

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072723\
 Data File : VU054900.D
 Acq On : 27 Jul 2023 17:42
 Operator : MD/SY
 Sample : 03572-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2023

Quant Time: Jul 28 05:47:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072523DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Jul 26 09:45:35 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.113	96	24982	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	7698	1.016	ug/l	0.00
Spiked Amount	1.000		Recovery	= 102.000%		
68) 1,2-Dichlorobenzene-d4	12.196	152	8618	1.007	ug/l	0.00
Spiked Amount	1.000		Recovery	= 101.000%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	1075	0.226	ug/l	79
3) Chloromethane	1.522	50	1560	0.292	ug/l	# 82
4) Vinyl Chloride	1.599	62	1615	0.226	ug/l	100
5) Bromomethane	1.853	94	1692	0.299	ug/l	83
8) 1,1,2-Trichloro-1,2,2-...	2.573	101	1160	0.213	ug/l	# 76
11) Allyl Chloride	2.923	41	1219	0.236	ug/l	94
13) Acetone	2.653	43	1005	0.888	ug/l	# 87
15) Methylene Chloride	3.046	84	3091	0.513	ug/l	95
18) 2-Butanone	4.750	43	764	0.535	ug/l	72
19) Cyclohexane	5.390	56	1764	0.299	ug/l	# 79
23) Diethyl Ether	2.370	59	1501	0.236	ug/l	# 69
24) tert-Butyl Alcohol	3.242	59	375	0.633	ug/l	# 90
25) Methyl tert-Butyl Ether	3.367	73	3153	0.236	ug/l	93
27) Chloroform	5.090	83	3068	0.272	ug/l	92
31) Isopropyl Ether	3.997	45	3396	0.219	ug/l	71
32) Ethyl-t-butyl ether	4.502	59	3356	0.210	ug/l	98
33) Tert-Amyl methyl ether	5.939	73	3372	0.223	ug/l	92
35) Benzene	5.775	78	4662	0.207	ug/l	91
36) 1,2-Dichloroethane	5.791	62	1559	0.244	ug/l	# 73
38) 1,2-Dichloropropane	6.795	63	1430	0.225	ug/l	# 70
41) Tetrahydrofuran	5.065	42	230	0.255	ug/l	# 27
43) Dibromomethane	6.923	93	685	0.229	ug/l	# 66
44) Bromodichloromethane	7.103	83	1790	0.215	ug/l	# 90
45) 4-Methyl-2-Pentanone	7.791	43	4217	1.210	ug/l	93
46) t-1,4-Dichloro-2-butene	10.827	75	1324	0.944	ug/l	# 33
47) Methyl methacrylate	6.981	69	1060	0.388	ug/l	62
48) Ethyl methacrylate	8.335	69	1311	0.237	ug/l	93
49) Toluene	7.971	92	3341	0.233	ug/l	90
52) 1,1,2-Trichloroethane	8.396	97	1021	0.216	ug/l	# 82
53) 1,3-Dichloropropane	8.579	76	1758	0.229	ug/l	# 84
54) 2-Hexanone	8.698	43	2158	0.871	ug/l	93
55) Dibromochloromethane	8.807	129	1237	0.228	ug/l	# 39
56) 1,2-Dibromoethane	8.923	107	1015	0.253	ug/l	76
58) Tetrachloroethene	8.557	164	1407	0.266	ug/l	# 79
59) Chlorobenzene	9.450	112	3767	0.217	ug/l	98
63) Ethyl Benzene	9.569	91	6430	0.220	ug/l	96
64) m/p-Xylenes	9.695	106	4481	0.410	ug/l	91
65) o-Xylene	10.103	106	2622	0.234	ug/l	89
66) Styrene	10.113	104	3825	0.213	ug/l	95
69) Isopropylbenzene	10.486	105	6524	0.217	ug/l	100
71) 1,2,3-Trichloropropane	10.827	75	1324	0.317	ug/l	# 50
72) Bromobenzene	10.788	156	1478	0.220	ug/l	79
73) n-propylbenzene	10.907	120	1631	0.202	ug/l	88

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

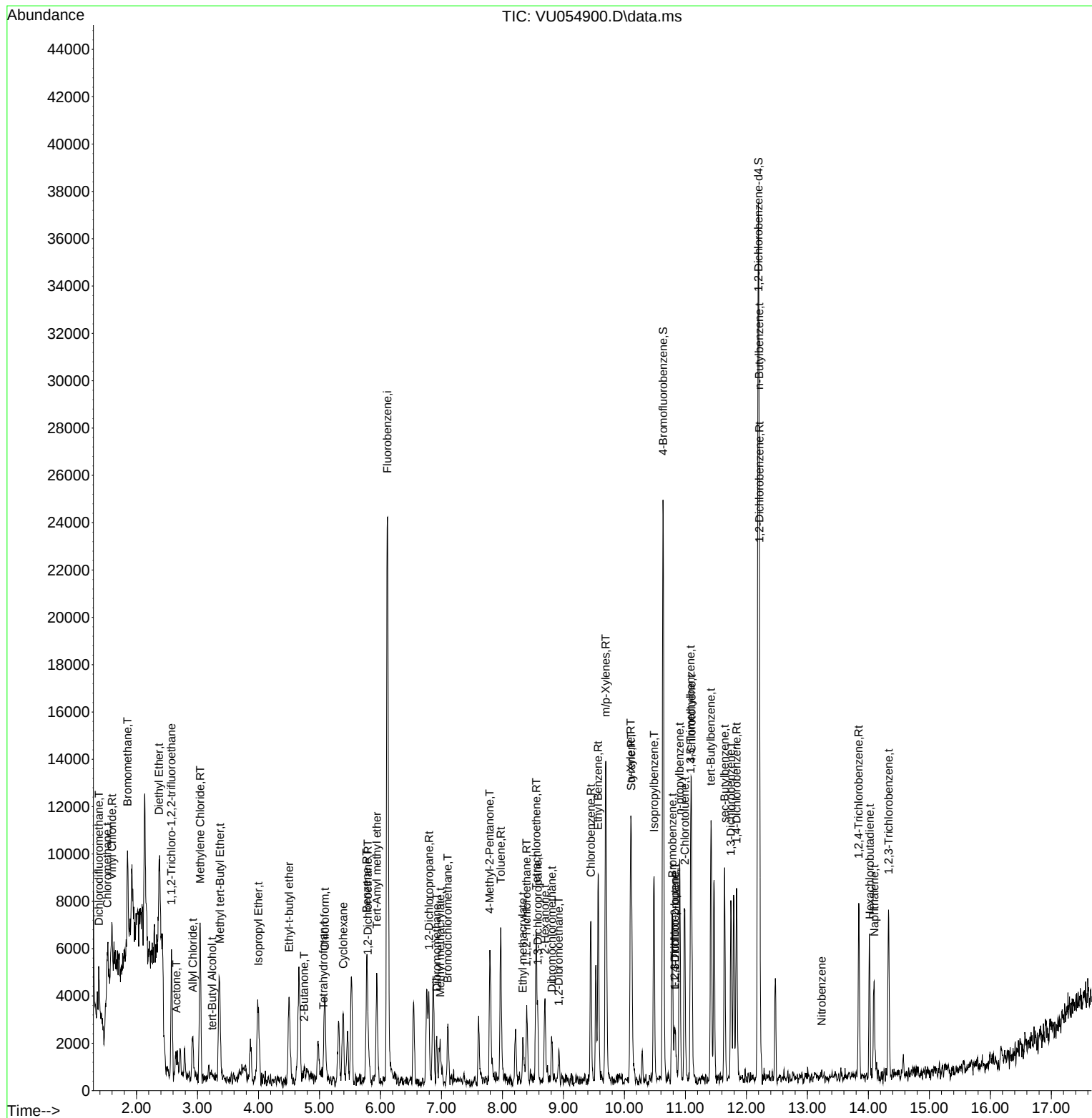
74) 2-Chlorotoluene	10.991	126	1598	0.229	ug/l	94
75) 1,3,5-Trimethylbenzene	11.087	105	5179	0.212	ug/l	97
76) 4-Chlorotoluene	11.100	126	1749	0.241	ug/l	93
77) tert-Butylbenzene	11.418	119	5275	0.208	ug/l	97
79) sec-Butylbenzene	11.643	105	6618	0.201	ug/l	99
80) Nitrobenzene	13.235	77	104	0.675	ug/l #	39
82) 1,3-Dichlorobenzene	11.746	146	3307	0.232	ug/l	95
83) 1,4-Dichlorobenzene	11.839	146	3572	0.251	ug/l	99
84) n-Butylbenzene	12.209	91	5548	0.237	ug/l	90
85) 1,2-Dichlorobenzene	12.216	146	3345	0.244	ug/l	95
87) 1,2,4-Trichlorobenzene	13.843	180	2410	0.276	ug/l	91
88) Hexachlorobutadiene	14.023	225	1222	0.263	ug/l #	77
89) Naphthalene	14.097	128	4388	0.325	ug/l #	94
90) 1,2,3-Trichlorobenzene	14.335	180	2725	0.352	ug/l #	88

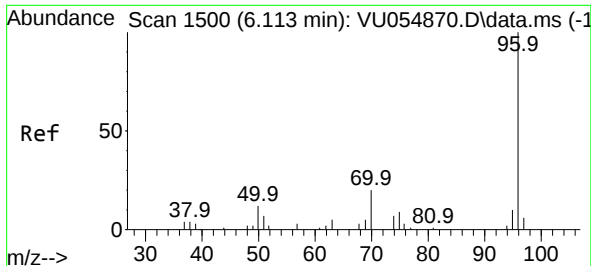
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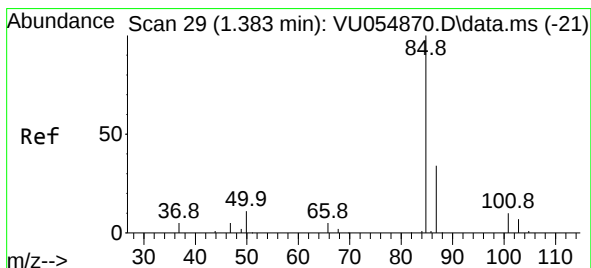
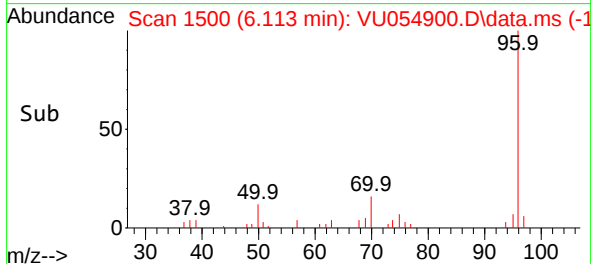
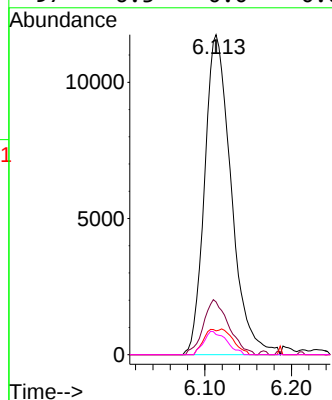
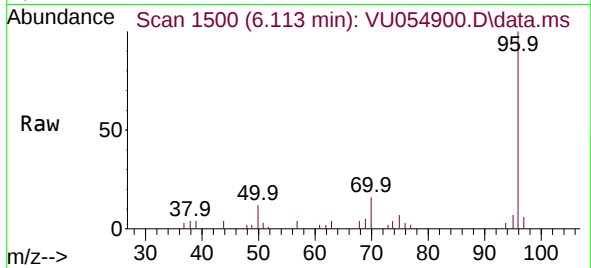




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1
Delta R.T. -0.000 min
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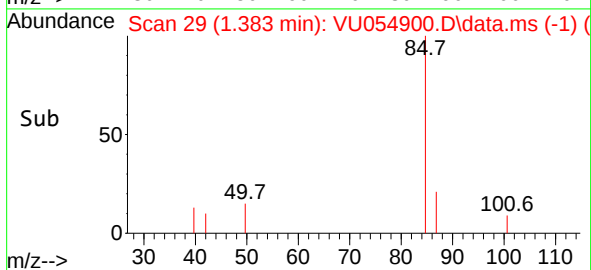
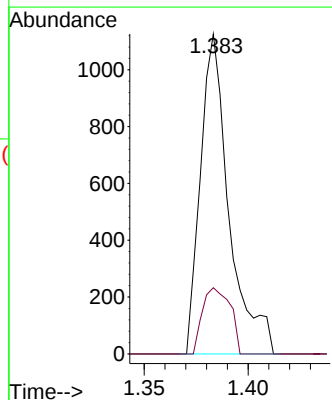
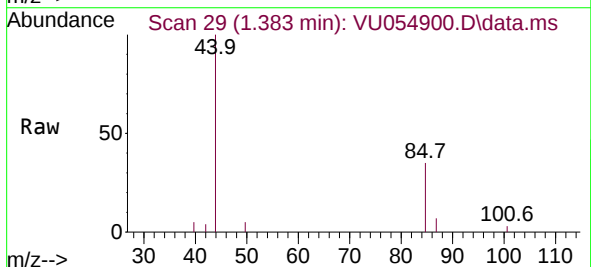
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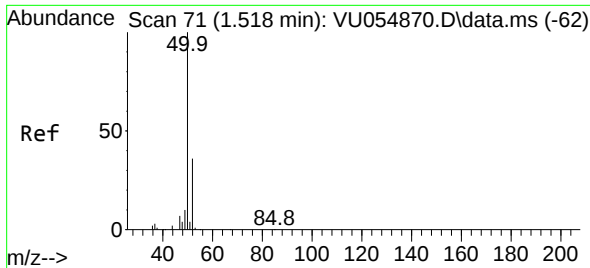
Tgt Ion:	96	Resp:	24982
Ion	Ratio	Lower	Upper
96	100		
70	16.4	14.0	21.0
95	4.0	8.7	13.1#
97	6.3	0.0	0.0#



#2
Dichlorodifluoromethane
Concen: 0.226 ug/l
RT: 1.383 min Scan# 29
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:	85	Resp:	1075
Ion	Ratio	Lower	Upper
85	100		
87	20.7	16.2	48.6

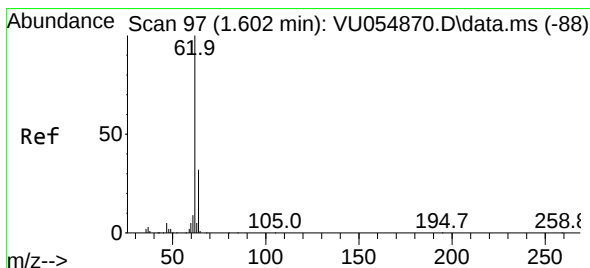
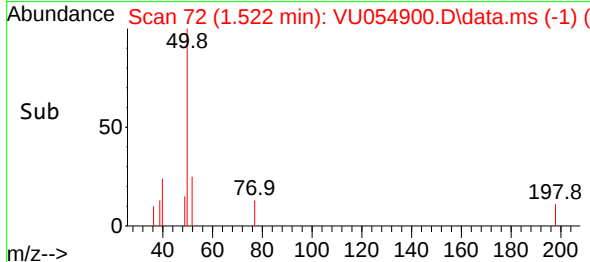
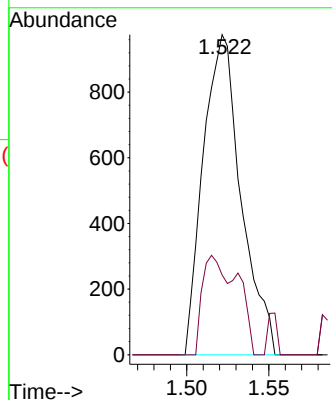
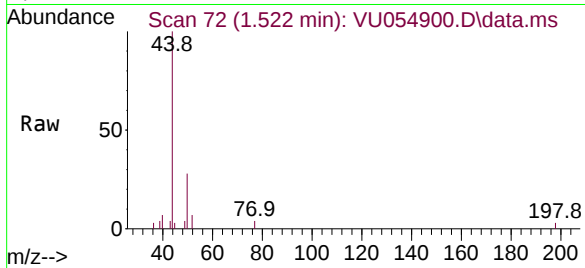




#3
Chloromethane
Concen: 0.292 ug/l
RT: 1.522 min Scan# 71
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

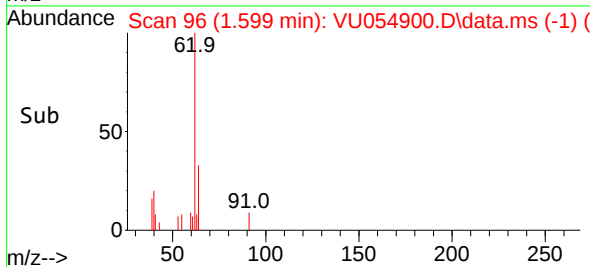
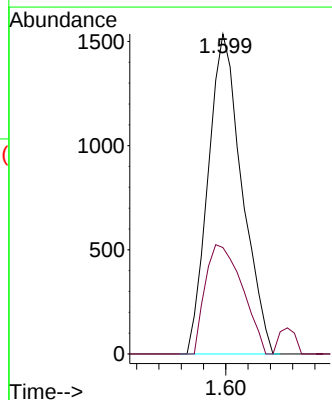
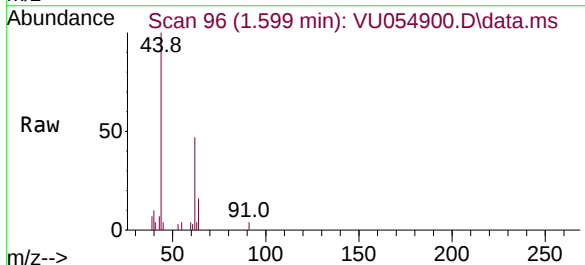
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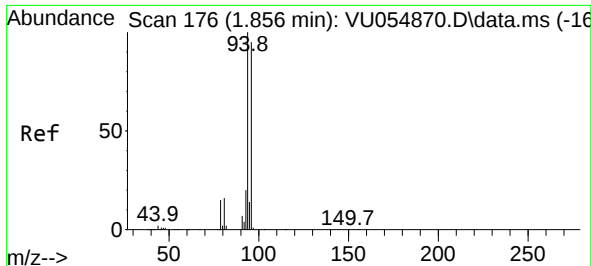
Tgt Ion: 50 Resp: 1560
Ion Ratio Lower Upper
50 100
52 24.9 28.2 42.2#



