

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083121\
 Data File : VN068370.D
 Acq On : 31 Aug 2021 15:34
 Operator : JC/MD
 Sample : M3593-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 01 02:06:40 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083021W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 31 02:20:58 2021
 Response via : Initial Calibration

Compound	R.T.	T.Q	Ion	Response	Conc	Units	Dev(Min)

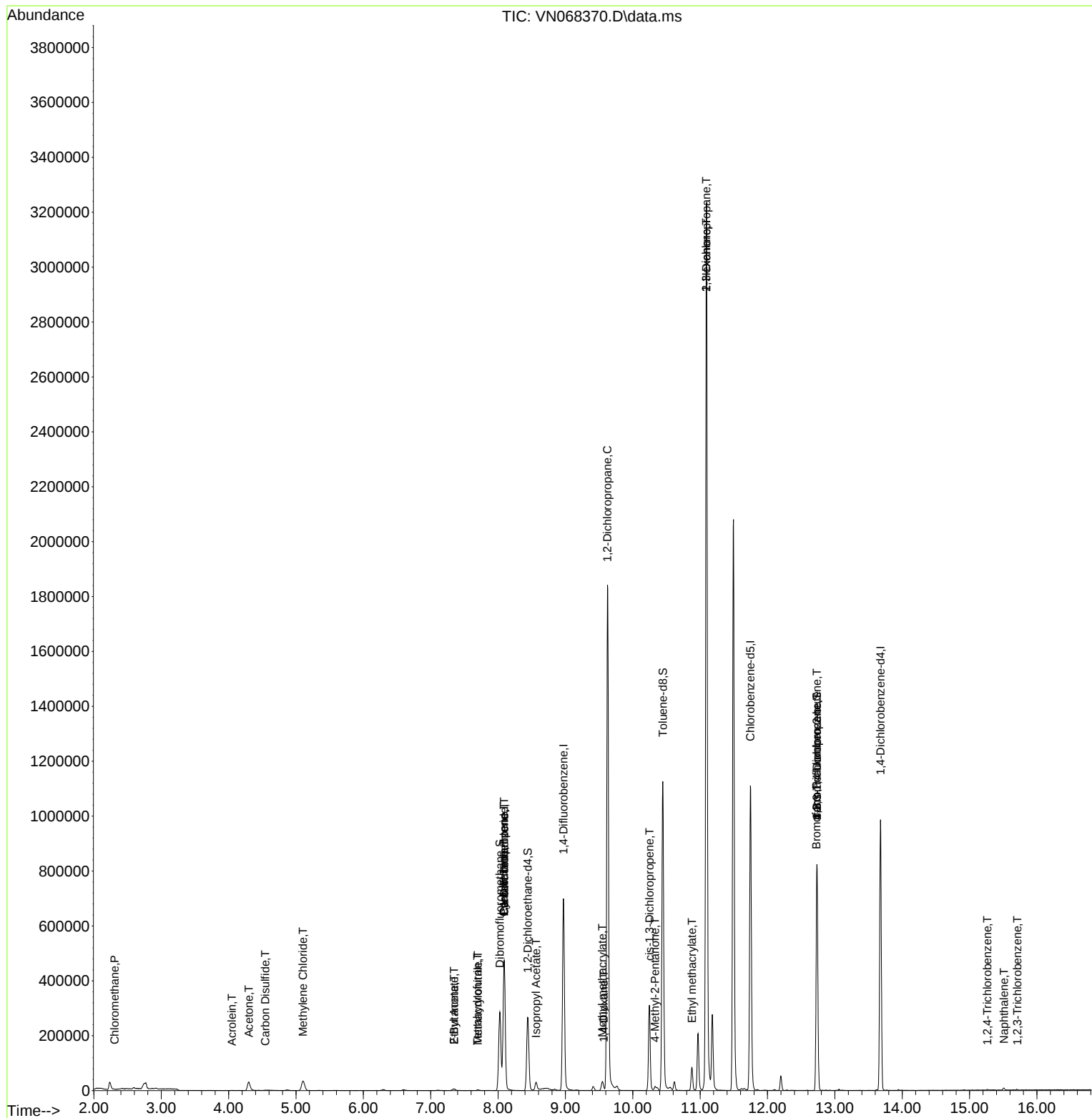
Internal Standards							
1) Pentafluorobenzene	8.091	168		399109	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114		662639	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117		716150	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152		292413	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.440	65		228004	55.970	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	111.940%	
35) Dibromofluoromethane	8.027	113		207956	49.498	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	99.000%	
50) Toluene-d8	10.446	98		829123	52.719	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	105.440%	
62) 4-Bromofluorobenzene	12.734	95		279957	54.241	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	108.480%	
Target Compounds							
						Qvalue	
3) Chloromethane	2.306	50		1151	0.331	ug/l	94
5) Bromomethane	2.859	94		941	Below Cal		94
13) Acrolein	4.049	56		397	1.147	ug/l #	66
16) Acetone	4.299	43		55955	40.208	ug/l	99
17) Carbon Disulfide	4.546	76		2132	0.254	ug/l #	75
18) Methyl Acetate	4.862	43		2883	Below Cal	#	78
20) Methylene Chloride	5.103	84		31651	7.688	ug/l	96
25) 2-Butanone	7.346	43		10671	5.714	ug/l	100
29) Tetrahydrofuran	7.694	42		1055	0.881	ug/l #	53
31) Cyclohexane	8.088	56		6967	1.298	ug/l #	39
36) 1,1-Dichloropropene	8.088	75		26080	4.949	ug/l #	47
37) Ethyl Acetate	7.346	43		10671	2.431	ug/l #	65
38) Carbon Tetrachloride	8.091	117		37511	5.956	ug/l #	17
41) Methacrylonitrile	7.700	41		1319	0.641	ug/l #	15
43) Isopropyl Acetate	8.563	43		35771	5.036	ug/l #	85
45) 1,2-Dichloropropane	9.623	63		2473	0.654	ug/l #	42
48) Methyl methacrylate	9.547	41		7495	2.412	ug/l #	6
49) 1,4-Dioxane	9.572	88		112	1.529	ug/l #	32
51) 4-Methyl-2-Pentanone	10.331	43		7621	1.717	ug/l #	82
54) cis-1,3-Dichloropropene	10.247	75		61933	9.978	ug/l #	68
56) Ethyl methacrylate	10.878	69		703	1.763	ug/l #	1
57) 1,3-Dichloropropane	11.092	76		37312	5.604	ug/l #	42
59) 2-Hexanone	11.092	43		459902	148.837	ug/l #	48
71) Bromoform	12.728	173		1042	2.126	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75		140092	28.190	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75		140092	93.138	ug/l #	14
93) 1,2,4-Trichlorobenzene	15.263	180		1416	2.465	ug/l #	80
95) Naphthalene	15.509	128		7728	2.956	ug/l	97
96) 1,2,3-Trichlorobenzene	15.708	180		626	2.115	ug/l #	22

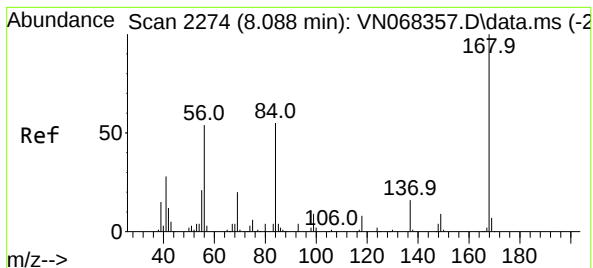
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 31 02:20:58 2021
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.091 min Scan# 2275

Delta R.T. 0.003 min

Lab File: VN068370.D

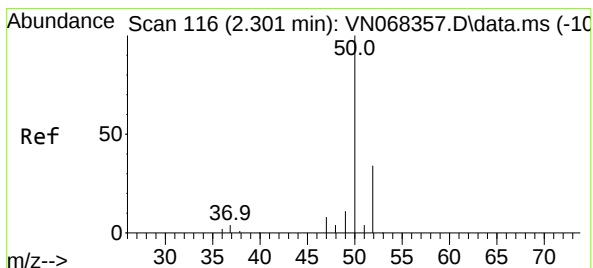
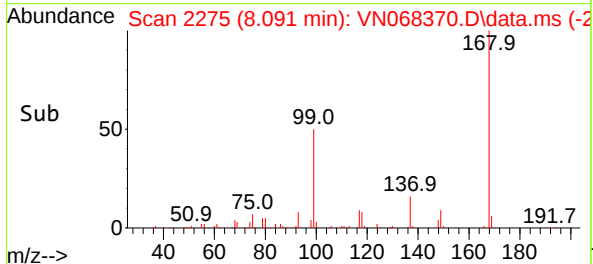
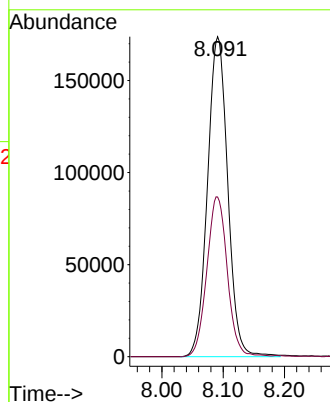
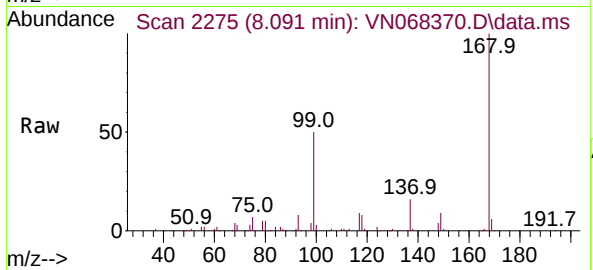
Acq: 31 Aug 2021 15:34

Tgt Ion:168 Resp: 399109

Ion Ratio Lower Upper

168 100

99 49.9 38.6 57.8



#3

Chloromethane

Concen: 0.331 ug/l

RT: 2.306 min Scan# 118

Delta R.T. 0.005 min

Lab File: VN068370.D

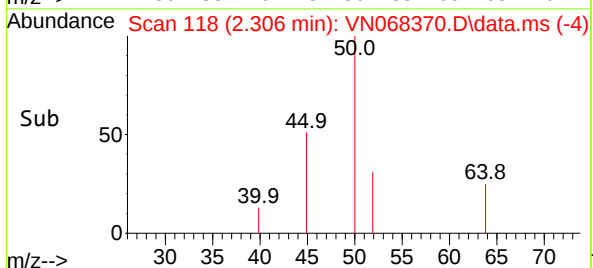
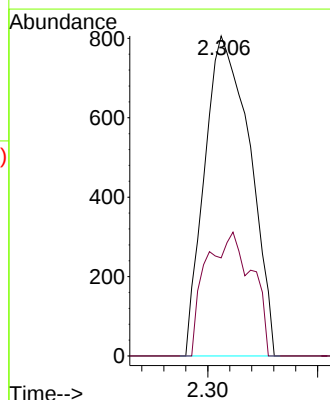
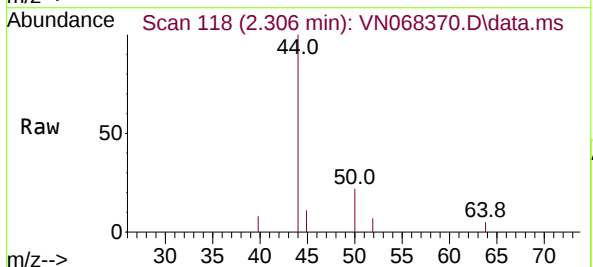
Acq: 31 Aug 2021 15:34

