

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110221\
 Data File : VN069343.D
 Acq On : 2 Nov 2021 12:59
 Operator : JC/MD
 Sample : M4438-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

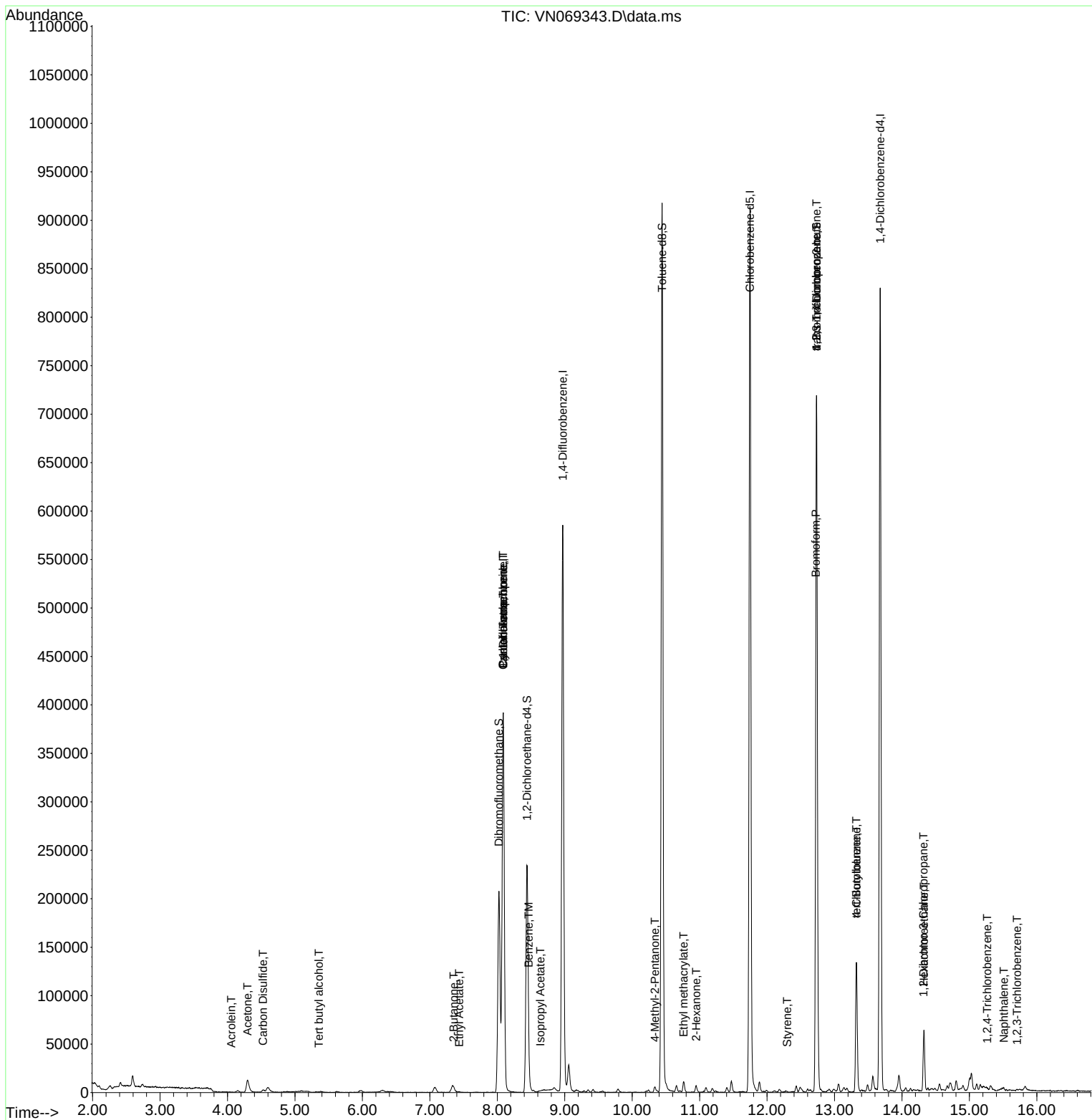
Instrument :
 MSVOA_N
 ClientSampleId :

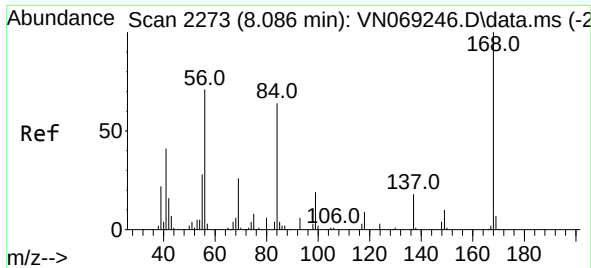
Quant Time: Nov 03 00:47:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102821W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 28 16:09:15 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.088	168	289052	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	518976	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	543273	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	223679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	204674	49.052	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.100%		
35) Dibromofluoromethane	8.024	113	152541	47.152	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.300%		
50) Toluene-d8	10.443	98	659429	50.980	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.960%		
62) 4-Bromofluorobenzene	12.733	95	261437	53.562	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	107.120%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.309	50	366	Below Cal	#	42
11) Tert butyl alcohol	5.355	59	367	13.835	ug/l #	72
13) Acrolein	4.055	56	51	0.278	ug/l #	13
16) Acetone	4.296	43	23921	13.456	ug/l	97
17) Carbon Disulfide	4.527	76	5503	0.795	ug/l	96
25) 2-Butanone	7.353	43	7102	4.224	ug/l #	87
31) Cyclohexane	8.088	56	7092	1.270	ug/l #	24
36) 1,1-Dichloropropene	8.088	75	24509	5.478	ug/l #	44
37) Ethyl Acetate	7.434	43	1036	0.203	ug/l #	68
38) Carbon Tetrachloride	8.086	117	30709	6.922	ug/l #	15
40) Benzene	8.464	78	5921	0.440	ug/l	95
43) Isopropyl Acetate	8.641	43	1373	0.612	ug/l #	55
51) 4-Methyl-2-Pentanone	10.336	43	4393	7.142	ug/l	90
56) Ethyl methacrylate	10.762	69	6741	2.685	ug/l	97
59) 2-Hexanone	10.950	43	5156	9.128	ug/l	69
70) Styrene	12.299	104	272	1.476	ug/l #	56
71) Bromoform	12.723	173	531	3.022	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	138352	23.517	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	138352	67.609	ug/l #	12
82) 4-Chlorotoluene	13.323	91	46751	3.536	ug/l #	42
83) tert-Butylbenzene	13.323	119	66446	4.879	ug/l	98
90) Hexachloroethane	14.324	117	1874	2.635	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.318	75	162	1.784	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.265	180	601	2.645	ug/l #	73
95) Naphthalene	15.509	128	2987	3.557	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.705	180	607	2.370	ug/l #	37

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

Quant Time: Nov 03 00:47:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102821W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 28 16:09:15 2021
Response via : Initial Calibration

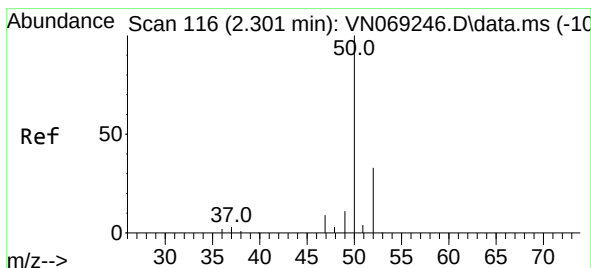
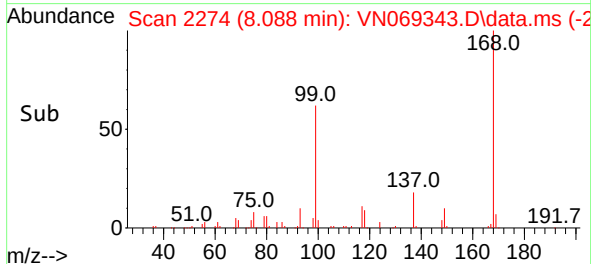
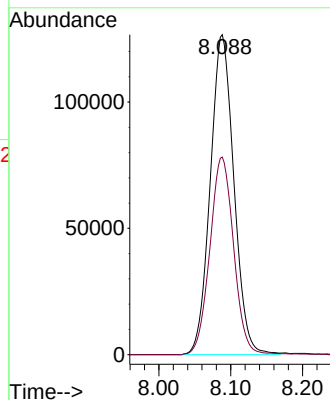
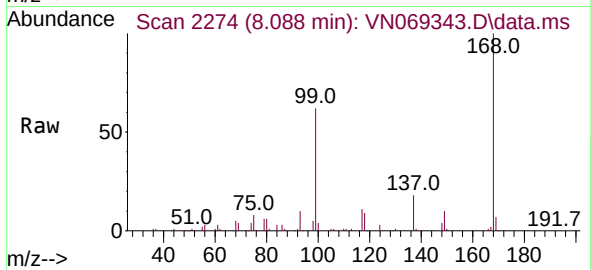




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

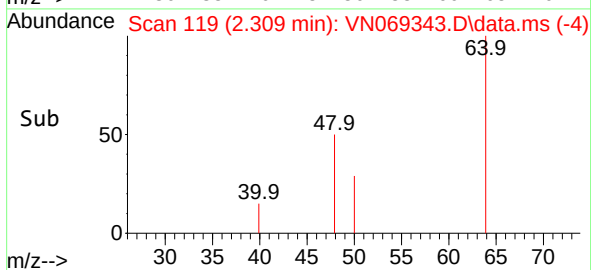
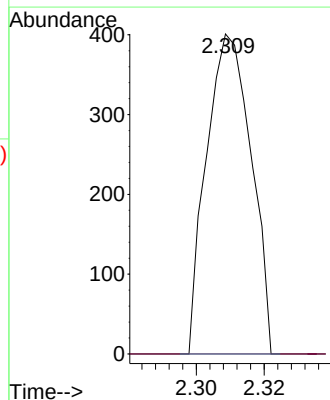
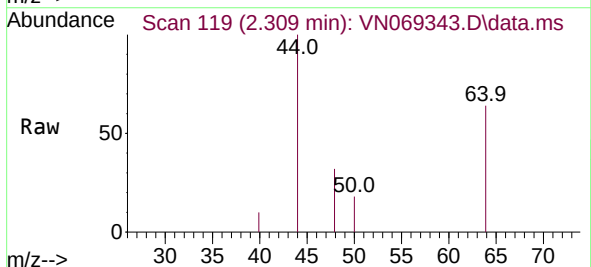
Instrument :
MSVOA_N
ClientSampleId :