#4
Vinyl Chloride
Concen: 0.226 ug/l
RT: 1.599 min Scan# 96
Delta R.T. -0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 62 Resp: 1615
Ion Ratio Lower Upper
62 100
64 33.3 26.4 39.6

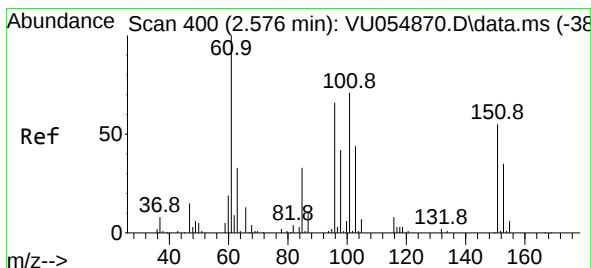
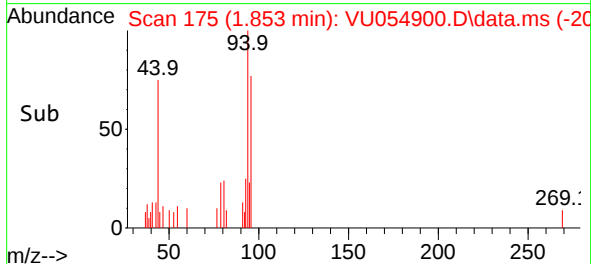
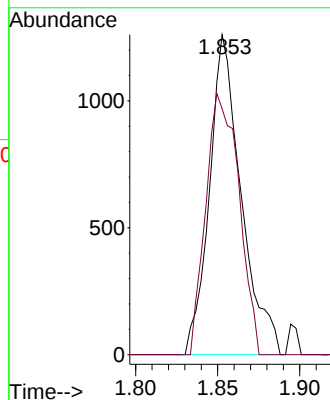
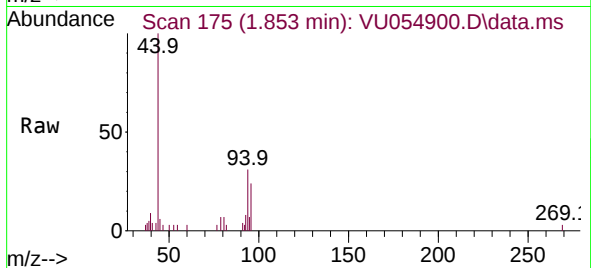




#5
Bromomethane
Concen: 0.299 ug/l
RT: 1.853 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

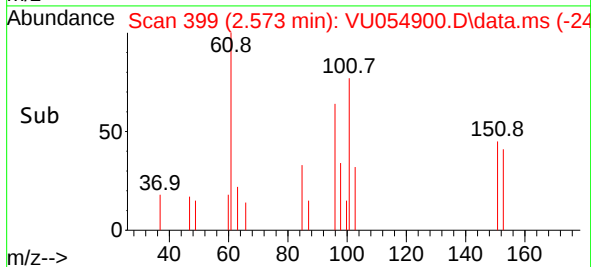
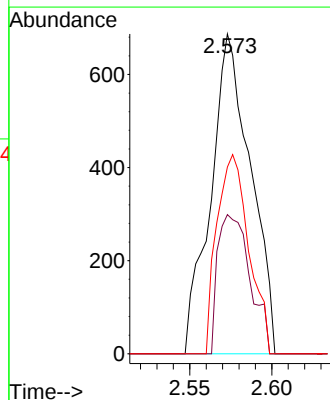
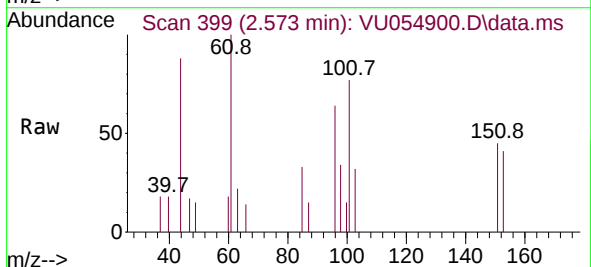
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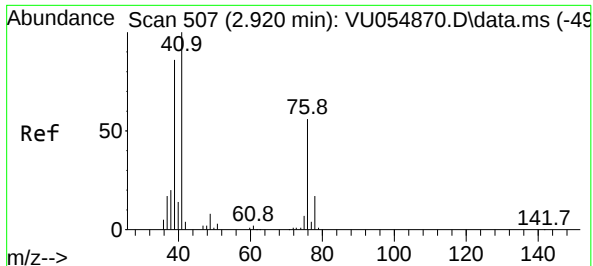
Tgt Ion: 94 Resp: 1692
Ion Ratio Lower Upper
94 100
96 76.8 74.6 111.8



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.213 ug/l
RT: 2.573 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:101 Resp: 1160
Ion Ratio Lower Upper
101 100
85 35.2 34.8 52.2
151 49.8 60.5 90.7#

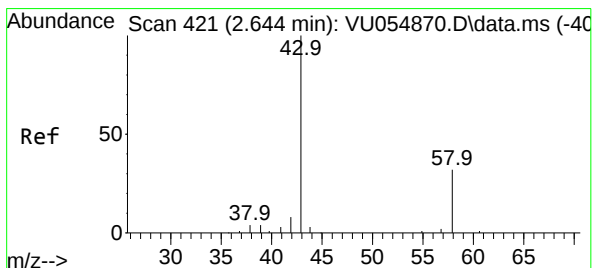
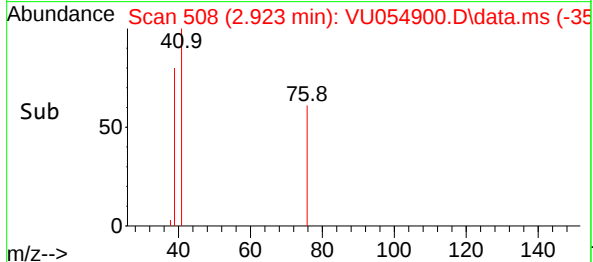
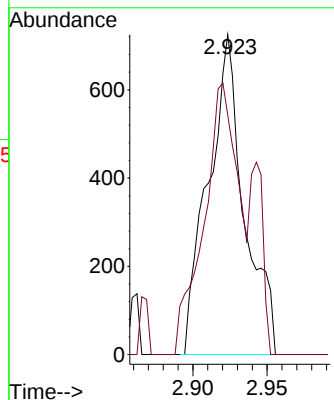
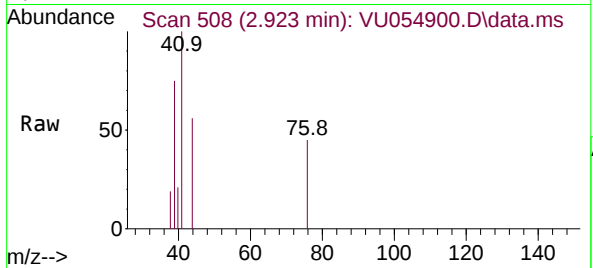




#11
 Allyl Chloride
 Concen: 0.236 ug/l
 RT: 2.923 min Scan# 507
 Delta R.T. 0.003 min
 Lab File: VU054900.D
 Acq: 27 Jul 2023 17:42

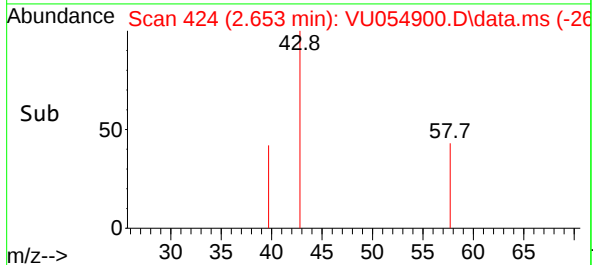
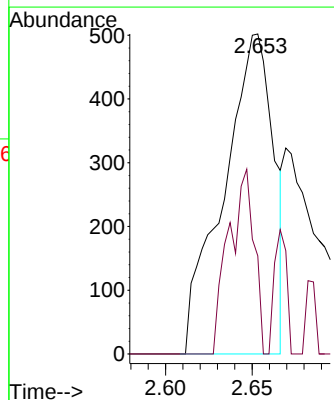
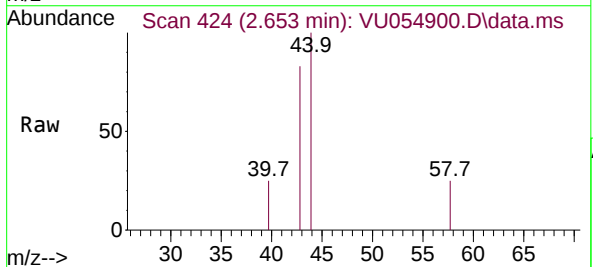
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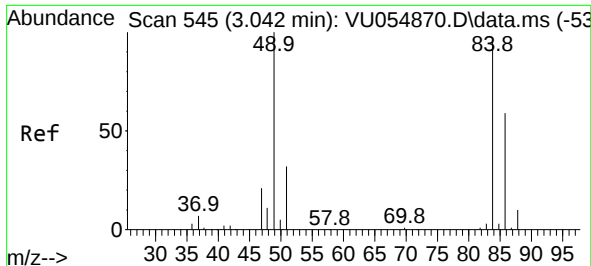
Tgt Ion: 41 Resp: 1219
 Ion Ratio Lower Upper
 41 100
 39 81.7 70.2 105.2



#13
 Acetone
 Concen: 0.888 ug/l
 RT: 2.653 min Scan# 424
 Delta R.T. 0.010 min
 Lab File: VU054900.D
 Acq: 27 Jul 2023 17:42

Tgt Ion: 43 Resp: 1005
 Ion Ratio Lower Upper
 43 100
 58 30.7 30.7 46.1#

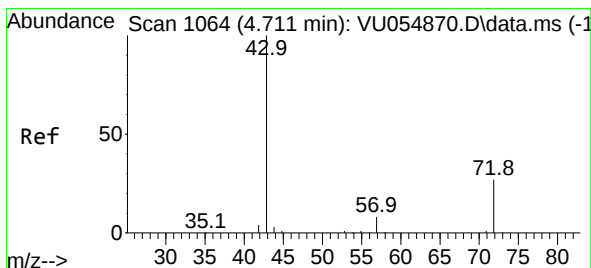
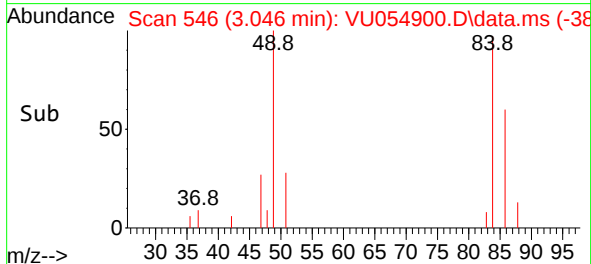
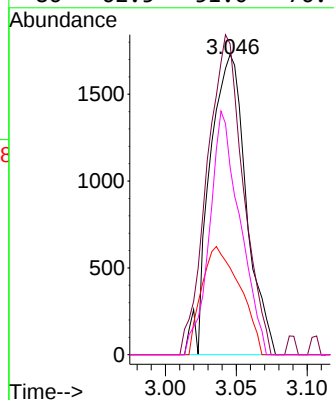
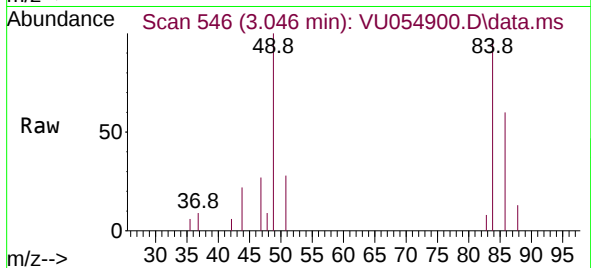




#15
Methylene Chloride
Concen: 0.513 ug/l
RT: 3.046 min Scan# 54
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

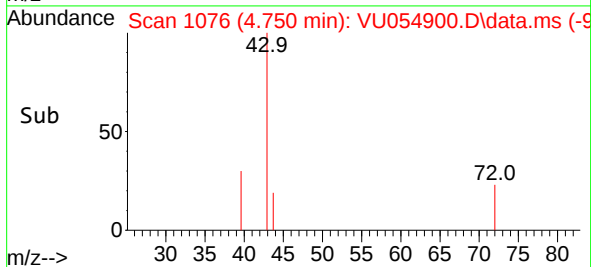
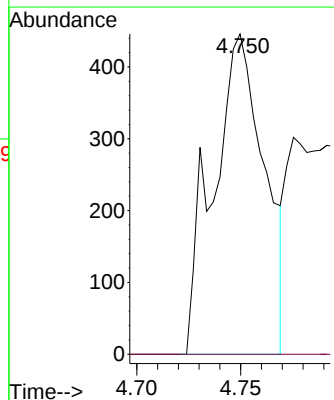
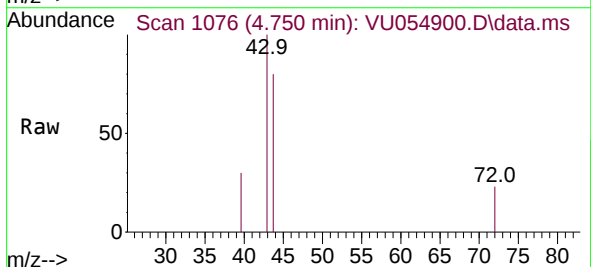
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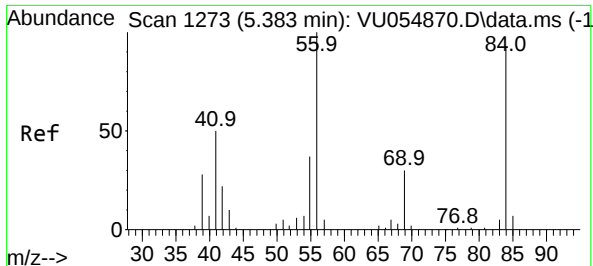
Tgt Ion: 84	Resp: 3091
Ion Ratio	Lower Upper
84 100	
49 103.5	87.8 131.6
51 28.9	0.0 68.2
86 62.5	51.0 76.4



#18
2-Butanone
Concen: 0.535 ug/l
RT: 4.750 min Scan# 1076
Delta R.T. 0.039 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 43	Resp: 764
Ion Ratio	Lower Upper
43 100	
57 0.0	0.0 20.8





#19

Cyclohexane

Concen: 0.299 ug/l

RT: 5.390 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

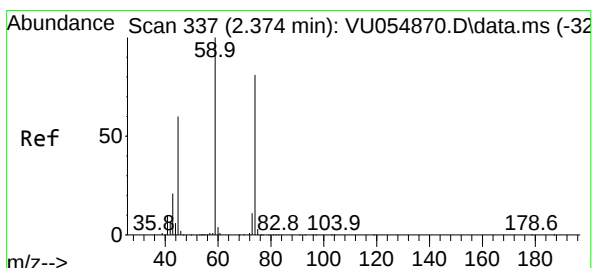
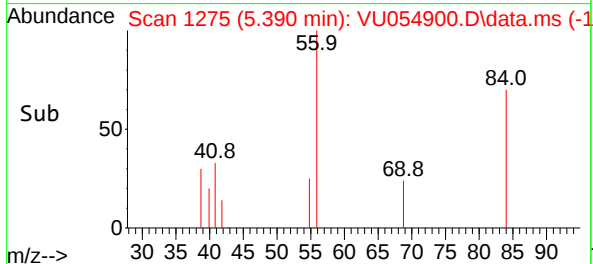
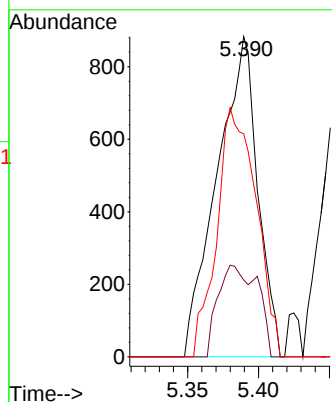
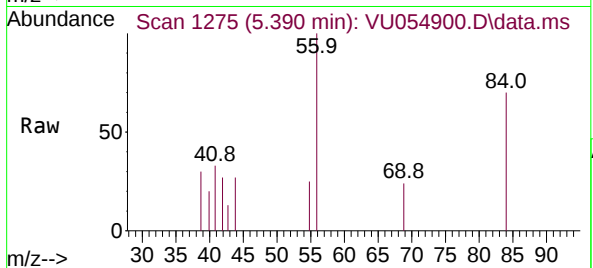
Tgt Ion: 56 Resp: 1764

Ion Ratio Lower Upper

56 100

69 20.0 24.7 37.1#

84 75.2 76.5 114.7#



#23

Diethyl Ether

Concen: 0.236 ug/l

RT: 2.370 min Scan# 336

Delta R.T. -0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

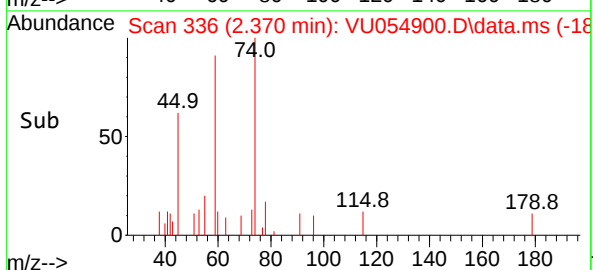
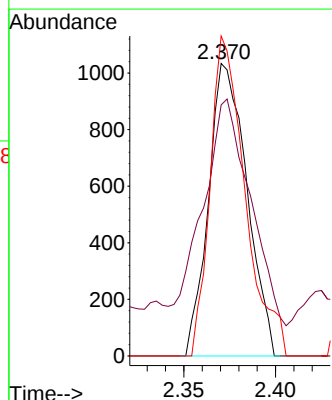
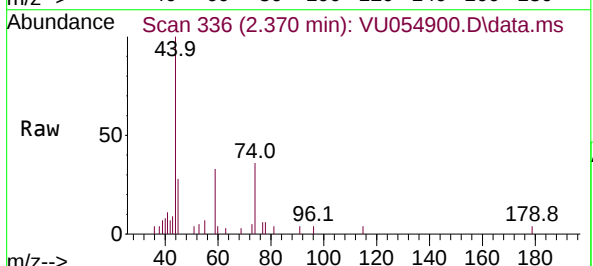
Tgt Ion: 59 Resp: 1501

