

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102221\
 Data File : VU045368.D
 Acq On : 22 Oct 2021 16:35
 Operator : SY/MD
 Sample : M4316-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 01:13:11 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092821W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 28 12:32:13 2021
 Response via : Initial Calibration

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

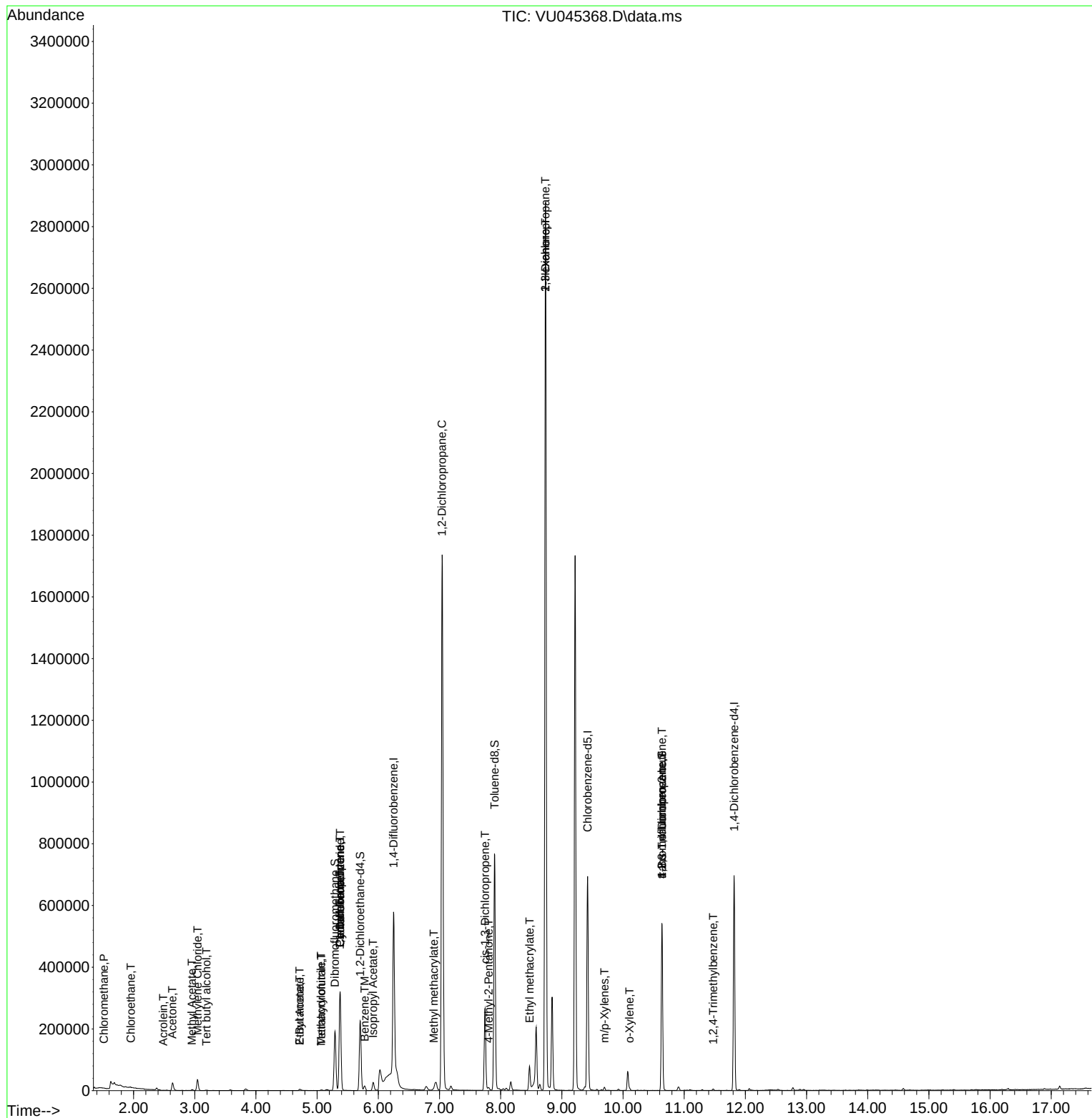
Internal Standards						
1) Pentafluorobenzene	5.375	168	212760	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	402470	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	371204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	169487	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	170410	48.116	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.240%
35) Dibromofluoromethane	5.292	113	122584	48.282	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.560%
50) Toluene-d8	7.899	98	499893	49.831	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.660%
62) 4-Bromofluorobenzene	10.635	95	186401	45.007	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.020%
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	772	0.226	ug/l	94
6) Chloroethane	1.954	64	1964	0.750	ug/l #	59
11) Tert butyl alcohol	3.192	59	1247	1.227	ug/l #	72
13) Acrolein	2.488	56	271	4.475	ug/l	87
16) Acetone	2.636	43	31089	14.788	ug/l	98
18) Methyl Acetate	2.954	43	4310	0.701	ug/l	94
20) Methylene Chloride	3.044	84	16503	5.212	ug/l	95
25) 2-Butanone	4.713	43	7861	2.632	ug/l	95
29) Tetrahydrofuran	5.070	42	1491	0.839	ug/l #	86
31) Cyclohexane	5.375	56	5343	0.993	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	20181	4.795	ug/l #	49
37) Ethyl Acetate	4.713	43	7861	1.412	ug/l #	69
38) Carbon Tetrachloride	5.375	117	22092	6.066	ug/l #	16
40) Benzene	5.777	78	13313	1.062	ug/l	99
41) Methacrylonitrile	5.067	41	808	0.282	ug/l #	39
43) Isopropyl Acetate	5.915	43	29993	3.580	ug/l	99
45) 1,2-Dichloropropane	7.041	63	2315	0.697	ug/l #	45
48) Methyl methacrylate	6.909	41	9757	2.393	ug/l #	14
49) 1,4-Dioxane	7.044	88	154	Below Cal	#	1
51) 4-Methyl-2-Pentanone	7.803	43	6007	0.985	ug/l	99
54) cis-1,3-Dichloropropene	7.745	75	49890	9.635	ug/l #	58
56) Ethyl methacrylate	8.475	69	223	1.855	ug/l #	1
57) 1,3-Dichloropropane	8.732	76	31365	5.376	ug/l #	43
59) 2-Hexanone	8.732	43	418760	84.311	ug/l #	49
68) m/p-Xylenes	9.697	106	2996	0.538	ug/l	97
69) o-Xylene	10.105	106	1817	0.329	ug/l	95
76) 1,2,3-Trichloropropane	10.635	75	97393	19.701	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.635	75	97393	54.673	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.475	105	2943	0.269	ug/l	90

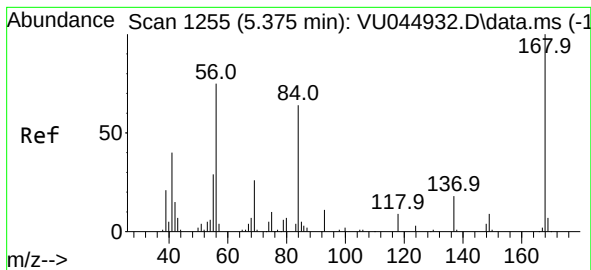
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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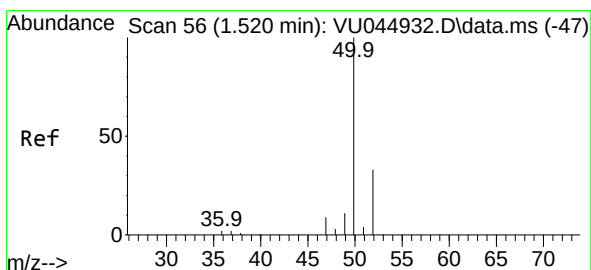
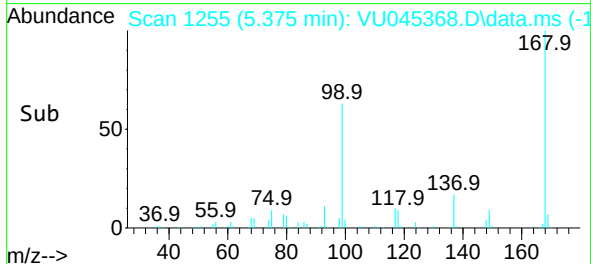
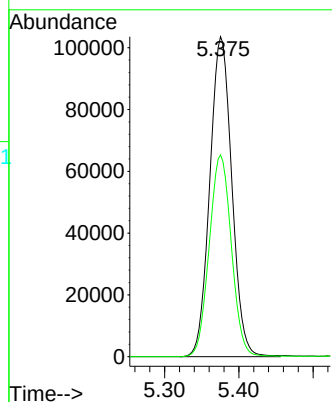
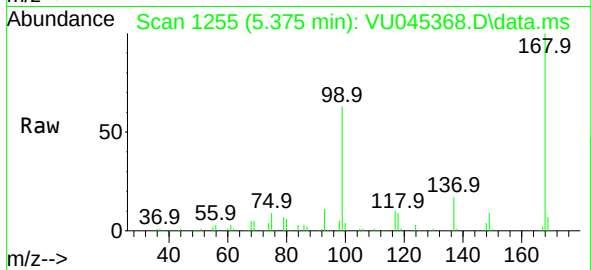




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

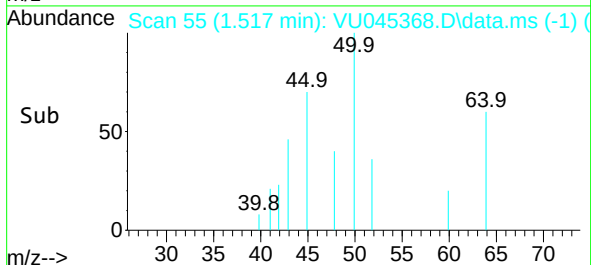
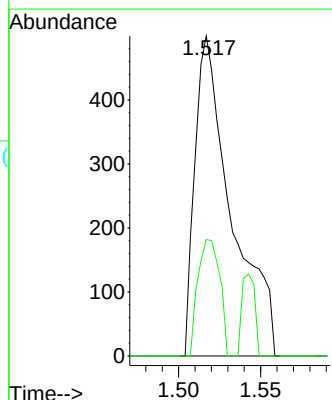
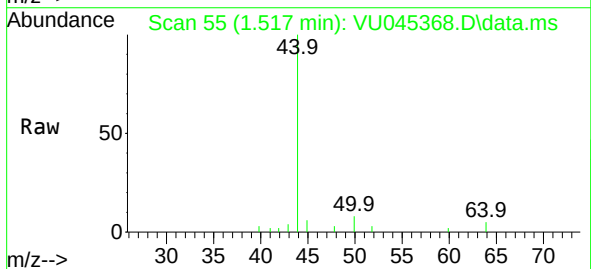
Instrument :
MSVOA_U
ClientSampled :

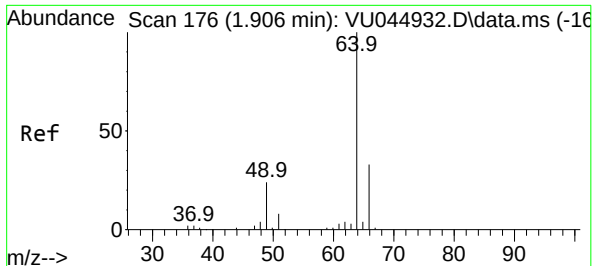
Tgt Ion:168 Resp: 212760
Ion Ratio Lower Upper
168 100
99 63.0 51.4 77.0