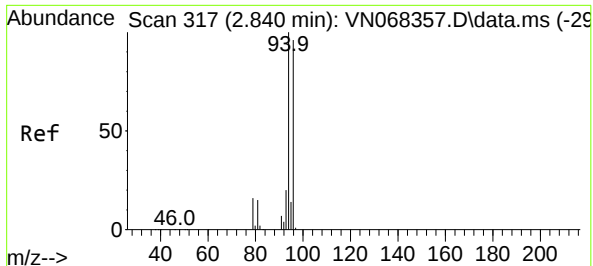
Tgt Ion: 50 Resp: 1151

Ion Ratio Lower Upper

50 100

52 30.6 27.1 40.7

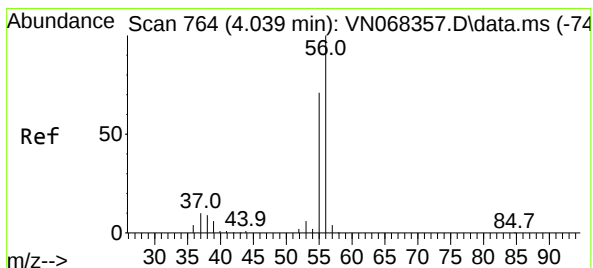
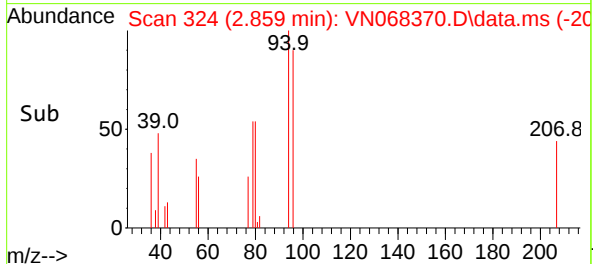
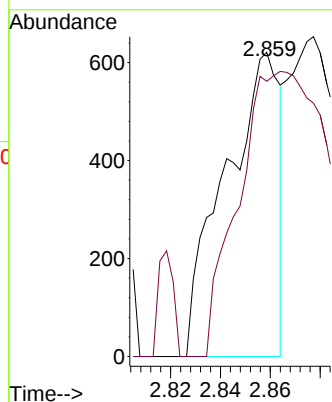
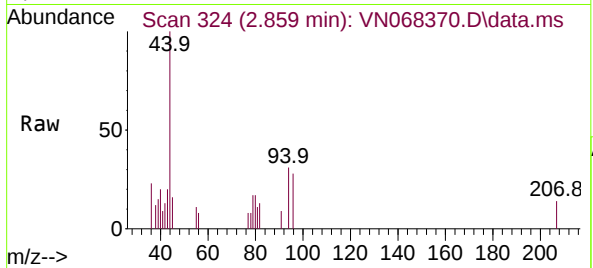




#5
Bromomethane
Concen: Below Cal
RT: 2.859 min Scan# 324
Delta R.T. 0.019 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

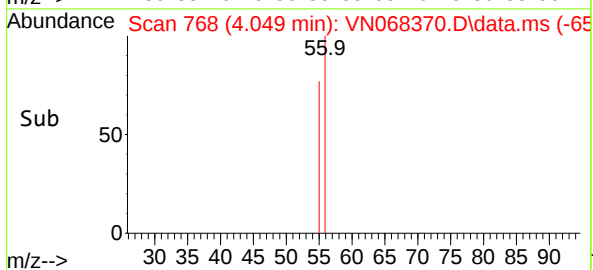
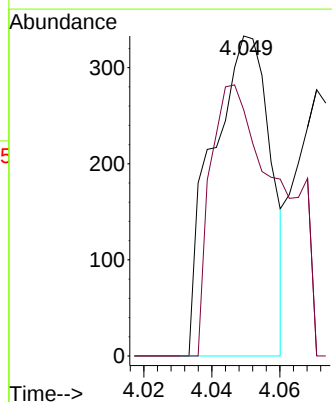
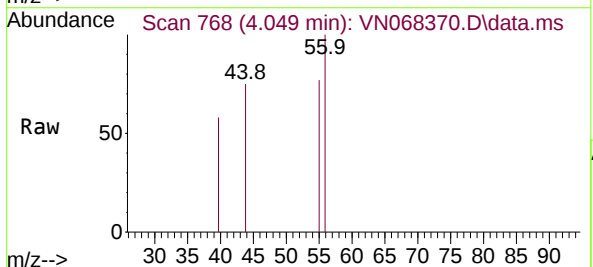
Instrument :
MSVOA_N
ClientSampled :

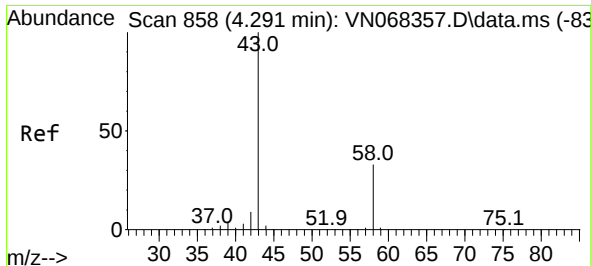
Tgt Ion: 94 Resp: 941
Ion Ratio Lower Upper
94 100
96 90.5 77.1 115.7



#13
Acrolein
Concen: 1.147 ug/l
RT: 4.049 min Scan# 768
Delta R.T. 0.011 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 56 Resp: 397
Ion Ratio Lower Upper
56 100
55 102.5 58.9 88.3#

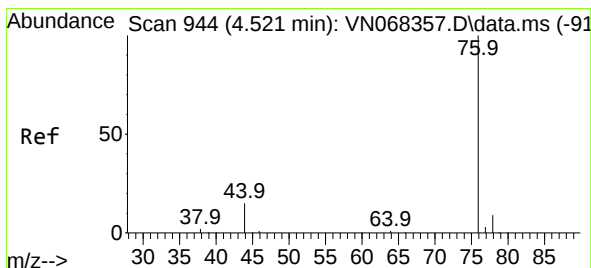
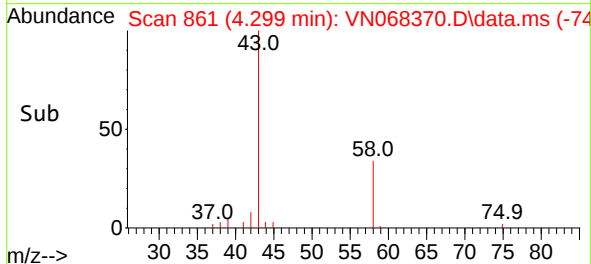
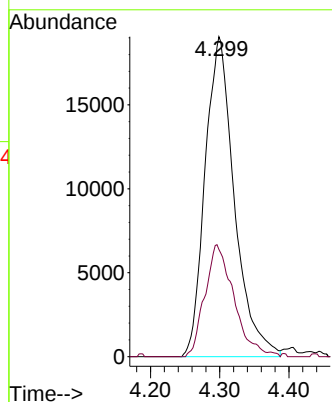
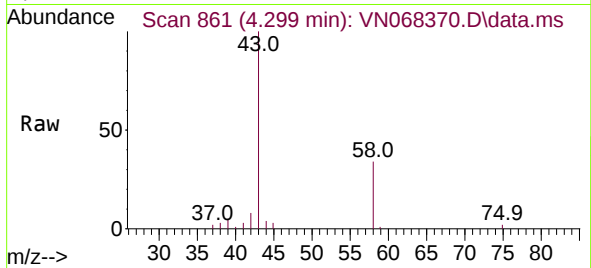




#16
Acetone
Concen: 40.208 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.008 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

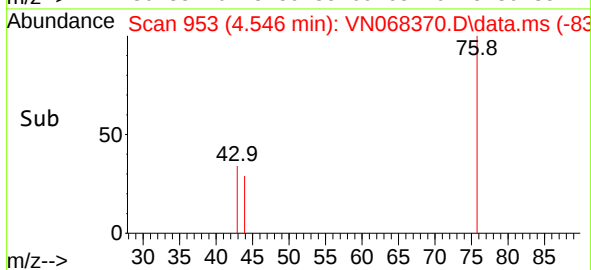
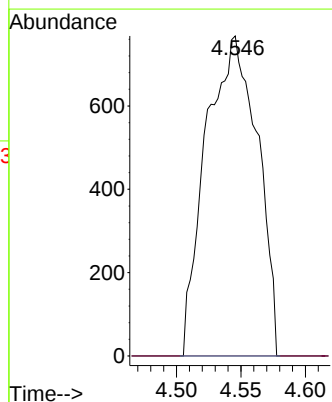
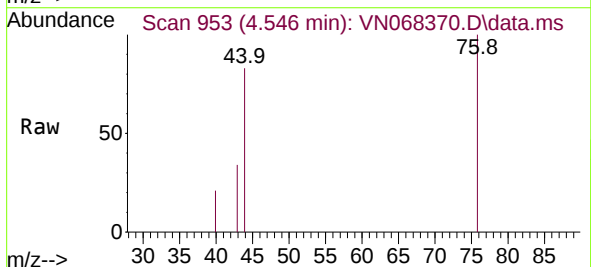
Instrument :
MSVOA_N
ClientSampled :

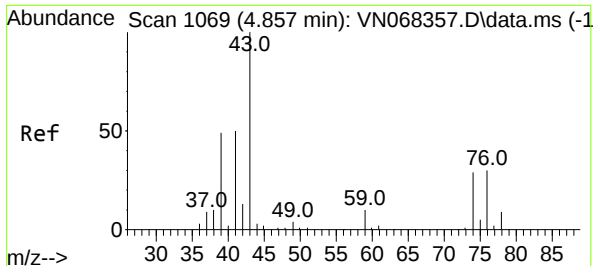
Tgt Ion: 43 Resp: 55955
Ion Ratio Lower Upper
43 100
58 33.5 26.3 39.5



#17
Carbon Disulfide
Concen: 0.254 ug/l
RT: 4.546 min Scan# 953
Delta R.T. 0.024 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 76 Resp: 2132
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

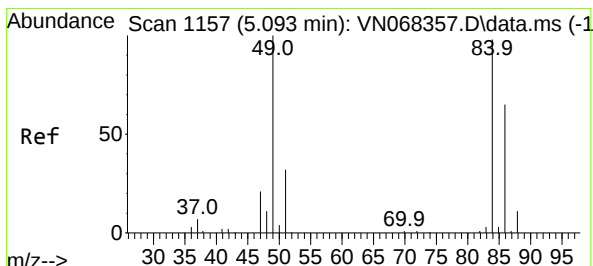
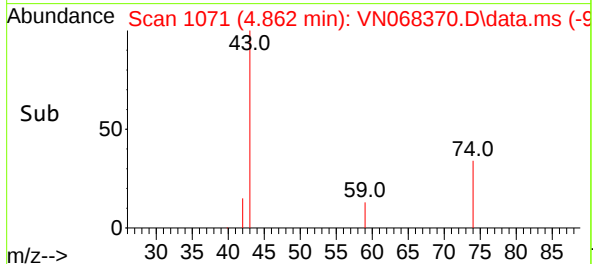
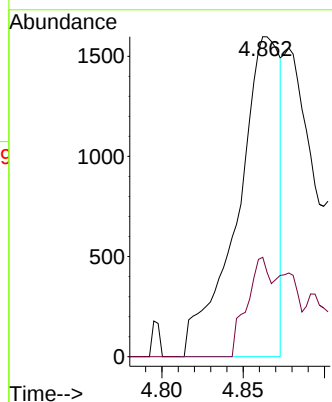
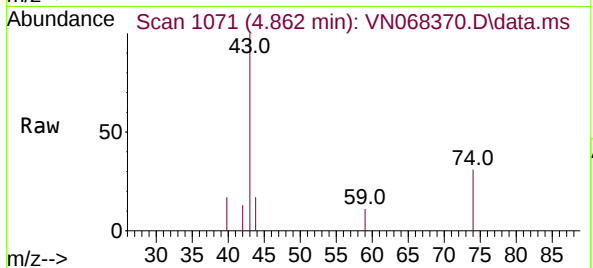