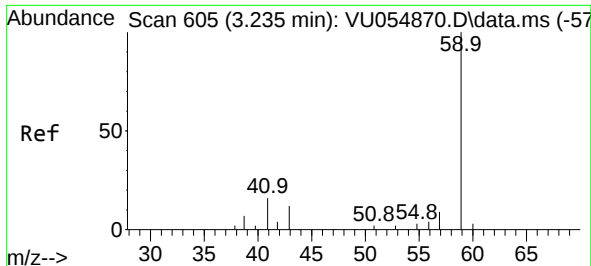
Ion Ratio Lower Upper

59 100

45 95.4 51.4 77.0#

74 99.9 63.1 94.7#

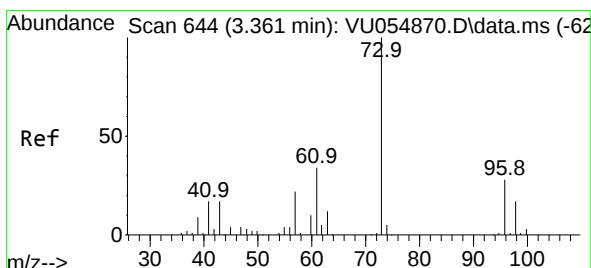
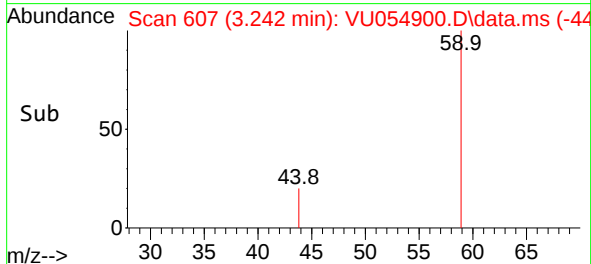
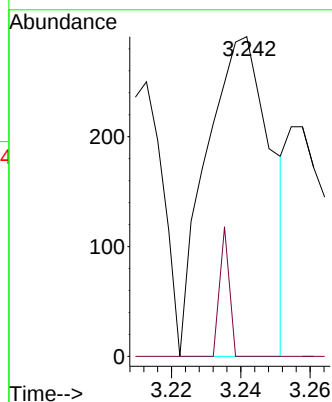
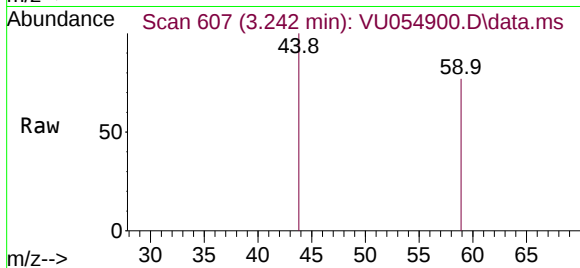




#24
tert-Butyl Alcohol
Concen: 0.633 ug/l
RT: 3.242 min Scan# 605
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

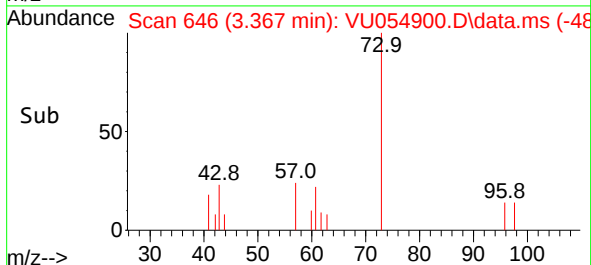
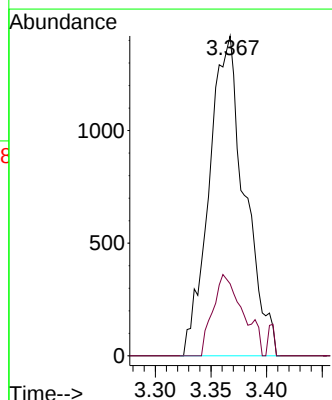
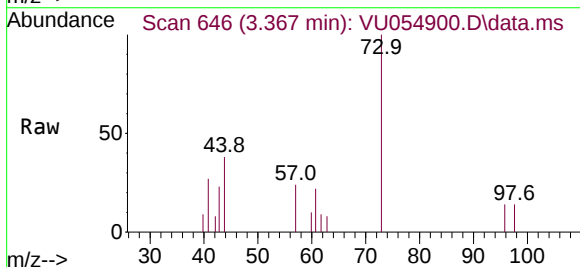
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

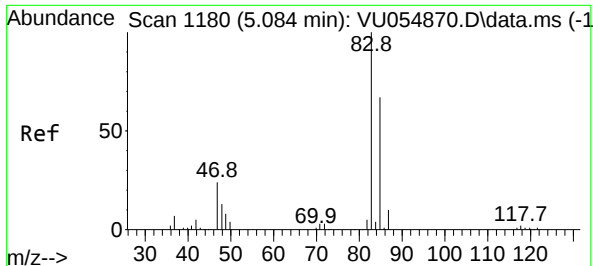
Tgt Ion: 59 Resp: 375
Ion Ratio Lower Upper
59 100
57 6.1 2.2 3.2#



#25
Methyl tert-Butyl Ether
Concen: 0.236 ug/l
RT: 3.367 min Scan# 646
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 73 Resp: 3153
Ion Ratio Lower Upper
73 100
43 21.5 14.6 22.0





#27

Chloroform

Concen: 0.272 ug/l

RT: 5.090 min Scan# 1180

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

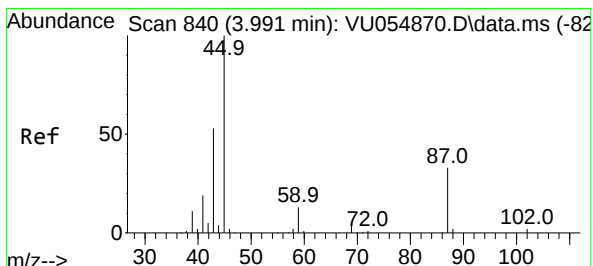
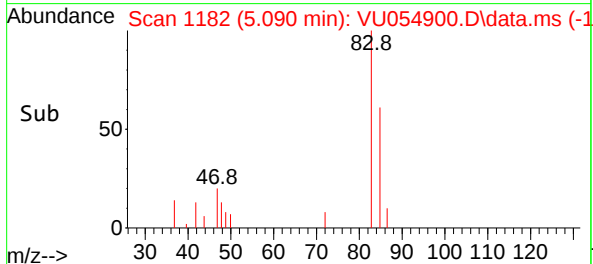
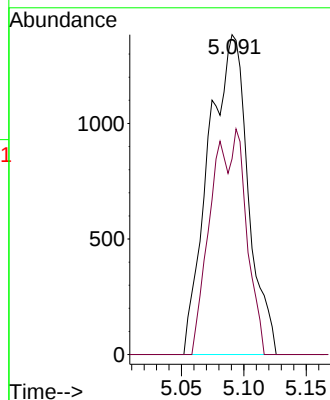
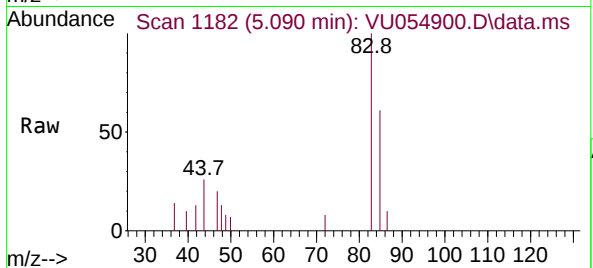
MDL-WATER-03-QT3-2023

Tgt Ion: 83 Resp: 3068

Ion Ratio Lower Upper

83 100

85 61.2 0.0 135.2



#31

Isopropyl Ether

Concen: 0.219 ug/l

RT: 3.997 min Scan# 842

Delta R.T. 0.006 min

Lab File: VU054900.D

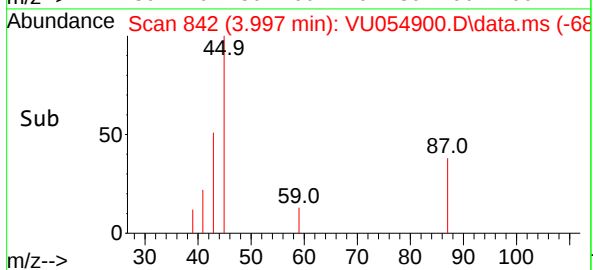
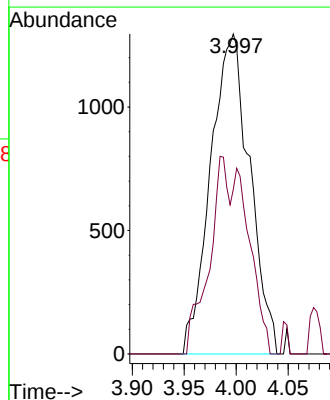
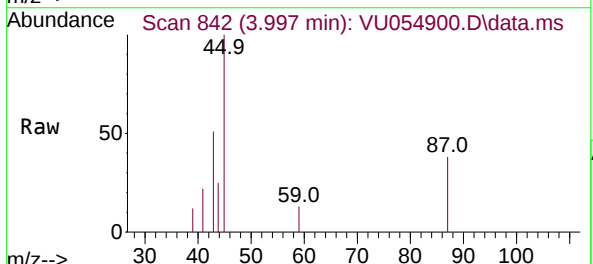
Acq: 27 Jul 2023 17:42

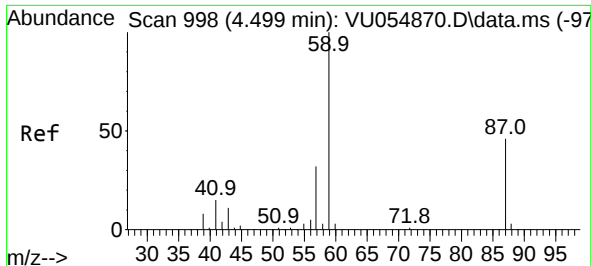
Tgt Ion: 45 Resp: 3396

Ion Ratio Lower Upper

45 100

43 31.9 26.4 79.2

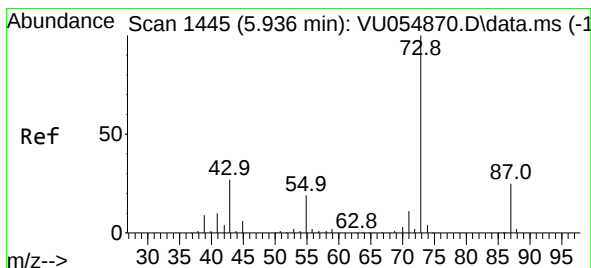
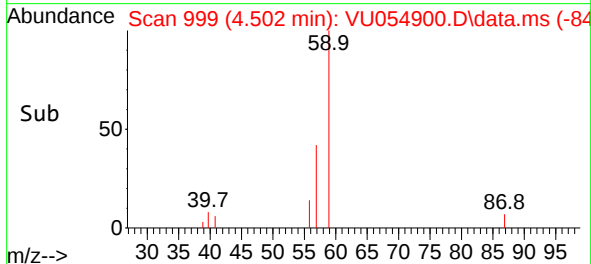
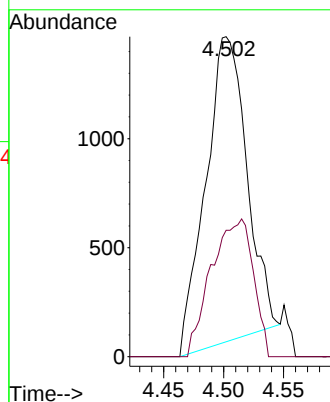
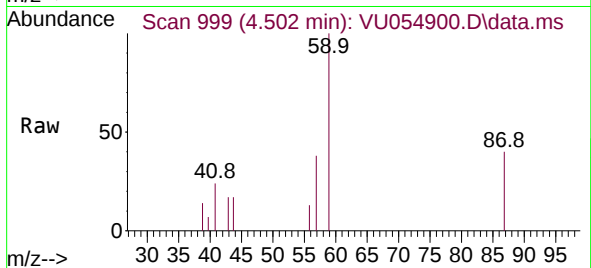




#32
Ethyl-t-butyl ether
Concen: 0.210 ug/l
RT: 4.502 min Scan# 999
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

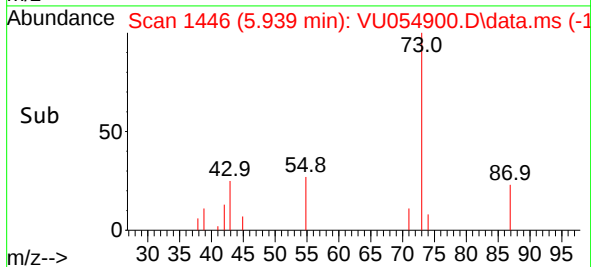
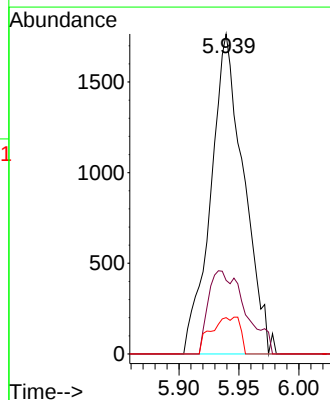
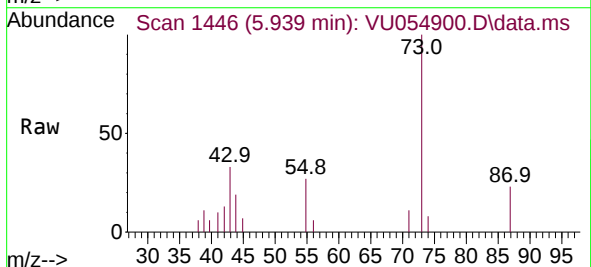
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

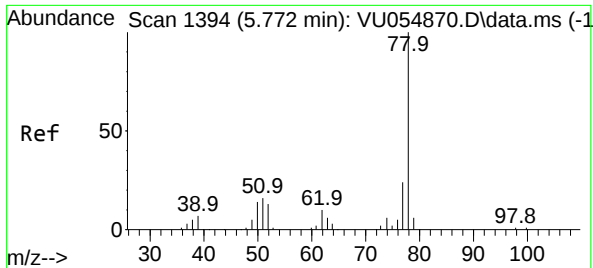
Tgt Ion: 59 Resp: 3356
Ion Ratio Lower Upper
59 100
87 45.8 35.7 53.5



#33
Tert-Amyl methyl ether
Concen: 0.223 ug/l
RT: 5.939 min Scan# 1446
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 73 Resp: 3372
Ion Ratio Lower Upper
73 100
87 29.2 19.6 29.4
71 10.1 9.1 13.7

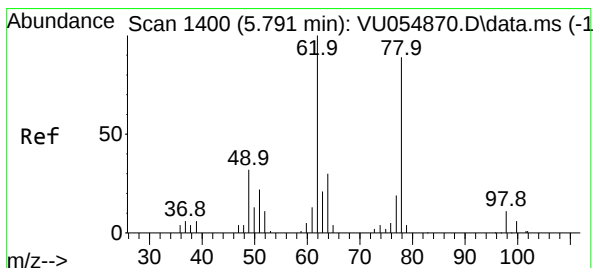
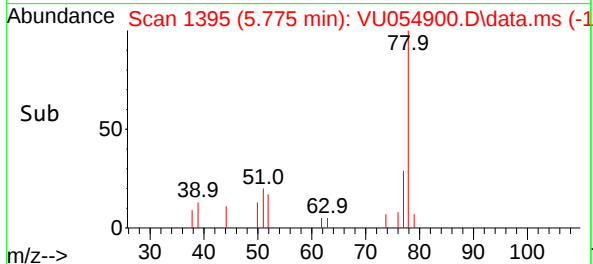
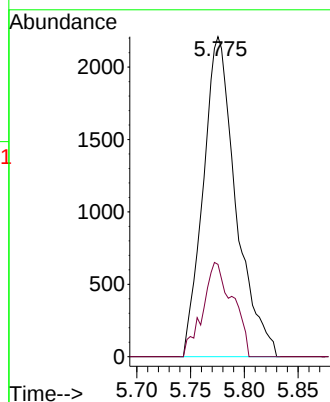
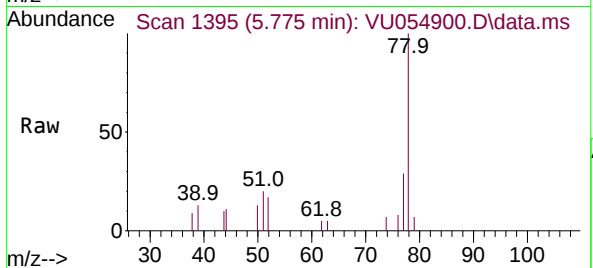




#35
Benzene
Concen: 0.207 ug/l
RT: 5.775 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

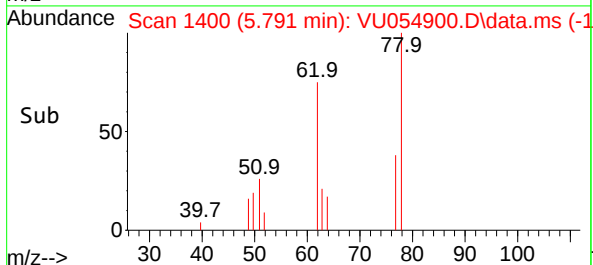
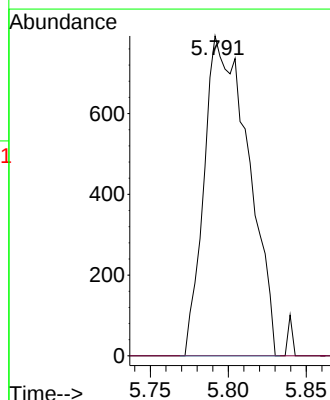
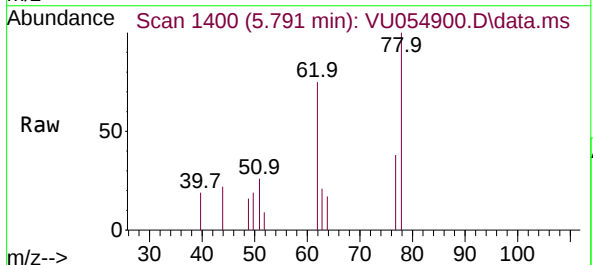
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

