

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052722\
 Data File : VU048693.D
 Acq On : 27 May 2022 15:04
 Operator : SY/MD
 Sample : N3056-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-15

Quant Time: May 28 00:19:26 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)

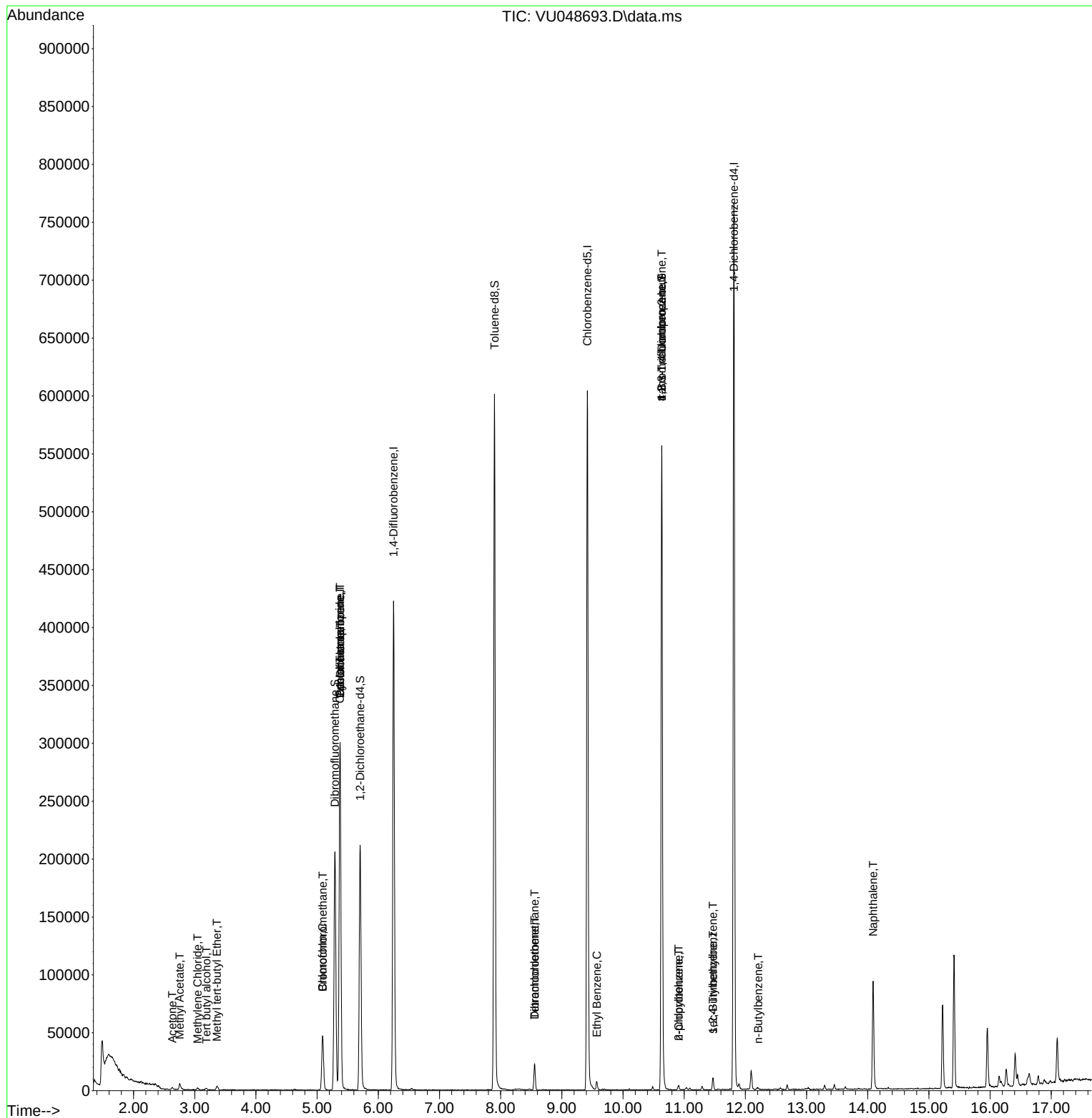
Internal Standards						
1) Pentafluorobenzene	5.375	168	204968	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	340677	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	338565	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	204644	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	160194	52.041	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.080%			
35) Dibromofluoromethane	5.292	113	135180	55.619	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.240%			
50) Toluene-d8	7.899	98	404012	46.372	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.740%			
62) 4-Bromofluorobenzene	10.632	95	189772	57.595	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 115.200%			
Target Compounds						
					Qvalue	
5) Bromomethane	1.861	94	21	Below Cal	#	71
6) Chloroethane	1.954	64	743	Below Cal	#	50
11) Tert butyl alcohol	3.192	59	725	0.929	ug/l #	28
16) Acetone	2.636	43	1864	1.188	ug/l	95
18) Methyl Acetate	2.755	43	1611	0.409	ug/l #	51
19) Methyl tert-butyl Ether	3.363	73	3336	0.421	ug/l	96
20) Methylene Chloride	3.044	84	802	0.301	ug/l	93
28) Bromochloromethane	5.092	49	2949	1.606	ug/l #	13
30) Chloroform	5.089	83	42594	9.094	ug/l	93
31) Cyclohexane	5.375	56	3810	0.982	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	16328	4.603	ug/l #	50
38) Carbon Tetrachloride	5.372	117	20980	5.155	ug/l #	17
60) Dibromochloromethane	8.555	129	4980	1.607	ug/l #	11
64) Tetrachloroethene	8.555	164	5098	1.084	ug/l	96
67) Ethyl Benzene	9.571	91	5564	0.461	ug/l #	87
76) 1,2,3-Trichloropropane	10.632	75	94841	14.374	ug/l #	47
78) n-propylbenzene	10.909	91	3211	0.204	ug/l	99
79) 2-Chlorotoluene	10.909	91	3211	0.328	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.632	75	94841	52.189	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.472	105	6365	1.689	ug/l	100
85) sec-Butylbenzene	11.472	105	6365	0.461	ug/l #	58
89) n-Butylbenzene	12.211	91	599	2.234	ug/l #	61
95) Naphthalene	14.089	128	79034	7.191	ug/l	99

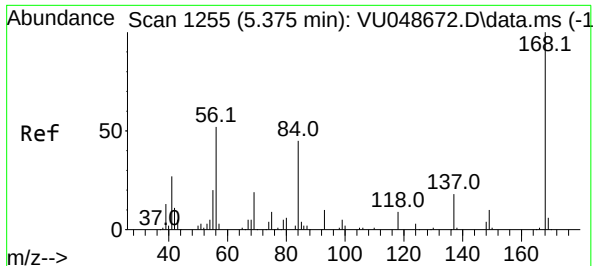
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

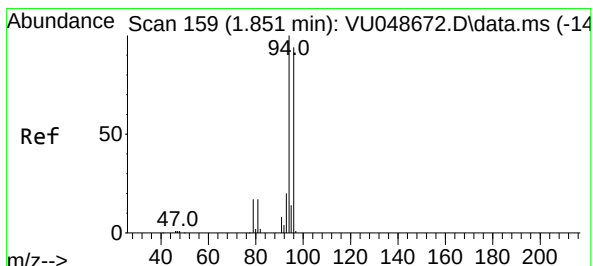
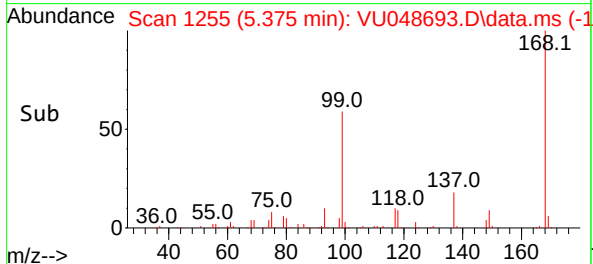
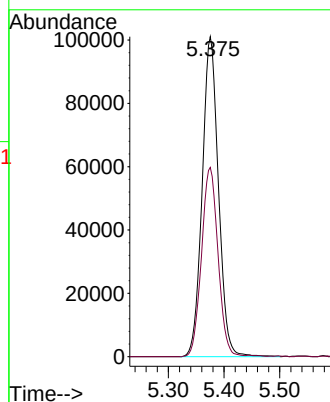
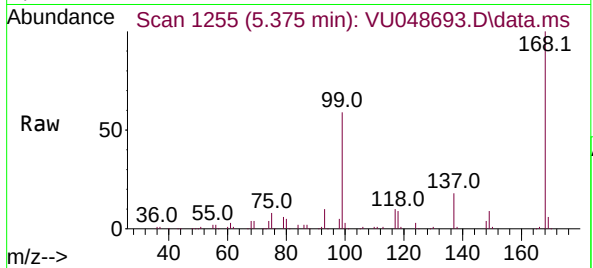




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

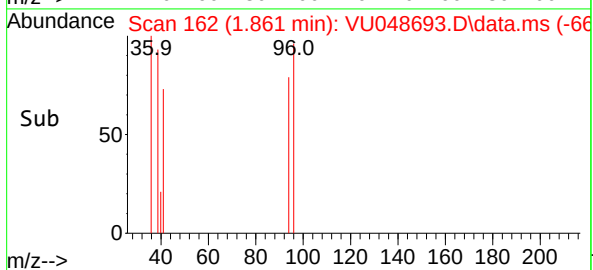
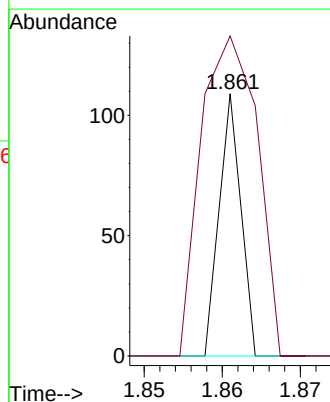
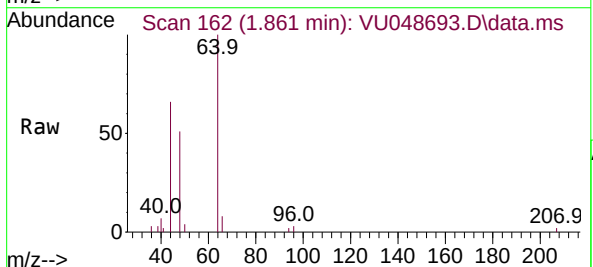
Instrument :
MSVOA_U
ClientSampleId :
MW-15