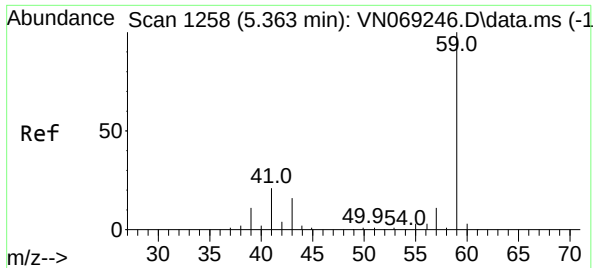
Tgt Ion:168 Resp: 289052
Ion Ratio Lower Upper
168 100
99 61.8 48.9 73.3



#3
Chloromethane
Concen: Below Cal
RT: 2.309 min Scan# 119
Delta R.T. 0.008 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

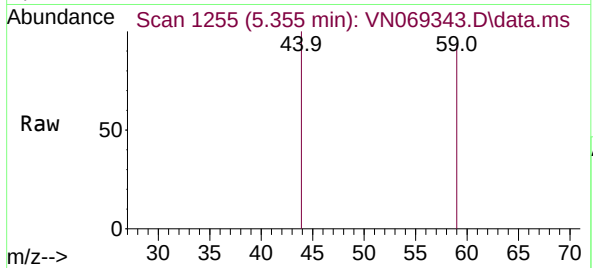
Tgt Ion: 50 Resp: 366
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#



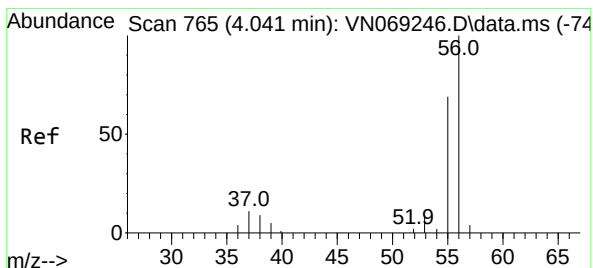
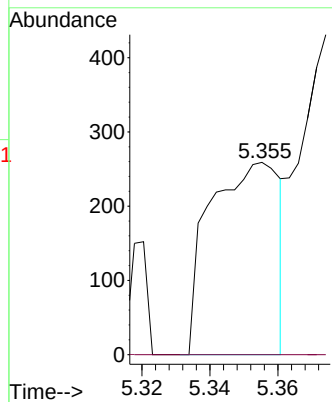
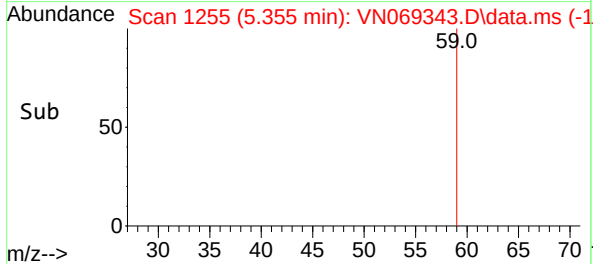


#11
Tert butyl alcohol
Concen: 13.835 ug/l
RT: 5.355 min Scan# 11
Delta R.T. -0.008 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

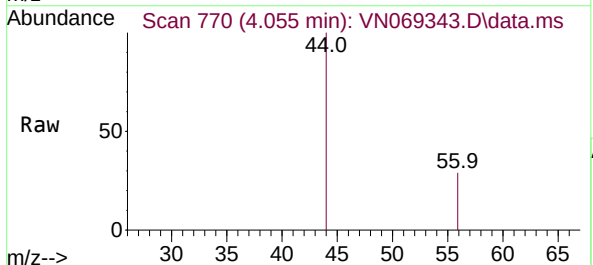
Instrument :
MSVOA_N
ClientSampleId :



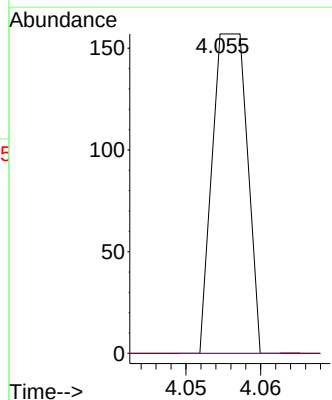
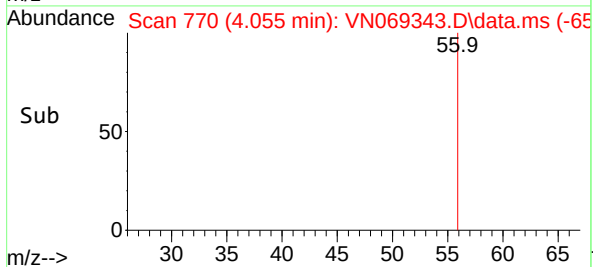
Tgt Ion: 59 Resp: 367
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

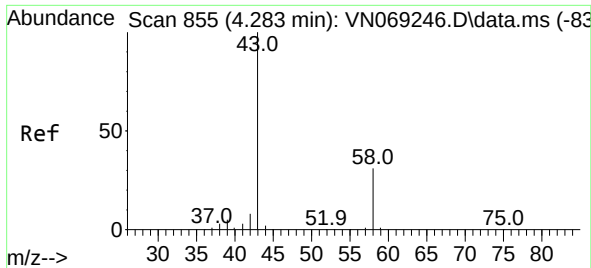


#13
Acrolein
Concen: 0.278 ug/l
RT: 4.055 min Scan# 770
Delta R.T. 0.014 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59



Tgt Ion: 56 Resp: 51
Ion Ratio Lower Upper
56 100
55 0.0 58.1 87.1#

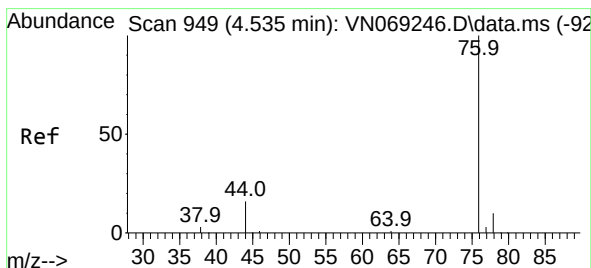
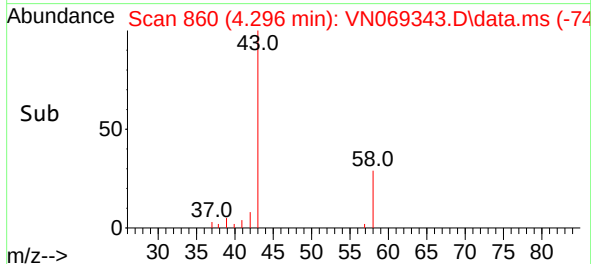
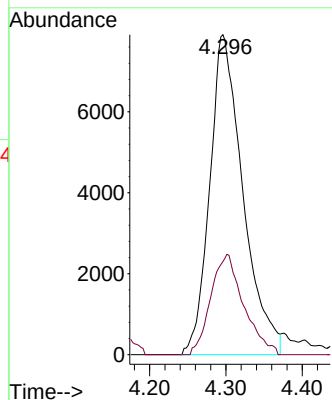
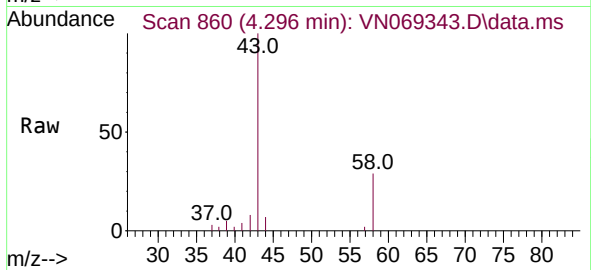




#16
Acetone
Concen: 13.456 ug/l
RT: 4.296 min Scan# 80
Delta R.T. 0.013 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

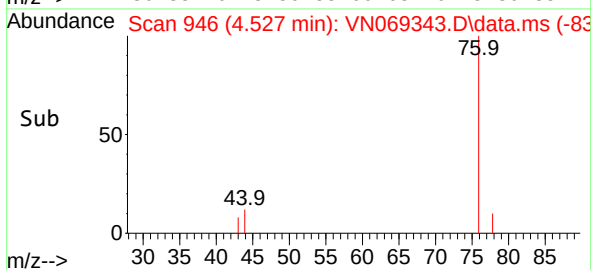
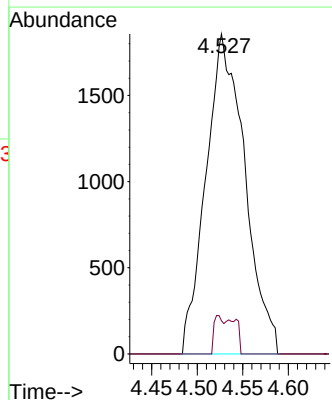
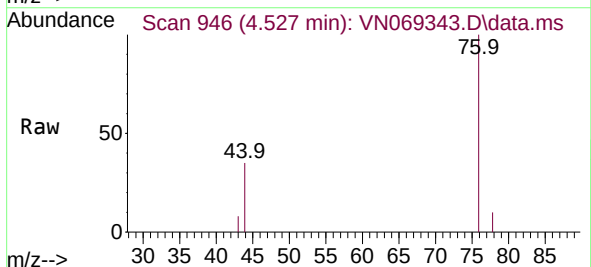
Instrument :
MSVOA_N
ClientSampleId :

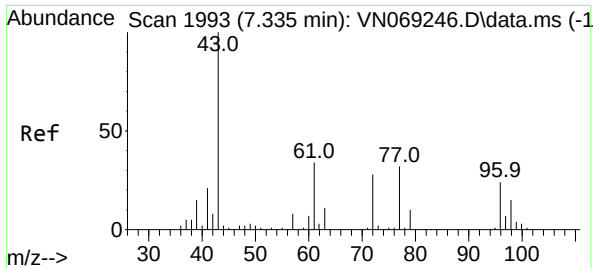
Tgt Ion: 43 Resp: 23921
Ion Ratio Lower Upper
43 100
58 29.1 24.5 36.7



#17
Carbon Disulfide
Concen: 0.795 ug/l
RT: 4.527 min Scan# 946
Delta R.T. -0.008 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion: 76 Resp: 5503
Ion Ratio Lower Upper
76 100
78 10.3 7.2 10.8





#25

2-Butanone

Concen: 4.224 ug/l

RT: 7.353 min Scan# 2000

Delta R.T. 0.018 min

Lab File: VN069343.D

Acq: 2 Nov 2021 12:59

Instrument :

