

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW060319\
 Data File : VW010671.D
 Acq On : 03 Jun 2019 20:34
 Operator : SY/VA
 Sample : K3165-09
 Misc : 5.07G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 04 07:41:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	74696	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	127423	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	115863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	55380	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	37336	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
35) Dibromofluoromethane	7.88	113	38177	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
50) Toluene-d8	10.32	98	153192	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
62) 4-Bromofluorobenzene	12.62	95	74804	63.58	ug/l	0.00
Spiked Amount			Recovery	=	127.16%	

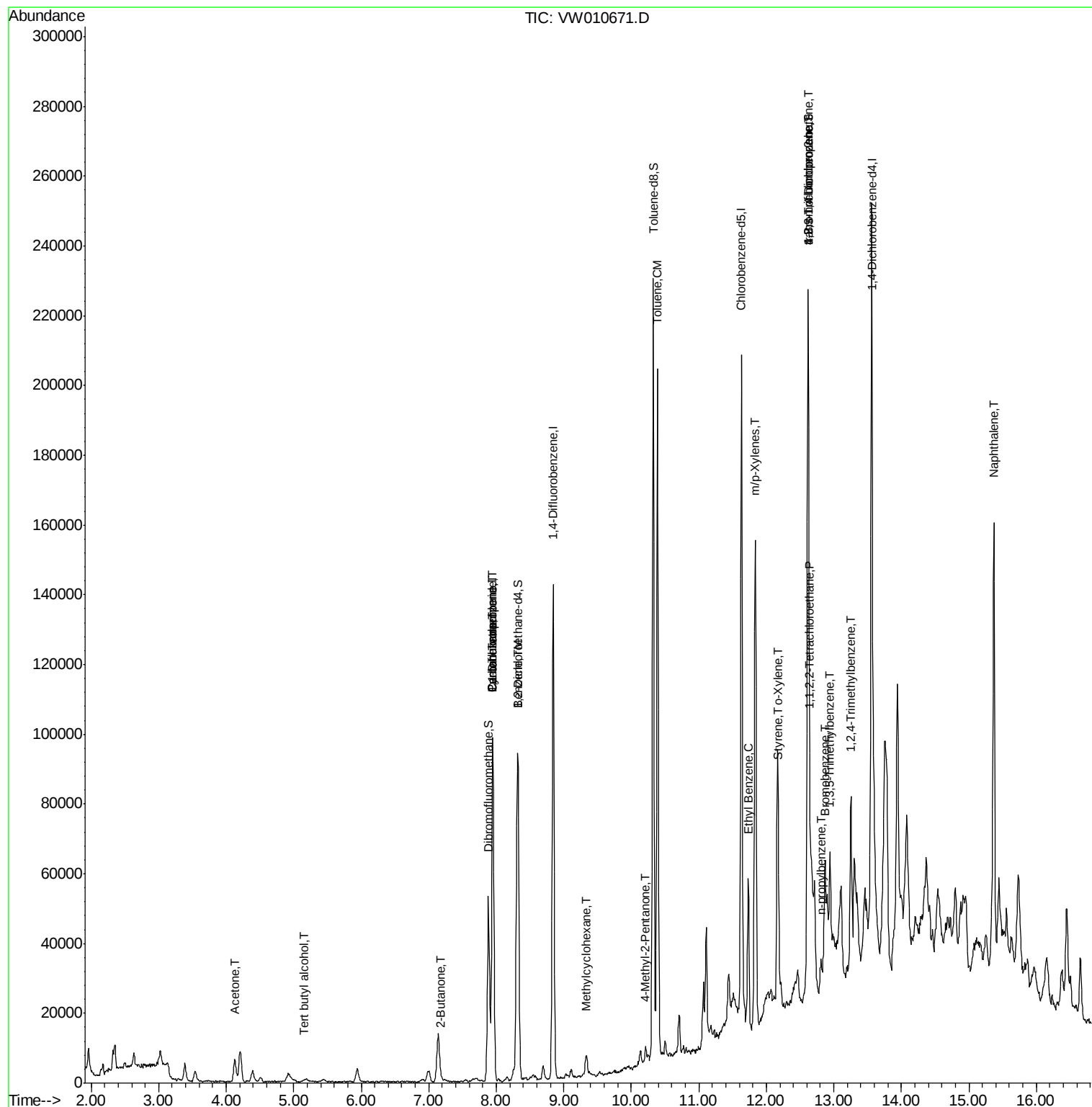
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	48	Below Cal	#	42
11) Tert butyl alcohol	5.17	59	1753	25.278	ug/l #	74
13) Acrolein	4.11	56	19	Below Cal	#	1
16) Acetone	4.13	43	11364	72.209	ug/l	95
20) Methylene Chloride	4.93	84	1481	Below Cal	#	92
25) 2-Butanone	7.18	43	1052	4.671	ug/l #	82
31) Cyclohexane	7.95	56	3080	2.104	ug/l #	50
36) 1,1-Dichloropropene	7.95	75	5456	4.596	ug/l #	50
38) Carbon Tetrachloride	7.95	117	7392	5.773	ug/l #	16
39) Methylcyclohexane	9.34	83	3373	2.121	ug/l #	87
40) Benzene	8.32	78	66272	20.087	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	2912	5.699	ug/l	99
52) Toluene	10.39	92	88719	40.042	ug/l	99
67) Ethyl Benzene	11.73	91	29958	6.872	ug/l	99
68) m/p-Xylenes	11.83	106	45788	26.777	ug/l	99
69) o-Xylene	12.17	106	20153	12.439	ug/l	99
70) Styrene	12.18	104	9095	3.309	ug/l #	71
75) 1,1,2,2-Tetrachloroethane	12.65	83	1111	1.390	ug/l #	49
76) 1,2,3-Trichloropropane	12.62	75	26519	47.175	ug/l #	1
77) Bromobenzene	12.87	156	8452	8.594	ug/l #	1
78) n-propylbenzene	12.81	91	6714	1.311	ug/l	95
80) 1,3,5-Trimethylbenzene	12.94	105	12292	3.303	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.62	75	26519	98.455	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.26	105	26777	7.223	ug/l	98
95) Naphthalene	15.37	128	106967	42.602	ug/l	99

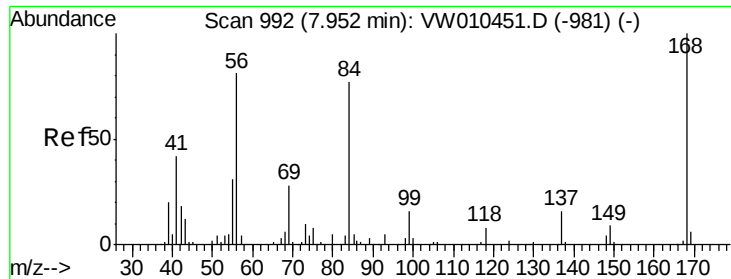
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

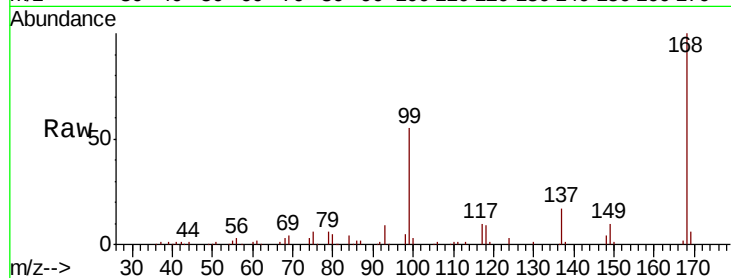
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 74696

Ion Ratio Lower Upper

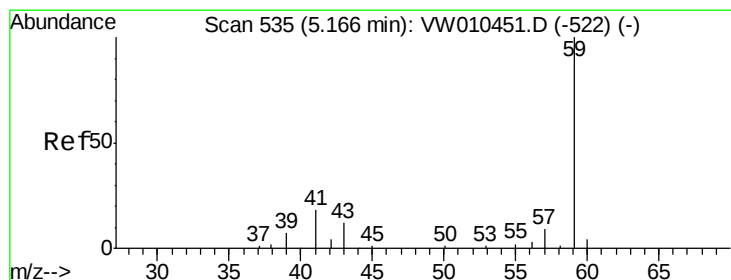
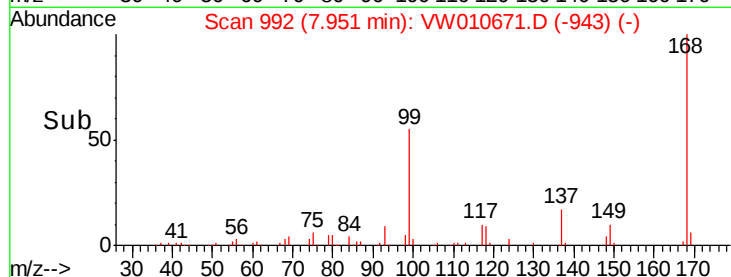
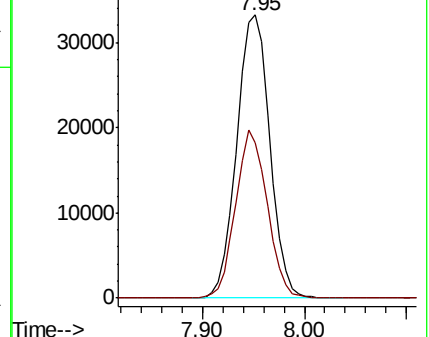
168 100

99 54.8 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 25.278 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.00 min