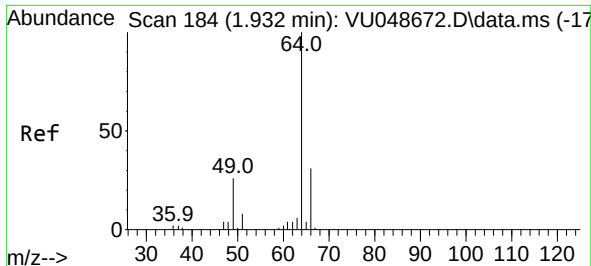
Tgt Ion:168 Resp: 204968
Ion Ratio Lower Upper
168 100
99 59.1 49.3 73.9



#5
Bromomethane
Concen: Below Cal
RT: 1.861 min Scan# 162
Delta R.T. 0.010 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

Tgt Ion: 94 Resp: 21
Ion Ratio Lower Upper
94 100
96 122.0 75.1 112.7#

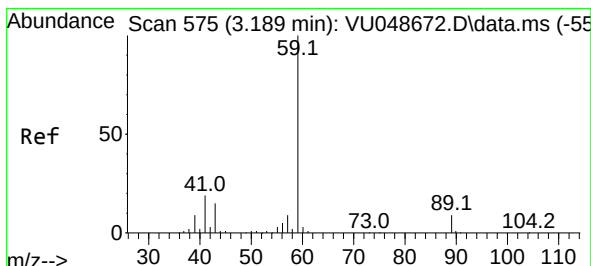
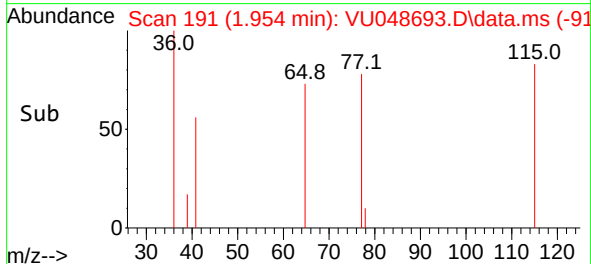
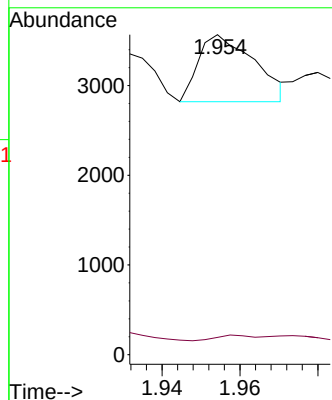
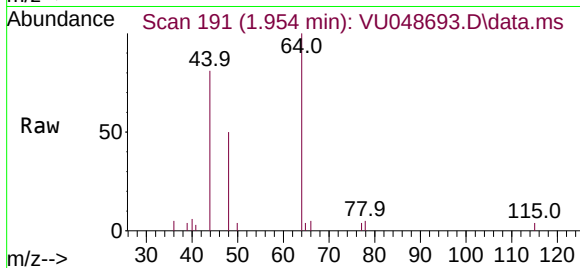




#6
Chloroethane
Concen: Below Cal
RT: 1.954 min Scan# 191
Delta R.T. 0.022 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

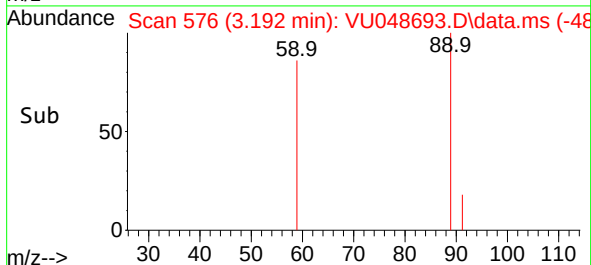
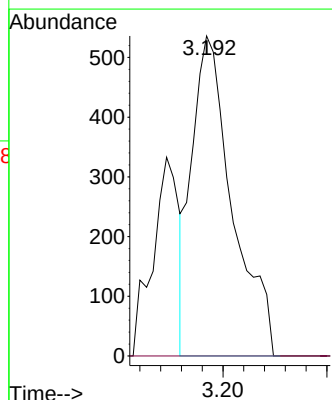
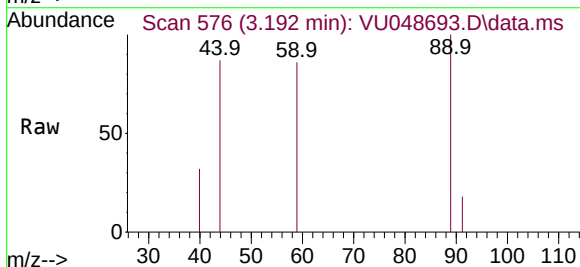
Instrument :
MSVOA_U
ClientSampleId :
MW-15

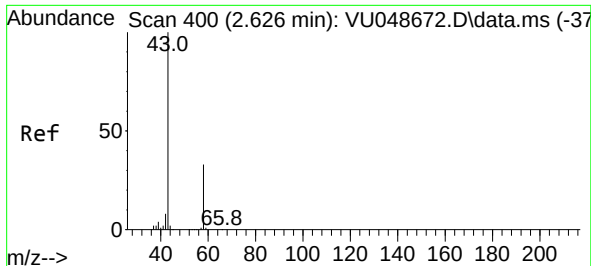
Tgt Ion: 64 Resp: 743
Ion Ratio Lower Upper
64 100
66 4.0 25.2 37.8#



#11
Tert butyl alcohol
Concen: 0.929 ug/l
RT: 3.192 min Scan# 576
Delta R.T. 0.003 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

Tgt Ion: 59 Resp: 725
Ion Ratio Lower Upper
59 100
57 0.0 39.7 59.5#





#16

Acetone

Concen: 1.188 ug/l

RT: 2.636 min Scan# 400

Delta R.T. 0.010 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

Instrument :

MSVOA_U

ClientSampleId :

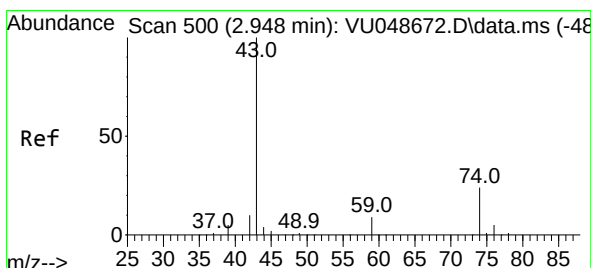
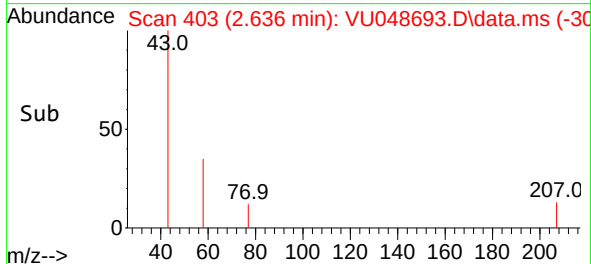
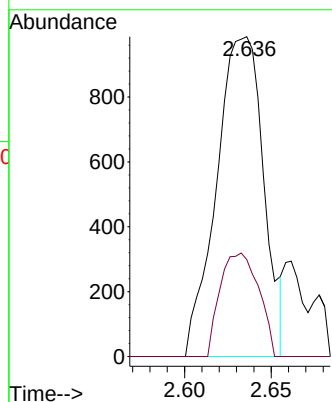
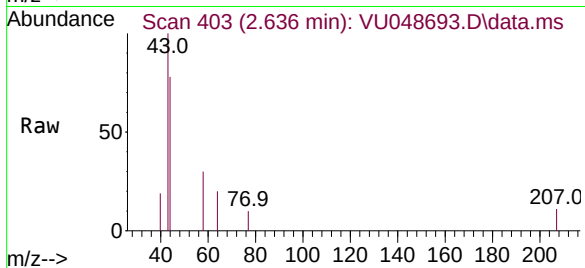
MW-15

Tgt Ion: 43 Resp: 1864

Ion Ratio Lower Upper

43 100

58 30.3 26.3 39.5



#18

Methyl Acetate

Concen: 0.409 ug/l

RT: 2.755 min Scan# 440

Delta R.T. -0.193 min

Lab File: VU048693.D

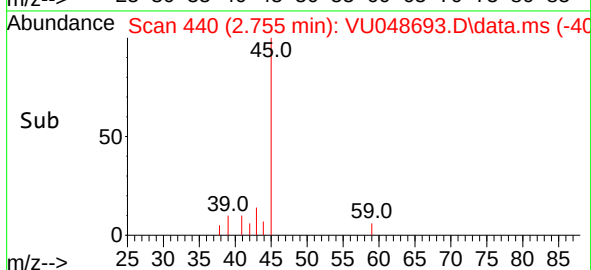
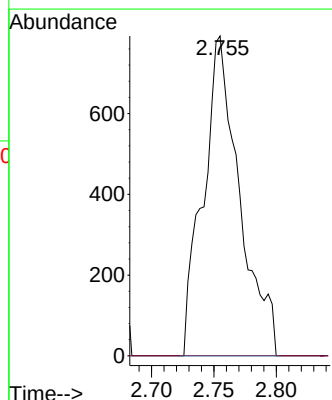
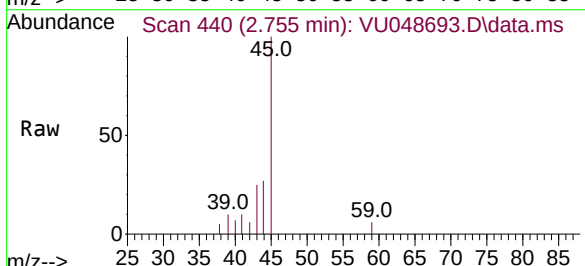
Acq: 27 May 2022 15:04