#3
Chloromethane
Concen: 0.226 ug/l
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 50 Resp: 772
Ion Ratio Lower Upper
50 100
52 36.4 26.3 39.5

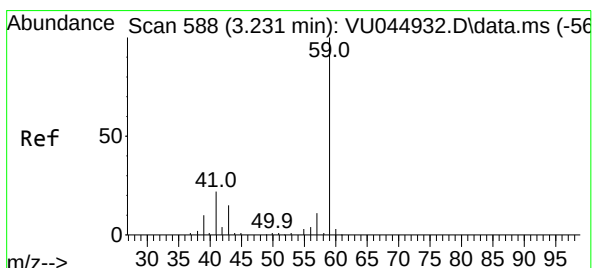
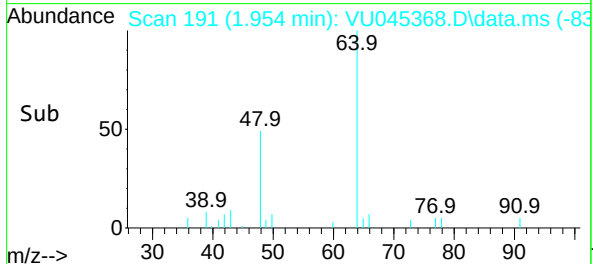
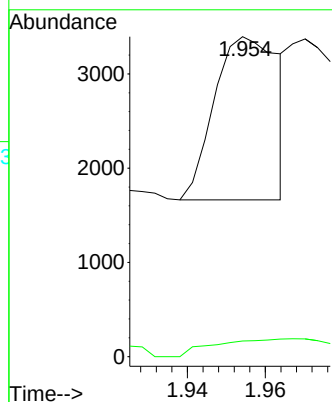
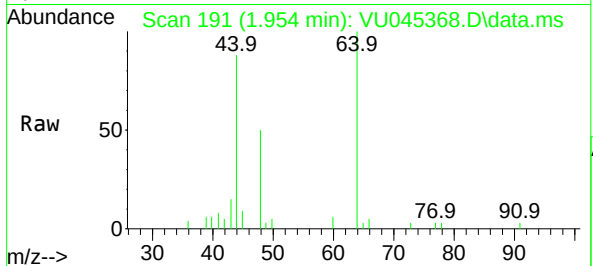




#6
Chloroethane
Concen: 0.750 ug/l
RT: 1.954 min Scan# 191
Delta R.T. 0.048 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

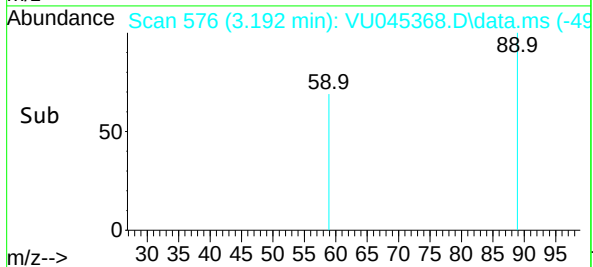
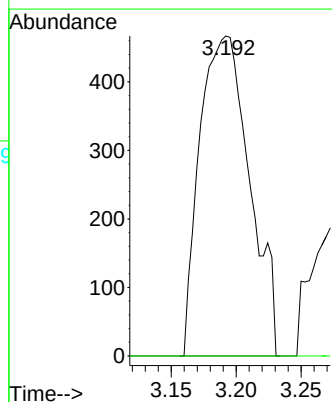
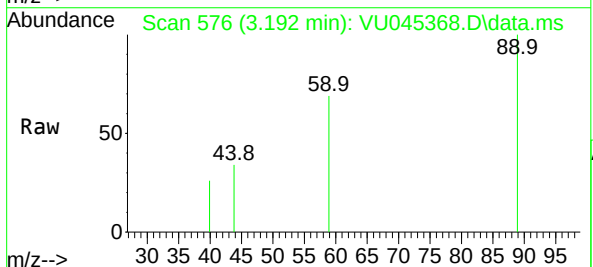
Instrument :
MSVOA_U
ClientSampled :

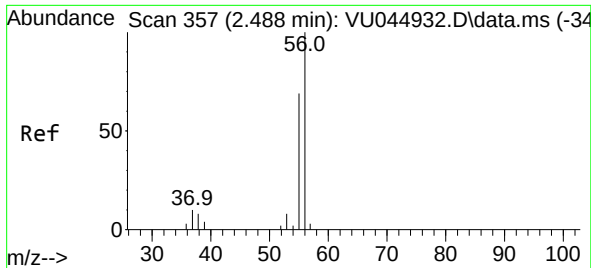
Tgt Ion: 64 Resp: 1964
Ion Ratio Lower Upper
64 100
66 9.6 25.8 38.8#



#11
Tert butyl alcohol
Concen: 1.227 ug/l
RT: 3.192 min Scan# 576
Delta R.T. -0.039 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 59 Resp: 1247
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

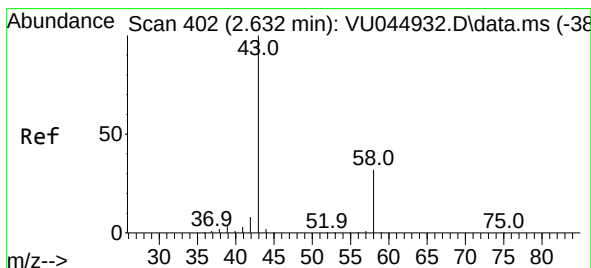
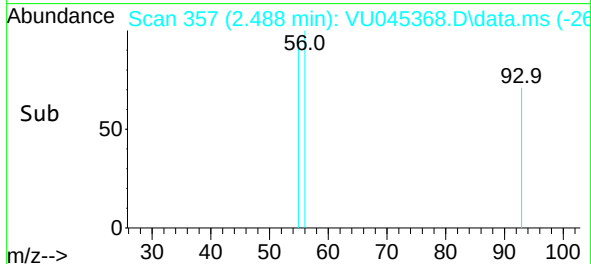
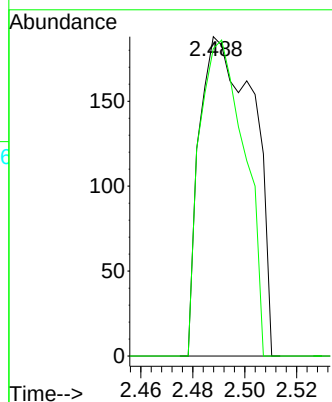
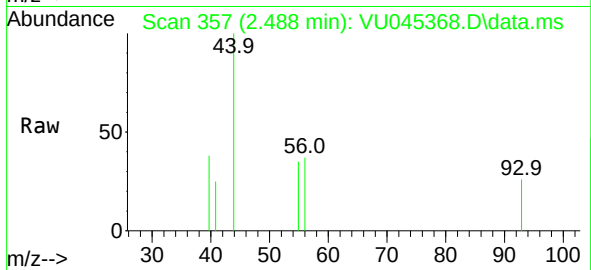




#13
Acrolein
Concen: 4.475 ug/l
RT: 2.488 min Scan# 357
Delta R.T. -0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

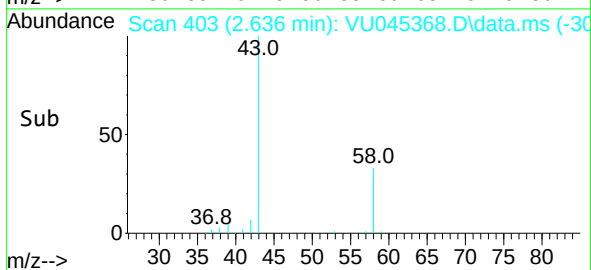
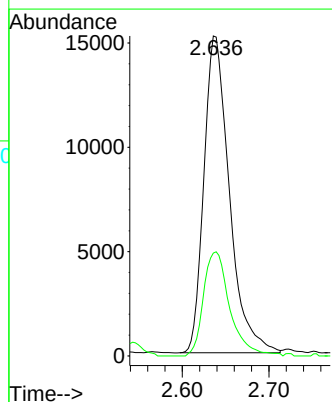
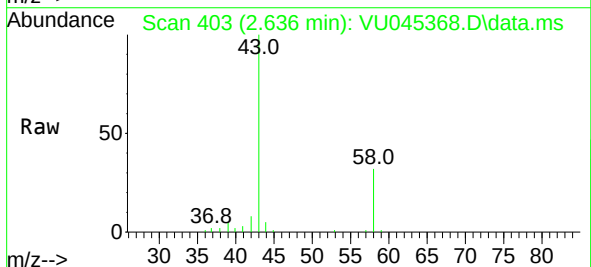
Instrument :
MSVOA_U
ClientSampled :

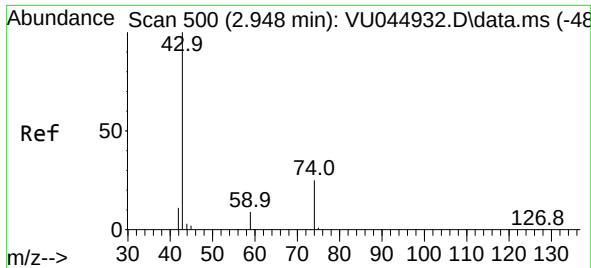
Tgt Ion: 56 Resp: 271
Ion Ratio Lower Upper
56 100
55 82.3 57.4 86.0



#16
Acetone
Concen: 14.788 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.004 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 43 Resp: 31089
Ion Ratio Lower Upper
43 100
58 32.5 25.2 37.8

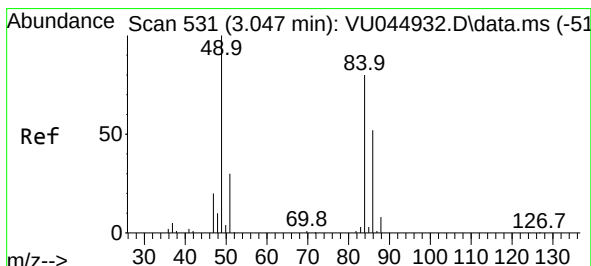
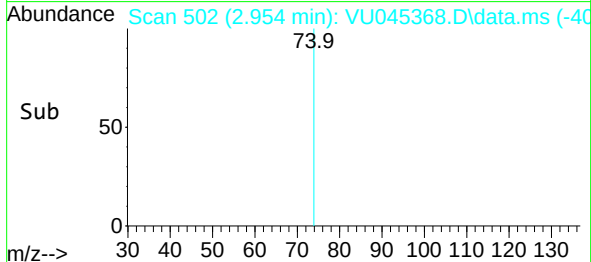
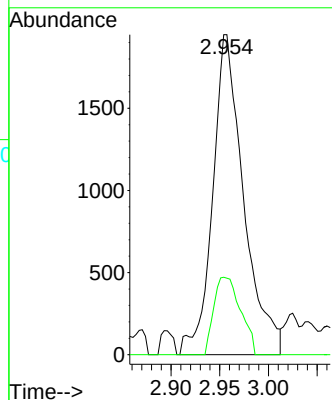
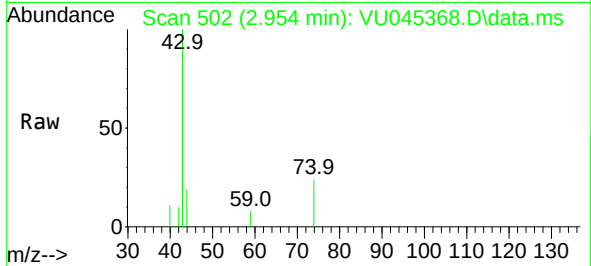




