

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062922\
 Data File : VX029886.D
 Acq On : 30 Jun 2022 02:07
 Operator : JC/MD
 Sample : N3481-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-19

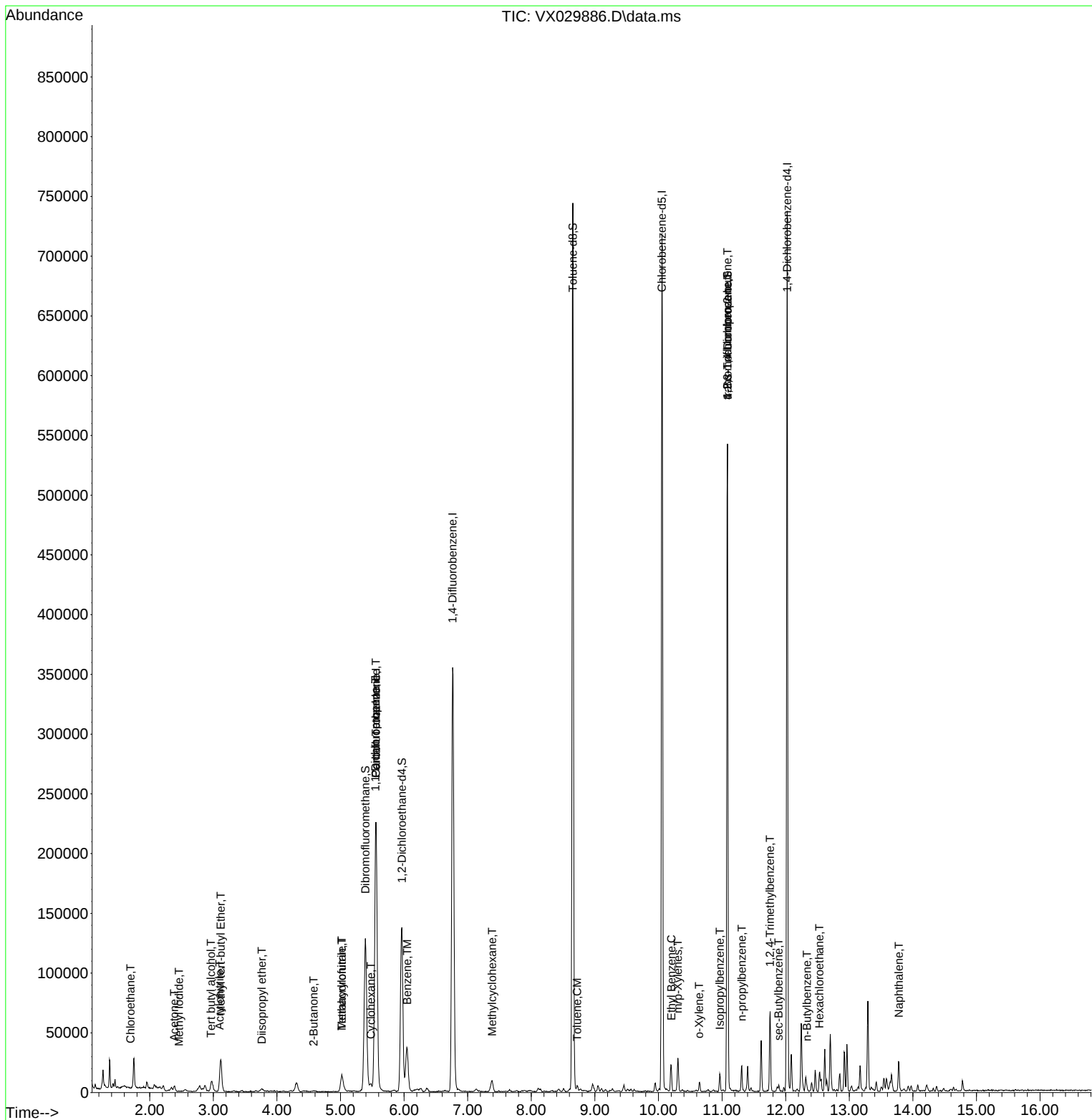
Quant Time: Jun 30 06:27:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 05:54:51 2022
 Response via : Initial Calibration

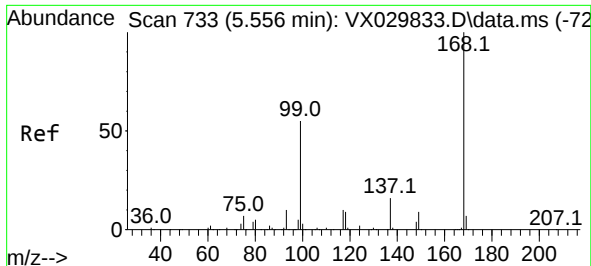
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.556	168	224511	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	385131	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	337225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	147012	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	125675	44.222	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	88.440%
35) Dibromofluoromethane	5.391	113	113683	47.233	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.460%
50) Toluene-d8	8.653	98	447954	49.611	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.220%
62) 4-Bromofluorobenzene	11.085	95	149552	46.856	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.720%
Target Compounds						
					Qvalue	
6) Chloroethane	1.697	64	735	1.426	ug/l #	68
10) Methyl Iodide	2.459	142	155	1.922	ug/l #	60
11) Tert butyl alcohol	2.965	59	12290	16.536	ug/l	97
13) Acrolein	2.209	56	252	Below Cal	#	1
15) Acrylonitrile	3.099	53	491	0.283	ug/l #	28
16) Acetone	2.386	43	5052	3.634	ug/l #	88
19) Methyl tert-butyl Ether	3.117	73	28306	3.626	ug/l	100
22) Diisopropyl ether	3.763	45	2386	0.277	ug/l #	73
25) 2-Butanone	4.574	43	691	0.286	ug/l #	48
29) Tetrahydrofuran	5.019	42	13131	8.268	ug/l	99
31) Cyclohexane	5.477	56	4266	1.077	ug/l #	69
36) 1,1-Dichloropropene	5.550	75	16636	5.197	ug/l #	49
38) Carbon Tetrachloride	5.556	117	21310	7.683	ug/l #	17
39) Methylcyclohexane	7.385	83	4112	1.062	ug/l	95
40) Benzene	6.050	78	45958	4.440	ug/l	97
41) Methacrylonitrile	5.019	41	7774	3.340	ug/l #	46
52) Toluene	8.720	92	1684	0.270	ug/l	92
67) Ethyl Benzene	10.201	91	14329	1.217	ug/l	93
68) m/p-Xylenes	10.305	106	6252	1.384	ug/l	93
69) o-Xylene	10.640	106	1845	0.403	ug/l	90
73) Isopropylbenzene	10.963	105	7120	0.669	ug/l	96
76) 1,2,3-Trichloropropane	11.085	75	69955	19.878	ug/l #	38
78) n-propylbenzene	11.311	91	13055	1.041	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.085	75	69955	63.127	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.756	105	29639	3.350	ug/l	97
85) sec-Butylbenzene	11.890	105	3277	0.297	ug/l	95
89) n-Butylbenzene	12.335	91	2205	0.266	ug/l #	59
90) Hexachloroethane	12.530	117	1081	0.753	ug/l #	16
95) Naphthalene	13.780	128	14922	1.257	ug/l	96

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

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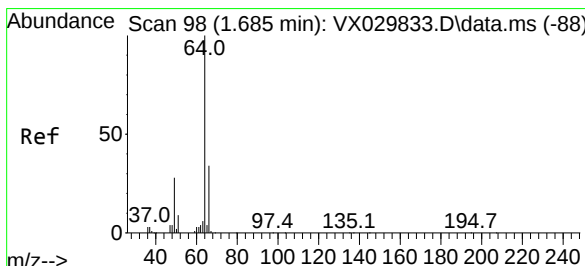
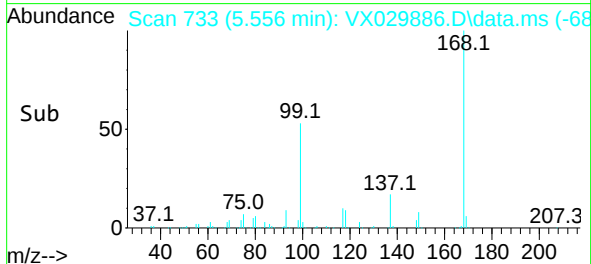
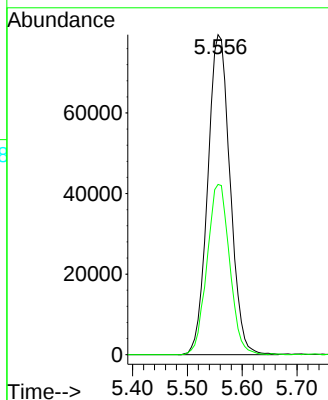
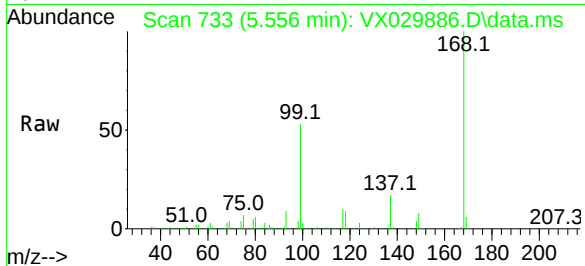




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

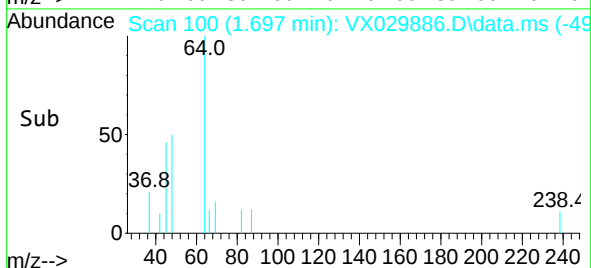
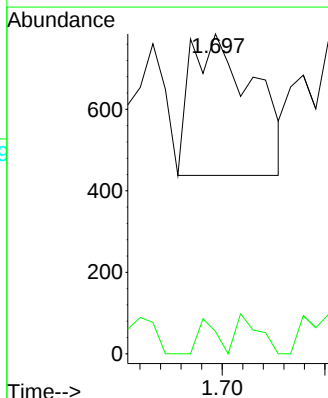
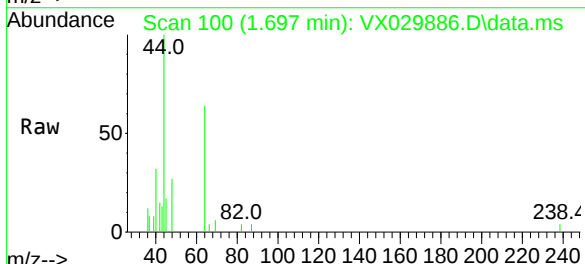
Instrument :
MSVOA_X
ClientSampleId :
MW-19

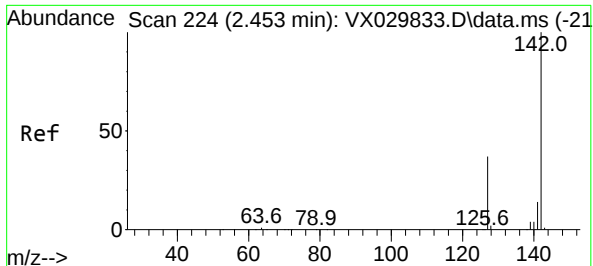
Tgt Ion:168 Resp: 224511
Ion Ratio Lower Upper
168 100
99 53.2 44.0 66.0



