

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031822\
 Data File : VU047620.D
 Acq On : 18 Mar 2022 17:45
 Operator : SY/MD
 Sample : N1645-07 0.25PPB
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2022

Quant Time: Mar 19 05:56:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U031822DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Sat Mar 19 05:55:19 2022
 Response via : Initial Calibration

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

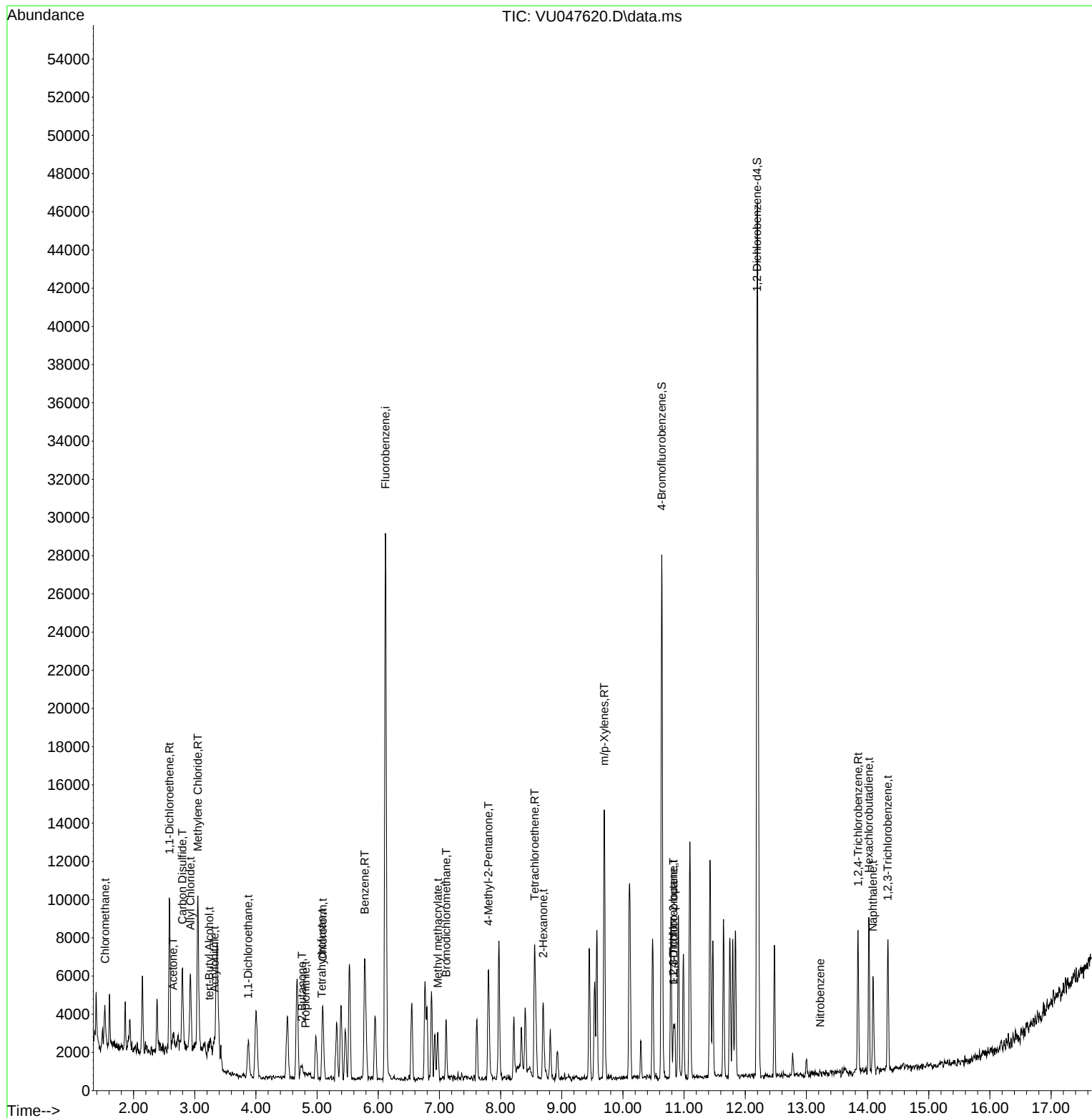
Internal Standards						
1) Fluorobenzene	6.118	96	28637	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.635	95	9056	0.848	ug/l	0.00
Spiked Amount 1.000			Recovery	=	85.000%	
68) 1,2-Dichlorobenzene-d4	12.195	152	12079	0.933	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.533	50	2062	0.204	ug/l	95
9) 1,1-Dichloroethene	2.587	96	1561	0.204	ug/l	80
11) Allyl Chloride	2.928	41	2182	0.227	ug/l	97
12) Acrylonitrile	3.324	53	712	0.421	ug/l	96
13) Acetone	2.645	43	1607	1.398	ug/l #	85
14) Carbon Disulfide	2.796	76	5015	0.207	ug/l	96
15) Methylene Chloride	3.050	84	3847	0.345	ug/l	90
17) 1,1-Dichloroethane	3.874	63	2815	0.206	ug/l #	82
18) 2-Butanone	4.755	43	1853	1.035	ug/l	77
24) tert-Butyl Alcohol	3.237	59	485	1.257	ug/l #	77
27) Chloroform	5.092	83	3446	0.233	ug/l	100
34) Propionitrile	4.812	54	187	0.386	ug/l #	66
35) Benzene	5.777	78	6256	0.201	ug/l	100
41) Tetrahydrofuran	5.076	42	408	0.359	ug/l #	43
44) Bromodichloromethane	7.111	83	2271	0.204	ug/l #	97
45) 4-Methyl-2-Pentanone	7.803	43	4425	0.922	ug/l	94
46) t-1,4-Dichloro-2-butene	10.825	75	1904	0.913	ug/l #	47
47) Methyl methacrylate	6.973	69	1260	0.324	ug/l	91
54) 2-Hexanone	8.697	43	3258	0.930	ug/l	93
58) Tetrachloroethene	8.558	164	1715	0.207	ug/l	85
64) m/p-Xylenes	9.697	106	4149	0.300	ug/l	98
71) 1,2,3-Trichloropropane	10.825	75	1904	0.271	ug/l	73
80) Nitrobenzene	13.224	77	271	0.746	ug/l #	42
87) 1,2,4-Trichlorobenzene	13.844	180	3021	0.214	ug/l	95
88) Hexachlorobutadiene	14.021	225	1742	0.206	ug/l	99
89) Naphthalene	14.089	128	4983	0.208	ug/l	95
90) 1,2,3-Trichlorobenzene	14.330	180	2905	0.219	ug/l #	93

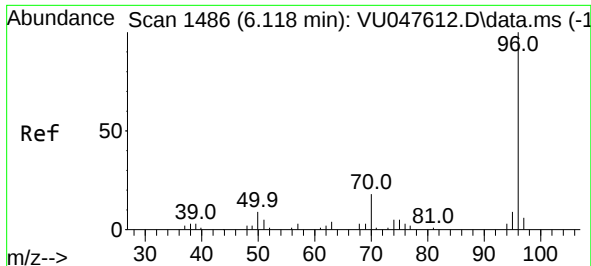
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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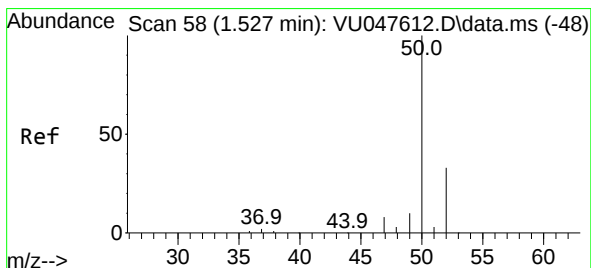
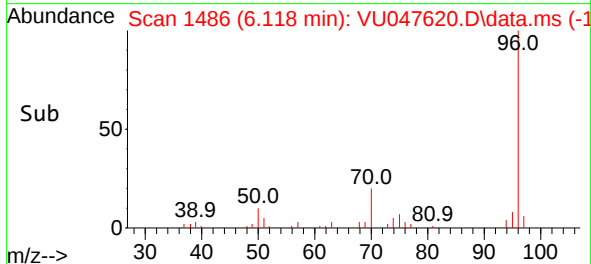
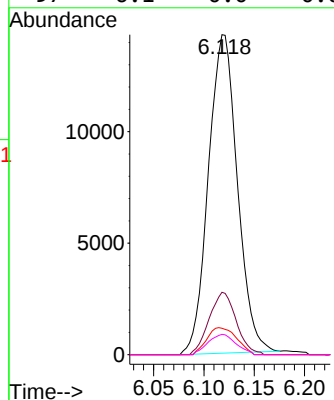
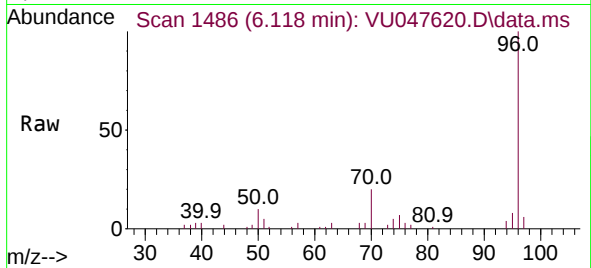




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.118 min Scan# 14
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