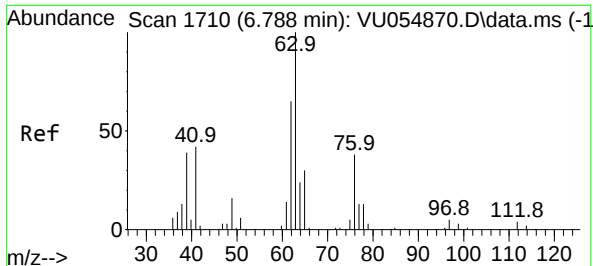
Tgt Ion: 78 Resp: 4662
Ion Ratio Lower Upper
78 100
77 28.9 19.4 29.2



#36
1,2-Dichloroethane
Concen: 0.244 ug/l
RT: 5.791 min Scan# 1400
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 62 Resp: 1559
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.8#





#38

1,2-Dichloropropane

Concen: 0.225 ug/l

RT: 6.795 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

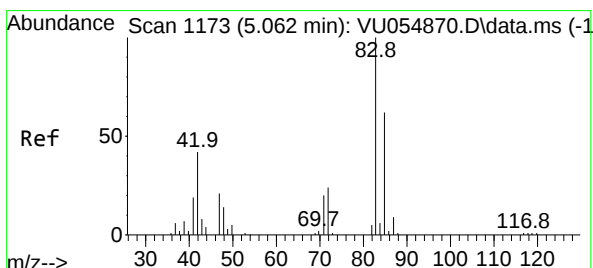
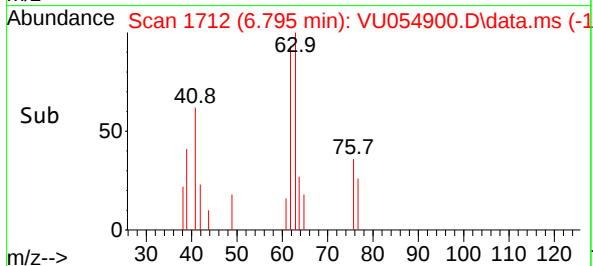
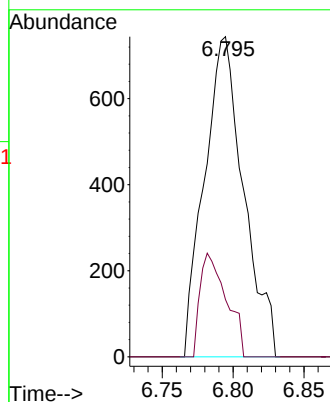
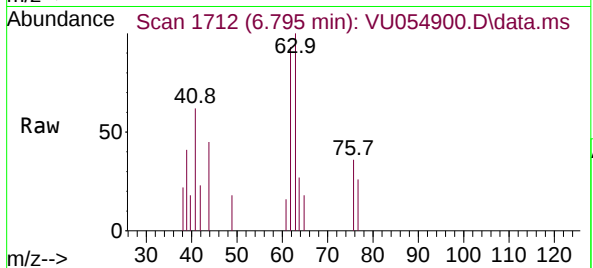
MDL-WATER-03-QT3-2023

Tgt Ion: 63 Resp: 1430

Ion Ratio Lower Upper

63 100

65 14.1 24.3 36.5#



#41

Tetrahydrofuran

Concen: 0.255 ug/l

RT: 5.065 min Scan# 1174

Delta R.T. 0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

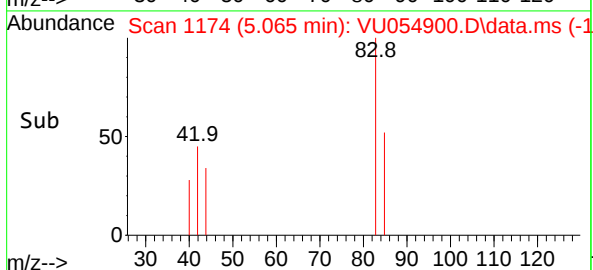
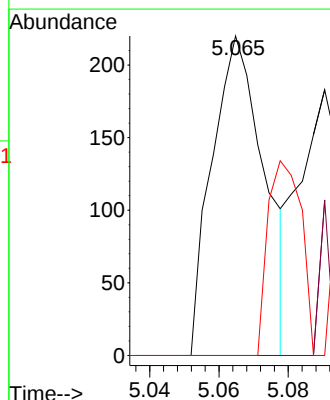
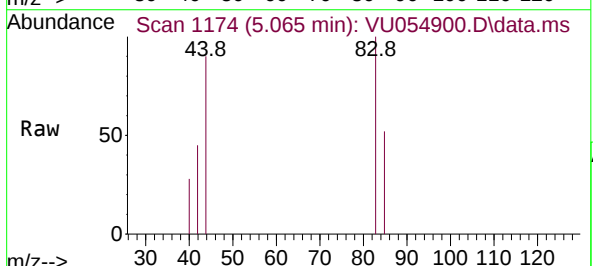
Tgt Ion: 42 Resp: 230

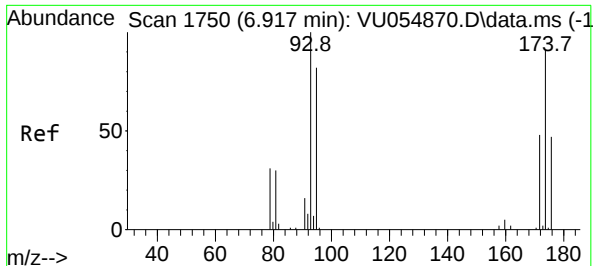
Ion Ratio Lower Upper

42 100

72 0.0 42.1 63.1#

71 0.0 39.7 59.5#

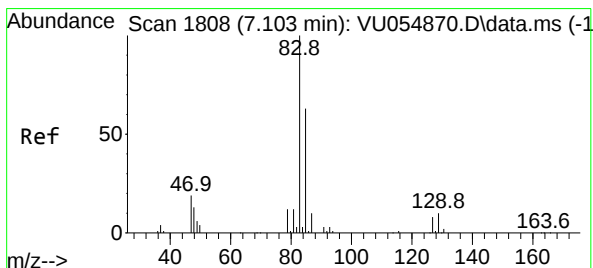
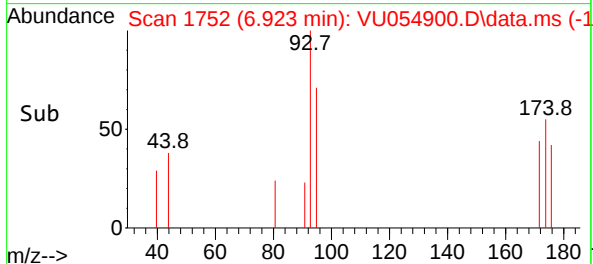
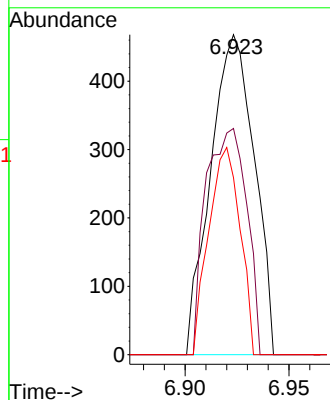
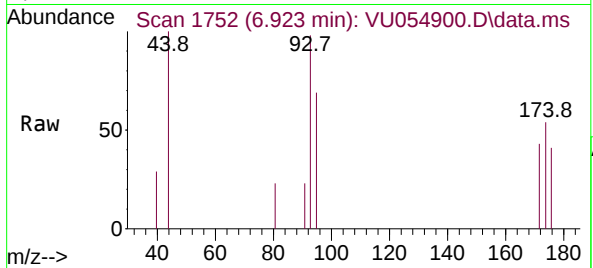




#43
Dibromomethane
Concen: 0.229 ug/l
RT: 6.923 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

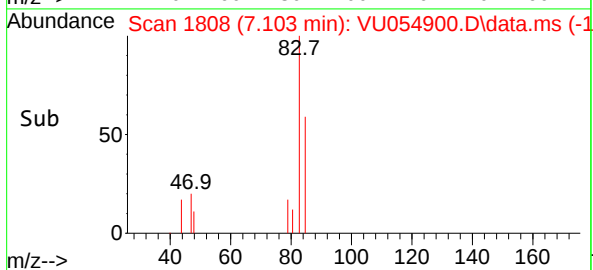
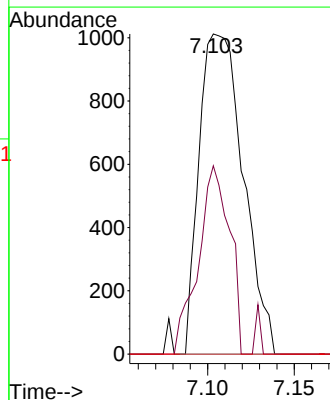
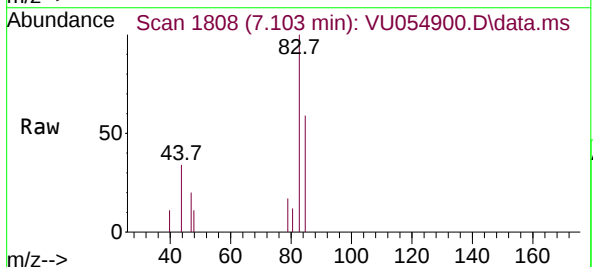
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

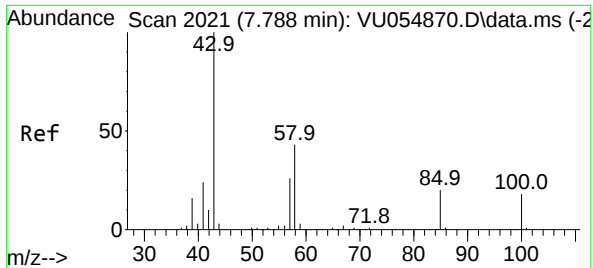
Tgt Ion: 93 Resp: 685
Ion Ratio Lower Upper
93 100
95 65.8 64.7 97.1
174 46.3 74.4 111.6#



#44
Bromodichloromethane
Concen: 0.215 ug/l
RT: 7.103 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 83 Resp: 1790
Ion Ratio Lower Upper
83 100
85 58.8 52.2 78.2
127 0.0 6.1 9.1#





#45

4-Methyl-2-Pentanone

Concen: 1.210 ug/l

RT: 7.791 min Scan# 2021

Delta R.T. 0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

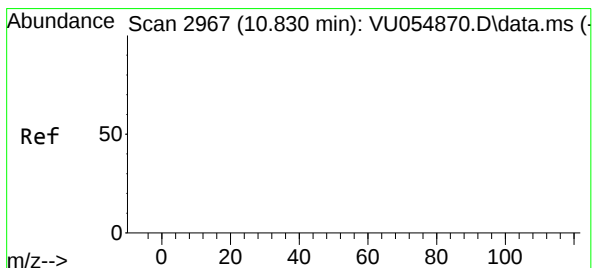
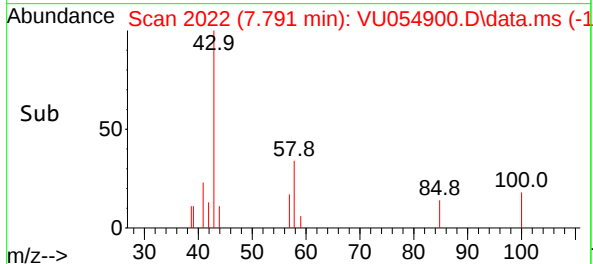
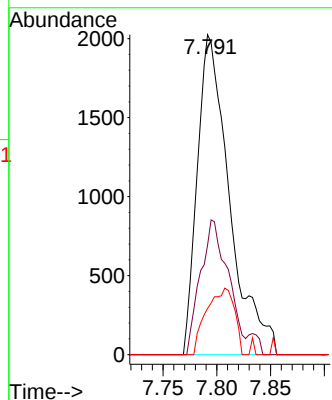
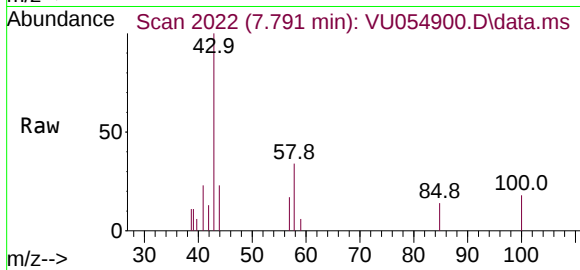
Tgt Ion: 43 Resp: 4217

Ion Ratio Lower Upper

43 100

58 36.4 21.3 63.7

85 18.0 15.3 22.9



#46

t-1,4-Dichloro-2-butene

Concen: 0.944 ug/l

RT: 10.827 min Scan# 2966

Delta R.T. -0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Tgt Ion: 75 Resp: 1324

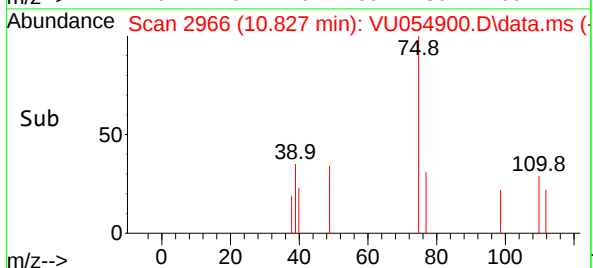
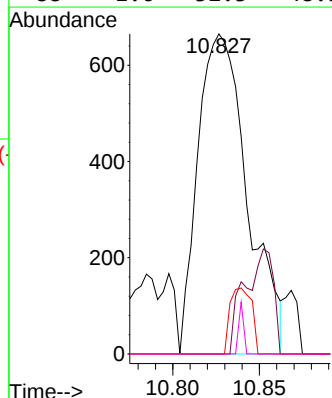
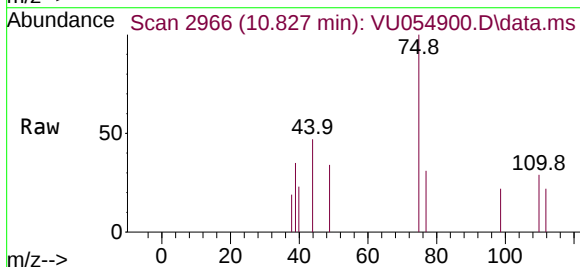
Ion Ratio Lower Upper

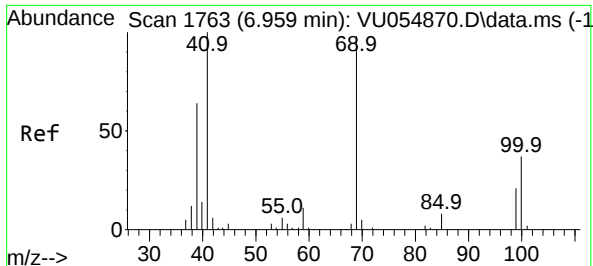
75 100

53 18.8 62.9 94.3#

89 8.9 47.8 71.8#

88 1.6 32.3 48.5#





#47

Methyl methacrylate

Concen: 0.388 ug/l

RT: 6.981 min Scan# 1

Delta R.T. 0.023 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

Tgt Ion: 69 Resp: 1060

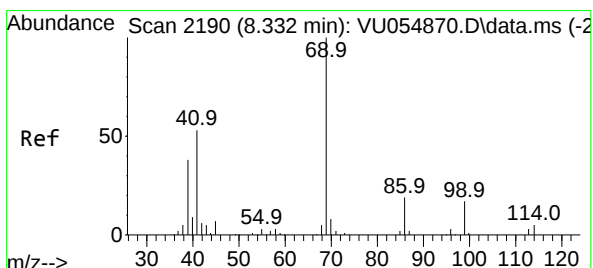
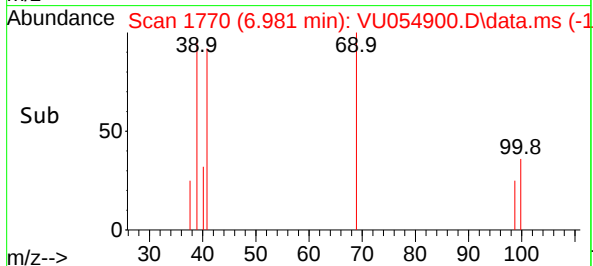
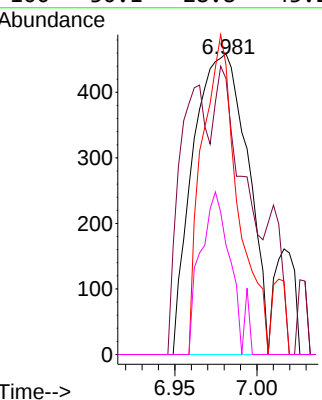
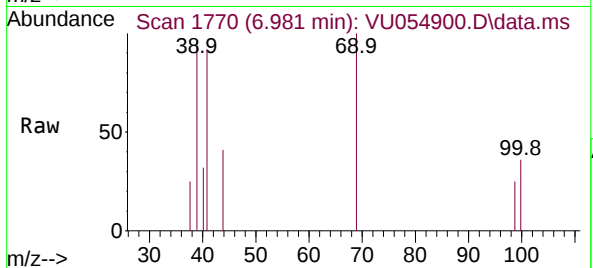
Ion Ratio Lower Upper

69 100

41 30.8 0.0 193.0

39 69.8 50.4 75.6

100 30.1 28.8 43.2



#48

Ethyl methacrylate

Concen: 0.237 ug/l

RT: 8.335 min Scan# 2191

Delta R.T. 0.003 min

Lab File: VU054900.D

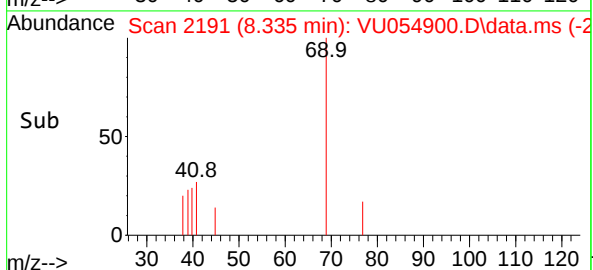
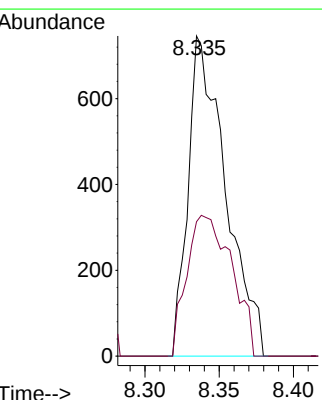
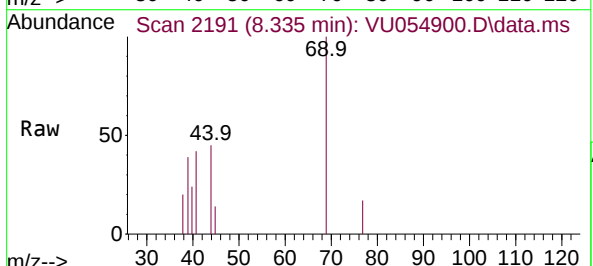
Acq: 27 Jul 2023 17:42