#6
Chloroethane
Concen: 1.426 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.012 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion: 64 Resp: 735
Ion Ratio Lower Upper
64 100
66 15.9 27.2 40.8#

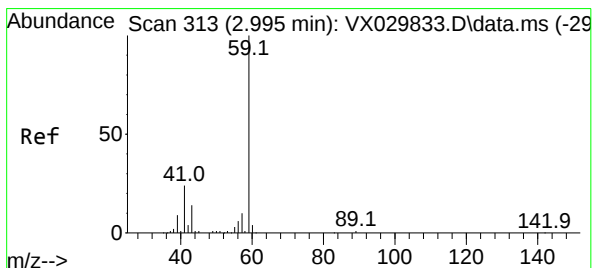
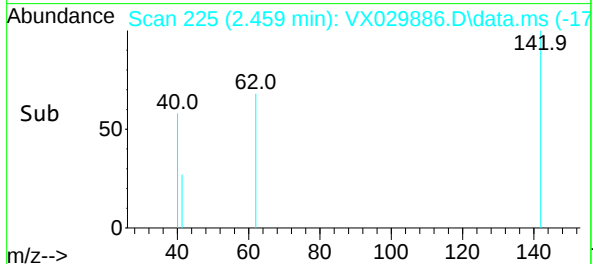
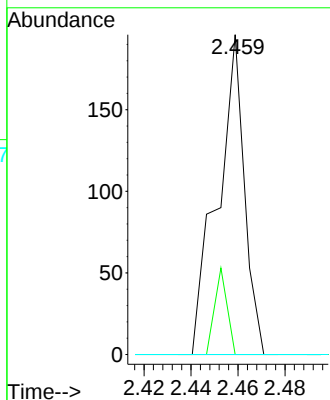
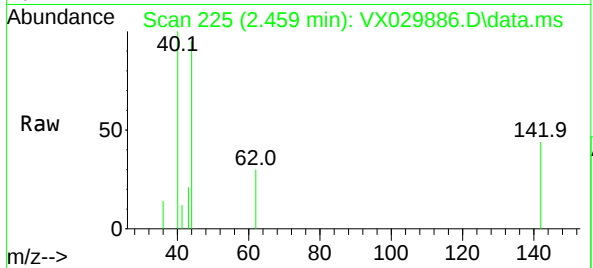




#10
Methyl Iodide
Concen: 1.922 ug/l
RT: 2.459 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

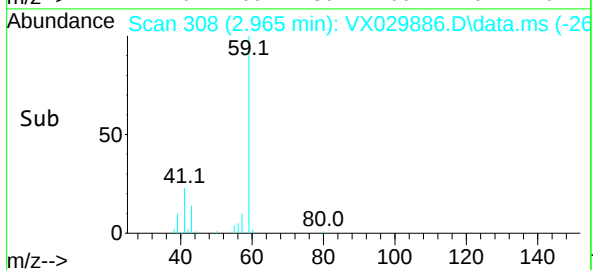
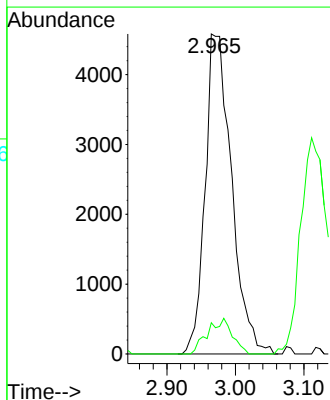
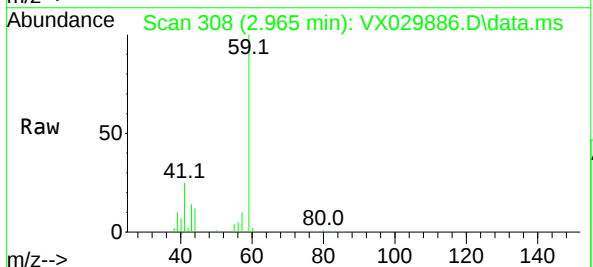
Instrument :
MSVOA_X
ClientSampleId :
MW-19

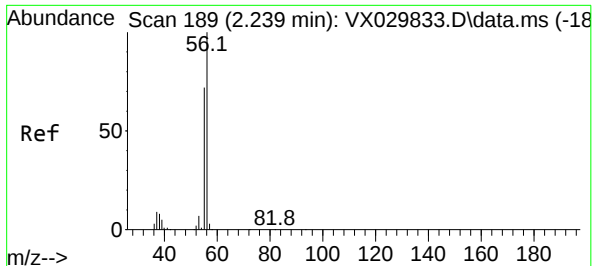
Tgt Ion:142 Resp: 155
Ion Ratio Lower Upper
142 100
127 12.3 30.2 45.2#
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 16.536 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.030 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion: 59 Resp: 12290
Ion Ratio Lower Upper
59 100
57 10.4 7.4 11.2

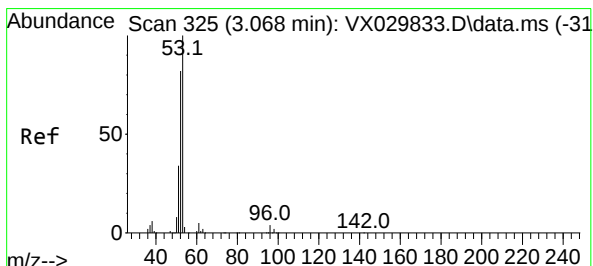
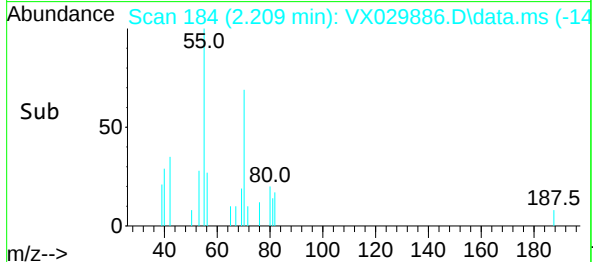
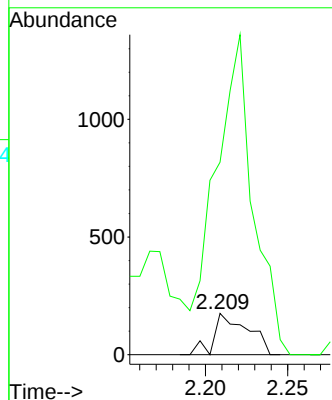
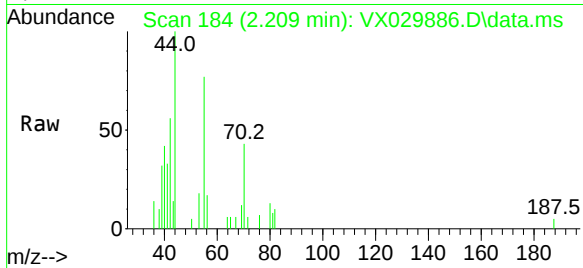




#13
Acrolein
Concen: Below Cal
RT: 2.209 min Scan# 11
Delta R.T. -0.030 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

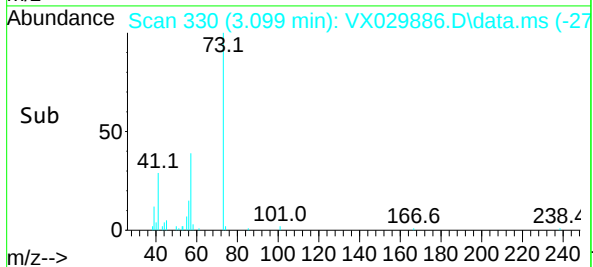
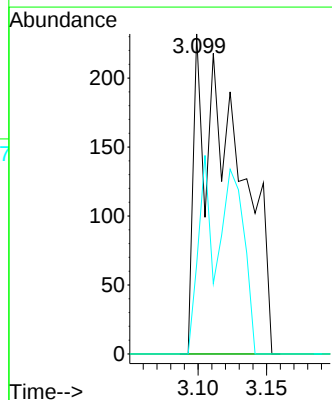
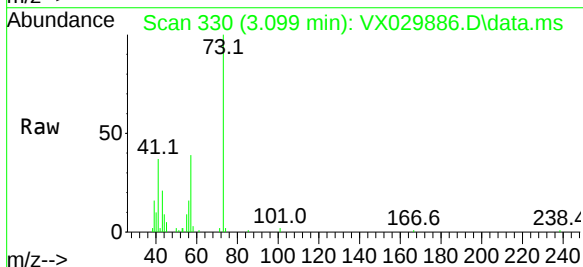
Instrument :
MSVOA_X
ClientSampleId :
MW-19

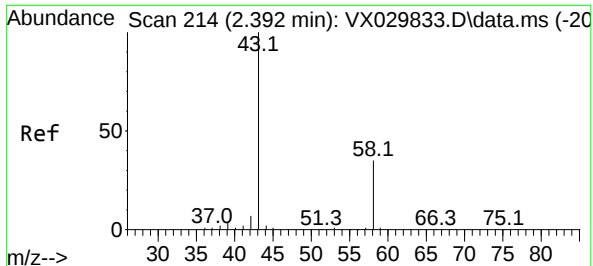
Tgt Ion: 56 Resp: 252
Ion Ratio Lower Upper
56 100
55 855.6 56.6 84.8#



#15
Acrylonitrile
Concen: 0.283 ug/l
RT: 3.099 min Scan# 330
Delta R.T. 0.030 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion: 53 Resp: 491
Ion Ratio Lower Upper
53 100
52 0.0 65.4 98.0#
51 19.3 27.7 41.5#

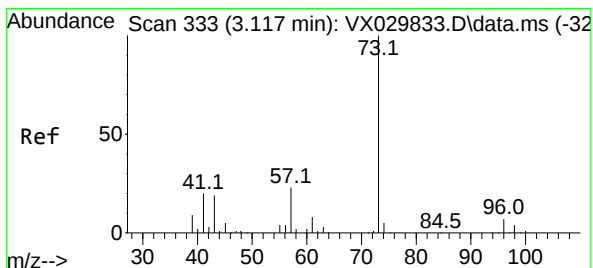
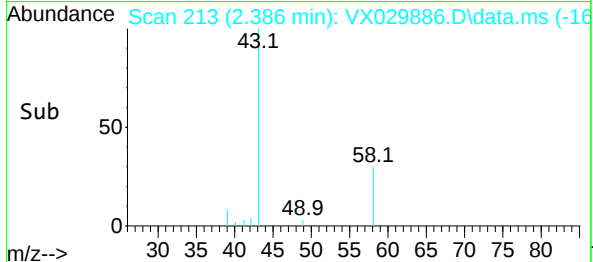
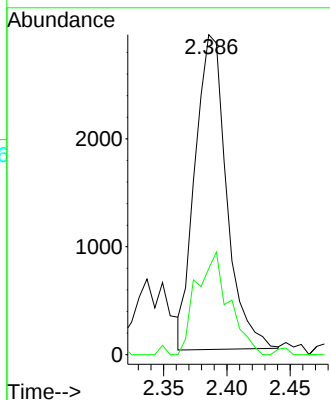
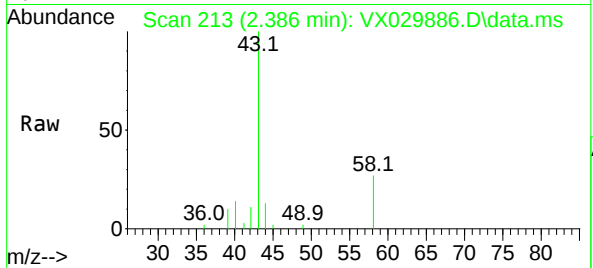