#18
Methyl Acetate
Concen: Below Cal
RT: 4.862 min Scan# 1071
Delta R.T. 0.005 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

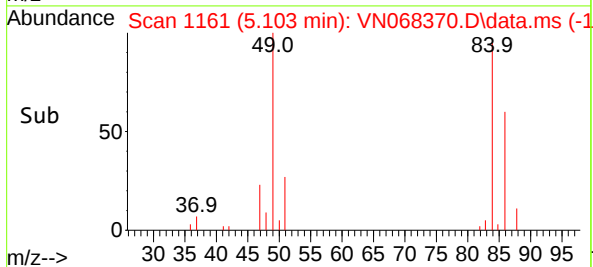
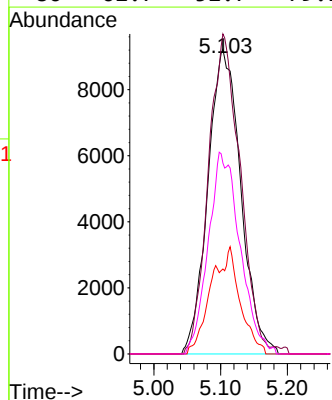
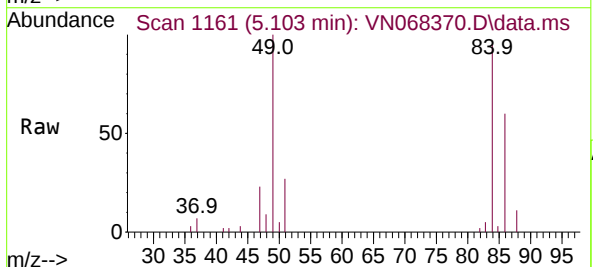
Instrument :
MSVOA_N
ClientSampled :

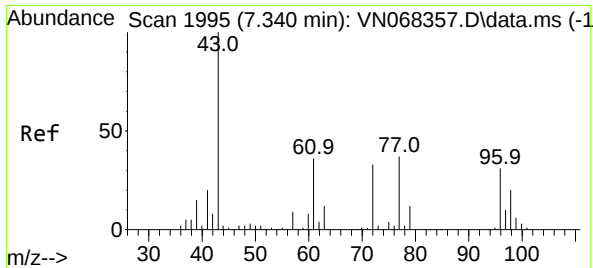
Tgt Ion: 43 Resp: 2883
Ion Ratio Lower Upper
43 100
74 17.1 23.0 34.4#



#20
Methylene Chloride
Concen: 7.688 ug/l
RT: 5.103 min Scan# 1161
Delta R.T. 0.010 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 84 Resp: 31651
Ion Ratio Lower Upper
84 100
49 105.1 81.8 122.6
51 27.9 26.3 39.5
86 62.7 52.7 79.1

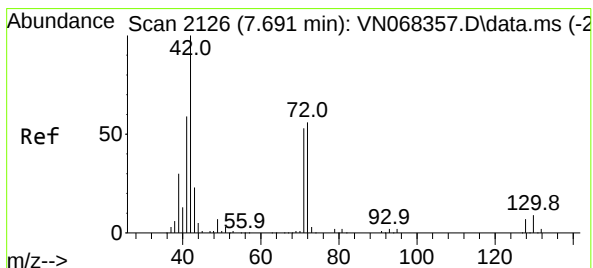
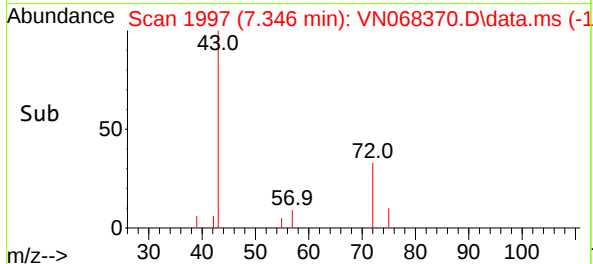
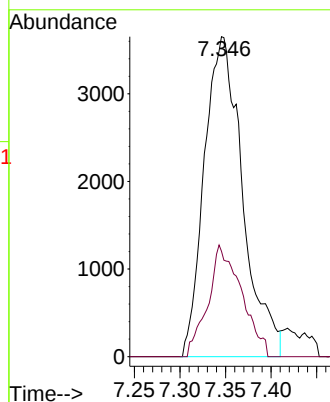
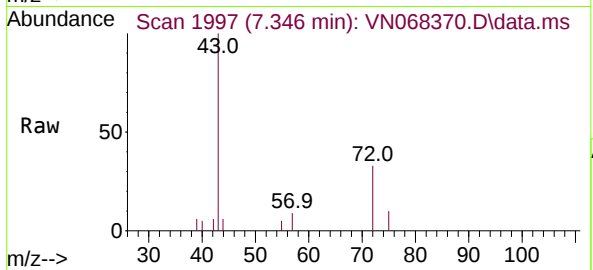




#25
2-Butanone
Concen: 5.714 ug/l
RT: 7.346 min Scan# 1997
Delta R.T. 0.005 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

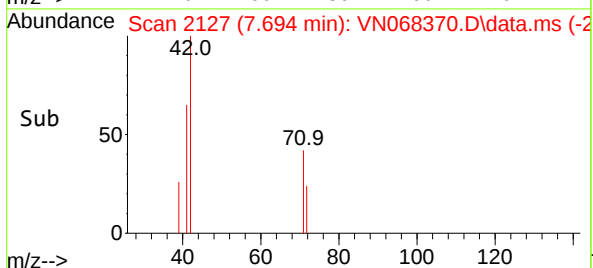
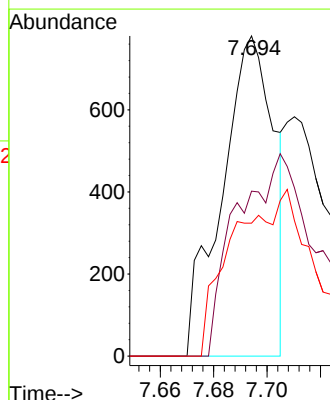
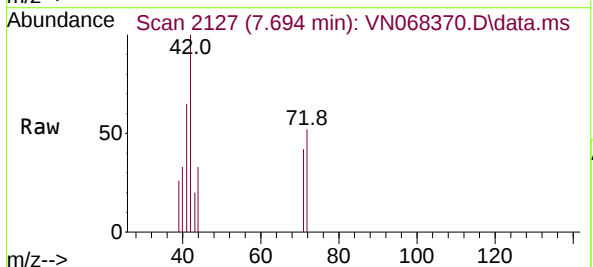
Instrument :
MSVOA_N
ClientSampled :

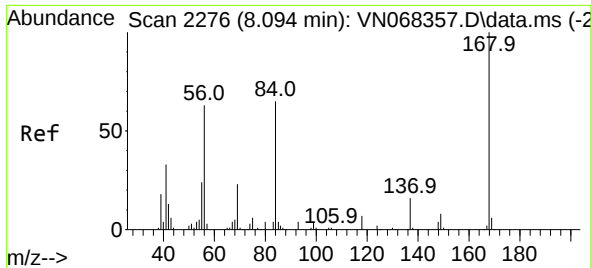
Tgt Ion: 43 Resp: 10671
Ion Ratio Lower Upper
43 100
72 33.0 26.5 39.7



#29
Tetrahydrofuran
Concen: 0.881 ug/l
RT: 7.694 min Scan# 2127
Delta R.T. 0.003 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 42 Resp: 1055
Ion Ratio Lower Upper
42 100
72 94.2 44.0 66.0#
71 81.1 42.6 63.8#

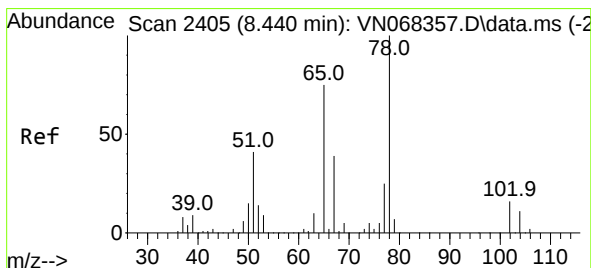
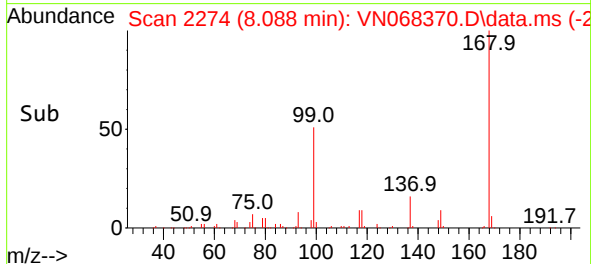
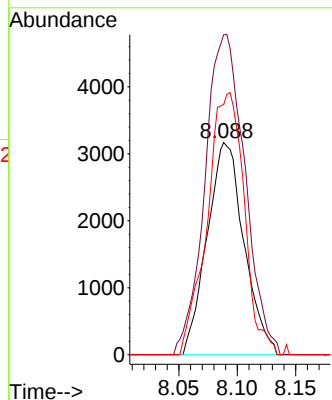
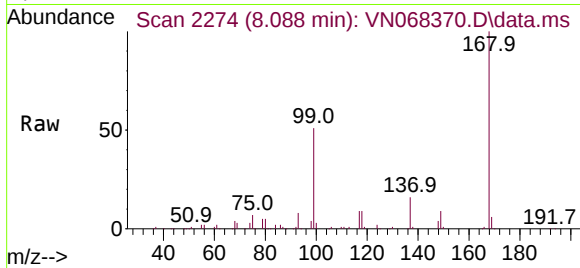




#31
Cyclohexane
Concen: 1.298 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.005 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

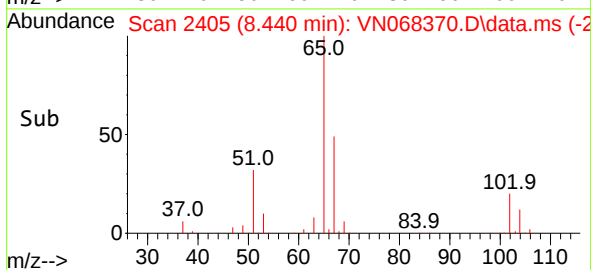
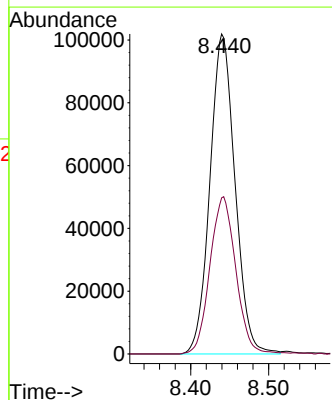
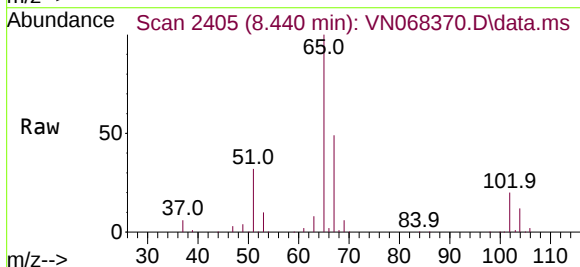
Instrument :
MSVOA_N
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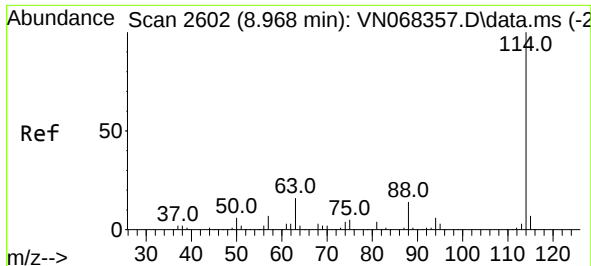
Tgt Ion: 56 Resp: 6967
Ion Ratio Lower Upper
56 100
69 150.8 29.8 44.6#
84 117.9 82.6 124.0



