

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU060122\
 Data File : VU048789.D
 Acq On : 01 Jun 2022 18:53
 Operator : SY/MD
 Sample : N3099-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0603

Quant Time: Jun 02 05:07:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052622W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 27 06:42:31 2022
 Response via : Initial Calibration

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

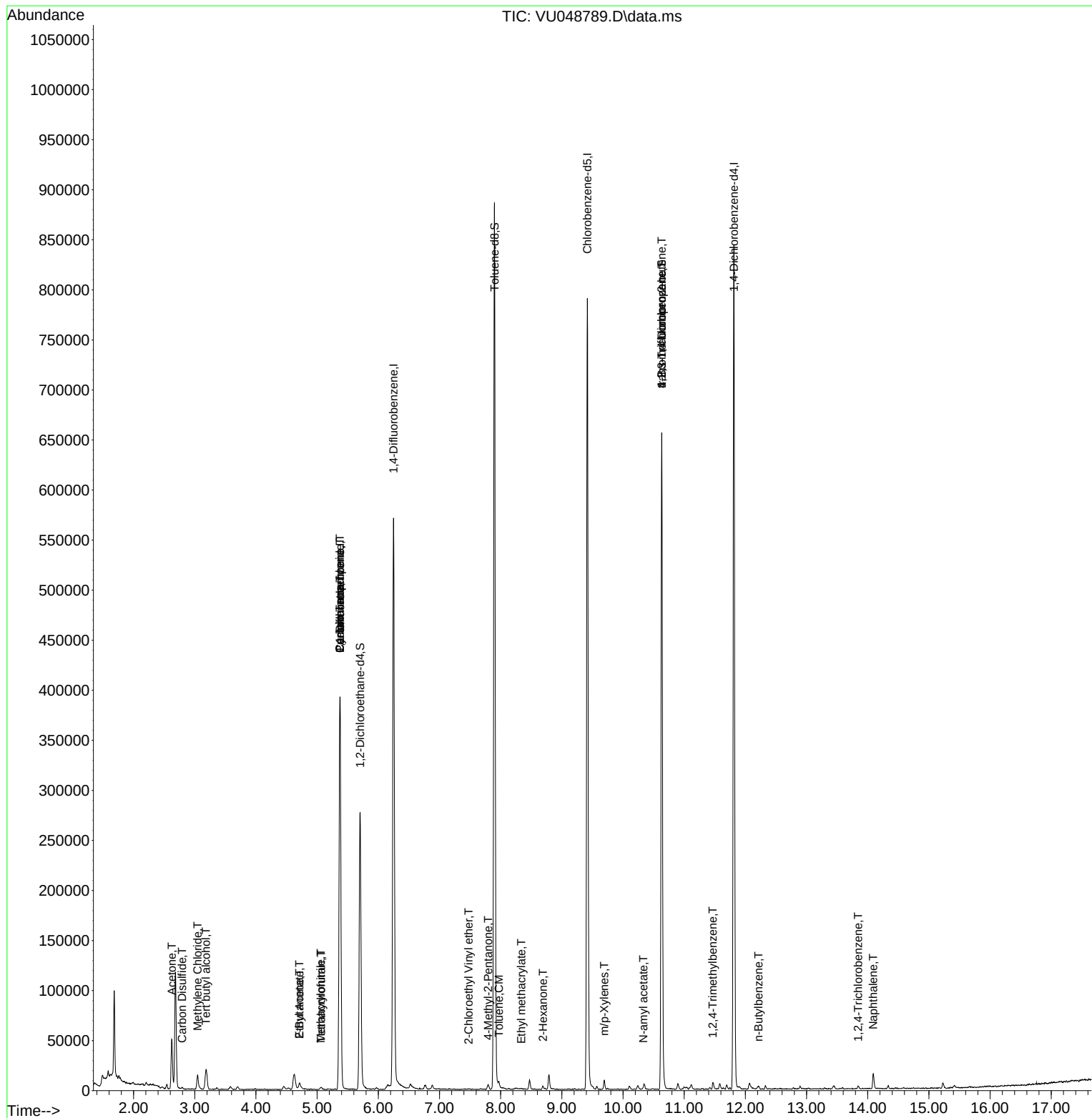
Internal Standards						
1) Pentafluorobenzene	5.375	168	274565	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	467365	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	440589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	221372	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	213207	51.706	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.420%			
35) Dibromofluoromethane	5.289	113	262	0.079	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 0.160%#			
50) Toluene-d8	7.899	98	596350	49.895	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.780%			
62) 4-Bromofluorobenzene	10.632	95	226074	50.014	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.020%			
Target Compounds						
					Qvalue	
5) Bromomethane	1.851	94	184	Below Cal	#	3
6) Chloroethane	1.970	64	315	Below Cal	#	43
11) Tert butyl alcohol	3.183	59	12583	12.036	ug/l #	29
13) Acrolein	2.491	56	523	Below Cal	#	1
16) Acetone	2.623	43	56063	26.679	ug/l	97
17) Carbon Disulfide	2.794	76	1938	0.238	ug/l	96
20) Methylene Chloride	3.044	84	6492	1.817	ug/l	93
25) 2-Butanone	4.710	43	10019	3.319	ug/l	95
29) Tetrahydrofuran	5.067	42	1603	0.843	ug/l #	65
31) Cyclohexane	5.372	56	6127	1.179	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	21669	4.453	ug/l #	49
37) Ethyl Acetate	4.710	43	10019	1.629	ug/l #	68
38) Carbon Tetrachloride	5.372	117	28780	5.155	ug/l #	17
41) Methacrylonitrile	5.060	41	885	0.285	ug/l #	46
51) 4-Methyl-2-Pentanone	7.797	43	3994	0.689	ug/l	93
52) Toluene	7.973	92	1878	0.219	ug/l	82
56) Ethyl methacrylate	8.340	69	121	2.632	ug/l #	63
58) 2-Chloroethyl Vinyl ether	7.475	63	165	29.865	ug/l #	47
59) 2-Hexanone	8.694	43	2751	0.578	ug/l	88
64) Tetrachloroethene	8.552	164	143	Below Cal	#	1
68) m/p-Xylenes	9.694	106	2554	0.415	ug/l	93
74) N-amyl acetate	10.330	43	554	2.540	ug/l #	41
76) 1,2,3-Trichloropropane	10.632	75	113267	15.869	ug/l #	47
81) trans-1,4-Dichloro-2-b...	10.632	75	113267	57.619	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.468	105	3906	1.472	ug/l	85
89) n-Butylbenzene	12.214	91	1507	2.298	ug/l #	40
93) 1,2,4-Trichlorobenzene	13.841	180	1178	0.236	ug/l	82
95) Naphthalene	14.089	128	13783	3.284	ug/l	97

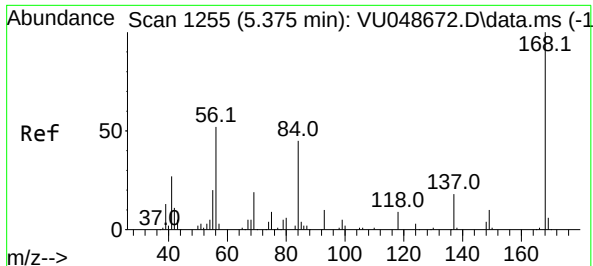
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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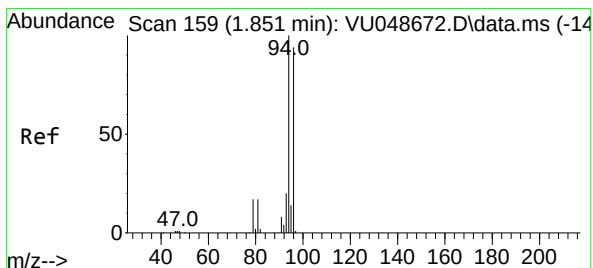
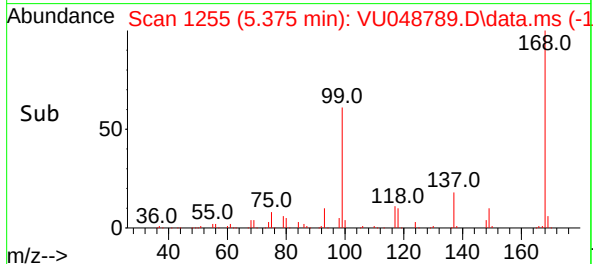
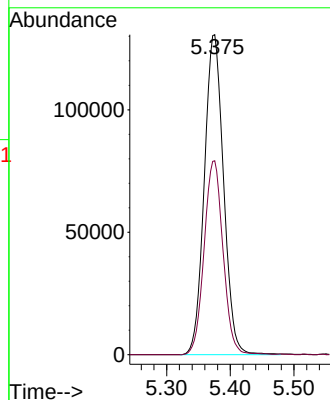
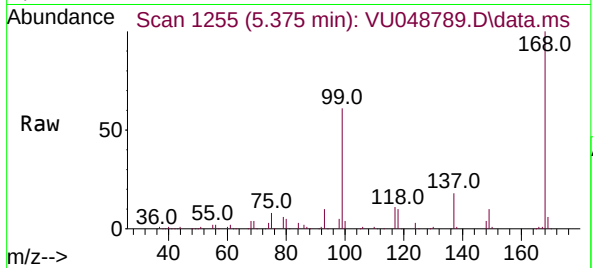




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

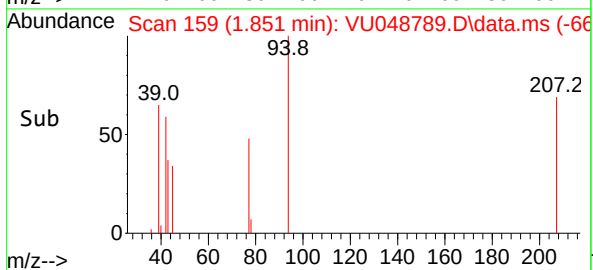
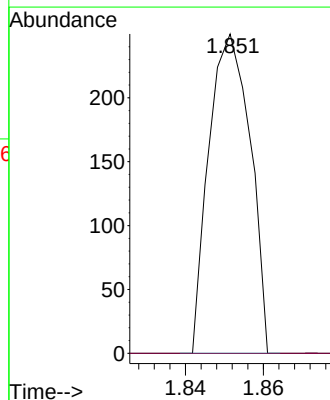
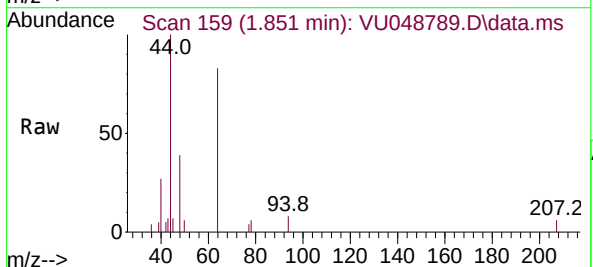
Instrument :
MSVOA_U
ClientSampleId :
VU0603