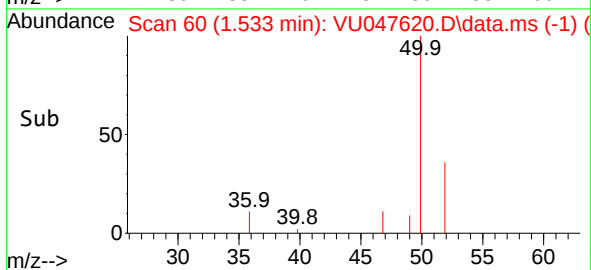
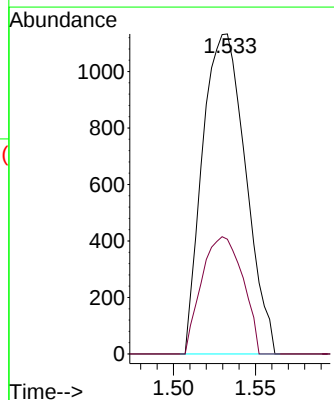
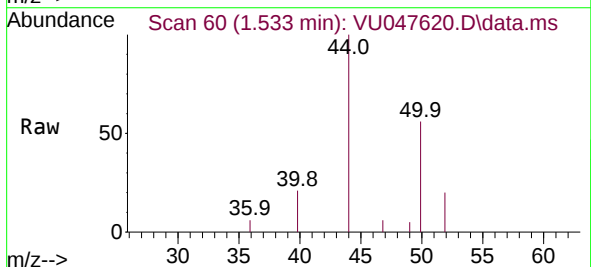
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2022

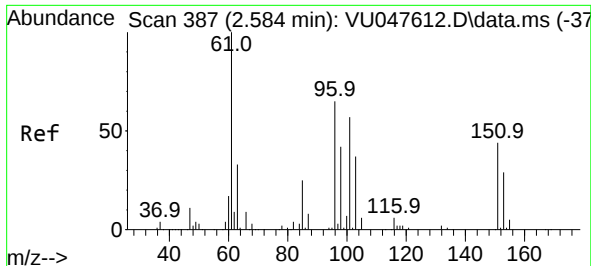
Tgt Ion: 96	Resp: 28637
Ion Ratio	Lower Upper
96 100	
70 18.3	16.8 25.2
95 8.7	7.3 10.9
97 6.1	0.0 0.0#



#3
Chloromethane
Concen: 0.204 ug/l
RT: 1.533 min Scan# 60
Delta R.T. 0.006 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion: 50	Resp: 2062
Ion Ratio	Lower Upper
50 100	
52 35.8	26.2 39.4

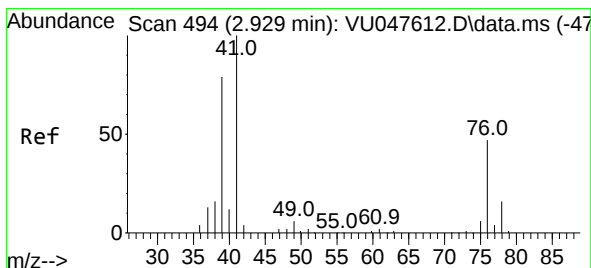
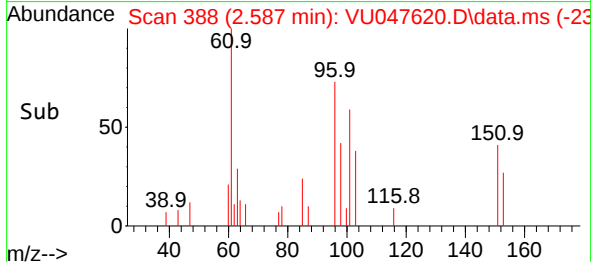
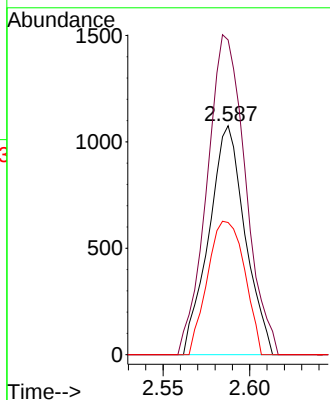
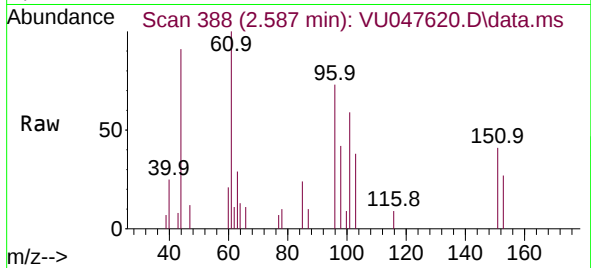




#9
1,1-Dichloroethene
Concen: 0.204 ug/l
RT: 2.587 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

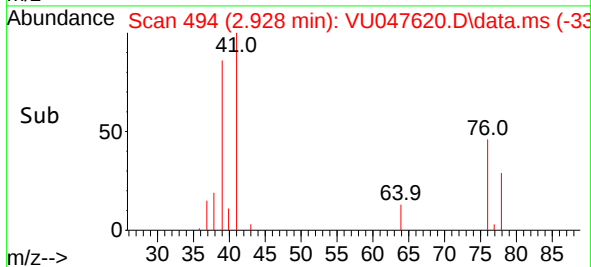
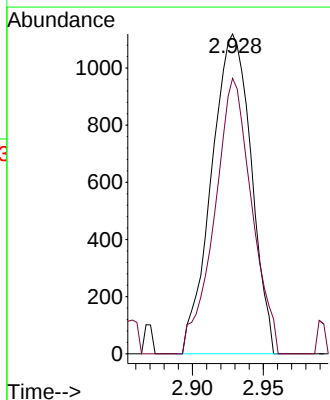
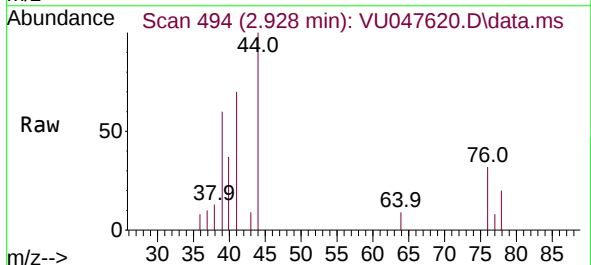
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2022

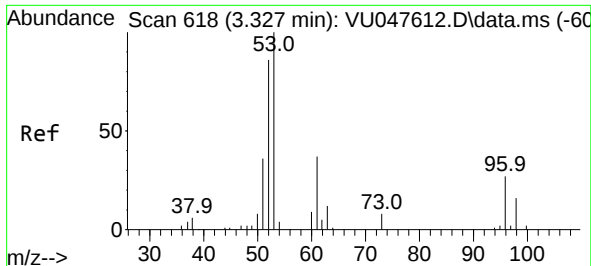
Tgt Ion: 96 Resp: 1561
Ion Ratio Lower Upper
96 100
61 137.5 0.0 514.2
98 57.7 0.0 126.4



#11
Allyl Chloride
Concen: 0.227 ug/l
RT: 2.928 min Scan# 494
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion: 41 Resp: 2182
Ion Ratio Lower Upper
41 100
39 80.8 62.4 93.6

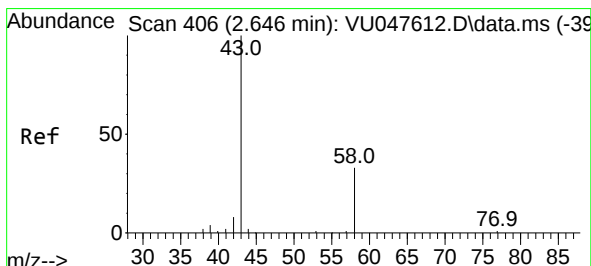
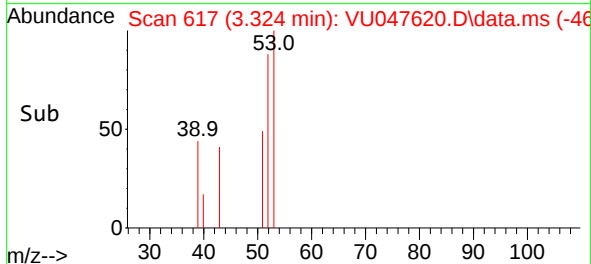
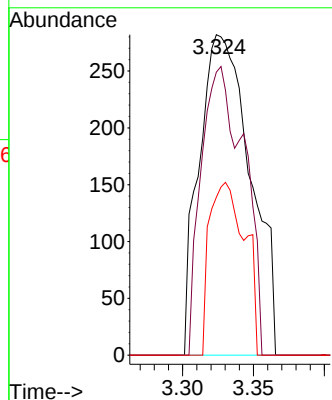
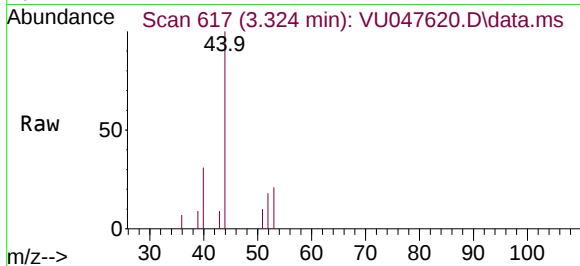




#12
Acrylonitrile
Concen: 0.421 ug/l
RT: 3.324 min Scan# 618
Delta R.T. -0.003 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