#33
1,2-Dichloroethane-d4
Concen: 55.970 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 65 Resp: 228004
Ion Ratio Lower Upper
65 100
67 50.7 0.0 105.8

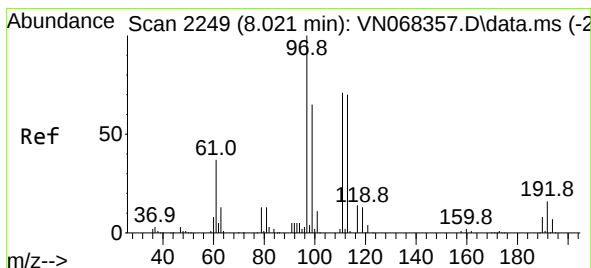
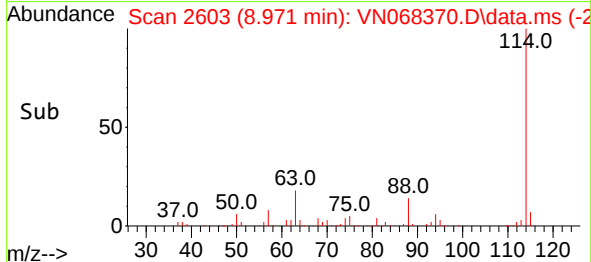
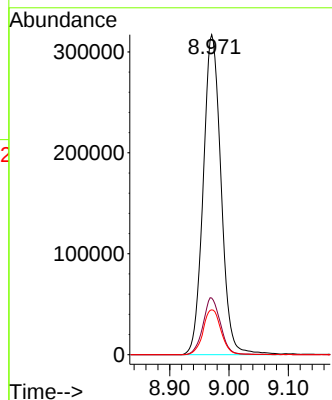
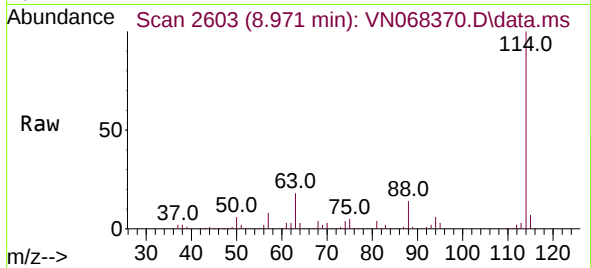




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

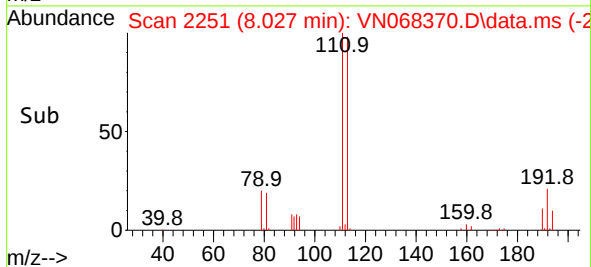
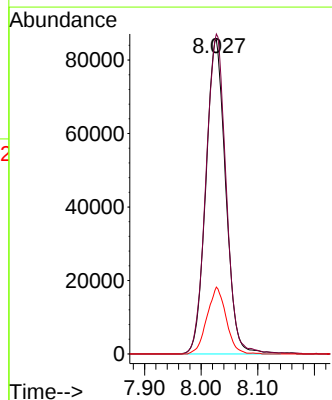
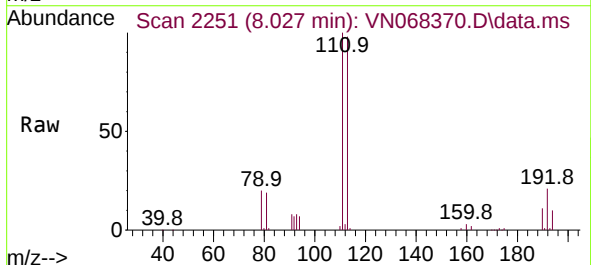
Instrument :
MSVOA_N
ClientSampled :

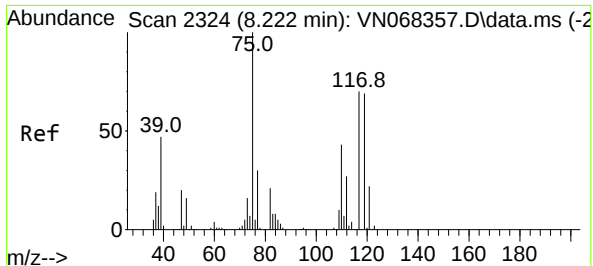
Tgt Ion:114 Resp: 662639
Ion Ratio Lower Upper
114 100
63 17.7 0.0 32.2
88 14.0 0.0 27.6



#35
Dibromofluoromethane
Concen: 49.498 ug/l
RT: 8.027 min Scan# 2251
Delta R.T. 0.005 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion:113 Resp: 207956
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.4
192 20.4 18.1 27.1

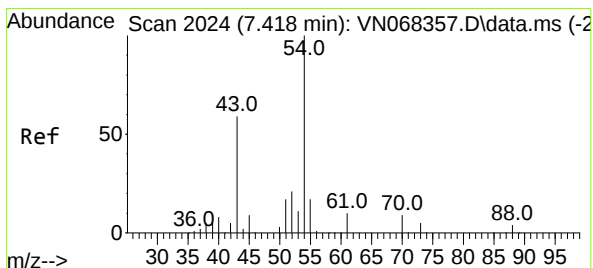
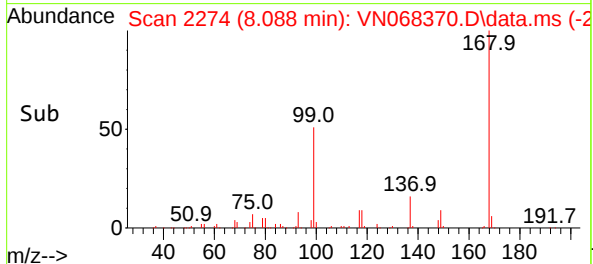
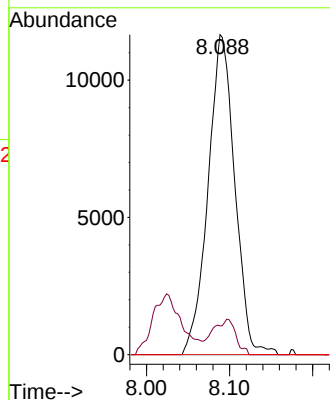
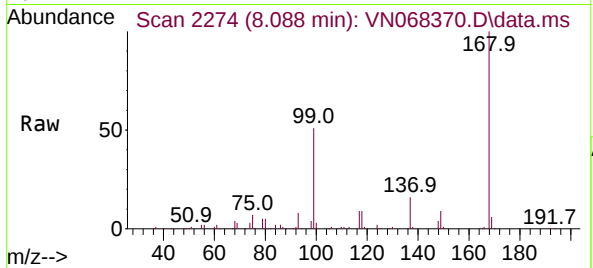




#36
 1,1-Dichloropropene
 Concen: 4.949 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.134 min
 Lab File: VN068370.D
 Acq: 31 Aug 2021 15:34

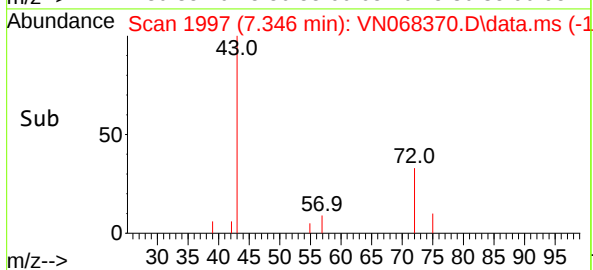
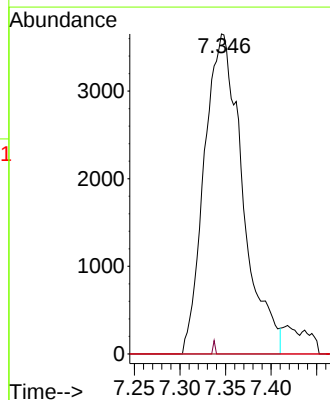
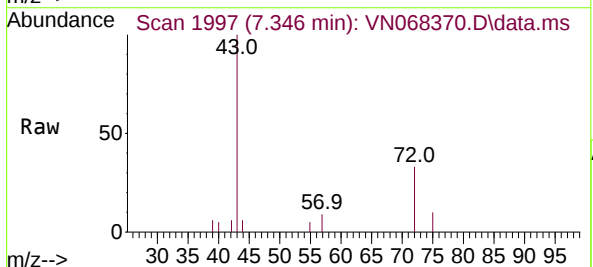
Instrument :
 MSVOA_N
 ClientSampled :

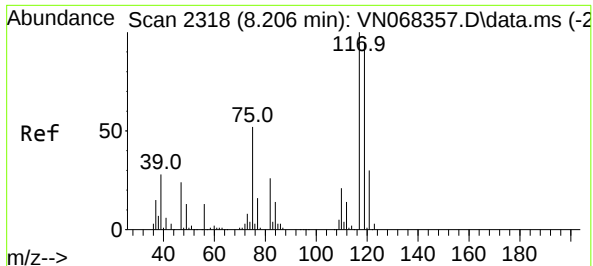
Tgt Ion: 75 Resp: 26080
 Ion Ratio Lower Upper
 75 100
 110 9.5 20.8 62.2#
 77 0.0 24.4 36.6#



#37
 Ethyl Acetate
 Concen: 2.431 ug/l
 RT: 7.346 min Scan# 1997
 Delta R.T. -0.072 min
 Lab File: VN068370.D
 Acq: 31 Aug 2021 15:34

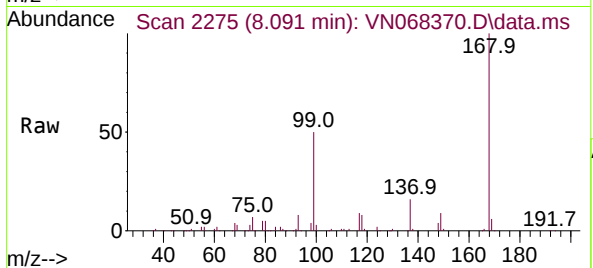
Tgt Ion: 43 Resp: 10671
 Ion Ratio Lower Upper
 43 100
 61 0.2 13.0 19.4#
 70 0.0 9.8 14.8#