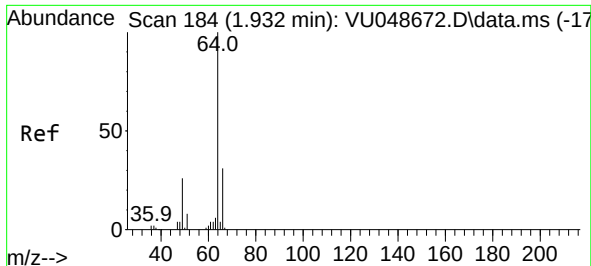
Tgt Ion:168 Resp: 274565
Ion Ratio Lower Upper
168 100
99 60.6 49.3 73.9



#5
Bromomethane
Concen: Below Cal
RT: 1.851 min Scan# 159
Delta R.T. 0.000 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 94 Resp: 184
Ion Ratio Lower Upper
94 100
96 0.0 75.1 112.7#

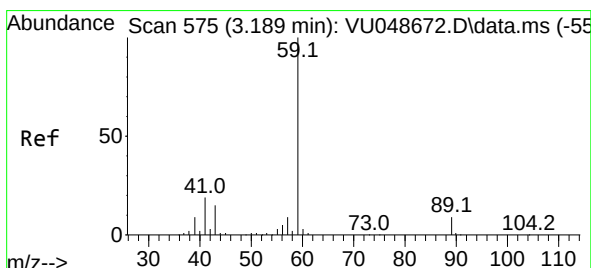
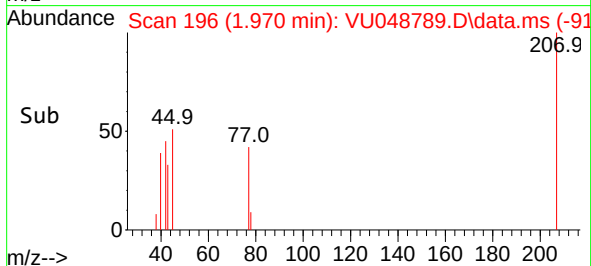
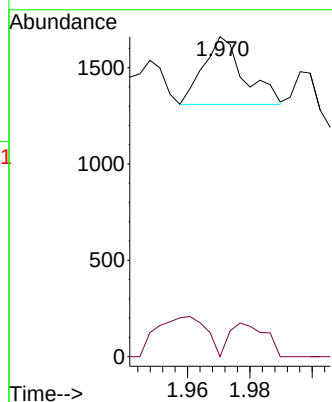
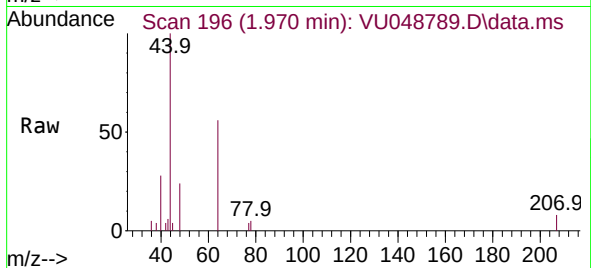




#6
Chloroethane
Concen: Below Cal
RT: 1.970 min Scan# 196
Delta R.T. 0.038 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

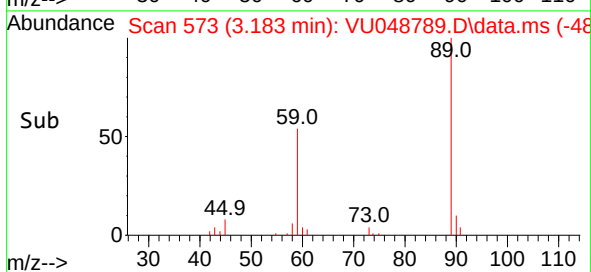
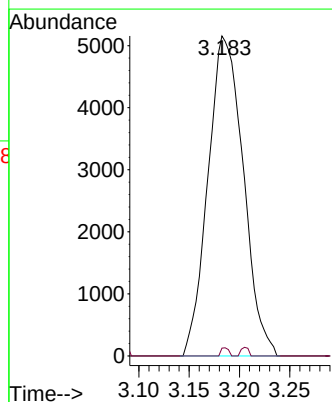
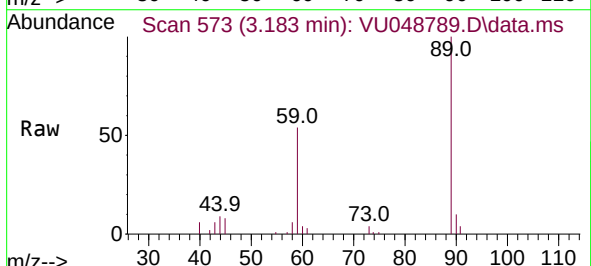
Instrument :
MSVOA_U
ClientSampleId :
VU0603

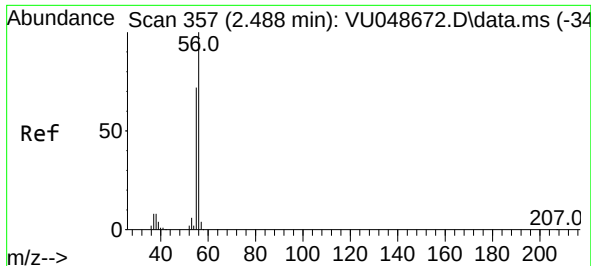
Tgt Ion: 64 Resp: 315
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#



#11
Tert butyl alcohol
Concen: 12.036 ug/l
RT: 3.183 min Scan# 573
Delta R.T. -0.006 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 59 Resp: 12583
Ion Ratio Lower Upper
59 100
57 0.6 39.7 59.5#

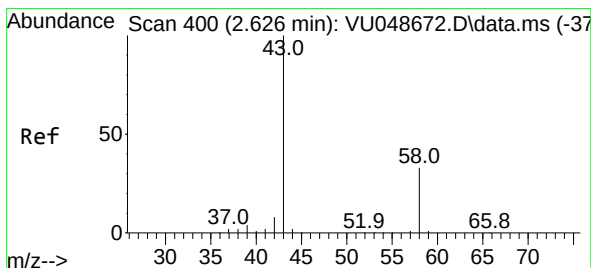
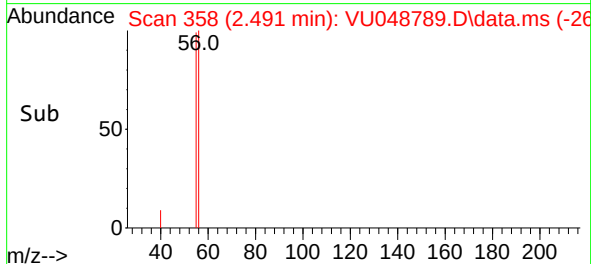
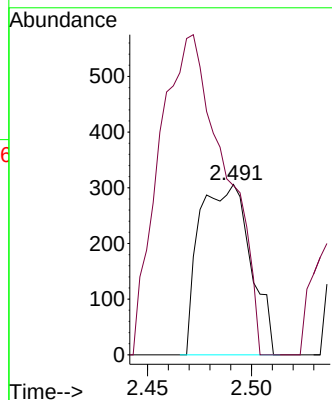
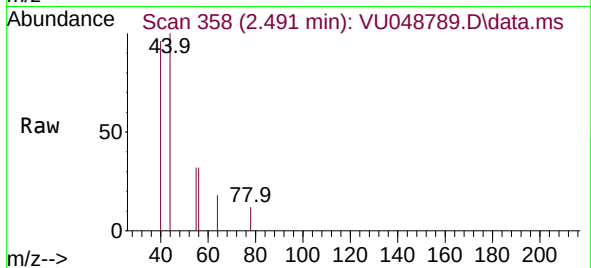




#13
Acrolein
Concen: Below Cal
RT: 2.491 min Scan# 311
Delta R.T. 0.003 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

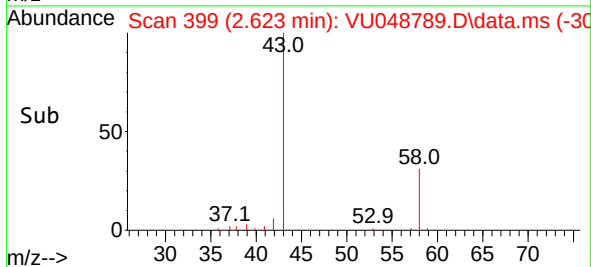
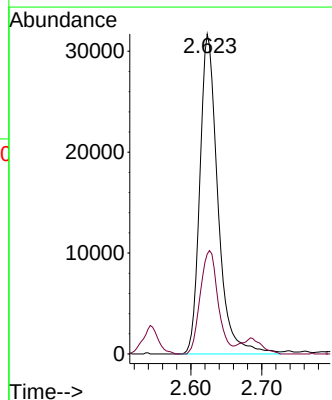
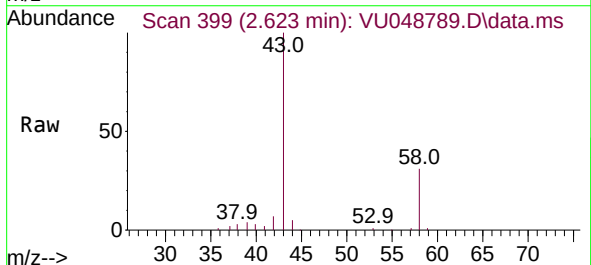
Instrument :
MSVOA_U
ClientSampleId :
VU0603

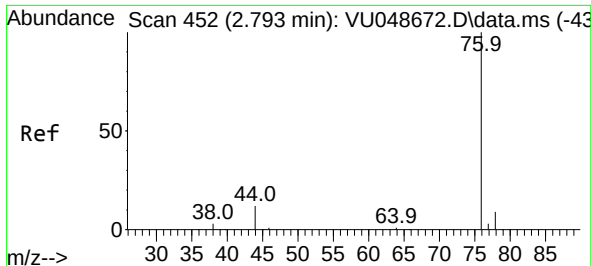
Tgt Ion: 56 Resp: 523
Ion Ratio Lower Upper
56 100
55 243.8 57.7 86.5#



#16
Acetone
Concen: 26.679 ug/l
RT: 2.623 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 43 Resp: 56063
Ion Ratio Lower Upper
43 100
58 31.3 26.3 39.5





#17

Carbon Disulfide

Concen: 0.238 ug/l

RT: 2.794 min Scan# 4

Delta R.T. 0.000 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

Instrument :

MSVOA_U

ClientSampleId :

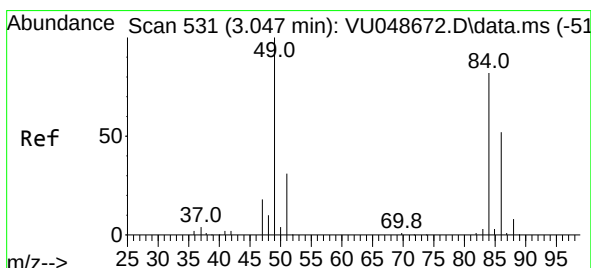
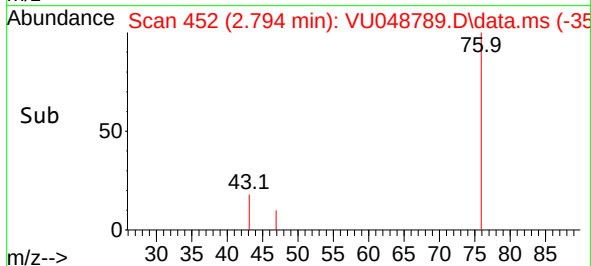
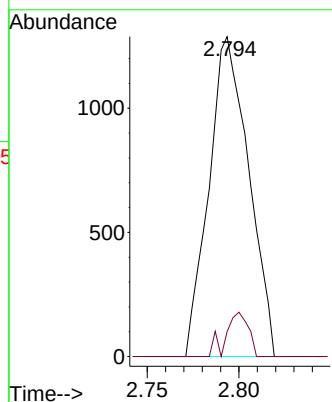
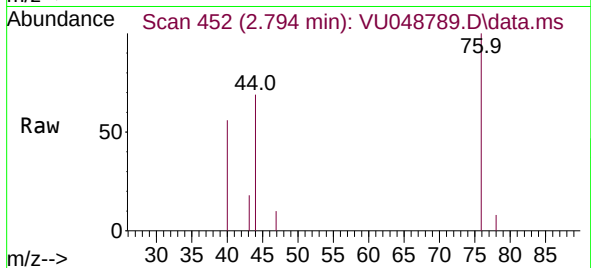
VU0603