MSVOA_N

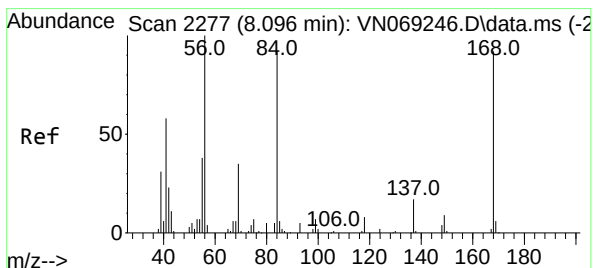
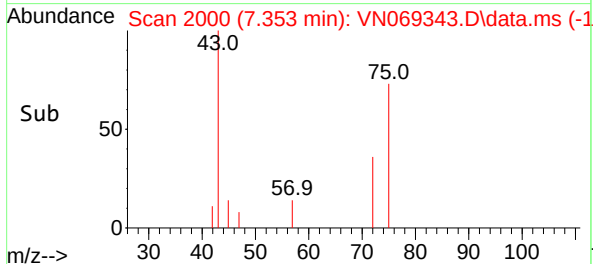
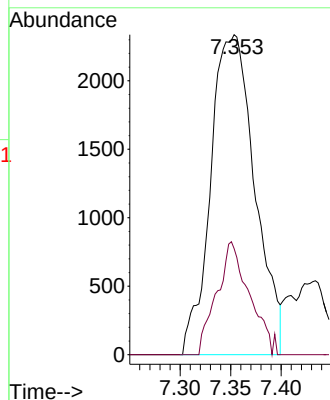
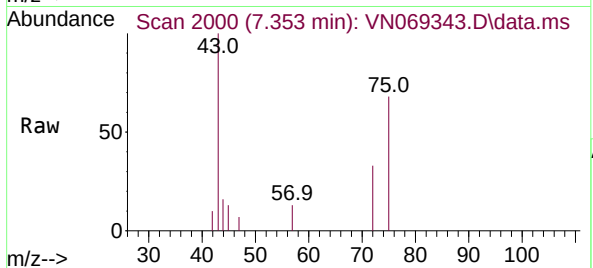
ClientSampleId :

Tgt Ion: 43 Resp: 7102

Ion Ratio Lower Upper

43 100

72 33.2 21.2 31.8#



#31

Cyclohexane

Concen: 1.270 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.008 min

Lab File: VN069343.D

Acq: 2 Nov 2021 12:59

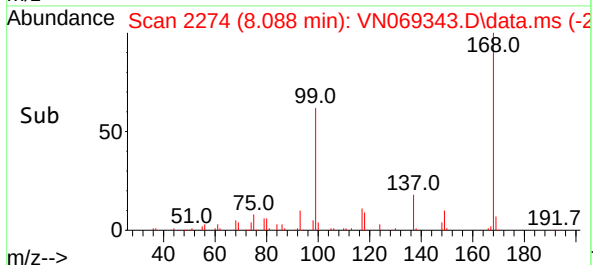
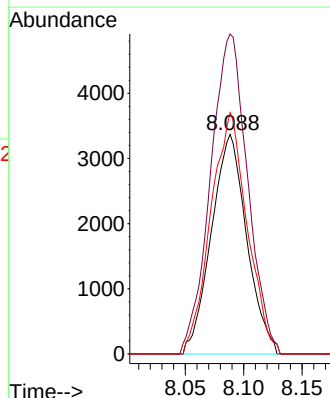
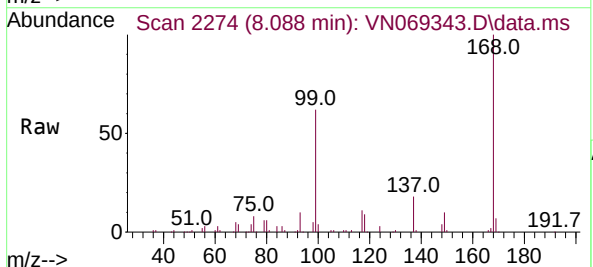
Tgt Ion: 56 Resp: 7092

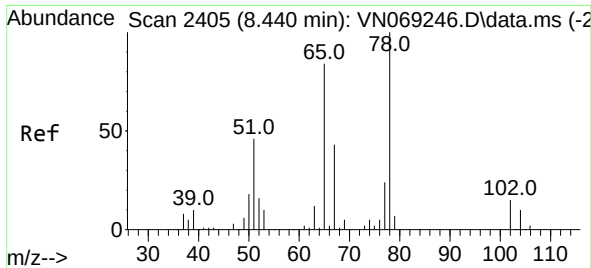
Ion Ratio Lower Upper

56 100

69 145.8 26.9 40.3#

84 109.9 67.6 101.4#

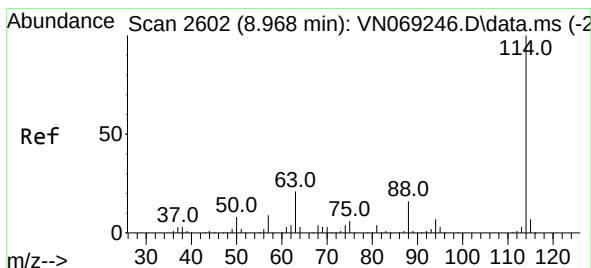
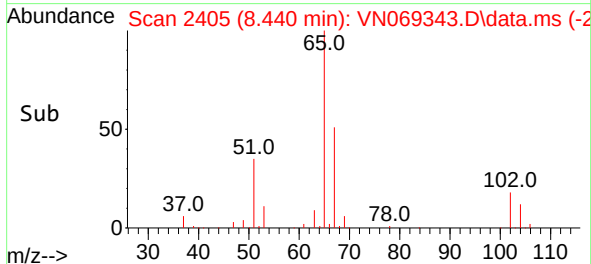
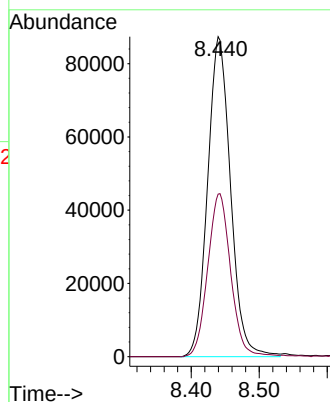
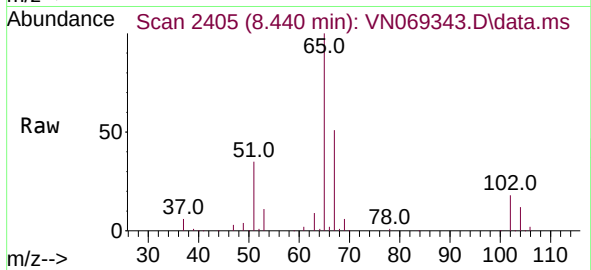




#33
 1,2-Dichloroethane-d4
 Concen: 49.052 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN069343.D
 Acq: 2 Nov 2021 12:59

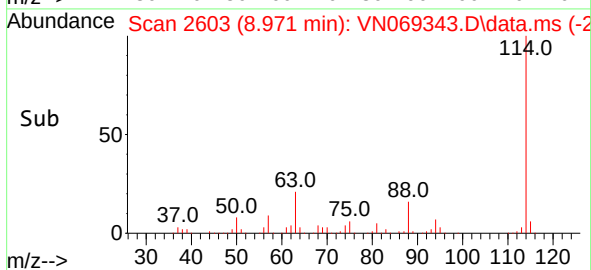
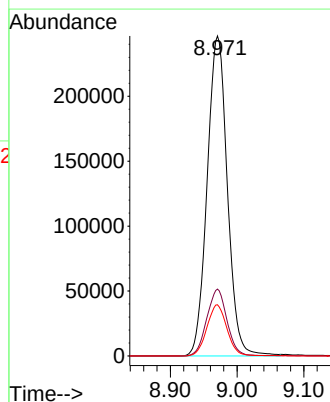
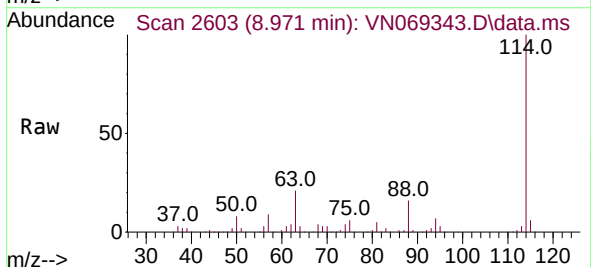
Instrument :
 MSVOA_N
 ClientSampleId :

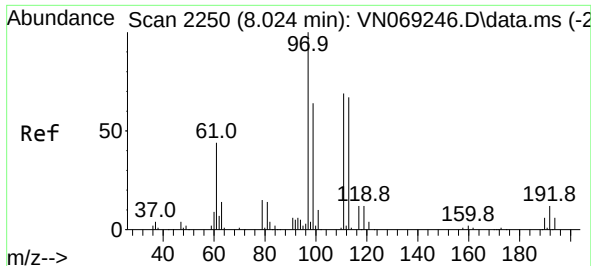
Tgt Ion: 65 Resp: 204674
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN069343.D
 Acq: 2 Nov 2021 12:59

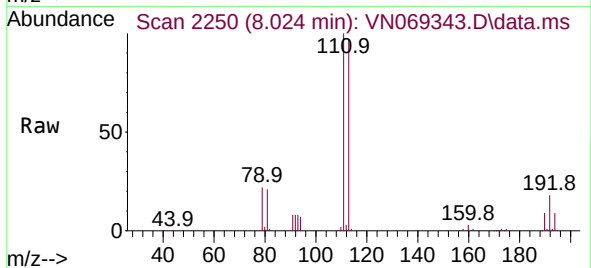
Tgt Ion: 114 Resp: 518976
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.6
 88 16.0 0.0 32.0



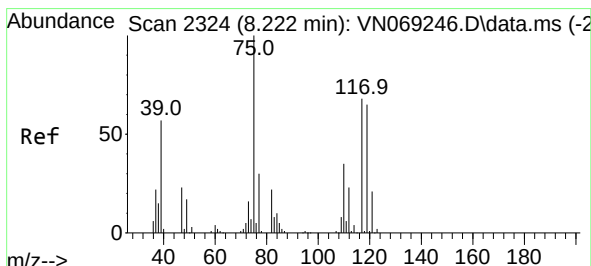
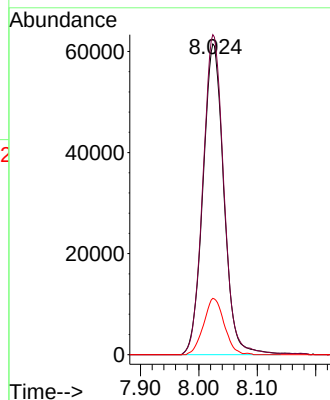
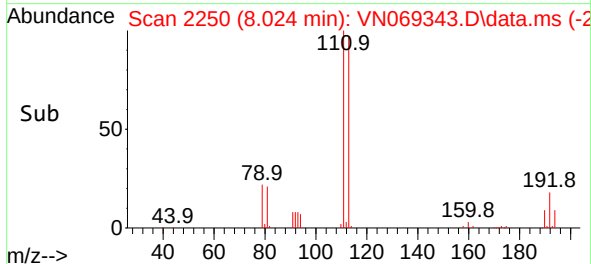


