

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062922\
 Data File : VU049518.D
 Acq On : 29 Jun 2022 17:31
 Operator : SY/MD
 Sample : N3499-04 50X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 31052-WATER

Quant Time: Jun 29 19:13:07 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U062722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 28 10:35:43 2022
 Response via : Initial Calibration

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

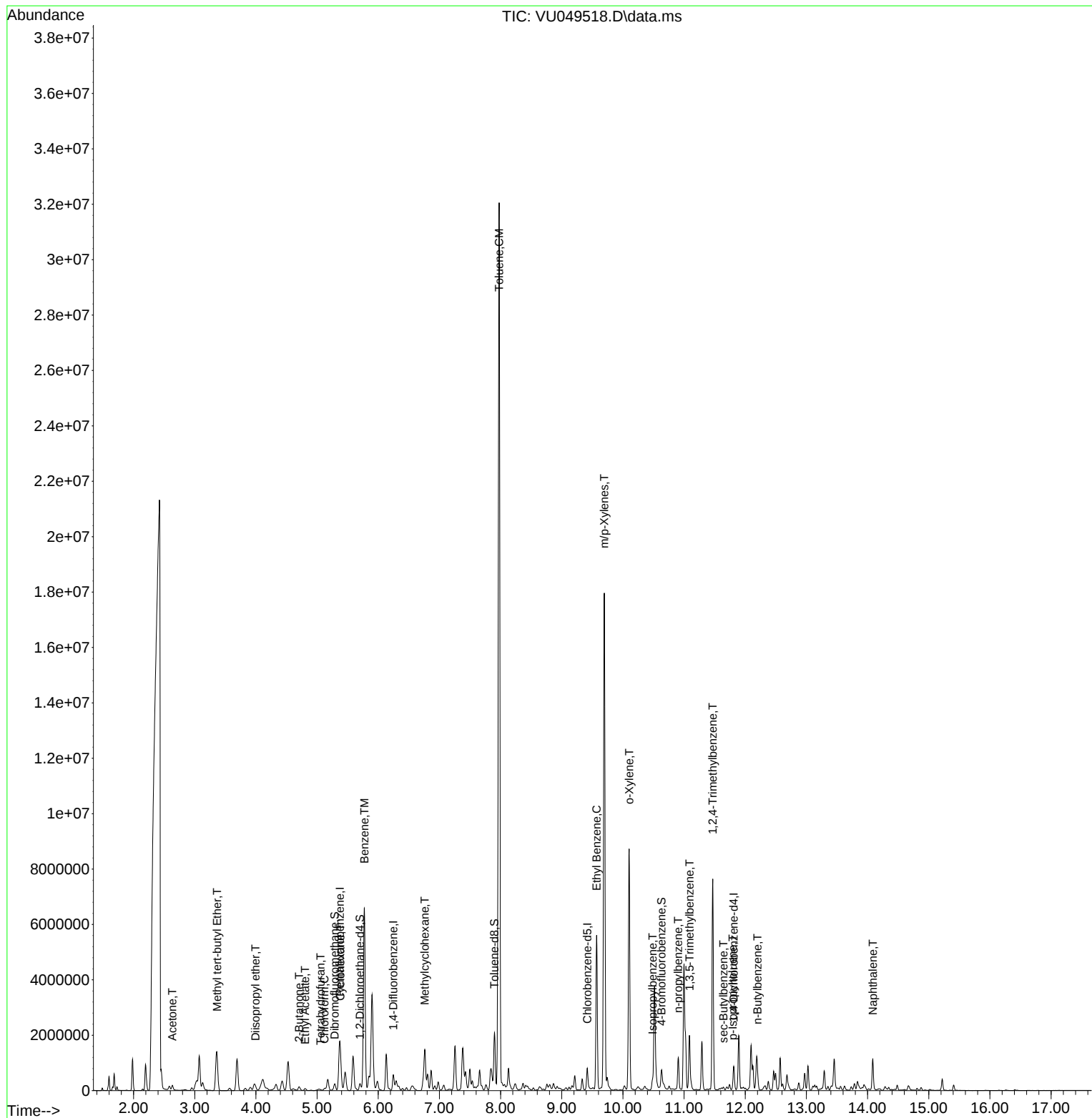
Internal Standards						
1) Pentafluorobenzene	5.372	168	266834	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.247	114	457594	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	415518	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	213446	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.700	65	181992	44.287	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	88.580%		
35) Dibromofluoromethane	5.288	113	146185	45.662	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.320%		
50) Toluene-d8	7.899	98	564678	49.452	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.900%		
62) 4-Bromofluorobenzene	10.632	95	207235	47.377	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.760%		
Target Compounds						
						Qvalue
16) Acetone	2.636	43	191249	92.286	ug/l	100
19) Methyl tert-butyl Ether	3.366	73	811140	75.252	ug/l	# 1
22) Diisopropyl ether	3.993	45	115536	10.331	ug/l	# 50
25) 2-Butanone	4.706	43	199713	64.305	ug/l	95
29) Tetrahydrofuran	5.060	42	11047	5.185	ug/l	95
30) Chloroform	5.121	83	12988	2.044	ug/l	# 81
31) Cyclohexane	5.378	56	549305	89.023	ug/l	# 76
37) Ethyl Acetate	4.806	43	101530	16.006	ug/l	# 94
39) Methylcyclohexane	6.761	83	622129	111.810	ug/l	89
40) Benzene	5.774	78	6023114	429.762	ug/l	100
52) Toluene	7.976	92	13912099	1670.126	ug/l	# 1
67) Ethyl Benzene	9.571	91	3900596	250.118	ug/l	96
68) m/p-Xylenes	9.697	106	4864216	842.986	ug/l	89
69) o-Xylene	10.102	106	2189325	382.188	ug/l	88
73) Isopropylbenzene	10.484	105	224174	14.743	ug/l	96
78) n-propylbenzene	10.906	91	898224	48.616	ug/l	96
80) 1,3,5-Trimethylbenzene	11.089	105	1042943	78.569	ug/l	94
84) 1,2,4-Trimethylbenzene	11.468	105	4113065	315.403	ug/l	93
85) sec-Butylbenzene	11.642	105	54977m	3.349	ug/l	
86) p-Isopropyltoluene	11.793	119	33469	2.521	ug/l	95
89) n-Butylbenzene	12.201	91	240534	19.574	ug/l	# 33
95) Naphthalene	14.086	128	845634	50.583	ug/l	100

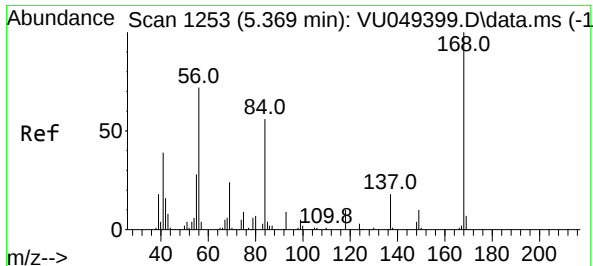
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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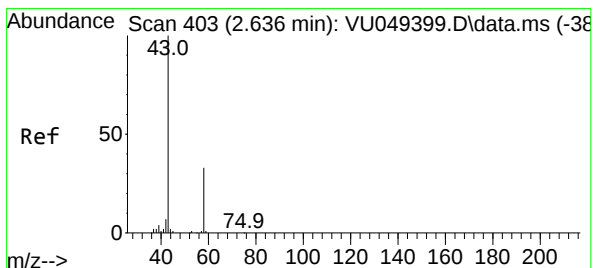
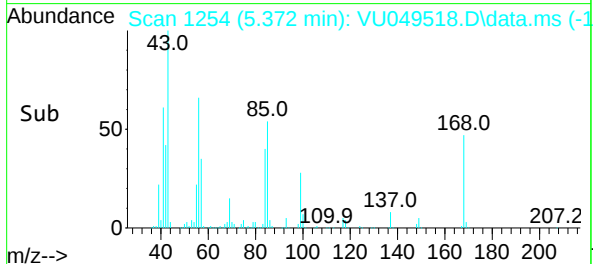
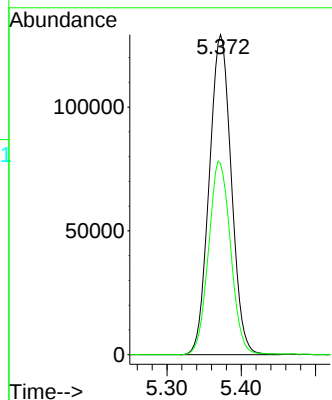
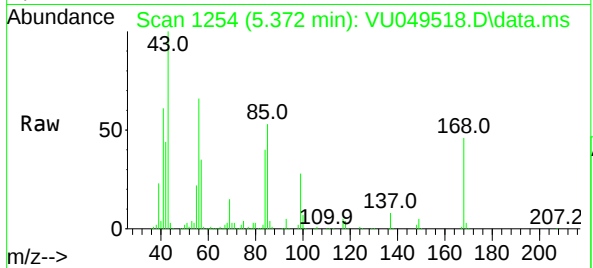