Tgt Ion: 76 Resp: 1938

Ion Ratio Lower Upper

76 100

78 7.8 7.3 10.9



#20

Methylene Chloride

Concen: 1.817 ug/l

RT: 3.044 min Scan# 530

Delta R.T. -0.003 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

Tgt Ion: 84 Resp: 6492

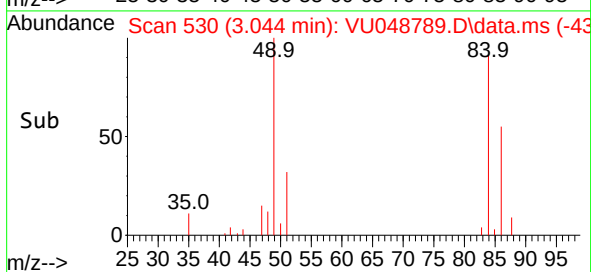
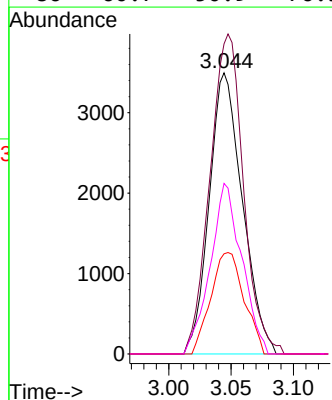
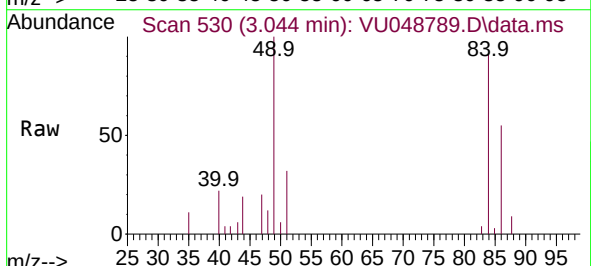
Ion Ratio Lower Upper

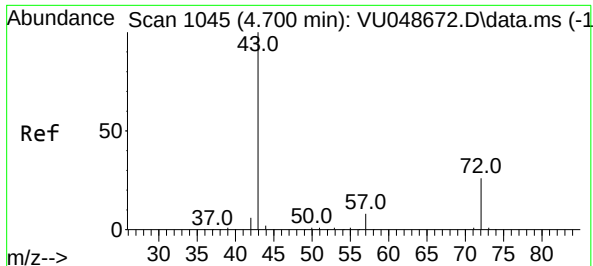
84 100

49 110.3 97.0 145.4

51 35.6 29.8 44.8

86 60.7 50.9 76.3





#25

2-Butanone

Concen: 3.319 ug/l

RT: 4.710 min Scan# 110

Delta R.T. 0.010 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

Instrument :

MSVOA_U

ClientSampleId :

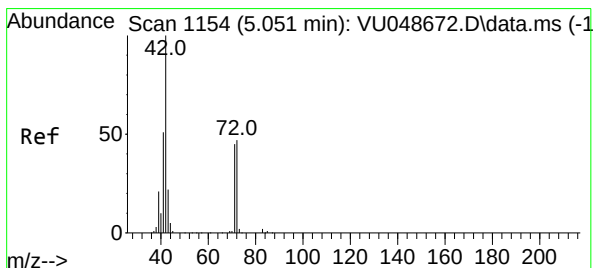
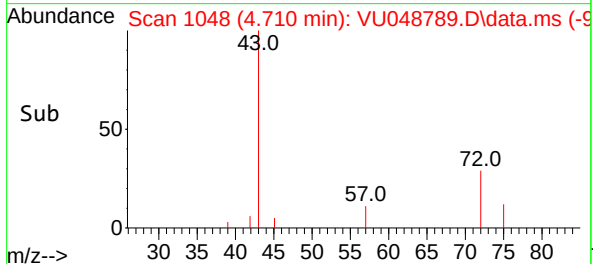
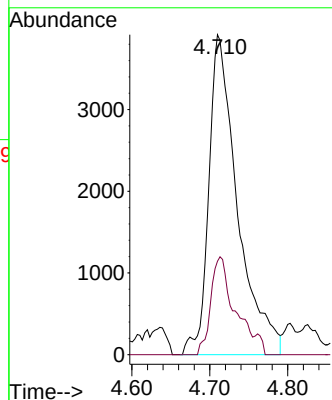
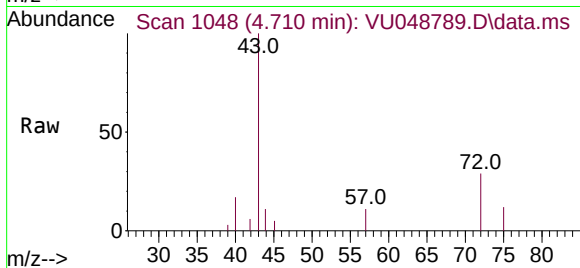
VU0603

Tgt Ion: 43 Resp: 10019

Ion Ratio Lower Upper

43 100

72 29.2 21.1 31.7



#29

Tetrahydrofuran

Concen: 0.843 ug/l

RT: 5.067 min Scan# 1159

Delta R.T. 0.016 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

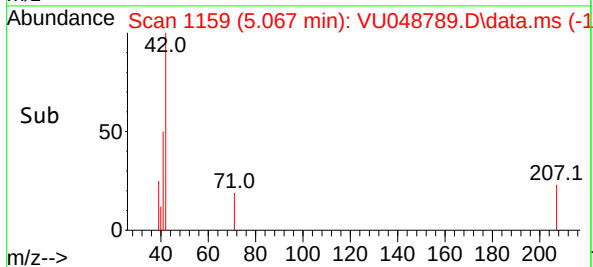
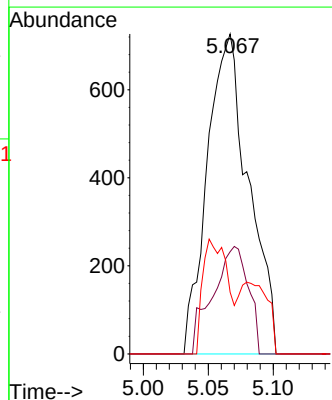
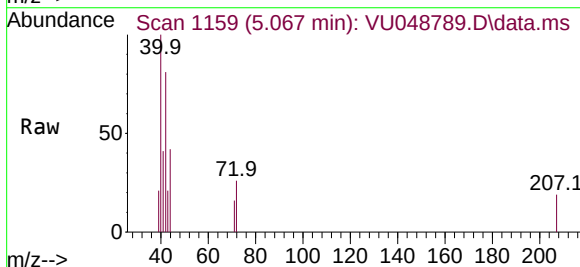
Tgt Ion: 42 Resp: 1603

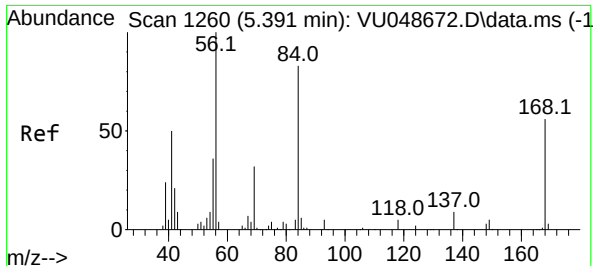
Ion Ratio Lower Upper

42 100

72 29.1 37.6 56.4#

71 15.6 35.0 52.4#





#31

Cyclohexane

Concen: 1.179 ug/l

RT: 5.372 min Scan# 1

Delta R.T. -0.019 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

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VU0603

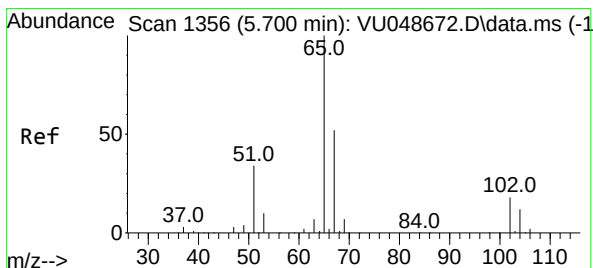
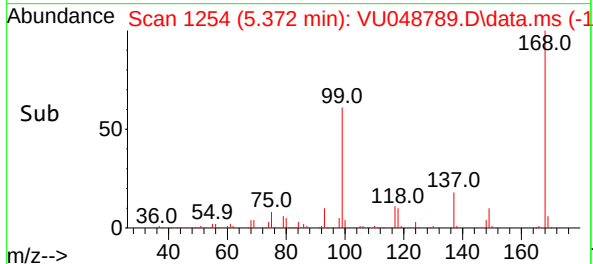
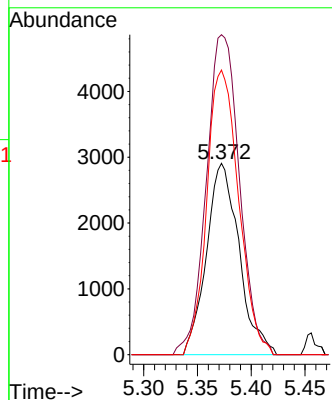
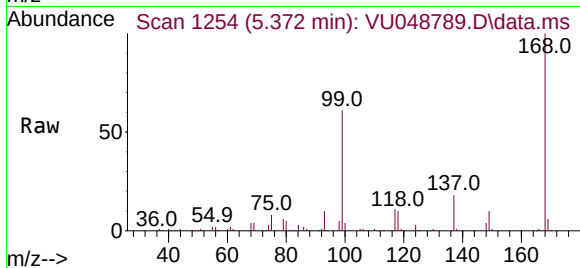
Tgt Ion: 56 Resp: 6127