#35
Dibromofluoromethane
Concen: 47.152 ug/l
RT: 8.024 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Instrument :
MSVOA_N
ClientSampleId :

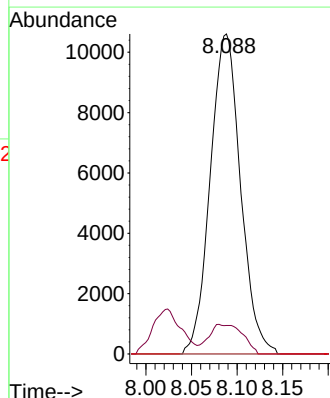
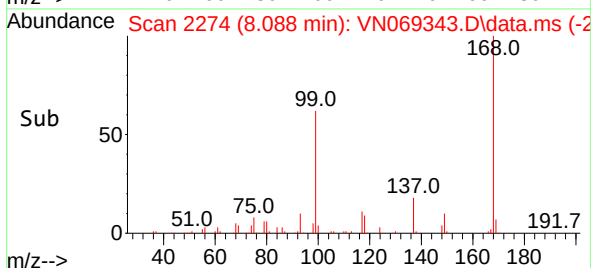
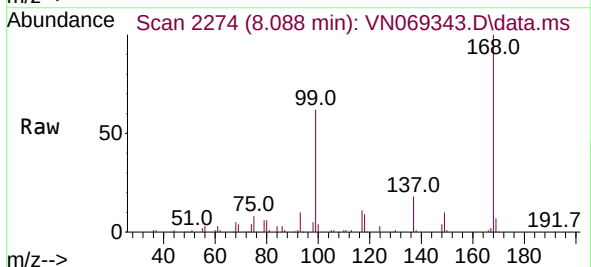


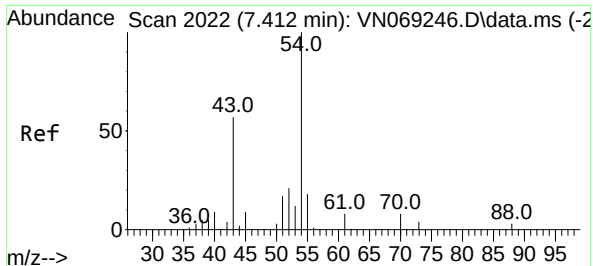
Tgt Ion:113 Resp: 152541
Ion Ratio Lower Upper
113 100
111 103.0 83.2 124.8
192 17.9 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.478 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion: 75 Resp: 24509
Ion Ratio Lower Upper
75 100
110 2.8 17.9 53.8#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.203 ug/l

RT: 7.434 min Scan# 20

Delta R.T. 0.022 min

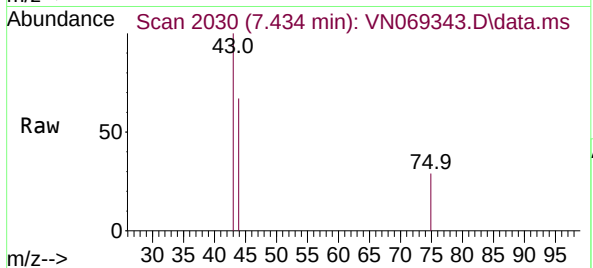
Lab File: VN069343.D

Acq: 2 Nov 2021 12:59

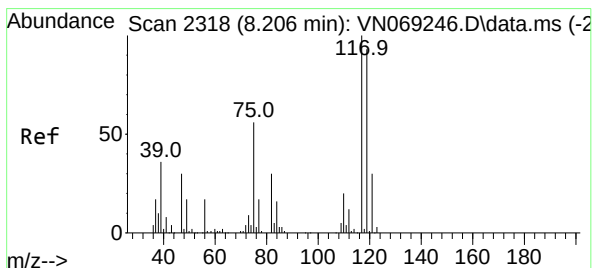
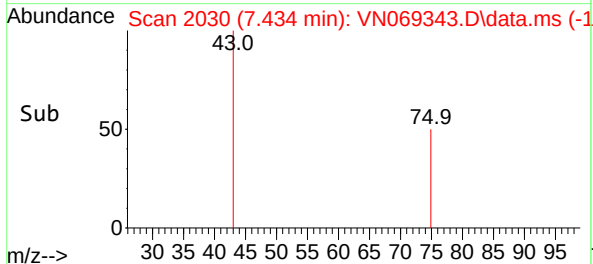
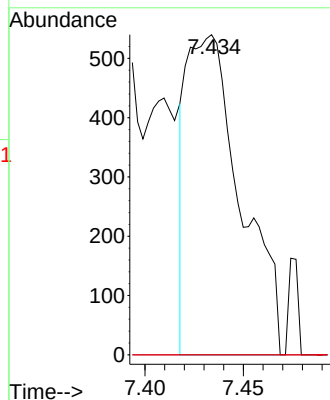
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	1036
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.2	16.8#
70	0.0	8.4	12.6#



#38

Carbon Tetrachloride

Concen: 6.922 ug/l

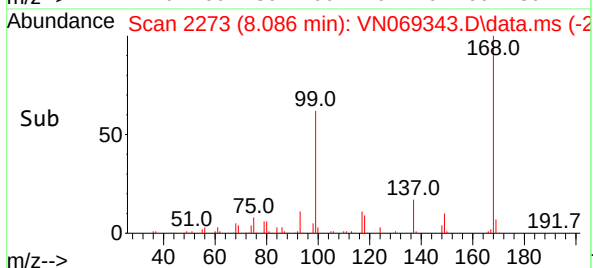
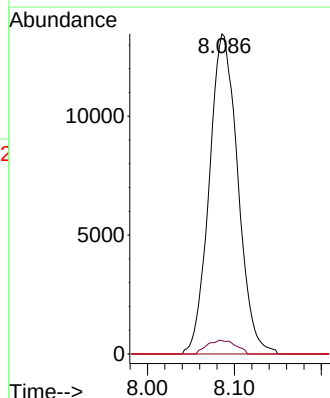
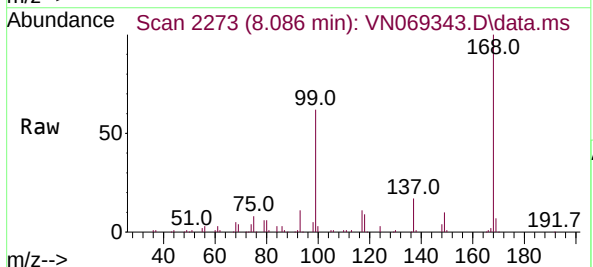
RT: 8.086 min Scan# 2273

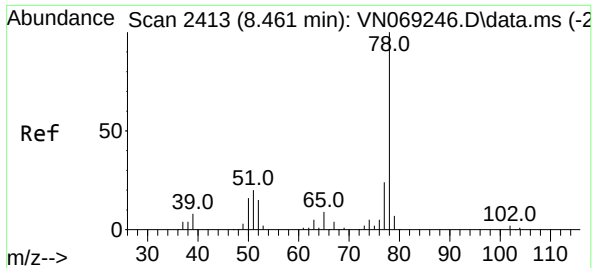
Delta R.T. -0.120 min

Lab File: VN069343.D

Acq: 2 Nov 2021 12:59

Tgt Ion:	117	Resp:	30709
Ion	Ratio	Lower	Upper
117	100		
119	4.2	76.9	115.3#
121	0.0	24.6	37.0#

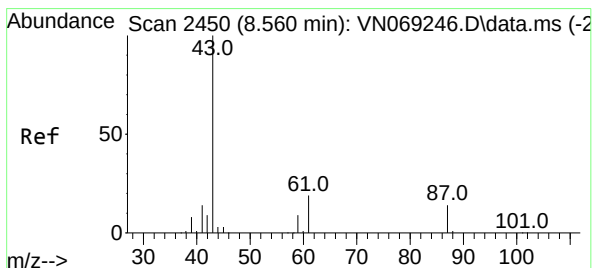
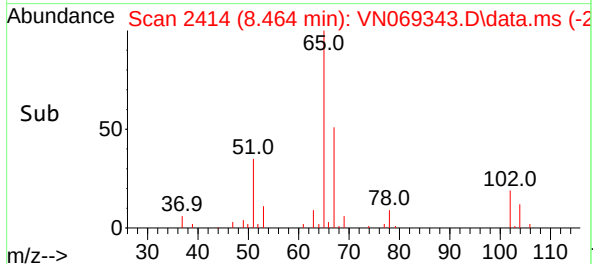
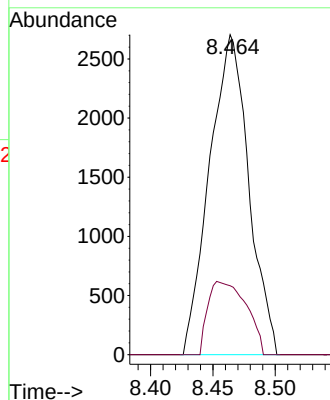
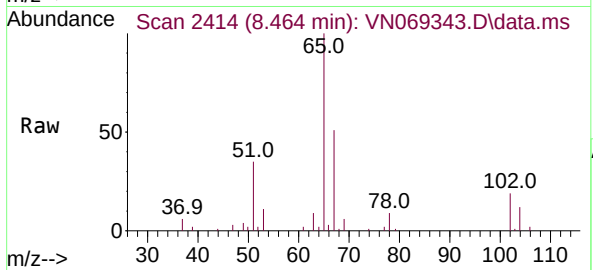




#40
Benzene
Concen: 0.440 ug/l
RT: 8.464 min Scan# 2413
Delta R.T. 0.003 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