#16
Acetone
Concen: 3.634 ug/l
RT: 2.386 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

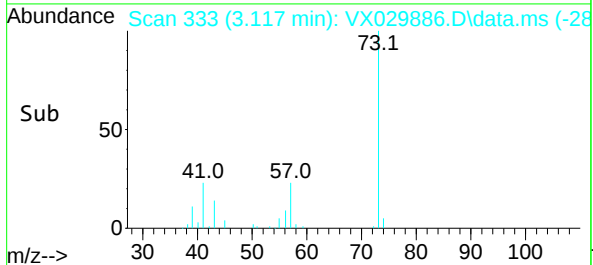
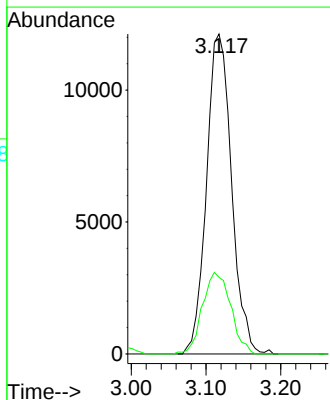
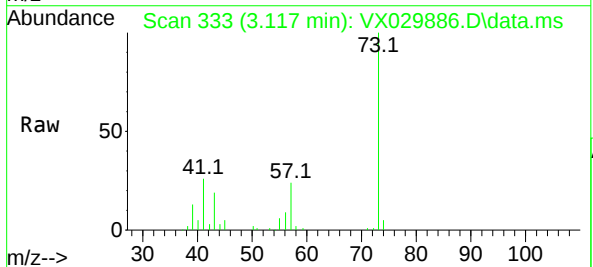
Instrument :
MSVOA_X
ClientSampleId :
MW-19

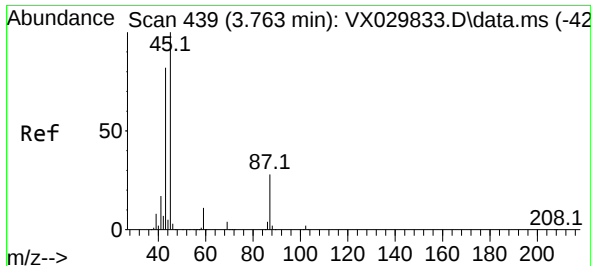
Tgt Ion: 43 Resp: 5052
Ion Ratio Lower Upper
43 100
58 27.6 27.7 41.5#



#19
Methyl tert-butyl Ether
Concen: 3.626 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

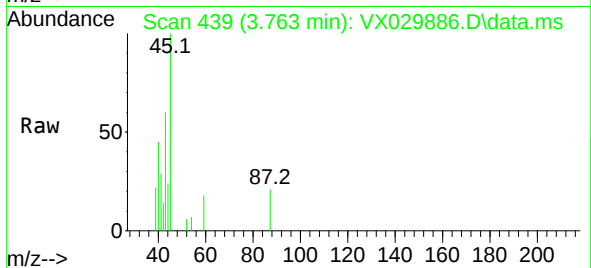
Tgt Ion: 73 Resp: 28306
Ion Ratio Lower Upper
73 100
57 23.9 19.0 28.6



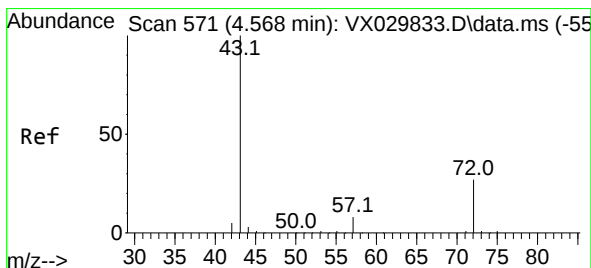
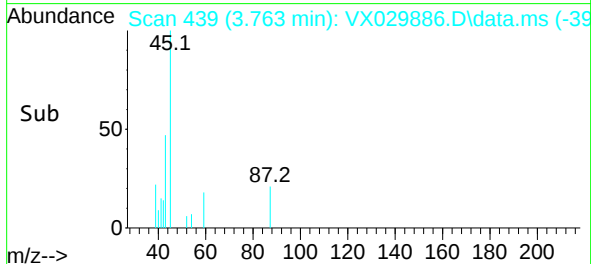
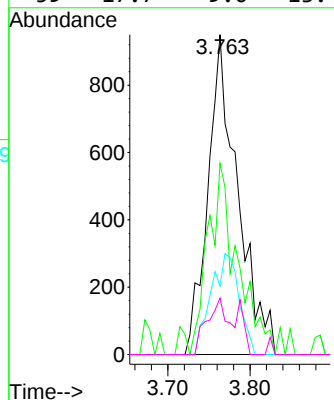


#22
Diisopropyl ether
Concen: 0.277 ug/l
RT: 3.763 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19

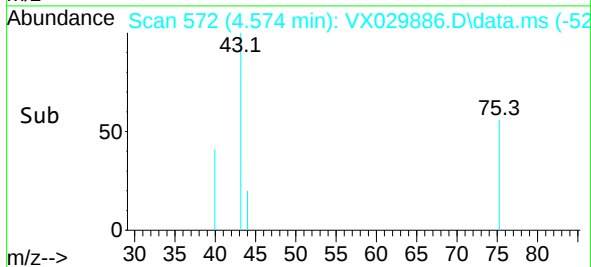
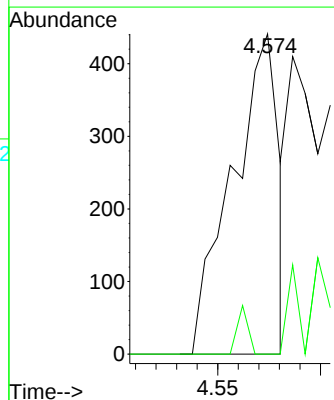
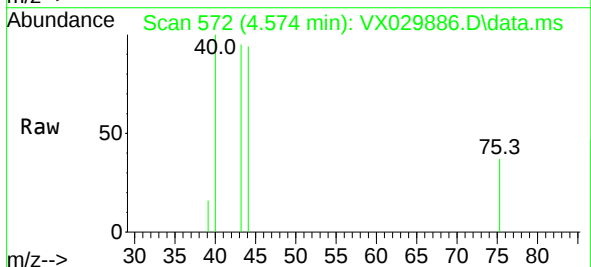


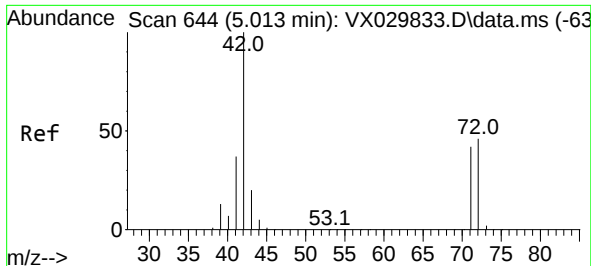
Tgt Ion:	45	Resp:	2386
Ion	Ratio	Lower	Upper
45	100		
43	51.4	65.4	98.0#
87	21.5	22.3	33.5#
59	17.7	9.0	13.4#



#25
2-Butanone
Concen: 0.286 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.006 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion:	43	Resp:	691
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.7	32.5#





#29

Tetrahydrofuran

Concen: 8.268 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

Instrument :

MSVOA_X

ClientSampleId :

MW-19

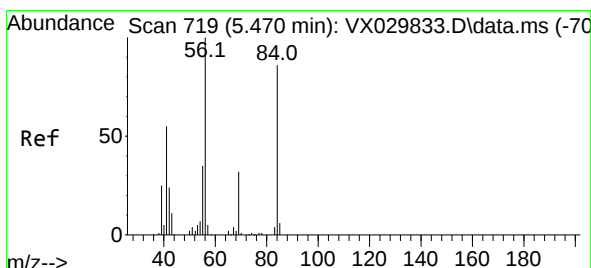
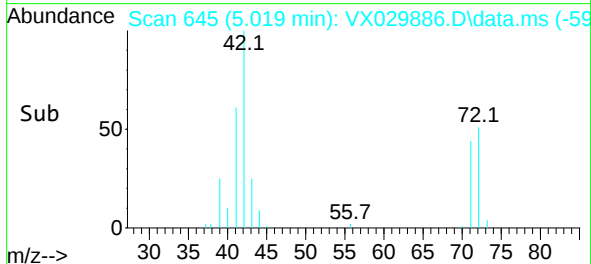
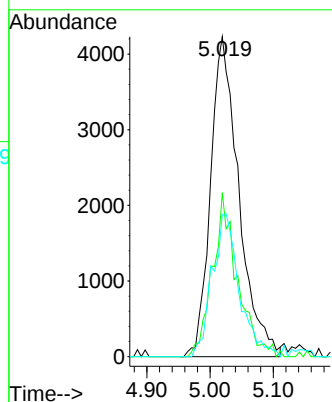
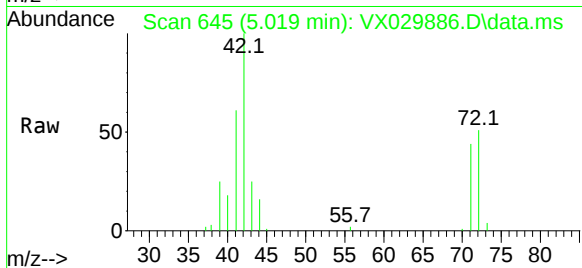
Tgt Ion: 42 Resp: 13131

Ion Ratio Lower Upper

42 100

72 45.1 36.5 54.7

71 43.0 33.9 50.9



#31

Cyclohexane

Concen: 1.077 ug/l

RT: 5.477 min Scan# 720

Delta R.T. 0.006 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

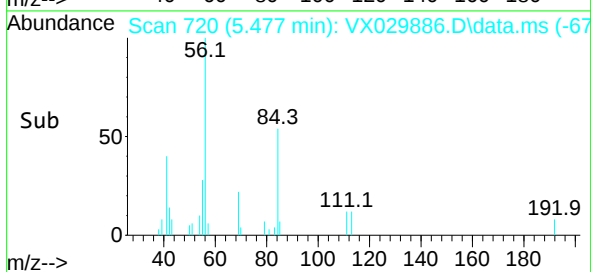
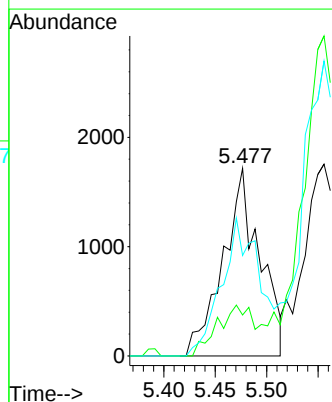
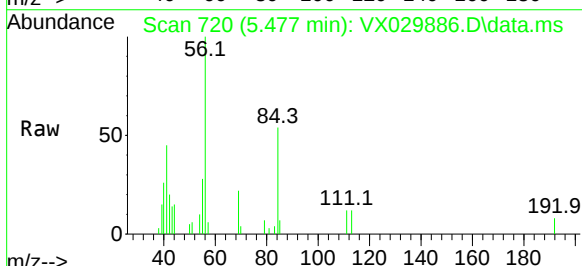
Tgt Ion: 56 Resp: 4266