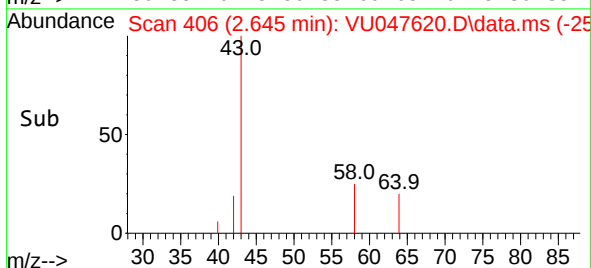
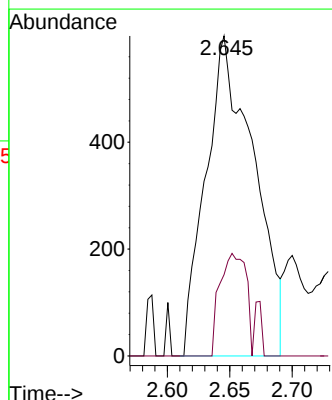
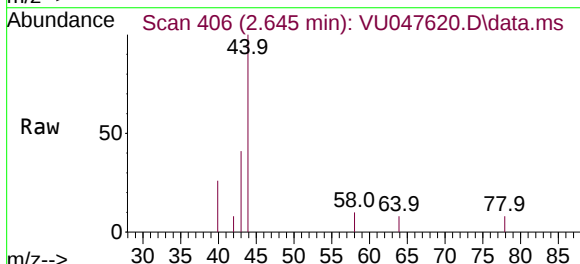
Instrument : MSVOA_U
ClientSampleId : LOD-MDL-WATER-01-QT1-2022

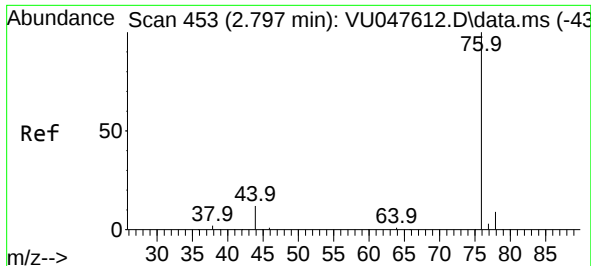
Tgt Ion: 53	Resp: 712	
Ion Ratio	Lower	Upper
53	100	
52	75.1	56.7 85.1
51	37.1	30.3 45.5



#13
Acetone
Concen: 1.398 ug/l
RT: 2.645 min Scan# 406
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion: 43	Resp: 1607		
Ion Ratio	Lower	Upper	
43 100			
58 25.4	27.1	40.7#	

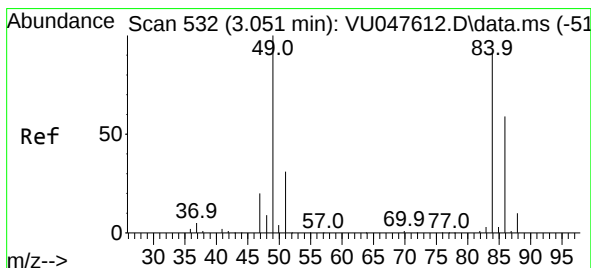
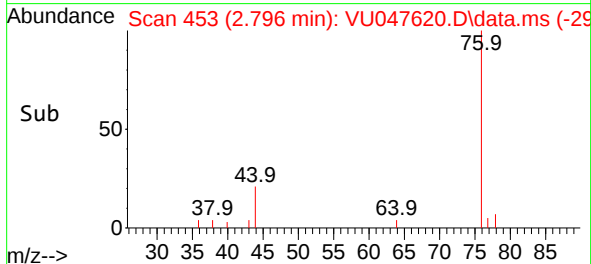
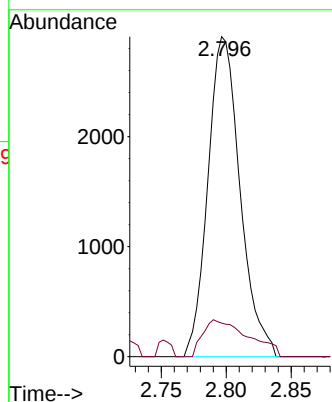
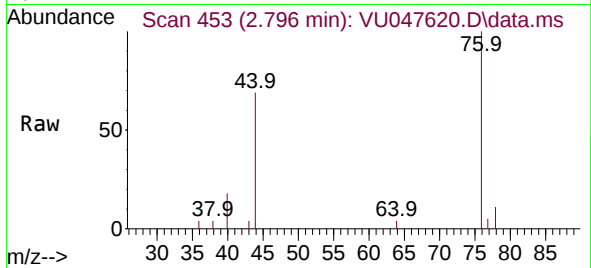




#14
Carbon Disulfide
Concen: 0.207 ug/l
RT: 2.796 min Scan# 41
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

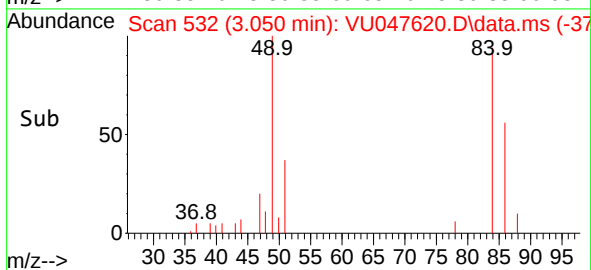
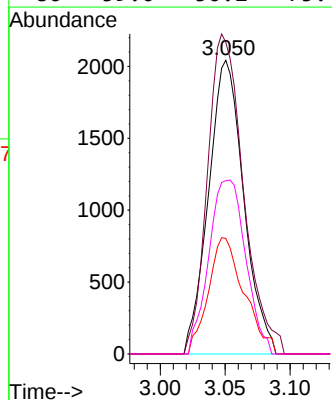
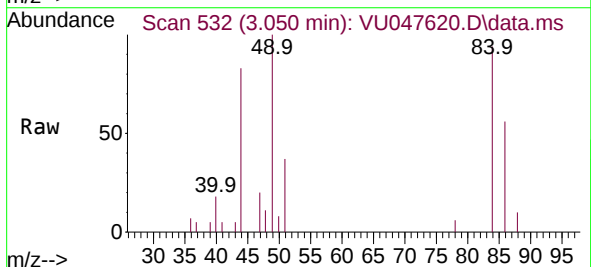
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2022

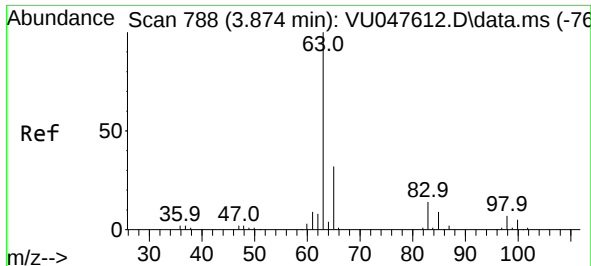
Tgt Ion: 76 Resp: 5015
Ion Ratio Lower Upper
76 100
78 10.5 7.1 10.7



#15
Methylene Chloride
Concen: 0.345 ug/l
RT: 3.050 min Scan# 532
Delta R.T. -0.001 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion: 84 Resp: 3847
Ion Ratio Lower Upper
84 100
49 106.0 97.2 145.8
51 39.3 0.0 73.4
86 59.0 50.2 75.4

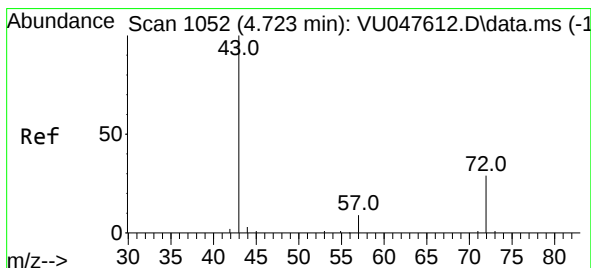
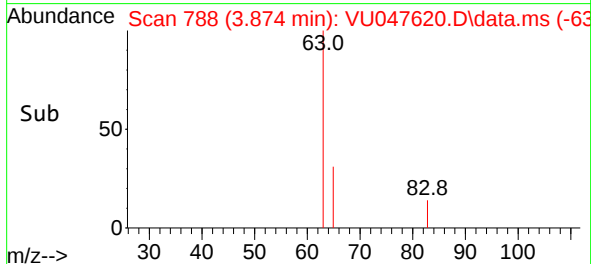
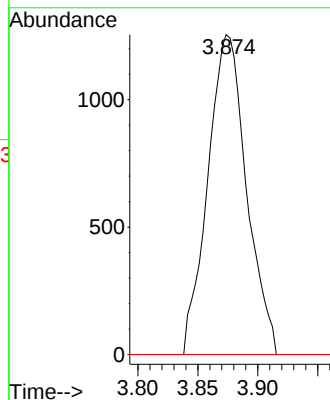
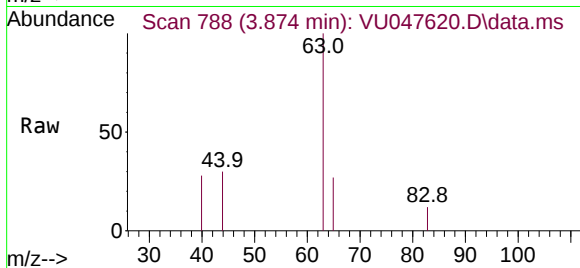




#17
1,1-Dichloroethane
Concen: 0.206 ug/l
RT: 3.874 min Scan# 71
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