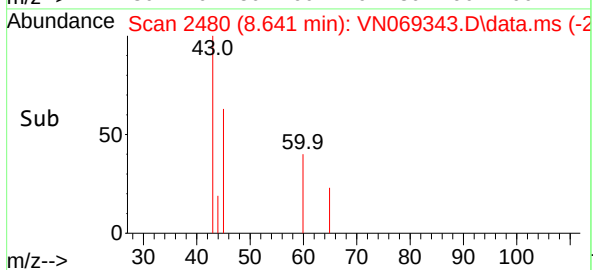
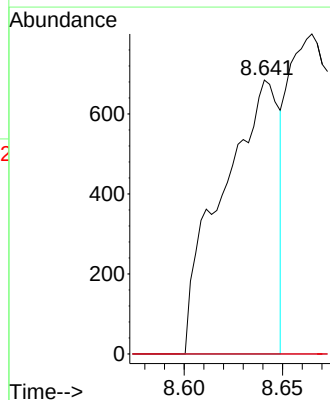
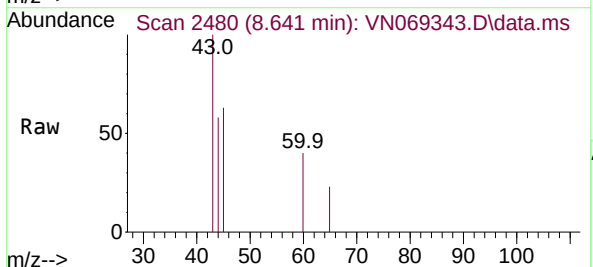
Instrument :
MSVOA_N
ClientSampleId :

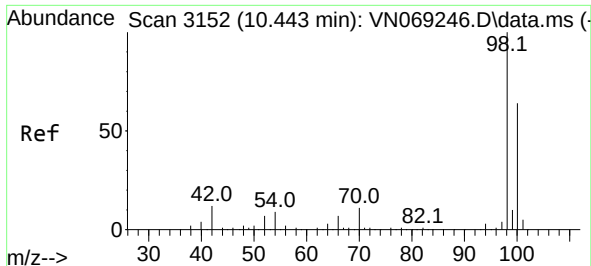
Tgt Ion: 78 Resp: 5921
Ion Ratio Lower Upper
78 100
77 21.6 19.1 28.7



#43
Isopropyl Acetate
Concen: 0.612 ug/l
RT: 8.641 min Scan# 2480
Delta R.T. 0.081 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion: 43 Resp: 1373
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 10.7 16.1#

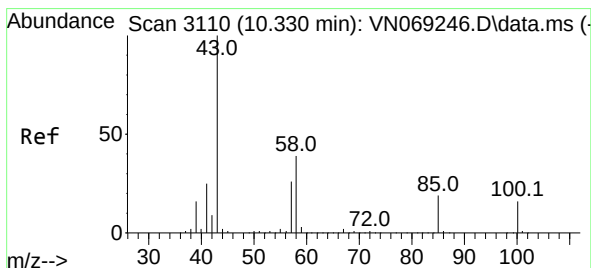
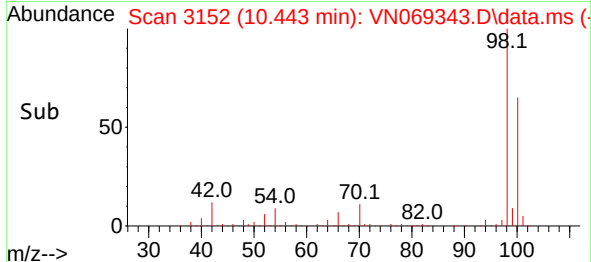
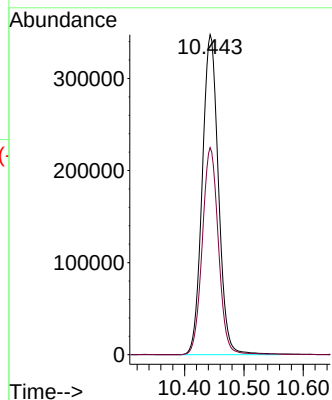
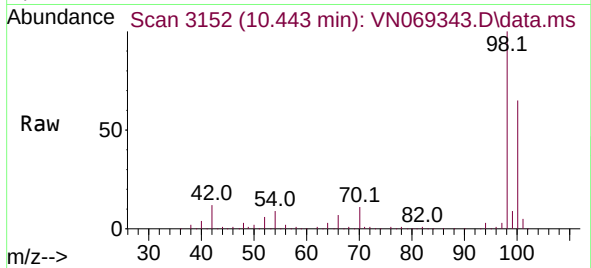




#50
Toluene-d8
Concen: 50.980 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

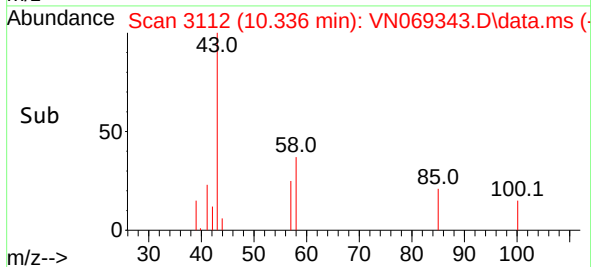
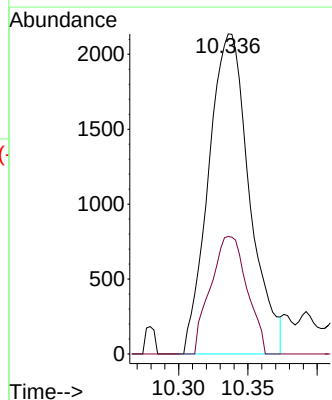
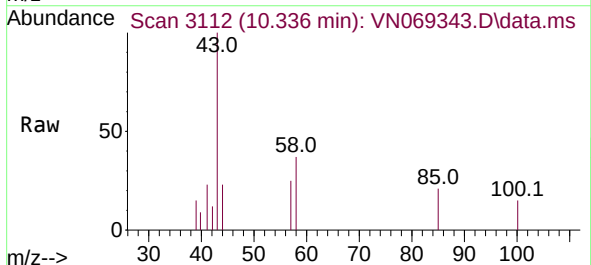
Instrument :
MSVOA_N
ClientSampleId :

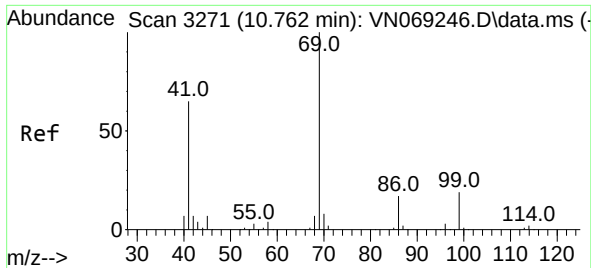
Tgt Ion: 98 Resp: 659429
Ion Ratio Lower Upper
98 100
100 64.4 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 7.142 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.006 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion: 43 Resp: 4393
Ion Ratio Lower Upper
43 100
58 32.5 31.0 46.4

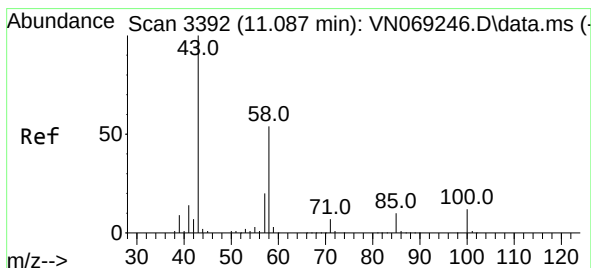
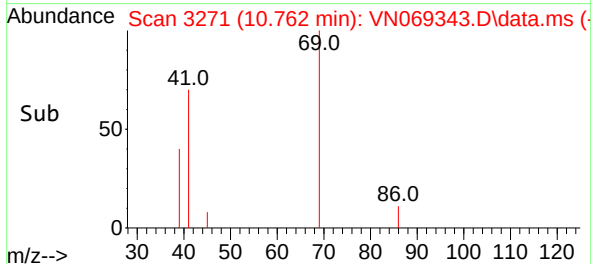
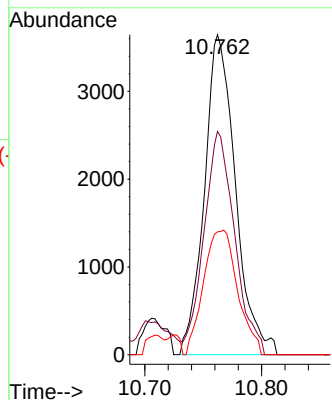
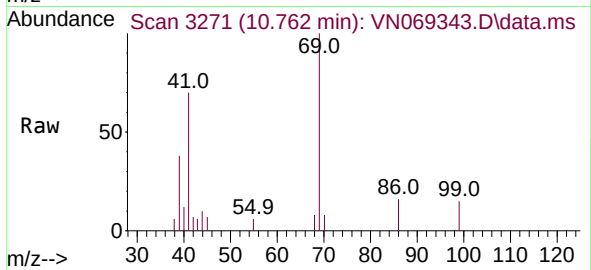




#56
Ethyl methacrylate
Concen: 2.685 ug/l
RT: 10.762 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

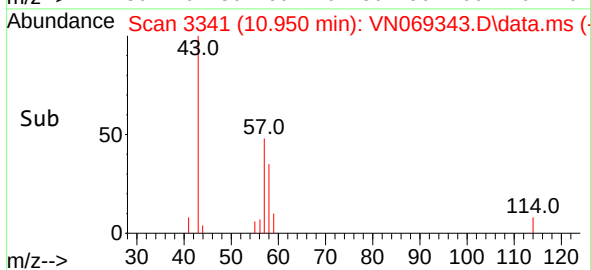
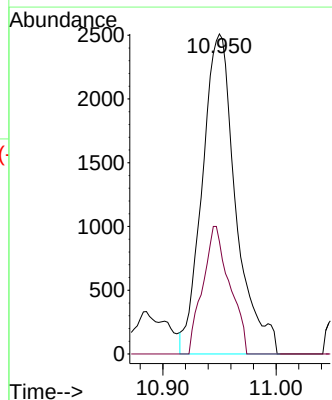
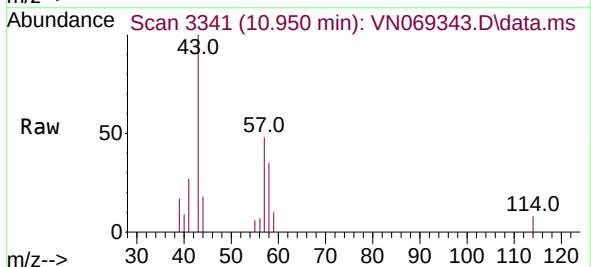
Instrument :
MSVOA_N
ClientSampleId :