Lab File: VW010671.D

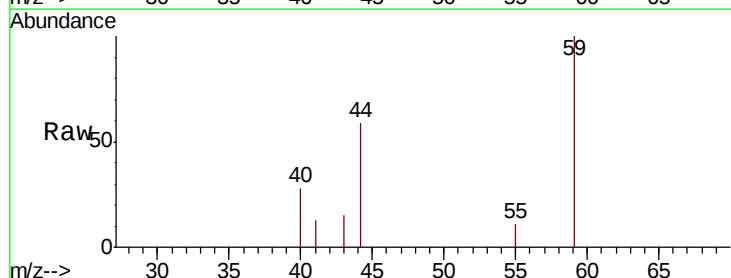
Acq: 03 Jun 2019 20:34

Tgt Ion: 59 Resp: 1753

Ion Ratio Lower Upper

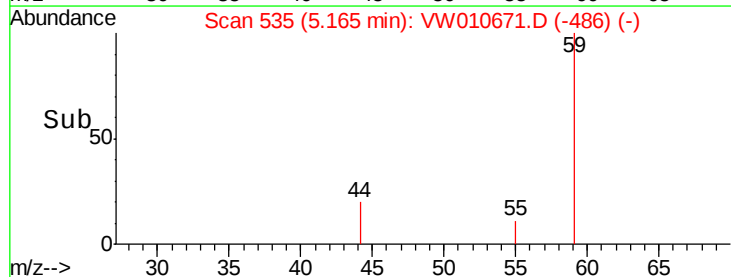
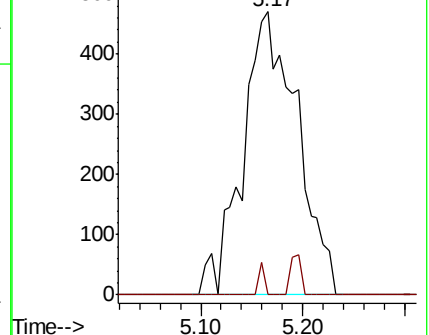
59 100

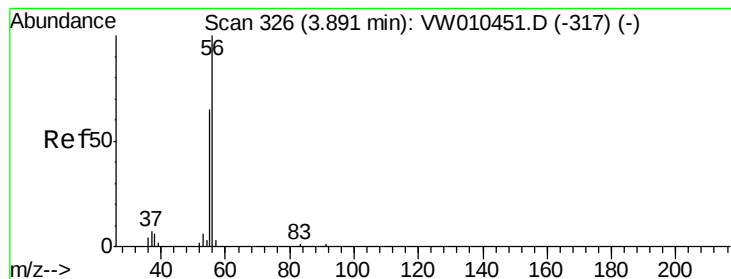
57 1.1 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 4.11 min Scan# 362

Delta R.T. 0.22 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

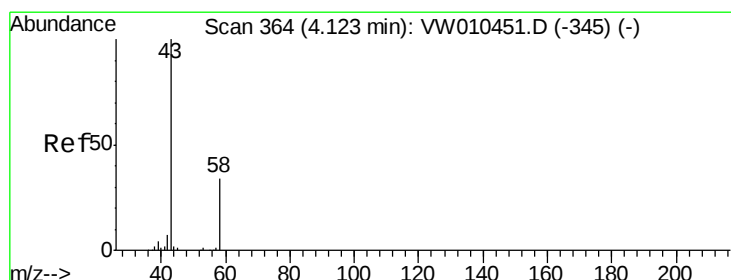
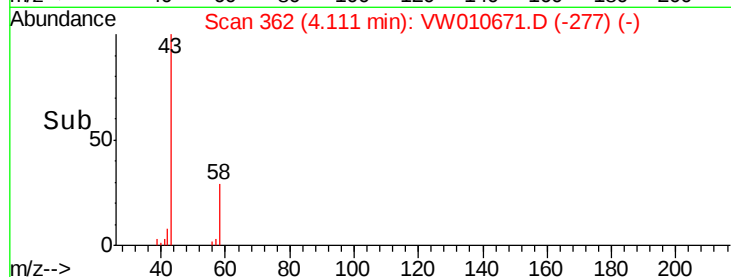
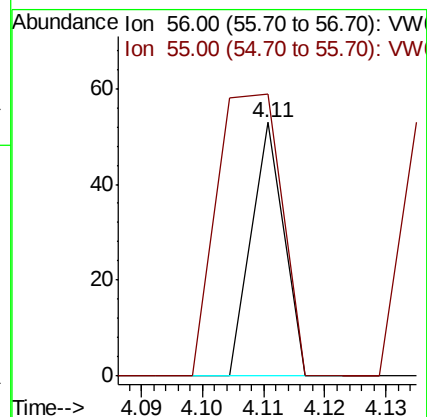
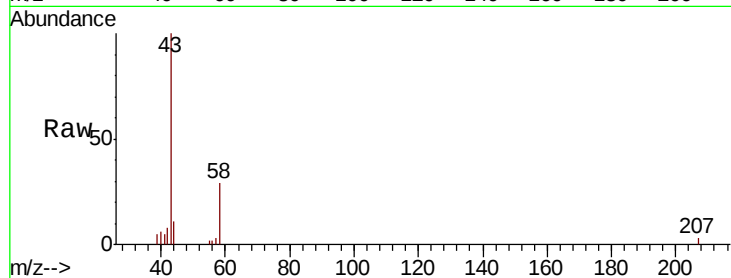
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 226.3 57.9 86.9#



#16

Acetone

Concen: 72.209 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010671.D

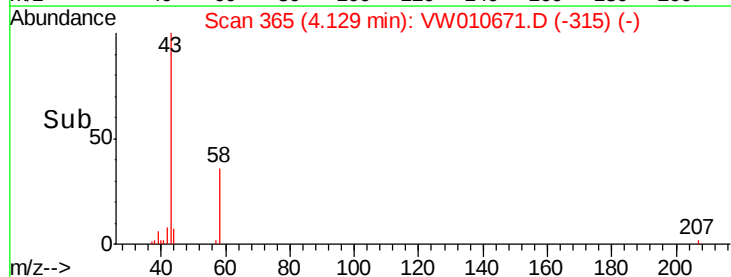
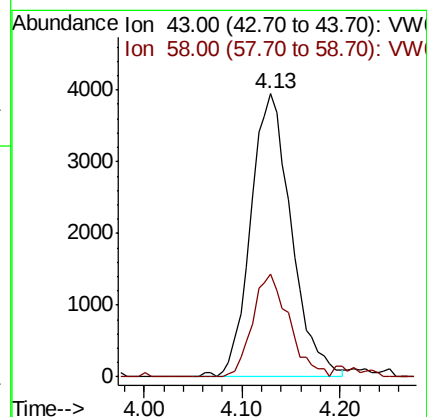
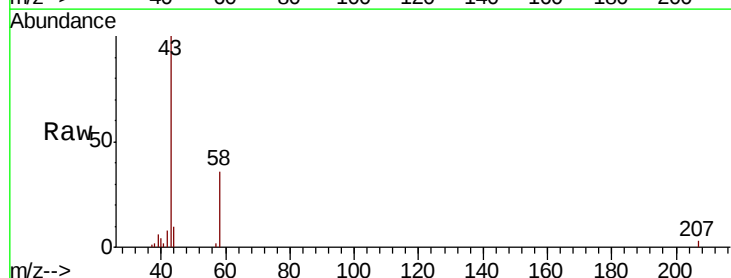
Acq: 03 Jun 2019 20:34

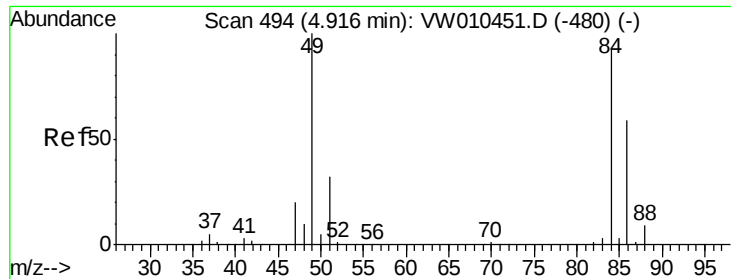
Tgt Ion: 43 Resp: 11364

Ion Ratio Lower Upper

43 100

58 36.3 27.0 40.4

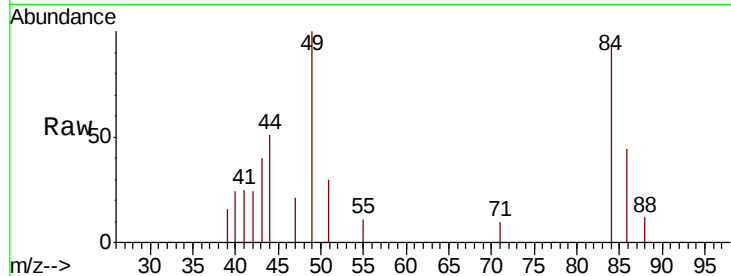




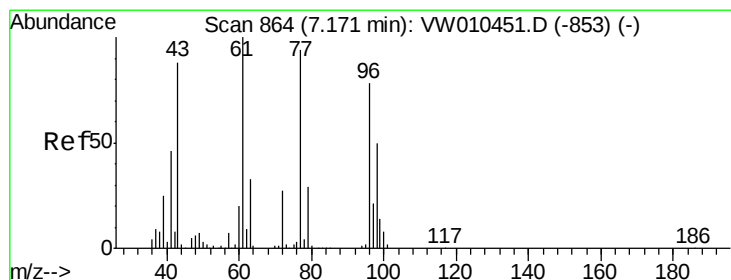
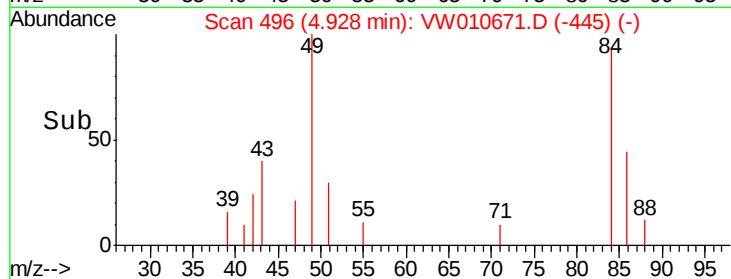
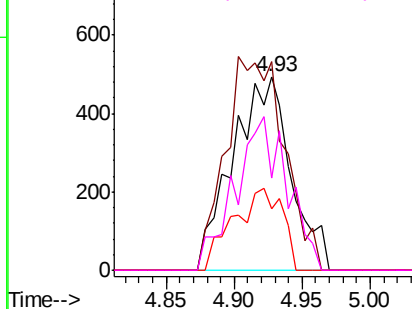
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.93 min Scan# 496
Delta R.T. 0.01 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 1481
Ion Ratio Lower Upper
84 100
49 108.1 87.2 130.8
51 32.0 27.7 41.5
86 47.4 51.4 77.0#