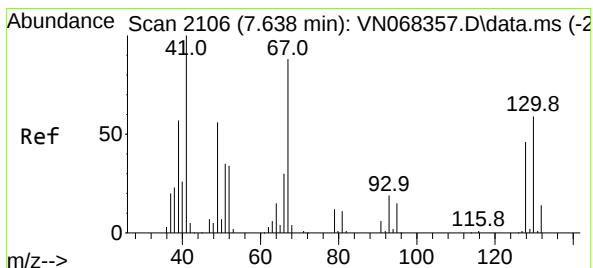
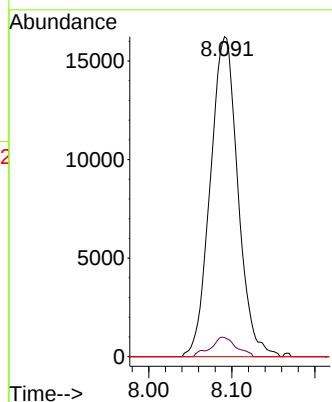
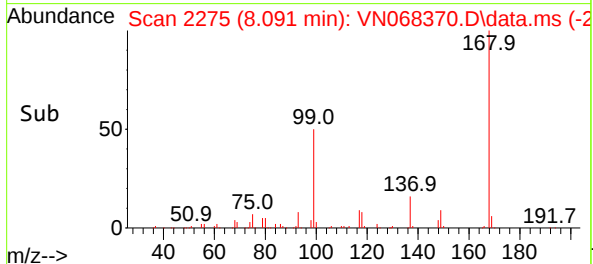


#38
Carbon Tetrachloride
Concen: 5.956 ug/l
RT: 8.091 min Scan# 2275
Delta R.T. -0.115 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

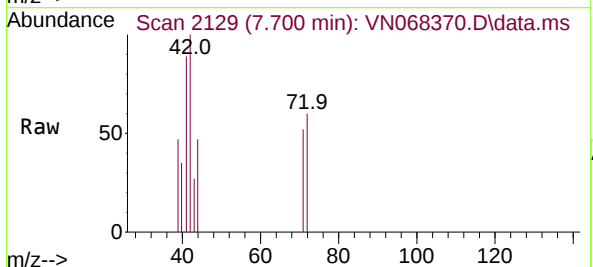
Instrument :
MSVOA_N
ClientSampled :



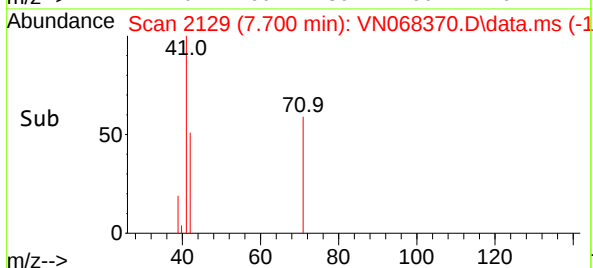
Tgt Ion:117 Resp: 37511
Ion Ratio Lower Upper
117 100
119 5.9 76.0 114.0#
121 0.0 24.2 36.2#

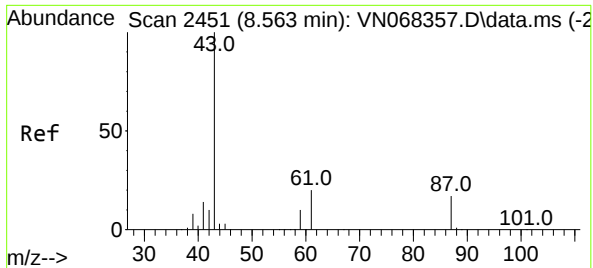


#41
Methacrylonitrile
Concen: 0.641 ug/l
RT: 7.700 min Scan# 2129
Delta R.T. 0.062 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34



Tgt Ion: 41 Resp: 1319
Ion Ratio Lower Upper
41 100
39 5.3 48.2 72.4#
67 0.0 80.8 121.2#
52 0.0 30.2 45.4#

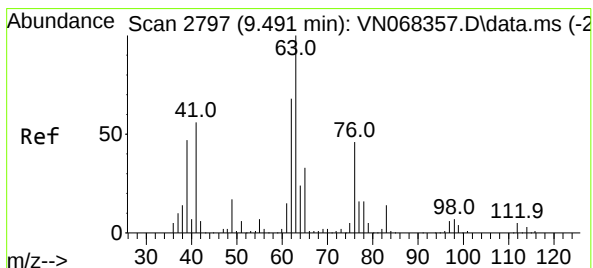
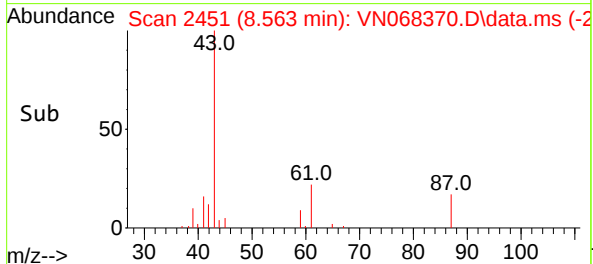
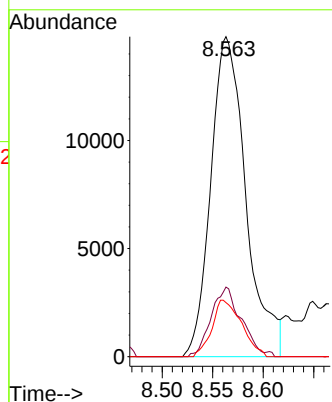
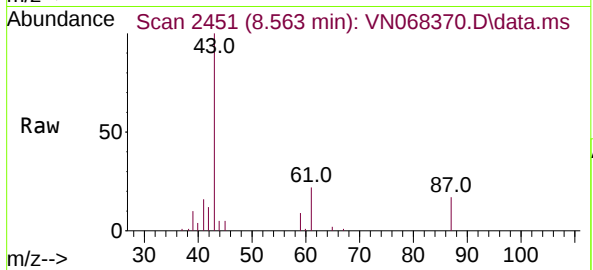




#43
Isopropyl Acetate
Concen: 5.036 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.000 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

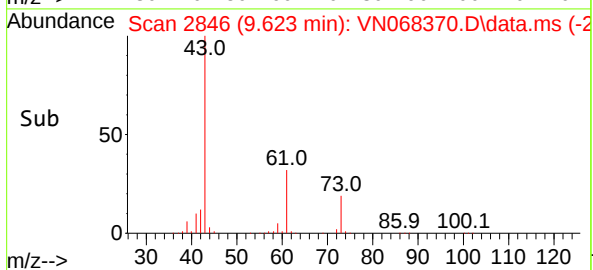
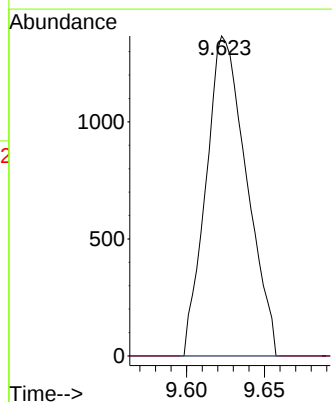
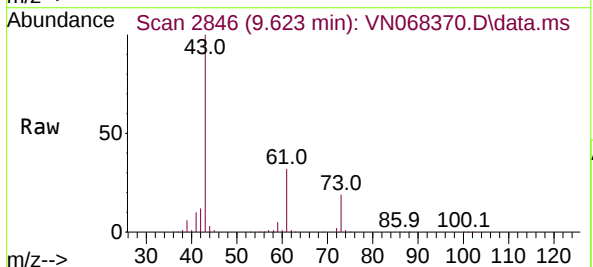
Instrument :
MSVOA_N
ClientSampleId :

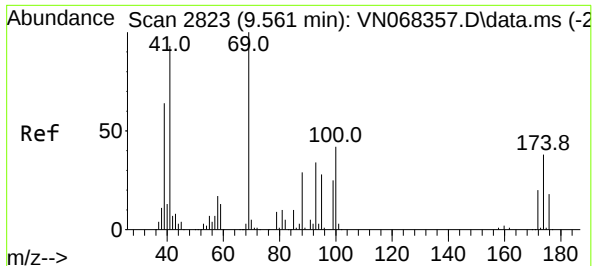
Tgt Ion: 43 Resp: 35771
Ion Ratio Lower Upper
43 100
61 18.5 23.4 35.0#
87 14.9 14.0 21.0



#45
1,2-Dichloropropane
Concen: 0.654 ug/l
RT: 9.623 min Scan# 2846
Delta R.T. 0.132 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 63 Resp: 2473
Ion Ratio Lower Upper
63 100
65 0.0 26.3 39.5#

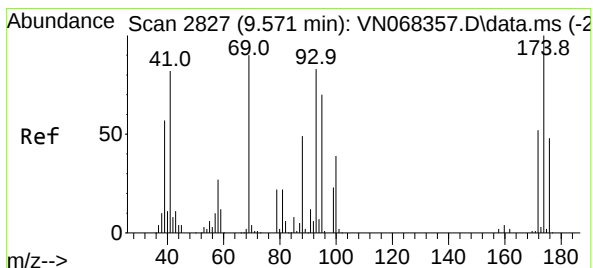
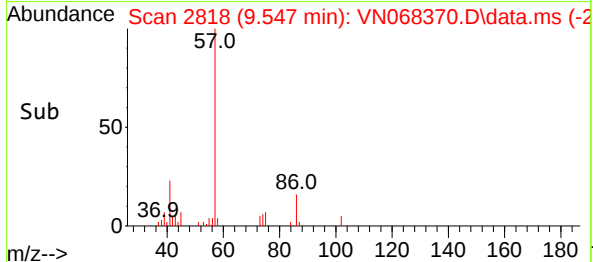
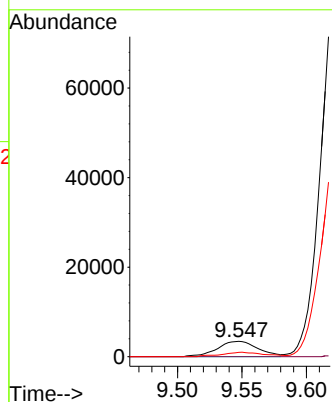
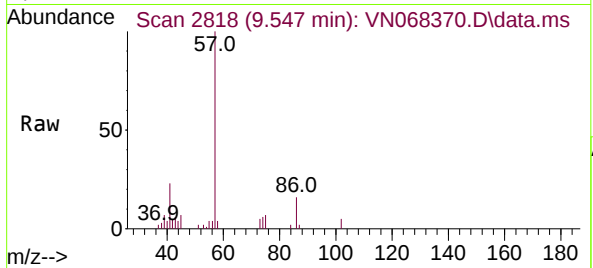




#48
Methyl methacrylate
Concen: 2.412 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.013 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

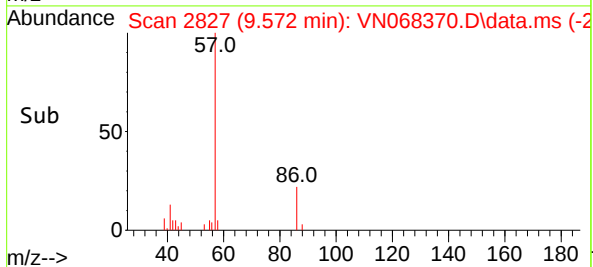
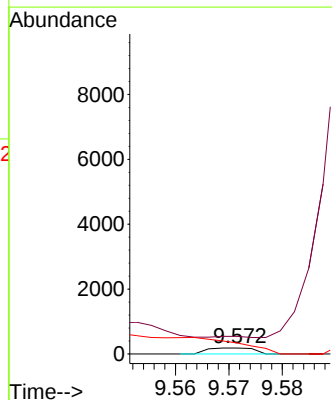
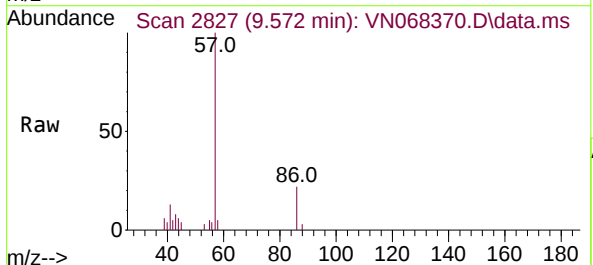
Instrument :
MSVOA_N
ClientSampled :