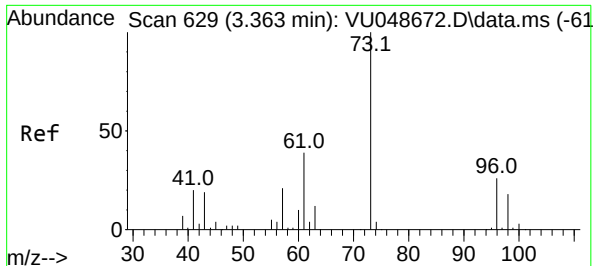
Tgt Ion: 43 Resp: 1611

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#





#19

Methyl tert-butyl Ether

Concen: 0.421 ug/l

RT: 3.363 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

Instrument :

MSVOA_U

ClientSampleId :

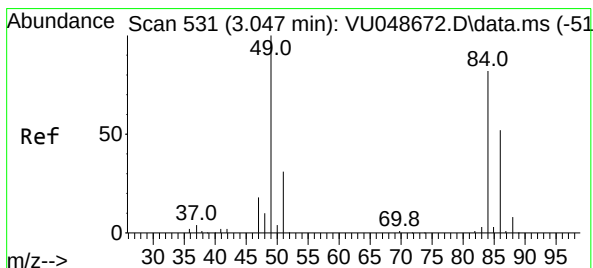
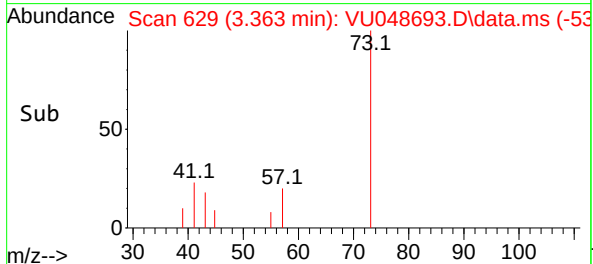
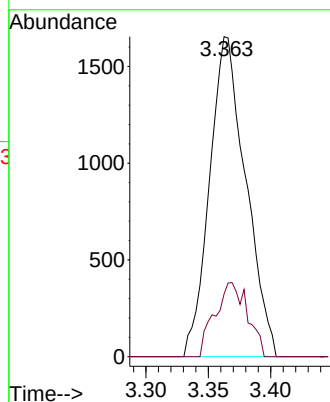
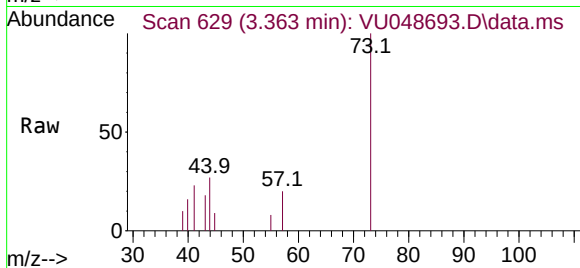
MW-15

Tgt Ion: 73 Resp: 3336

Ion Ratio Lower Upper

73 100

57 19.5 17.1 25.7



#20

Methylene Chloride

Concen: 0.301 ug/l

RT: 3.044 min Scan# 530

Delta R.T. -0.003 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

Tgt Ion: 84 Resp: 802

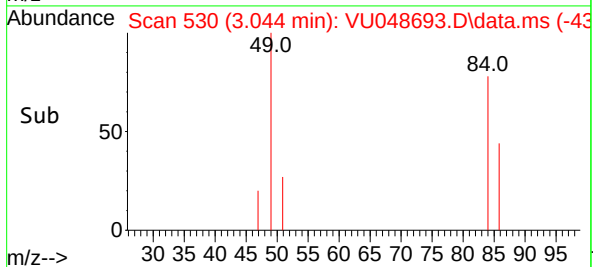
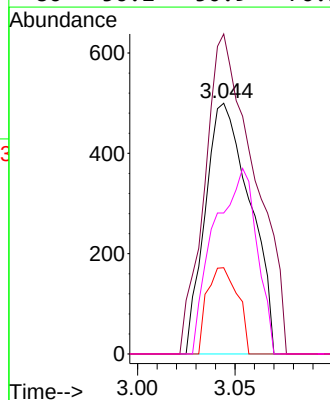
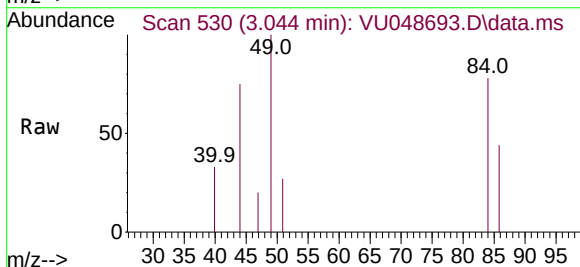
Ion Ratio Lower Upper

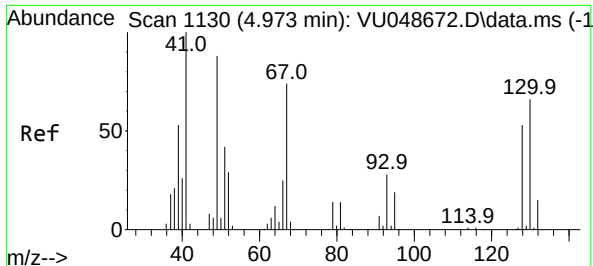
84 100

49 127.6 97.0 145.4

51 34.4 29.8 44.8

86 56.2 50.9 76.3





#28

Bromochloromethane

Concen: 1.606 ug/l

RT: 5.092 min Scan# 1167

Delta R.T. 0.119 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

Instrument :

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ClientSampleId :

MW-15

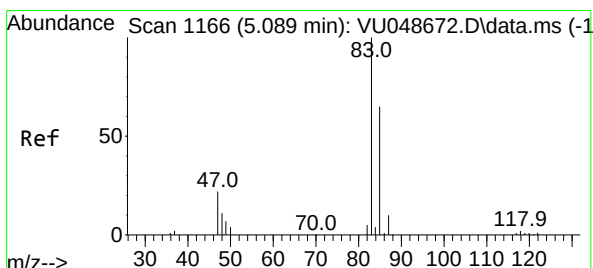
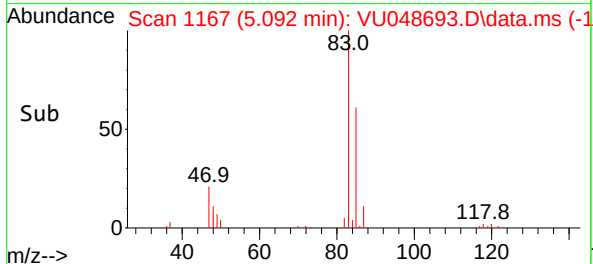
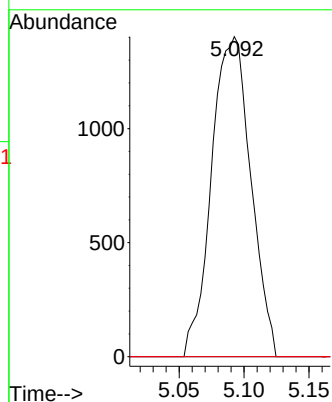
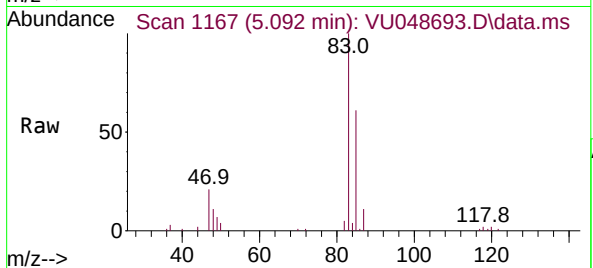
Tgt Ion: 49 Resp: 2949

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 62.1 93.1#



#30

Chloroform

Concen: 9.094 ug/l

RT: 5.089 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VU048693.D

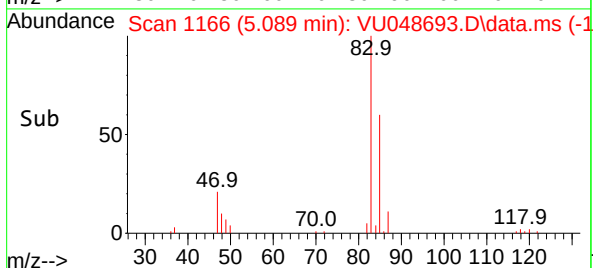
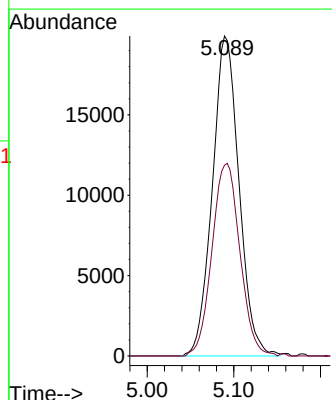
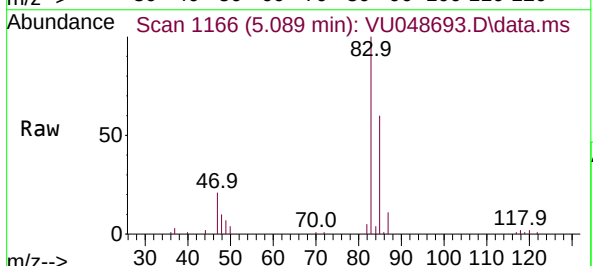
Acq: 27 May 2022 15:04