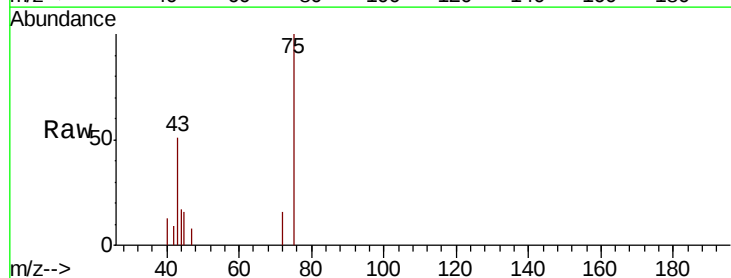


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

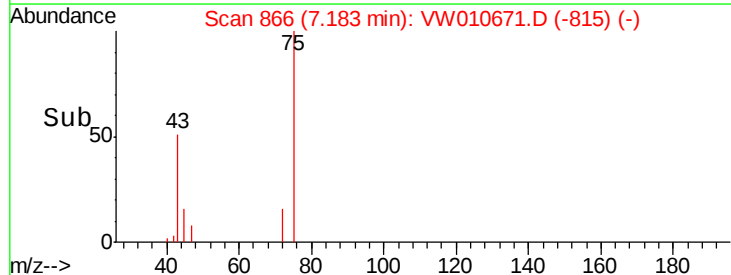
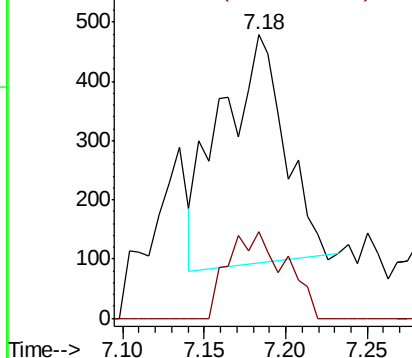


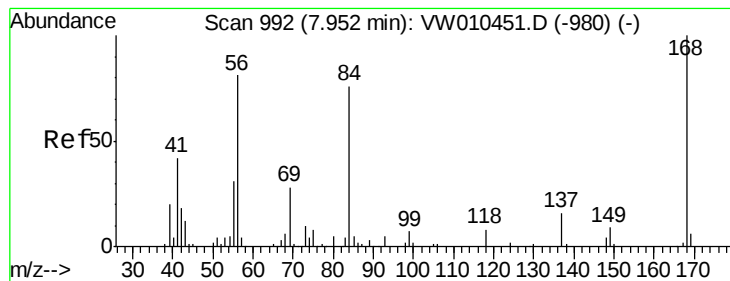
#25
2-Butanone
Concen: 4.671 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Tgt Ion: 43 Resp: 1052
Ion Ratio Lower Upper
43 100
72 39.7 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

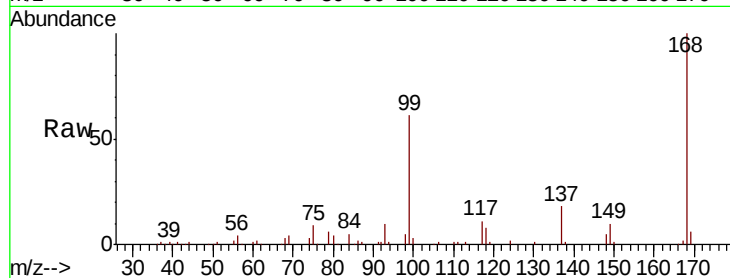




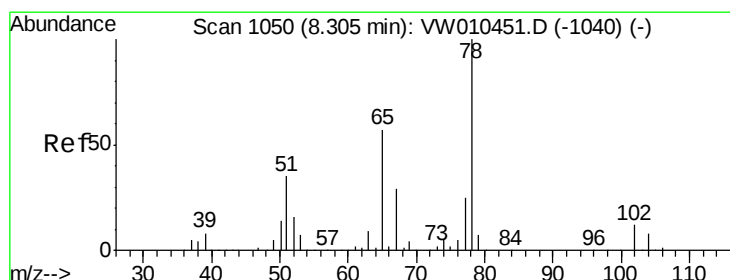
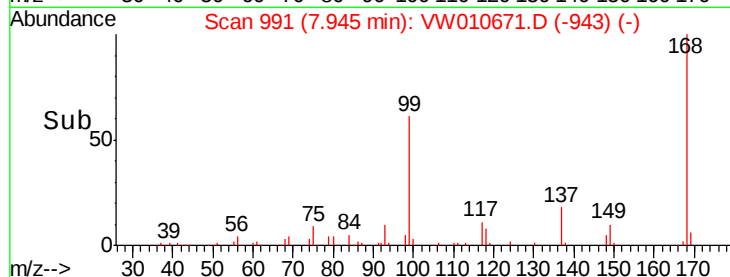
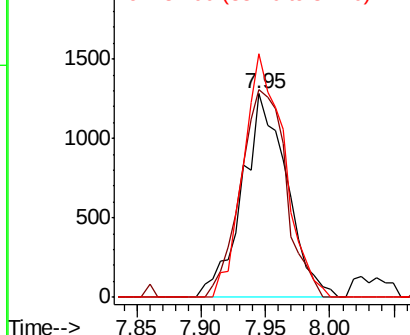
#31
Cyclohexane
Concen: 2.104 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 3080
Ion Ratio Lower Upper
56 100
69 102.3 28.2 42.2#
84 119.7 75.8 113.8#

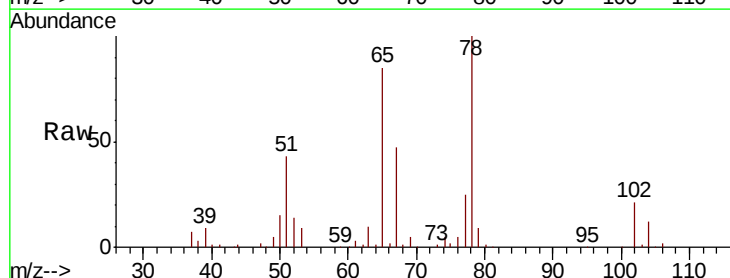


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

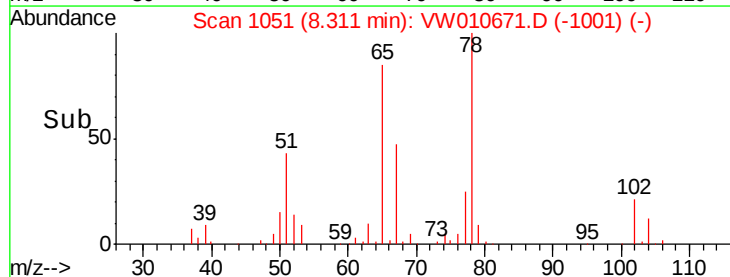
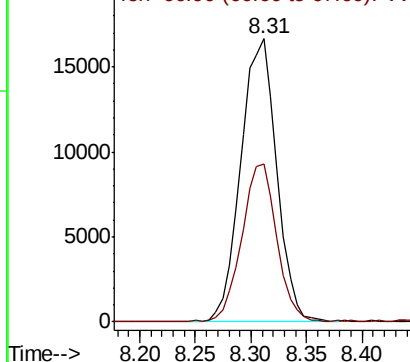


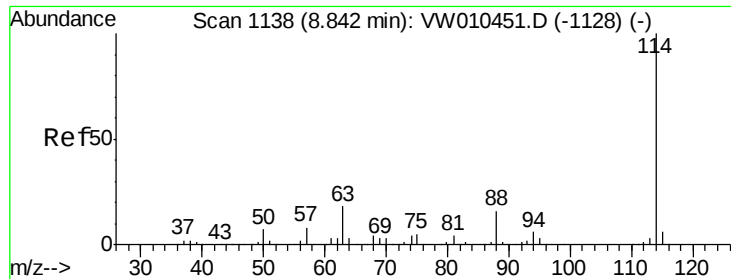
#33
1,2-Dichloroethane-d4
Concen: 48.426 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Tgt Ion: 65 Resp: 37336
Ion Ratio Lower Upper
65 100
67 54.5 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