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

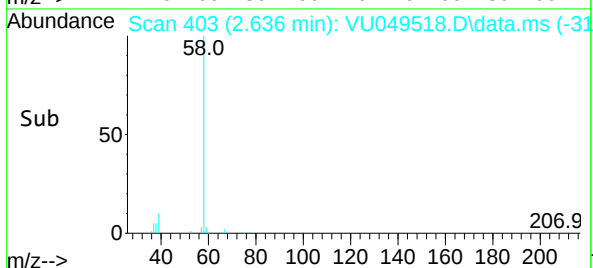
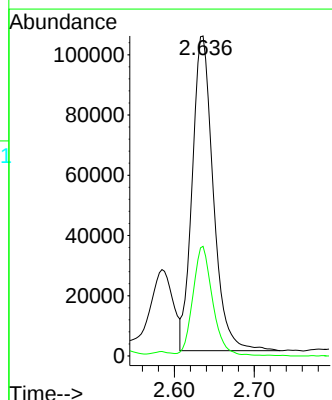
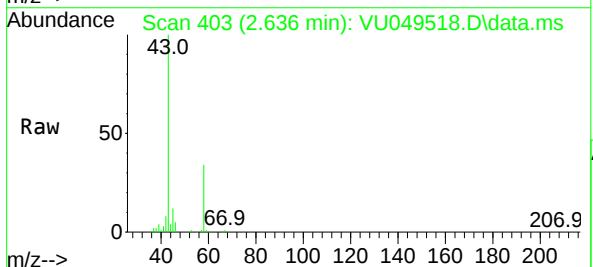
Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

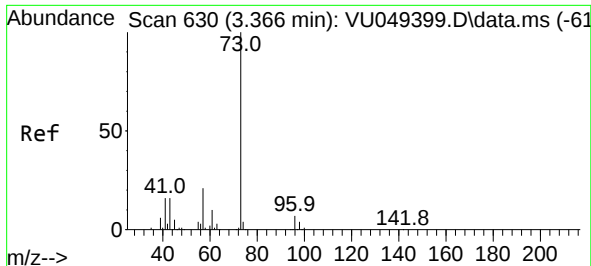
Tgt Ion:168 Resp: 266834
Ion Ratio Lower Upper
168 100
99 59.7 39.3 58.9#



#16
Acetone
Concen: 92.286 ug/l
RT: 2.636 min Scan# 403
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion: 43 Resp: 191249
Ion Ratio Lower Upper
43 100
58 34.6 27.5 41.3

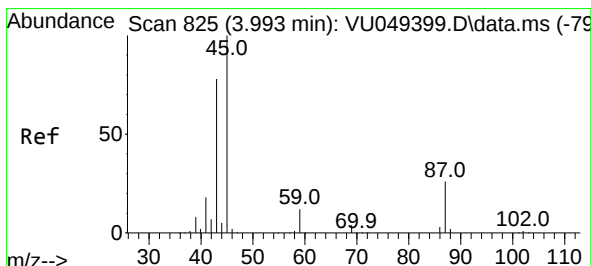
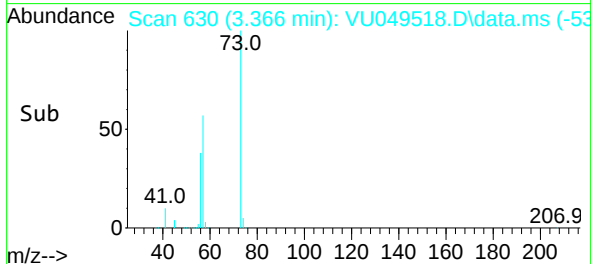
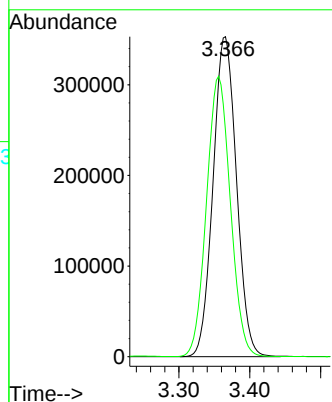
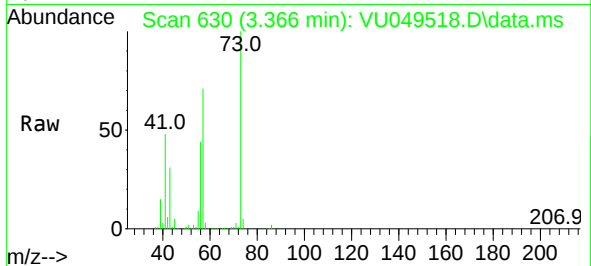




#19
Methyl tert-butyl Ether
Concen: 75.252 ug/l
RT: 3.366 min Scan# 611
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

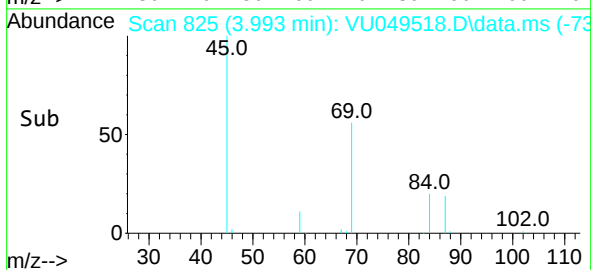
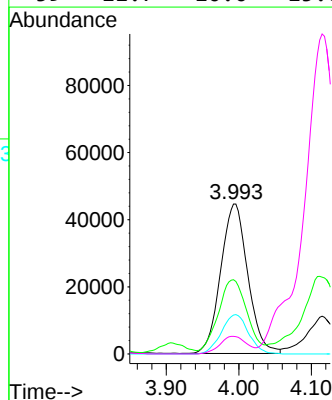
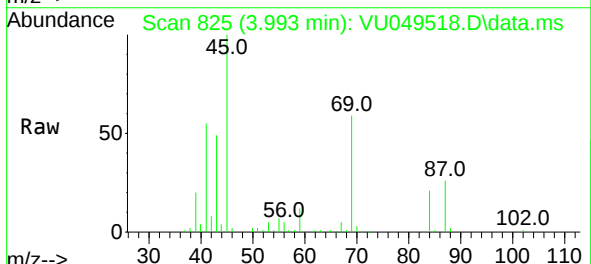
Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

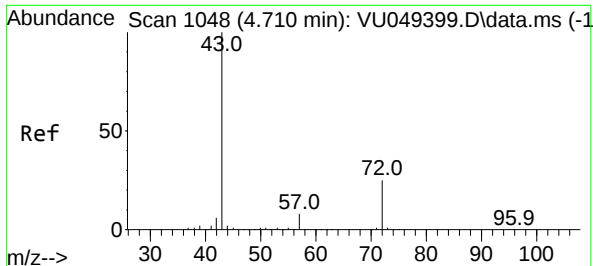
Tgt Ion: 73 Resp: 811140
Ion Ratio Lower Upper
73 100
57 70.6 17.1 25.7#



#22
Diisopropyl ether
Concen: 10.331 ug/l
RT: 3.993 min Scan# 825
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion: 45 Resp: 115536
Ion Ratio Lower Upper
45 100
43 43.5 92.9 139.3#
87 26.1 26.2 39.2#
59 11.7 10.0 15.0





#25

2-Butanone

Concen: 64.305 ug/l

RT: 4.706 min Scan# 1104

Delta R.T. -0.003 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

Instrument :

MSVOA_U

ClientSampleId :

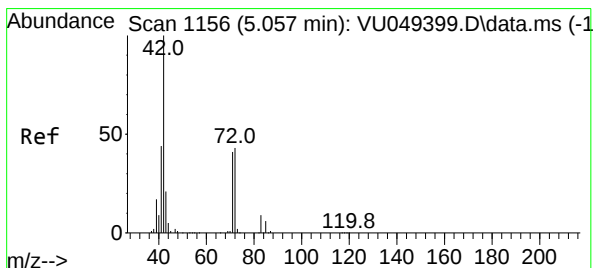
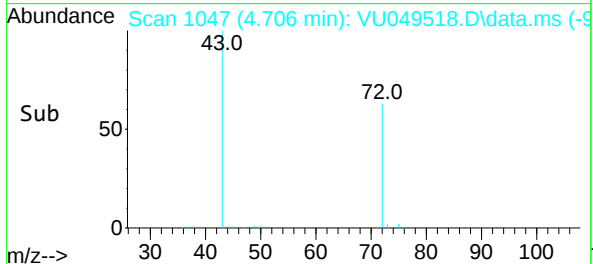
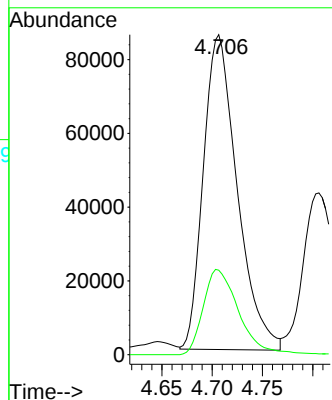
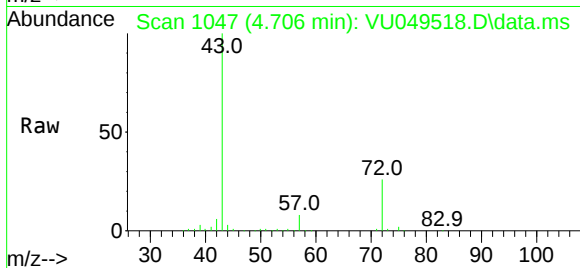
31052-WATER