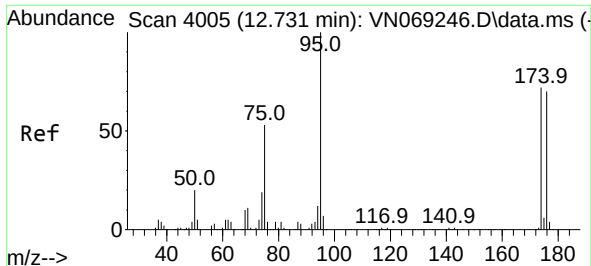
Tgt Ion: 69 Resp: 6741
Ion Ratio Lower Upper
69 100
41 69.2 53.3 79.9
39 42.6 33.3 49.9



#59
2-Hexanone
Concen: 9.128 ug/l
RT: 10.950 min Scan# 3341
Delta R.T. -0.137 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion: 43 Resp: 5156
Ion Ratio Lower Upper
43 100
58 31.8 26.9 80.7

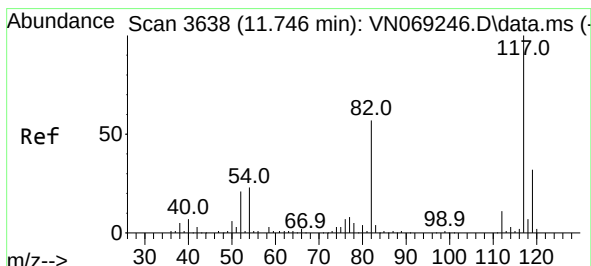
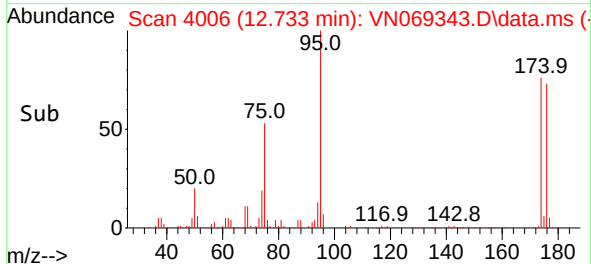
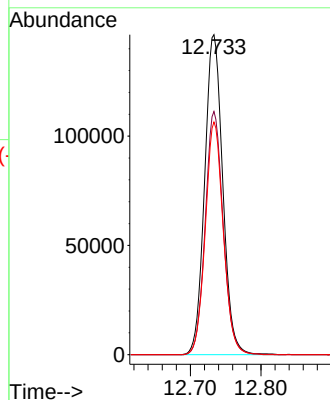
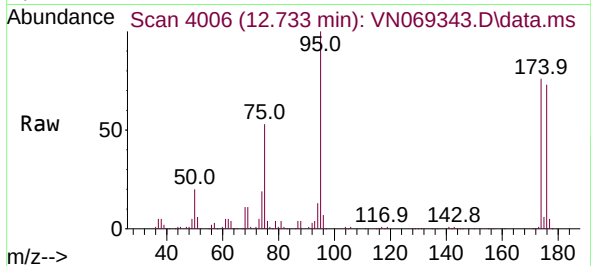




#62
4-Bromofluorobenzene
Concen: 53.562 ug/l
RT: 12.733 min Scan# 4005
Delta R.T. 0.002 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

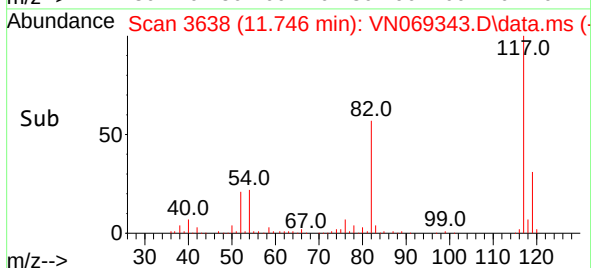
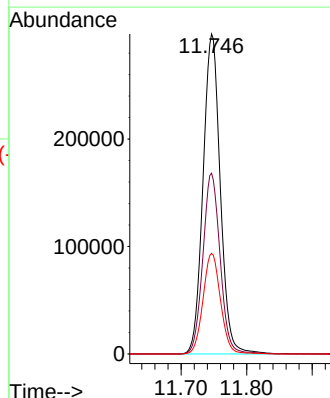
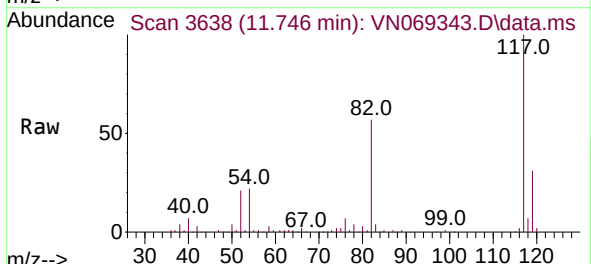
Instrument :
MSVOA_N
ClientSampleId :

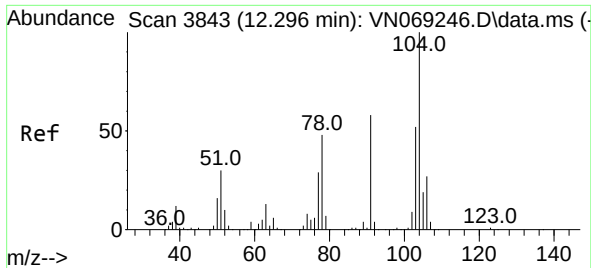
Tgt Ion: 95 Resp: 261437
Ion Ratio Lower Upper
95 100
174 75.3 0.0 144.8
176 72.2 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion: 117 Resp: 543273
Ion Ratio Lower Upper
117 100
82 56.5 46.4 69.6
119 31.4 26.0 39.0

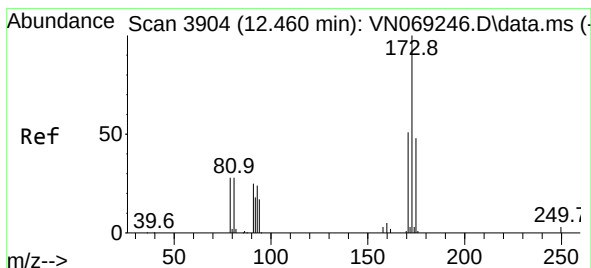
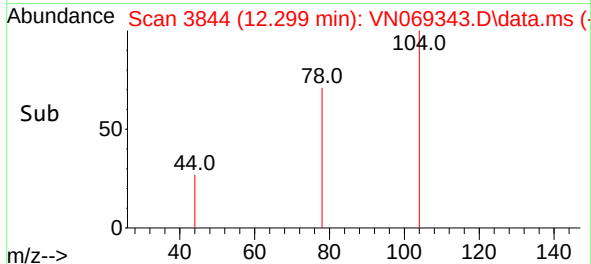
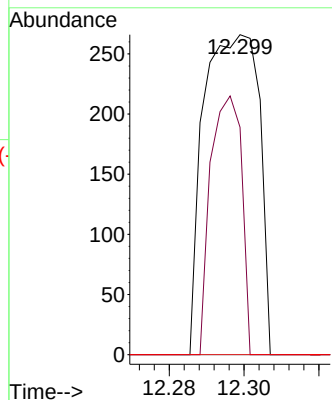
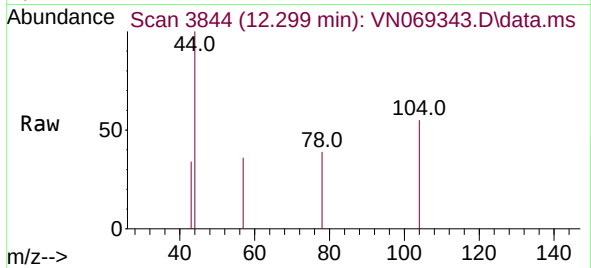




#70
Styrene
Concen: 1.476 ug/l
RT: 12.299 min Scan# 3844
Delta R.T. 0.003 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

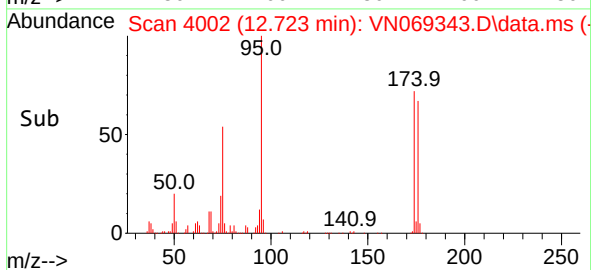
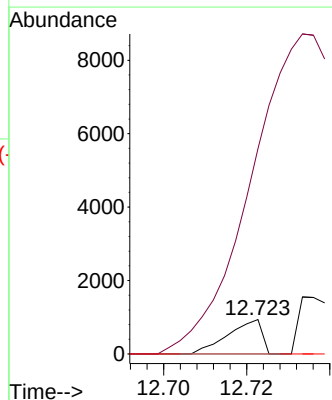
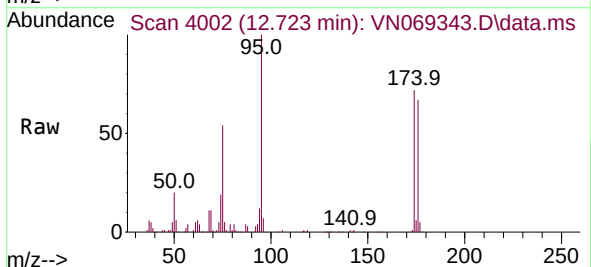
Instrument :
MSVOA_N
ClientSampleId :

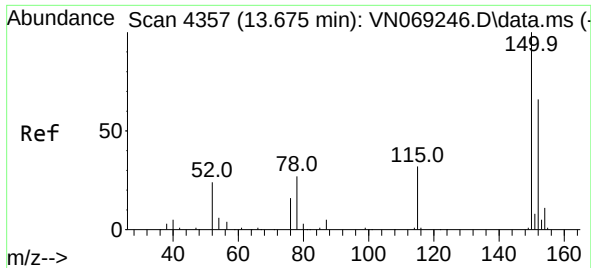
Tgt Ion:104 Resp: 272
Ion Ratio Lower Upper
104 100
78 45.2 42.2 63.4
103 0.0 44.4 66.6#



#71
Bromoform
Concen: 3.022 ug/l
RT: 12.723 min Scan# 4002
Delta R.T. 0.263 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion:173 Resp: 531
Ion Ratio Lower Upper
173 100
175 0.0 23.8 71.5#
254 0.0 0.0 0.0