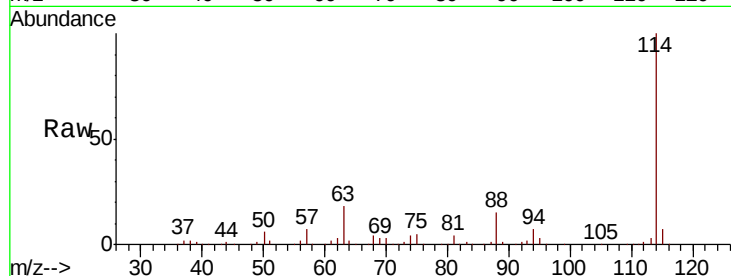




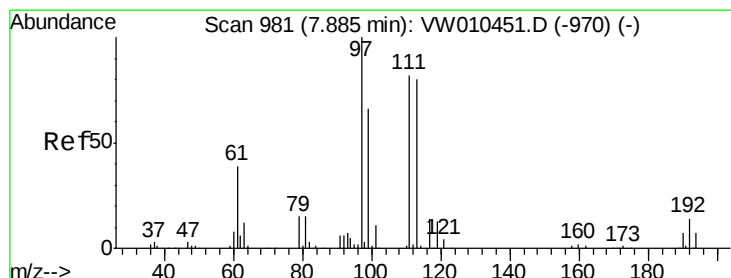
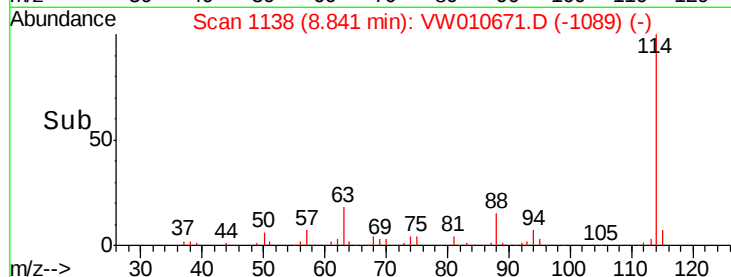
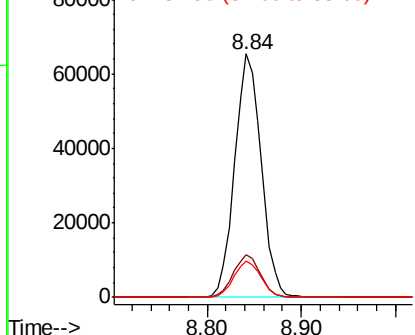
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:114 Resp: 127423
Ion Ratio Lower Upper
114 100
63 17.5 0.0 36.0
88 14.8 0.0 32.0

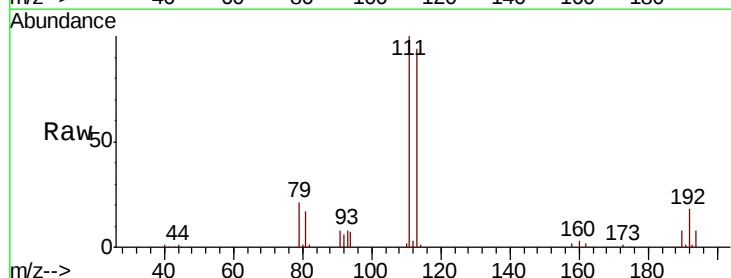


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

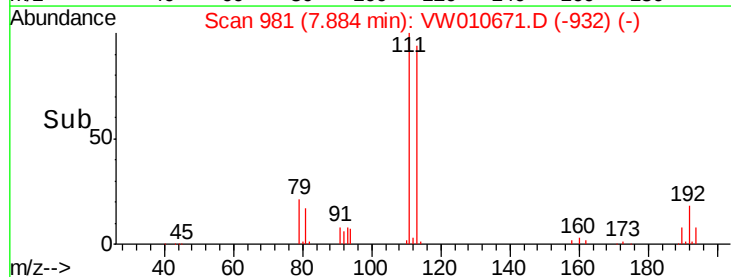
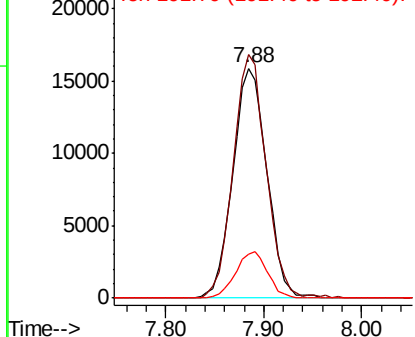


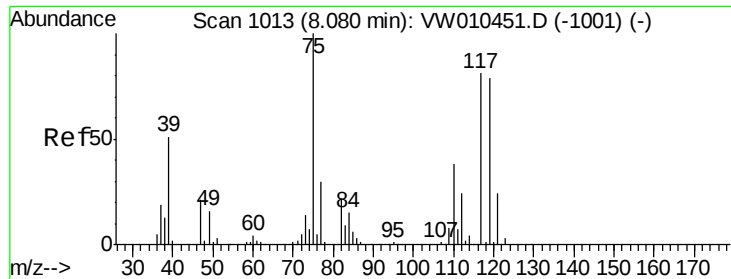
#35
Dibromofluoromethane
Concen: 49.377 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Tgt Ion:113 Resp: 38177
Ion Ratio Lower Upper
113 100
111 102.5 82.2 123.4
192 19.0 14.3 21.5



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

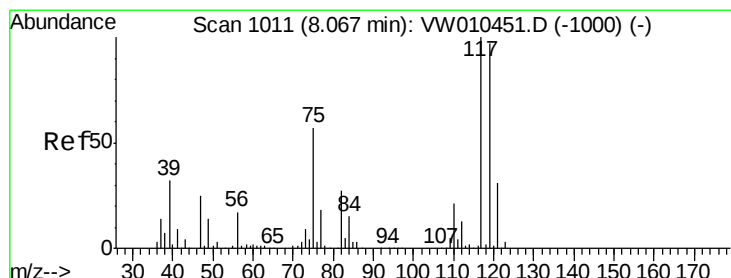
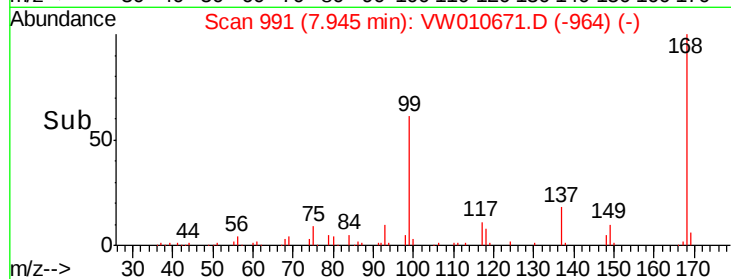
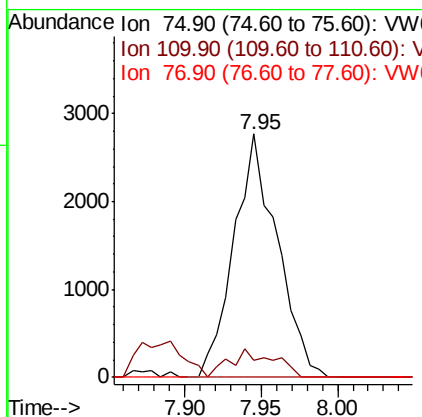
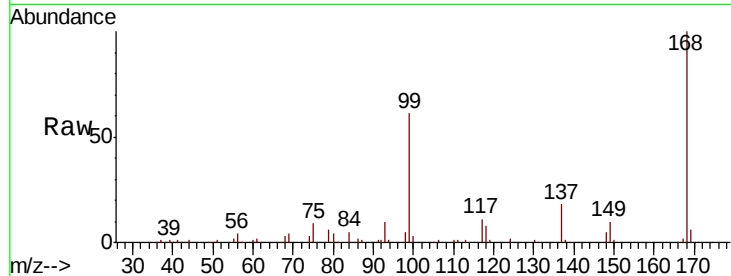




#36
 1,1-Dichloropropene
 Concen: 4.596 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010671.D
 Acq: 03 Jun 2019 20:34

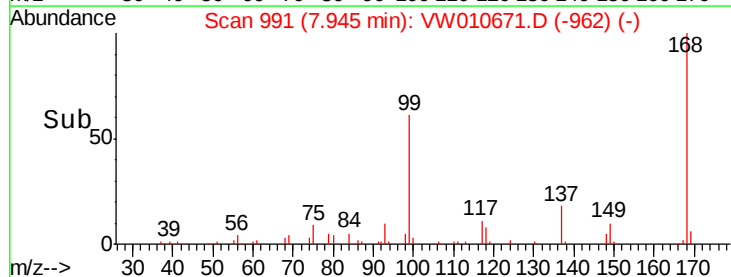
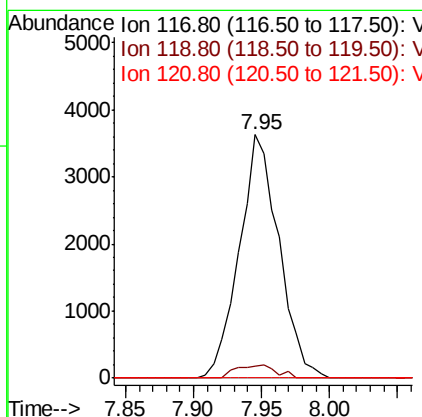
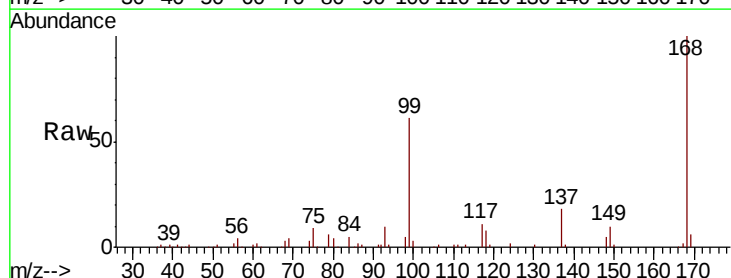
Instrument :
 MSVOA_W
 ClientSampleId :