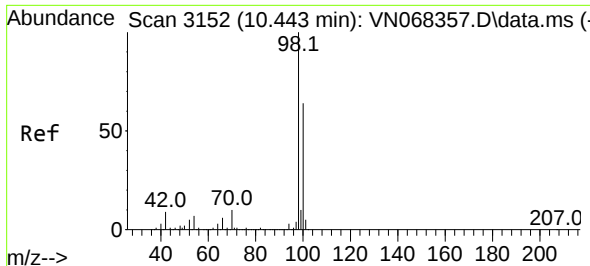
Tgt Ion: 41 Resp: 7495
Ion Ratio Lower Upper
41 100
69 0.0 83.8 125.8#
39 0.0 51.7 77.5#



#49
1,4-Dioxane
Concen: 1.529 ug/l
RT: 9.572 min Scan# 2827
Delta R.T. 0.000 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 88 Resp: 112
Ion Ratio Lower Upper
88 100
43 0.0 19.0 28.4#
58 0.0 44.7 67.1#

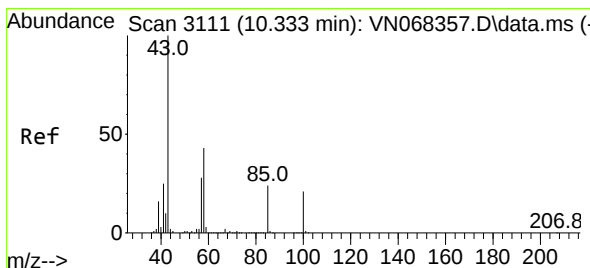
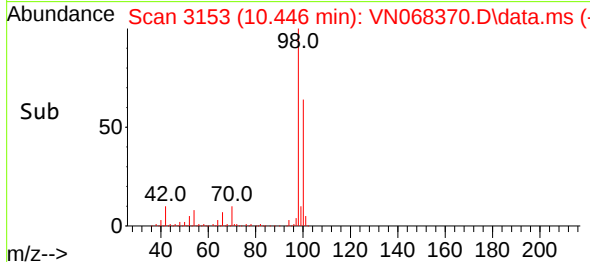
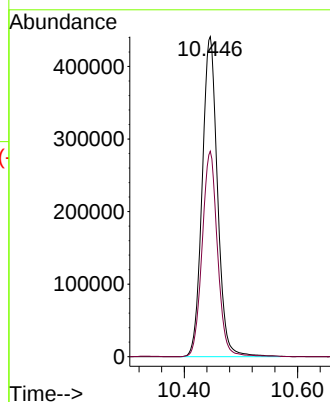
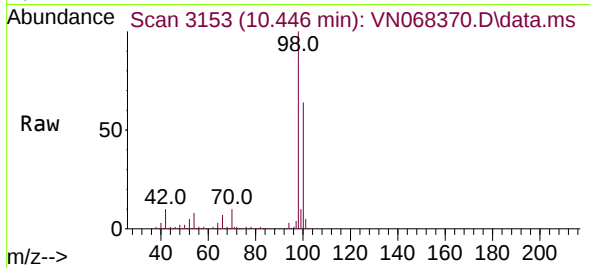




#50
Toluene-d8
Concen: 52.719 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

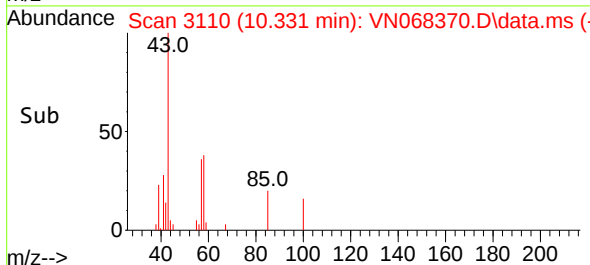
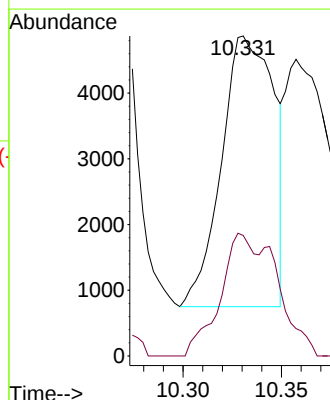
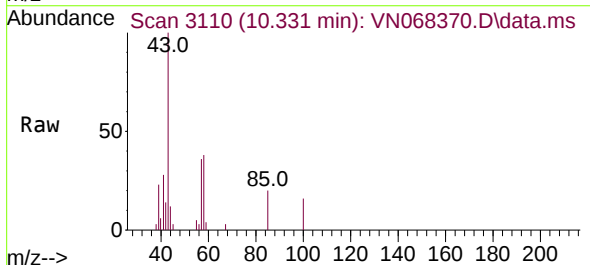
Instrument :
MSVOA_N
ClientSampled :

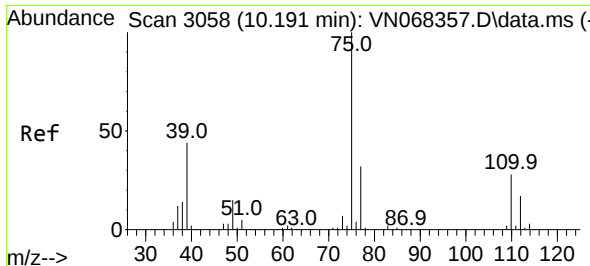
Tgt Ion: 98 Resp: 829123
Ion Ratio Lower Upper
98 100
100 64.3 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 1.717 ug/l
RT: 10.331 min Scan# 3110
Delta R.T. -0.003 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 43 Resp: 7621
Ion Ratio Lower Upper
43 100
58 31.7 34.4 51.6#

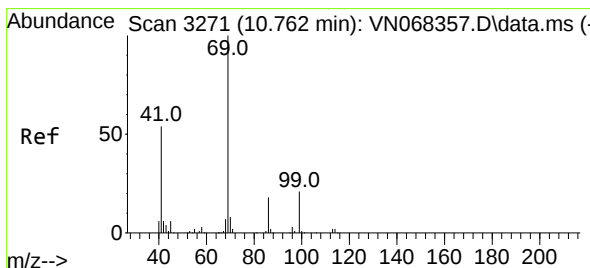
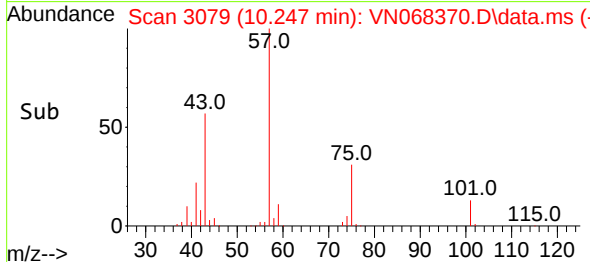
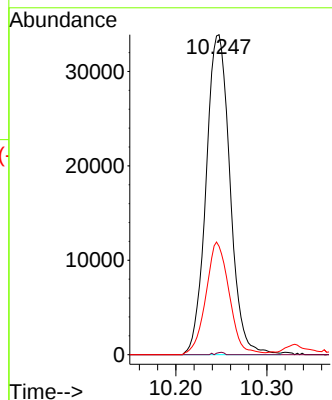
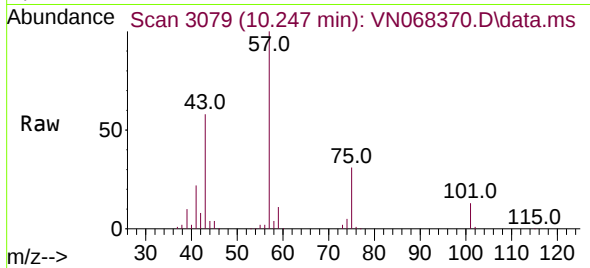




#54
 cis-1,3-Dichloropropene
 Concen: 9.978 ug/l
 RT: 10.247 min Scan# 3079
 Delta R.T. 0.056 min
 Lab File: VN068370.D
 Acq: 31 Aug 2021 15:34

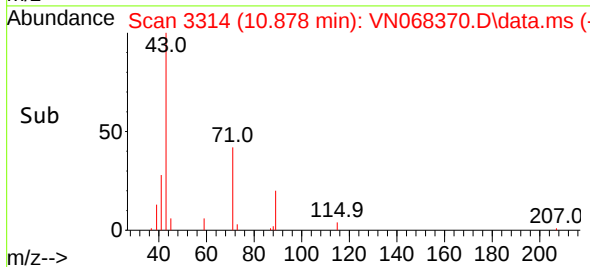
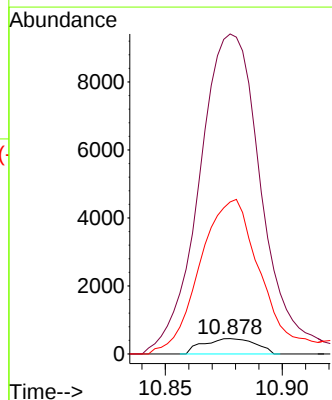
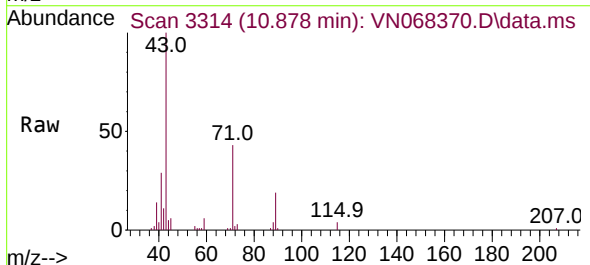
Instrument :
 MSVOA_N
 ClientSampled :

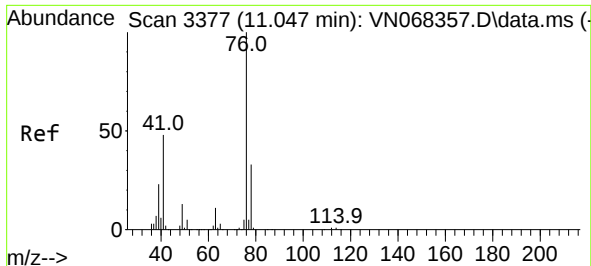
Tgt Ion: 75 Resp: 61933
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.0#
 39 33.8 35.0 52.4#



#56
 Ethyl methacrylate
 Concen: 1.763 ug/l
 RT: 10.878 min Scan# 3314
 Delta R.T. 0.116 min
 Lab File: VN068370.D
 Acq: 31 Aug 2021 15:34

Tgt Ion: 69 Resp: 703
 Ion Ratio Lower Upper
 69 100
 41 2476.8 43.0 64.6#
 39 1173.8 28.2 42.2#