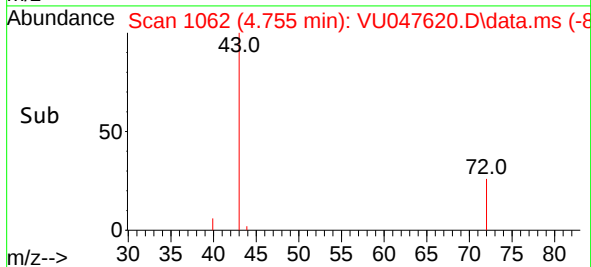
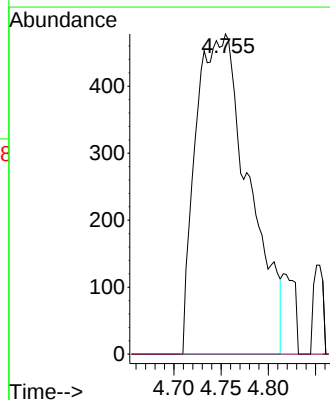
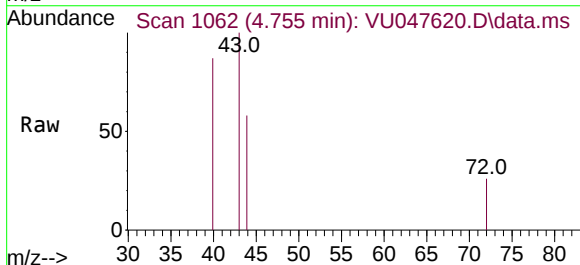
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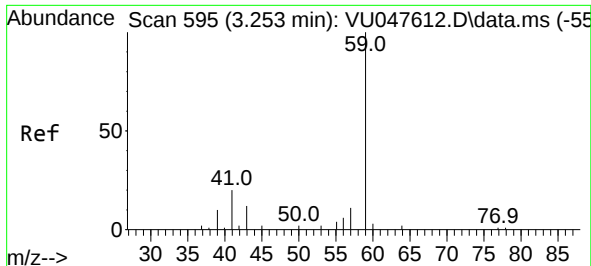
Tgt Ion: 63 Resp: 2815
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.8#
100 0.0 2.1 6.5#



#18
2-Butanone
Concen: 1.035 ug/l
RT: 4.755 min Scan# 1062
Delta R.T. 0.032 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion: 43 Resp: 1853
Ion Ratio Lower Upper
43 100
57 0.0 0.0 16.6

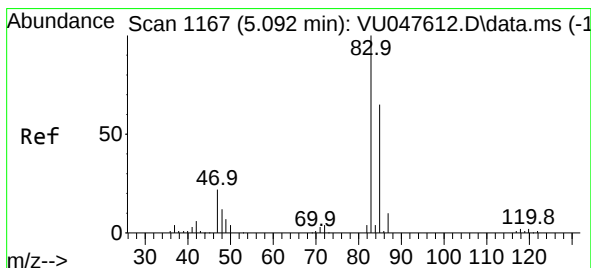
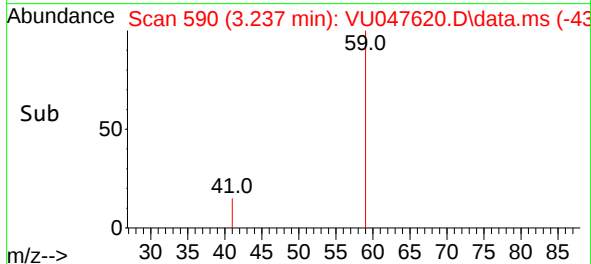
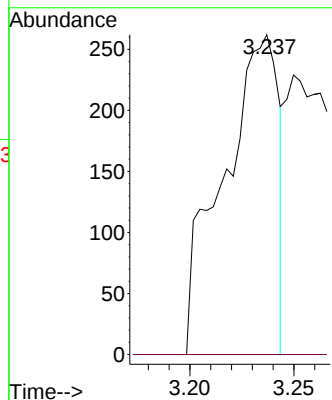
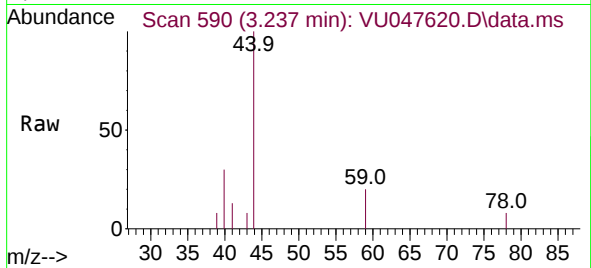




#24
tert-Butyl Alcohol
Concen: 1.257 ug/l
RT: 3.237 min Scan# 59
Delta R.T. -0.016 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

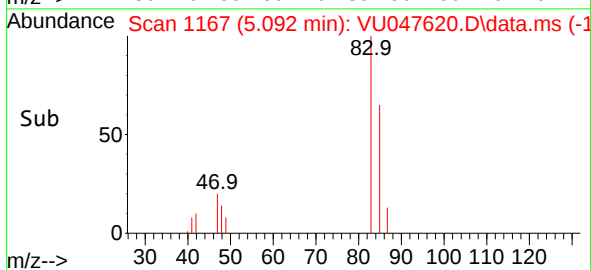
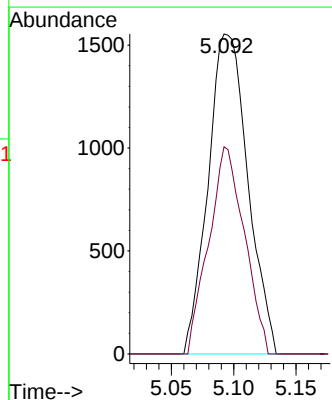
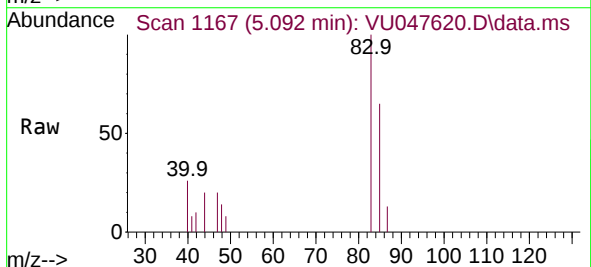
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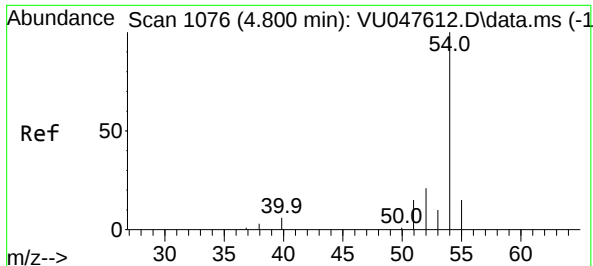
Tgt Ion: 59 Resp: 485
Ion Ratio Lower Upper
59 100
57 0.0 6.5 9.7#



#27
Chloroform
Concen: 0.233 ug/l
RT: 5.092 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion: 83 Resp: 3446
Ion Ratio Lower Upper
83 100
85 64.7 0.0 129.2

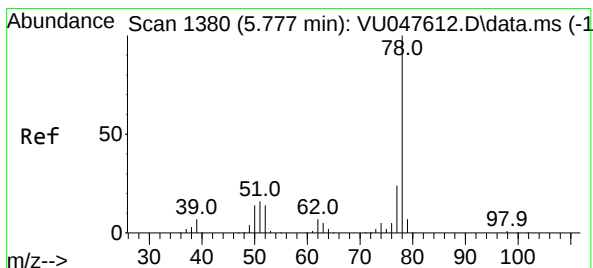
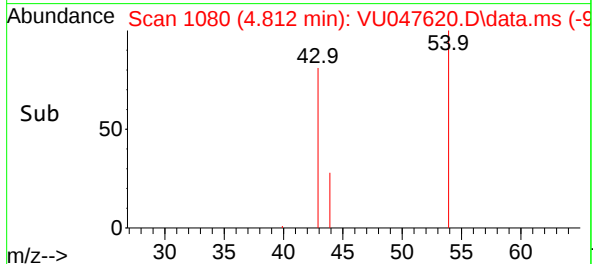
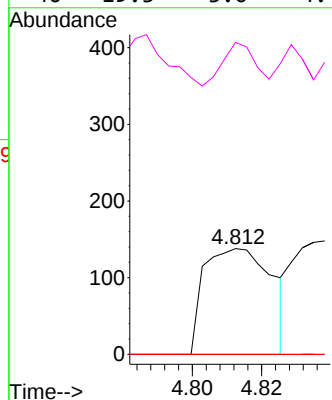
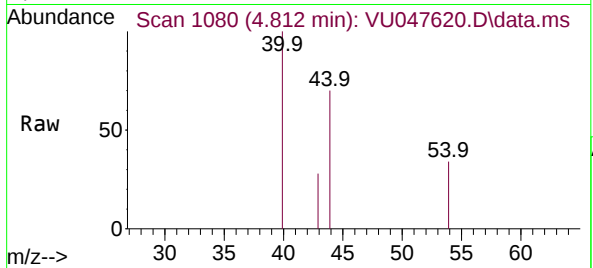




#34
 Propionitrile
 Concen: 0.386 ug/l
 RT: 4.812 min Scan# 1080
 Delta R.T. 0.012 min
 Lab File: VU047620.D
 Acq: 18 Mar 2022 17:45