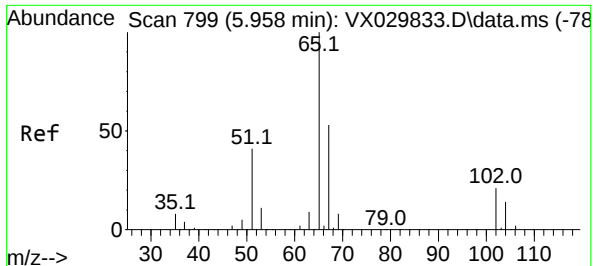
Ion Ratio Lower Upper

56 100

69 21.8 25.4 38.0#

84 53.6 68.9 103.3#





#33

1,2-Dichloroethane-d4

Concen: 44.222 ug/l

RT: 5.964 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

Instrument :

MSVOA_X

ClientSampleId :

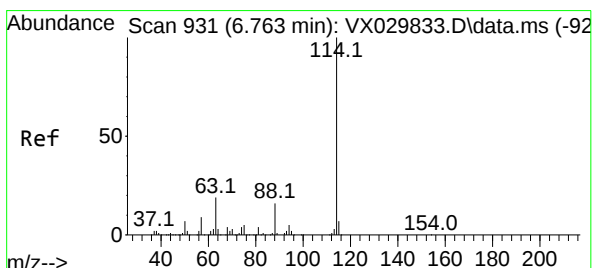
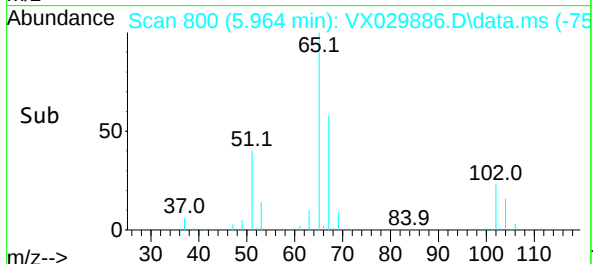
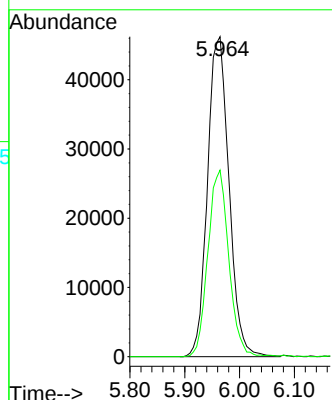
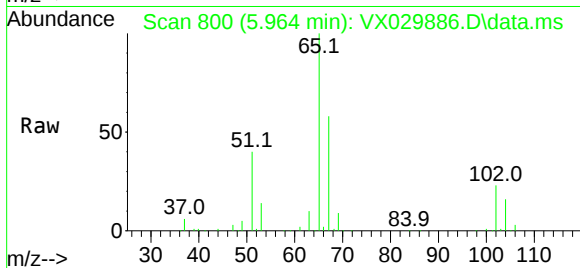
MW-19

Tgt Ion: 65 Resp: 125675

Ion Ratio Lower Upper

65 100

67 56.8 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

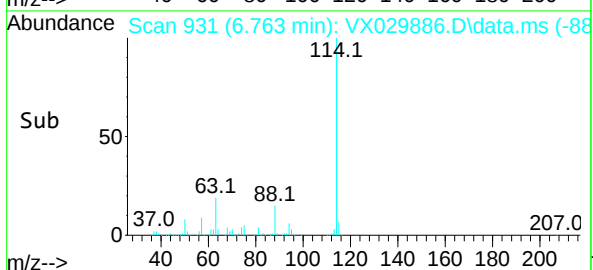
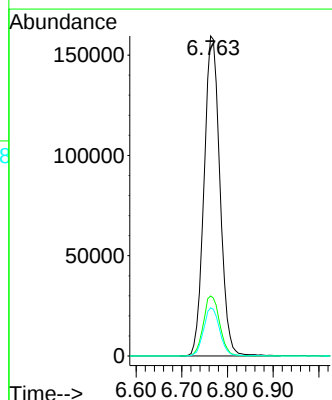
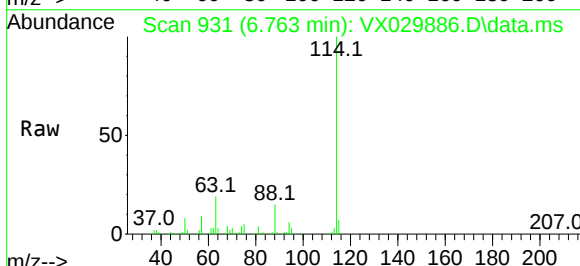
Tgt Ion: 114 Resp: 385131

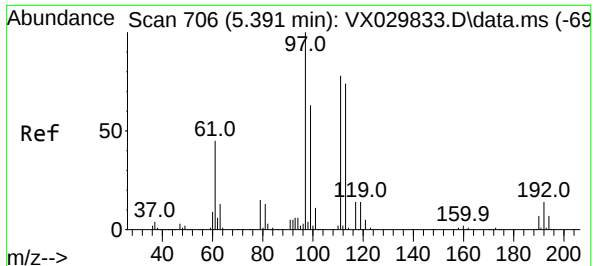
Ion Ratio Lower Upper

114 100

63 18.8 0.0 38.4

88 15.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.233 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

Instrument :

MSVOA_X

ClientSampleId :

MW-19

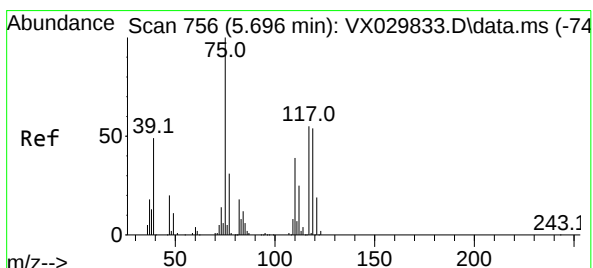
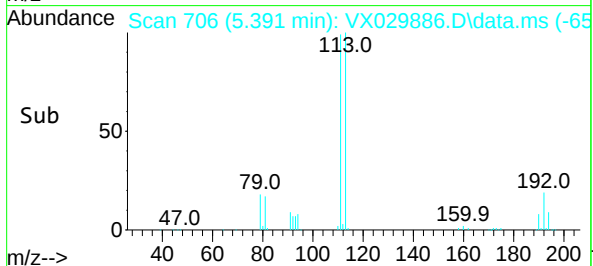
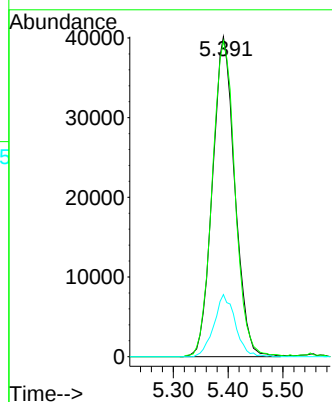
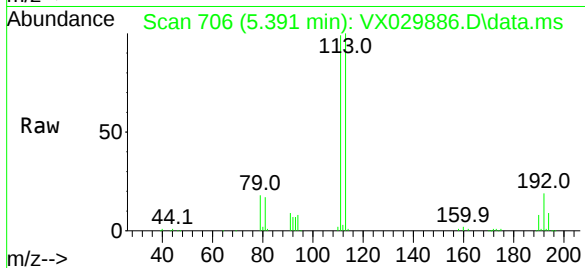
Tgt Ion:113 Resp: 113683

Ion Ratio Lower Upper

113 100

111 100.8 83.2 124.8

192 18.6 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.197 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

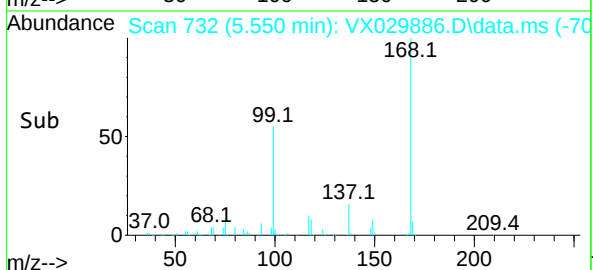
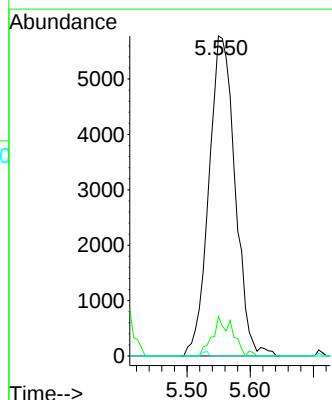
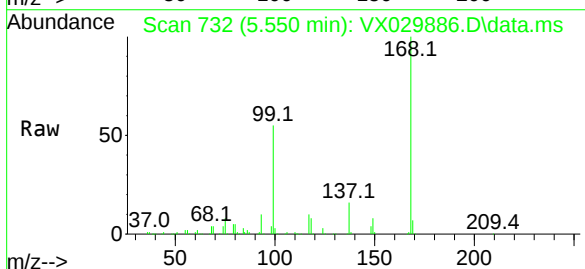
Tgt Ion: 75 Resp: 16636

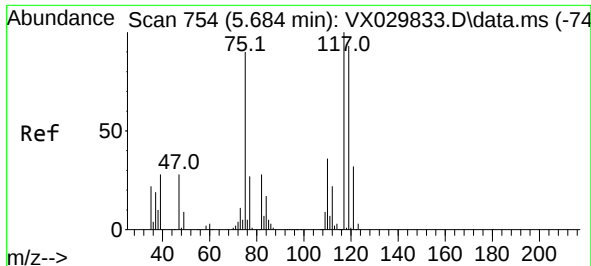
Ion Ratio Lower Upper

75 100

110 9.2 19.3 57.9#

77 0.3 24.4 36.6#

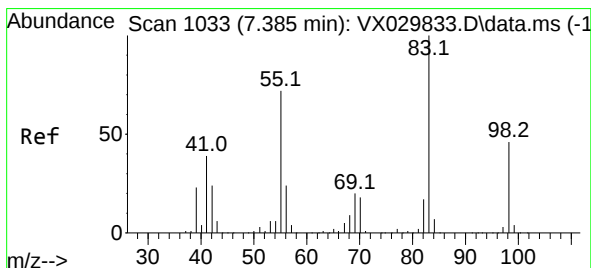
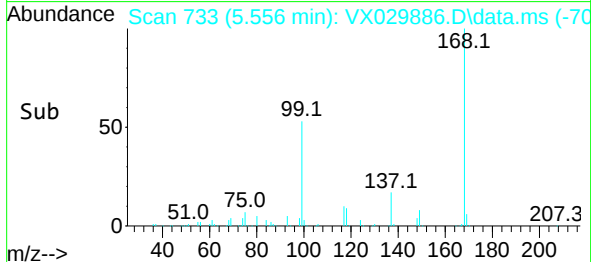
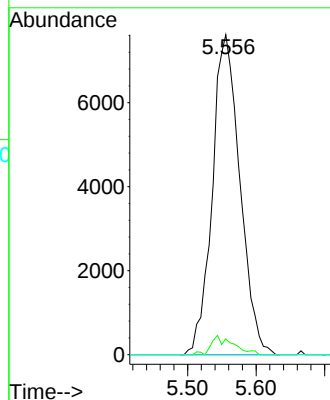
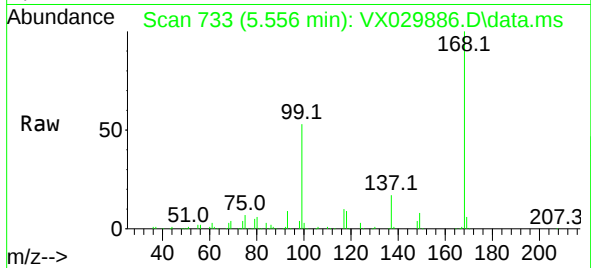