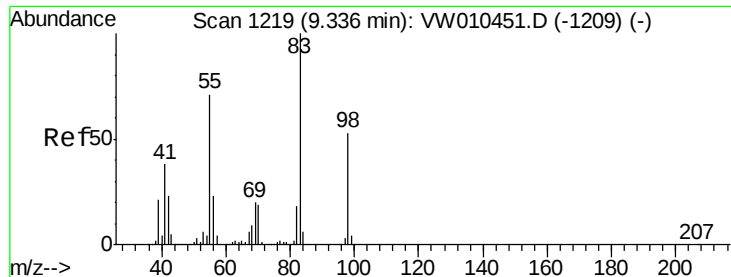
Tot Ion: 75 Resp: 5456
 Ion Ratio Lower Upper
 75 100
 110 11.5 19.2 57.6#
 77 0.0 25.2 37.8#



#38
 Carbon Tetrachloride
 Concen: 5.773 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW010671.D
 Acq: 03 Jun 2019 20:34

Tgt Ion: 117 Resp: 7392
 Ion Ratio Lower Upper
 117 100
 119 5.2 77.4 116.0#
 121 0.0 25.0 37.6#

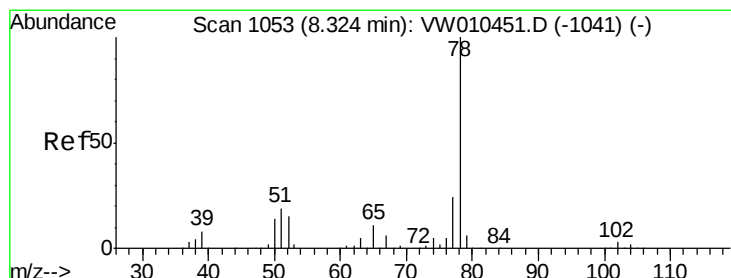
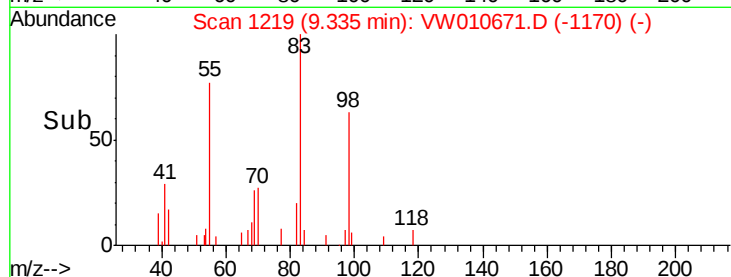
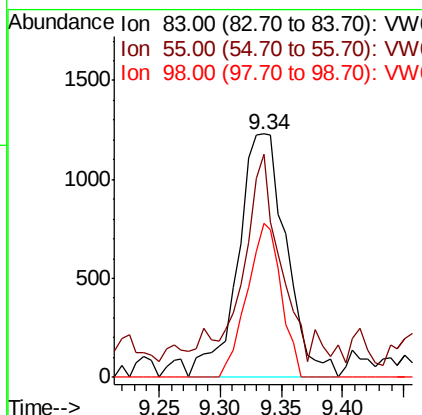
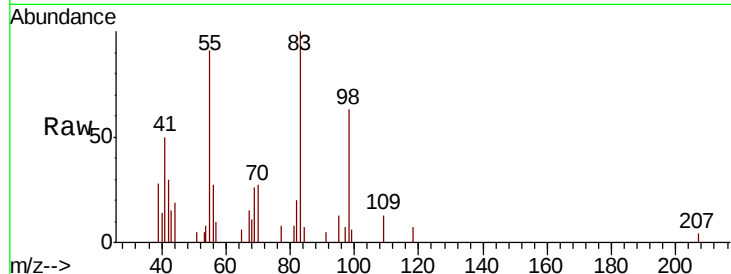




#39
Methvlcvclohexane
Concen: 2.121 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

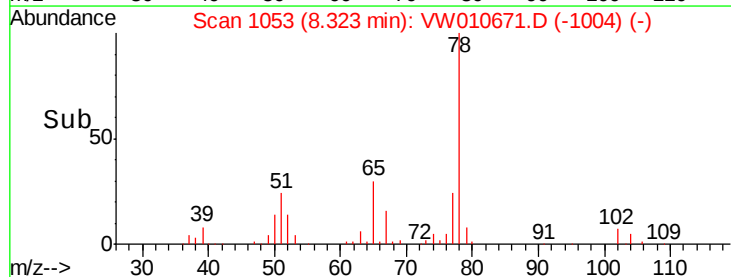
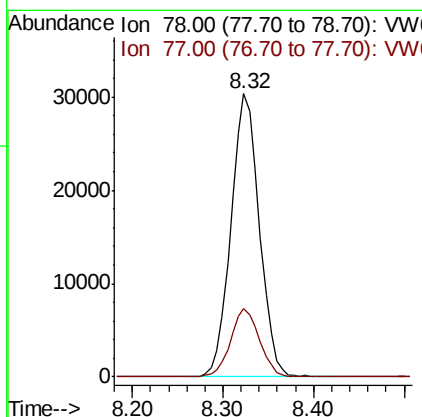
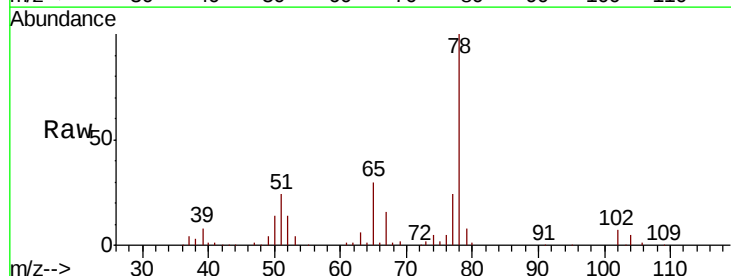
Instrument :
MSVOA_W
ClientSampled :

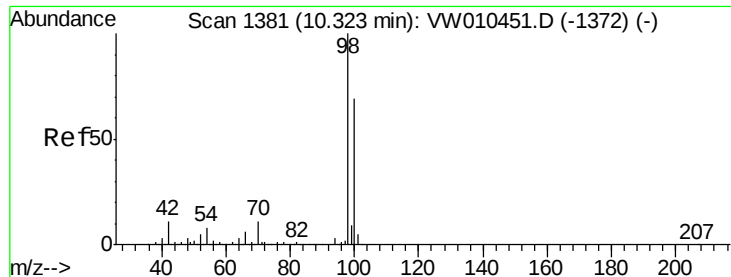
Tot Ion: 83 Resp: 3373
Ion Ratio Lower Upper
83 100
55 80.6 57.0 85.6
98 63.0 42.0 63.0#



#40
Benzene
Concen: 20.087 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Tgt Ion: 78 Resp: 66272
Ion Ratio Lower Upper
78 100
77 24.4 18.9 28.3

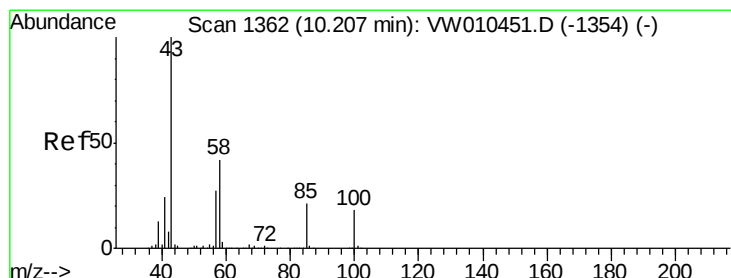
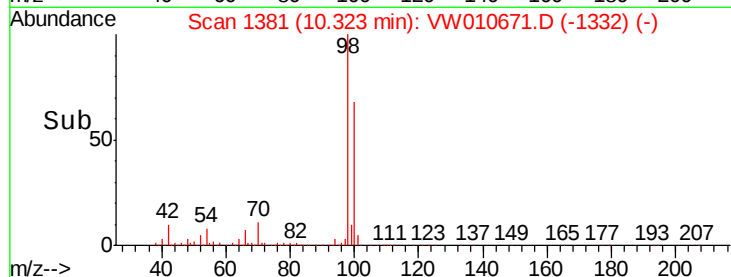
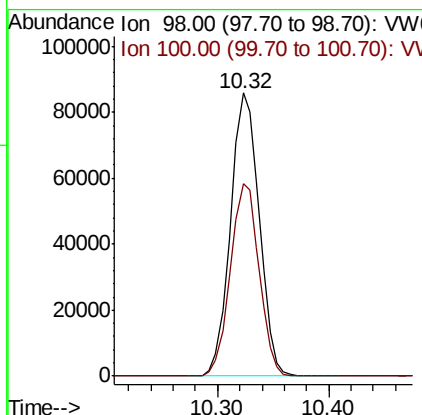
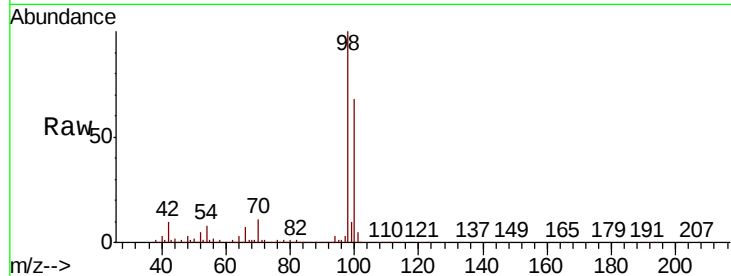