Ion Ratio Lower Upper

56 100

69 167.3 25.6 38.4#

84 148.8 66.2 99.4#



#33

1,2-Dichloroethane-d4

Concen: 51.706 ug/l

RT: 5.703 min Scan# 1357

Delta R.T. 0.003 min

Lab File: VU048789.D

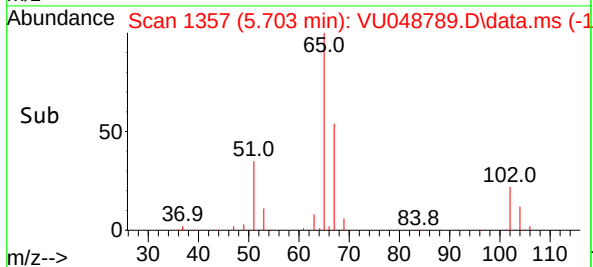
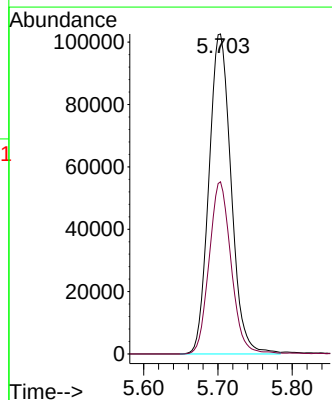
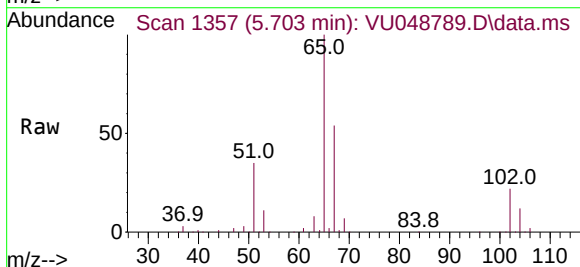
Acq: 01 Jun 2022 18:53

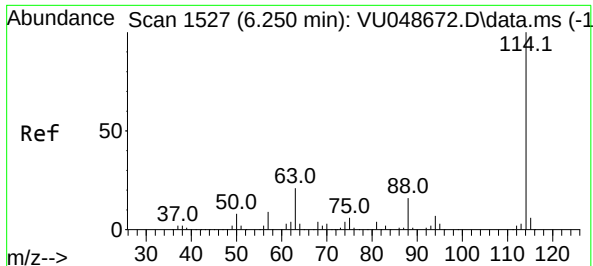
Tgt Ion: 65 Resp: 213207

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

Instrument :

MSVOA_U

ClientSampleId :

VU0603

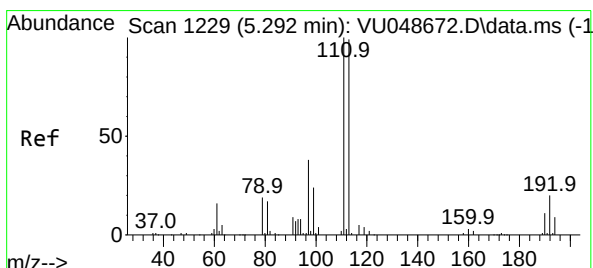
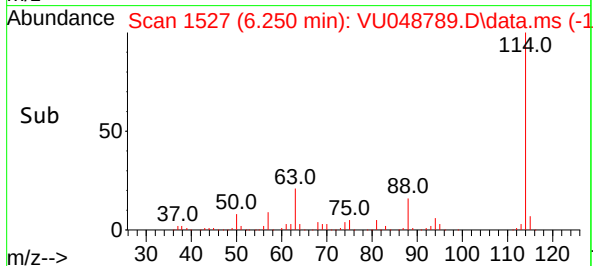
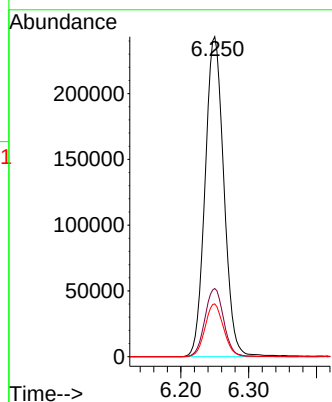
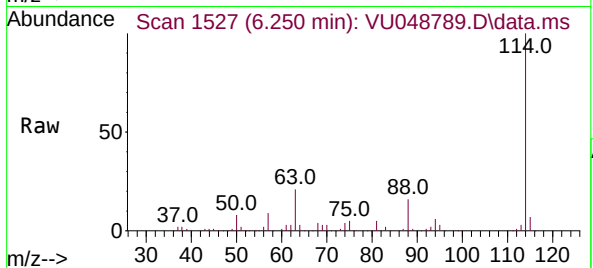
Tgt Ion:114 Resp: 467365

Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 16.5 0.0 32.2



#35

Dibromofluoromethane

Concen: 0.079 ug/l

RT: 5.289 min Scan# 1228

Delta R.T. -0.003 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

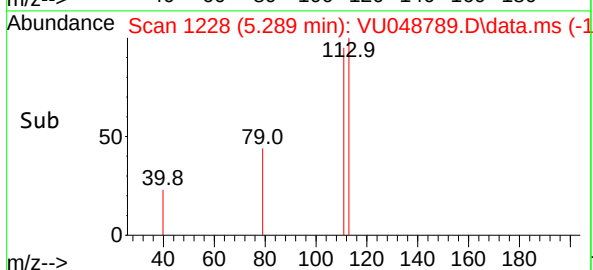
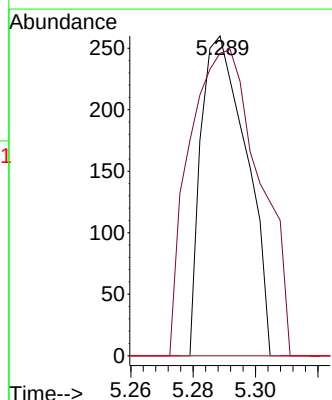
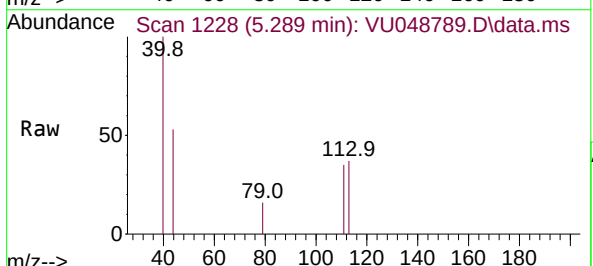
Tgt Ion:113 Resp: 262

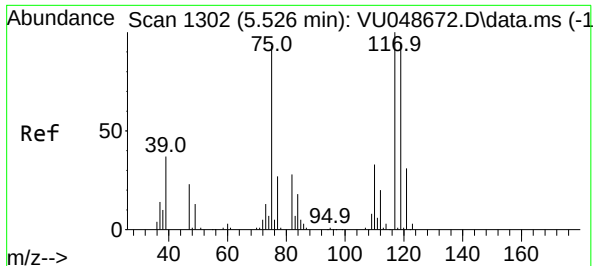
Ion Ratio Lower Upper

113 100

111 148.1 80.7 121.1#

192 0.0 15.9 23.9#

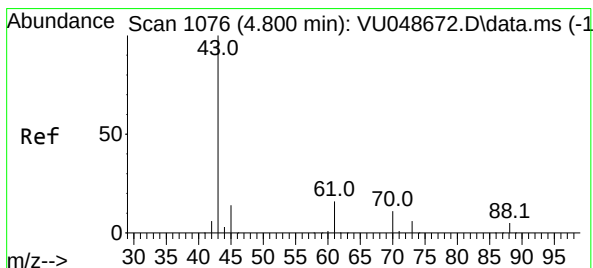
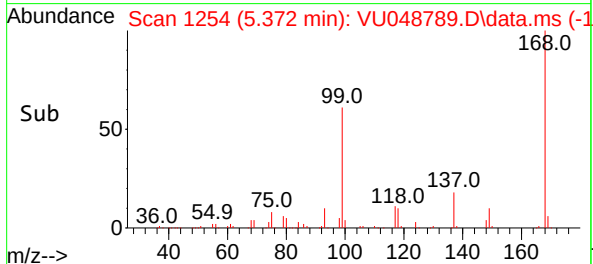
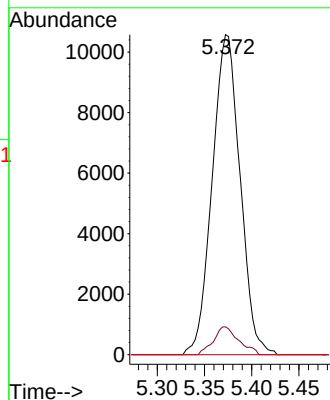
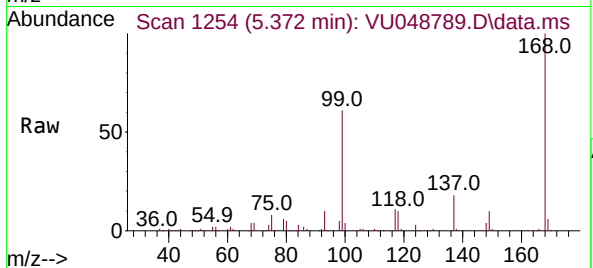




#36
1,1-Dichloropropene
Concen: 4.453 ug/l
RT: 5.372 min Scan# 11
Delta R.T. -0.154 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

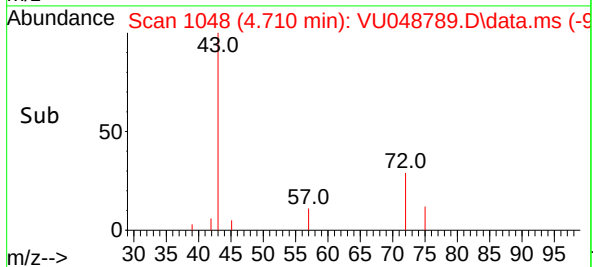
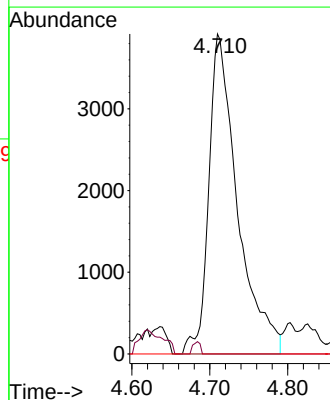
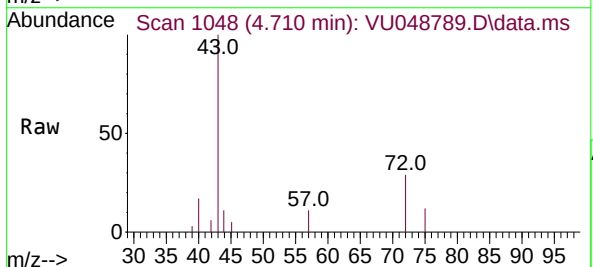
Instrument :
MSVOA_U
ClientSampleId :
VU0603

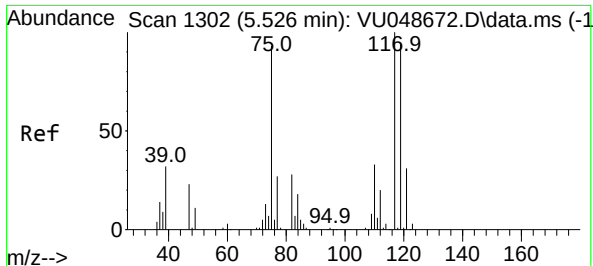
Tgt Ion: 75 Resp: 21669
Ion Ratio Lower Upper
75 100
110 7.9 17.4 52.3#
77 0.0 24.8 37.2#



#37
Ethyl Acetate
Concen: 1.629 ug/l
RT: 4.710 min Scan# 1048
Delta R.T. -0.090 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