#18
Methyl Acetate
Concen: 0.701 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.006 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

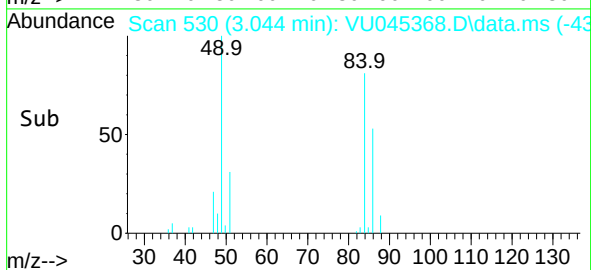
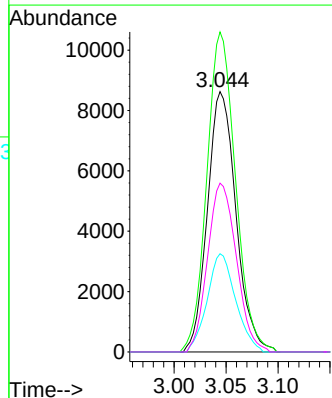
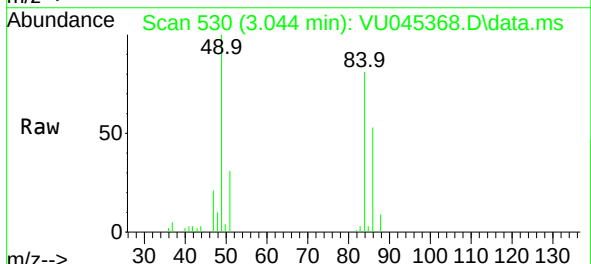
Instrument :
MSVOA_U
ClientSampled :

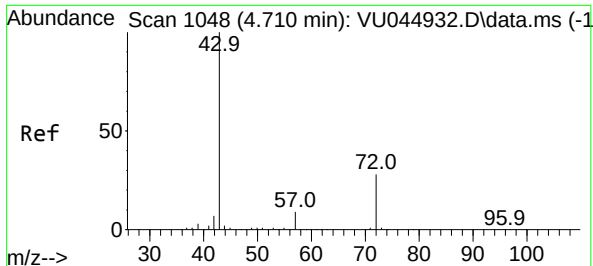
Tgt Ion: 43 Resp: 4310
Ion Ratio Lower Upper
43 100
74 20.9 19.0 28.6



#20
Methylene Chloride
Concen: 5.212 ug/l
RT: 3.044 min Scan# 530
Delta R.T. -0.003 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 84 Resp: 16503
Ion Ratio Lower Upper
84 100
49 122.9 104.9 157.3
51 37.7 31.8 47.8
86 64.8 49.8 74.6

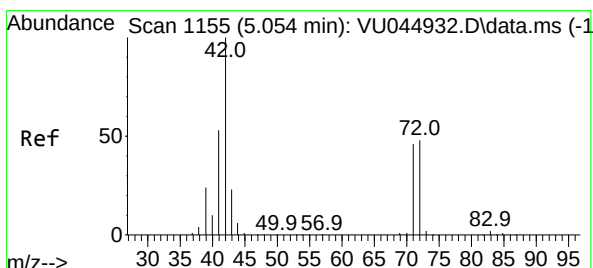
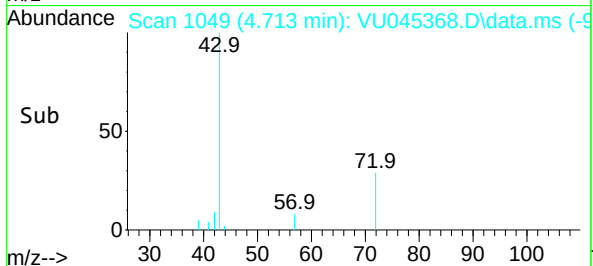
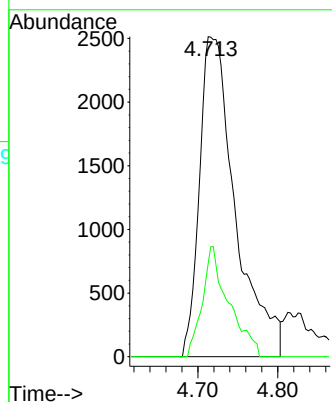
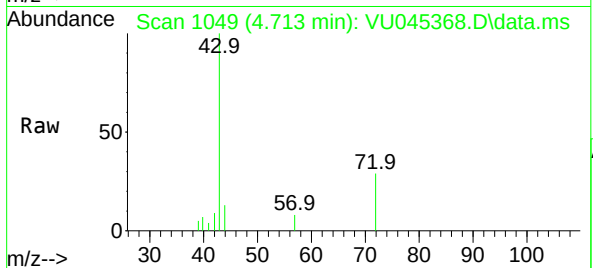




#25
2-Butanone
Concen: 2.632 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. 0.003 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

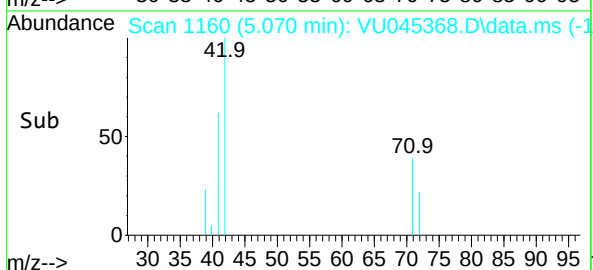
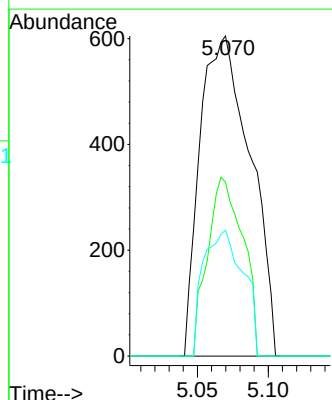
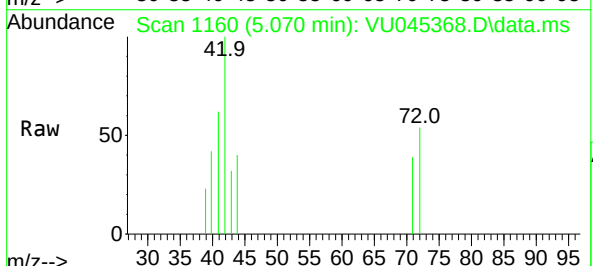
Instrument :
MSVOA_U
ClientSampled :

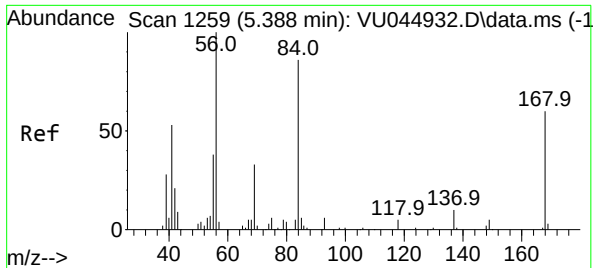
Tgt Ion: 43 Resp: 7861
Ion Ratio Lower Upper
43 100
72 29.2 21.3 31.9



#29
Tetrahydrofuran
Concen: 0.839 ug/l
RT: 5.070 min Scan# 1160
Delta R.T. 0.016 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 42 Resp: 1491
Ion Ratio Lower Upper
42 100
72 39.3 36.2 54.4
71 31.1 34.1 51.1#

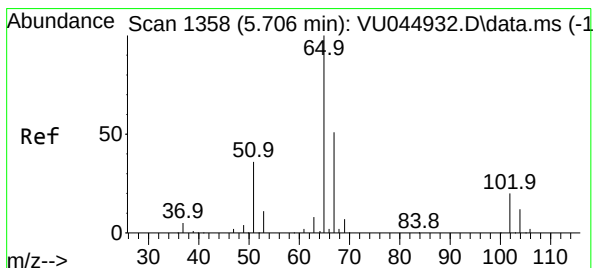
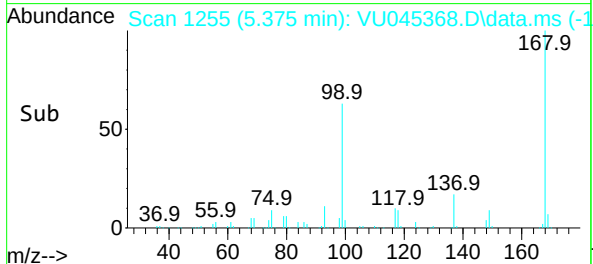
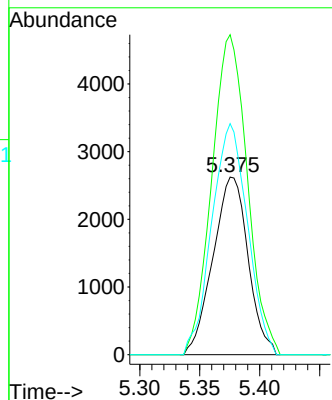
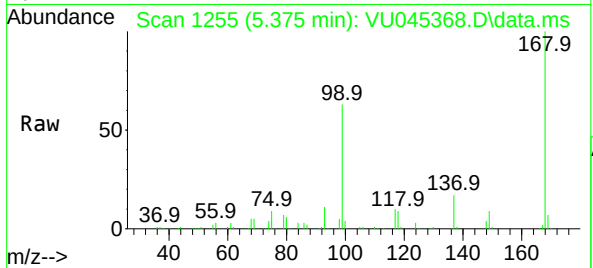




#31
Cyclohexane
Concen: 0.993 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.013 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

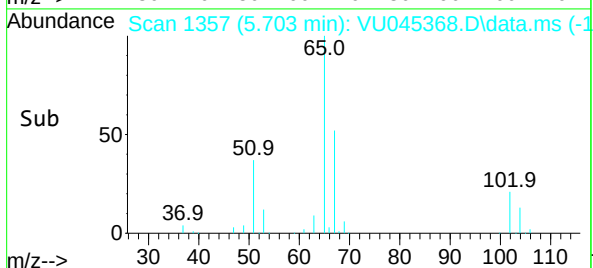
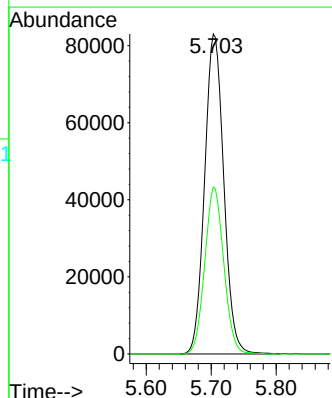
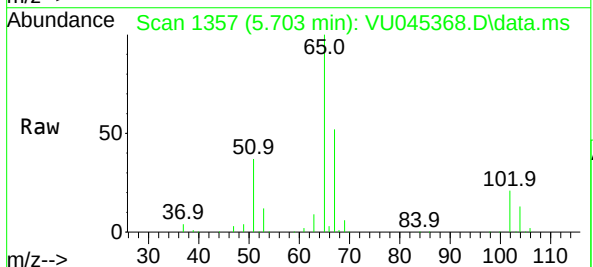
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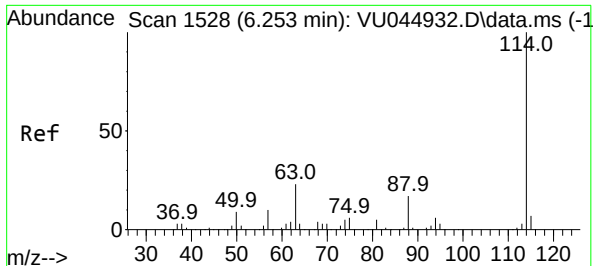
Tgt Ion: 56 Resp: 5343
Ion Ratio Lower Upper
56 100
69 180.2 25.2 37.8#
84 130.1 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 48.116 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 65 Resp: 170410
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.8