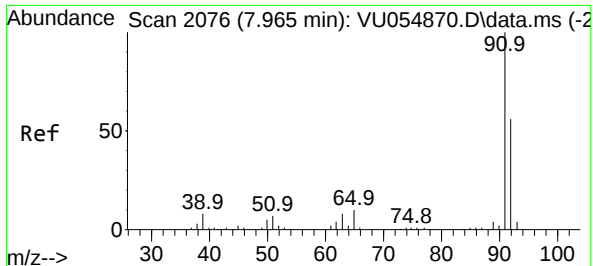
Tgt Ion: 69 Resp: 1311

Ion Ratio Lower Upper

69 100

41 52.6 28.8 86.5





#49

Toluene

Concen: 0.233 ug/l

RT: 7.971 min Scan# 2076

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

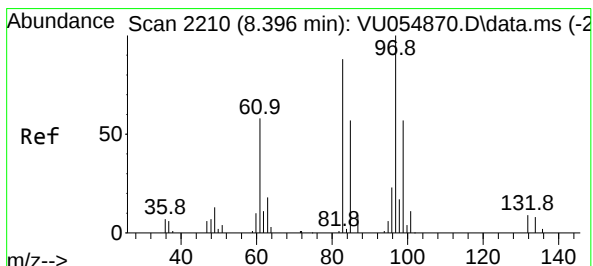
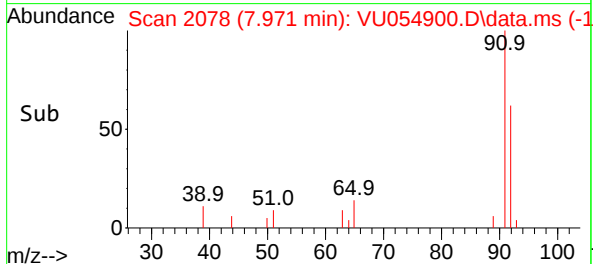
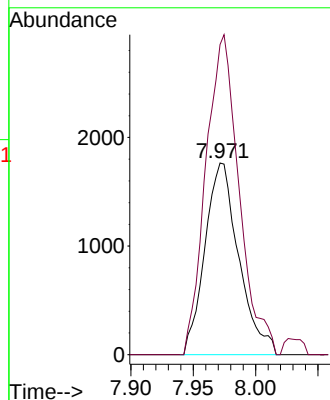
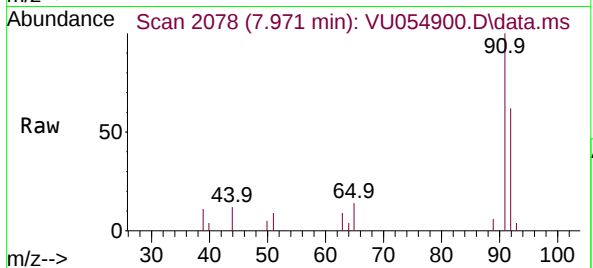
MDL-WATER-03-QT3-2023

Tgt Ion: 92 Resp: 3341

Ion Ratio Lower Upper

92 100

91 164.0 142.9 214.3



#52

1,1,2-Trichloroethane

Concen: 0.216 ug/l

RT: 8.396 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Tgt Ion: 97 Resp: 1021

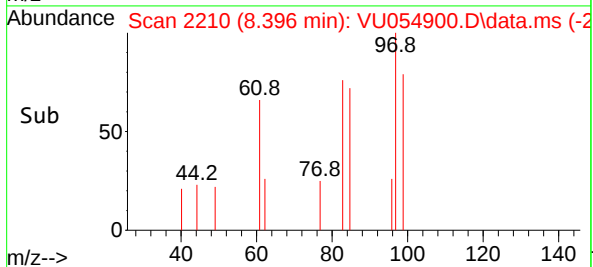
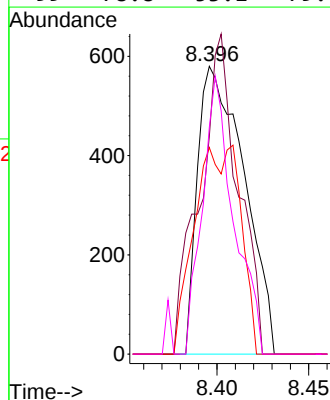
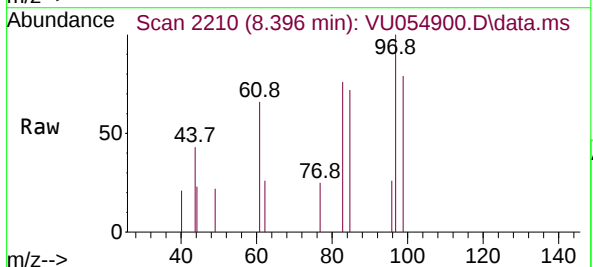
Ion Ratio Lower Upper

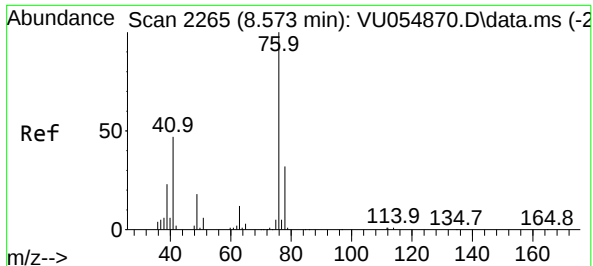
97 100

83 75.5 77.4 116.2#

85 71.7 47.8 71.8

99 78.8 53.1 79.7





#53

1,3-Dichloropropane

Concen: 0.229 ug/l

RT: 8.579 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

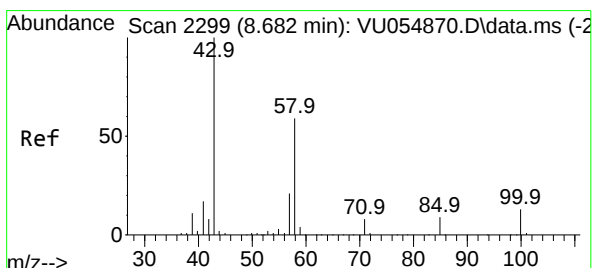
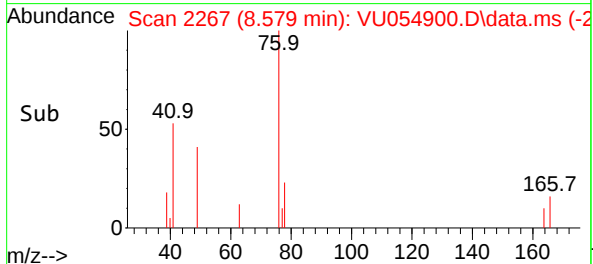
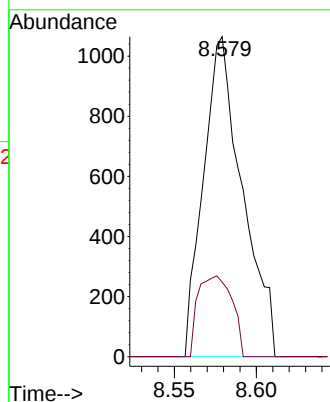
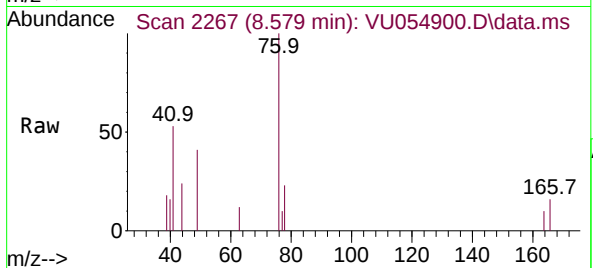
MDL-WATER-03-QT3-2023

Tgt Ion: 76 Resp: 1758

Ion Ratio Lower Upper

76 100

78 22.0 24.6 36.8#



#54

2-Hexanone

Concen: 0.871 ug/l

RT: 8.698 min Scan# 2304

Delta R.T. 0.016 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

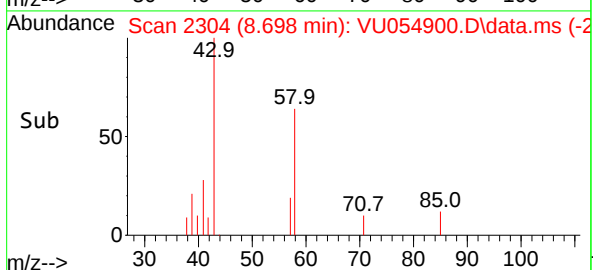
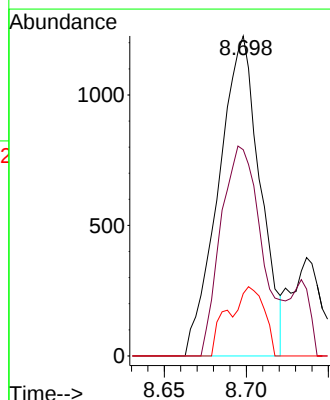
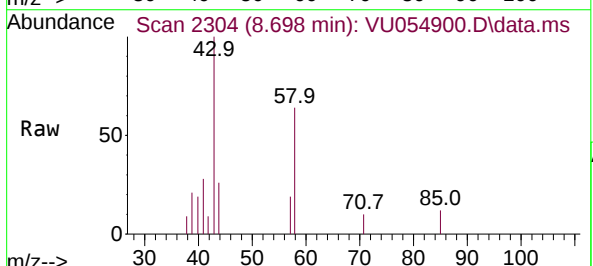
Tgt Ion: 43 Resp: 2158

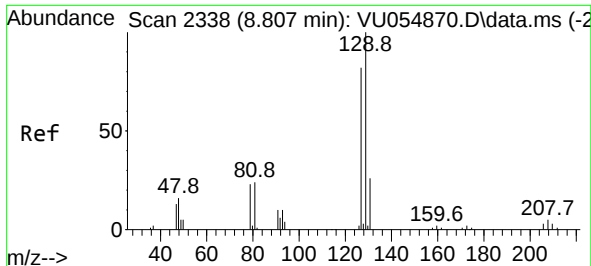
Ion Ratio Lower Upper

43 100

58 65.8 38.9 78.9

57 18.6 0.0 38.7

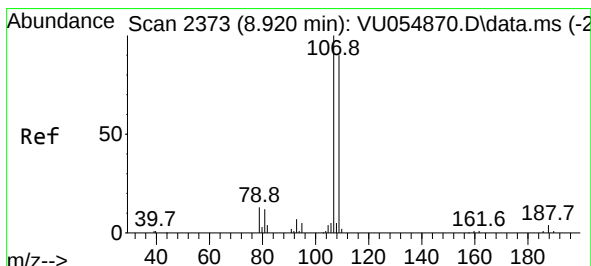
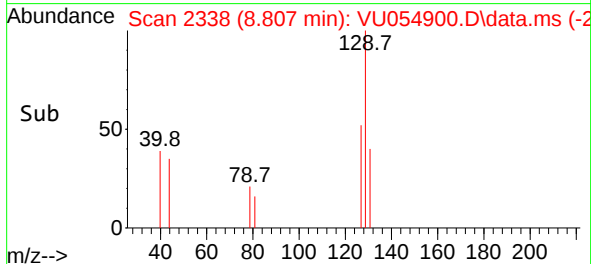
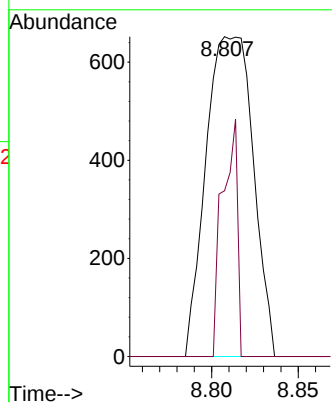
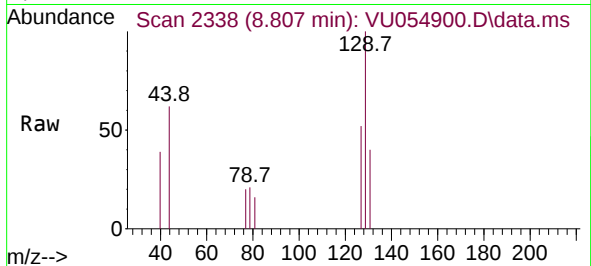




#55
Dibromochloromethane
Concen: 0.228 ug/l
RT: 8.807 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

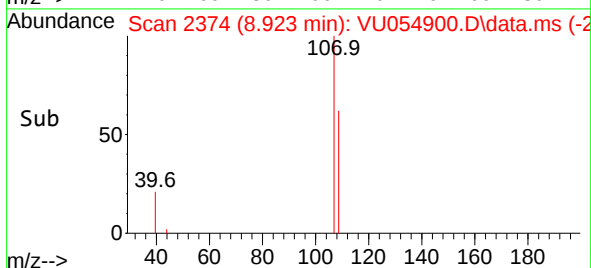
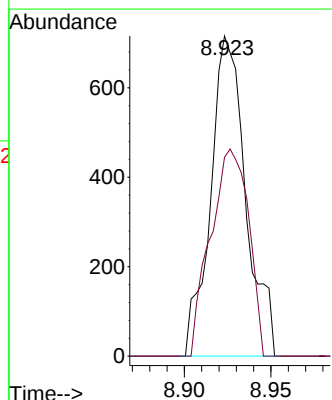
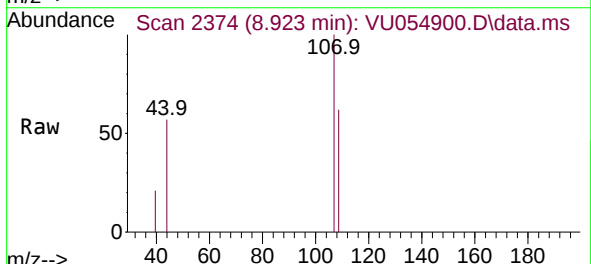
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

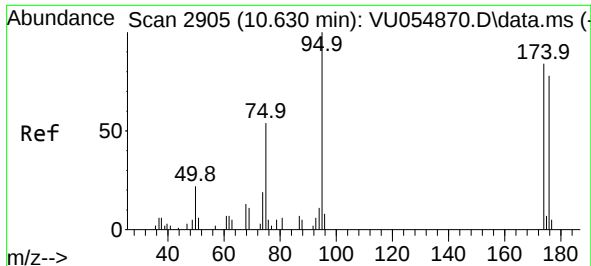
Tgt Ion:129 Resp: 1237
Ion Ratio Lower Upper
129 100
127 23.8 61.4 92.0#



#56
1,2-Dibromoethane
Concen: 0.253 ug/l
RT: 8.923 min Scan# 2374
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:107 Resp: 1015
Ion Ratio Lower Upper
107 100
109 70.0 0.0 185.4





#57

4-Bromofluorobenzene

Concen: 1.016 ug/l

RT: 10.634 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

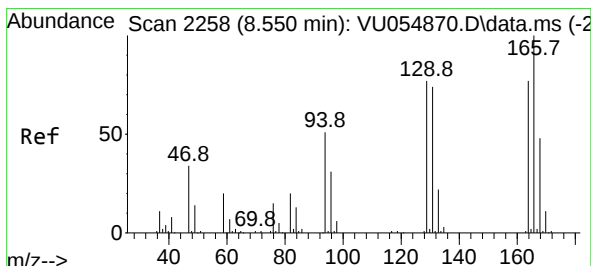
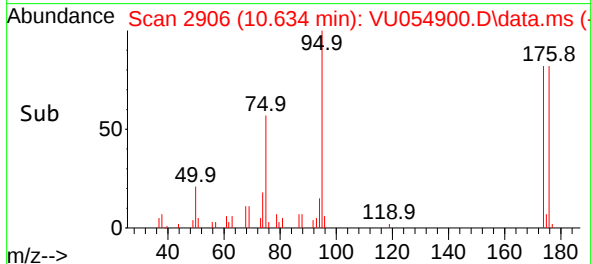
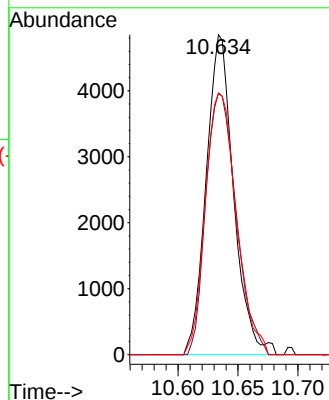
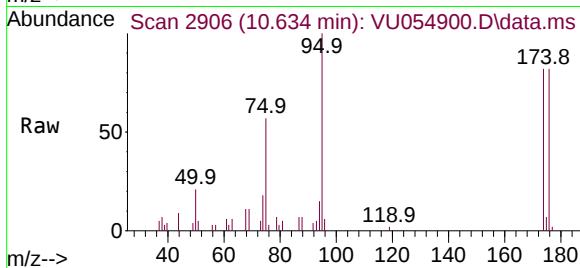
Tgt Ion: 95 Resp: 7698

Ion Ratio Lower Upper

95 100

174 90.6 79.3 118.9

176 92.4 71.5 107.3



#58

Tetrachloroethene

Concen: 0.266 ug/l

RT: 8.557 min Scan# 2260

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Tgt Ion: 164 Resp: 1407

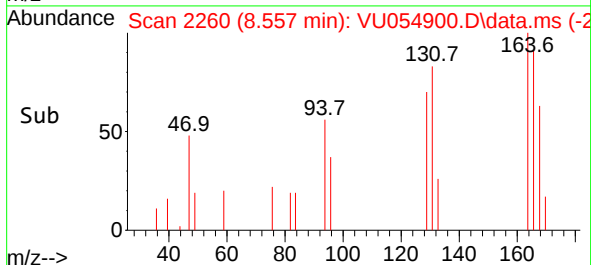
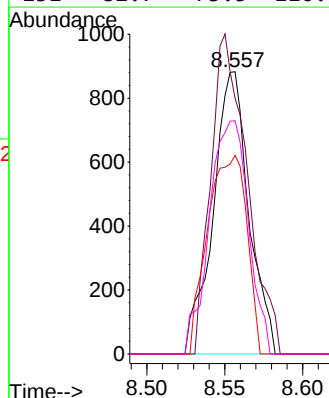
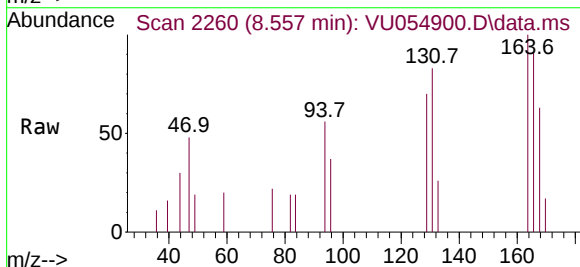
Ion Ratio Lower Upper