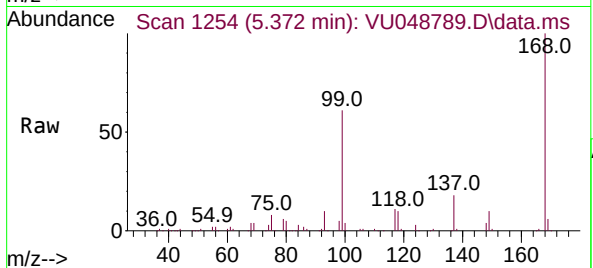
Tgt Ion: 43 Resp: 10019
Ion Ratio Lower Upper
43 100
61 0.0 11.7 17.5#
70 0.0 8.4 12.6#



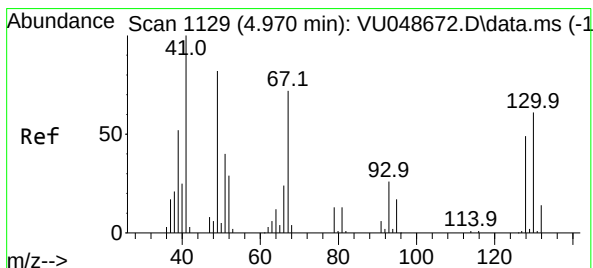
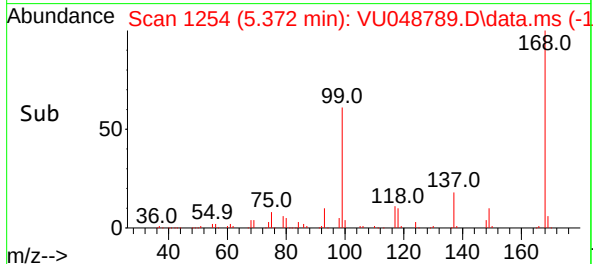
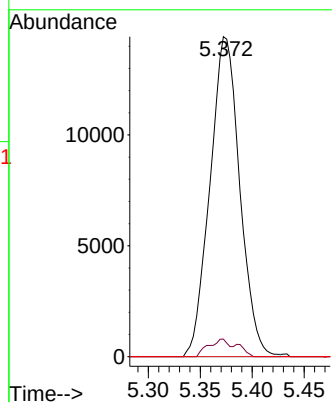


#38
Carbon Tetrachloride
Concen: 5.155 ug/l
RT: 5.372 min Scan# 1157
Delta R.T. -0.154 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Instrument :
MSVOA_U
ClientSampleId :
VU0603

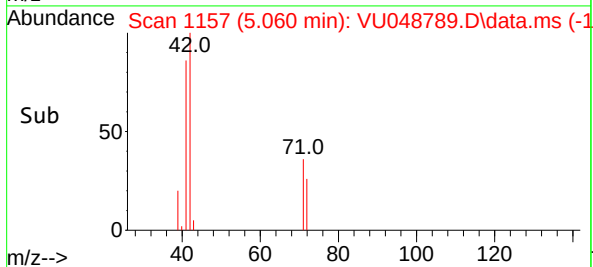
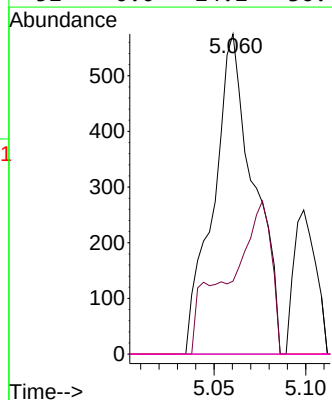
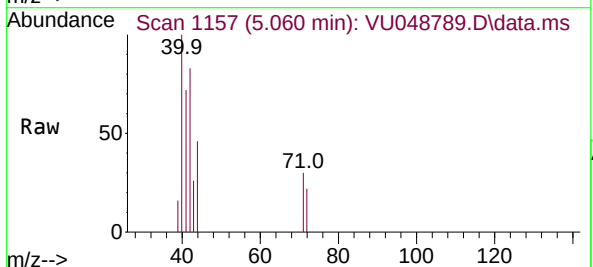


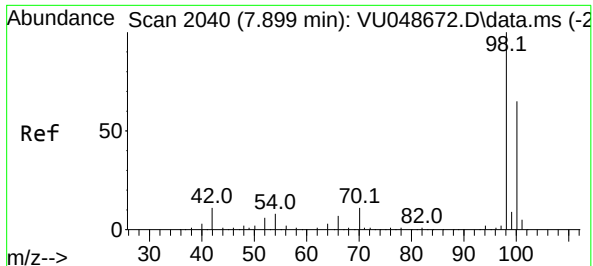
Tgt Ion:117 Resp: 28780
Ion Ratio Lower Upper
117 100
119 5.5 75.4 113.2#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 0.285 ug/l
RT: 5.060 min Scan# 1157
Delta R.T. 0.090 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 41 Resp: 885
Ion Ratio Lower Upper
41 100
39 50.7 42.6 64.0
67 0.0 61.0 91.4#
52 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 49.895 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. 0.000 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

Instrument :

MSVOA_U

ClientSampleId :

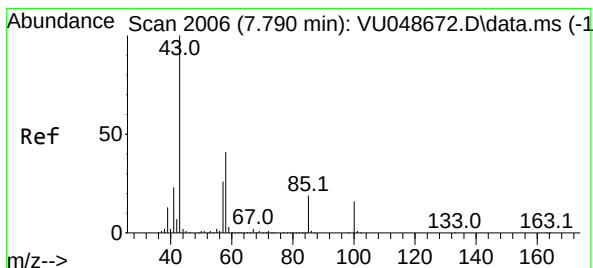
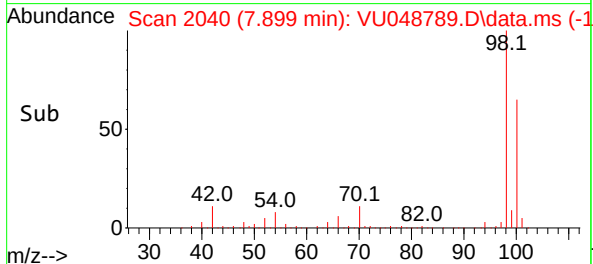
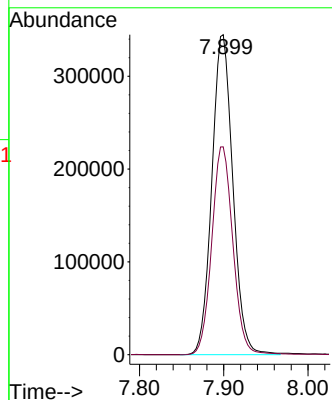
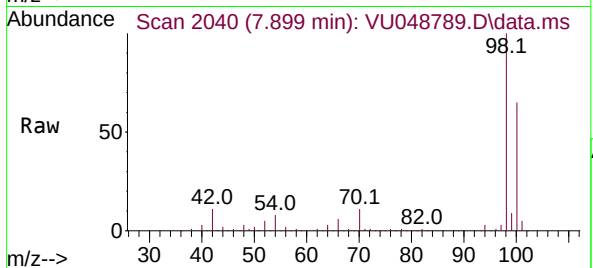
VU0603

Tgt Ion: 98 Resp: 596350

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 0.689 ug/l

RT: 7.797 min Scan# 2008

Delta R.T. 0.007 min

Lab File: VU048789.D

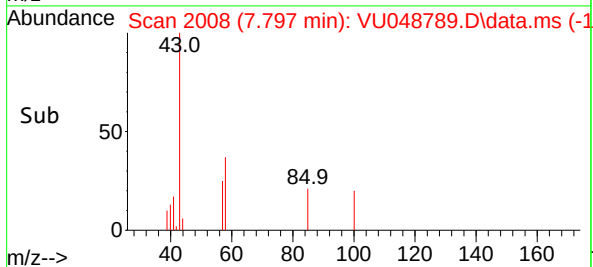
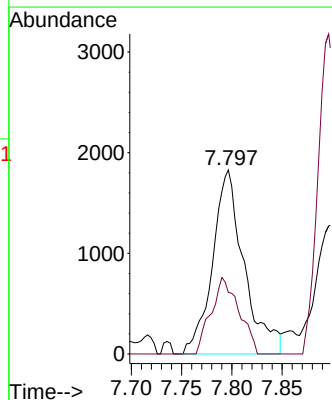
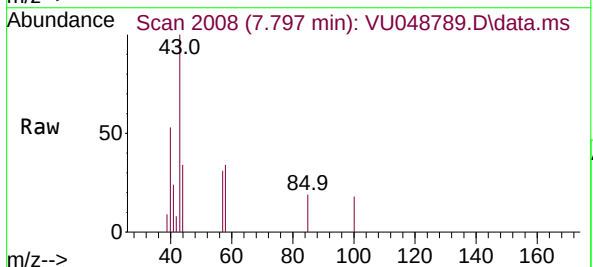
Acq: 01 Jun 2022 18:53

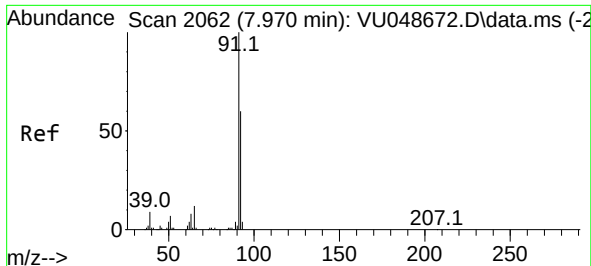
Tgt Ion: 43 Resp: 3994

Ion Ratio Lower Upper

43 100

58 36.7 32.7 49.1

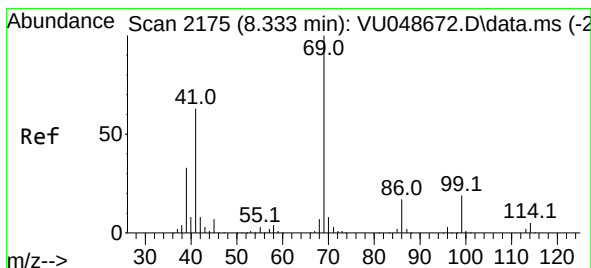
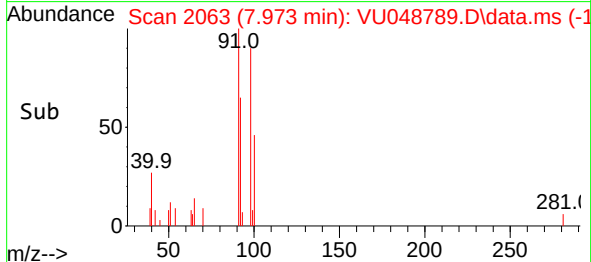
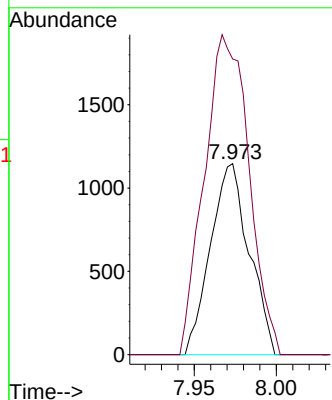
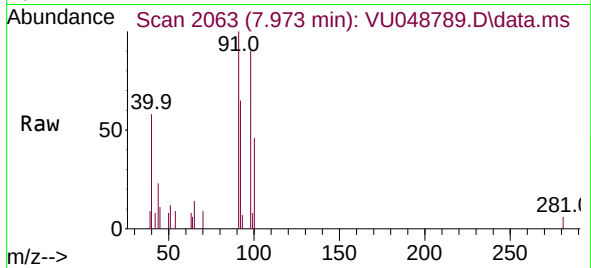