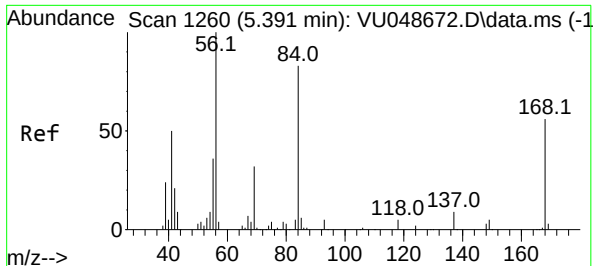
Tgt Ion: 83 Resp: 42594

Ion Ratio Lower Upper

83 100

85 59.6 52.2 78.2





#31

Cyclohexane

Concen: 0.982 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.016 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

Instrument :

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ClientSampleId :

MW-15

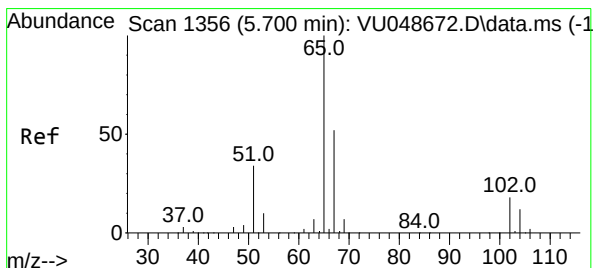
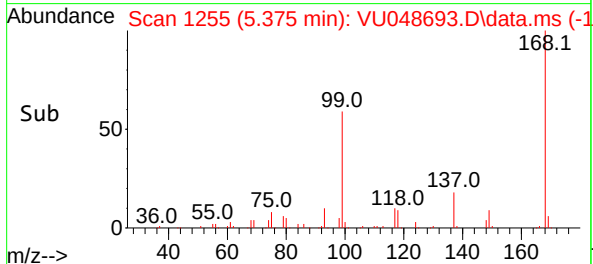
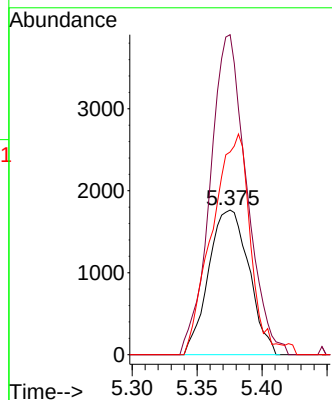
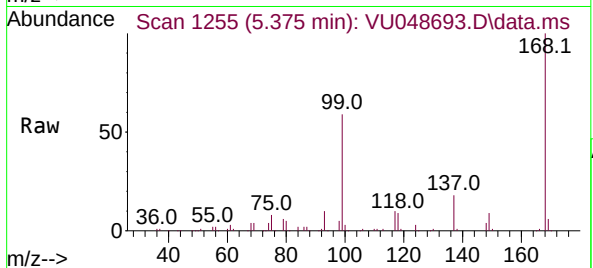
Tgt Ion: 56 Resp: 3810

Ion Ratio Lower Upper

56 100

69 221.2 25.6 38.4#

84 140.1 66.2 99.4#



#33

1,2-Dichloroethane-d4

Concen: 52.041 ug/l

RT: 5.703 min Scan# 1357

Delta R.T. 0.003 min

Lab File: VU048693.D

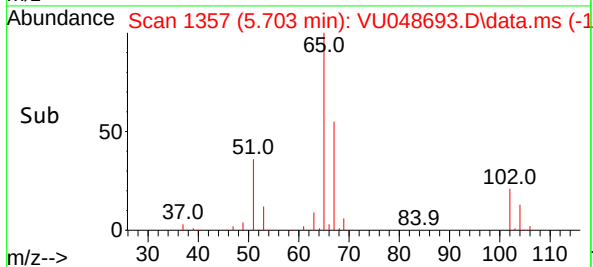
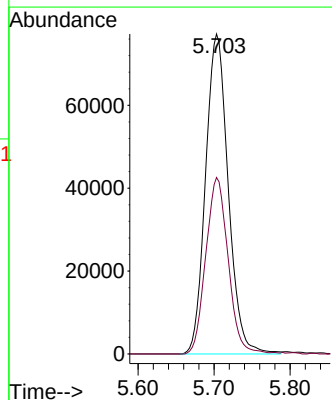
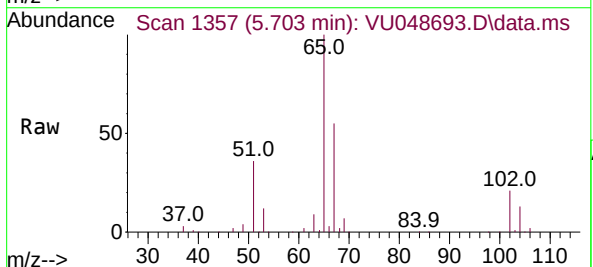
Acq: 27 May 2022 15:04

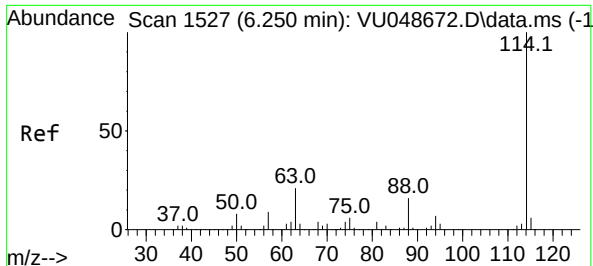
Tgt Ion: 65 Resp: 160194

Ion Ratio Lower Upper

65 100

67 54.2 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

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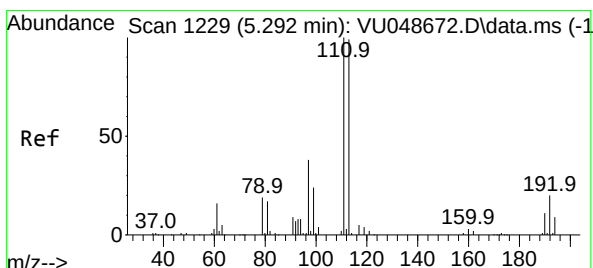
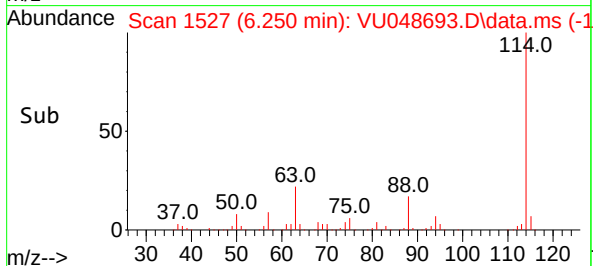
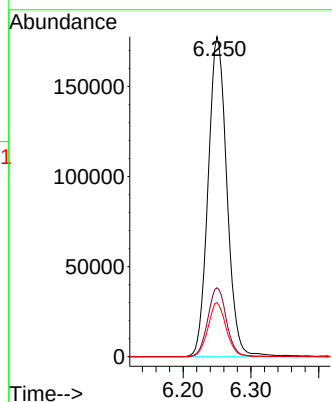
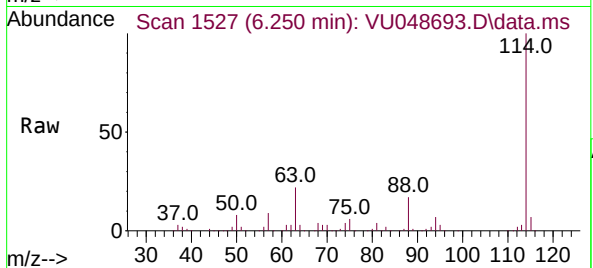
Tgt Ion:114 Resp: 340677

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.6

88 16.9 0.0 32.2



#35

Dibromofluoromethane

Concen: 55.619 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. 0.000 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

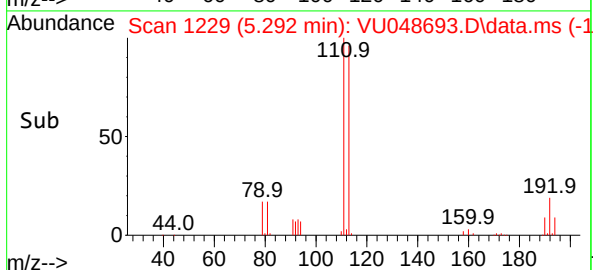
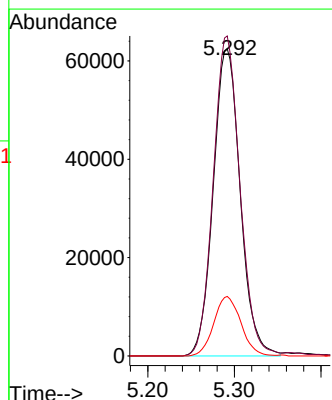
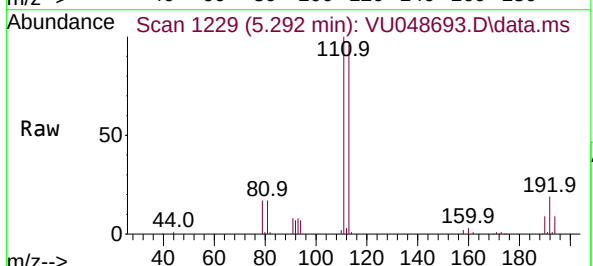
Tgt Ion:113 Resp: 135180