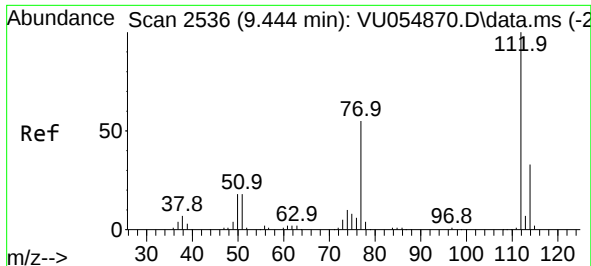
164 100

166 90.6 100.4 150.6#

129 70.3 71.9 107.9#

131 82.7 73.5 110.3





#59

Chlorobenzene

Concen: 0.217 ug/l

RT: 9.450 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

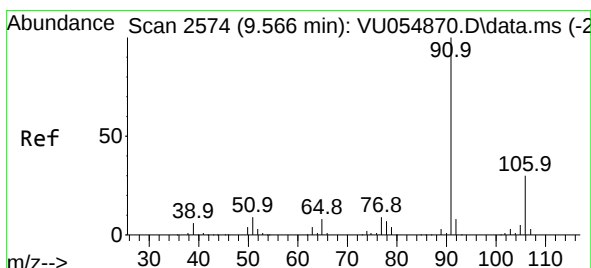
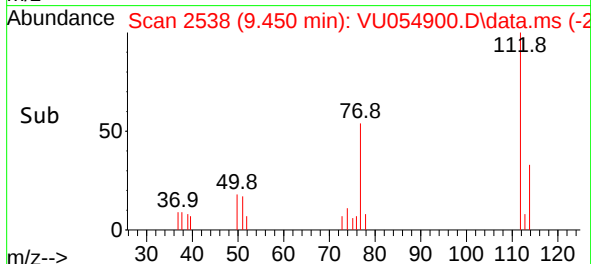
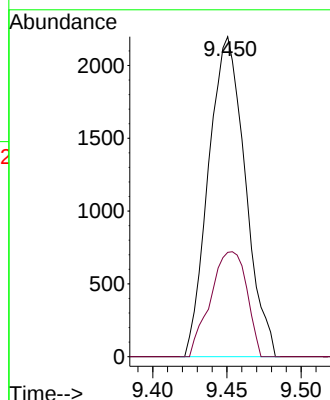
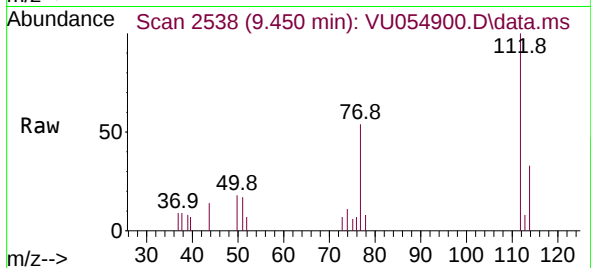
MDL-WATER-03-QT3-2023

Tgt Ion:112 Resp: 3767

Ion Ratio Lower Upper

112 100

114 32.6 25.0 37.6



#63

Ethyl Benzene

Concen: 0.220 ug/l

RT: 9.569 min Scan# 2575

Delta R.T. 0.003 min

Lab File: VU054900.D

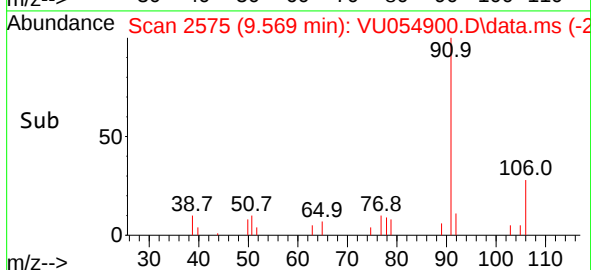
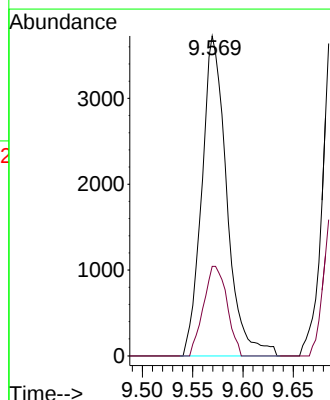
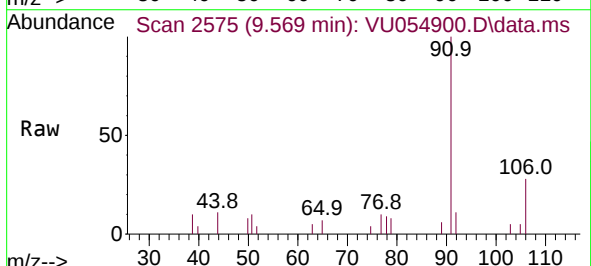
Acq: 27 Jul 2023 17:42

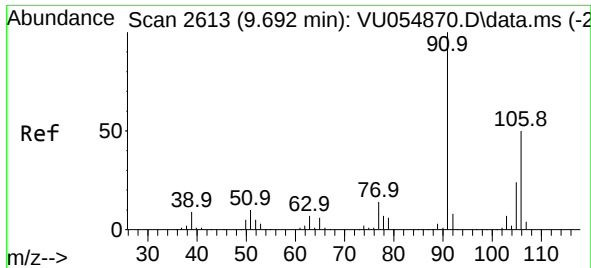
Tgt Ion: 91 Resp: 6430

Ion Ratio Lower Upper

91 100

106 28.0 24.2 36.2

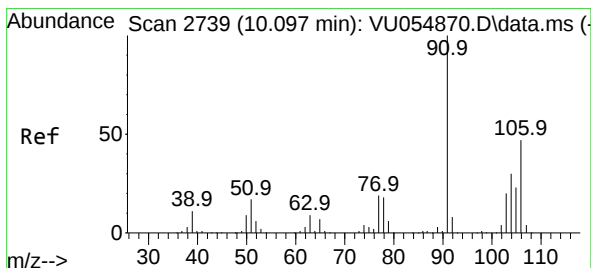
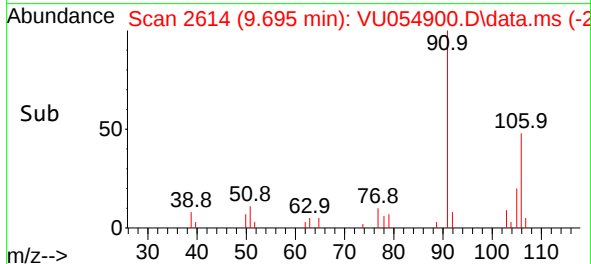
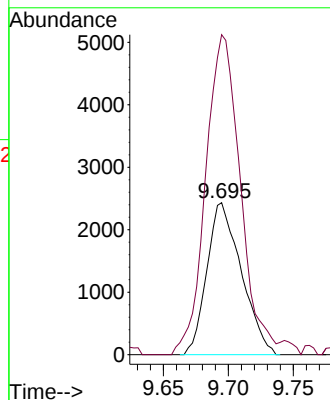
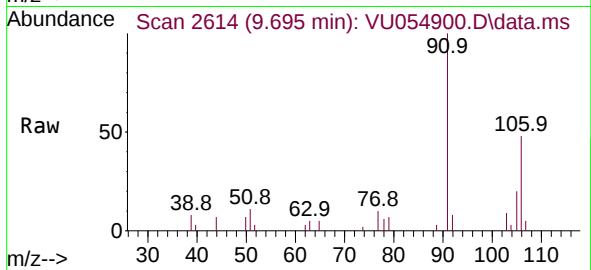




#64
m/p-Xylenes
Concen: 0.410 ug/l
RT: 9.695 min Scan# 2614
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

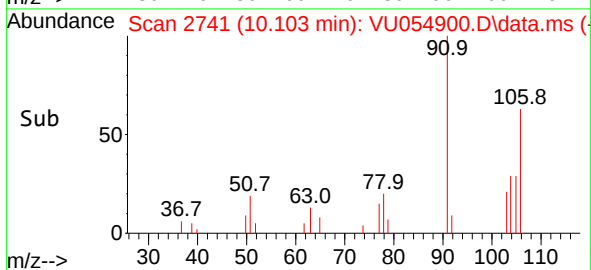
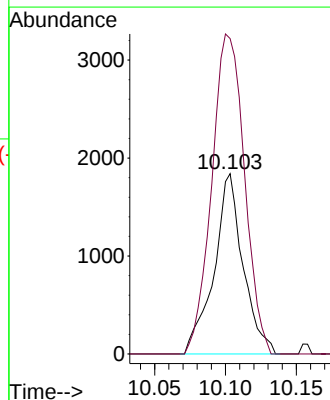
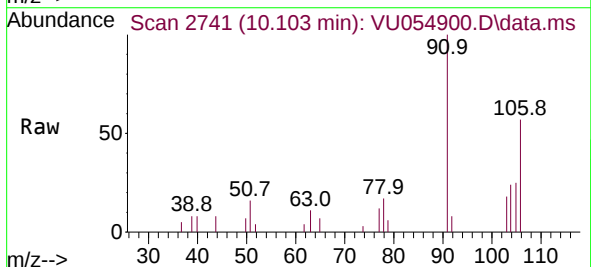
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

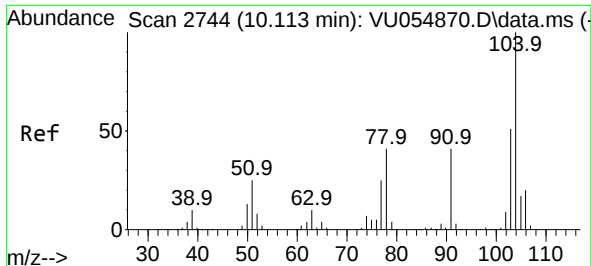
Tgt Ion:106 Resp: 4481
Ion Ratio Lower Upper
106 100
91 212.5 158.8 238.2



#65
o-Xylene
Concen: 0.234 ug/l
RT: 10.103 min Scan# 2741
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:106 Resp: 2622
Ion Ratio Lower Upper
106 100
91 200.3 108.9 326.8

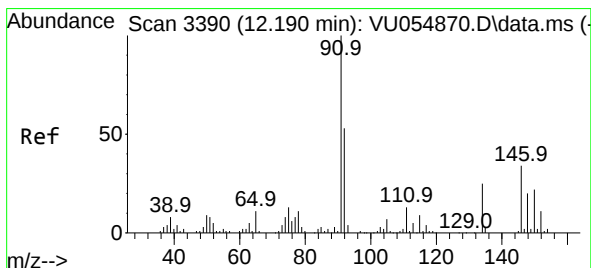
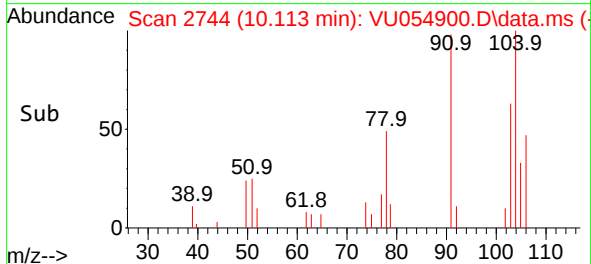
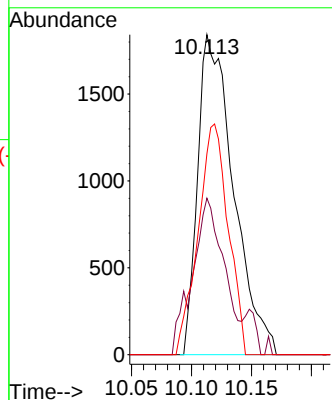
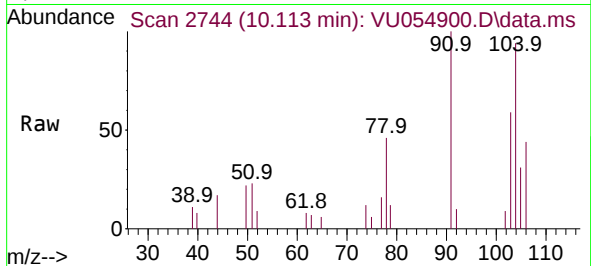




#66
Styrene
Concen: 0.213 ug/l
RT: 10.113 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

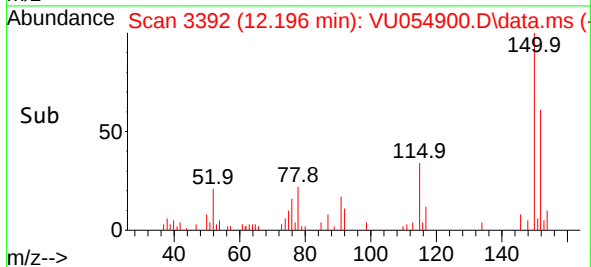
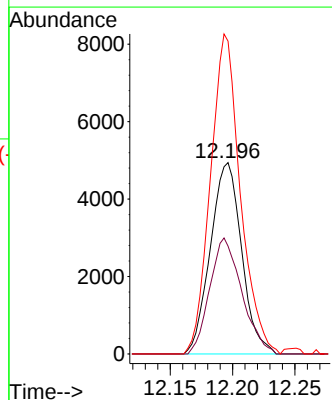
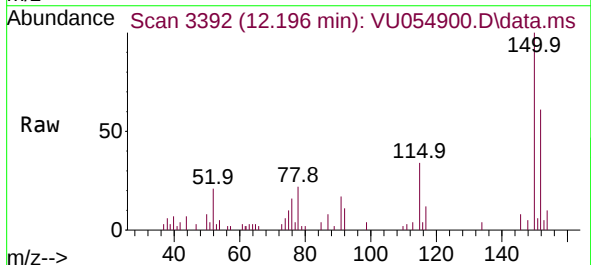
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

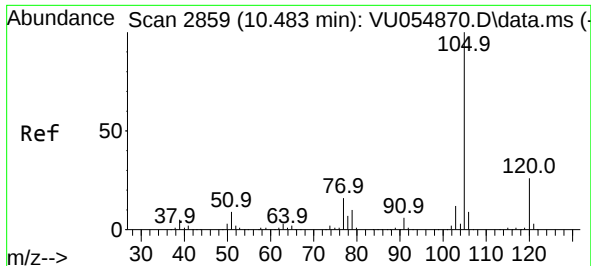
Tgt Ion:104 Resp: 3825
Ion Ratio Lower Upper
104 100
78 43.6 37.5 56.3
103 60.6 45.2 67.8



#68
1,2-Dichlorobenzene-d4
Concen: 1.007 ug/l
RT: 12.196 min Scan# 3392
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:152 Resp: 8618
Ion Ratio Lower Upper
152 100
115 62.1 0.0 234.8
150 159.9 0.0 598.2

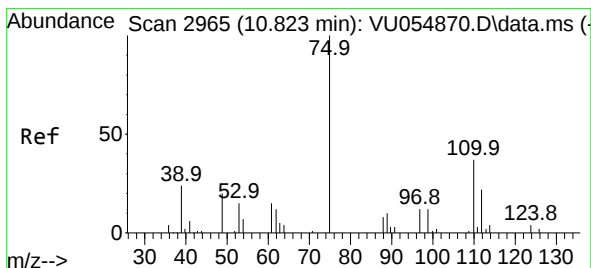
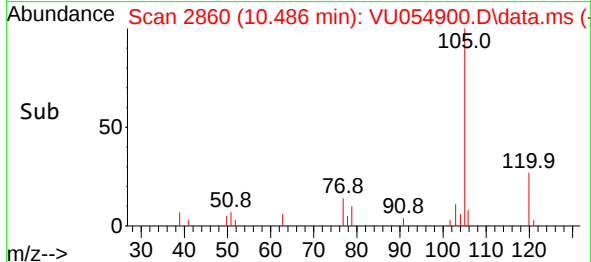
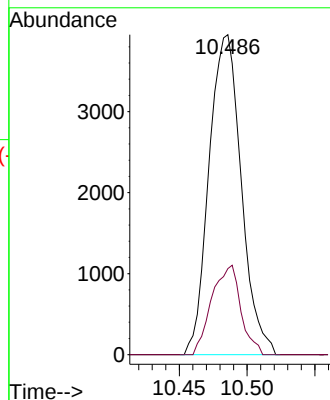
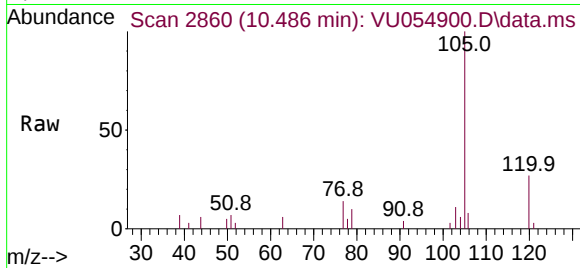




#69
Isopropylbenzene
Concen: 0.217 ug/l
RT: 10.486 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

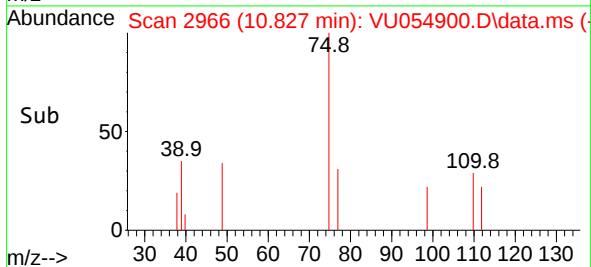
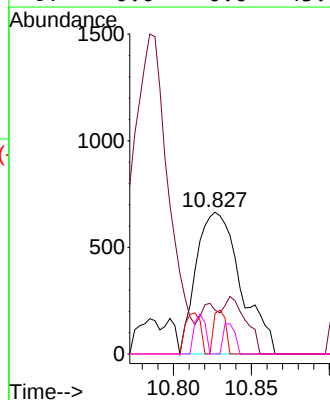
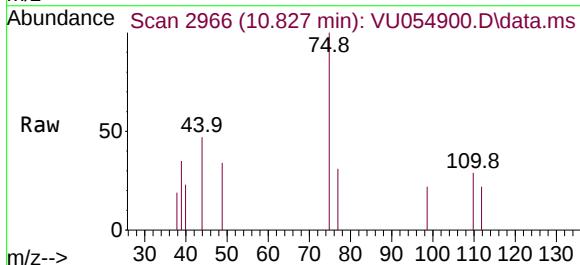
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