#52
Toluene
Concen: 0.219 ug/l
RT: 7.973 min Scan# 2062
Delta R.T. 0.003 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

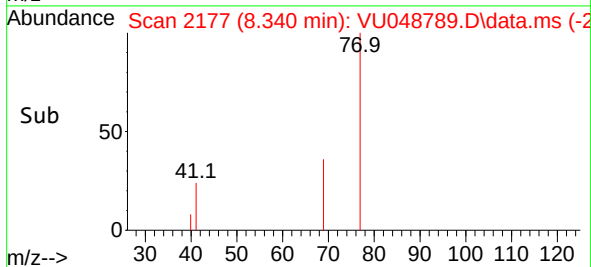
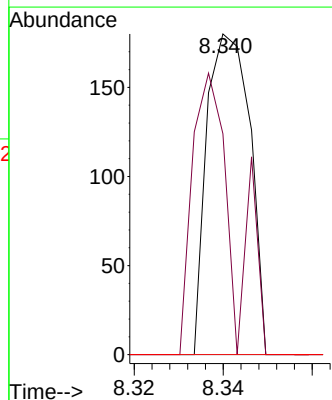
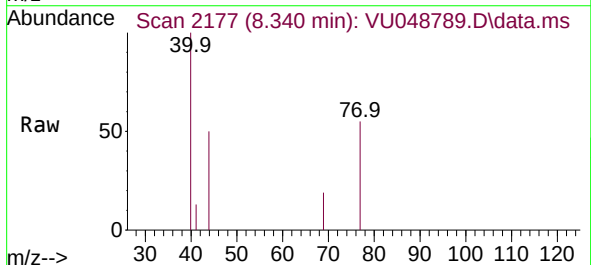
Instrument :
MSVOA_U
ClientSampleId :
VU0603

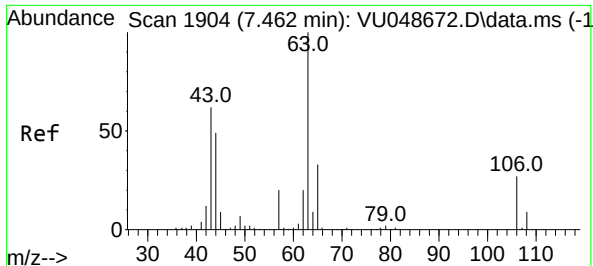
Tgt Ion: 92 Resp: 1878
Ion Ratio Lower Upper
92 100
91 192.9 135.0 202.4



#56
Ethyl methacrylate
Concen: 2.632 ug/l
RT: 8.340 min Scan# 2177
Delta R.T. 0.007 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 69 Resp: 121
Ion Ratio Lower Upper
69 100
41 82.6 50.6 76.0#
39 0.0 26.6 40.0#

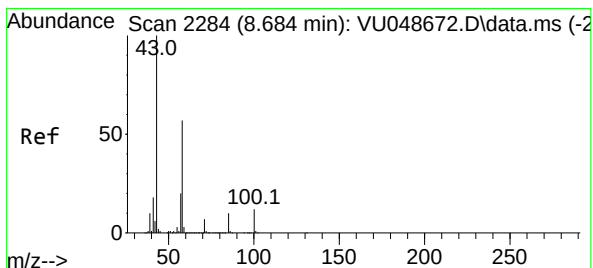
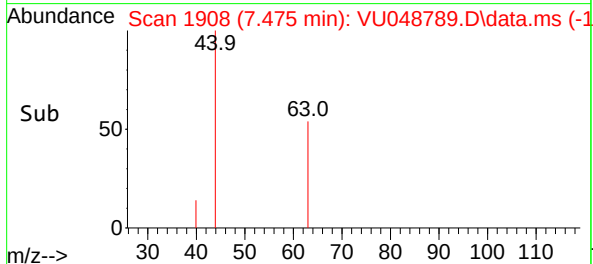
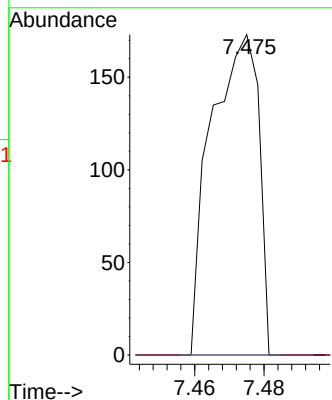
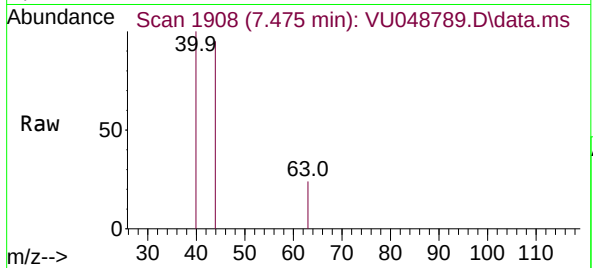




#58
2-Chloroethyl Vinyl ether
Concen: 29.865 ug/l
RT: 7.475 min Scan# 1908
Delta R.T. 0.013 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

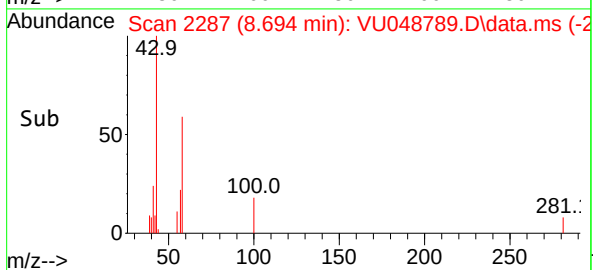
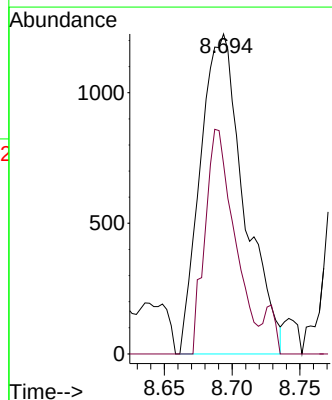
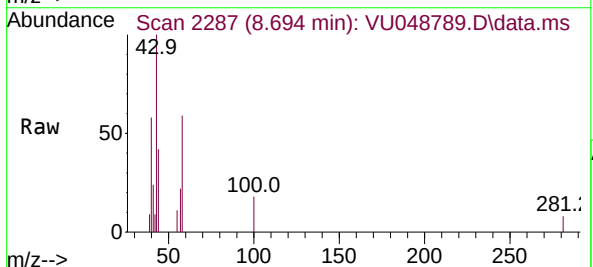
Instrument :
MSVOA_U
ClientSampleId :
VU0603

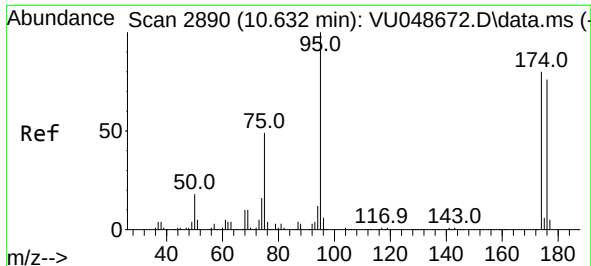
Tgt Ion: 63 Resp: 165
Ion Ratio Lower Upper
63 100
106 0.0 22.2 33.2#



#59
2-Hexanone
Concen: 0.578 ug/l
RT: 8.694 min Scan# 2287
Delta R.T. 0.010 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 43 Resp: 2751
Ion Ratio Lower Upper
43 100
58 47.4 28.2 84.6

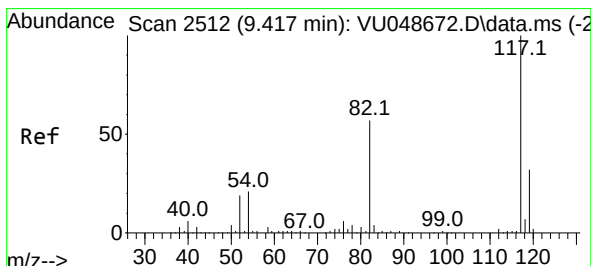
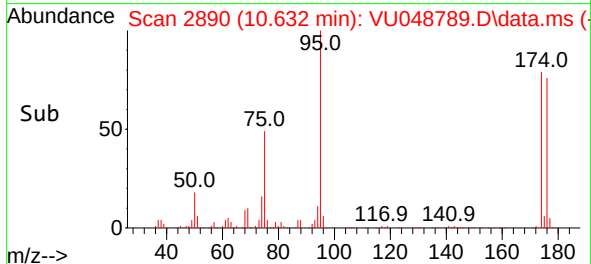
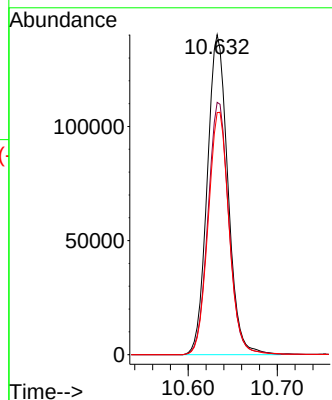
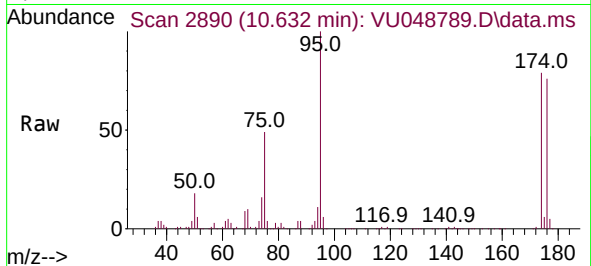




#62
4-Bromofluorobenzene
Concen: 50.014 ug/l
RT: 10.632 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

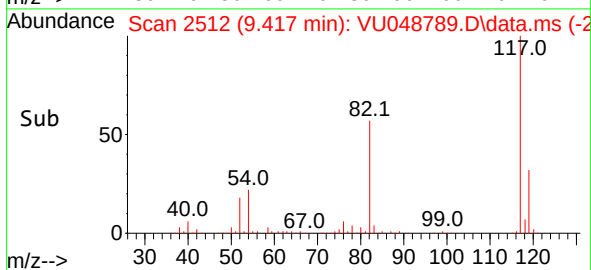
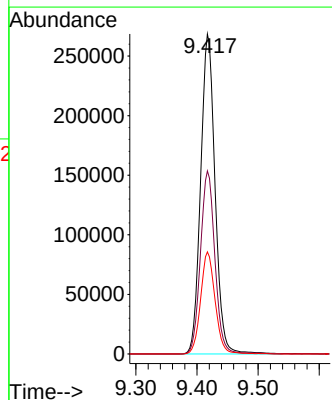
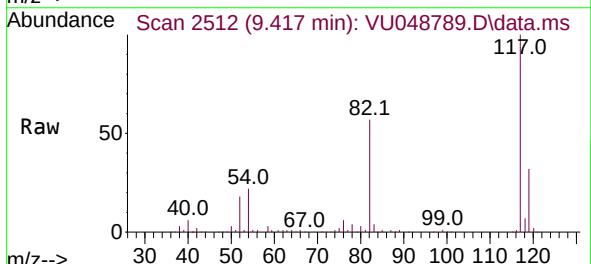
Instrument :
MSVOA_U
ClientSampleId :
VU0603