Tgt Ion: 43 Resp: 199713

Ion Ratio Lower Upper

43 100

72 27.0 23.8 35.6



#29

Tetrahydrofuran

Concen: 5.185 ug/l

RT: 5.060 min Scan# 1157

Delta R.T. 0.003 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

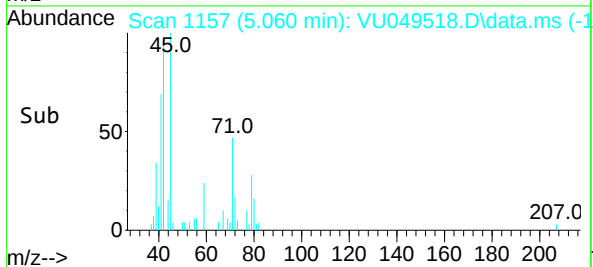
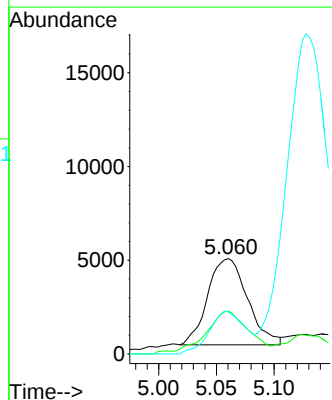
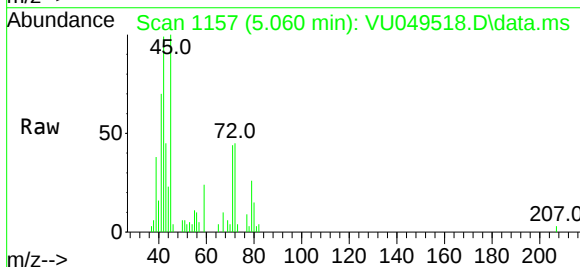
Tgt Ion: 42 Resp: 11047

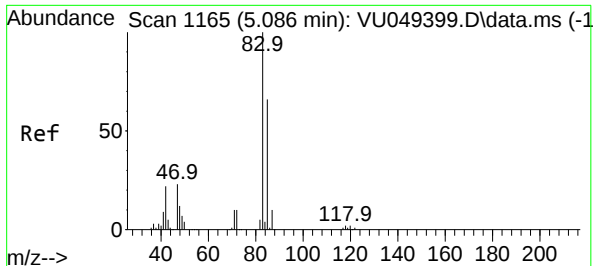
Ion Ratio Lower Upper

42 100

72 54.6 42.6 63.8

71 44.1 40.3 60.5

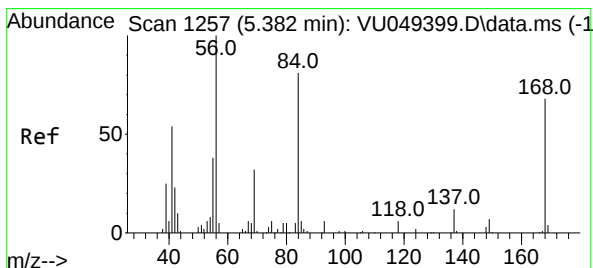
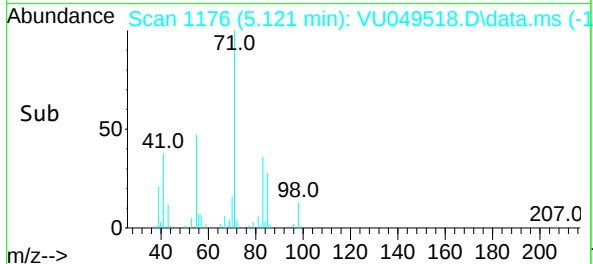
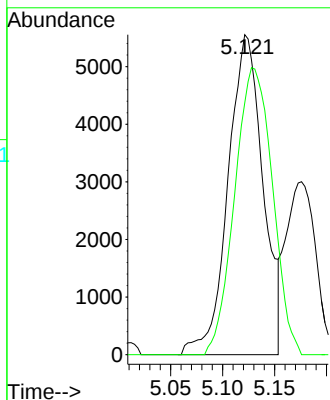
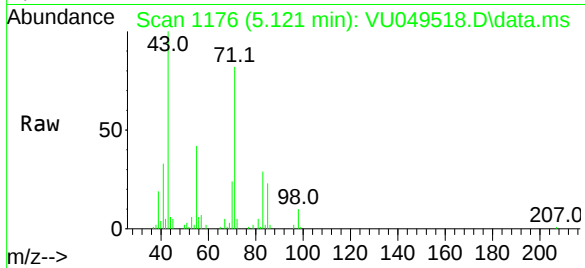




#30
Chloroform
Concen: 2.044 ug/l
RT: 5.121 min Scan# 1165
Delta R.T. 0.035 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

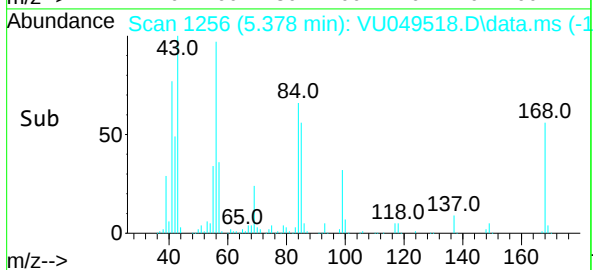
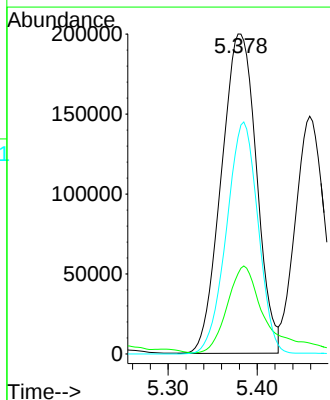
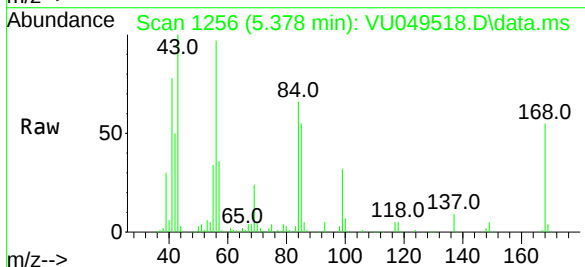
Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

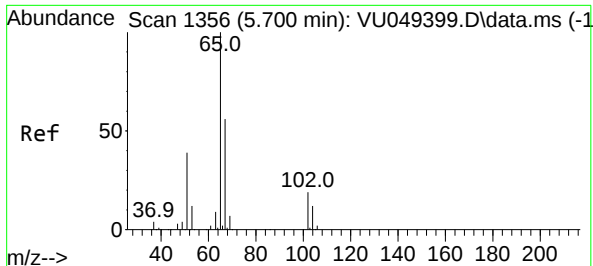
Tgt Ion: 83 Resp: 12988
Ion Ratio Lower Upper
83 100
85 78.7 51.2 76.8#



#31
Cyclohexane
Concen: 89.023 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. -0.003 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion: 56 Resp: 549305
Ion Ratio Lower Upper
56 100
69 24.0 27.8 41.8#
84 67.9 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 44.287 ug/l

RT: 5.700 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

Instrument :

MSVOA_U

ClientSampleId :

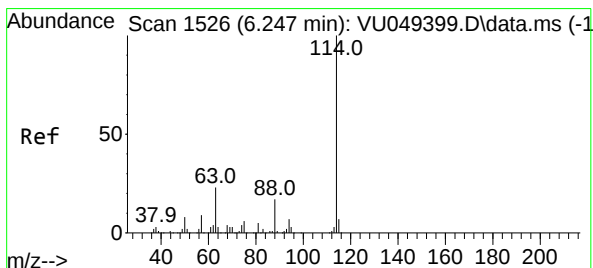
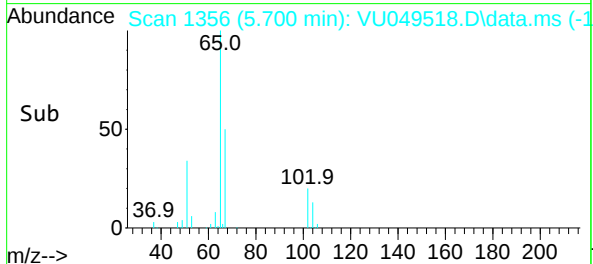
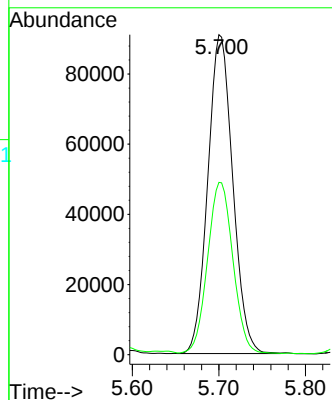
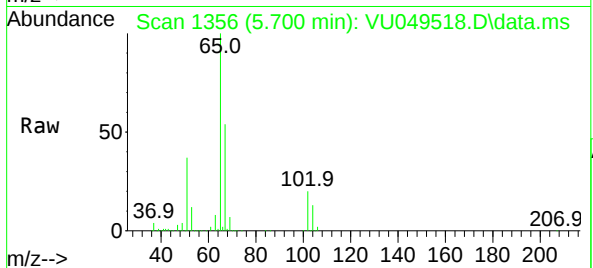
31052-WATER