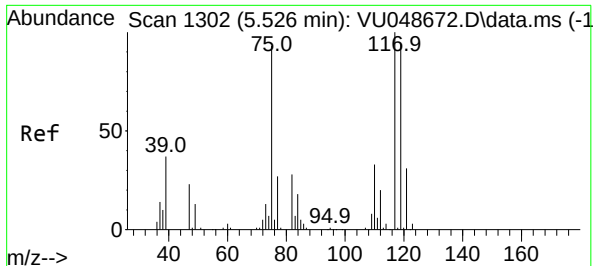
Ion Ratio Lower Upper

113 100

111 102.9 80.7 121.1

192 19.5 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.603 ug/l

RT: 5.375 min Scan# 1

Delta R.T. -0.151 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

Instrument :

MSVOA_U

ClientSampleId :

MW-15

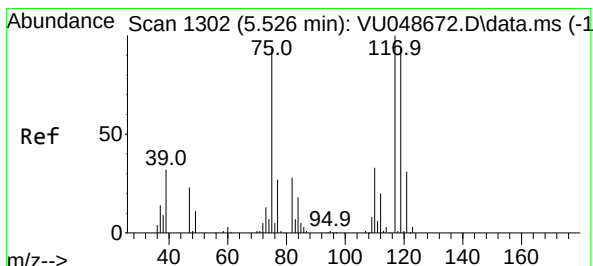
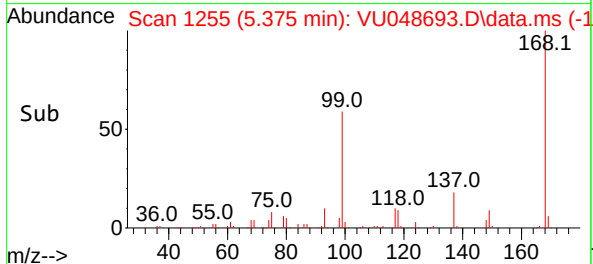
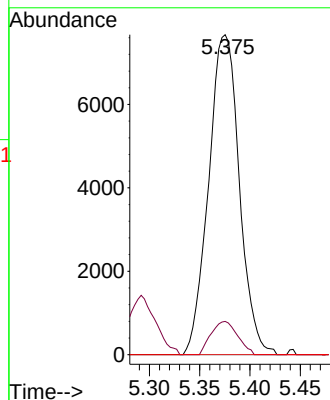
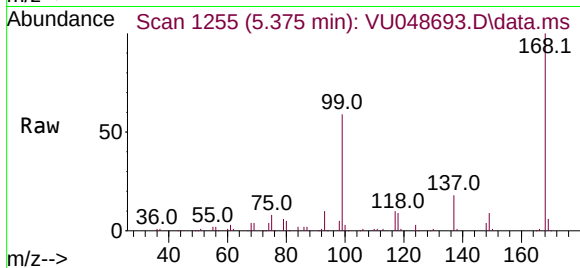
Tgt Ion: 75 Resp: 16328

Ion Ratio Lower Upper

75 100

110 9.0 17.4 52.3#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.155 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.154 min

Lab File: VU048693.D

Acq: 27 May 2022 15:04

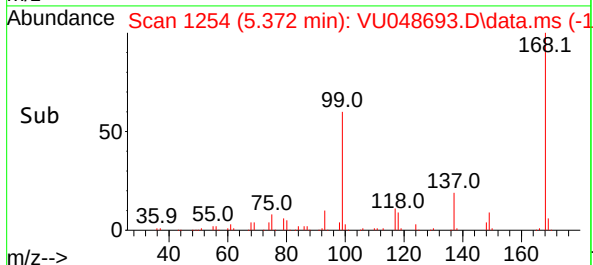
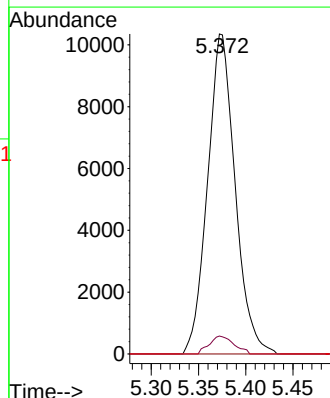
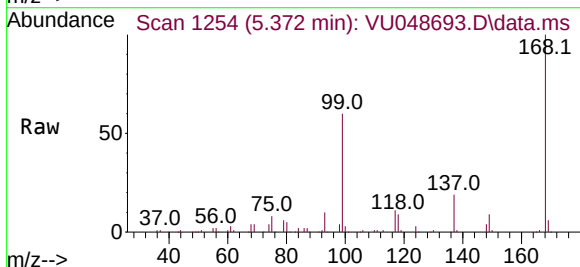
Tgt Ion: 117 Resp: 20980

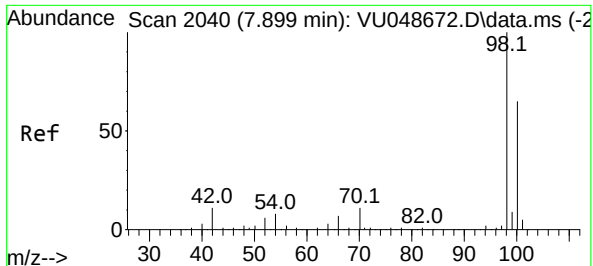
Ion Ratio Lower Upper

117 100

119 5.6 75.4 113.2#

121 0.0 24.6 36.8#

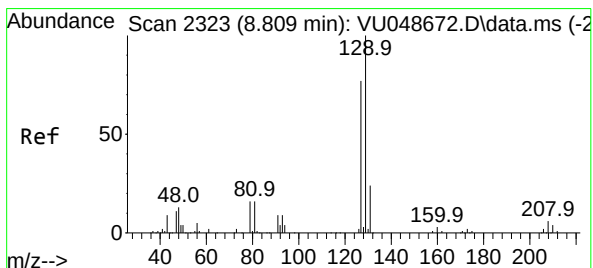
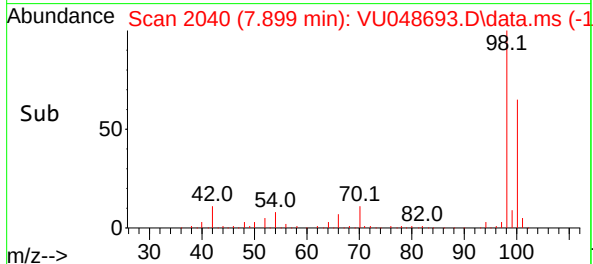
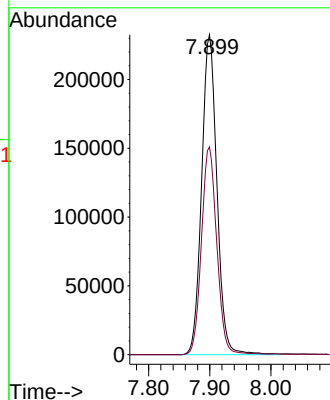
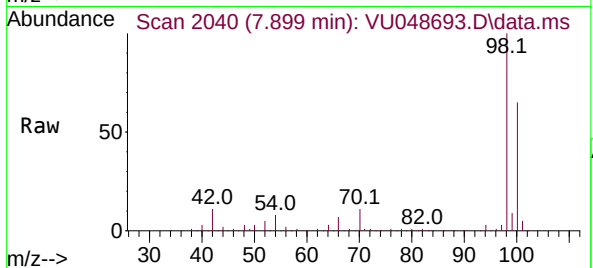




#50
Toluene-d8
Concen: 46.372 ug/l
RT: 7.899 min Scan# 2040
Delta R.T. 0.000 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

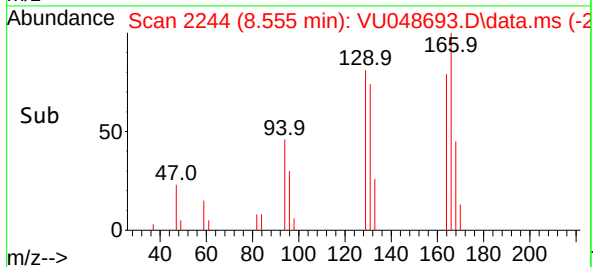
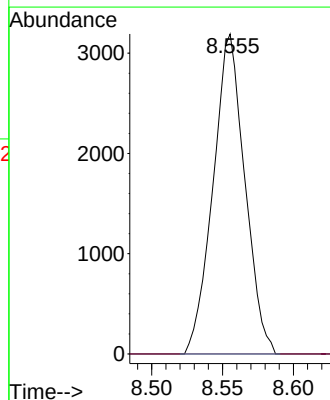
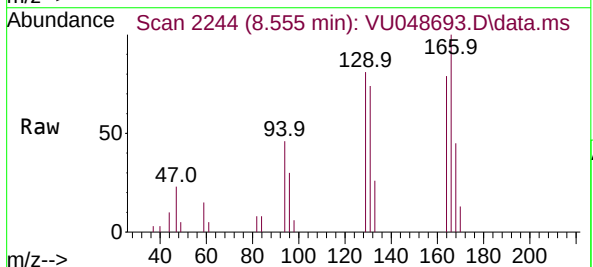
Instrument :
MSVOA_U
ClientSampleId :
MW-15

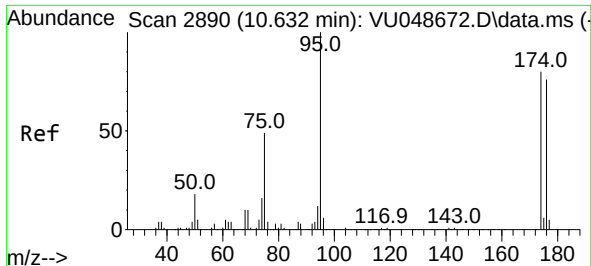
Tgt Ion: 98 Resp: 404012
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.4