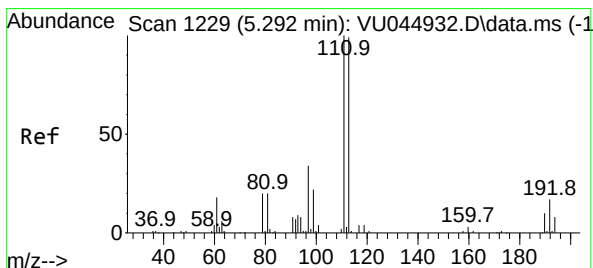
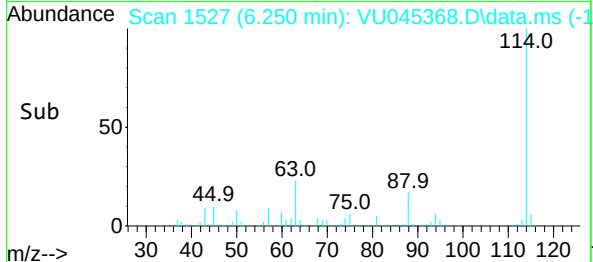
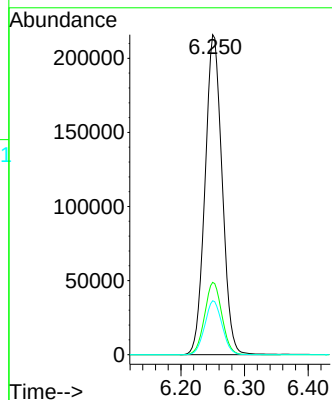
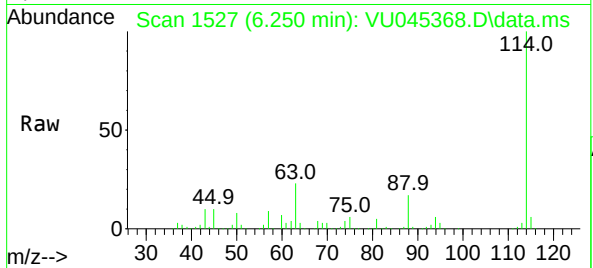




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.250 min Scan# 1527
Delta R.T. -0.003 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

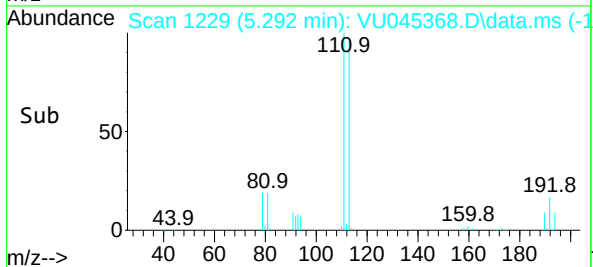
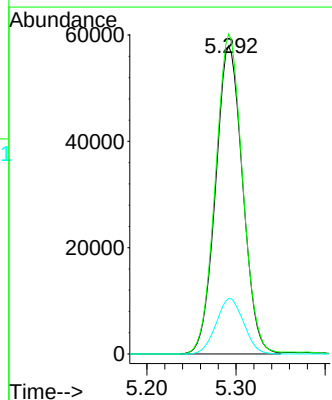
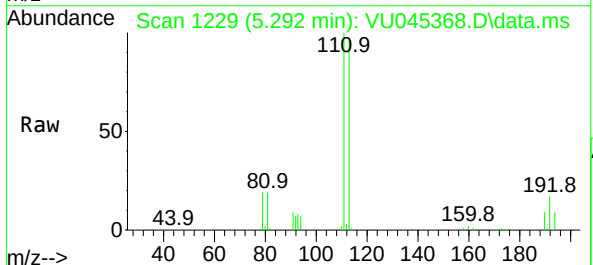
Instrument :
MSVOA_U
ClientSampleId :

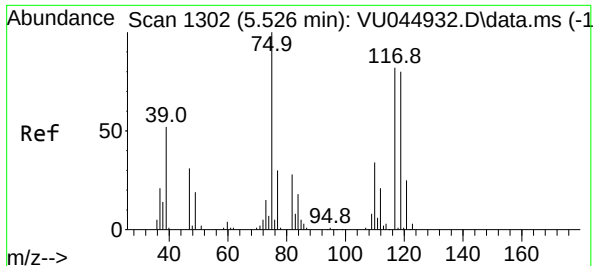
Tgt Ion:114 Resp: 402470
Ion Ratio Lower Upper
114 100
63 22.6 0.0 47.8
88 16.8 0.0 32.8



#35
Dibromofluoromethane
Concen: 48.282 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion:113 Resp: 122584
Ion Ratio Lower Upper
113 100
111 103.8 84.1 126.1
192 18.2 14.8 22.2



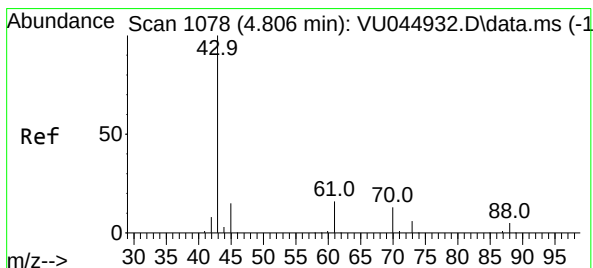
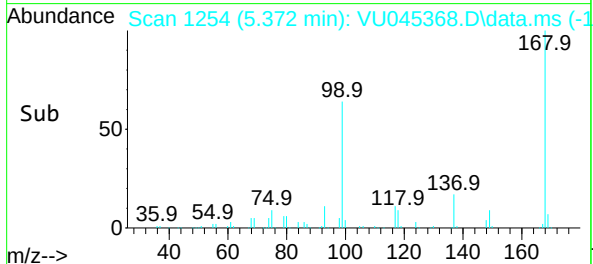
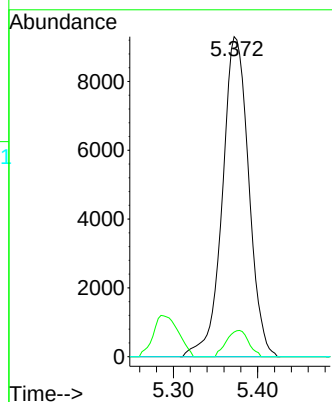
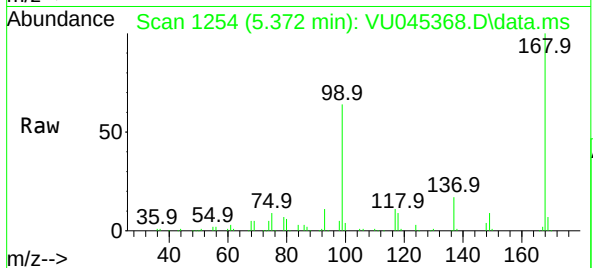


#36

1,1-Dichloropropene
Concen: 4.795 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.154 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Instrument :
MSVOA_U
ClientSampled :

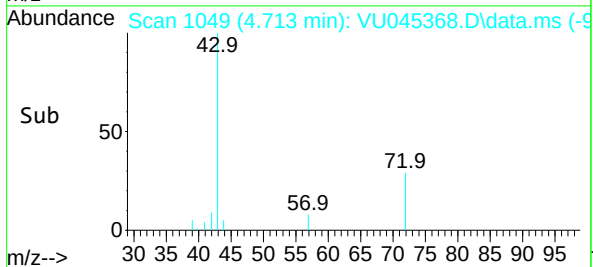
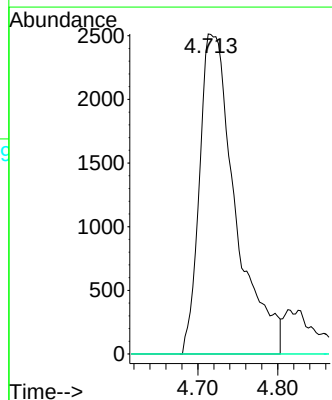
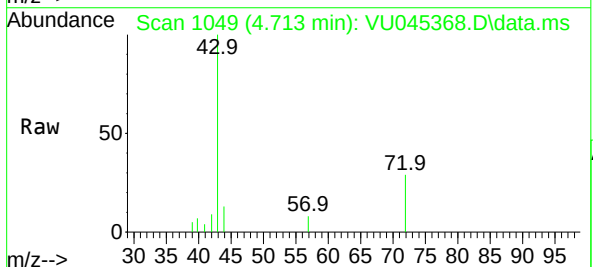
Tgt Ion: 75 Resp: 20181
Ion Ratio Lower Upper
75 100
110 6.9 16.3 48.9#
77 0.0 25.0 37.4#

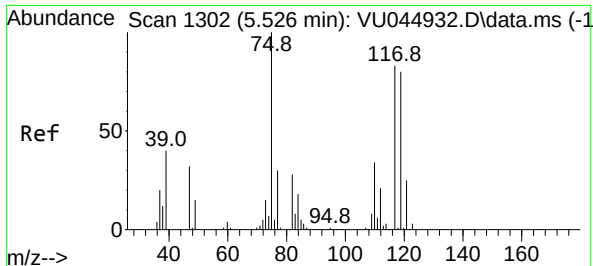


#37

Ethyl Acetate
Concen: 1.412 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. -0.093 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

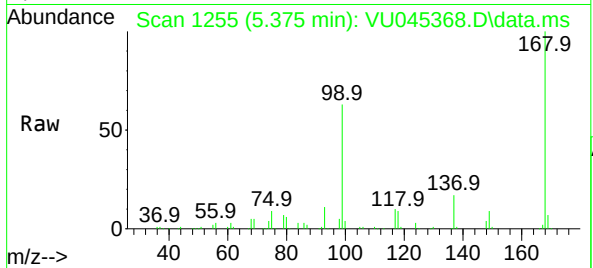
Tgt Ion: 43 Resp: 7861
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 8.2 12.4#



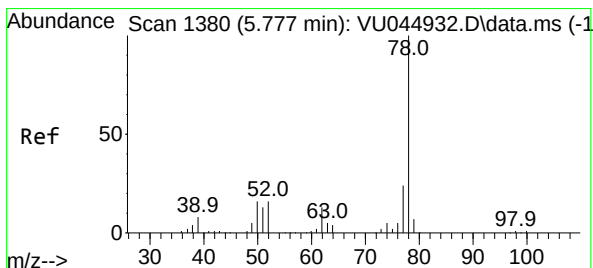
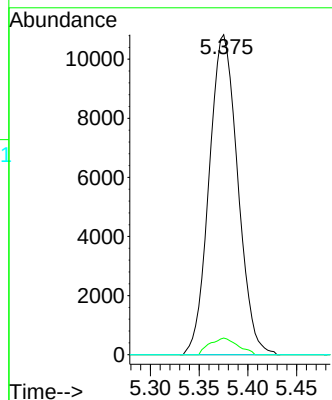
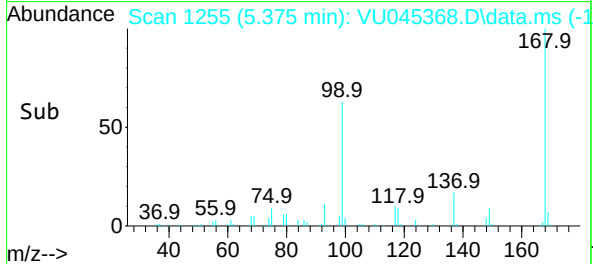