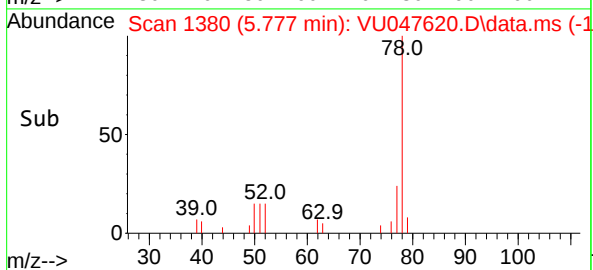
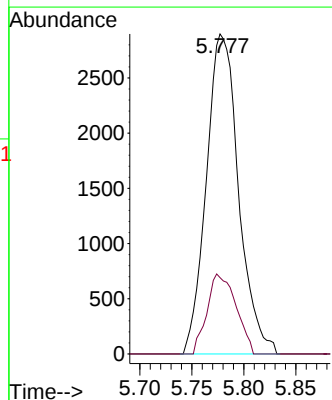
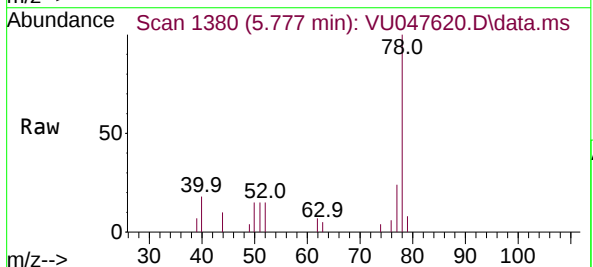
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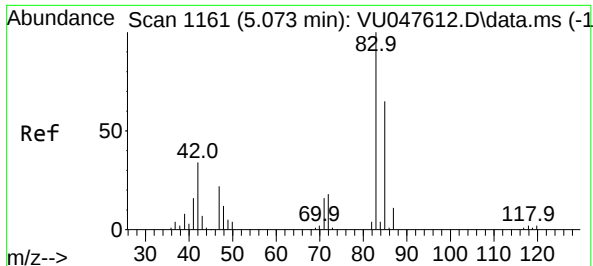
Tgt Ion: 54 Resp: 187
 Ion Ratio Lower Upper
 54 100
 52 0.0 11.9 17.9#
 55 0.0 8.0 12.0#
 40 19.3 3.0 4.4#



#35
 Benzene
 Concen: 0.201 ug/l
 RT: 5.777 min Scan# 1380
 Delta R.T. -0.000 min
 Lab File: VU047620.D
 Acq: 18 Mar 2022 17:45

Tgt Ion: 78 Resp: 6256
 Ion Ratio Lower Upper
 78 100
 77 23.8 19.1 28.7





#41

Tetrahydrofuran

Concen: 0.359 ug/l

RT: 5.076 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VU047620.D

Acq: 18 Mar 2022 17:45

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2022

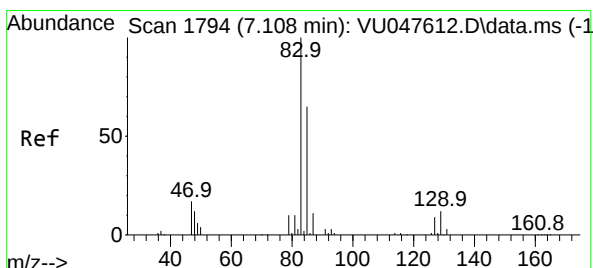
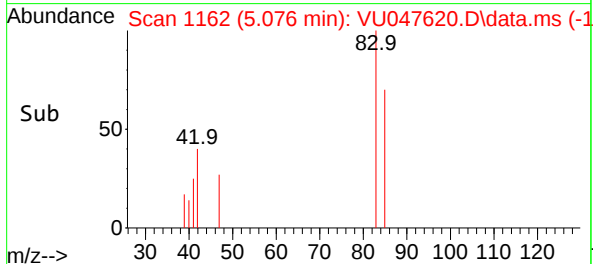
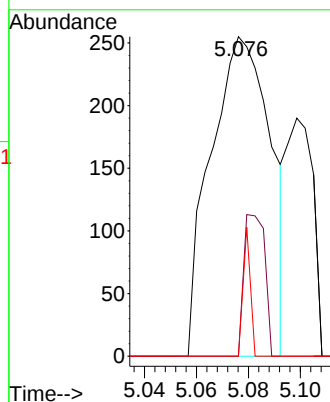
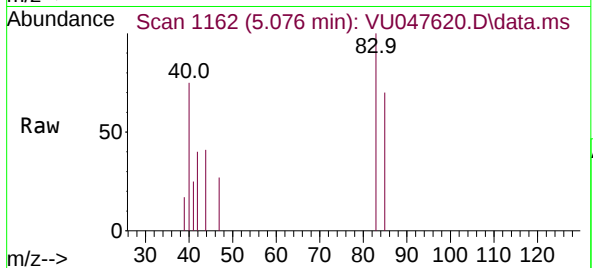
Tgt Ion: 42 Resp: 408

Ion Ratio Lower Upper

42 100

72 15.4 42.4 63.6#

71 4.9 36.4 54.6#



#44

Bromodichloromethane

Concen: 0.204 ug/l

RT: 7.111 min Scan# 1795

Delta R.T. 0.003 min

Lab File: VU047620.D

Acq: 18 Mar 2022 17:45

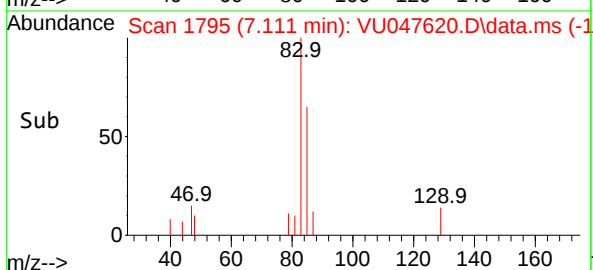
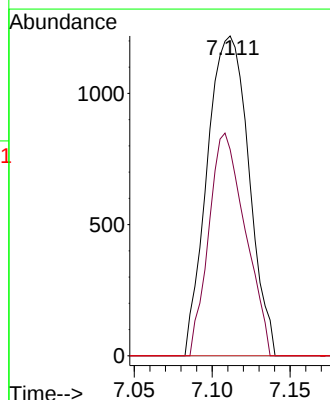
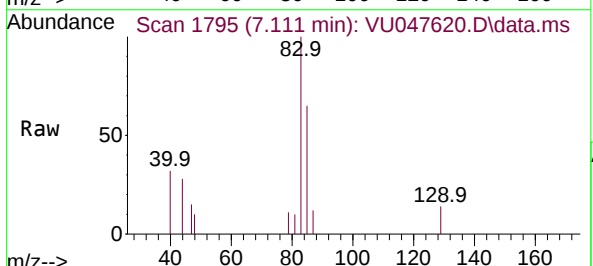
Tgt Ion: 83 Resp: 2271

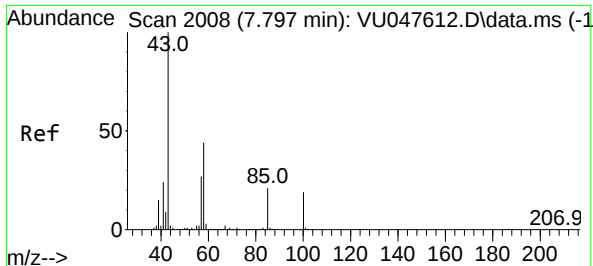
Ion Ratio Lower Upper

83 100

85 64.6 50.9 76.3

127 0.0 6.0 9.0#





#45

4-Methyl-2-Pentanone

Concen: 0.922 ug/l

RT: 7.803 min Scan# 2008

Delta R.T. 0.006 min

Lab File: VU047620.D

Acq: 18 Mar 2022 17:45

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2022

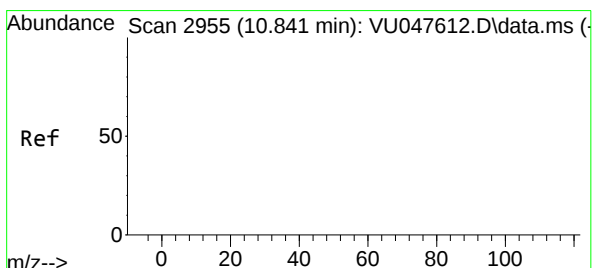
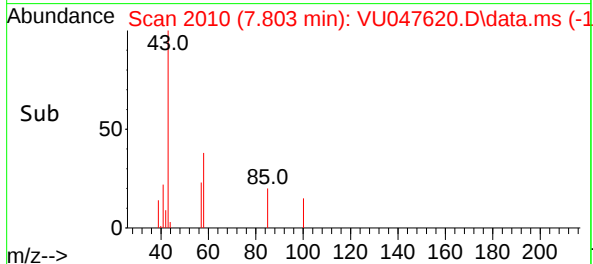
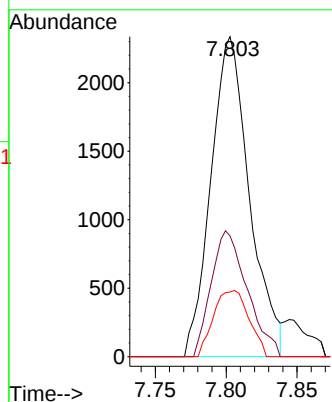
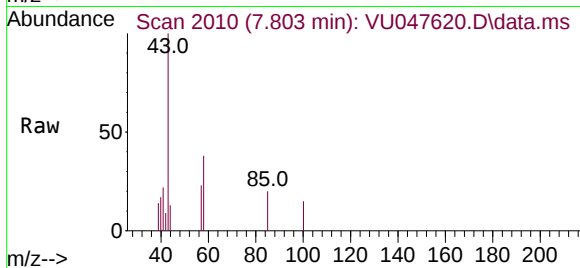
Tgt Ion: 43 Resp: 4425