Tgt Ion: 65 Resp: 181992

Ion Ratio Lower Upper

65 100

67 54.5 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.247 min Scan# 1526

Delta R.T. 0.000 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

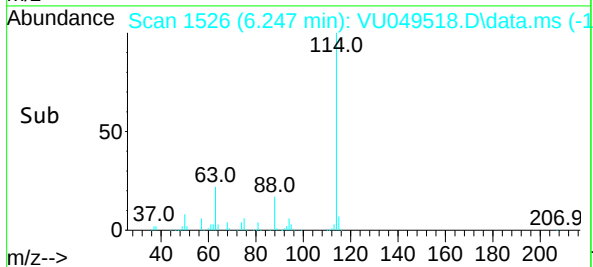
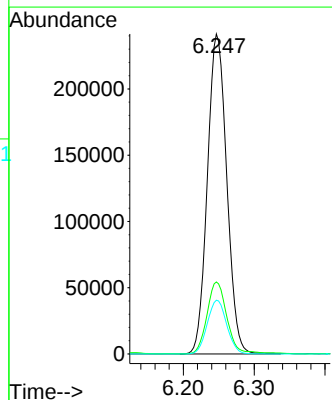
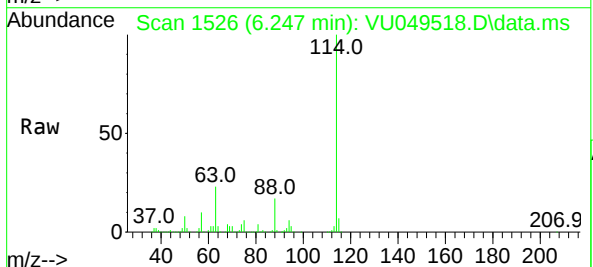
Tgt Ion: 114 Resp: 457594

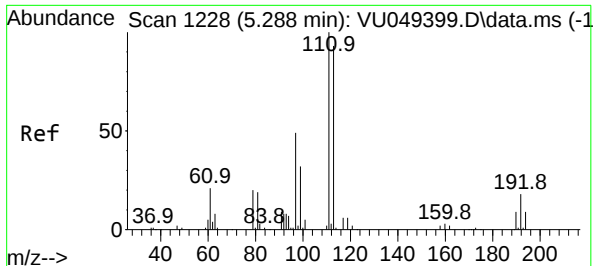
Ion Ratio Lower Upper

114 100

63 22.4 0.0 37.8

88 16.8 0.0 29.2





#35

Dibromofluoromethane

Concen: 45.662 ug/l

RT: 5.288 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

Instrument :

MSVOA_U

ClientSampleId :

31052-WATER

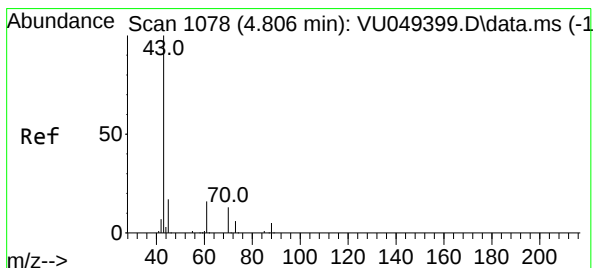
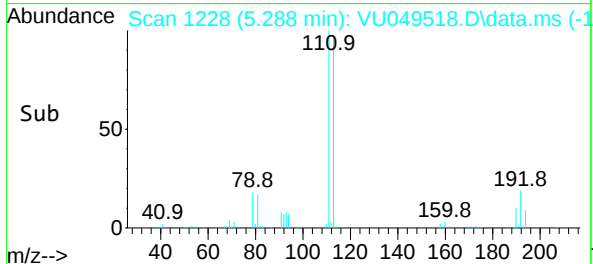
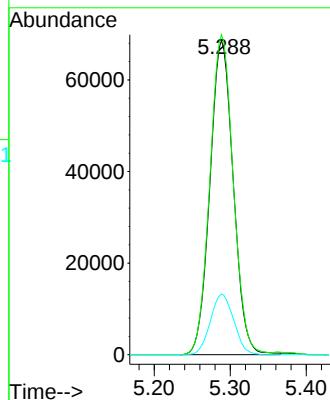
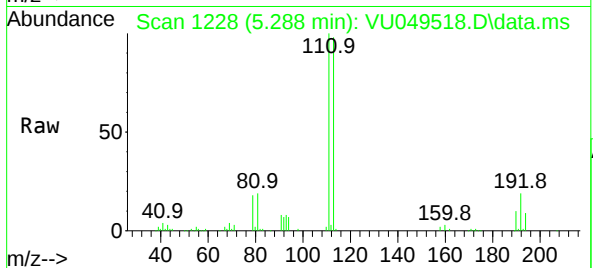
Tgt Ion:113 Resp: 146185

Ion Ratio Lower Upper

113 100

111 102.2 82.1 123.1

192 19.3 18.0 27.0



#37

Ethyl Acetate

Concen: 16.006 ug/l

RT: 4.806 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

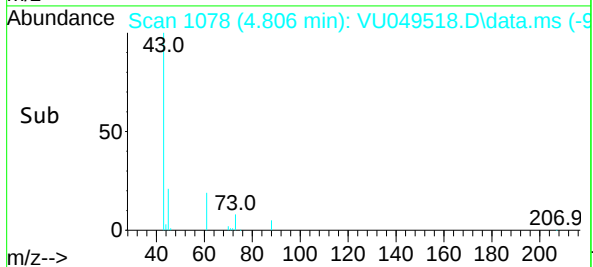
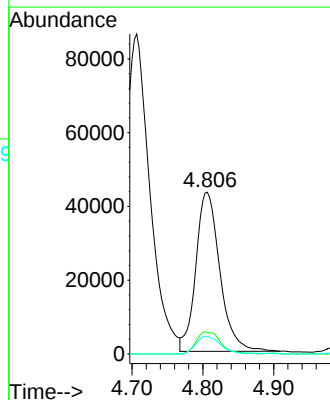
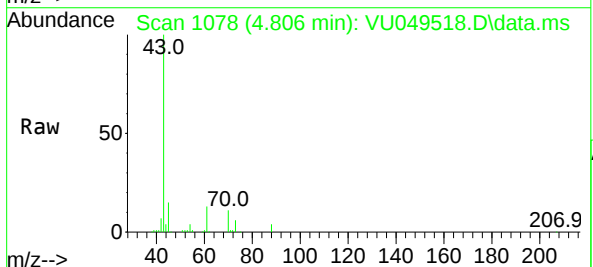
Tgt Ion: 43 Resp: 101530

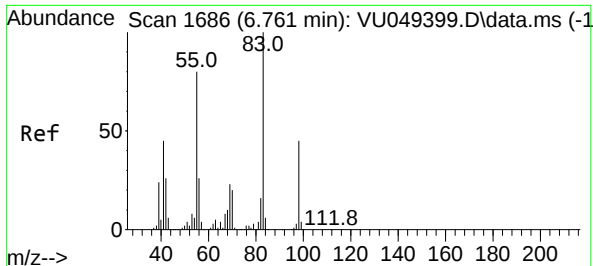
Ion Ratio Lower Upper

43 100

61 14.2 9.5 14.3

70 11.5 7.5 11.3#





#39

Methylcyclohexane

Concen: 111.810 ug/l

RT: 6.761 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

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MSVOA_U

ClientSampleId :

31052-WATER

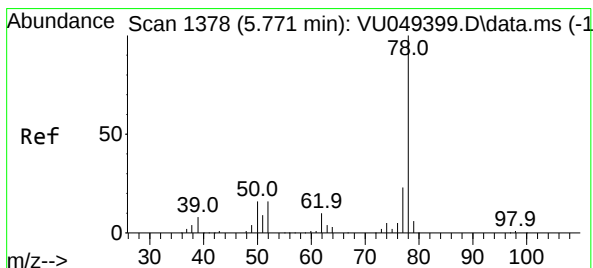
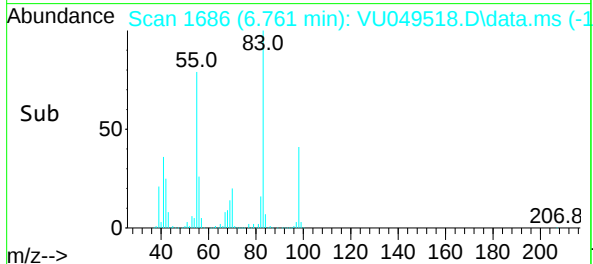
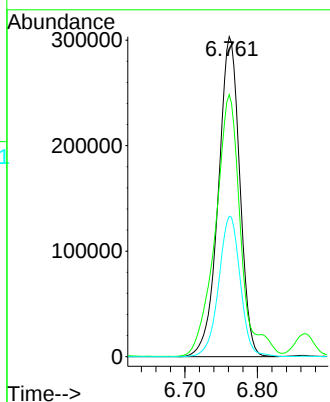
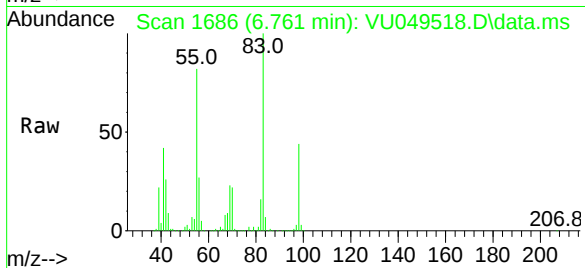
Tgt Ion: 83 Resp: 622129