#38
Carbon Tetrachloride
Concen: 6.066 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.151 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

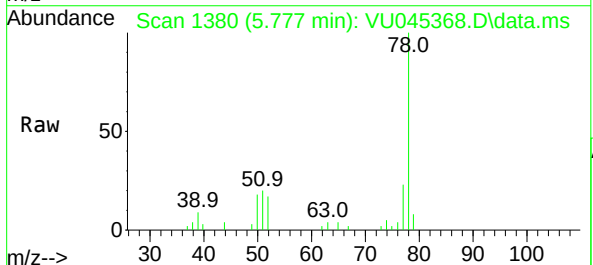
Instrument :
MSVOA_U
ClientSampled :



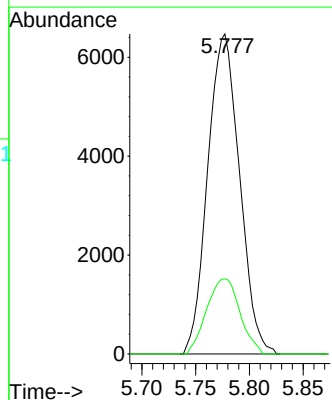
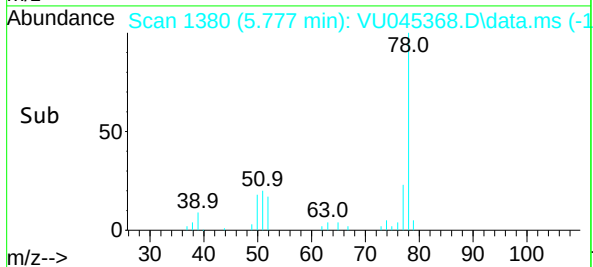
Tgt Ion:117 Resp: 22092
Ion Ratio Lower Upper
117 100
119 5.2 77.4 116.2#
121 0.0 24.5 36.7#

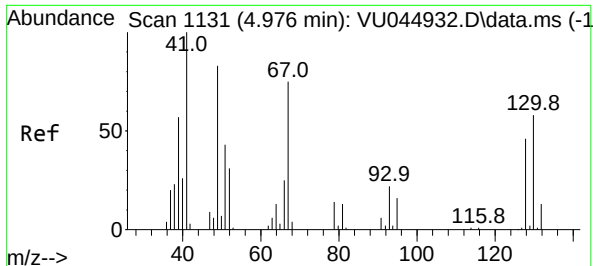


#40
Benzene
Concen: 1.062 ug/l
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35



Tgt Ion: 78 Resp: 13313
Ion Ratio Lower Upper
78 100
77 23.5 19.1 28.7





#41

Methacrylonitrile

Concen: 0.282 ug/l

RT: 5.067 min Scan# 1159

Delta R.T. 0.091 min

Lab File: VU045368.D

Acq: 22 Oct 2021 16:35

Tgt Ion: 41 Resp: 808

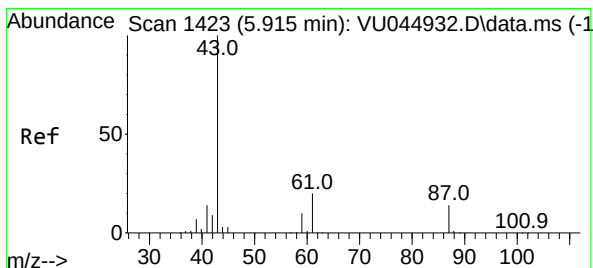
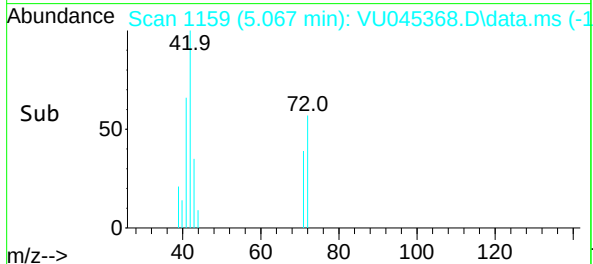
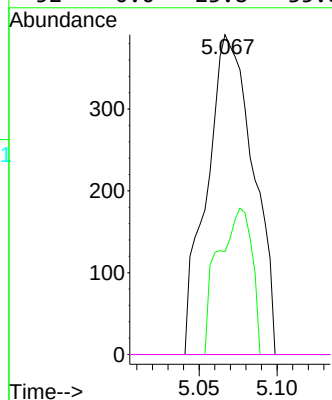
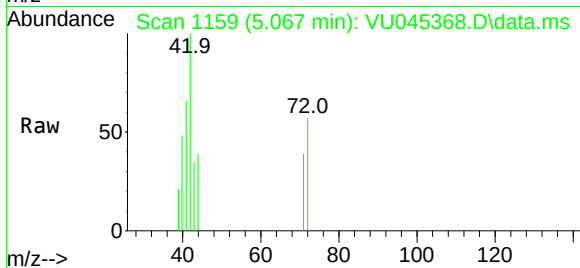
Ion Ratio Lower Upper

41 100

39 33.2 44.4 66.6#

67 0.0 58.1 87.1#

52 0.0 23.8 35.8#



#43

Isopropyl Acetate

Concen: 3.580 ug/l

RT: 5.915 min Scan# 1423

Delta R.T. 0.000 min

Lab File: VU045368.D

Acq: 22 Oct 2021 16:35

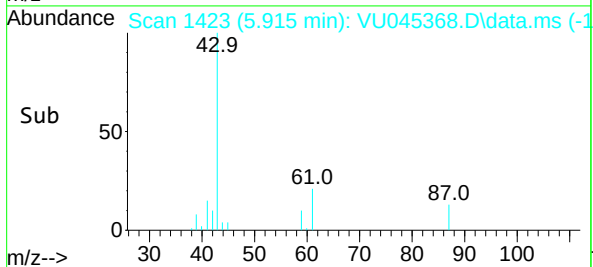
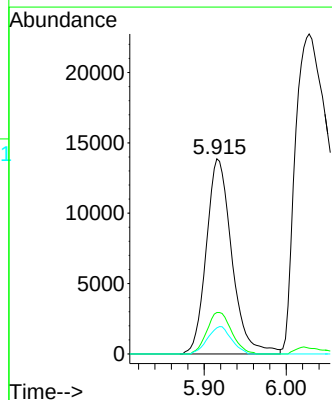
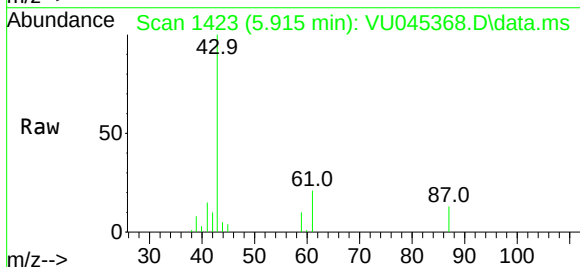
Tgt Ion: 43 Resp: 29993

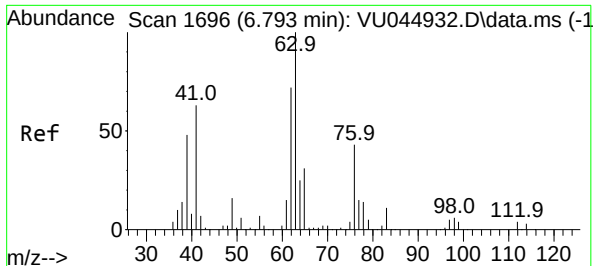
Ion Ratio Lower Upper

43 100

61 20.6 16.1 24.1

87 13.0 10.3 15.5



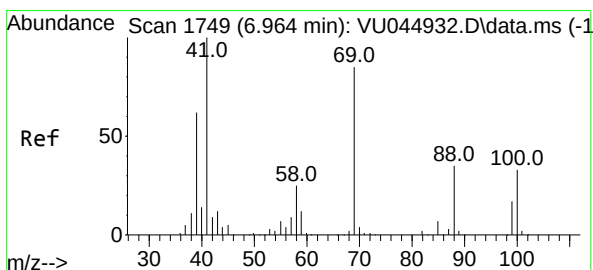
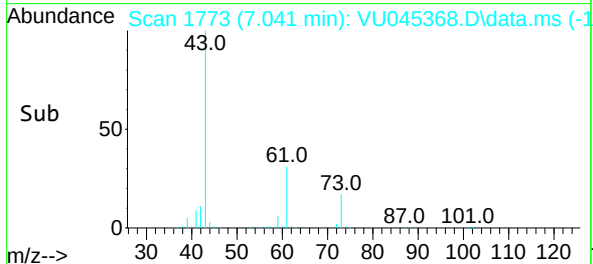
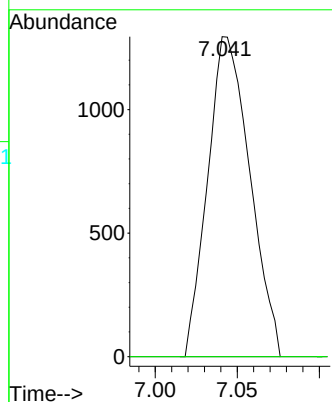
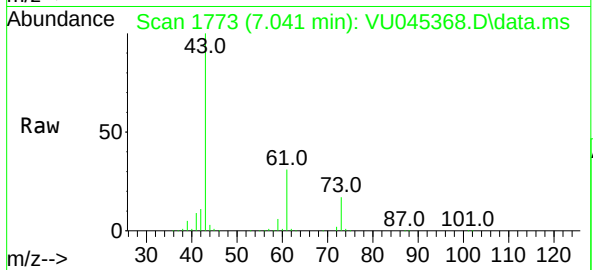


#45

1,2-Dichloropropane
Concen: 0.697 ug/l
RT: 7.041 min Scan# 1773
Delta R.T. 0.248 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Instrument :
MSVOA_U
ClientSampled :

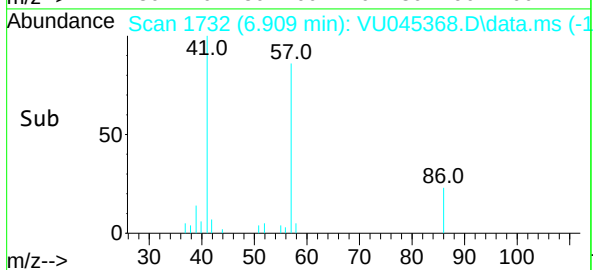
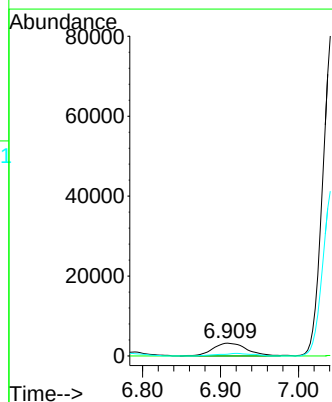
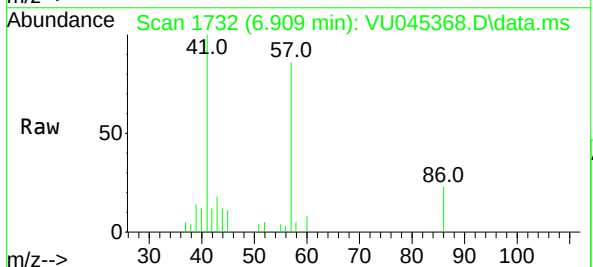
Tgt Ion: 63 Resp: 2315
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