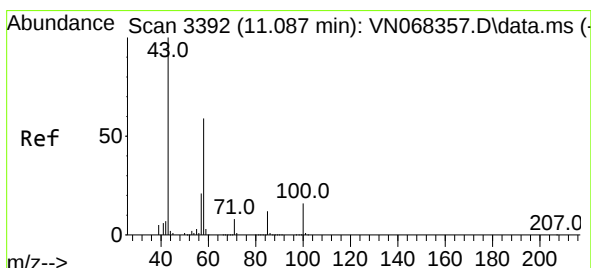
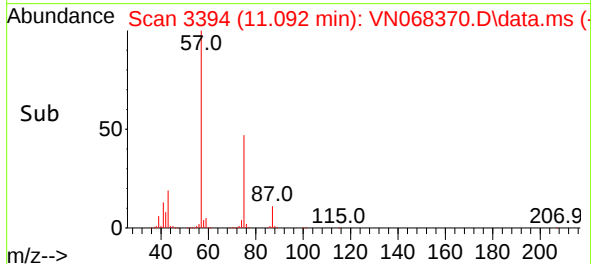
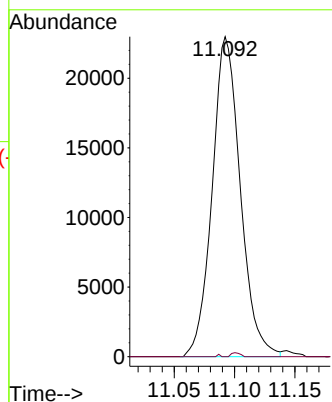
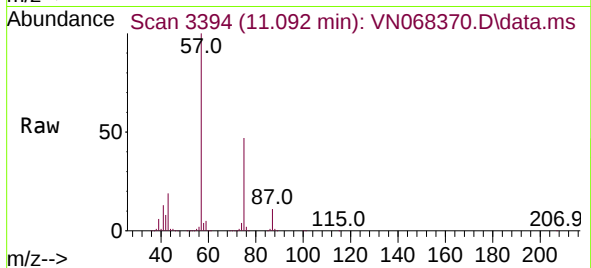




#57
1,3-Dichloropropane
Concen: 5.604 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

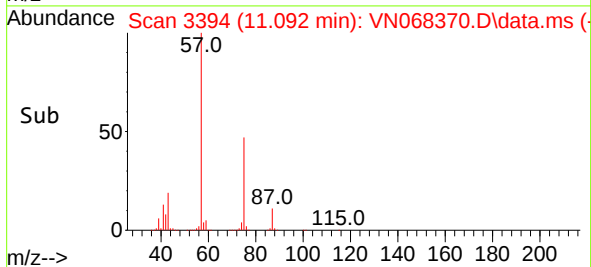
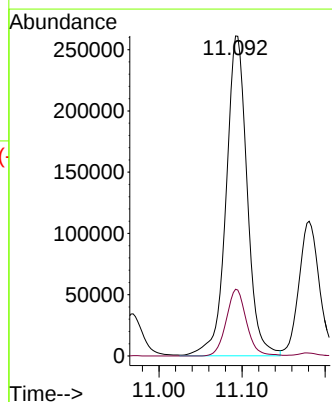
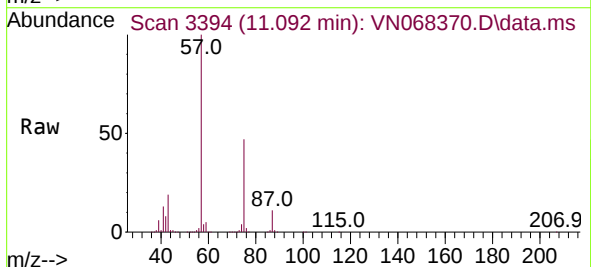
Instrument :
MSVOA_N
ClientSampled :

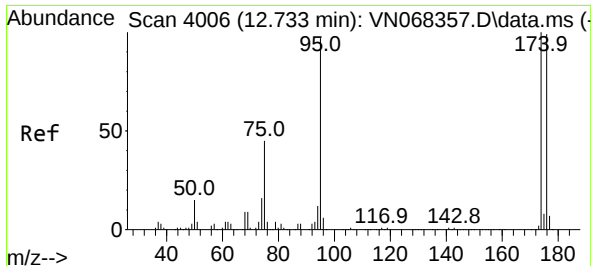
Tgt Ion: 76 Resp: 37312
Ion Ratio Lower Upper
76 100
78 0.1 26.2 39.4#



#59
2-Hexanone
Concen: 148.837 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 43 Resp: 459902
Ion Ratio Lower Upper
43 100
58 20.1 29.8 89.4#

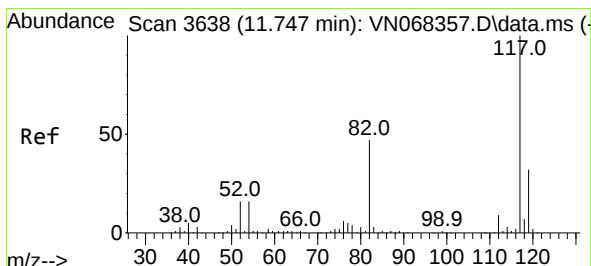
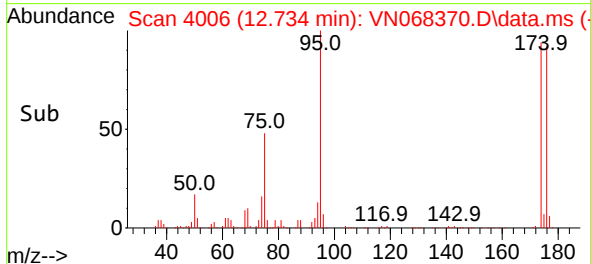
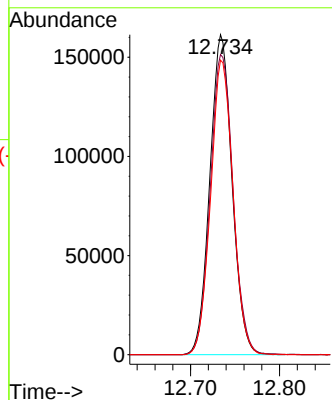
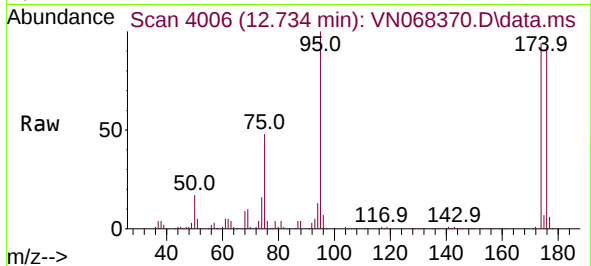




#62
4-Bromofluorobenzene
Concen: 54.241 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

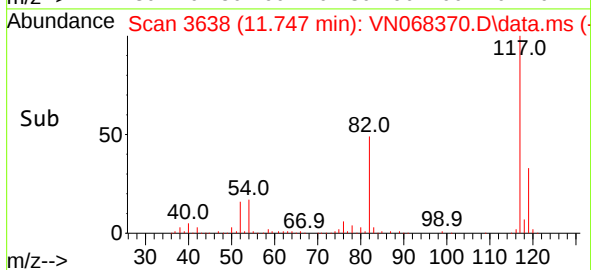
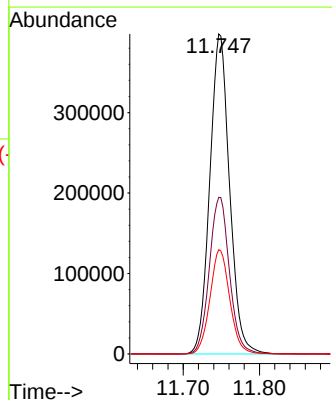
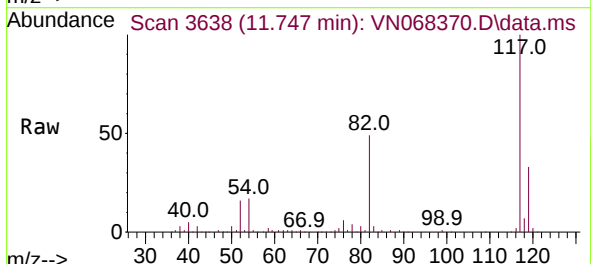
Instrument :
MSVOA_N
ClientSampled :

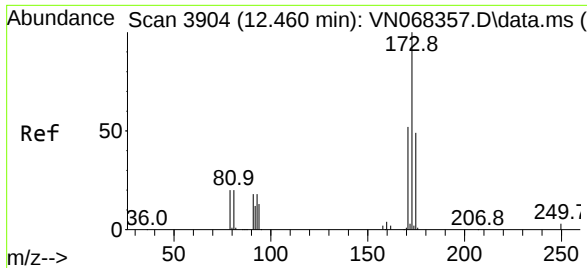
Tgt Ion: 95 Resp: 279957
Ion Ratio Lower Upper
95 100
174 96.4 0.0 211.4
176 92.6 0.0 205.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion: 117 Resp: 716150
Ion Ratio Lower Upper
117 100
82 48.9 37.8 56.6
119 32.6 26.0 39.0

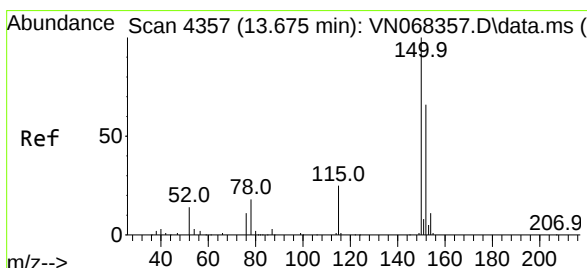
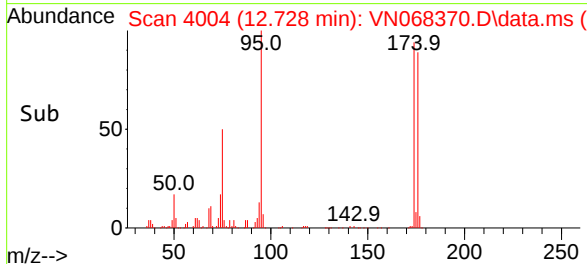
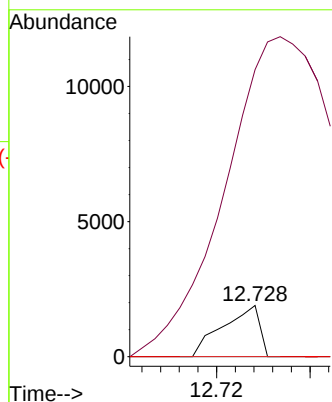
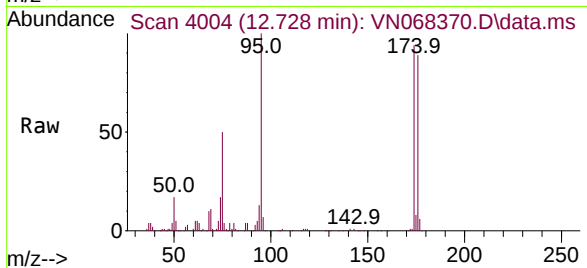




#71
Bromoform
Concen: 2.126 ug/l
RT: 12.728 min Scan# 4004
Delta R.T. 0.268 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

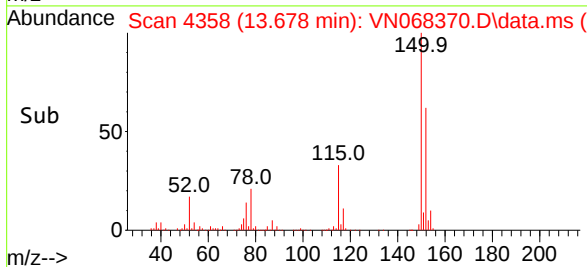
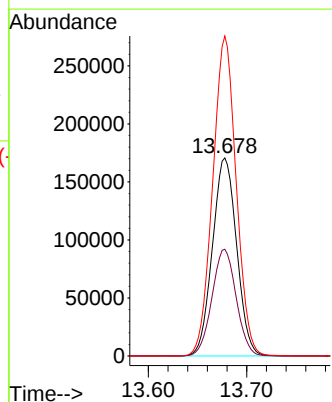
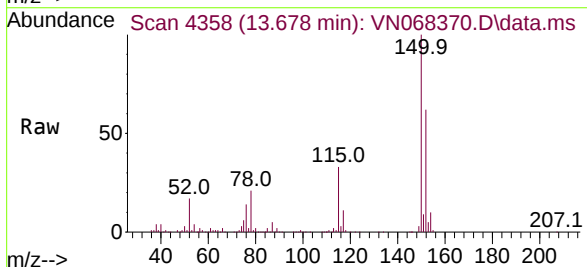
Instrument :
MSVOA_N
ClientSampled :