Ion Ratio Lower Upper

83 100

55 81.8 55.3 82.9

98 43.9 37.3 55.9



#40

Benzene

Concen: 429.762 ug/l

RT: 5.774 min Scan# 1379

Delta R.T. 0.003 min

Lab File: VU049518.D

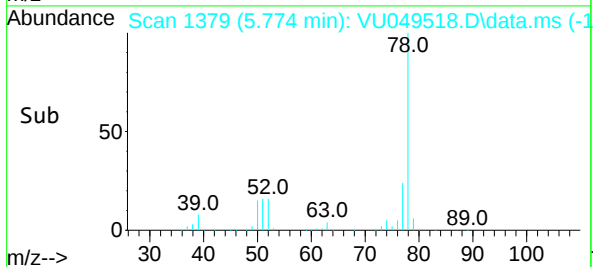
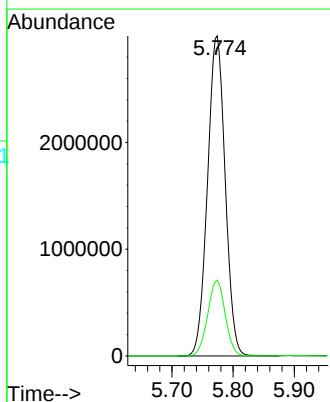
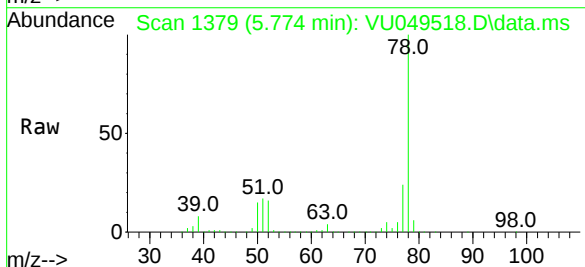
Acq: 29 Jun 2022 17:31

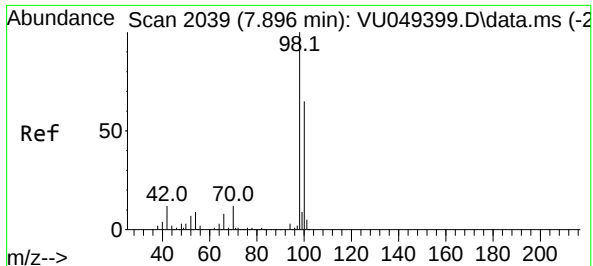
Tgt Ion: 78 Resp: 6023114

Ion Ratio Lower Upper

78 100

77 23.6 18.8 28.2

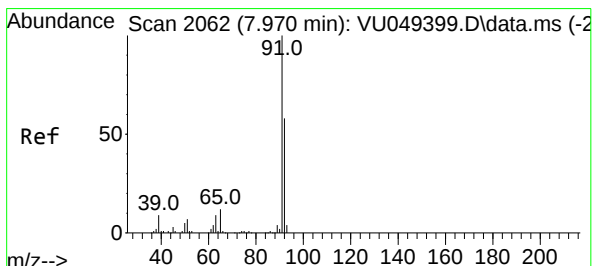
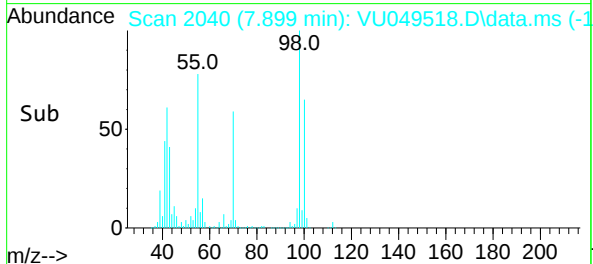
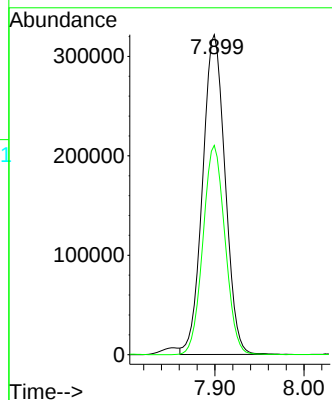
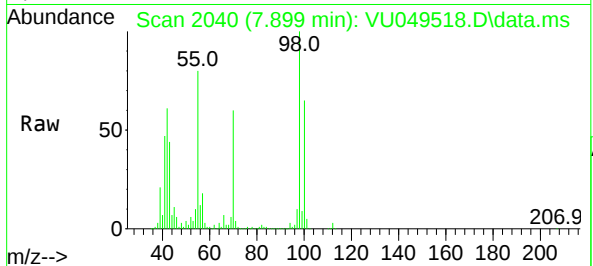




#50
Toluene-d8
Concen: 49.452 ug/l
RT: 7.899 min Scan# 2039
Delta R.T. 0.003 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

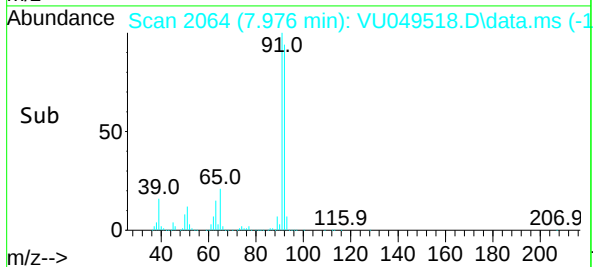
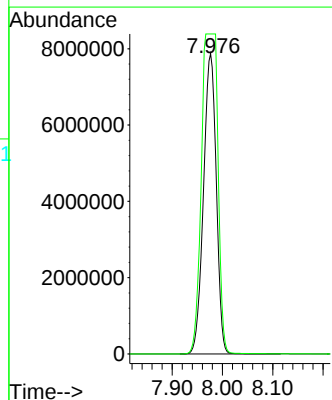
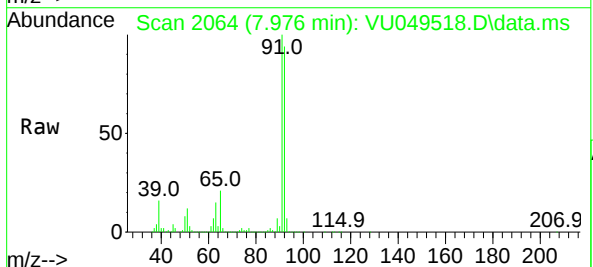
Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

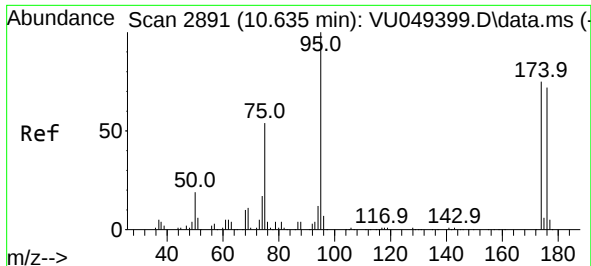
Tgt Ion: 98 Resp: 564678
Ion Ratio Lower Upper
98 100
100 64.2 51.7 77.5



#52
Toluene
Concen: 1670.126 ug/l
RT: 7.976 min Scan# 2064
Delta R.T. 0.006 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion: 92 Resp:13912099
Ion Ratio Lower Upper
92 100
91 0.0 138.2 207.4#





#62

4-Bromofluorobenzene

Concen: 47.377 ug/l

RT: 10.632 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

Instrument :

MSVOA_U

ClientSampleId :

31052-WATER

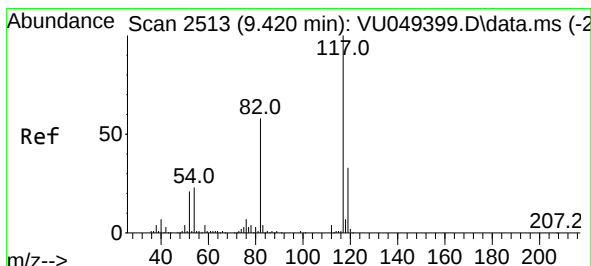
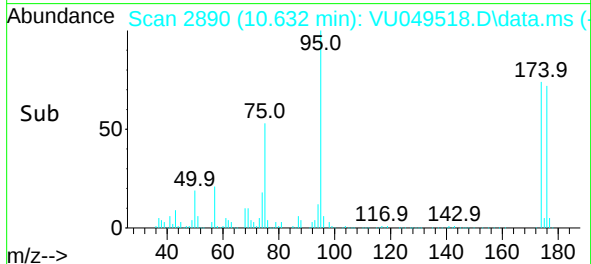
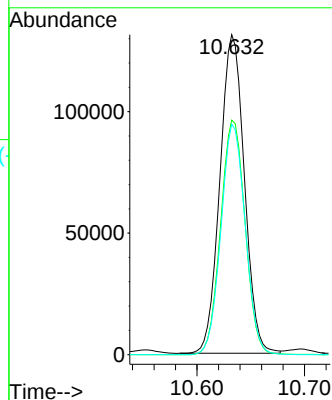
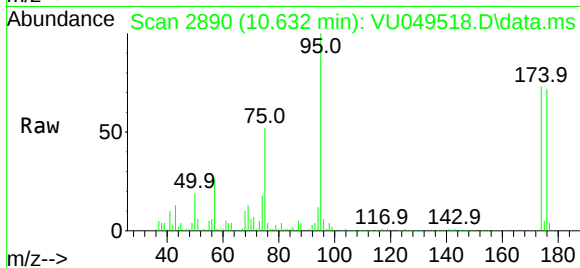
Tgt Ion: 95 Resp: 207235

Ion Ratio Lower Upper

95 100

174 73.7 0.0 182.0

176 71.7 0.0 177.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.417 min Scan# 2512