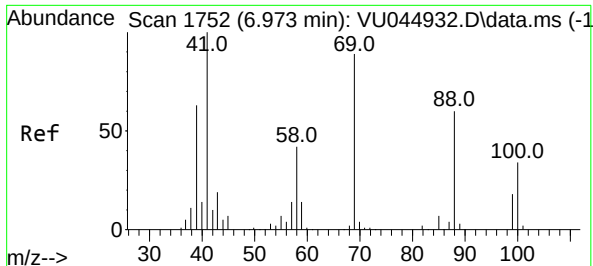


#48

Methyl methacrylate
Concen: 2.393 ug/l
RT: 6.909 min Scan# 1732
Delta R.T. -0.055 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 41 Resp: 9757
Ion Ratio Lower Upper
41 100
69 0.0 65.6 98.4#
39 0.0 46.2 69.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.044 min Scan# 1774

Delta R.T. 0.071 min

Lab File: VU045368.D

Acq: 22 Oct 2021 16:35

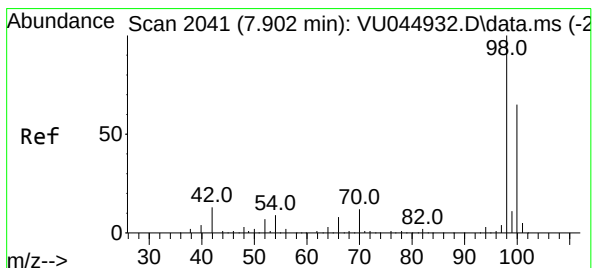
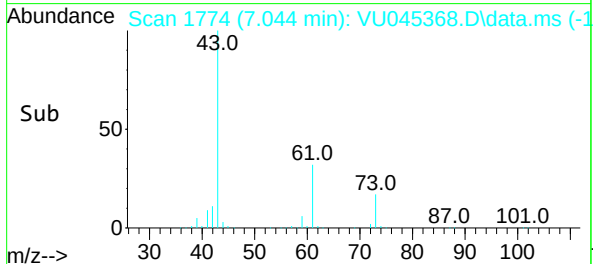
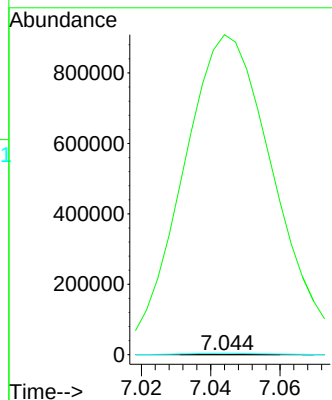
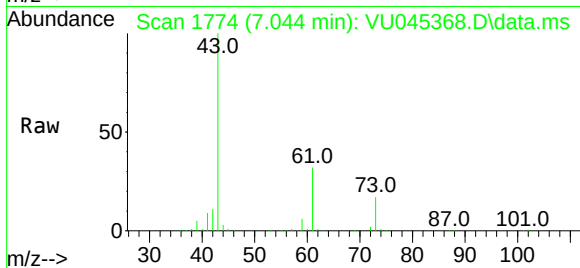
Tgt Ion: 88 Resp: 154

Ion Ratio Lower Upper

88 100

43 1107624.0 25.8 38.6#

58 4586.4 61.3 91.9#



#50

Toluene-d8

Concen: 49.831 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. -0.003 min

Lab File: VU045368.D

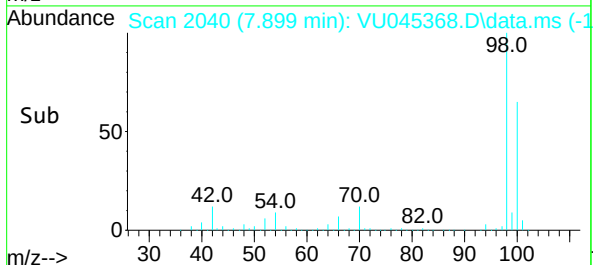
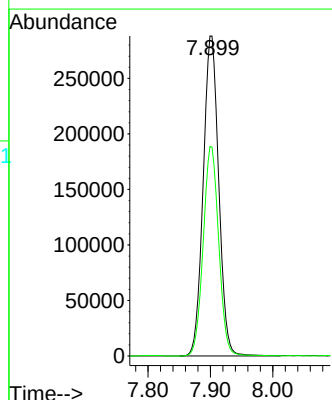
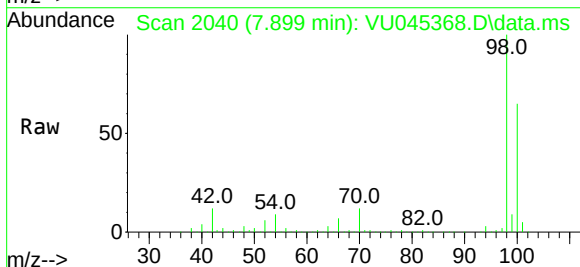
Acq: 22 Oct 2021 16:35

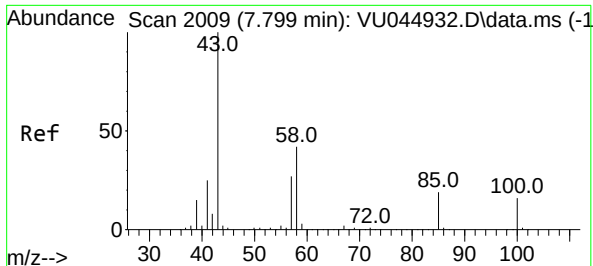
Tgt Ion: 98 Resp: 499893

Ion Ratio Lower Upper

98 100

100 65.5 52.5 78.7

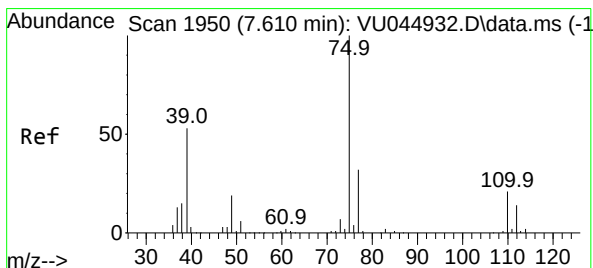
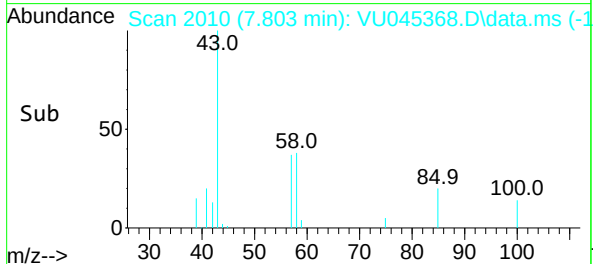
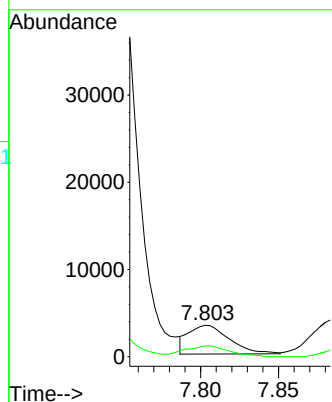
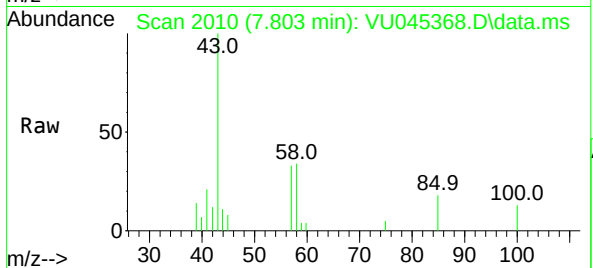




#51
4-Methyl-2-Pentanone
Concen: 0.985 ug/l
RT: 7.803 min Scan# 2010
Delta R.T. 0.004 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

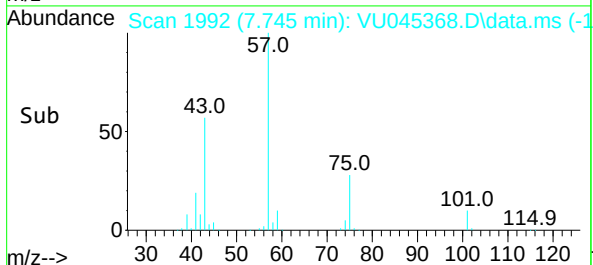
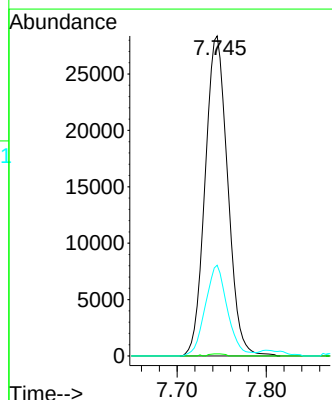
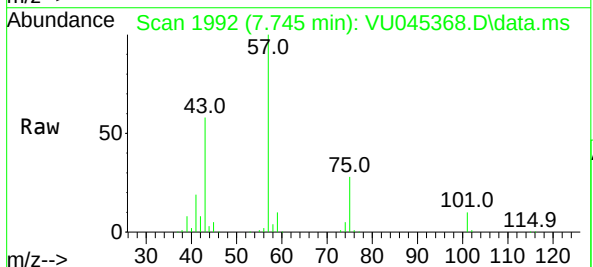
Instrument :
MSVOA_U
ClientSampled :

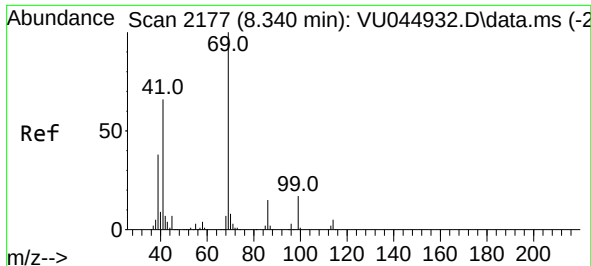
Tgt Ion: 43 Resp: 6007
Ion Ratio Lower Upper
43 100
58 40.9 32.4 48.6



#54
cis-1,3-Dichloropropene
Concen: 9.635 ug/l
RT: 7.745 min Scan# 1992
Delta R.T. 0.135 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 75 Resp: 49890
Ion Ratio Lower Upper
75 100
77 0.6 25.0 37.6#
39 28.3 41.4 62.2#