Ion Ratio Lower Upper

43 100

58 36.8 21.0 63.0

85 19.0 14.8 22.2



#46

t-1,4-Dichloro-2-butene

Concen: 0.913 ug/l

RT: 10.825 min Scan# 2950

Delta R.T. -0.016 min

Lab File: VU047620.D

Acq: 18 Mar 2022 17:45

Tgt Ion: 75 Resp: 1904

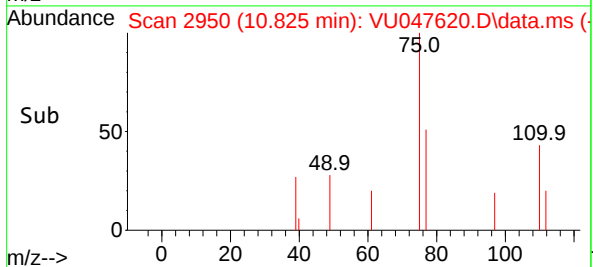
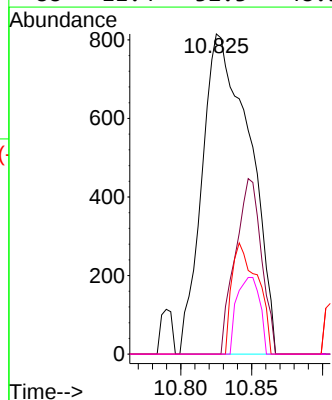
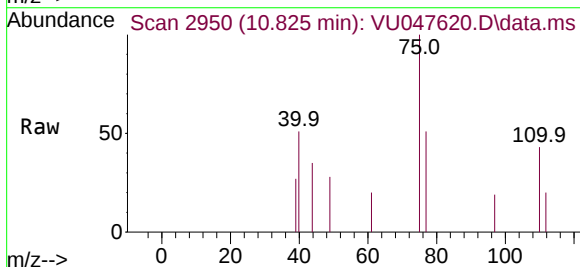
Ion Ratio Lower Upper

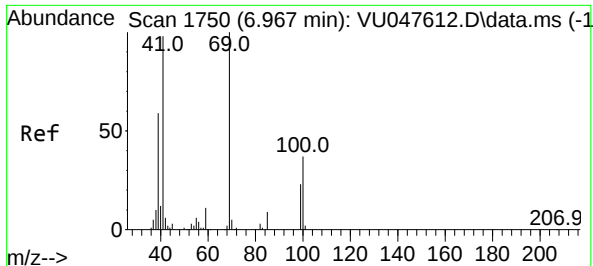
75 100

53 30.1 66.8 100.2#

89 18.8 41.7 62.5#

88 11.4 32.3 48.5#





#47

Methyl methacrylate

Concen: 0.324 ug/l

RT: 6.973 min Scan# 1

Delta R.T. 0.006 min

Lab File: VU047620.D

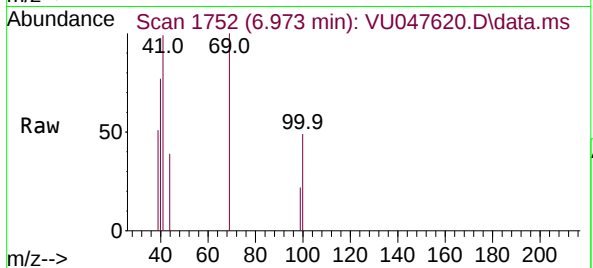
Acq: 18 Mar 2022 17:45

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2022



Tgt Ion: 69 Resp: 1260

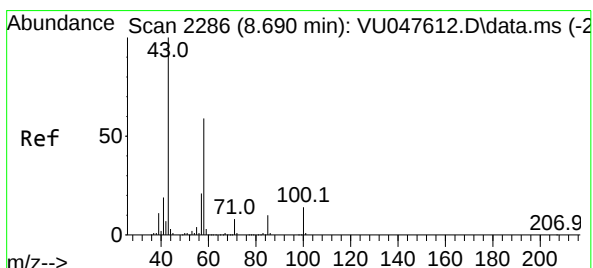
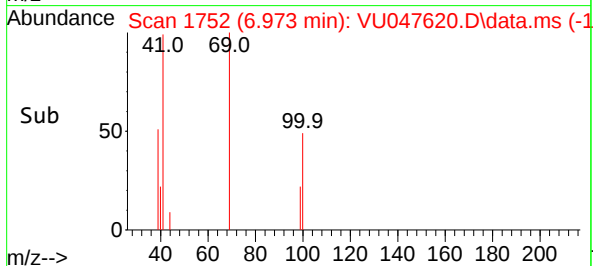
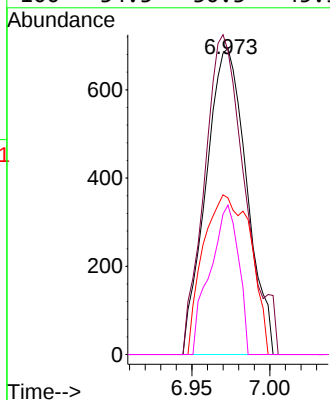
Ion Ratio Lower Upper

69 100

41 103.9 0.0 230.0

39 60.8 55.1 82.7

100 34.3 30.3 45.5



#54

2-Hexanone

Concen: 0.930 ug/l

RT: 8.697 min Scan# 2288

Delta R.T. 0.006 min

Lab File: VU047620.D

Acq: 18 Mar 2022 17:45

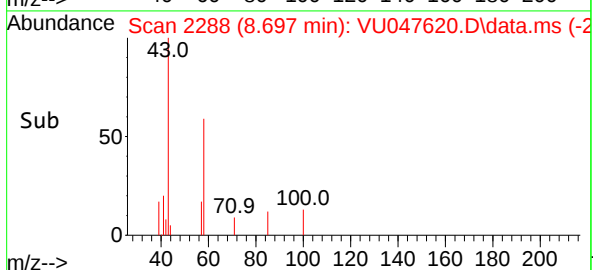
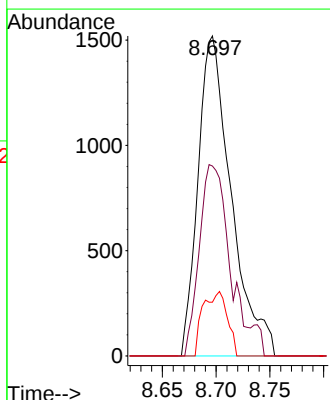
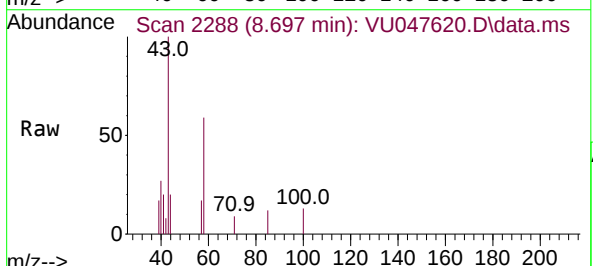
Tgt Ion: 43 Resp: 3258

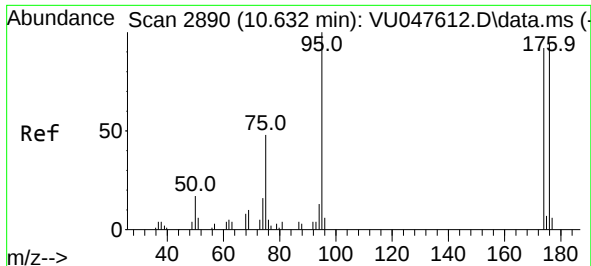
Ion Ratio Lower Upper

43 100

58 54.2 37.7 77.7

57 14.7 0.5 40.5

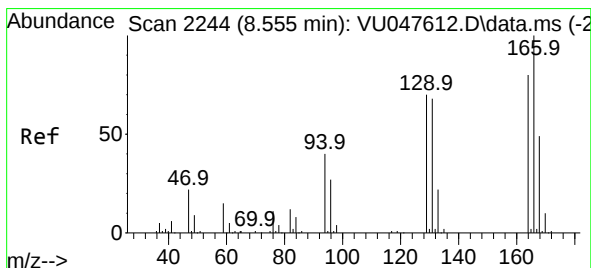
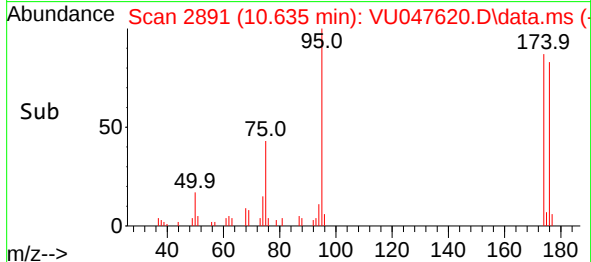
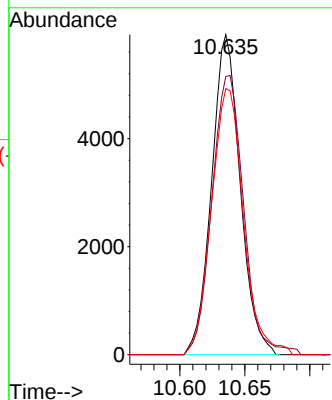
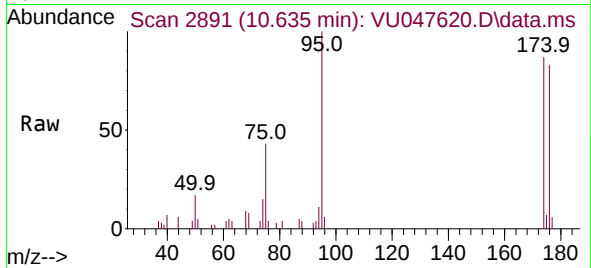




#57
4-Bromofluorobenzene
Concen: 0.848 ug/l
RT: 10.635 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