#60
Dibromochloromethane
Concen: 1.607 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.254 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

Tgt Ion: 129 Resp: 4980
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

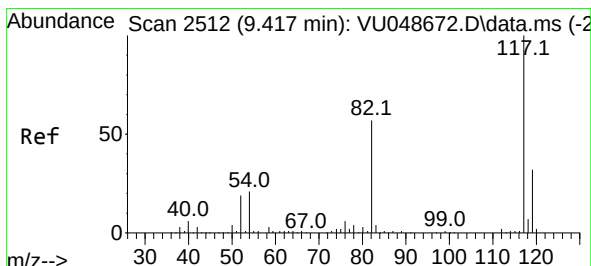
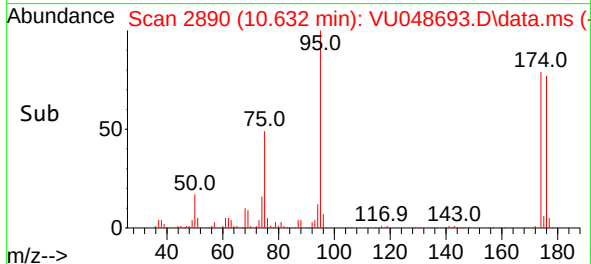
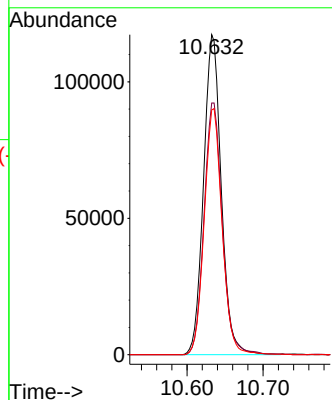
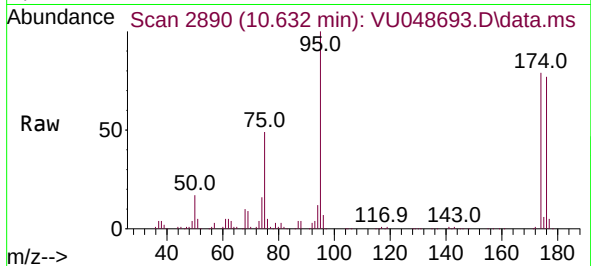




#62
4-Bromofluorobenzene
Concen: 57.595 ug/l
RT: 10.632 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

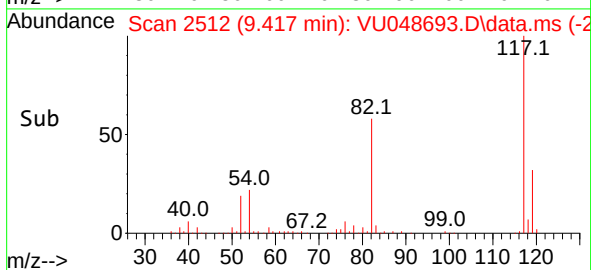
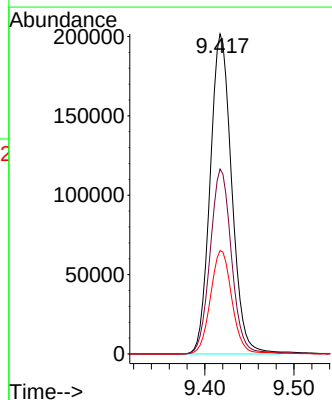
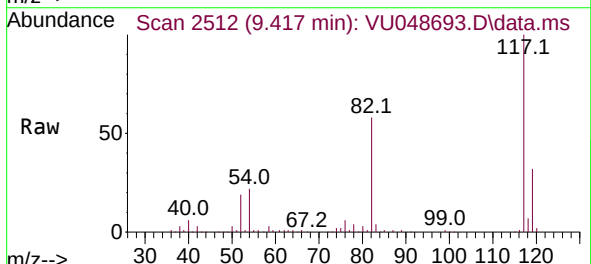
Instrument :
MSVOA_U
ClientSampleId :
MW-15

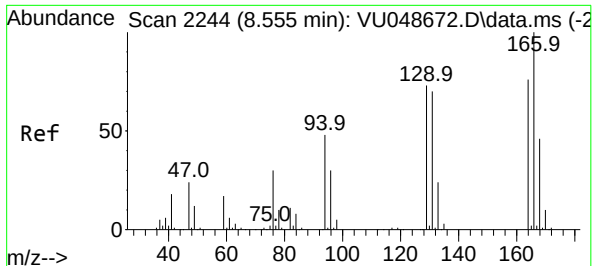
Tgt Ion: 95 Resp: 189772
Ion Ratio Lower Upper
95 100
174 80.9 0.0 159.4
176 77.7 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

Tgt Ion: 117 Resp: 338565
Ion Ratio Lower Upper
117 100
82 57.8 45.3 67.9
119 32.3 25.4 38.2

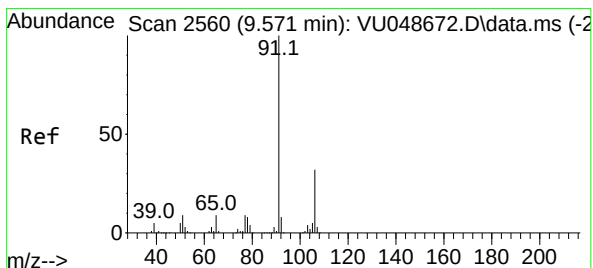
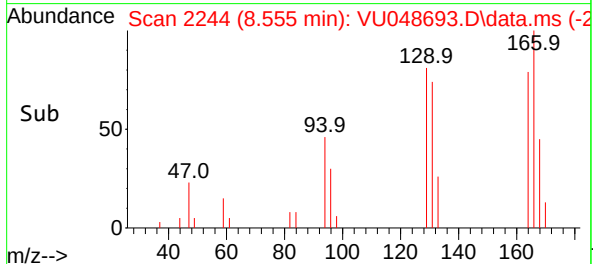
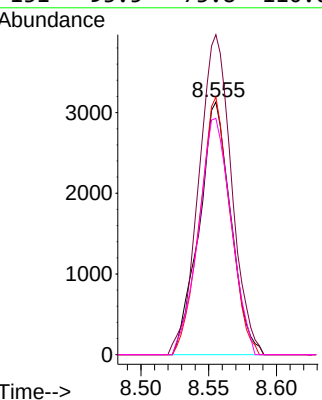
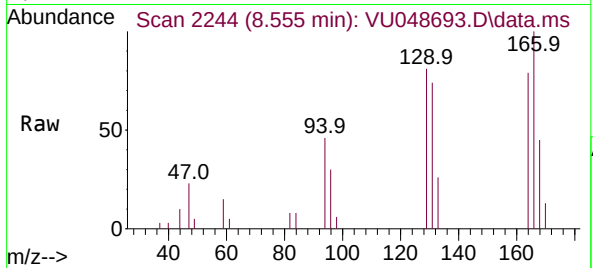




#64
Tetrachloroethene
Concen: 1.084 ug/l
RT: 8.555 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

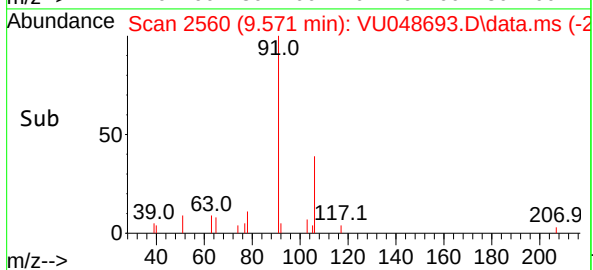
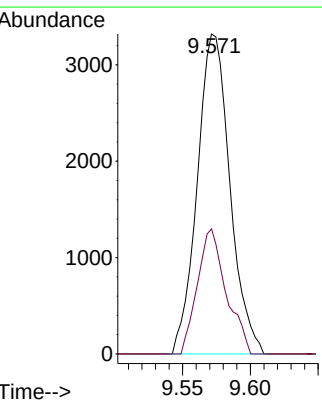
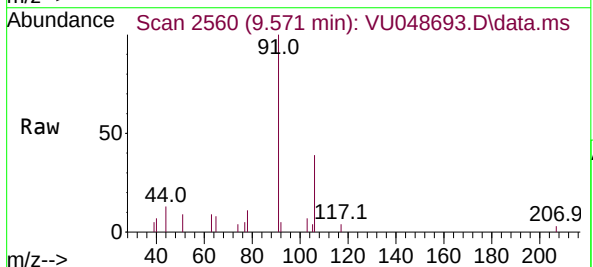
Instrument :
MSVOA_U
ClientSampleId :
MW-15

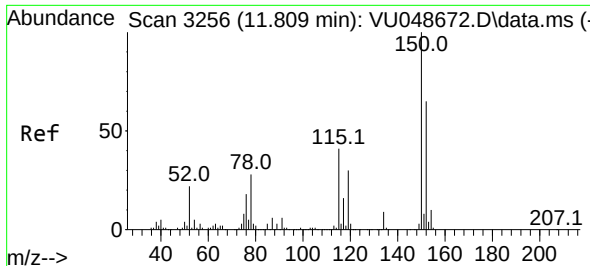
Tgt Ion:164 Resp: 5098
Ion Ratio Lower Upper
164 100
166 126.7 105.0 157.4
129 102.0 76.5 114.7
131 93.5 73.8 110.6



#67
Ethyl Benzene
Concen: 0.461 ug/l
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