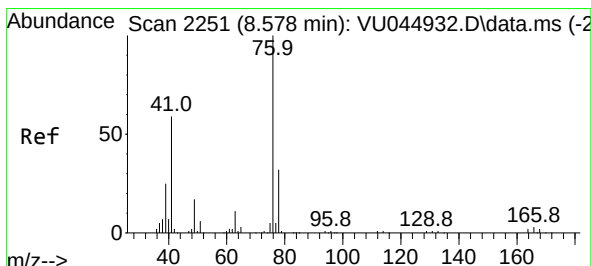
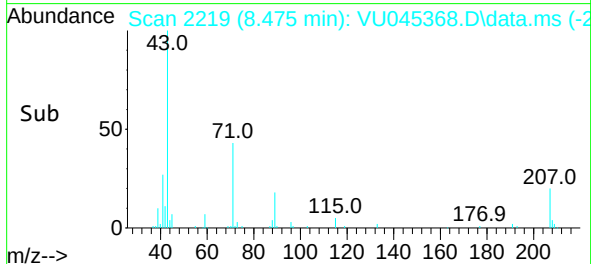
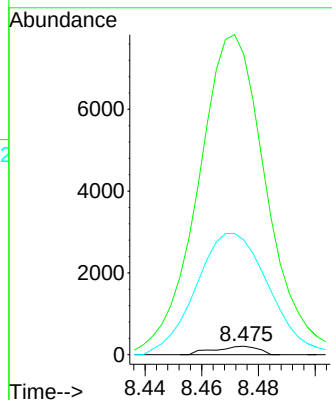
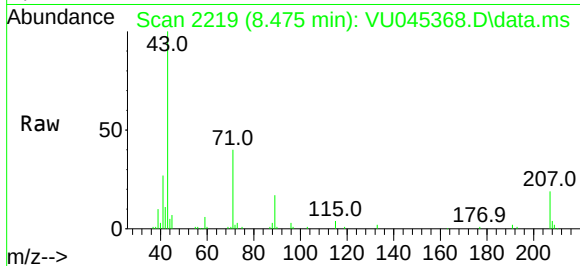




#56
Ethyl methacrylate
Concen: 1.855 ug/l
RT: 8.475 min Scan# 2219
Delta R.T. 0.135 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

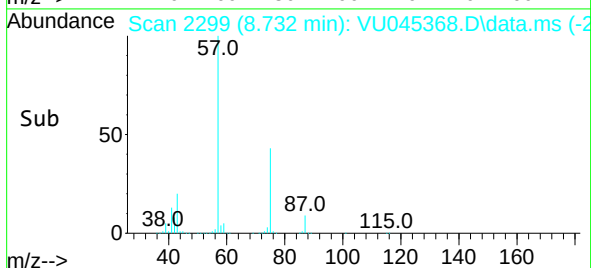
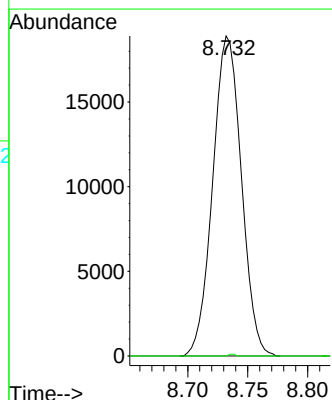
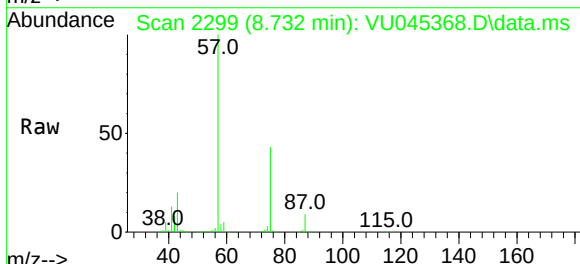
Instrument :
MSVOA_U
ClientSampled :

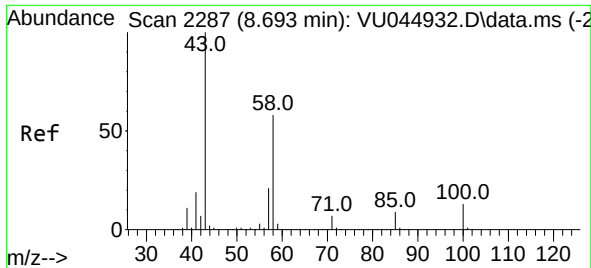
Tgt Ion: 69 Resp: 223
Ion Ratio Lower Upper
69 100
41 5898.2 53.5 80.3#
39 2382.5 31.1 46.7#



#57
1,3-Dichloropropane
Concen: 5.376 ug/l
RT: 8.732 min Scan# 2299
Delta R.T. 0.154 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 76 Resp: 31365
Ion Ratio Lower Upper
76 100
78 0.1 25.7 38.5#

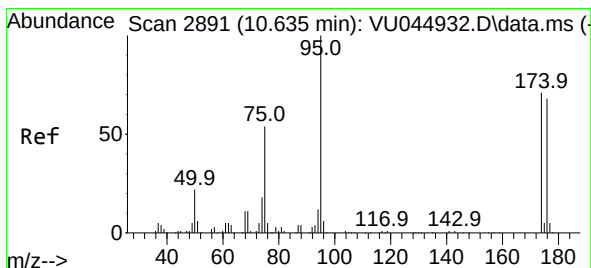
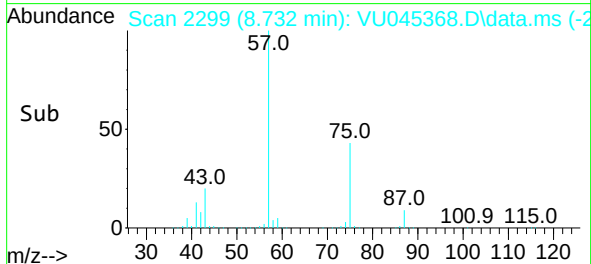
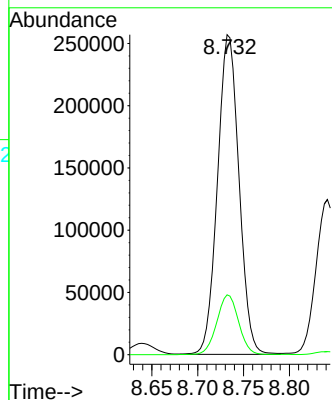
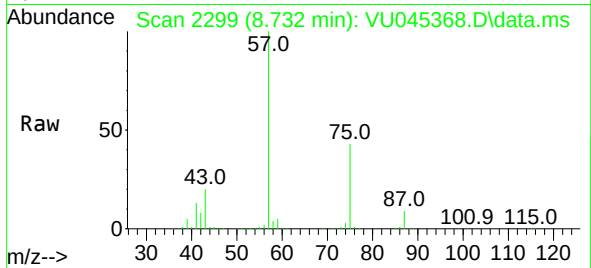




#59
2-Hexanone
Concen: 84.311 ug/l
RT: 8.732 min Scan# 2299
Delta R.T. 0.039 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

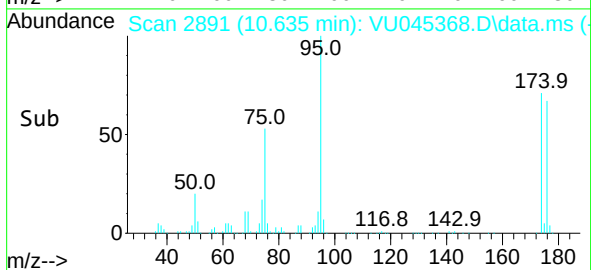
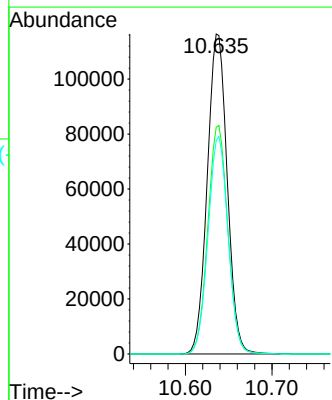
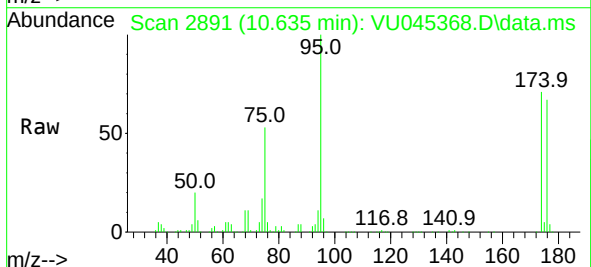
Instrument :
MSVOA_U
ClientSampled :

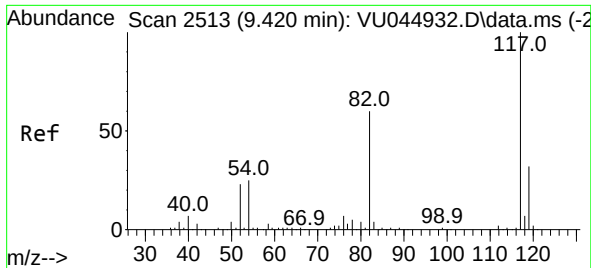
Tgt Ion: 43 Resp: 418760
Ion Ratio Lower Upper
43 100
58 19.0 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 45.007 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. 0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 95 Resp: 186401
Ion Ratio Lower Upper
95 100
174 71.5 0.0 146.6
176 68.1 0.0 141.2

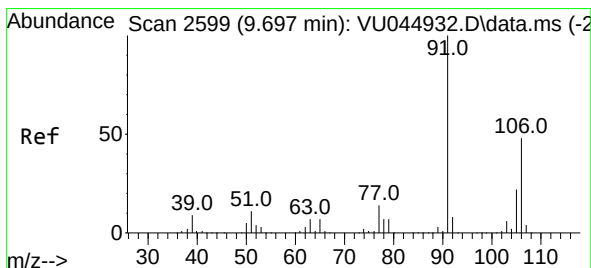
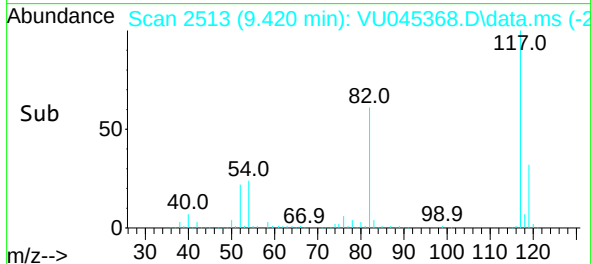
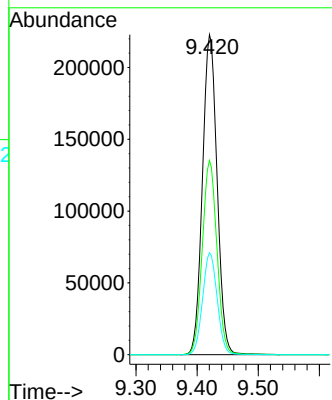
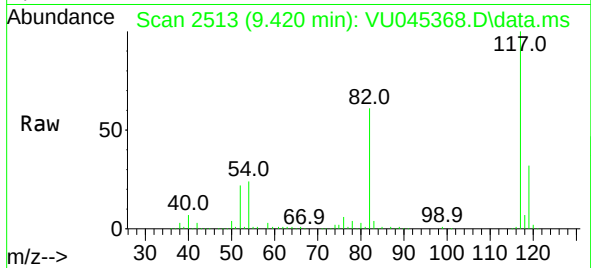