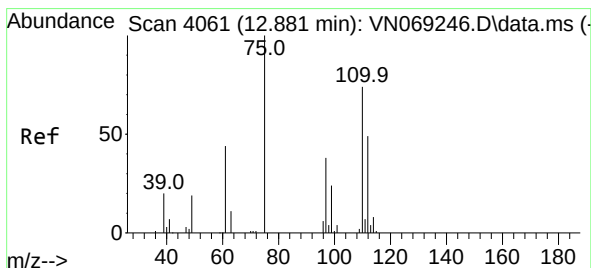
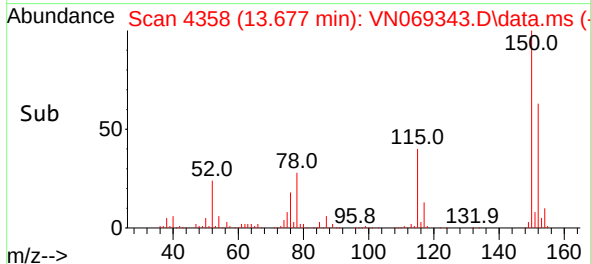
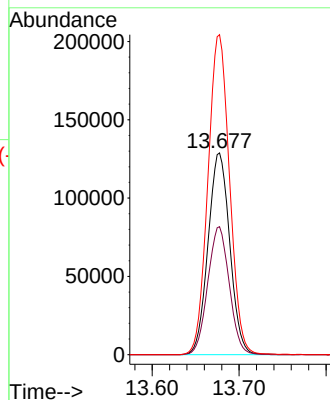
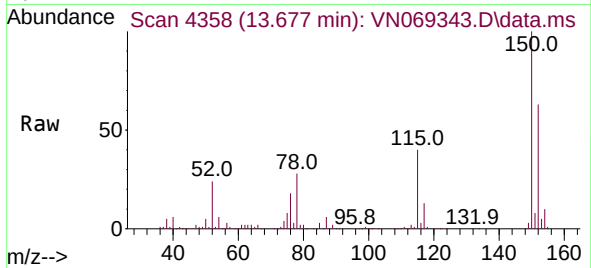




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.677 min Scan# 41
 Delta R.T. 0.002 min
 Lab File: VN069343.D
 Acq: 2 Nov 2021 12:59

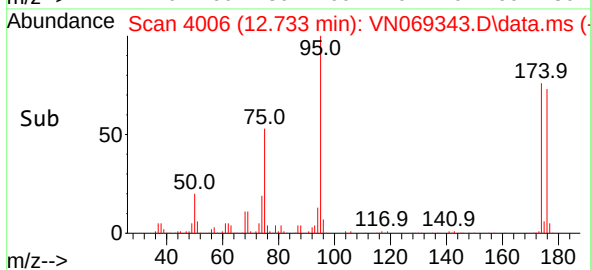
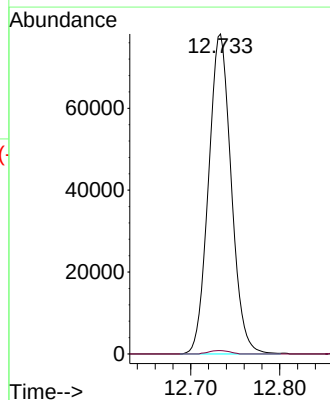
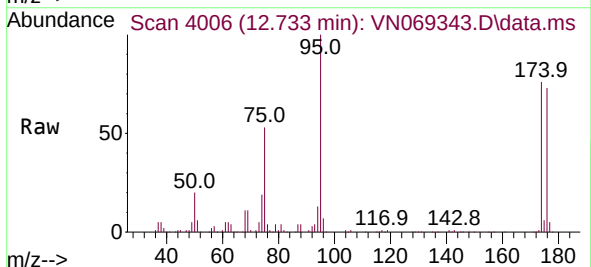
Instrument :
 MSVOA_N
 ClientSampleId :

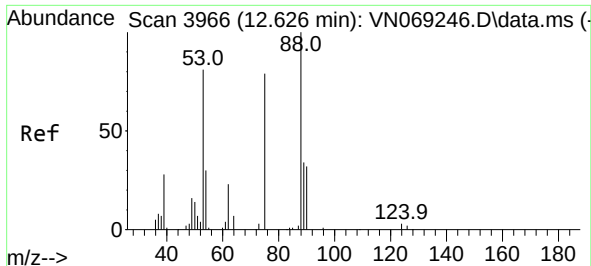
Tgt Ion:152 Resp: 223679
 Ion Ratio Lower Upper
 152 100
 115 62.9 31.4 94.3
 150 157.9 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 23.517 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. -0.148 min
 Lab File: VN069343.D
 Acq: 2 Nov 2021 12:59

Tgt Ion: 75 Resp: 138352
 Ion Ratio Lower Upper
 75 100
 77 1.0 96.2 288.4#

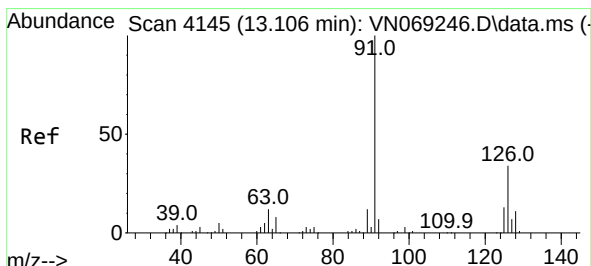
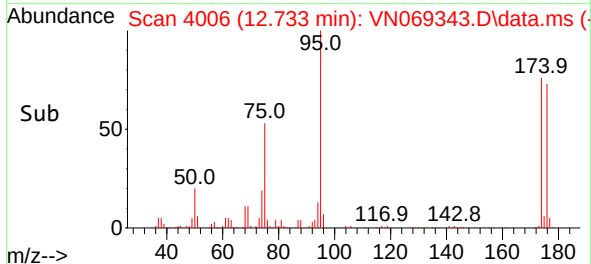
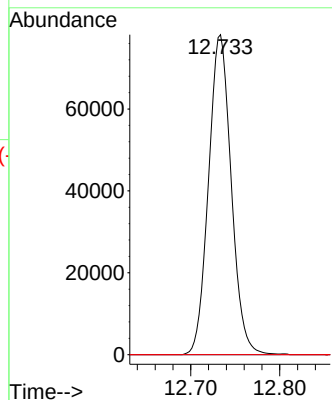
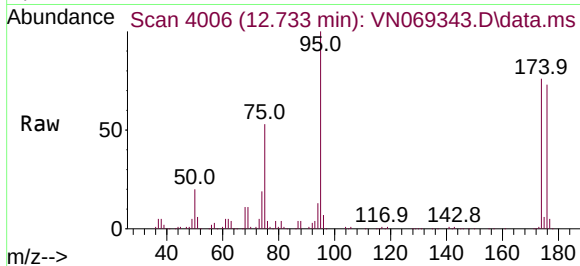




#81
trans-1,4-Dichloro-2-butene
Concen: 67.609 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

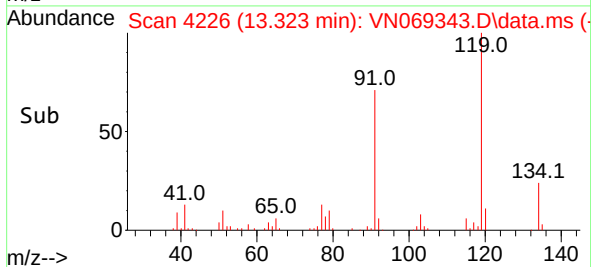
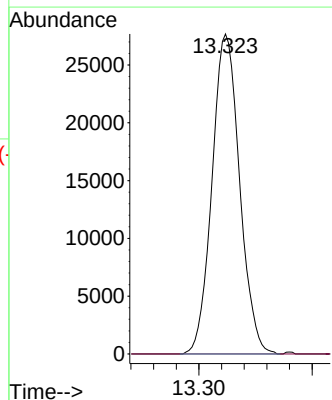
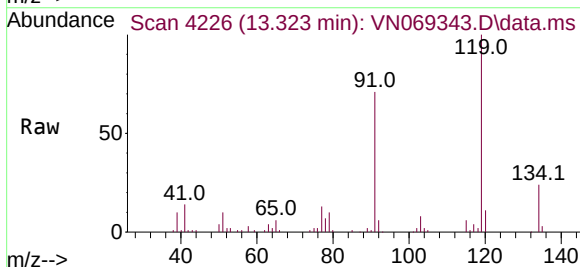
Instrument :
MSVOA_N
ClientSampleId :

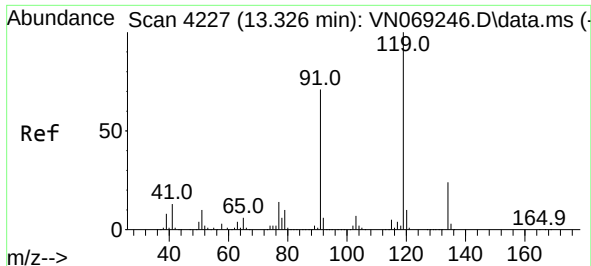
Tgt Ion: 75 Resp: 138352
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



#82
4-Chlorotoluene
Concen: 3.536 ug/l
RT: 13.323 min Scan# 4226
Delta R.T. 0.217 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion: 91 Resp: 46751
Ion Ratio Lower Upper
91 100
126 0.0 16.3 48.8#

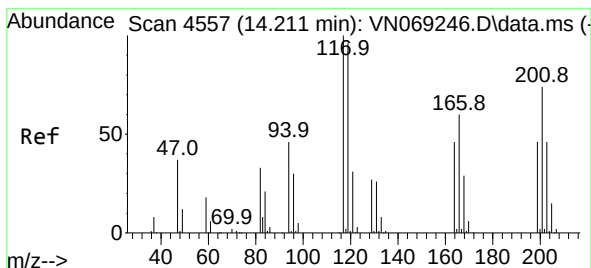
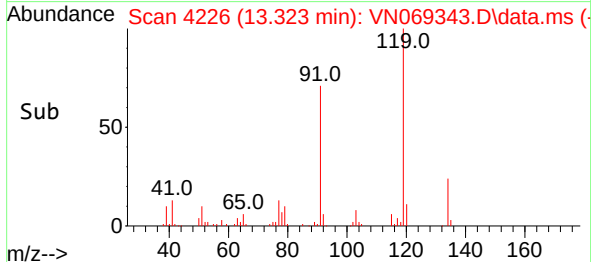
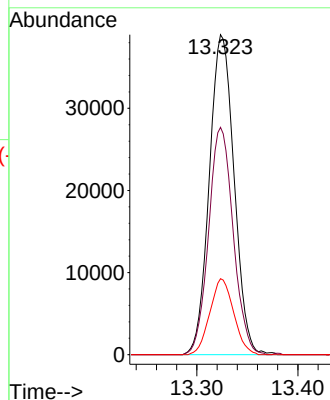
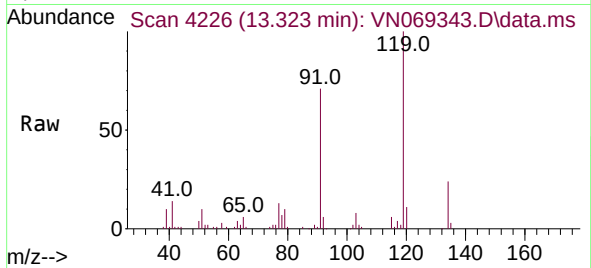