#50
Toluene-d8
Concen: 51.864 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

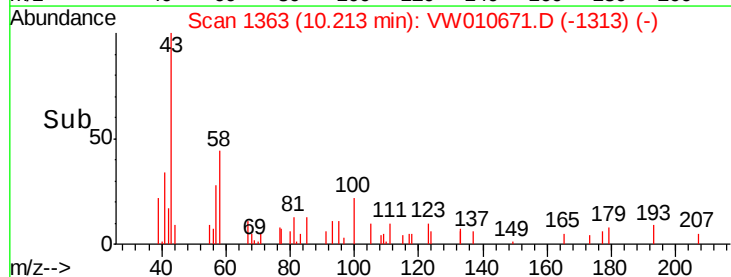
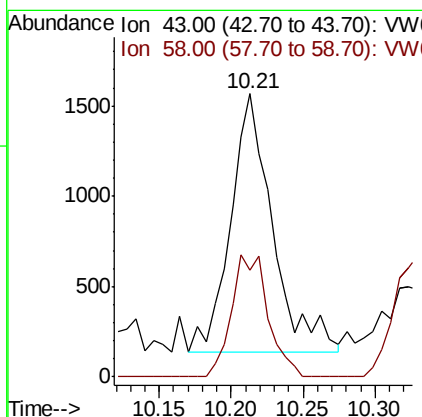
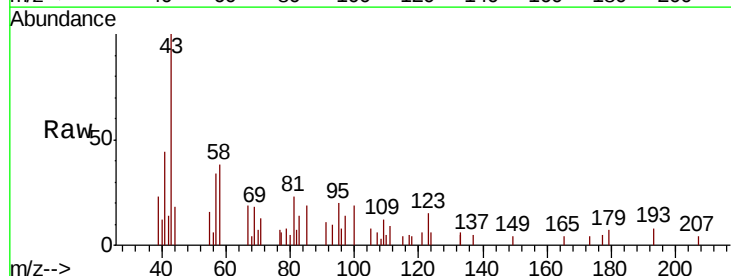
Instrument :
MSVOA_W
ClientSampled :

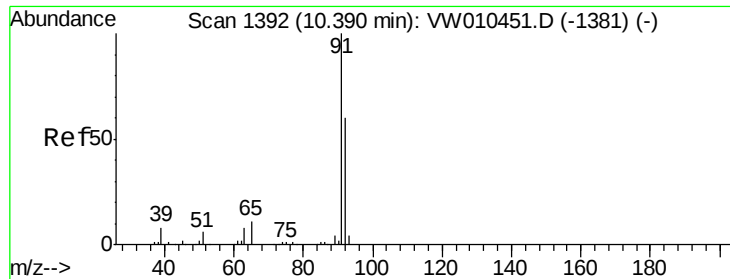
Tot Ion: 98 Resp: 153192
Ion Ratio Lower Upper
98 100
100 68.0 53.7 80.5



#51
4-Methyl-2-Pentanone
Concen: 5.699 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Tgt Ion: 43 Resp: 2912
Ion Ratio Lower Upper
43 100
58 41.0 33.2 49.8





#52

Toluene

Concen: 40.042 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

Instrument :

MSVOA_W

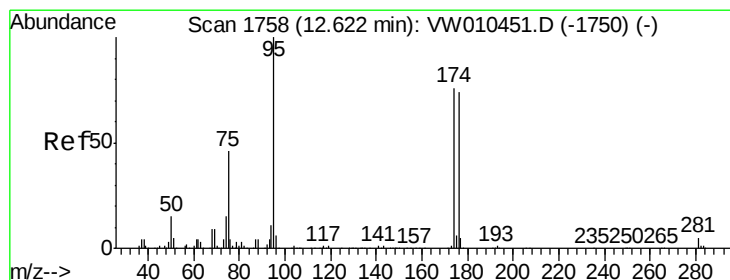
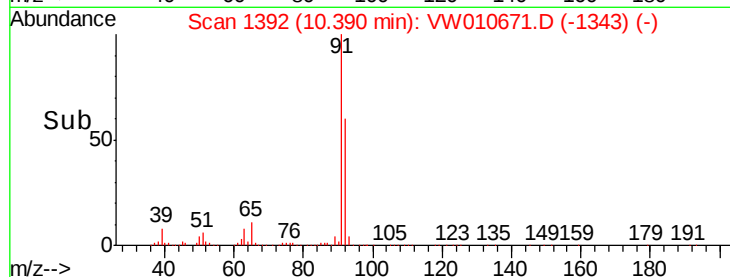
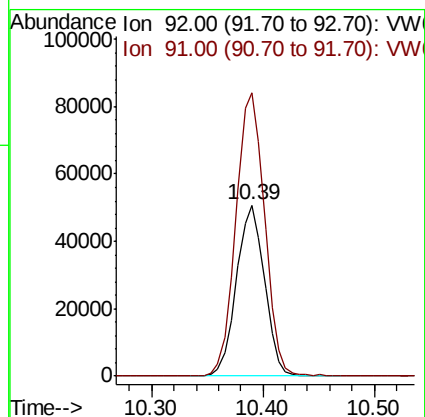
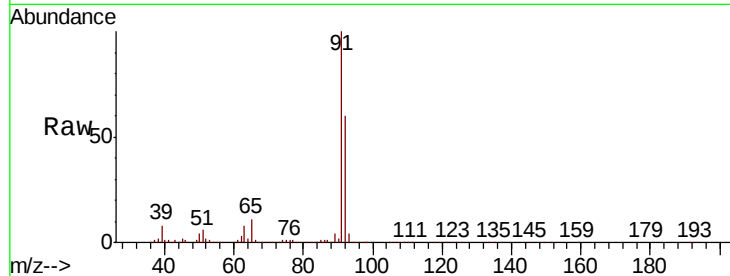
ClientSampleId :

Tot Ion: 92 Resp: 88719

Ion Ratio Lower Upper

92 100

91 170.1 135.4 203.0



#62

4-Bromofluorobenzene

Concen: 63.581 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

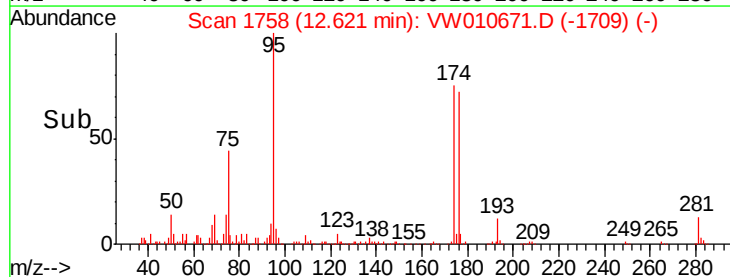
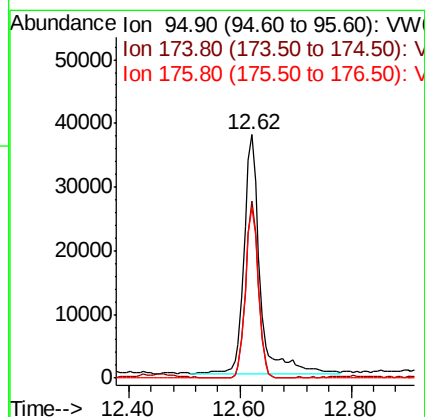
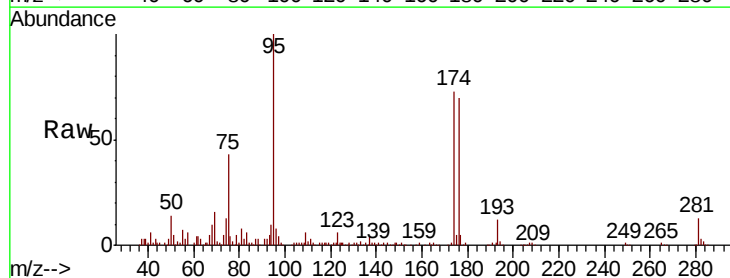
Tgt Ion: 95 Resp: 74804