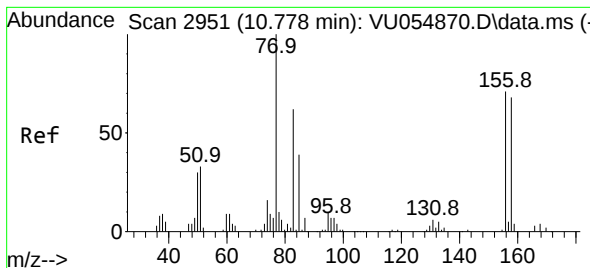
Tgt Ion:105 Resp: 6524
Ion Ratio Lower Upper
105 100
120 25.2 12.6 37.6



#71
1,2,3-Trichloropropane
Concen: 0.317 ug/l
RT: 10.827 min Scan# 2966
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 75 Resp: 1324
Ion Ratio Lower Upper
75 100
77 15.2 0.0 0.0#
110 8.2 0.0 80.8
97 0.0 0.0 43.4





#72

Bromobenzene

Concen: 0.220 ug/l

RT: 10.788 min Scan# 2951

Delta R.T. 0.010 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

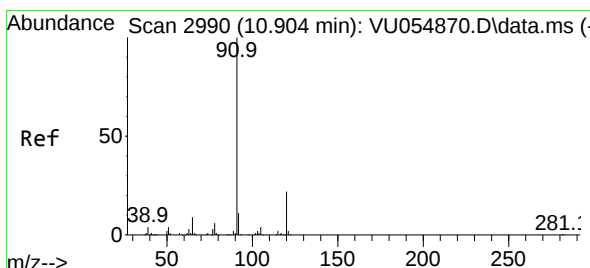
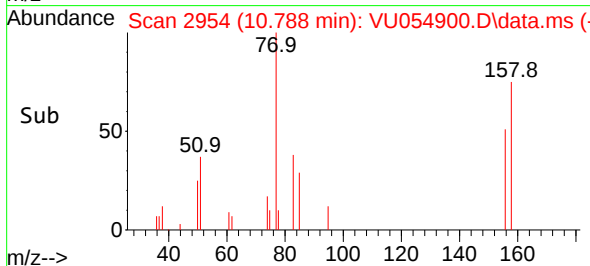
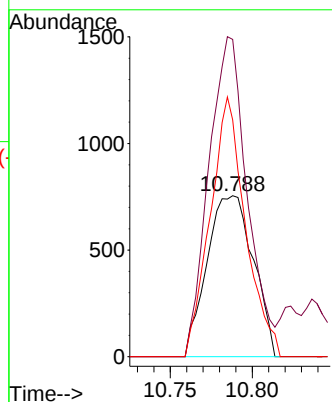
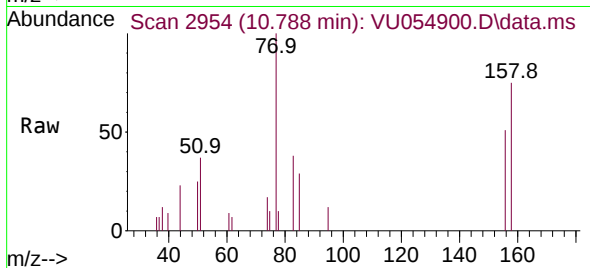
Tgt Ion:156 Resp: 1478

Ion Ratio Lower Upper

156 100

77 165.4 0.0 293.2

158 123.1 0.0 189.8



#73

n-propylbenzene

Concen: 0.202 ug/l

RT: 10.907 min Scan# 2991

Delta R.T. 0.003 min

Lab File: VU054900.D

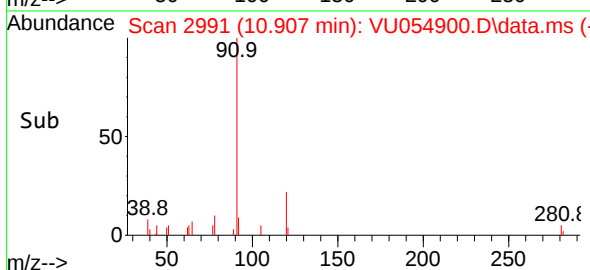
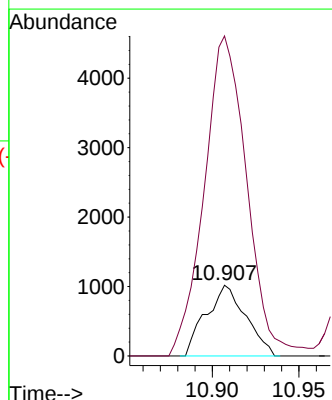
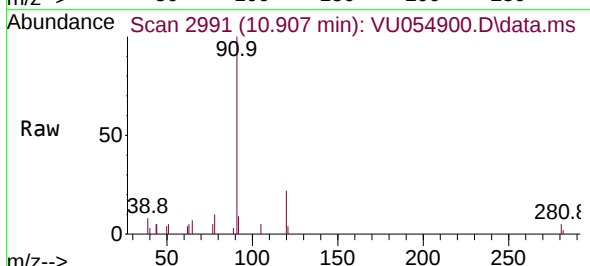
Acq: 27 Jul 2023 17:42

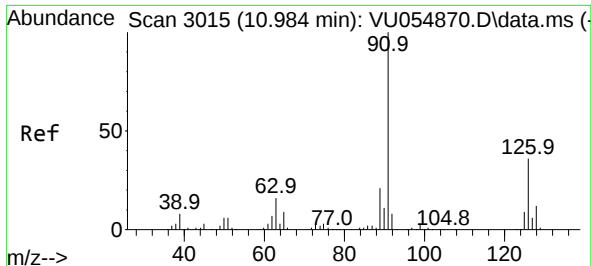
Tgt Ion:120 Resp: 1631

Ion Ratio Lower Upper

120 100

91 482.7 361.8 542.6

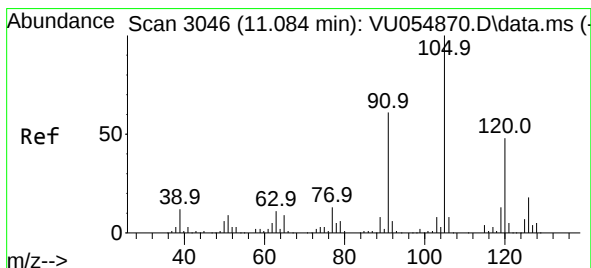
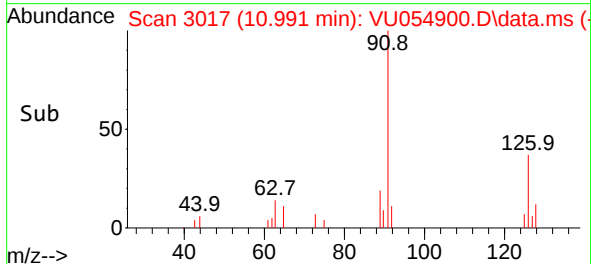
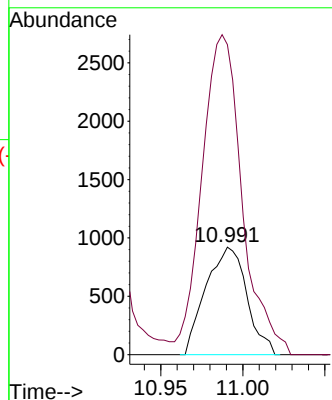
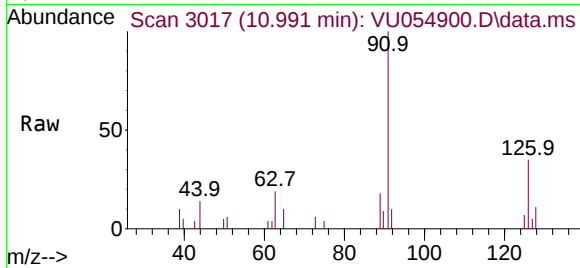




#74
2-Chlorotoluene
Concen: 0.229 ug/l
RT: 10.991 min Scan# 3015
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

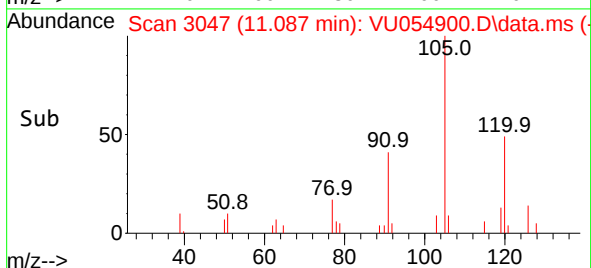
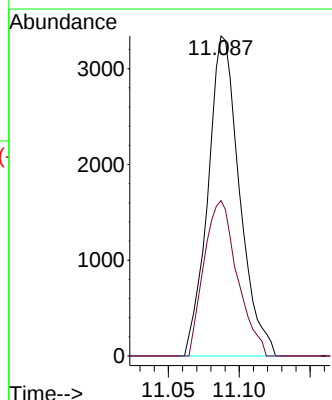
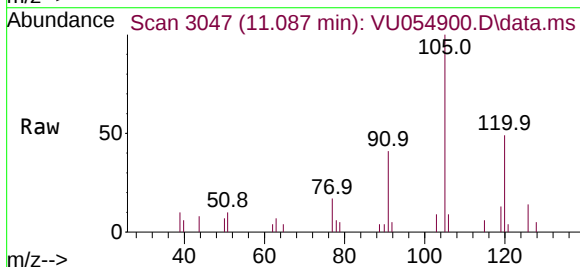
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

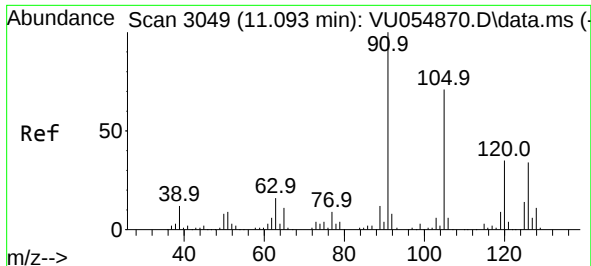
Tgt Ion:126 Resp: 1598
Ion Ratio Lower Upper
126 100
91 291.1 0.0 561.4



#75
1,3,5-Trimethylbenzene
Concen: 0.212 ug/l
RT: 11.087 min Scan# 3047
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:105 Resp: 5179
Ion Ratio Lower Upper
105 100
120 51.0 39.0 58.4

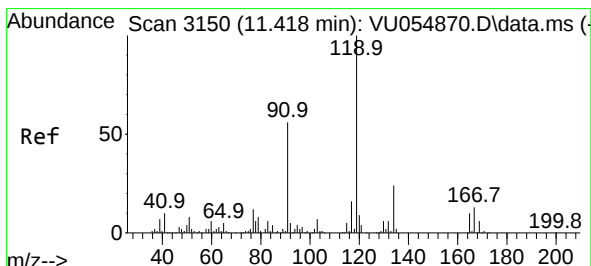
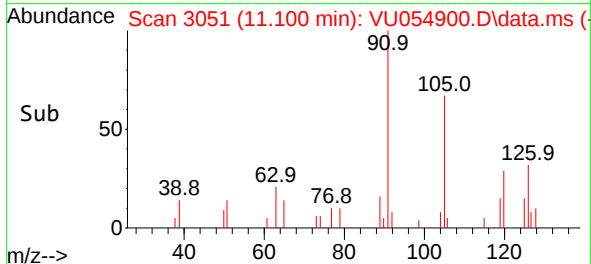
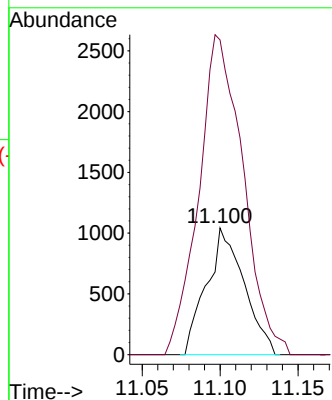
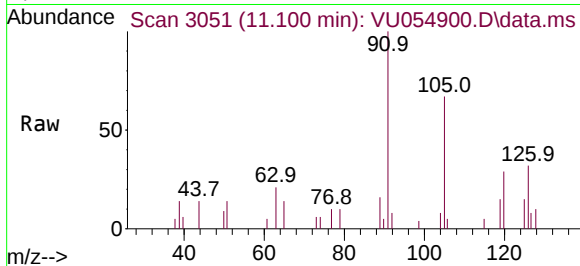




#76
4-Chlorotoluene
Concen: 0.241 ug/l
RT: 11.100 min Scan# 3049
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

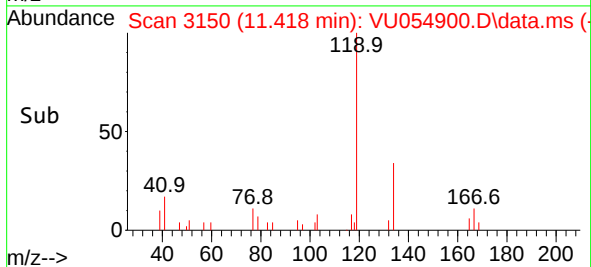
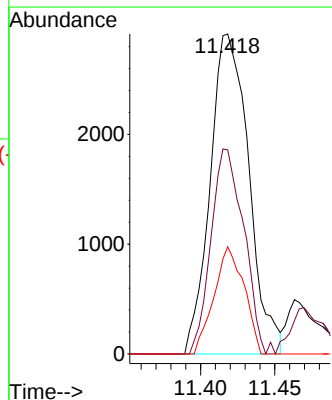
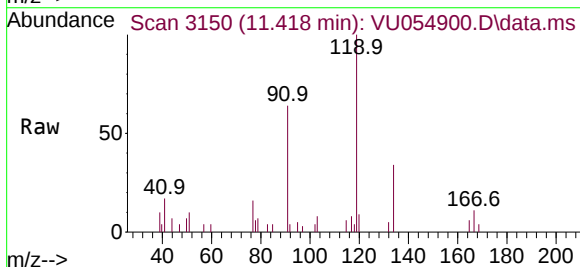
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

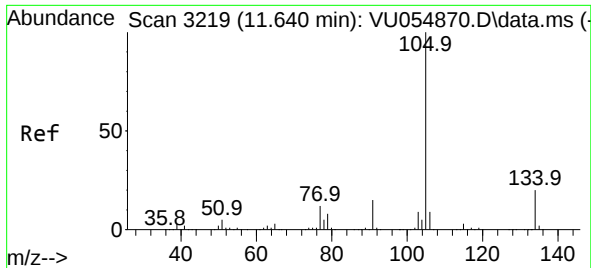
Tgt Ion:126 Resp: 1749
Ion Ratio Lower Upper
126 100
91 296.9 0.0 623.4



#77
tert-Butylbenzene
Concen: 0.208 ug/l
RT: 11.418 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:119 Resp: 5275
Ion Ratio Lower Upper
119 100
91 54.1 27.7 83.1
134 26.1 18.6 27.8

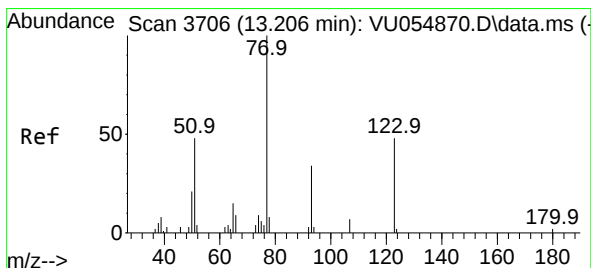
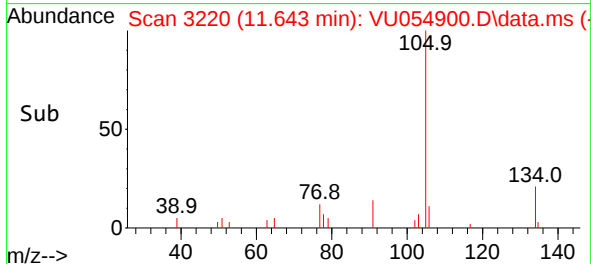
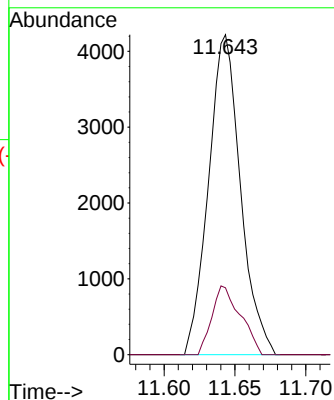
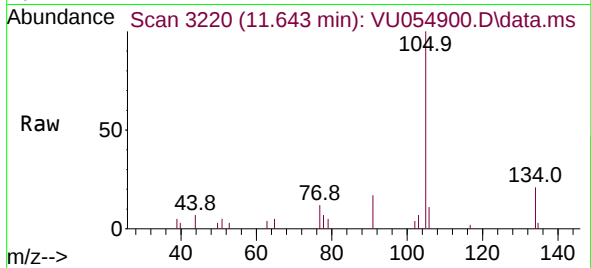




#79
 sec-Butylbenzene
 Concen: 0.201 ug/l
 RT: 11.643 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU054900.D
 Acq: 27 Jul 2023 17:42

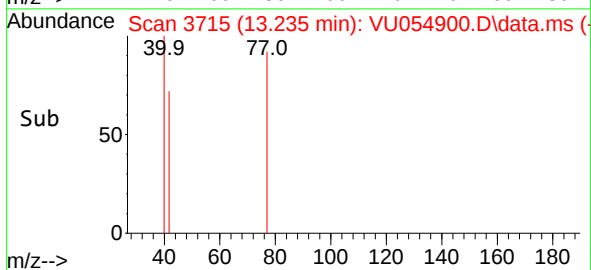
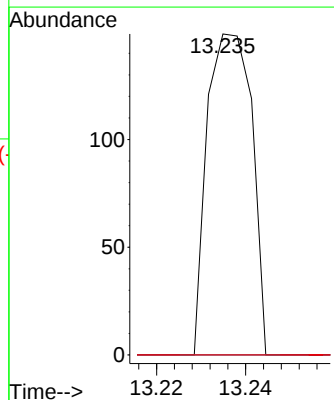
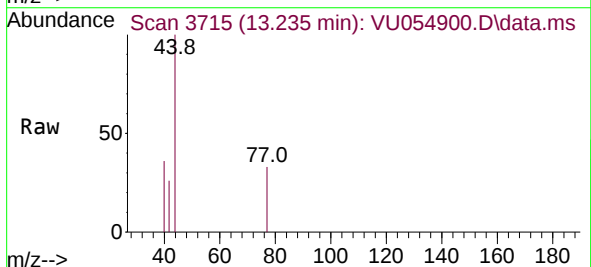
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2023