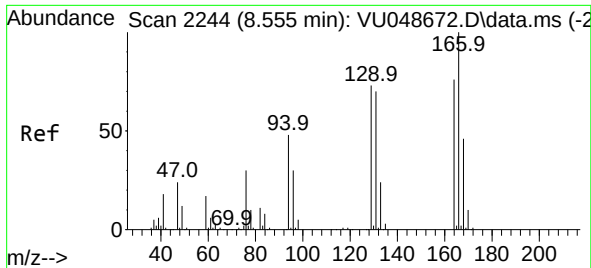
Tgt Ion: 95 Resp: 226074
Ion Ratio Lower Upper
95 100
174 79.7 0.0 159.4
176 76.8 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 117 Resp: 440589
Ion Ratio Lower Upper
117 100
82 57.2 45.3 67.9
119 31.9 25.4 38.2

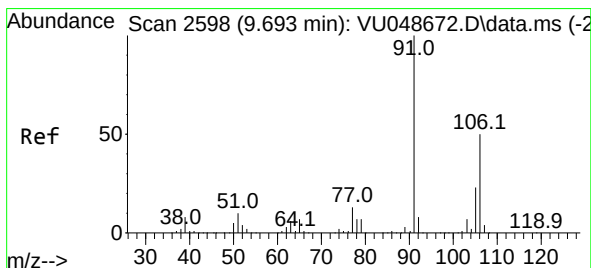
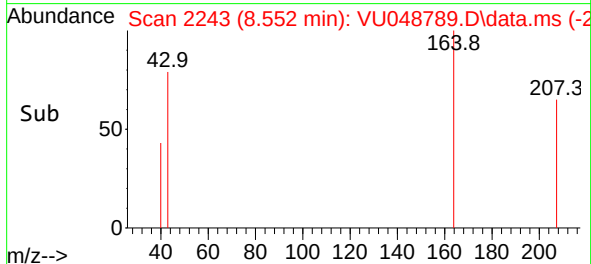
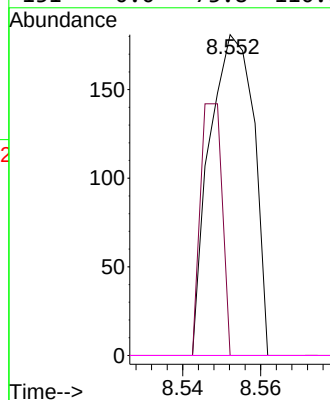
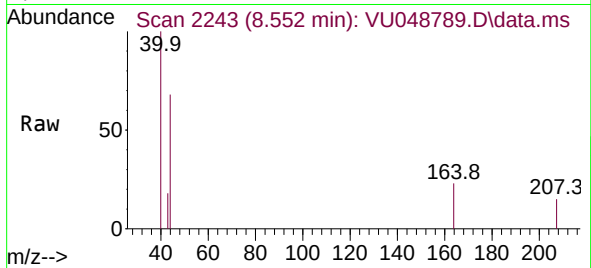




#64
Tetrachloroethene
Concen: Below Cal
RT: 8.552 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

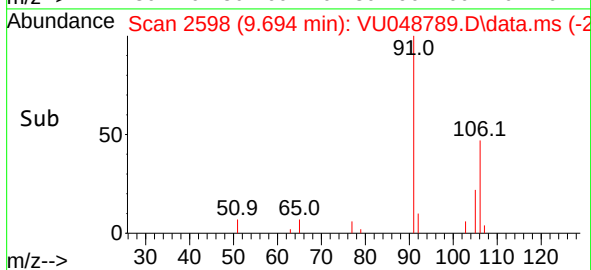
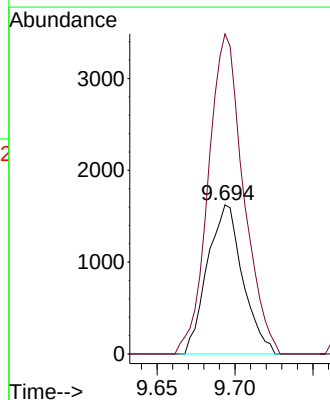
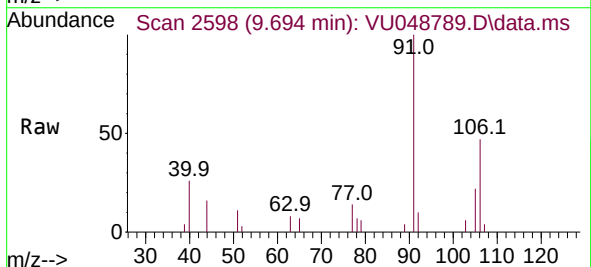
Instrument :
MSVOA_U
ClientSampleId :
VU0603

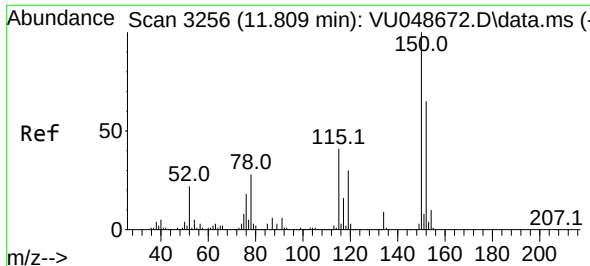
Tgt Ion:164	Resp:	143
Ion	Ratio	Lower Upper
164	100	
166	0.0	105.0 157.4#
129	0.0	76.5 114.7#
131	0.0	73.8 110.6#



#68
m/p-Xylenes
Concen: 0.415 ug/l
RT: 9.694 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion:106	Resp:	2554
Ion	Ratio	Lower Upper
106	100	
91	214.4	162.4 243.6

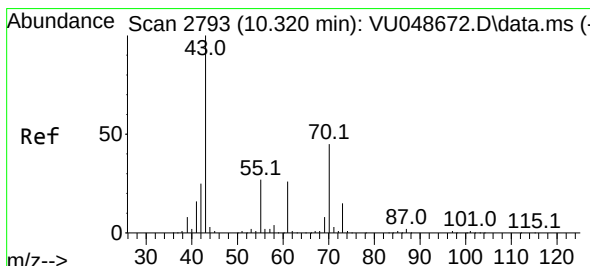
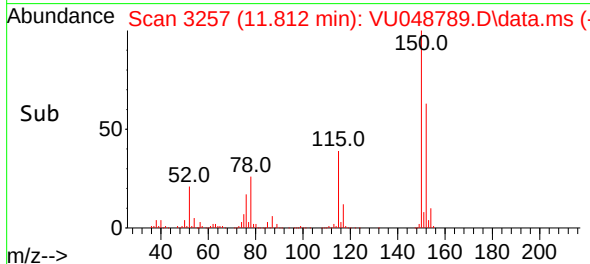
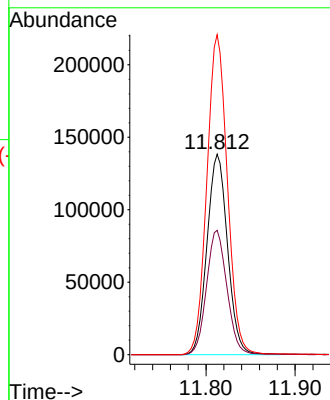
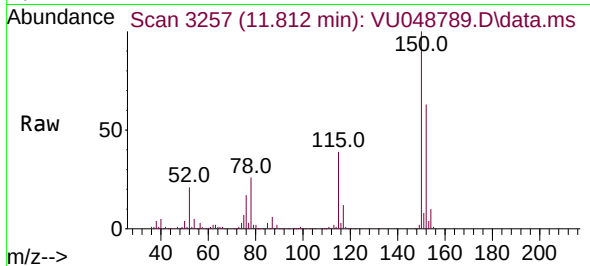




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

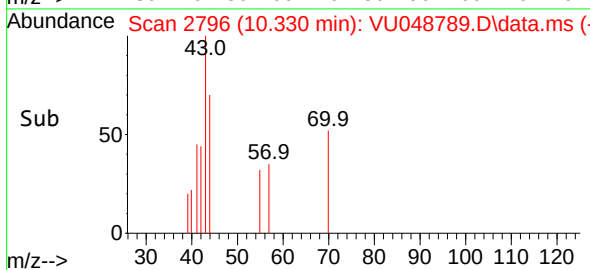
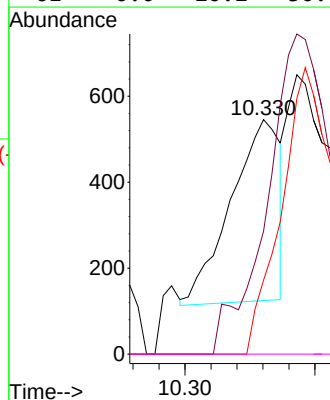
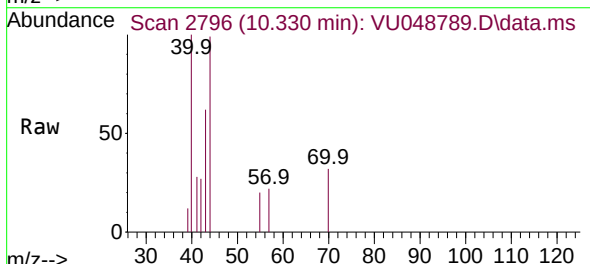
Instrument :
MSVOA_U
ClientSampleId :
VU0603

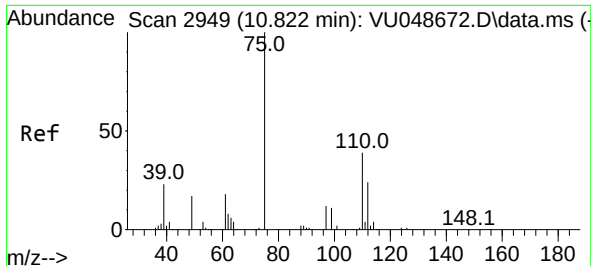
Tgt Ion:152 Resp: 221372
Ion Ratio Lower Upper
152 100
115 61.6 41.8 125.4
150 158.7 0.0 341.0



#74
N-ethyl acetate
Concen: 2.540 ug/l
RT: 10.330 min Scan# 2796
Delta R.T. 0.010 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 43 Resp: 554
Ion Ratio Lower Upper
43 100
70 0.0 35.8 53.6#
55 0.0 21.1 31.7#
61 0.0 20.2 30.4#