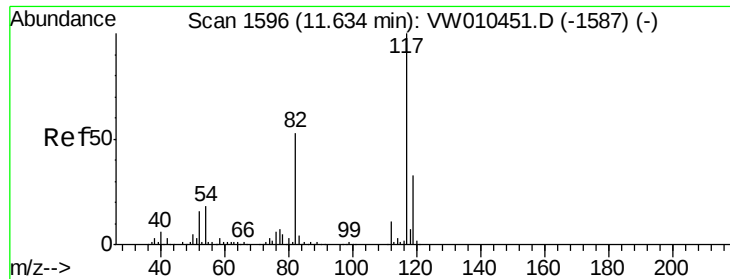
Ion Ratio Lower Upper

95 100

174 58.6 0.0 148.6

176 57.7 0.0 144.2

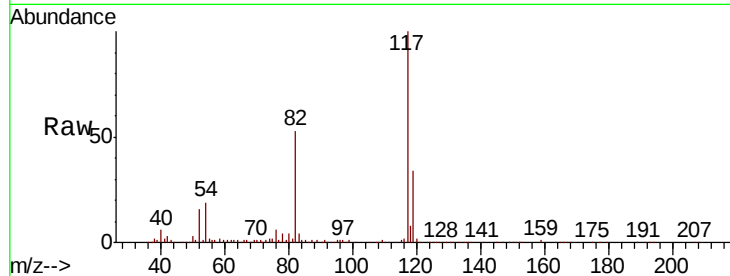




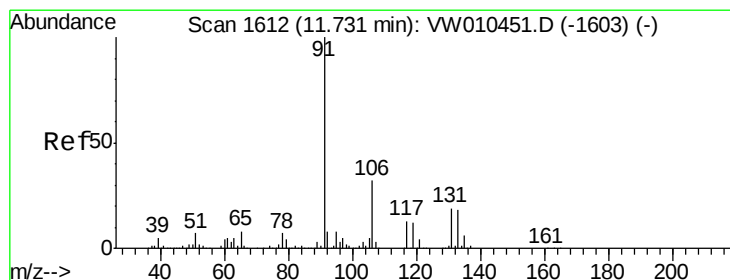
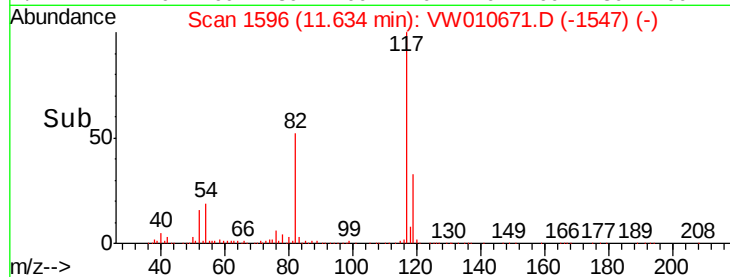
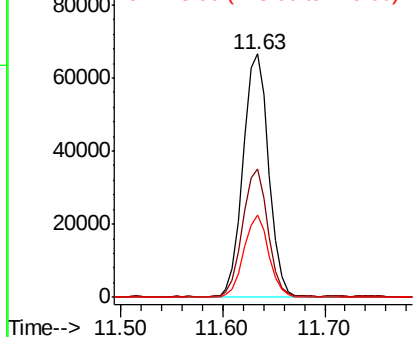
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 115863
Ion Ratio Lower Upper
117 100
82 52.1 42.8 64.2
119 33.3 26.3 39.5

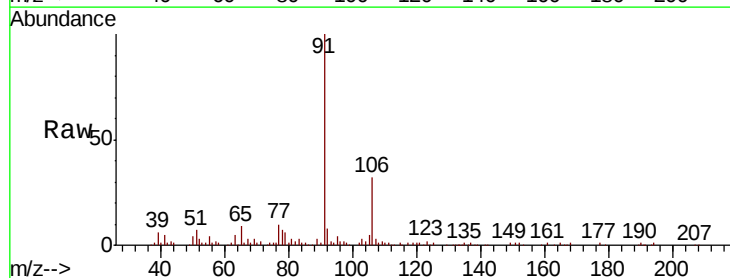


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

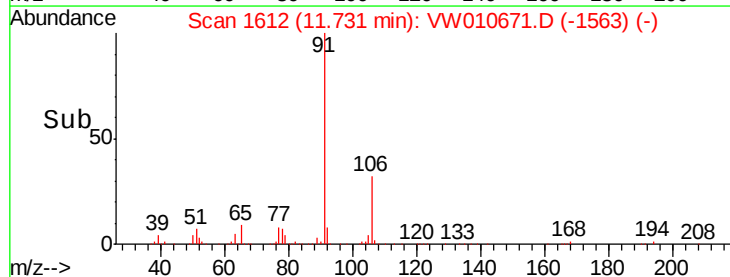
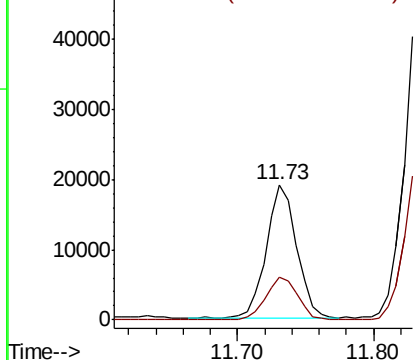


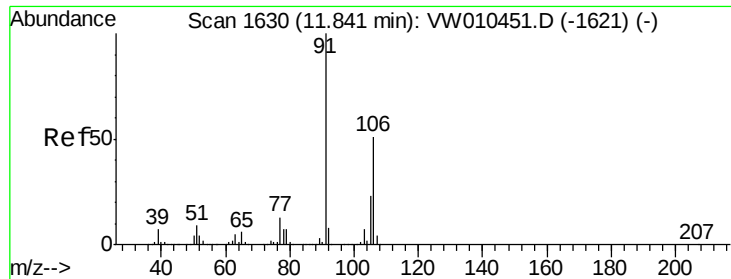
#67
Ethyl Benzene
Concen: 6.872 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010671.D
Acq: 03 Jun 2019 20:34

Tgt Ion: 91 Resp: 29958
Ion Ratio Lower Upper
91 100
106 31.8 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 26.777 ug/l

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

Instrument :

MSVOA_W

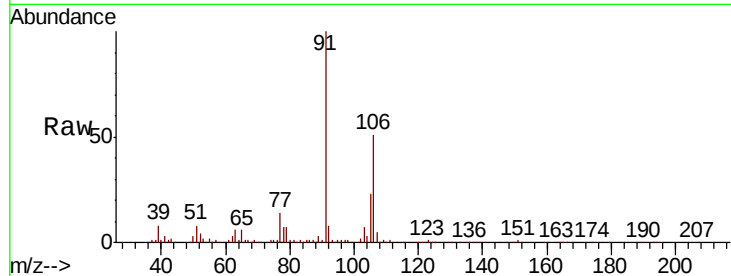
ClientSampleId :

Tot Ion:106 Resp: 45788

Ion Ratio Lower Upper

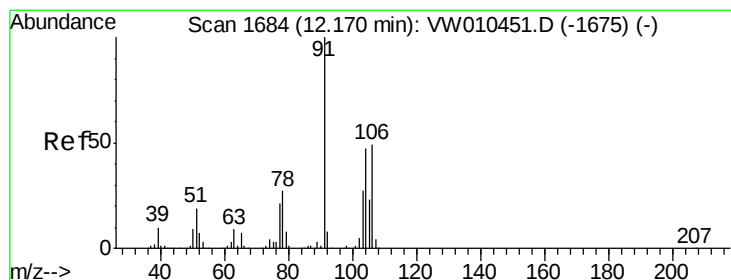
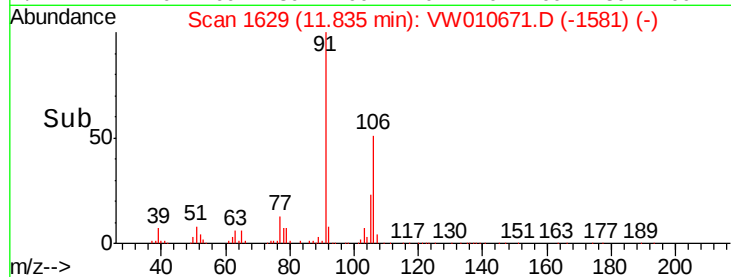
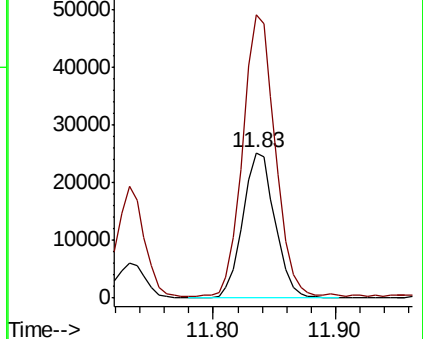
106 100

91 196.6 156.0 234.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#69

o-Xylene

Concen: 12.439 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW010671.D

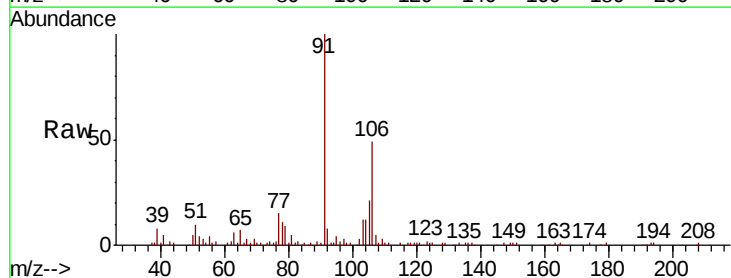
Acq: 03 Jun 2019 20:34

Tgt Ion:106 Resp: 20153

Ion Ratio Lower Upper

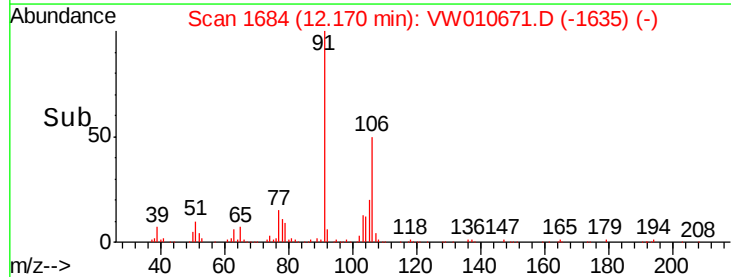
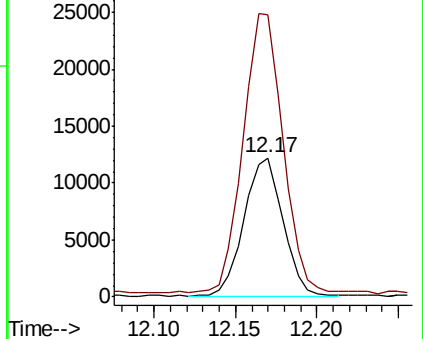
106 100