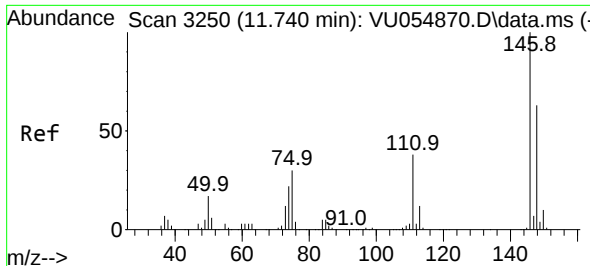
Tgt Ion:105 Resp: 6618
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.7 23.5



#80
 Nitrobenzene
 Concen: 0.675 ug/l
 RT: 13.235 min Scan# 3715
 Delta R.T. 0.029 min
 Lab File: VU054900.D
 Acq: 27 Jul 2023 17:42

Tgt Ion: 77 Resp: 104
 Ion Ratio Lower Upper
 77 100
 123 0.0 20.2 71.8#
 65 0.0 11.7 14.9#





#82

1,3-Dichlorobenzene

Concen: 0.232 ug/l

RT: 11.746 min Scan# 31

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

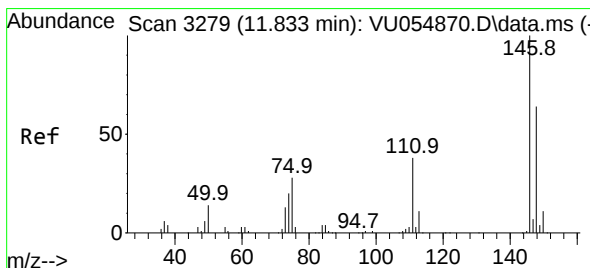
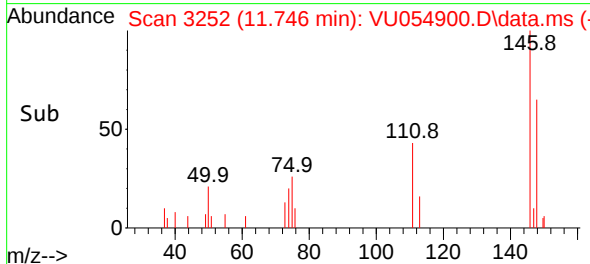
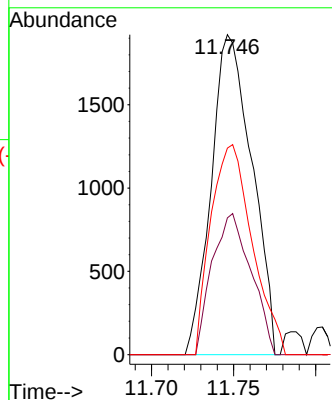
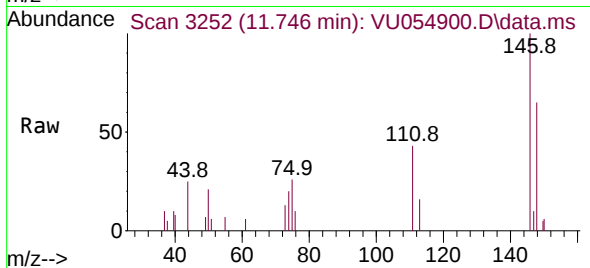
Tgt Ion:146 Resp: 3307

Ion Ratio Lower Upper

146 100

111 42.2 30.5 45.7

148 66.9 51.0 76.6



#83

1,4-Dichlorobenzene

Concen: 0.251 ug/l

RT: 11.839 min Scan# 3281

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

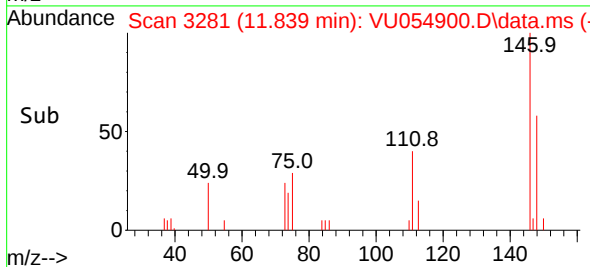
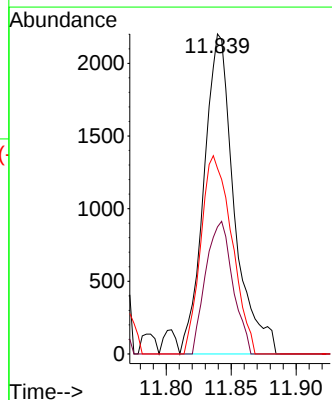
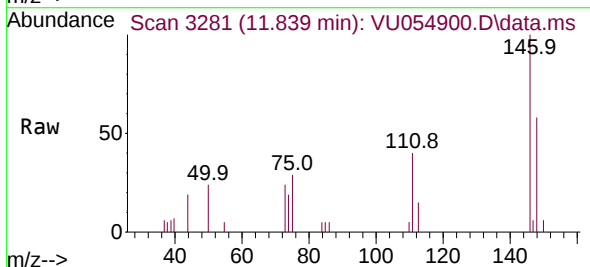
Tgt Ion:146 Resp: 3572

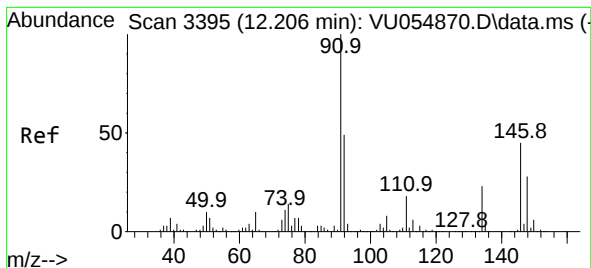
Ion Ratio Lower Upper

146 100

111 37.0 29.5 44.3

148 63.2 51.2 76.8





#84

n-Butylbenzene

Concen: 0.237 ug/l

RT: 12.209 min Scan# 3395

Delta R.T. 0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

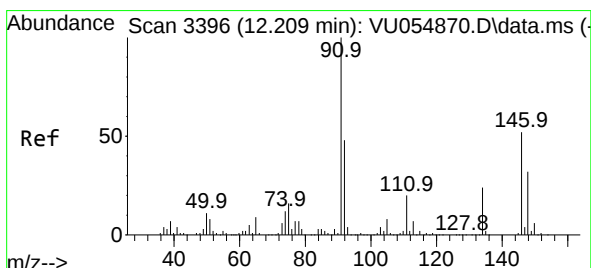
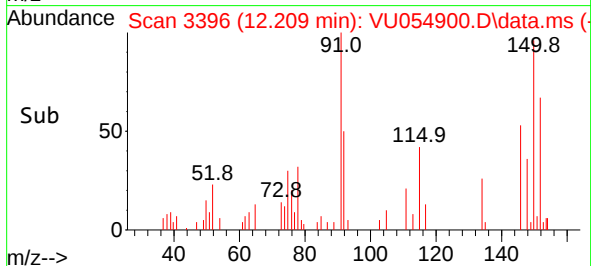
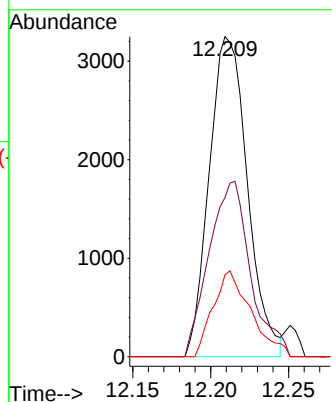
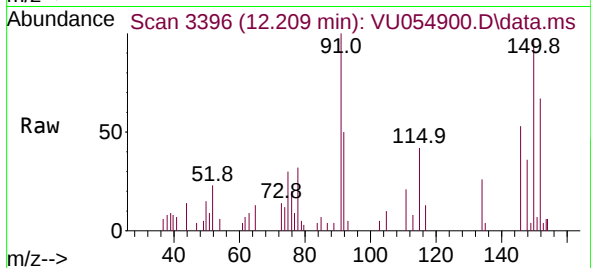
Tgt Ion: 91 Resp: 5548

Ion Ratio Lower Upper

91 100

92 59.4 39.8 59.8

134 26.5 20.2 30.4



#85

1,2-Dichlorobenzene

Concen: 0.244 ug/l

RT: 12.216 min Scan# 3398

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

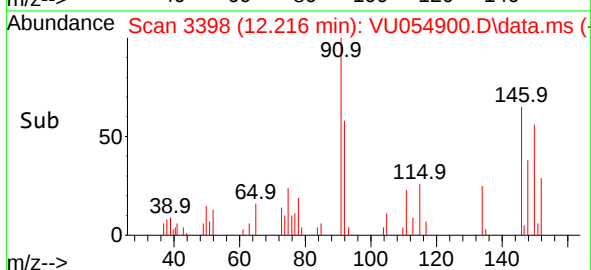
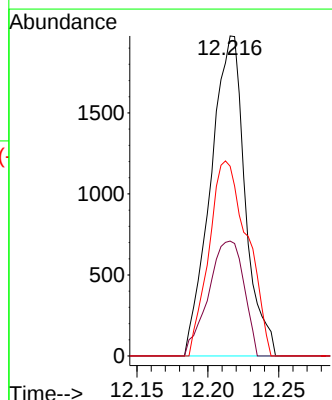
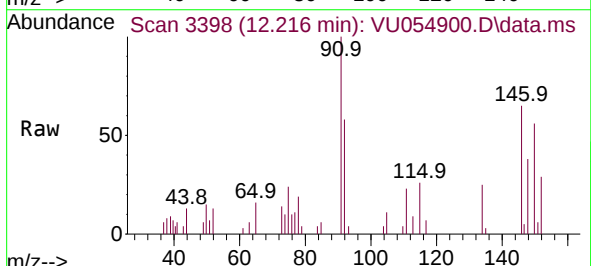
Tgt Ion:146 Resp: 3345

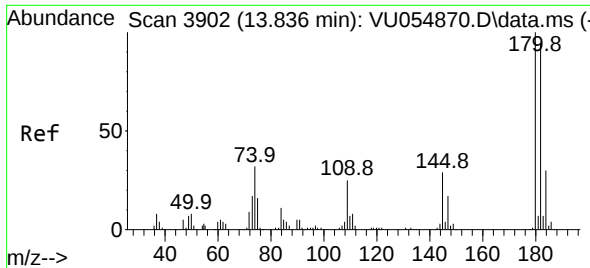
Ion Ratio Lower Upper

146 100

111 36.9 19.8 59.4

148 68.1 31.8 95.3

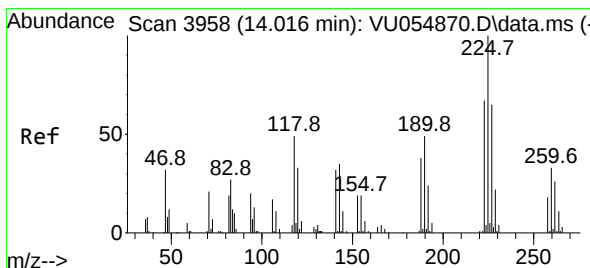
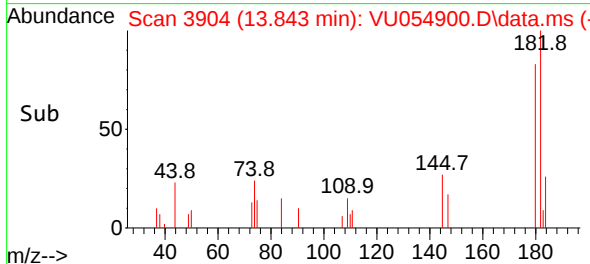
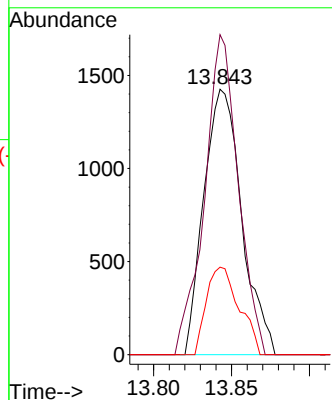
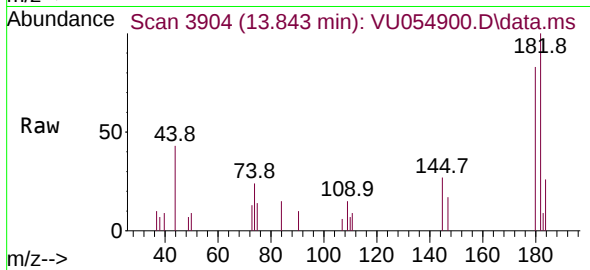




#87
1,2,4-Trichlorobenzene
Concen: 0.276 ug/l
RT: 13.843 min Scan# 3904
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

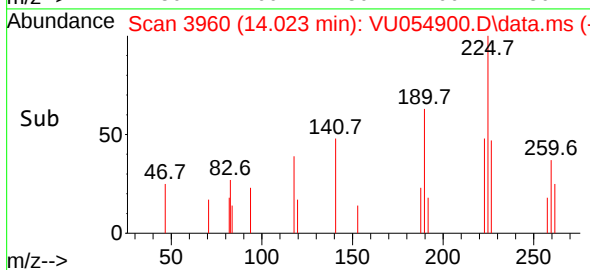
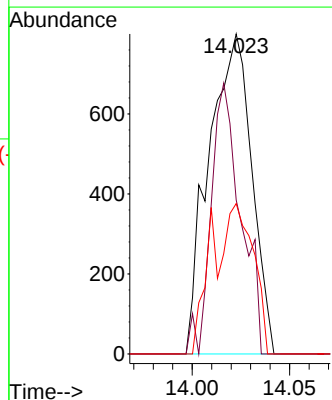
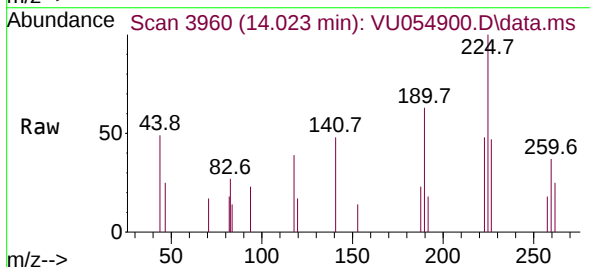
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

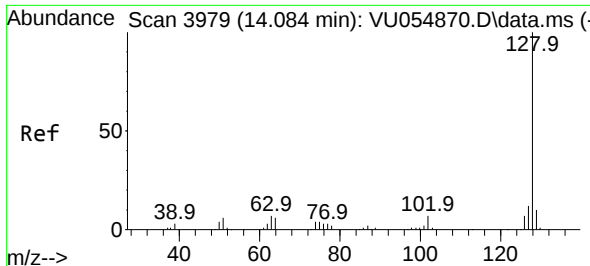
Tgt Ion:180 Resp: 2410
Ion Ratio Lower Upper
180 100
182 106.8 77.0 115.6
145 28.4 23.4 35.0



#88
Hexachlorobutadiene
Concen: 0.263 ug/l
RT: 14.023 min Scan# 3960
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:225 Resp: 1222
Ion Ratio Lower Upper
225 100
223 58.7 50.6 76.0
227 31.7 50.7 76.1#

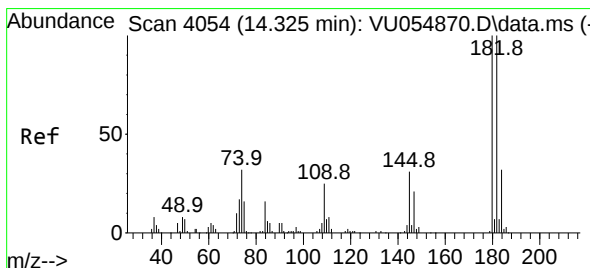
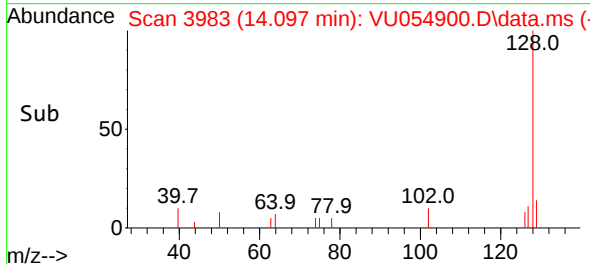
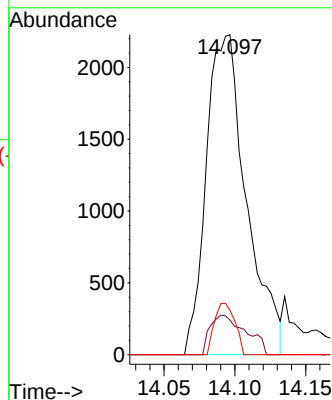
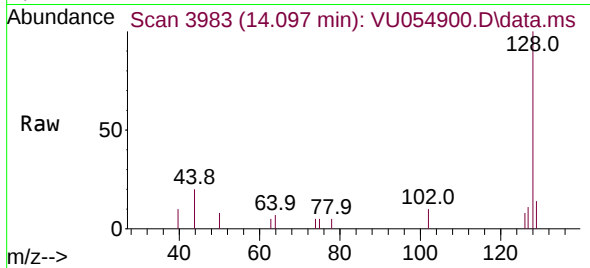




#89
Naphthalene
Concen: 0.325 ug/l
RT: 14.097 min Scan# 3979
Delta R.T. 0.013 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

Tgt Ion:128 Resp: 4388
Ion Ratio Lower Upper
128 100
127 11.0 10.6 15.8
129 8.2 8.7 13.1#



#90
1,2,3-Trichlorobenzene
Concen: 0.352 ug/l
RT: 14.335 min Scan# 4057
Delta R.T. 0.010 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:180 Resp: 2725
Ion Ratio Lower Upper
180 100
182 102.4 76.0 114.0
145 15.7 24.3 36.5#