#38
Carbon Tetrachloride
Concen: 7.683 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

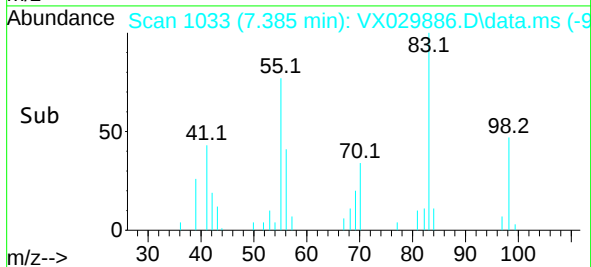
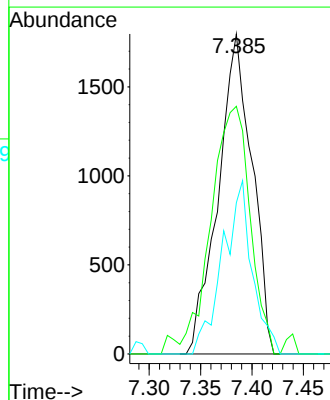
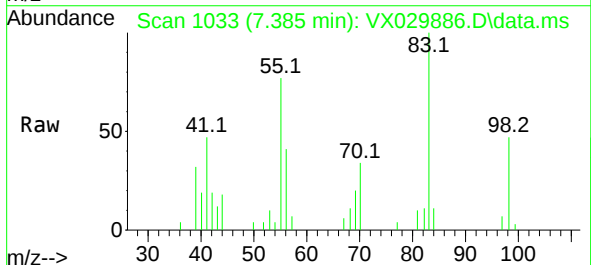
Instrument :
MSVOA_X
ClientSampleId :
MW-19

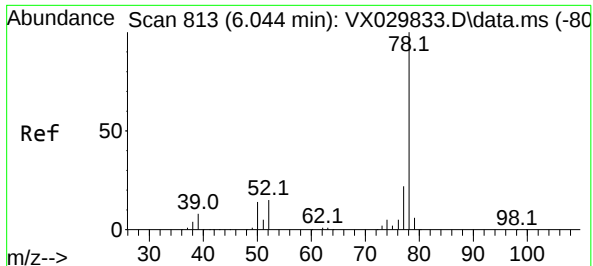
Tgt Ion:117 Resp: 21310
Ion Ratio Lower Upper
117 100
119 5.0 74.1 111.1#
121 0.0 25.8 38.8#



#39
Methylcyclohexane
Concen: 1.062 ug/l
RT: 7.385 min Scan# 1033
Delta R.T. -0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion: 83 Resp: 4112
Ion Ratio Lower Upper
83 100
55 77.4 57.7 86.5
98 47.2 36.5 54.7





#40

Benzene

Concen: 4.440 ug/l

RT: 6.050 min Scan# 81

Delta R.T. 0.006 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

Instrument :

MSVOA_X

ClientSampleId :

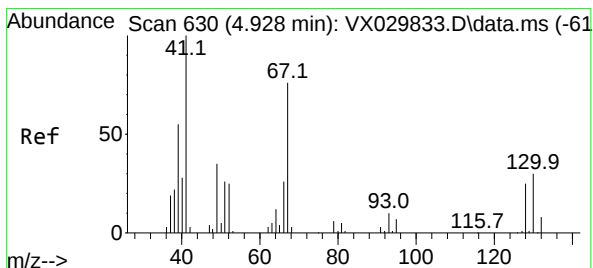
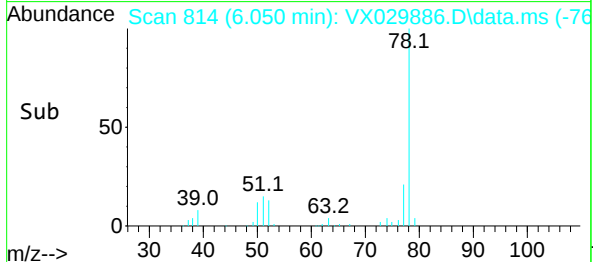
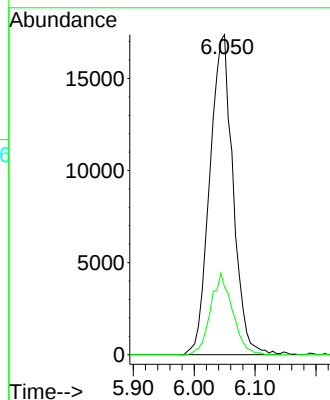
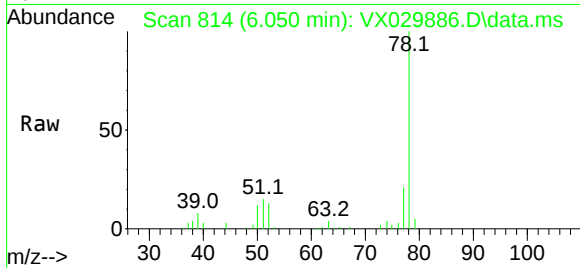
MW-19

Tgt Ion: 78 Resp: 45958

Ion Ratio Lower Upper

78 100

77 21.0 18.0 27.0



#41

Methacrylonitrile

Concen: 3.340 ug/l

RT: 5.019 min Scan# 645

Delta R.T. 0.091 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

Tgt Ion: 41 Resp: 7774

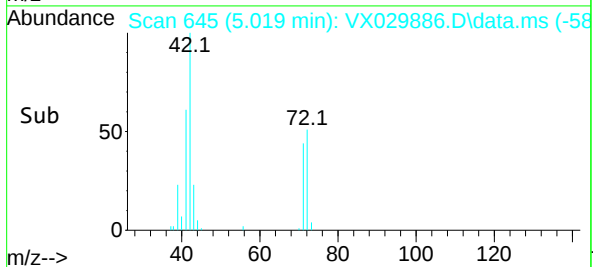
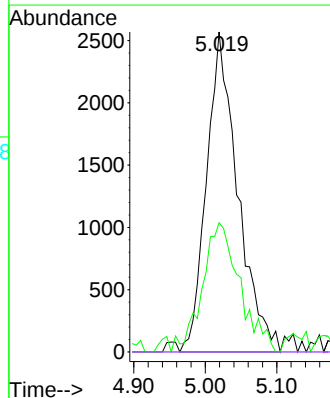
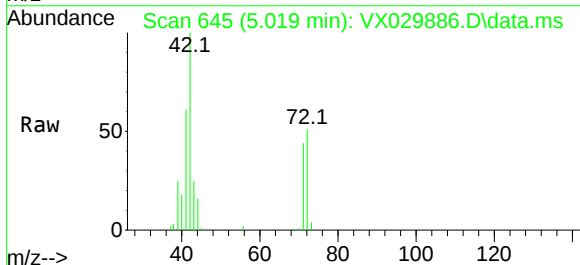
Ion Ratio Lower Upper

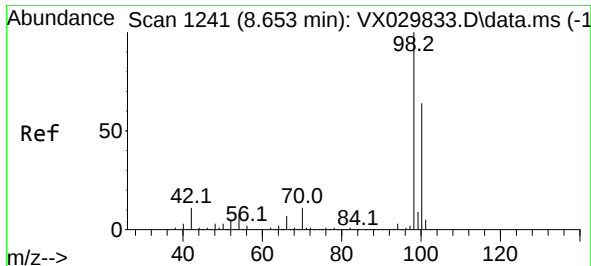
41 100

39 48.3 42.9 64.3

67 0.0 60.1 90.1#

52 0.0 22.6 34.0#

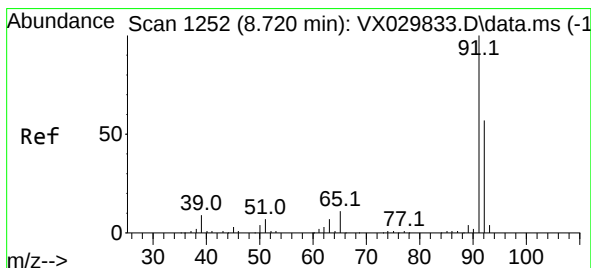
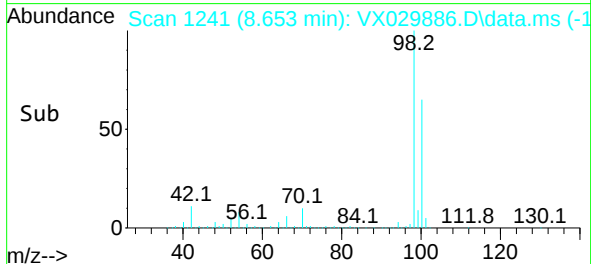
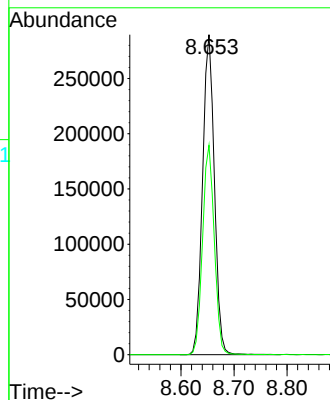
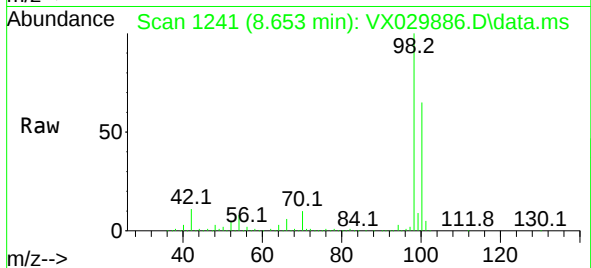




#50
Toluene-d8
Concen: 49.611 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

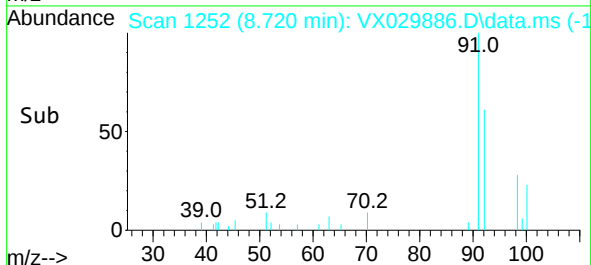
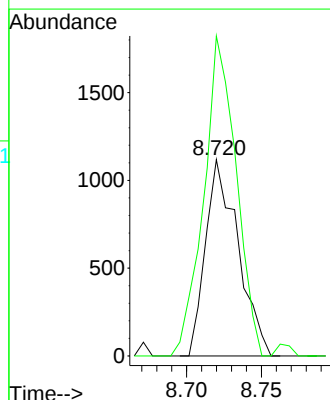
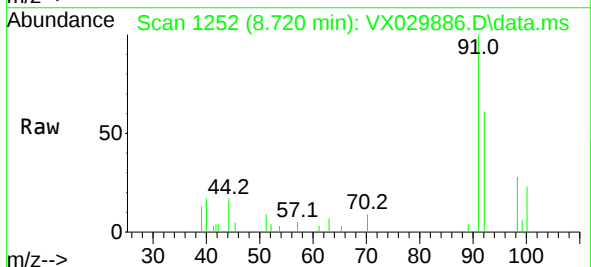
Instrument :
MSVOA_X
ClientSampleId :
MW-19