Delta R.T. -0.003 min

Lab File: VU049518.D

Acq: 29 Jun 2022 17:31

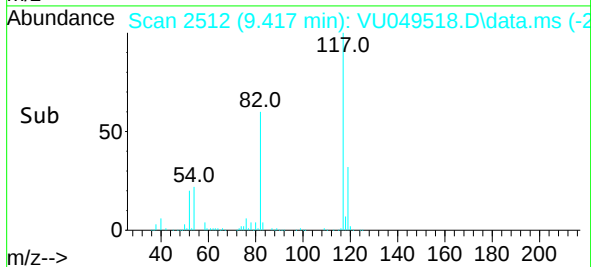
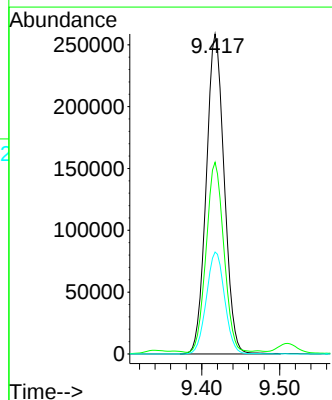
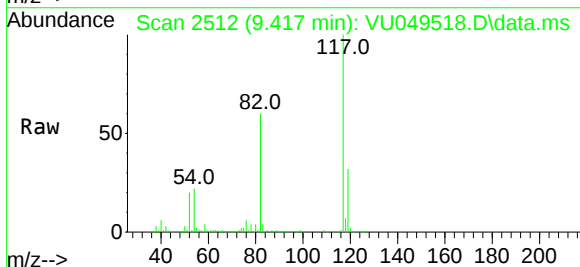
Tgt Ion: 117 Resp: 415518

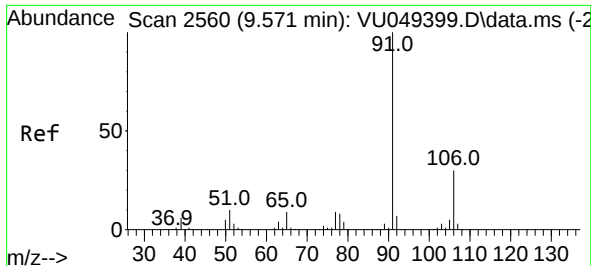
Ion Ratio Lower Upper

117 100

82 59.1 41.7 62.5

119 31.9 25.7 38.5

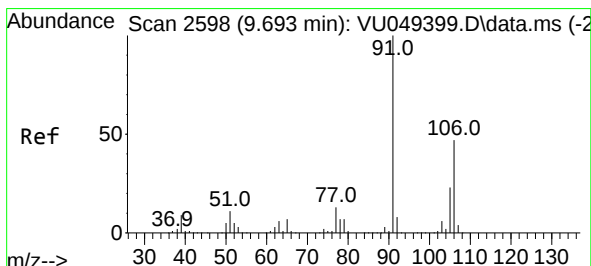
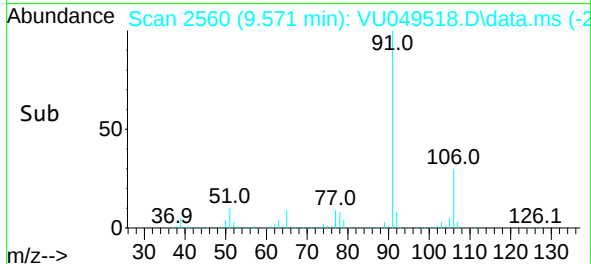
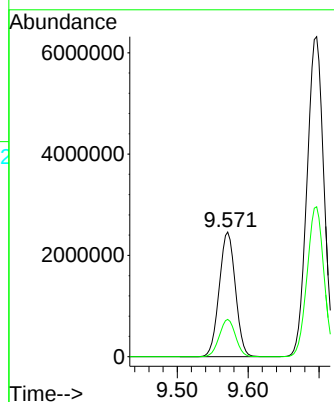
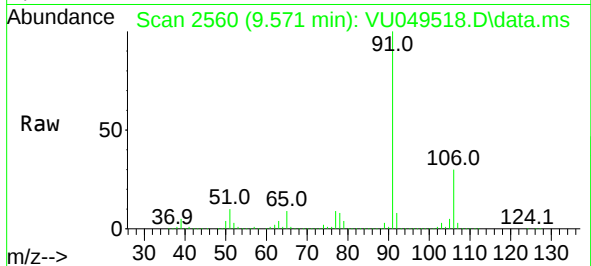




#67
Ethyl Benzene
Concen: 250.118 ug/l
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

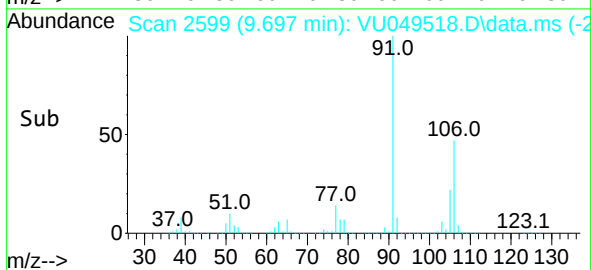
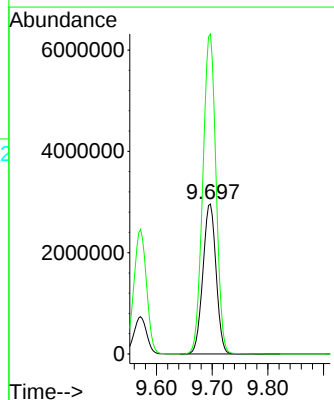
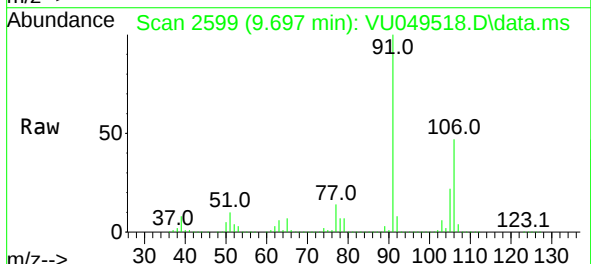
Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

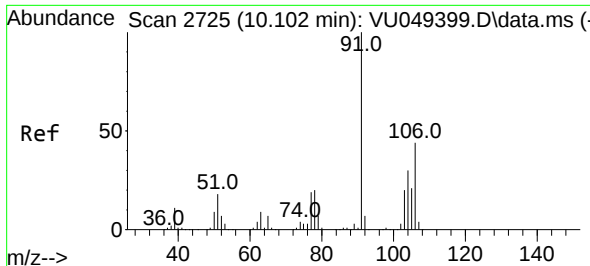
Tgt Ion: 91 Resp: 3900596
Ion Ratio Lower Upper
91 100
106 29.9 25.6 38.4



#68
m/p-Xylenes
Concen: 842.986 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.003 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion: 106 Resp: 4864216
Ion Ratio Lower Upper
106 100
91 213.5 157.2 235.8

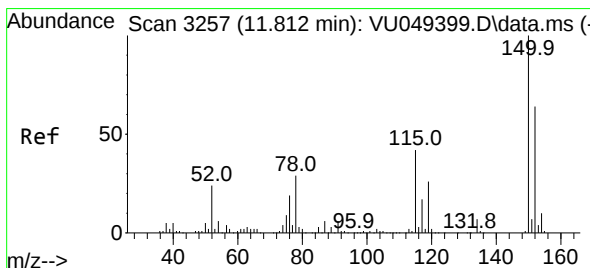
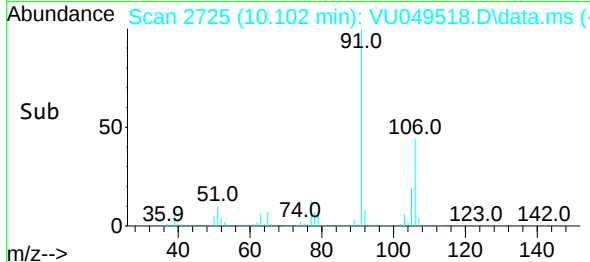
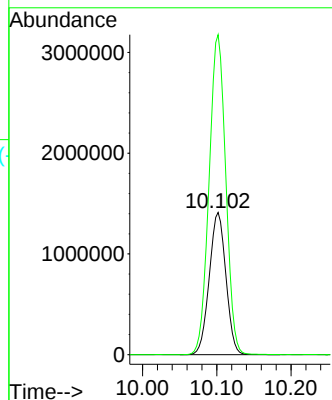
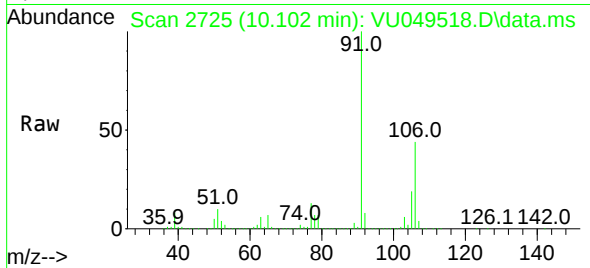




#69
o-Xylene
Concen: 382.188 ug/l
RT: 10.102 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