Tgt Ion: 91 Resp: 5564
Ion Ratio Lower Upper
91 100
106 39.1 25.4 38.2#

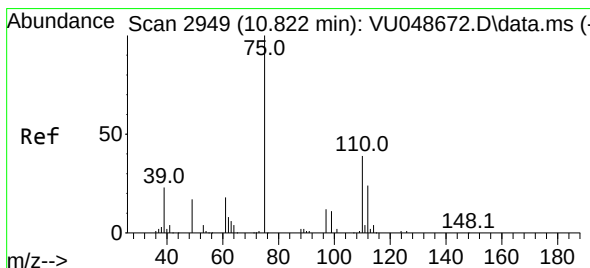
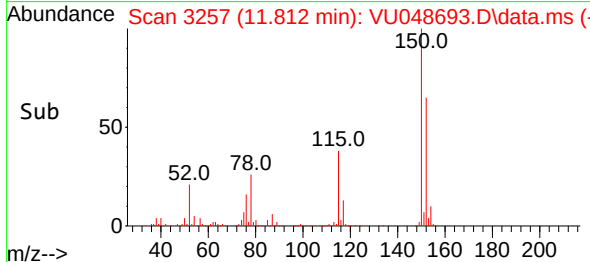
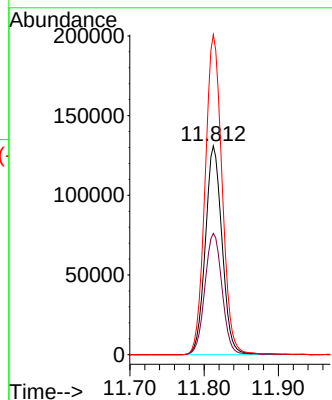
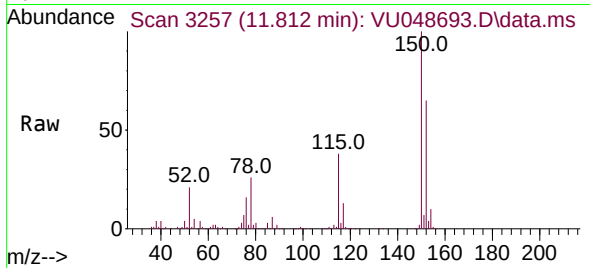




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.812 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU048693.D
 Acq: 27 May 2022 15:04

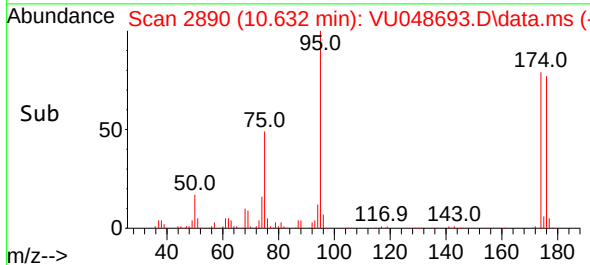
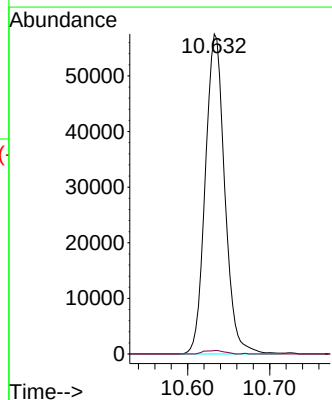
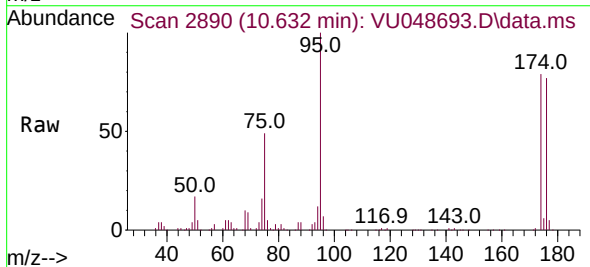
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-15

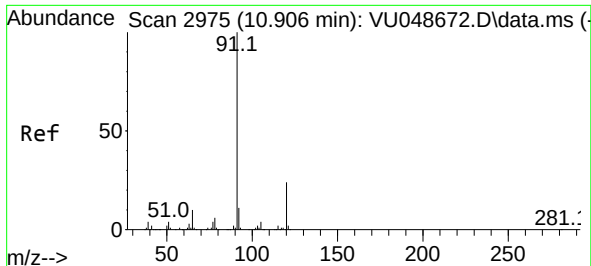
Tgt Ion:152 Resp: 204644
 Ion Ratio Lower Upper
 152 100
 115 60.0 41.8 125.4
 150 155.1 0.0 341.0



#76
 1,2,3-Trichloropropane
 Concen: 14.374 ug/l
 RT: 10.632 min Scan# 2890
 Delta R.T. -0.190 min
 Lab File: VU048693.D
 Acq: 27 May 2022 15:04

Tgt Ion: 75 Resp: 94841
 Ion Ratio Lower Upper
 75 100
 77 1.2 14.8 44.3#

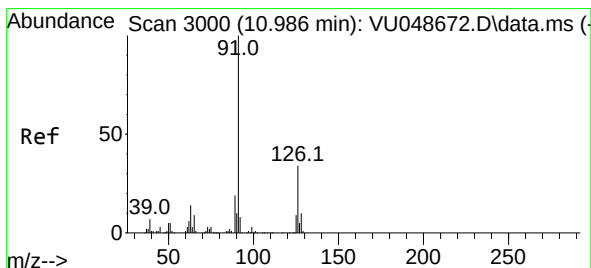
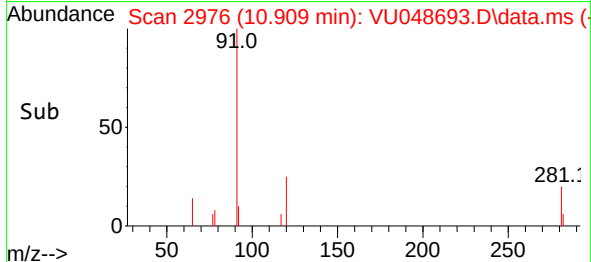
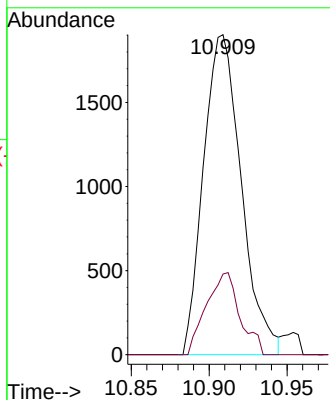
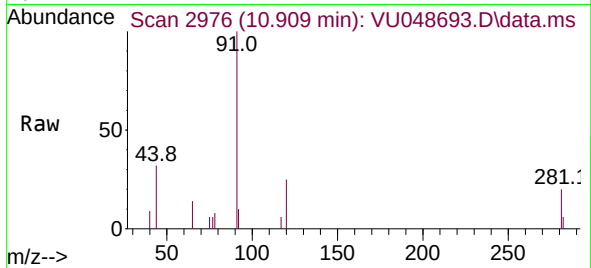




#78
n-propylbenzene
Concen: 0.204 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.003 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

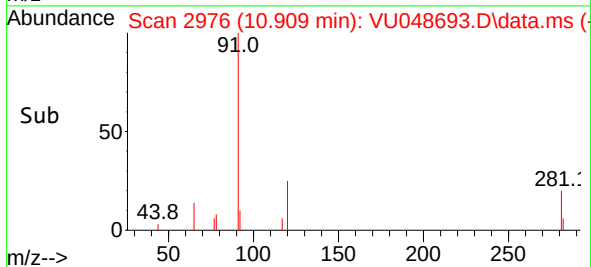
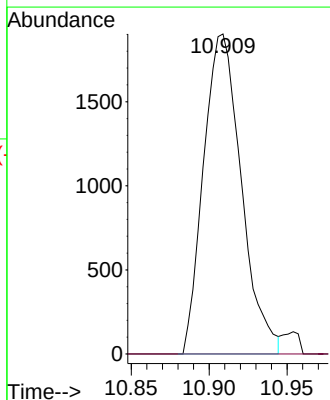
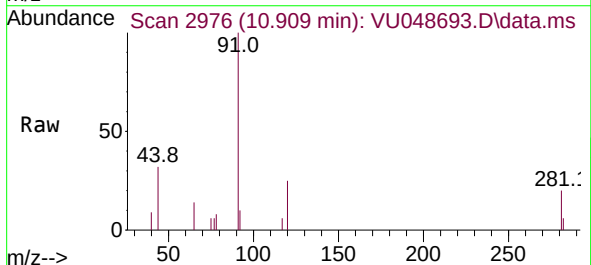
Instrument :
MSVOA_U
ClientSampleId :
MW-15

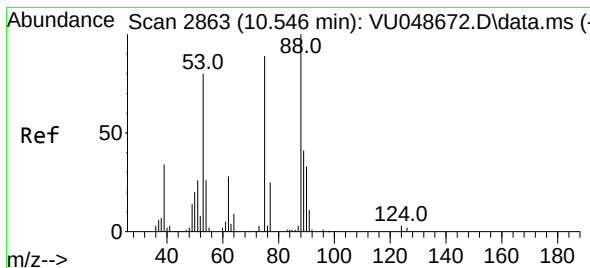
Tgt Ion: 91 Resp: 3211
Ion Ratio Lower Upper
91 100
120 22.7 11.6 34.7



#79
2-Chlorotoluene
Concen: 0.328 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.077 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