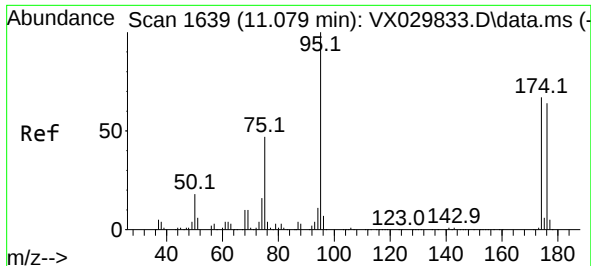
Tgt Ion: 98 Resp: 447954
Ion Ratio Lower Upper
98 100
100 65.1 52.3 78.5



#52
Toluene
Concen: 0.270 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion: 92 Resp: 1684
Ion Ratio Lower Upper
92 100
91 162.9 139.2 208.8





#62

4-Bromofluorobenzene

Concen: 46.856 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

Instrument :

MSVOA_X

ClientSampleId :

MW-19

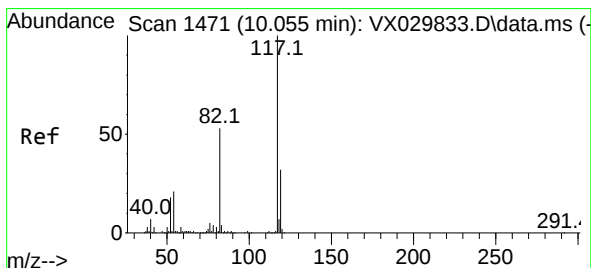
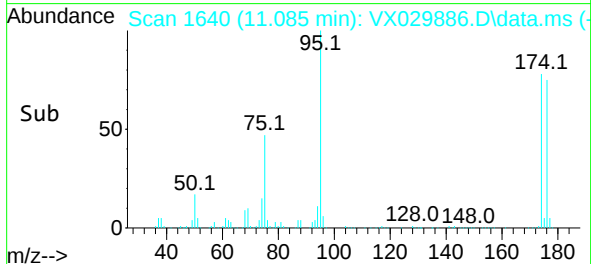
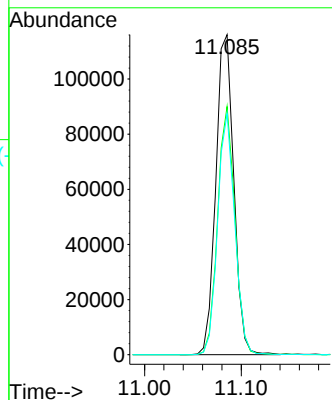
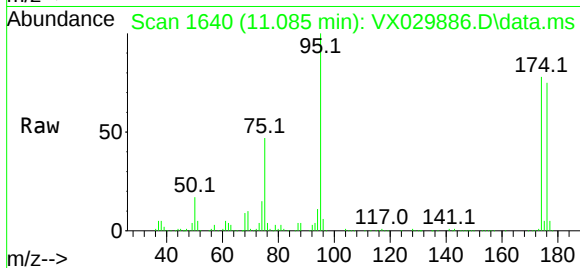
Tgt Ion: 95 Resp: 149552

Ion Ratio Lower Upper

95 100

174 74.5 0.0 149.0

176 71.7 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

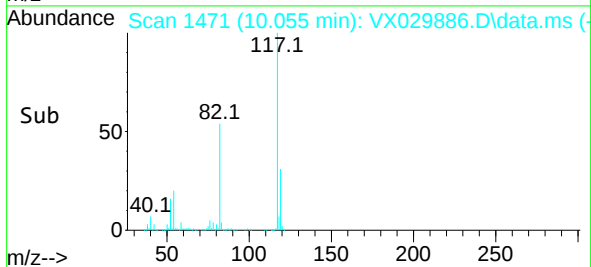
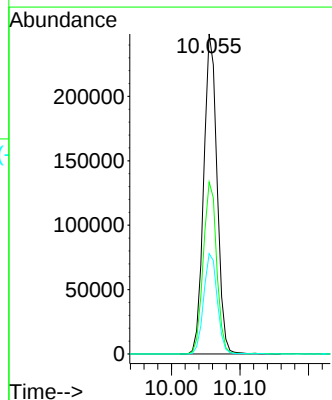
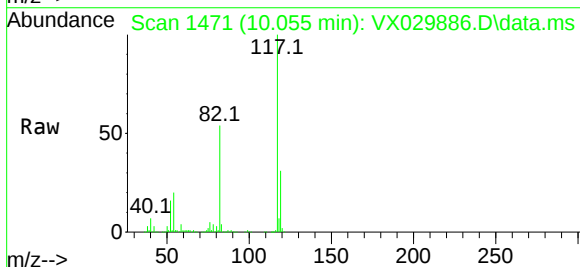
Tgt Ion: 117 Resp: 337225

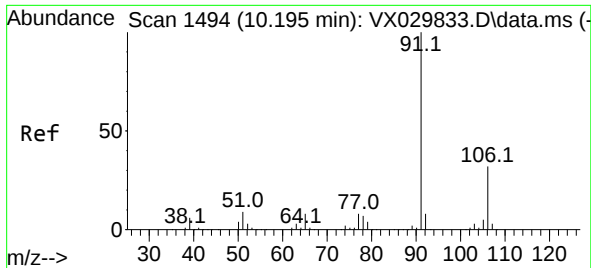
Ion Ratio Lower Upper

117 100

82 53.7 42.7 64.1

119 31.3 25.4 38.2

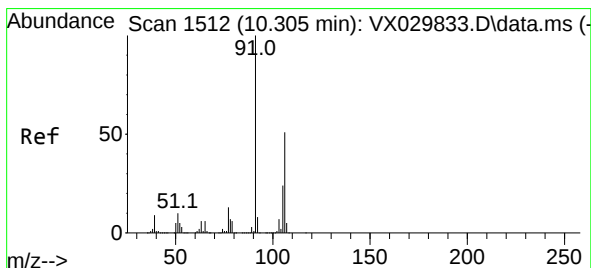
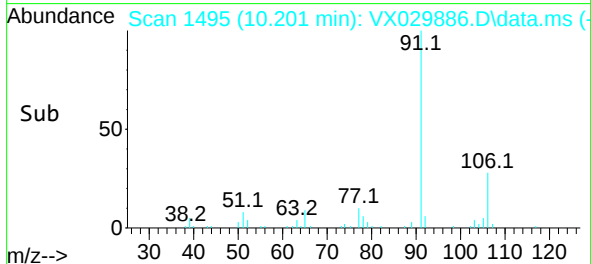
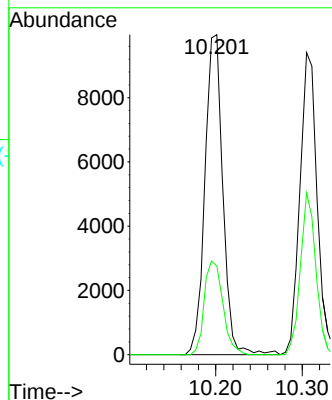
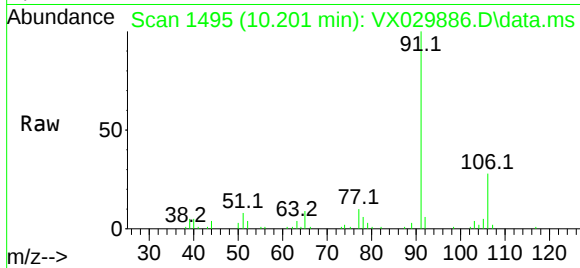




#67
Ethyl Benzene
Concen: 1.217 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.006 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

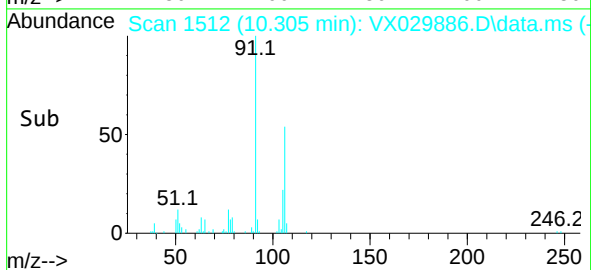
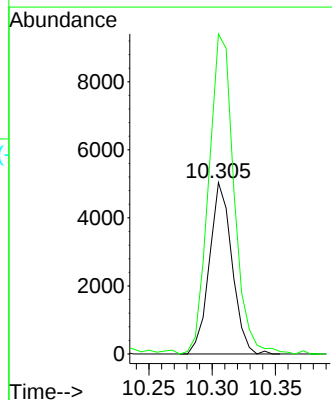
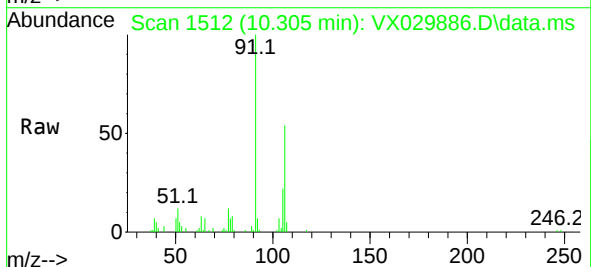
Instrument :
MSVOA_X
ClientSampleId :
MW-19

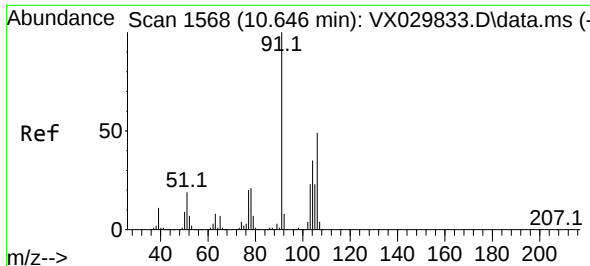
Tgt Ion: 91 Resp: 14329
Ion Ratio Lower Upper
91 100
106 27.7 25.5 38.3



#68
m/p-Xylenes
Concen: 1.384 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion: 106 Resp: 6252
Ion Ratio Lower Upper
106 100
91 209.0 158.2 237.4

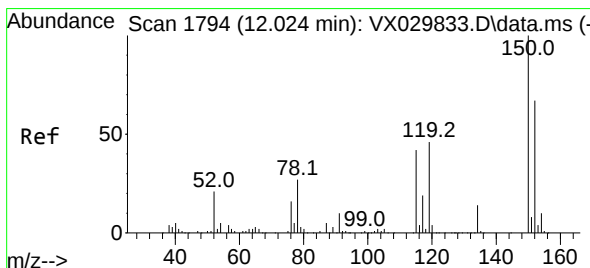
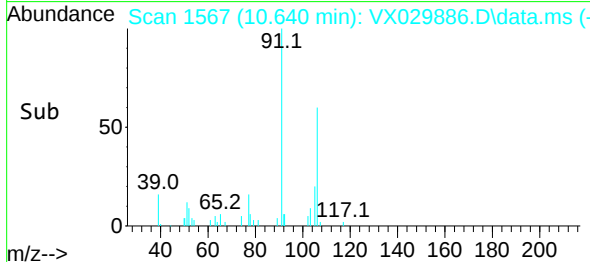
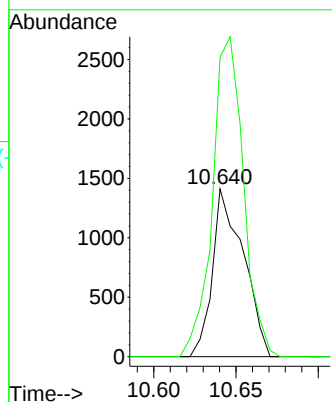
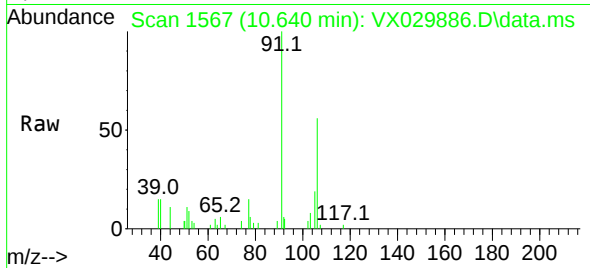