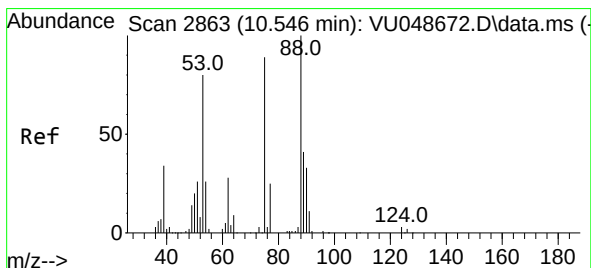
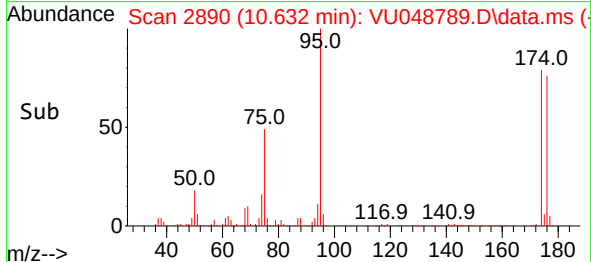
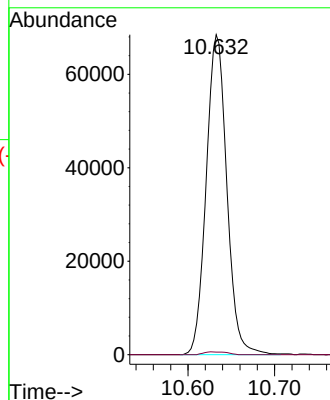
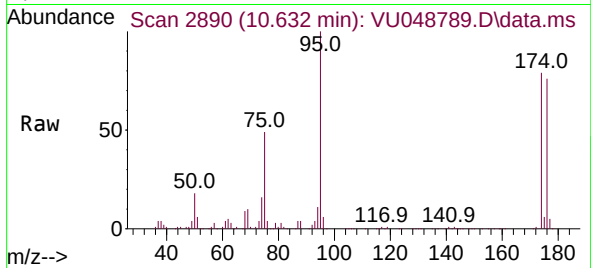




#76
1,2,3-Trichloropropane
Concen: 15.869 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.190 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

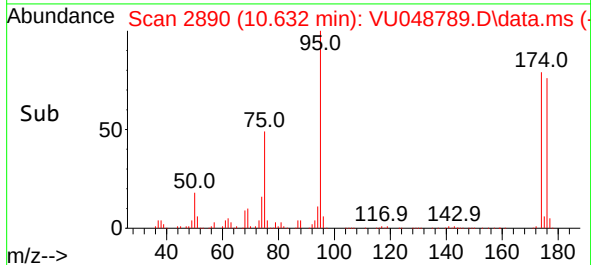
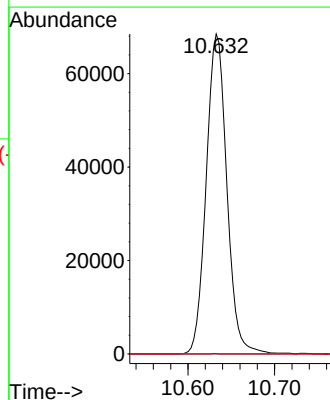
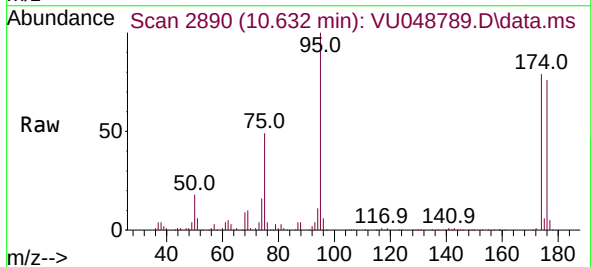
Instrument :
MSVOA_U
ClientSampleId :
VU0603

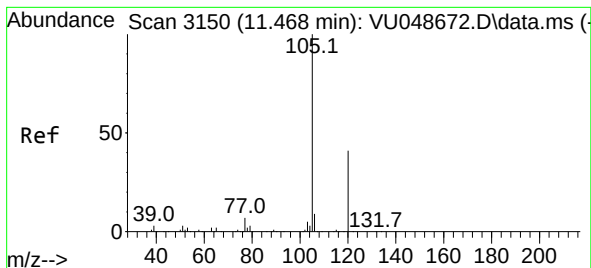
Tgt Ion: 75 Resp: 113267
Ion Ratio Lower Upper
75 100
77 1.0 14.8 44.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.619 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. 0.087 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion: 75 Resp: 113267
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.472 ug/l

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

Instrument :

MSVOA_U

ClientSampleId :

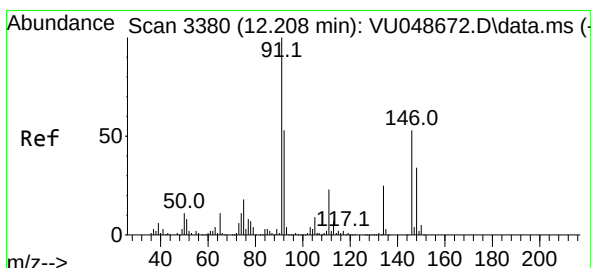
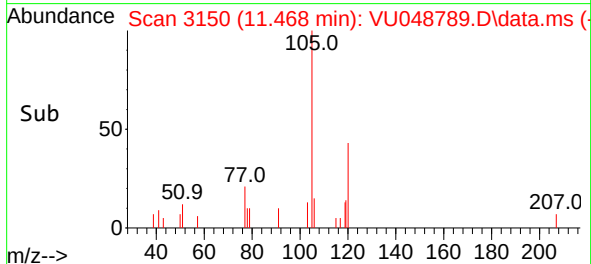
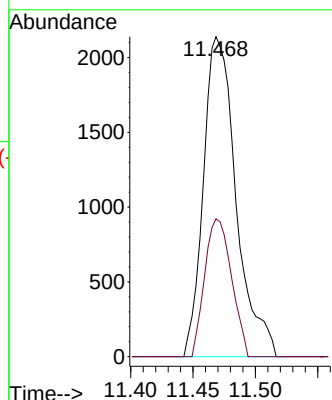
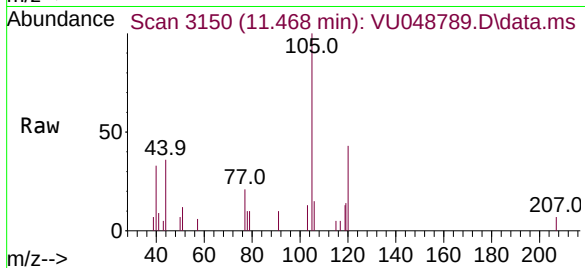
VU0603

Tgt Ion:105 Resp: 3906

Ion Ratio Lower Upper

105 100

120 35.2 22.5 67.5



#89

n-Butylbenzene

Concen: 2.298 ug/l

RT: 12.214 min Scan# 3382

Delta R.T. 0.006 min

Lab File: VU048789.D

Acq: 01 Jun 2022 18:53

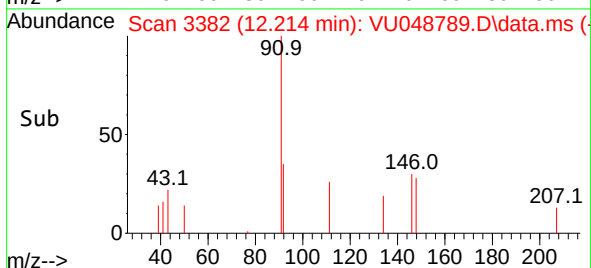
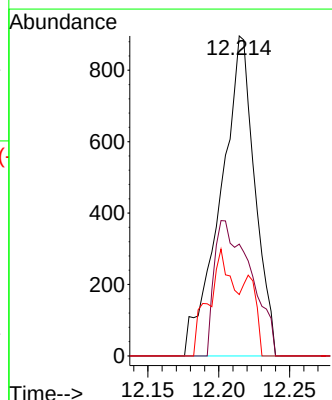
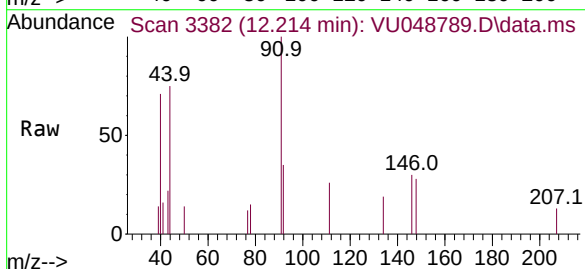
Tgt Ion: 91 Resp: 1507

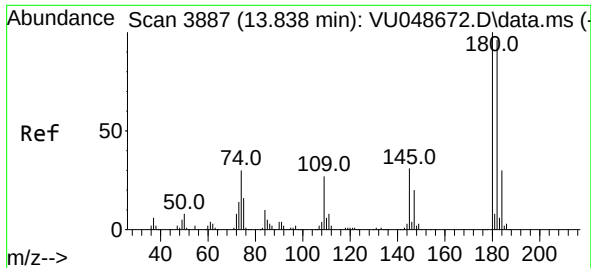
Ion Ratio Lower Upper

91 100

92 0.0 25.9 77.8#

134 9.9 12.5 37.5#

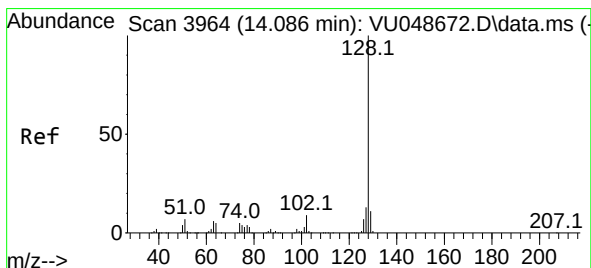
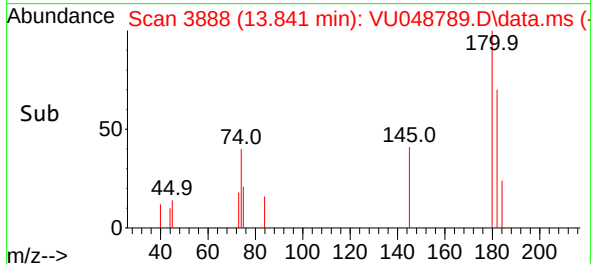
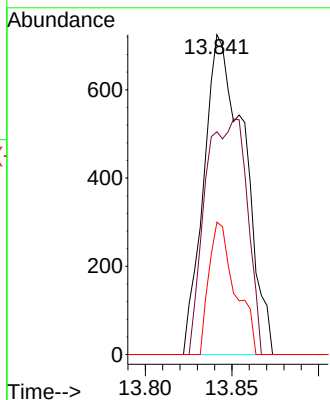
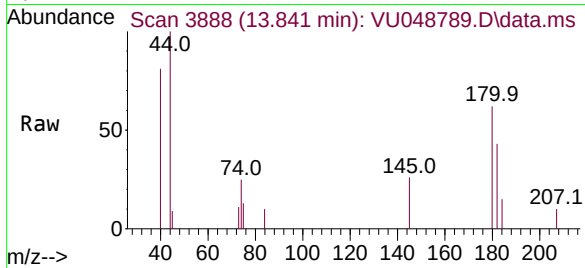




#93
1,2,4-Trichlorobenzene
Concen: 0.236 ug/l
RT: 13.841 min Scan# 3888
Delta R.T. 0.003 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Instrument :
MSVOA_U
ClientSampleId :
VU0603

Tgt Ion	Ratio	Lower	Upper
180	100		
182	76.1	48.3	144.9
145	26.8	15.6	46.7



#95
Naphthalene
Concen: 3.284 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.003 min
Lab File: VU048789.D
Acq: 01 Jun 2022 18:53

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.2	15.4
129	11.9	8.7	13.1