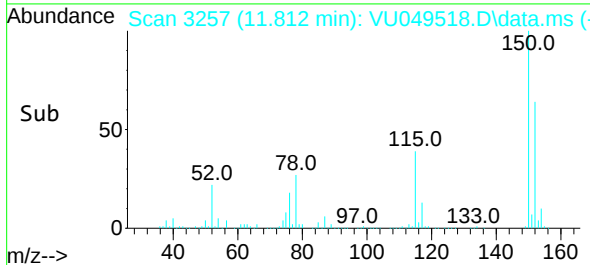
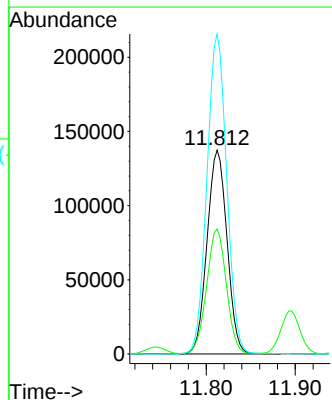
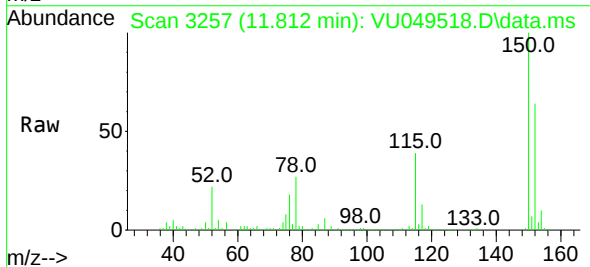
Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

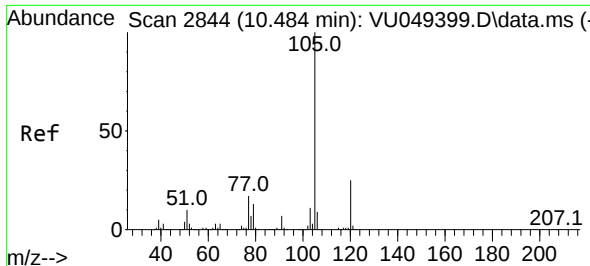
Tgt Ion:106 Resp: 2189325
Ion Ratio Lower Upper
106 100
91 225.8 103.5 310.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 3257
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion:152 Resp: 213446
Ion Ratio Lower Upper
152 100
115 60.8 37.0 110.9
150 155.4 0.0 342.2

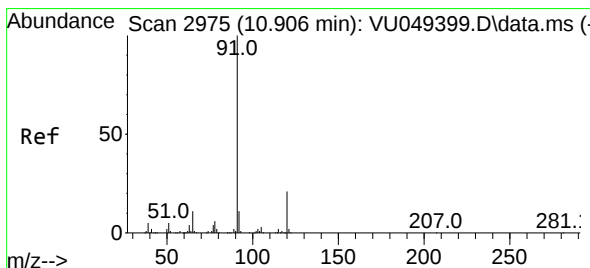
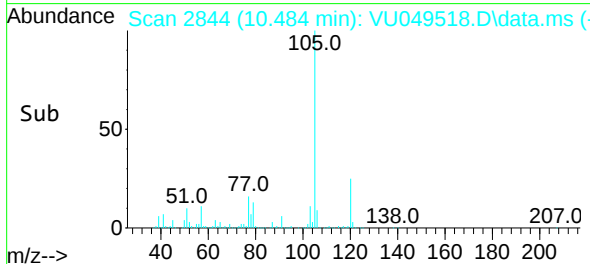
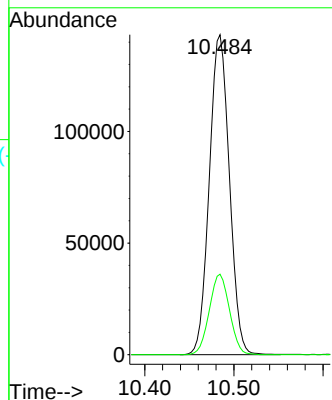
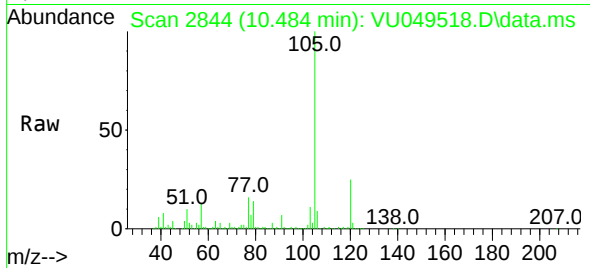




#73
Isopropylbenzene
Concen: 14.743 ug/l
RT: 10.484 min Scan# 2844
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

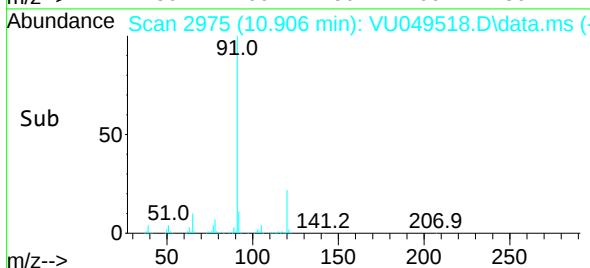
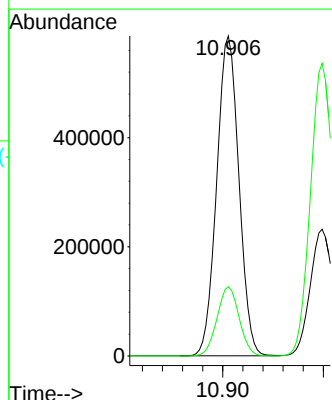
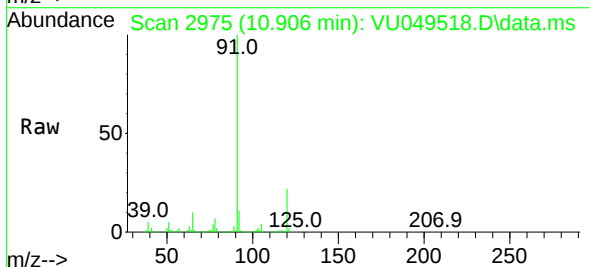
Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

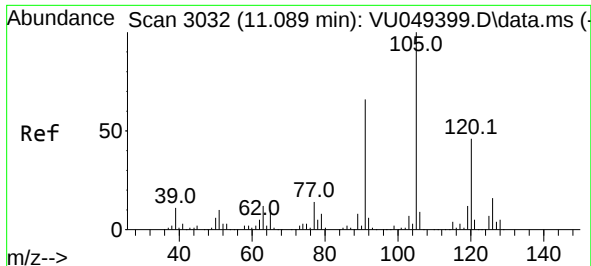
Tgt Ion:105 Resp: 224174
Ion Ratio Lower Upper
105 100
120 25.3 13.8 41.4



#78
n-propylbenzene
Concen: 48.616 ug/l
RT: 10.906 min Scan# 2975
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion: 91 Resp: 898224
Ion Ratio Lower Upper
91 100
120 21.5 11.9 35.5

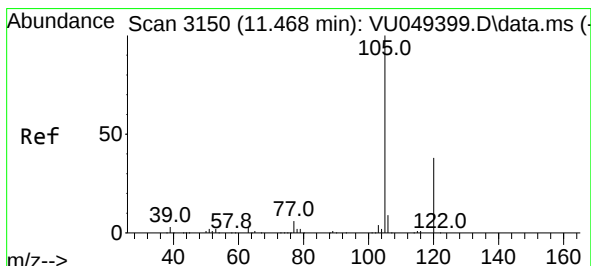
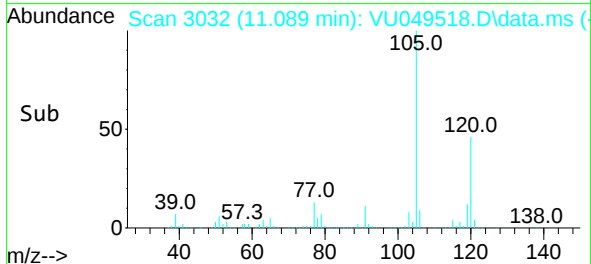
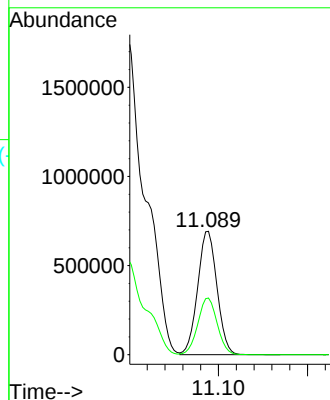
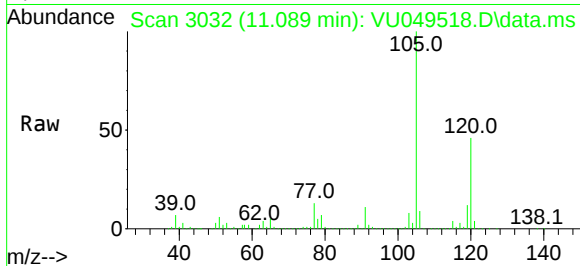




#80
1,3,5-Trimethylbenzene
Concen: 78.569 ug/l
RT: 11.089 min Scan# 3032
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