#69
o-Xylene
Concen: 0.403 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

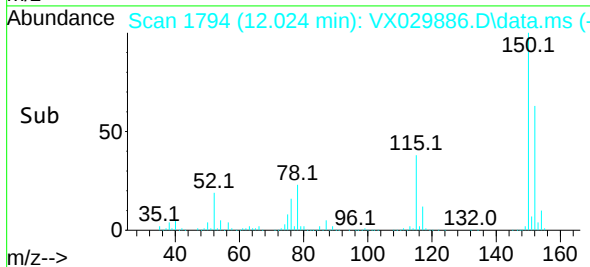
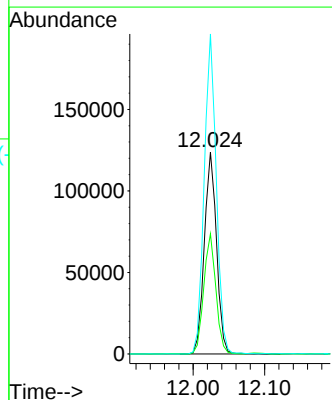
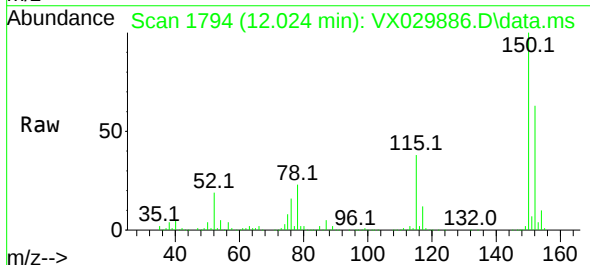
Instrument :
MSVOA_X
ClientSampleId :
MW-19

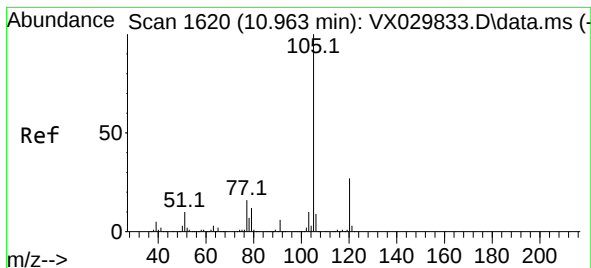
Tgt Ion:106 Resp: 1845
Ion Ratio Lower Upper
106 100
91 191.6 103.8 311.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion:152 Resp: 147012
Ion Ratio Lower Upper
152 100
115 58.9 40.5 121.5
150 156.8 0.0 347.0





#73

Isopropylbenzene

Concen: 0.669 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

Instrument :

MSVOA_X

ClientSampleId :

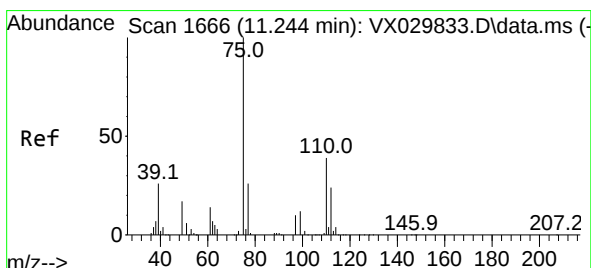
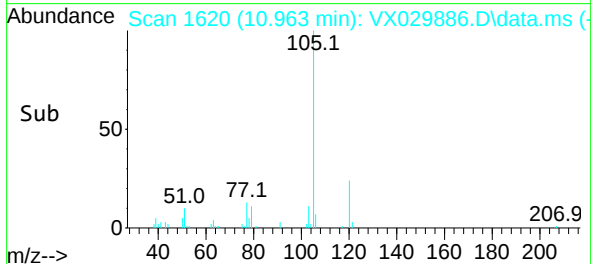
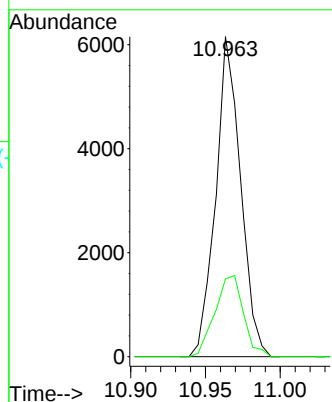
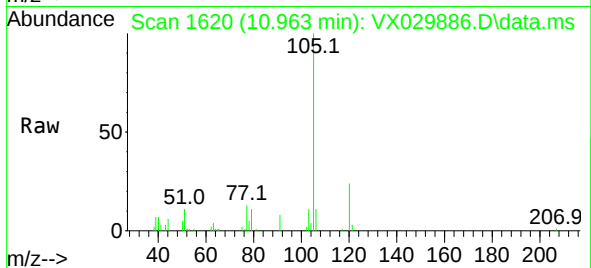
MW-19

Tgt Ion:105 Resp: 7120

Ion Ratio Lower Upper

105 100

120 29.0 13.5 40.4



#76

1,2,3-Trichloropropane

Concen: 19.878 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. -0.159 min

Lab File: VX029886.D

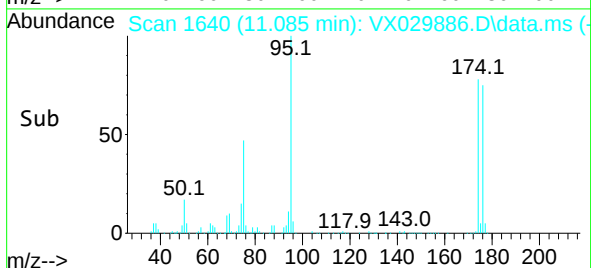
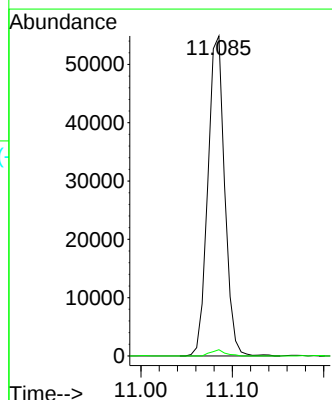
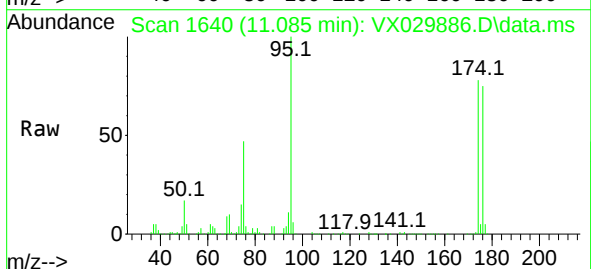
Acq: 30 Jun 2022 02:07

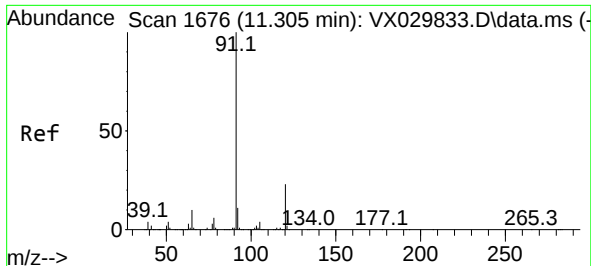
Tgt Ion: 75 Resp: 69955

Ion Ratio Lower Upper

75 100

77 1.7 19.8 59.3#

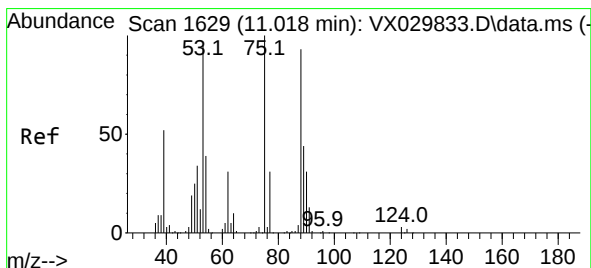
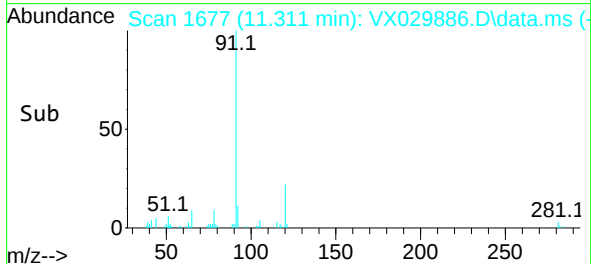
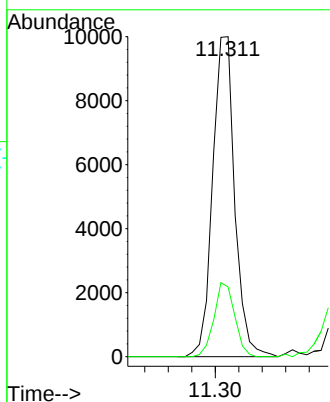
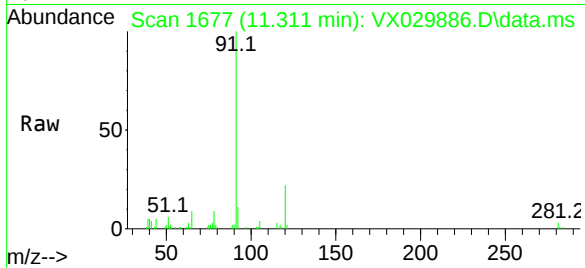




#78
n-propylbenzene
Concen: 1.041 ug/l
RT: 11.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

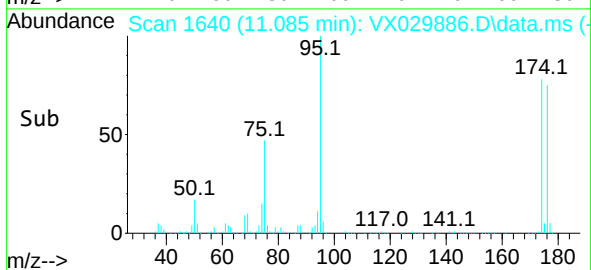
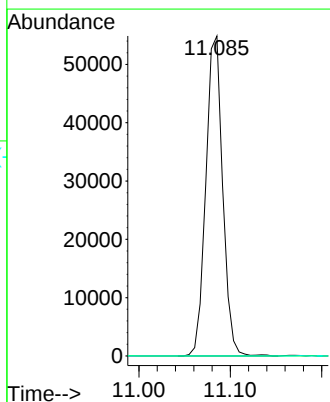
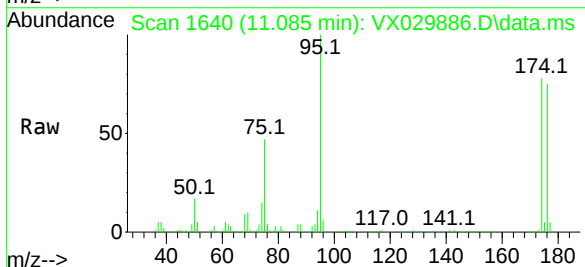
Instrument :
MSVOA_X
ClientSampleId :
MW-19