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

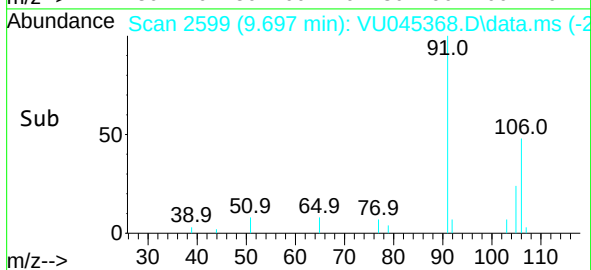
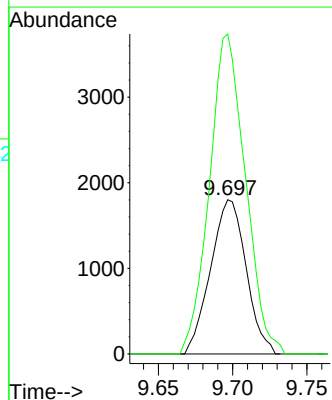
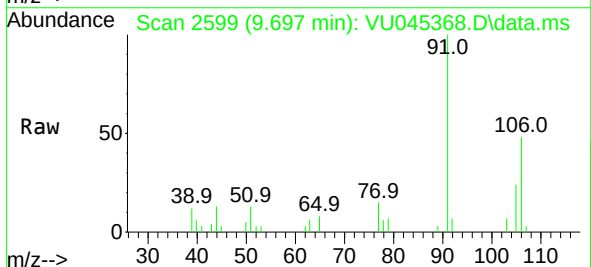
Instrument :
MSVOA_U
ClientSampled :

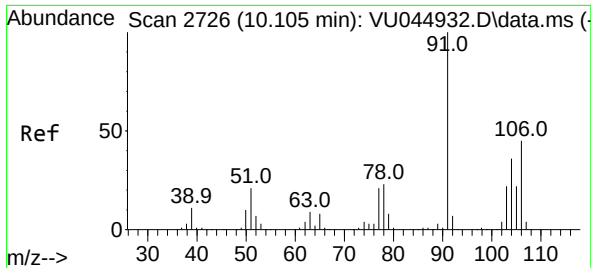
Tgt Ion:117 Resp: 371204
Ion Ratio Lower Upper
117 100
82 60.7 47.8 71.8
119 31.9 25.8 38.6



#68
m/p-Xylenes
Concen: 0.538 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. -0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion:106 Resp: 2996
Ion Ratio Lower Upper
106 100
91 209.8 164.2 246.2

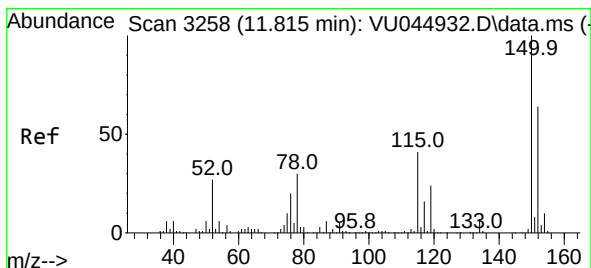
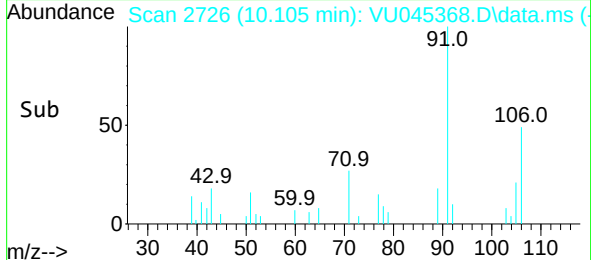
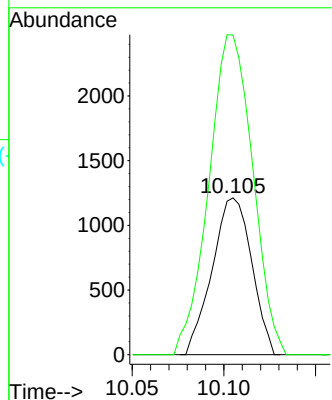
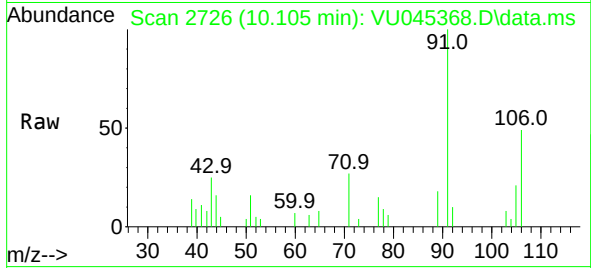




#69
o-Xylene
Concen: 0.329 ug/l
RT: 10.105 min Scan# 2726
Delta R.T. -0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

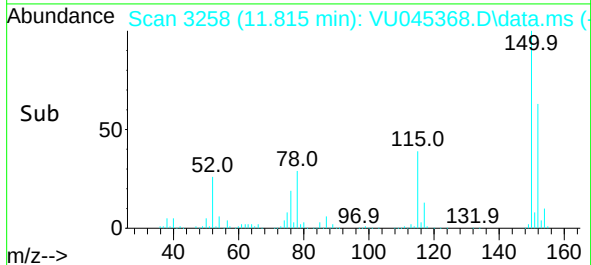
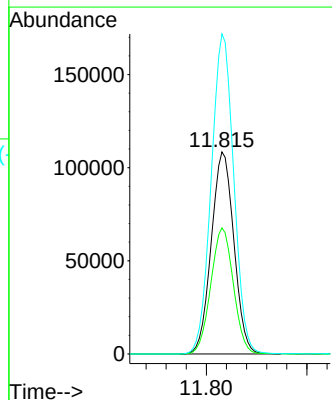
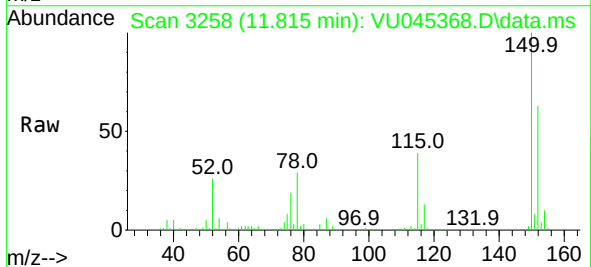
Instrument :
MSVOA_U
ClientSampleId :

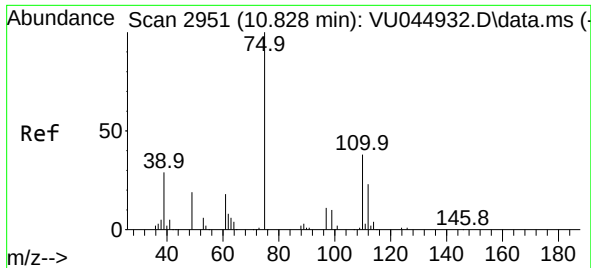
Tgt Ion:106 Resp: 1817
Ion Ratio Lower Upper
106 100
91 226.3 108.9 326.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion:152 Resp: 169487
Ion Ratio Lower Upper
152 100
115 62.2 43.5 130.7
150 157.6 0.0 350.0

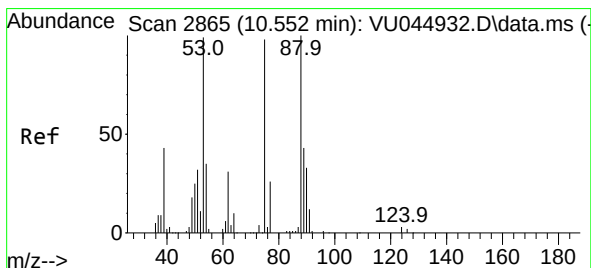
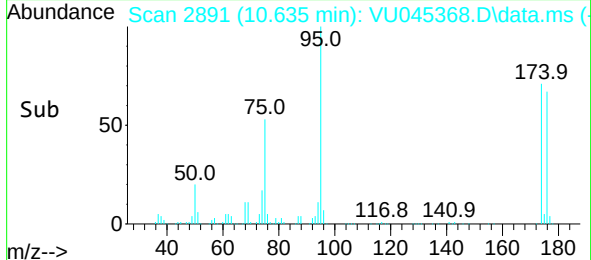
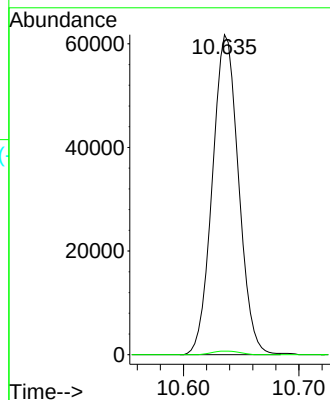
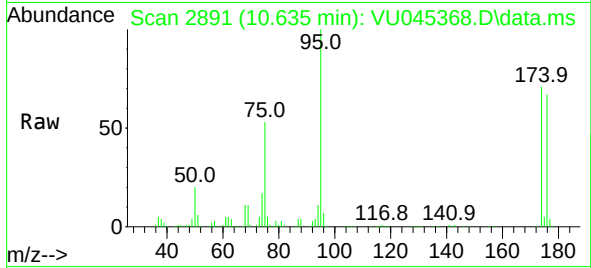




#76
1,2,3-Trichloropropane
Concen: 19.701 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.193 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

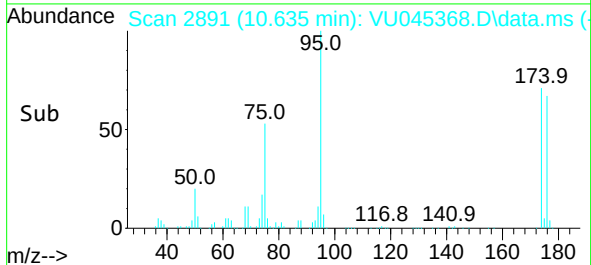
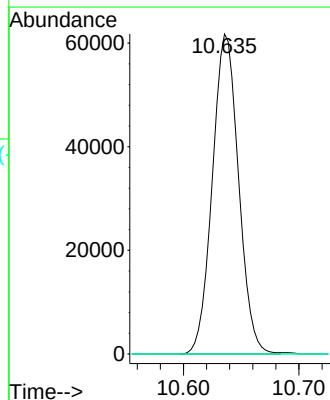
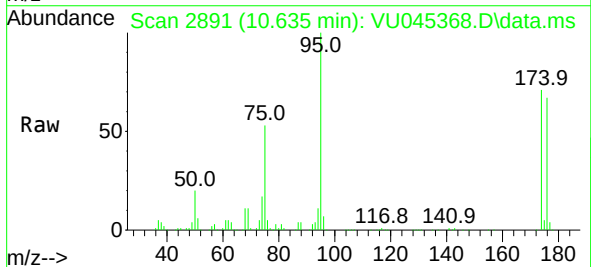
Instrument :
MSVOA_U
ClientSampled :

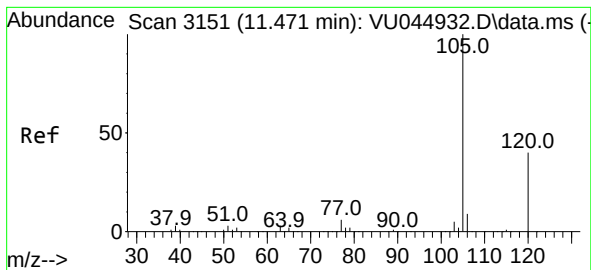
Tgt Ion: 75 Resp: 97393
Ion Ratio Lower Upper
75 100
77 1.2 17.9 53.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.673 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. 0.083 min
Lab File: VU045368.D
Acq: 22 Oct 2021 16:35

Tgt Ion: 75 Resp: 97393
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#





#84
 1,2,4-Trimethylbenzene
 Concen: 0.269 ug/l
 RT: 11.475 min Scan# 3152
 Delta R.T. 0.004 min
 Lab File: VU045368.D
 Acq: 22 Oct 2021 16:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:105 Resp: 2943
 Ion Ratio Lower Upper
 105 100
 120 38.5 22.4 67.3