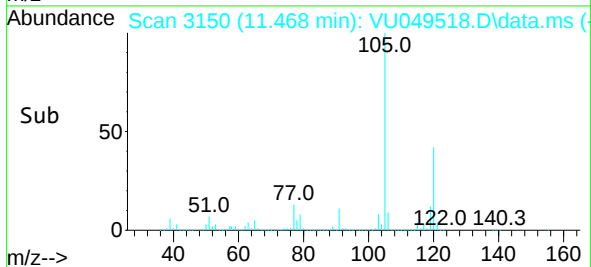
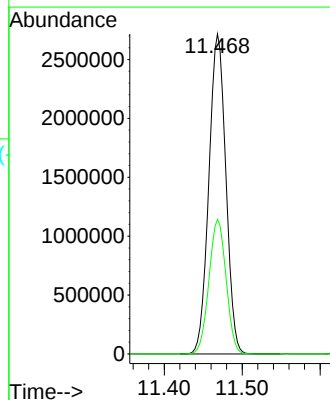
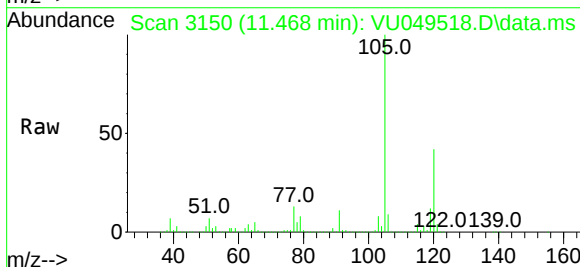
Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

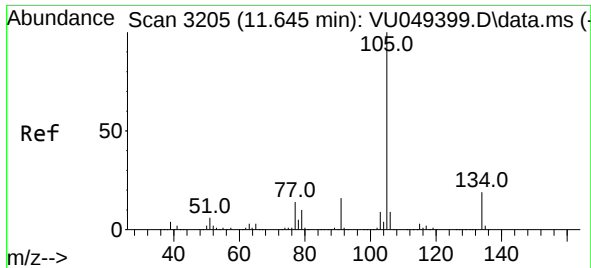
Tgt Ion:105 Resp: 1042943
Ion Ratio Lower Upper
105 100
120 46.1 25.3 75.9



#84
1,2,4-Trimethylbenzene
Concen: 315.403 ug/l
RT: 11.468 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion:105 Resp: 4113065
Ion Ratio Lower Upper
105 100
120 42.5 23.4 70.3

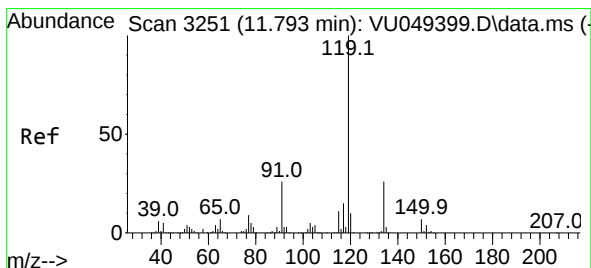
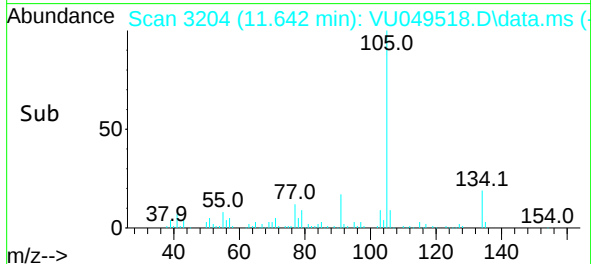
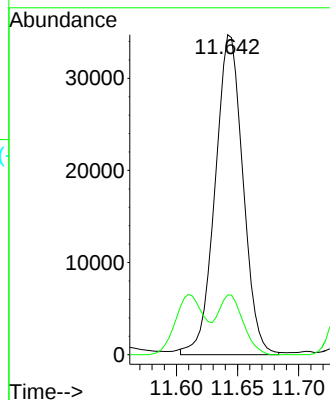
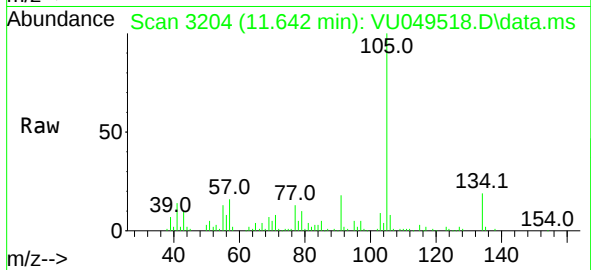




#85
 sec-Butylbenzene
 Concen: 3.349 ug/l m
 RT: 11.642 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VU049518.D
 Acq: 29 Jun 2022 17:31

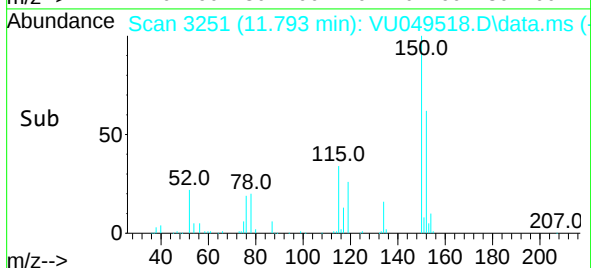
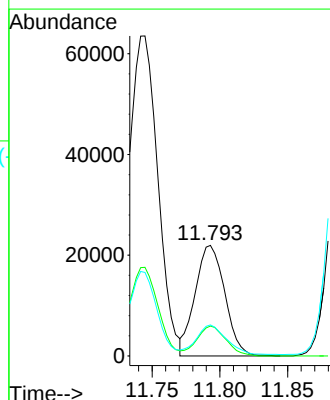
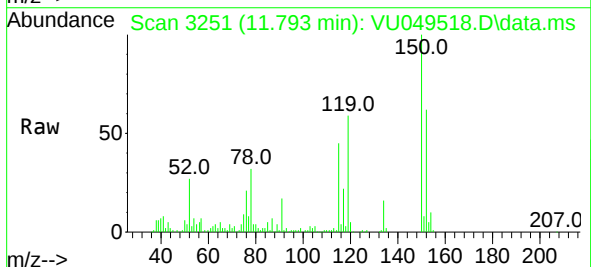
Instrument :
 MSVOA_U
 ClientSampleId :
 31052-WATER

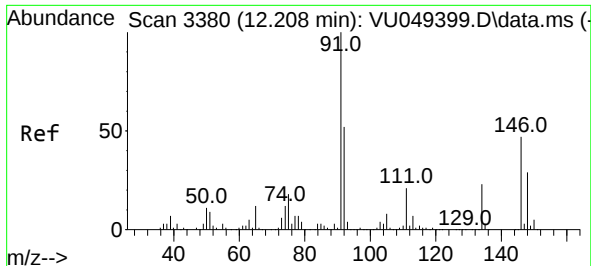
Tgt Ion:105 Resp: 54977
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.1#



#86
 p-Isopropyltoluene
 Concen: 2.521 ug/l
 RT: 11.793 min Scan# 3251
 Delta R.T. 0.000 min
 Lab File: VU049518.D
 Acq: 29 Jun 2022 17:31

Tgt Ion:119 Resp: 33469
 Ion Ratio Lower Upper
 119 100
 134 26.4 13.5 40.4
 91 26.6 11.2 33.5

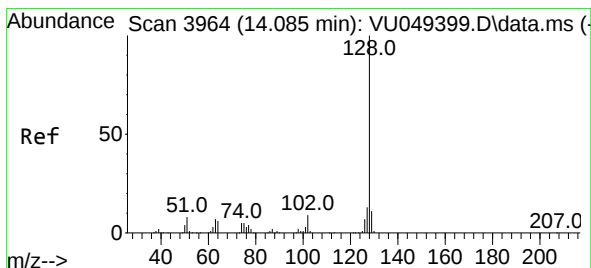
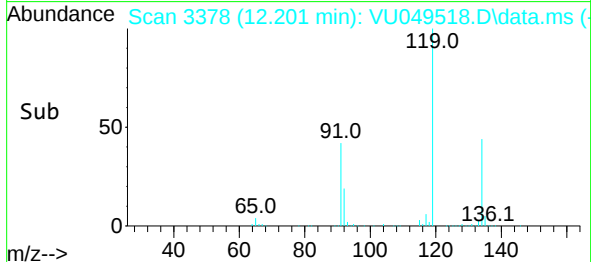
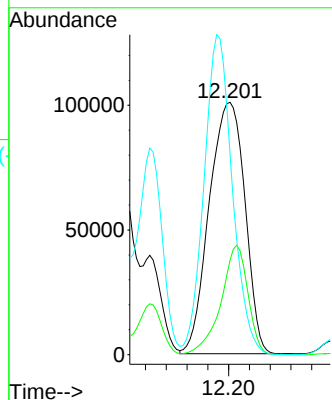
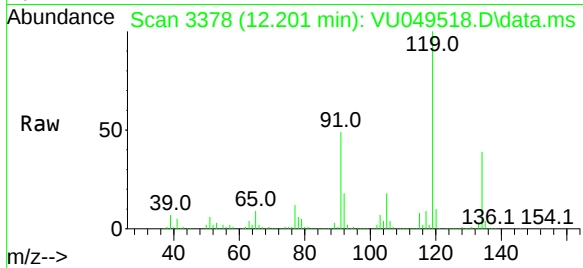




#89
n-Butylbenzene
Concen: 19.574 ug/l
RT: 12.201 min Scan# 311
Delta R.T. -0.006 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Instrument :
MSVOA_U
ClientSampleId :
31052-WATER

Tgt Ion: 91 Resp: 240534
Ion Ratio Lower Upper
91 100
92 32.9 26.2 78.6
134 101.0 13.5 40.4#



#95
Naphthalene
Concen: 50.583 ug/l
RT: 14.086 min Scan# 3964
Delta R.T. 0.000 min
Lab File: VU049518.D
Acq: 29 Jun 2022 17:31

Tgt Ion:128 Resp: 845634
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.9 8.6 13.0