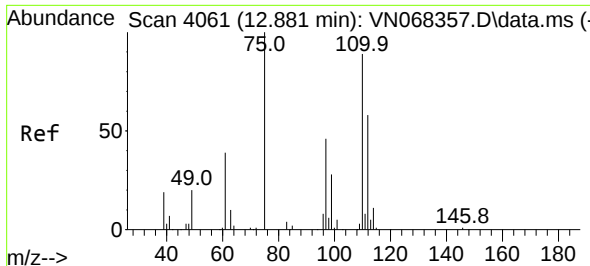
Tgt Ion:173 Resp: 1042
Ion Ratio Lower Upper
173 100
175 1826.7 24.0 72.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

Tgt Ion:152 Resp: 292413
Ion Ratio Lower Upper
152 100
115 53.9 26.1 78.3
150 156.5 0.0 348.4

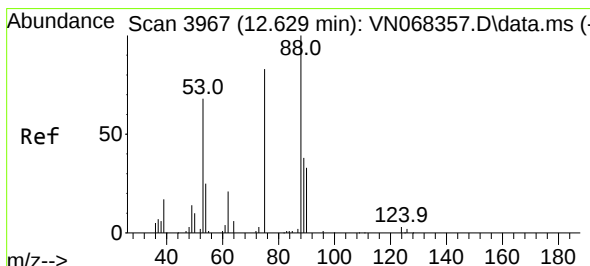
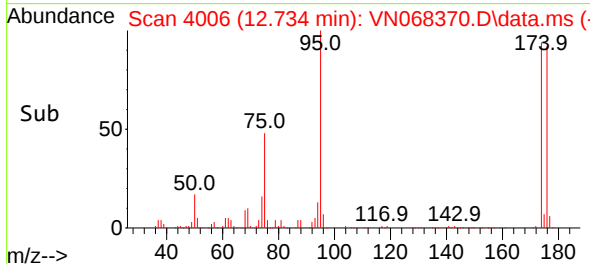
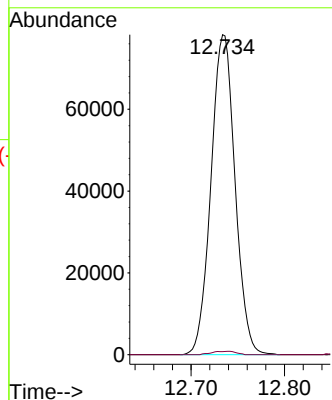
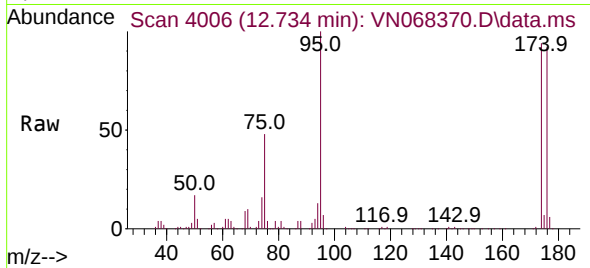




#76
1,2,3-Trichloropropane
Concen: 28.190 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

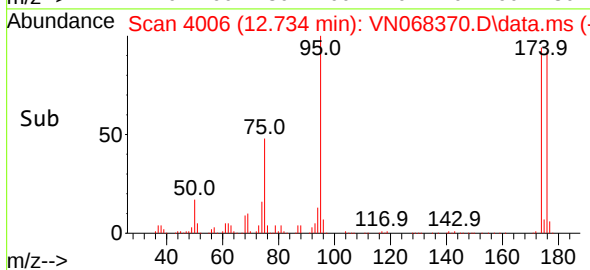
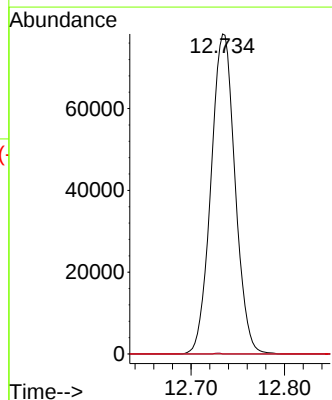
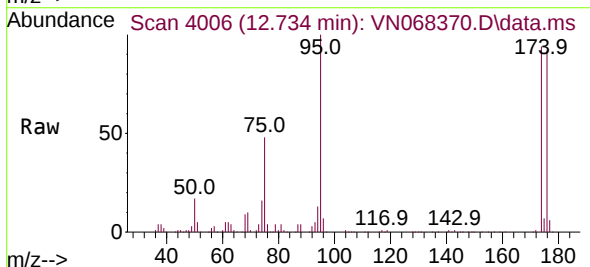
Instrument :
MSVOA_N
ClientSampled :

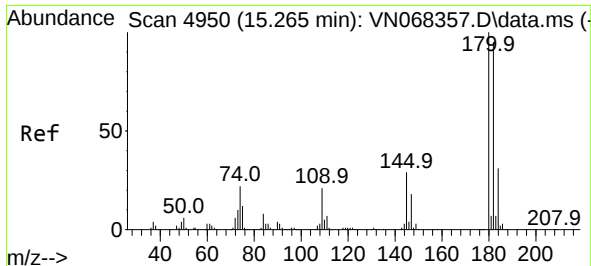
Tgt Ion: 75 Resp: 140092
Ion Ratio Lower Upper
75 100
77 1.1 108.3 324.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.138 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

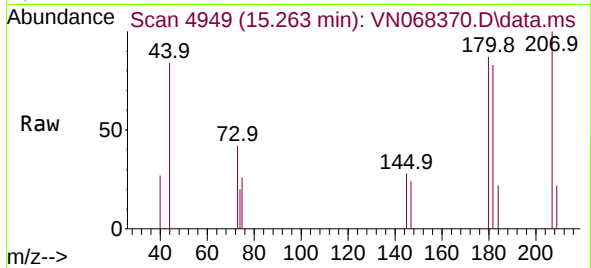
Tgt Ion: 75 Resp: 140092
Ion Ratio Lower Upper
75 100
53 0.1 69.4 104.2#
89 0.0 39.8 59.6#



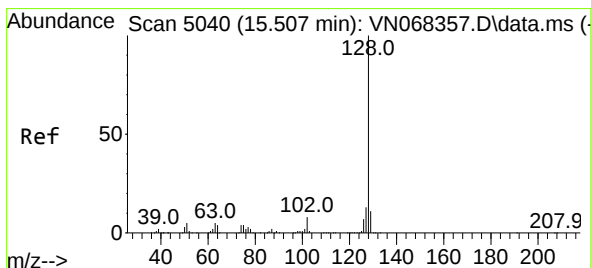
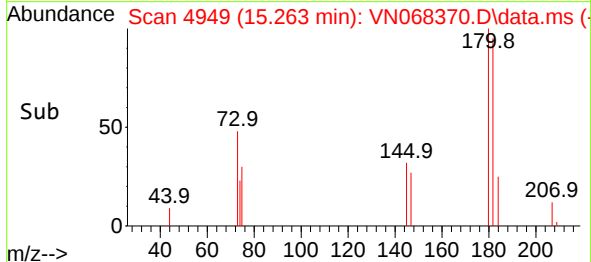
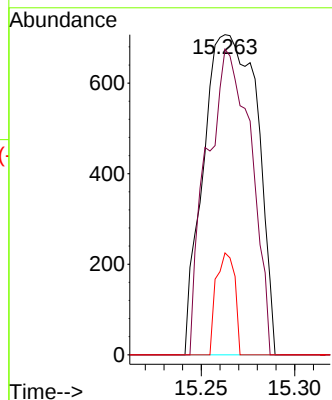


#93
1,2,4-Trichlorobenzene
Concen: 2.465 ug/l
RT: 15.263 min Scan# 4949
Delta R.T. -0.002 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34

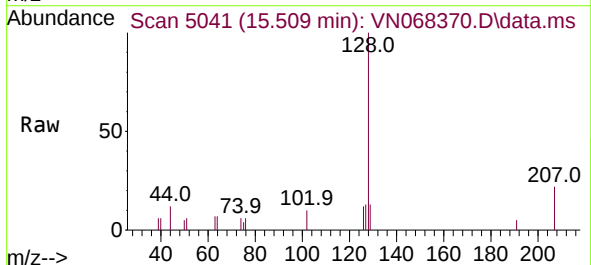
Instrument :
MSVOA_N
ClientSampled :



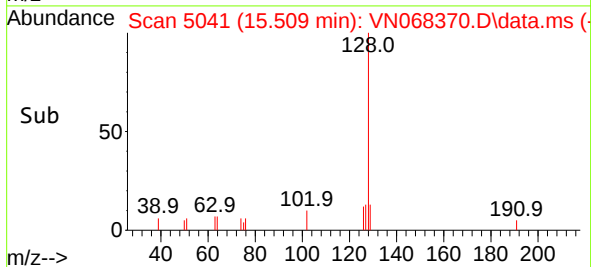
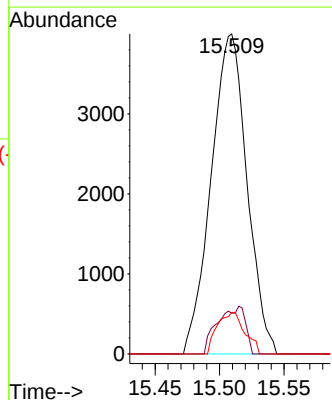
Tgt Ion:180 Resp: 1416
Ion Ratio Lower Upper
180 100
182 78.5 46.9 140.7
145 10.9 14.1 42.3#

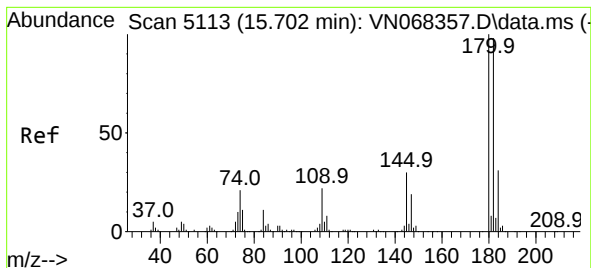


#95
Naphthalene
Concen: 2.956 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068370.D
Acq: 31 Aug 2021 15:34



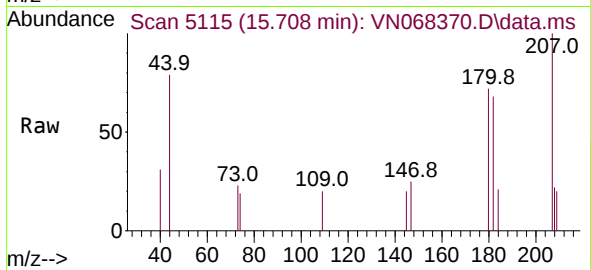
Tgt Ion:128 Resp: 7728
Ion Ratio Lower Upper
128 100
127 11.5 10.6 16.0
129 10.0 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 2.115 ug/l
 RT: 15.708 min Scan# 5115
 Delta R.T. 0.006 min
 Lab File: VN068370.D
 Acq: 31 Aug 2021 15:34

Instrument :
 MSVOA_N
 ClientSampled :



Tgt Ion:180	Resp:	626
Ion	Ratio	Lower Upper
180	100	
182	178.0	47.5 142.6#
145	0.0	14.7 44.1#