Tgt Ion: 91 Resp: 3211
Ion Ratio Lower Upper
91 100
126 0.0 16.7 50.0#

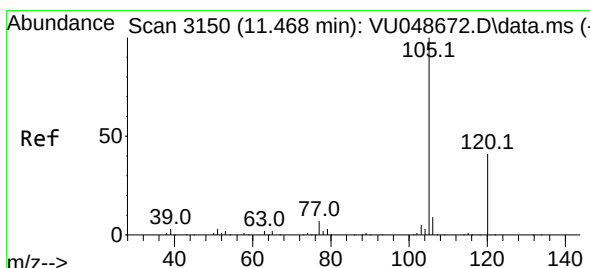
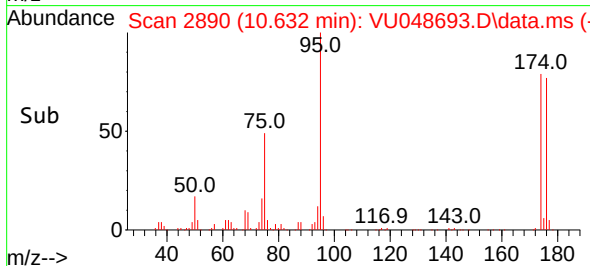
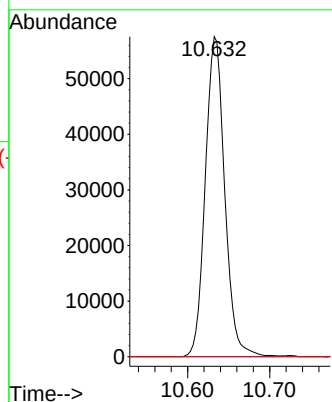
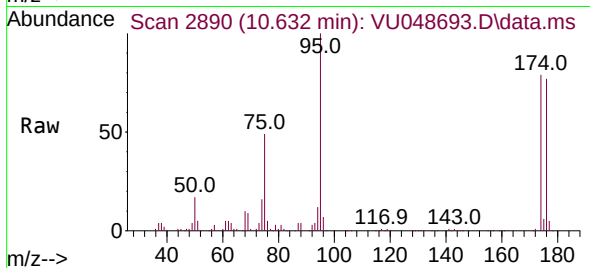




#81
trans-1,4-Dichloro-2-butene
Concen: 52.189 ug/l
RT: 10.632 min Scan# 2863
Delta R.T. 0.087 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

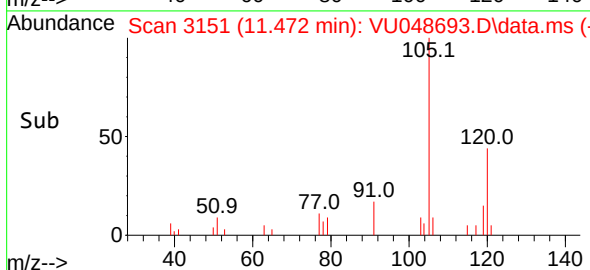
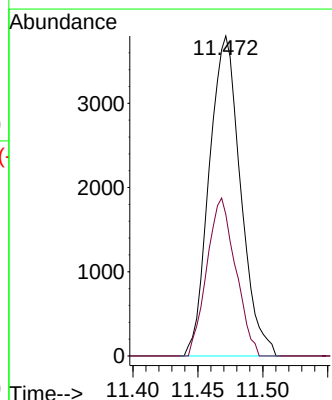
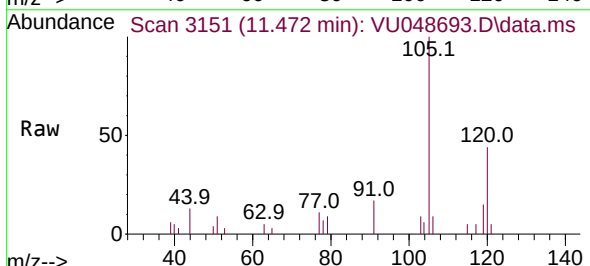
Instrument :
MSVOA_U
ClientSampleId :
MW-15

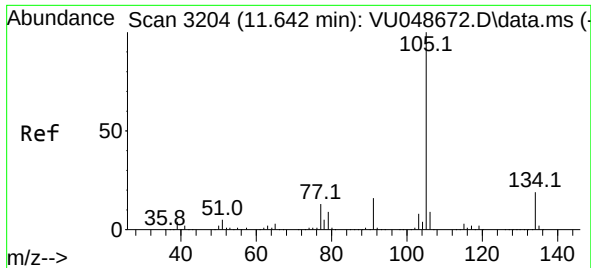
Tgt Ion: 75 Resp: 94841
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.689 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.004 min
Lab File: VU048693.D
Acq: 27 May 2022 15:04

Tgt Ion: 105 Resp: 6365
Ion Ratio Lower Upper
105 100
120 45.3 22.5 67.5

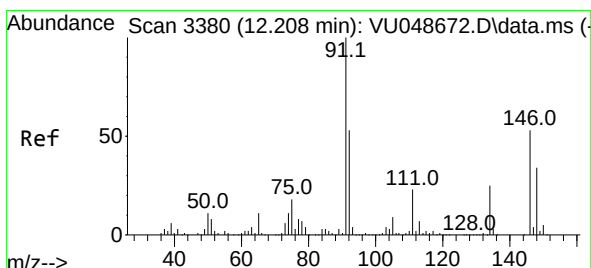
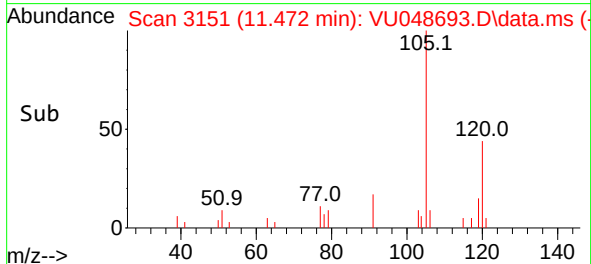
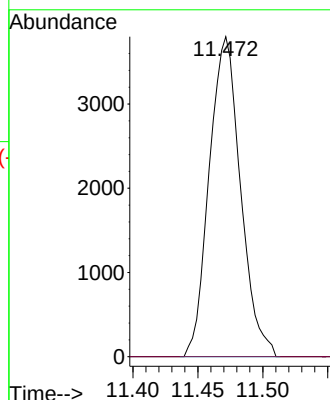
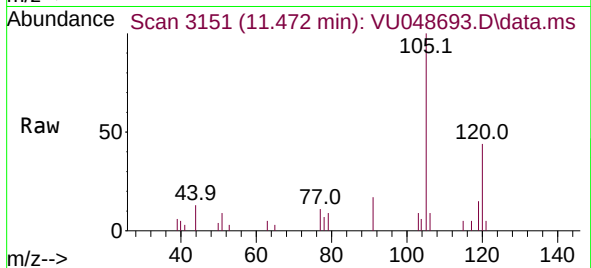




#85
 sec-Butylbenzene
 Concen: 0.461 ug/l
 RT: 11.472 min Scan# 3151
 Delta R.T. -0.170 min
 Lab File: VU048693.D
 Acq: 27 May 2022 15:04

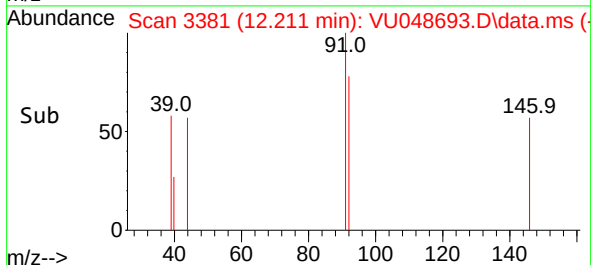
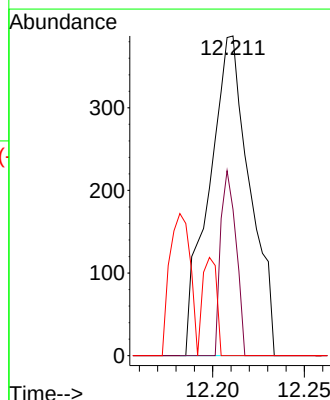
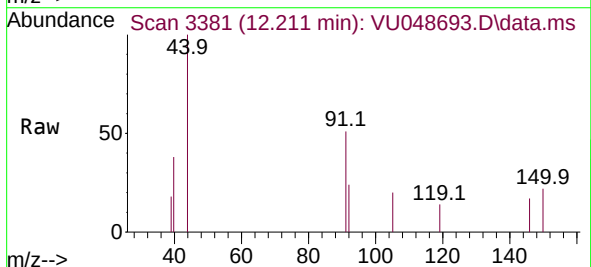
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-15

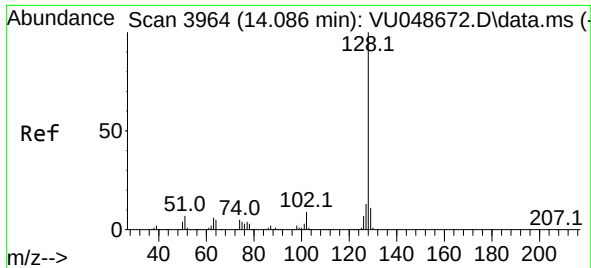
Tgt Ion:105 Resp: 6365
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.6 28.6#



#89
 n-Butylbenzene
 Concen: 2.234 ug/l
 RT: 12.211 min Scan# 3381
 Delta R.T. 0.003 min
 Lab File: VU048693.D
 Acq: 27 May 2022 15:04

Tgt Ion: 91 Resp: 599
 Ion Ratio Lower Upper
 91 100
 92 21.5 25.9 77.8#
 134 10.5 12.5 37.5#





#95
 Naphthalene
 Concen: 7.191 ug/l
 RT: 14.089 min Scan# 3965
 Delta R.T. 0.003 min
 Lab File: VU048693.D
 Acq: 27 May 2022 15:04

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-15

Tgt Ion:	128	Resp:	79034
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	11.1	8.7	13.1