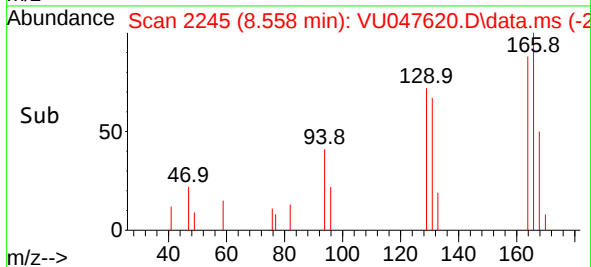
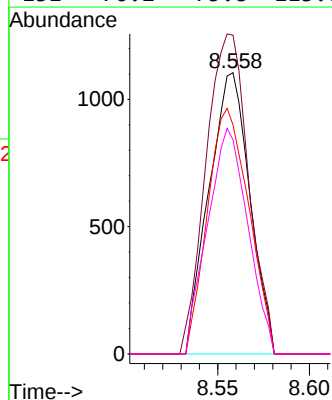
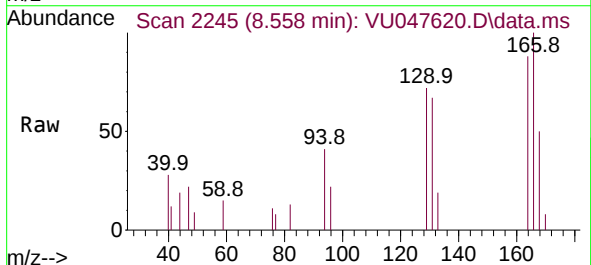
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2022

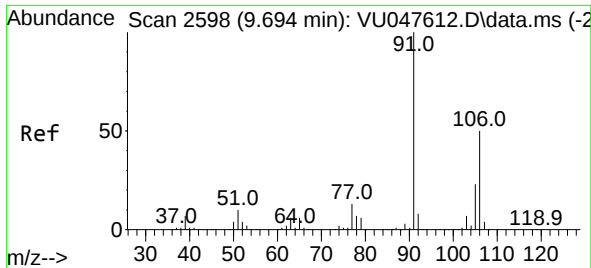
Tgt Ion: 95 Resp: 9056
Ion Ratio Lower Upper
95 100
174 96.6 56.6 84.8#
176 92.9 54.3 81.5#



#58
Tetrachloroethene
Concen: 0.207 ug/l
RT: 8.558 min Scan# 2245
Delta R.T. 0.003 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion: 164 Resp: 1715
Ion Ratio Lower Upper
164 100
166 113.3 102.0 153.0
129 81.4 77.1 115.7
131 76.2 75.8 113.6

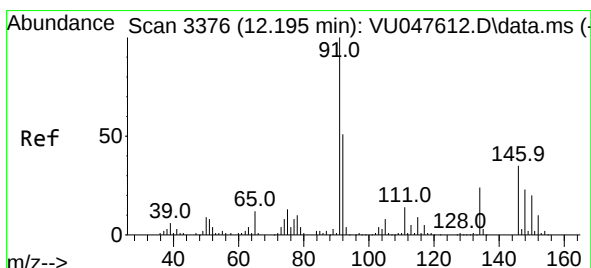
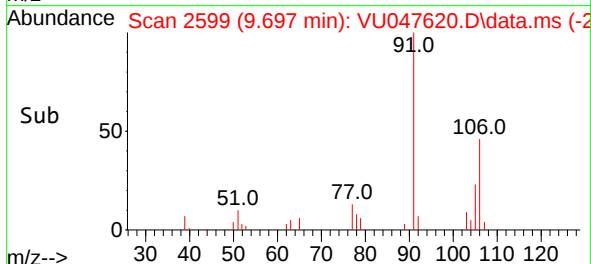
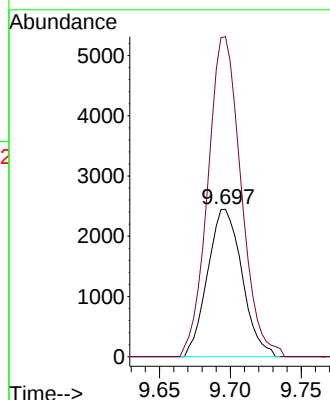
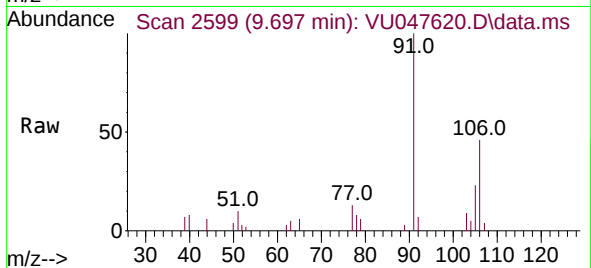




#64
m/p-Xylenes
Concen: 0.300 ug/l
RT: 9.697 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

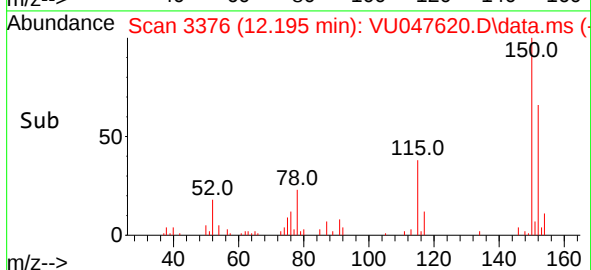
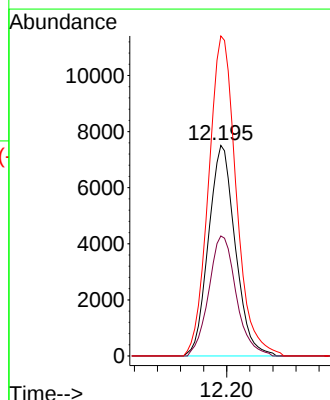
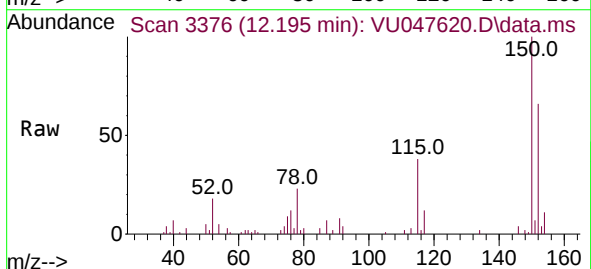
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2022

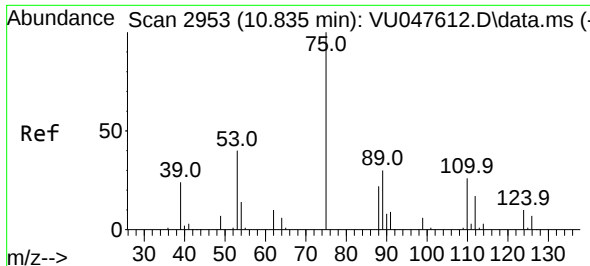
Tgt Ion:106 Resp: 4149
Ion Ratio Lower Upper
106 100
91 209.4 165.5 248.3



#68
1,2-Dichlorobenzene-d4
Concen: 0.933 ug/l
RT: 12.195 min Scan# 3376
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion:152 Resp: 12079
Ion Ratio Lower Upper
152 100
115 58.4 0.0 251.0
150 157.0 0.0 613.8

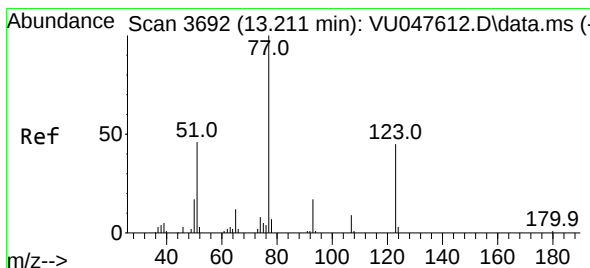
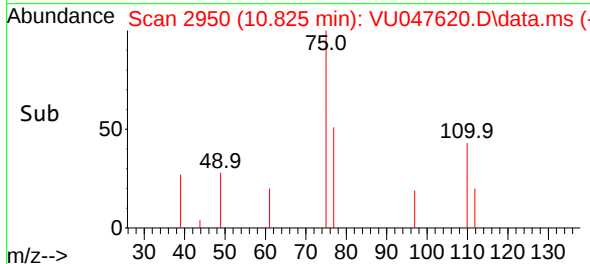
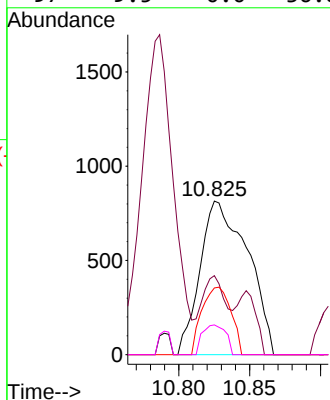
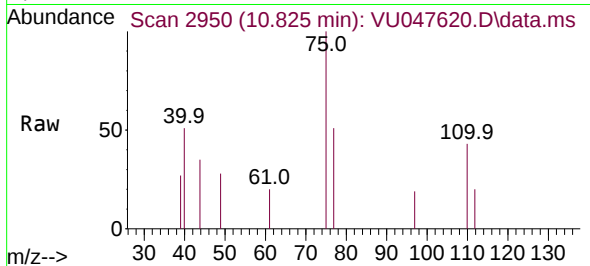




#71
1,2,3-Trichloropropane
Concen: 0.271 ug/l
RT: 10.825 min Scan# 2953
Delta R.T. -0.010 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