#83
 tert-Butylbenzene
 Concen: 4.879 ug/l
 RT: 13.323 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VN069343.D
 Acq: 2 Nov 2021 12:59

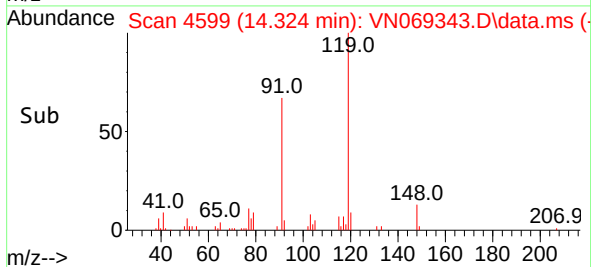
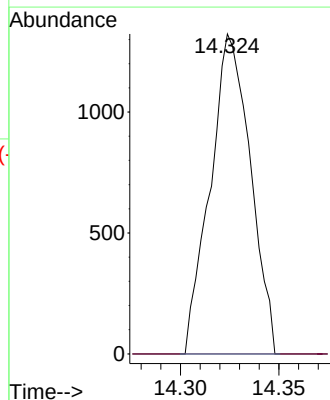
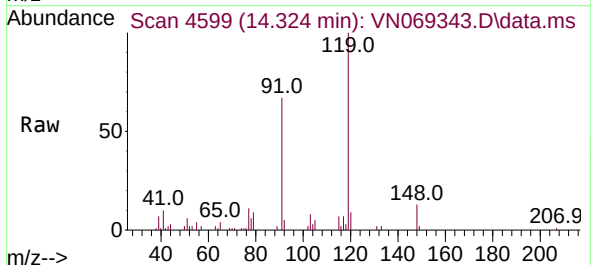
Instrument :
 MSVOA_N
 ClientSampleId :

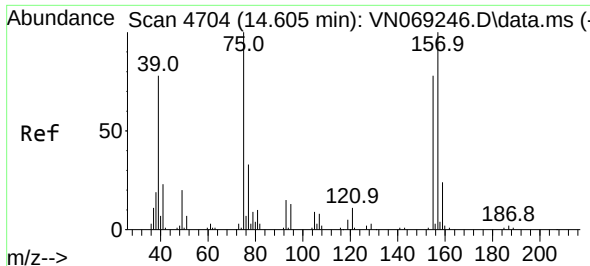
Tgt Ion:119 Resp: 66446
 Ion Ratio Lower Upper
 119 100
 91 70.4 34.6 103.9
 134 22.8 12.6 37.6



#90
 Hexachloroethane
 Concen: 2.635 ug/l
 RT: 14.324 min Scan# 4599
 Delta R.T. 0.113 min
 Lab File: VN069343.D
 Acq: 2 Nov 2021 12:59

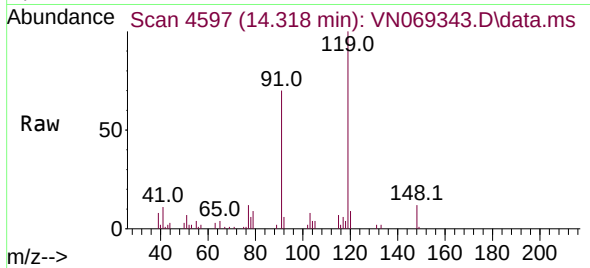
Tgt Ion:117 Resp: 1874
 Ion Ratio Lower Upper
 117 100
 201 0.0 37.1 111.5#



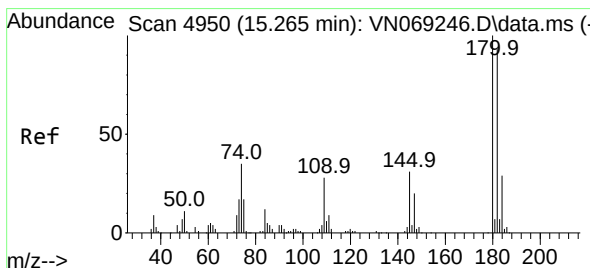
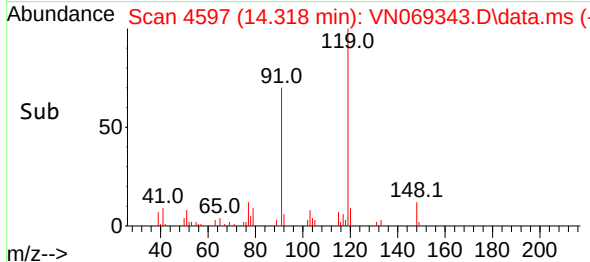
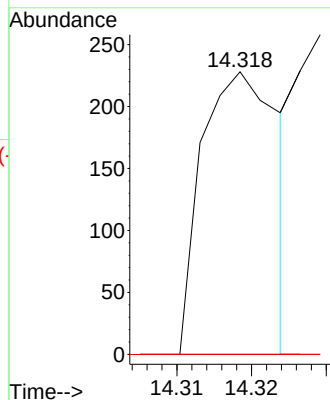


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.784 ug/l
 RT: 14.318 min Scan# 41
 Delta R.T. -0.287 min
 Lab File: VN069343.D
 Acq: 2 Nov 2021 12:59

Instrument :
 MSVOA_N
 ClientSampleId :

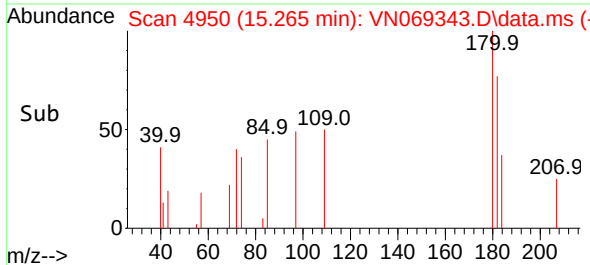
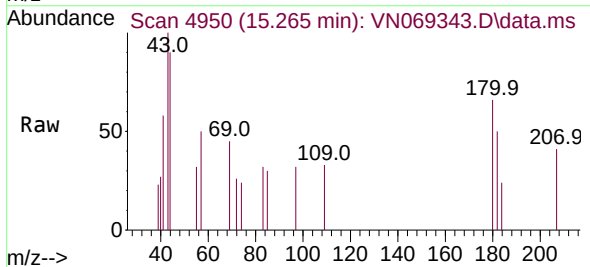
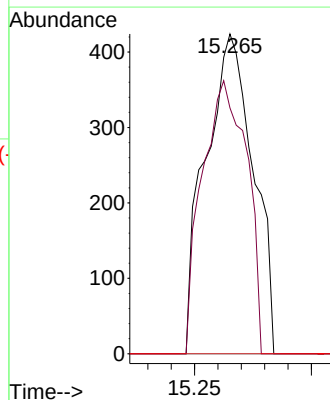


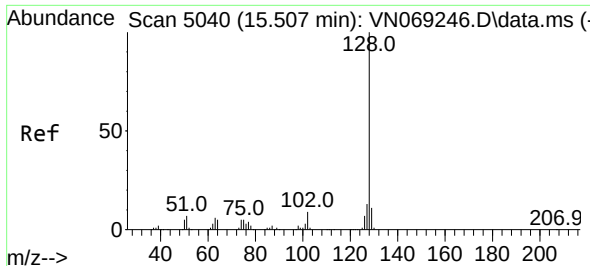
Tgt Ion: 75 Resp: 162
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.8 116.4#
 157 0.0 50.2 150.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.645 ug/l
 RT: 15.265 min Scan# 4950
 Delta R.T. 0.000 min
 Lab File: VN069343.D
 Acq: 2 Nov 2021 12:59

Tgt Ion:180 Resp: 601
 Ion Ratio Lower Upper
 180 100
 182 79.9 47.9 143.7
 145 0.0 16.4 49.2#

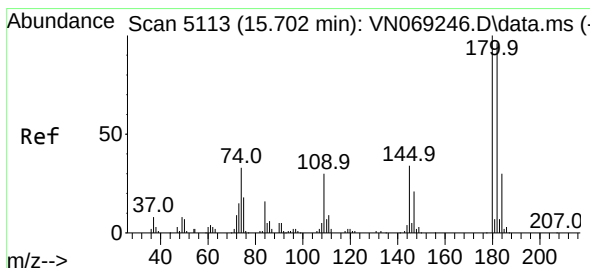
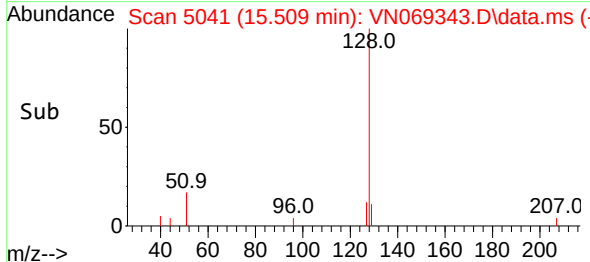
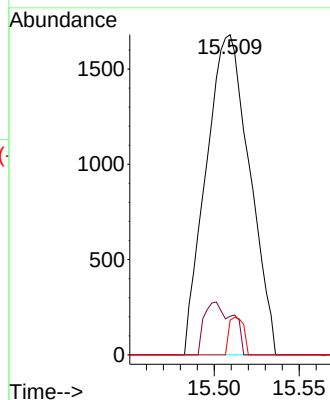
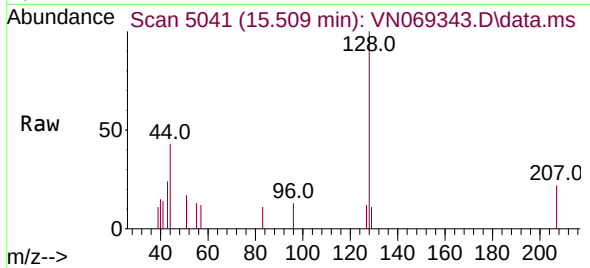




#95
Naphthalene
Concen: 3.557 ug/l
RT: 15.509 min Scan# 5040
Delta R.T. 0.002 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 2987
Ion Ratio Lower Upper
128 100
127 10.7 10.5 15.7
129 3.9 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 2.370 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.003 min
Lab File: VN069343.D
Acq: 2 Nov 2021 12:59

Tgt Ion:180 Resp: 607
Ion Ratio Lower Upper
180 100
182 33.4 48.1 144.3#
145 0.0 17.4 52.2#