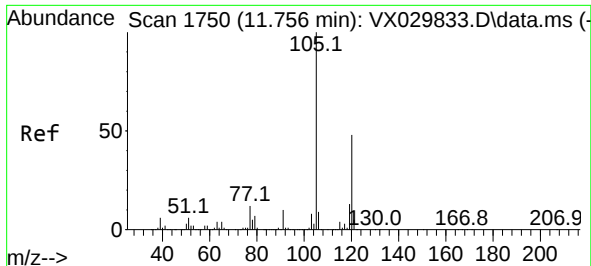
Tgt Ion: 91 Resp: 13055
Ion Ratio Lower Upper
91 100
120 21.6 11.6 34.8



#81
trans-1,4-Dichloro-2-butene
Concen: 63.127 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.067 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion: 75 Resp: 69955
Ion Ratio Lower Upper
75 100
53 0.0 74.2 111.4#
89 0.0 34.8 52.2#

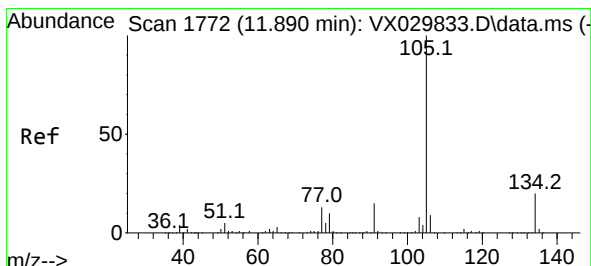
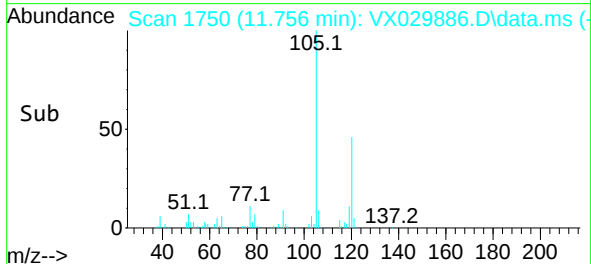
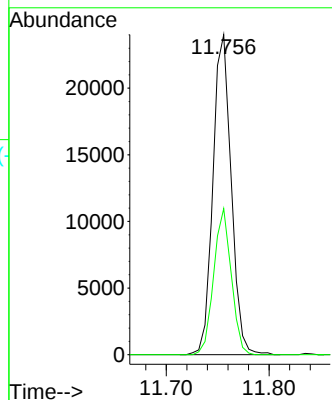
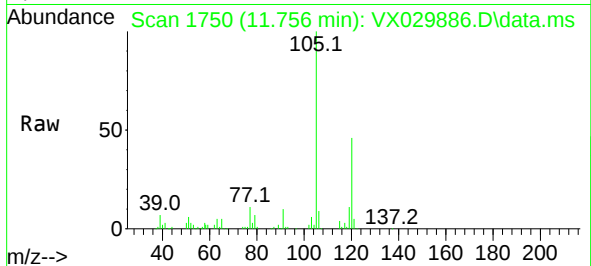




#84
1,2,4-Trimethylbenzene
Concen: 3.350 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

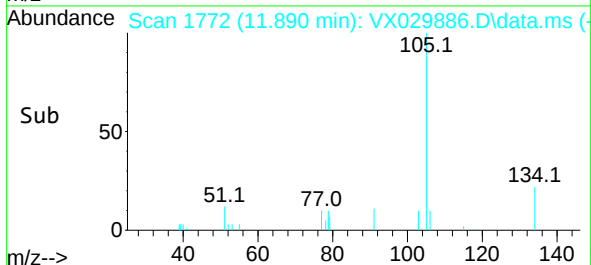
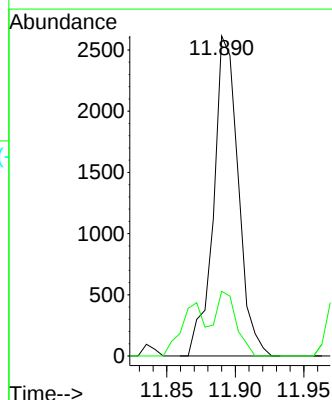
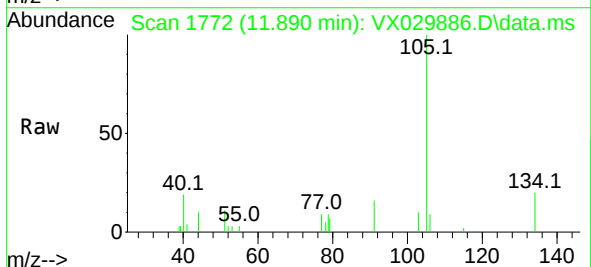
Instrument :
MSVOA_X
ClientSampleId :
MW-19

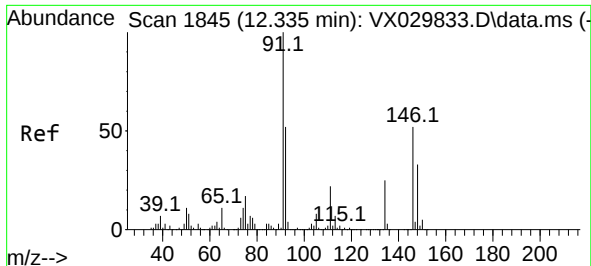
Tgt Ion:105 Resp: 29639
Ion Ratio Lower Upper
105 100
120 43.7 22.9 68.8



#85
sec-Butylbenzene
Concen: 0.297 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX029886.D
Acq: 30 Jun 2022 02:07

Tgt Ion:105 Resp: 3277
Ion Ratio Lower Upper
105 100
134 17.5 10.0 30.0





#89

n-Butylbenzene

Concen: 0.266 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX029886.D

Acq: 30 Jun 2022 02:07

Instrument :

MSVOA_X

ClientSampleId :

MW-19

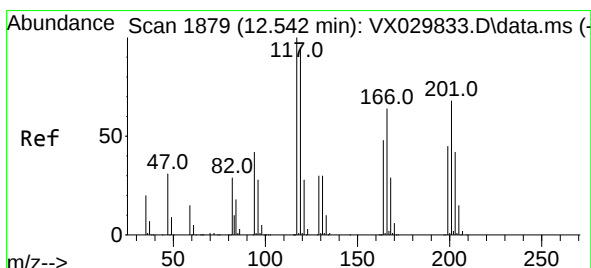
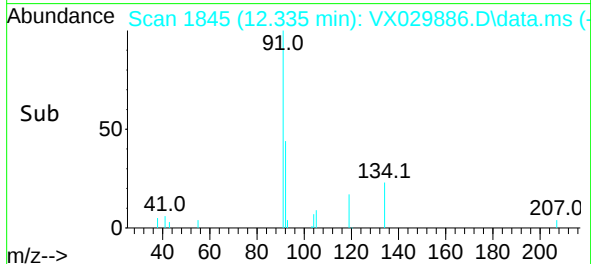
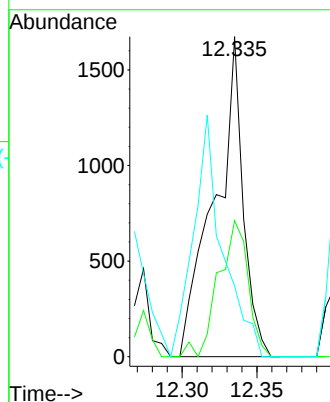
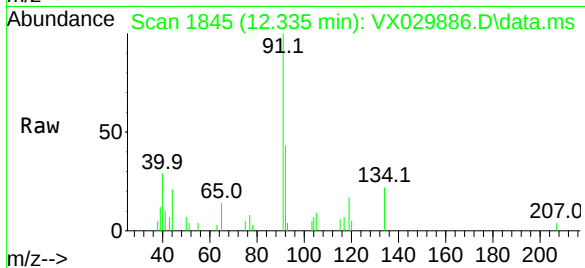
Tgt Ion: 91 Resp: 2205

Ion Ratio Lower Upper

91 100

92 44.3 26.2 78.5

134 76.9 12.6 37.8#



#90

Hexachloroethane

Concen: 0.753 ug/l

RT: 12.530 min Scan# 1877

Delta R.T. -0.012 min

Lab File: VX029886.D

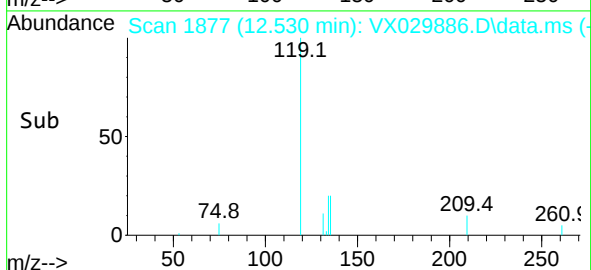
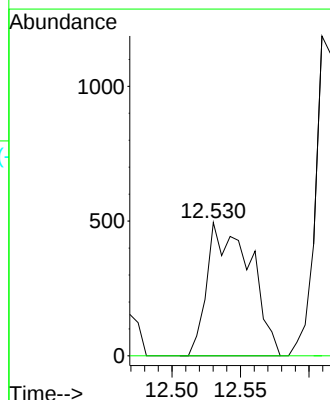
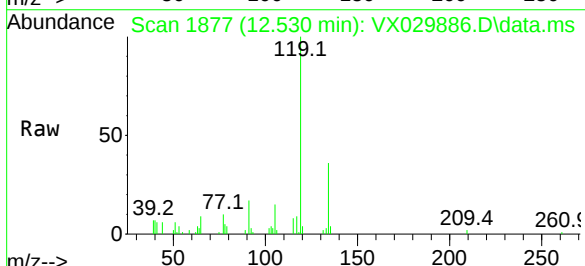
Acq: 30 Jun 2022 02:07

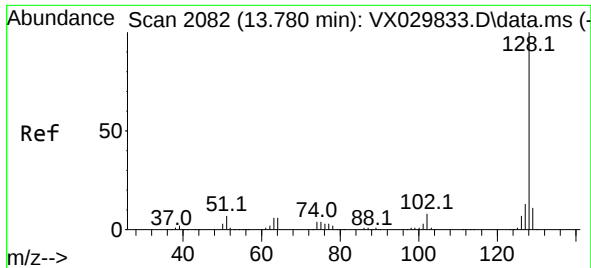
Tgt Ion: 117 Resp: 1081

Ion Ratio Lower Upper

117 100

201 0.0 34.2 102.5#





#95

Naphthalene

Concen: 1.257 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX029886.D

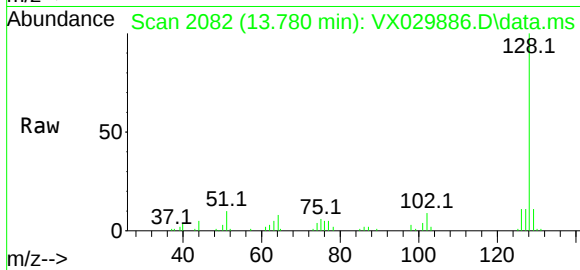
Acq: 30 Jun 2022 02:07

Instrument :

MSVOA_X

ClientSampleId :

MW-19



Tgt Ion:128 Resp: 14922

Ion Ratio Lower Upper

128 100

127 14.6 10.2 15.2

129 12.3 8.6 13.0