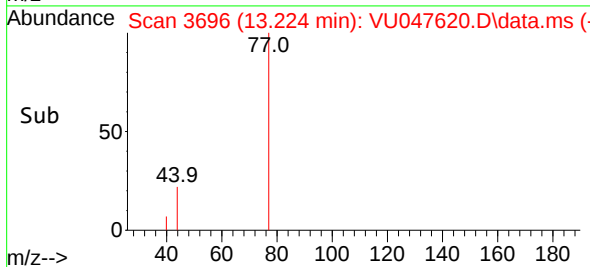
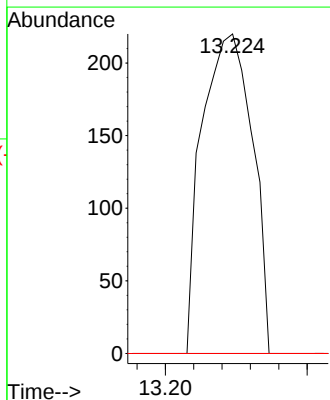
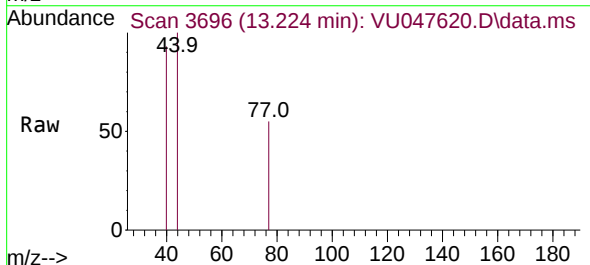
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2022

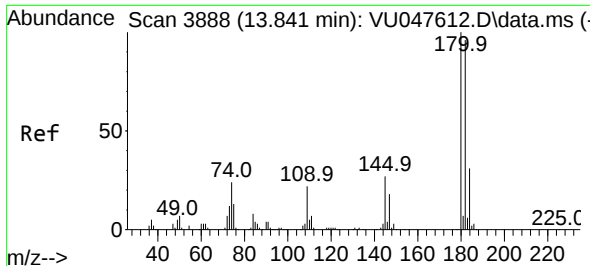
Tgt Ion: 75	Resp: 1904
Ion Ratio	Lower Upper
75 100	
77 26.2	0.0 105.6
110 26.6	0.0 71.2
97 9.5	0.0 36.8



#80
Nitrobenzene
Concen: 0.746 ug/l
RT: 13.224 min Scan# 3696
Delta R.T. 0.013 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion: 77	Resp: 271
Ion Ratio	Lower Upper
77 100	
123 0.0	18.2 64.4#
65 0.0	12.0 15.2#

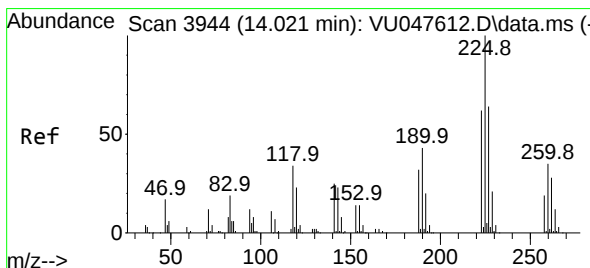
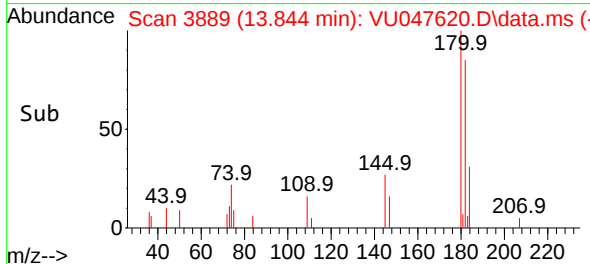
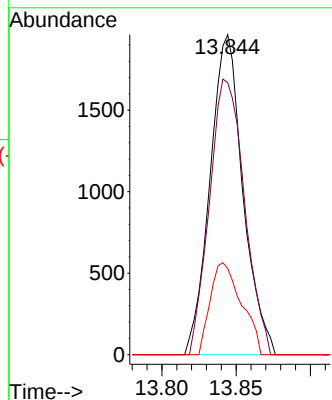
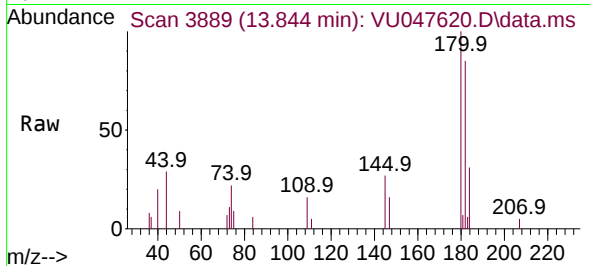




#87
1,2,4-Trichlorobenzene
Concen: 0.214 ug/l
RT: 13.844 min Scan# 3888
Delta R.T. 0.003 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

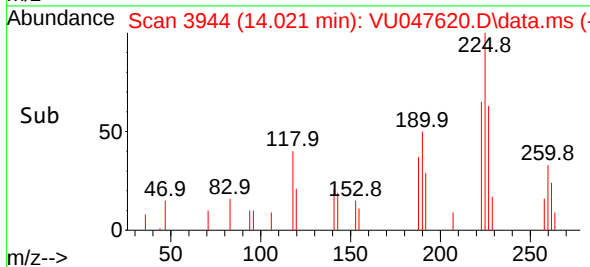
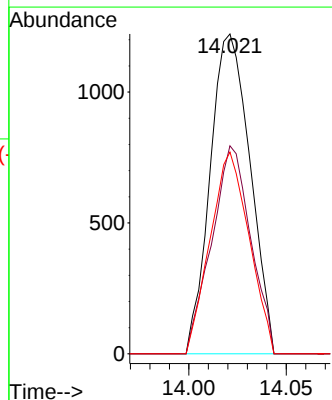
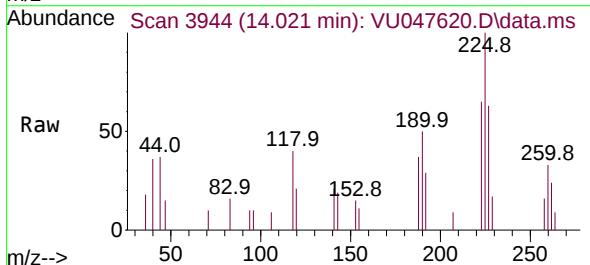
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2022

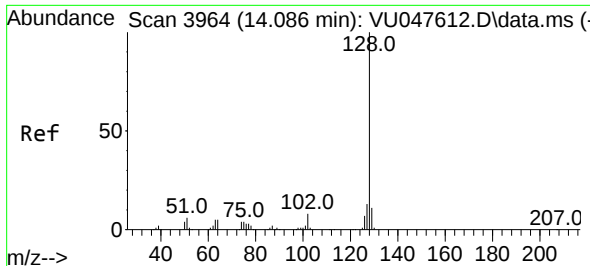
Tgt Ion:180 Resp: 3021
Ion Ratio Lower Upper
180 100
182 91.5 75.8 113.8
145 27.2 25.3 37.9



#88
Hexachlorobutadiene
Concen: 0.206 ug/l
RT: 14.021 min Scan# 3944
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion:225 Resp: 1742
Ion Ratio Lower Upper
225 100
223 63.5 51.1 76.7
227 61.6 49.9 74.9

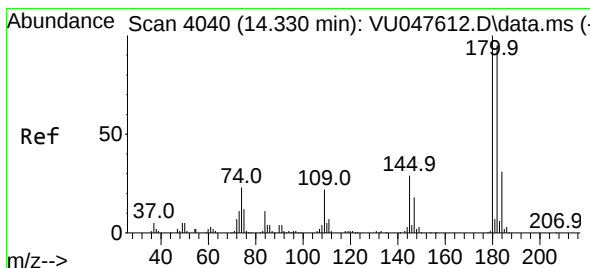
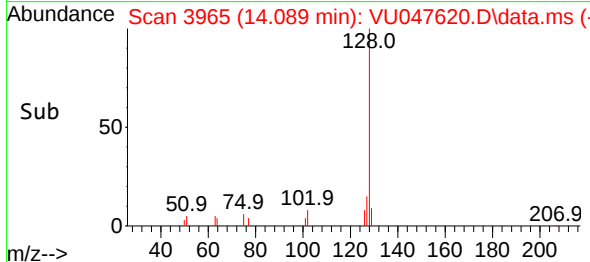
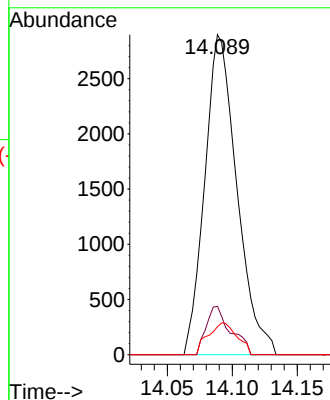
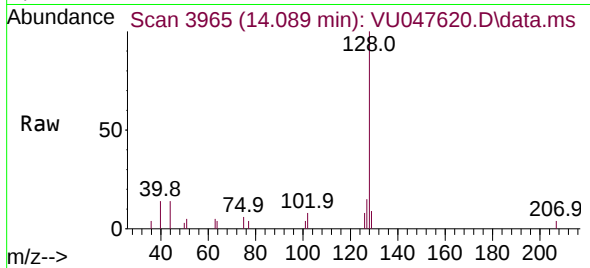




#89
Naphthalene
Concen: 0.208 ug/l
RT: 14.089 min Scan# 3964
Delta R.T. 0.003 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2022

Tgt Ion:	128	Resp:	4983
Ion Ratio	Lower	Upper	
128	100		
127	11.6	10.6	16.0
129	8.9	8.6	13.0



#90
1,2,3-Trichlorobenzene
Concen: 0.219 ug/l
RT: 14.330 min Scan# 4040
Delta R.T. -0.000 min
Lab File: VU047620.D
Acq: 18 Mar 2022 17:45

Tgt Ion:	180	Resp:	2905
Ion Ratio	Lower	Upper	
180	100		
182	90.3	75.4	113.0
145	24.3	27.0	40.4#