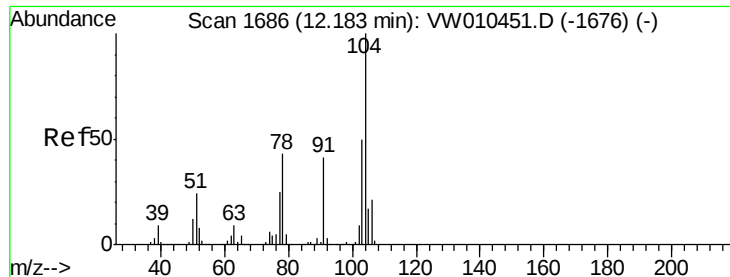
91 207.2 103.2 309.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#70

Stvrene

Concen: 3.309 ug/l

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

Instrument :

MSVOA_W

ClientSampled :

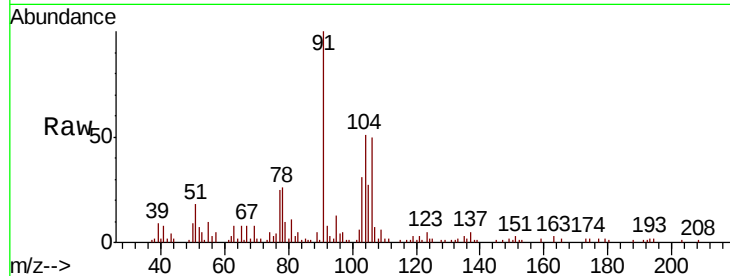
Tot Ion:104 Resp: 9095

Ion Ratio Lower Upper

104 100

78 71.6 39.0 58.4#

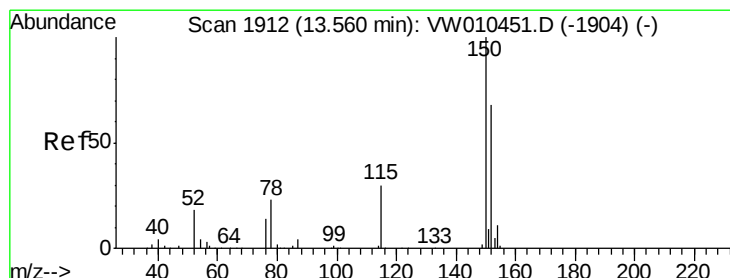
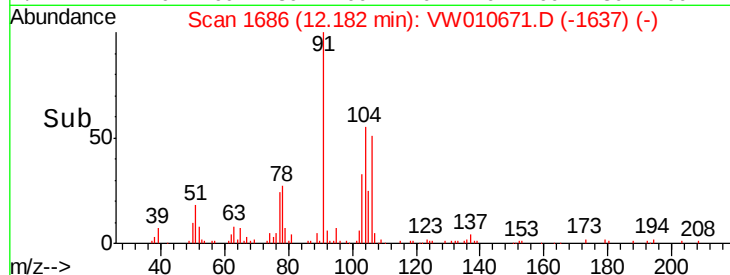
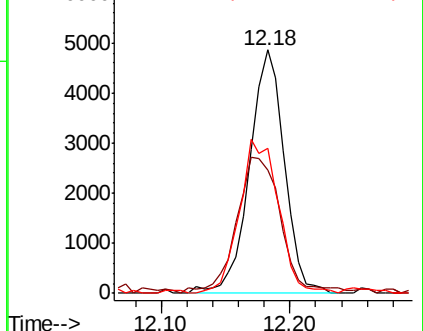
103 71.0 43.0 64.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

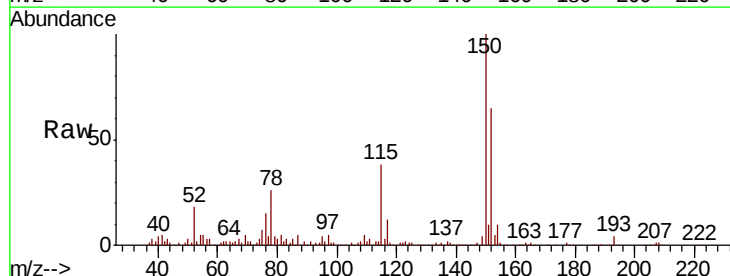
Tgt Ion:152 Resp: 55380

Ion Ratio Lower Upper

152 100

115 57.2 30.3 91.0

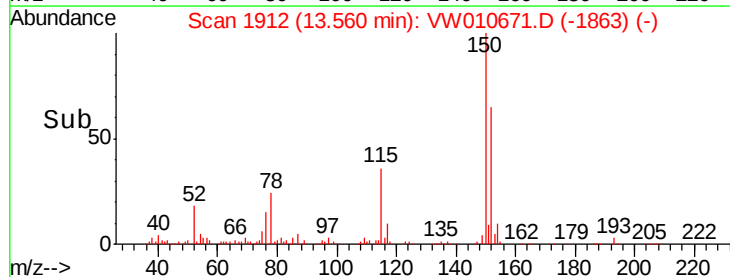
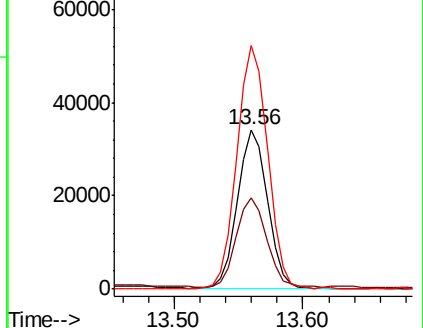
150 155.7 0.0 349.8

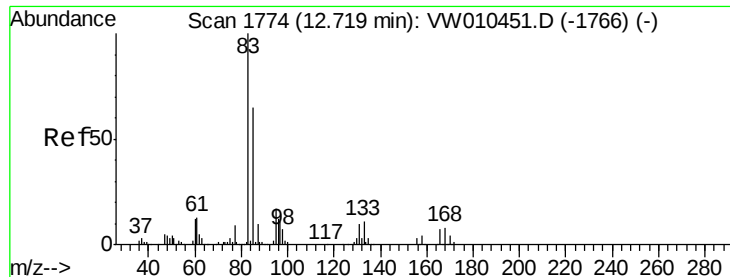


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 1.390 ug/l

RT: 12.65 min Scan# 1762

Delta R.T. -0.07 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

Instrument :

MSVOA_W

ClientSampleId :

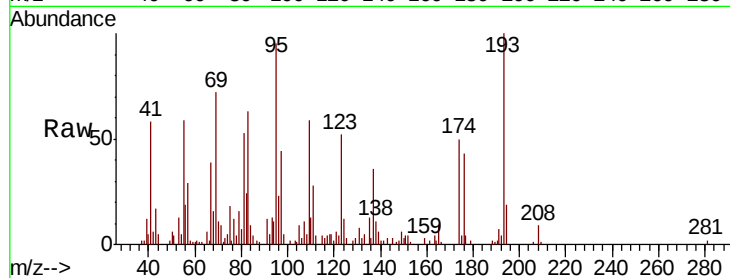
Tot Ion: 83 Resp: 1111

Ion Ratio Lower Upper

83 100

131 12.2 5.6 16.8

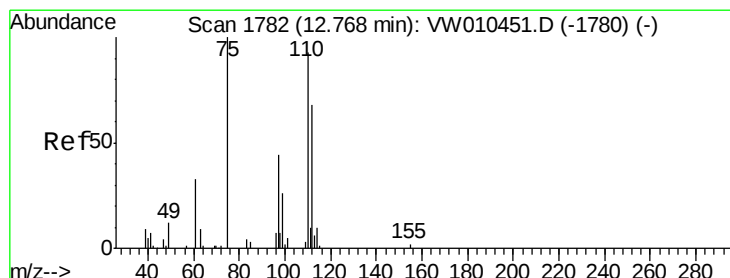
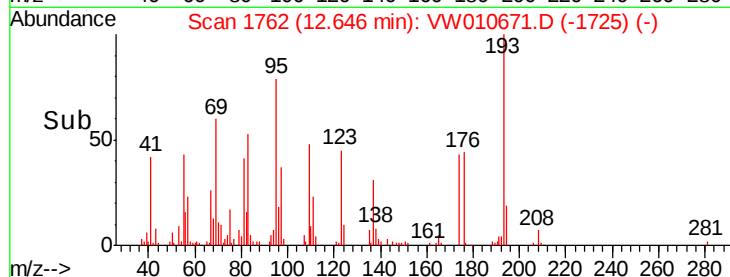
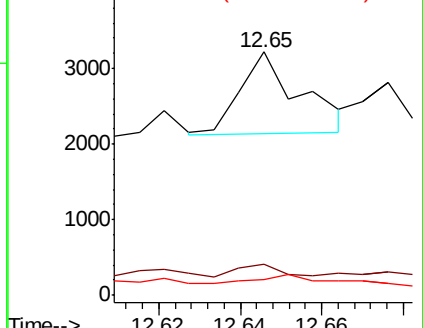
85 17.6 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 47.175 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010671.D

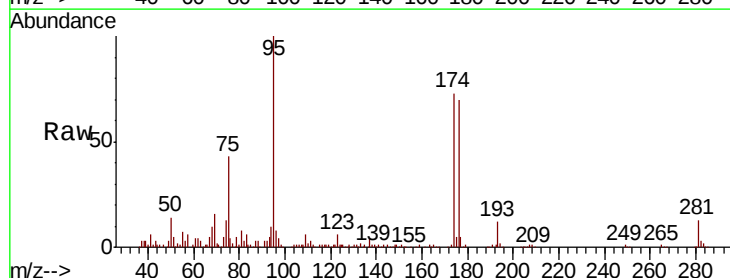
Acq: 03 Jun 2019 20:34

Tgt Ion: 75 Resp: 26519

Ion Ratio Lower Upper

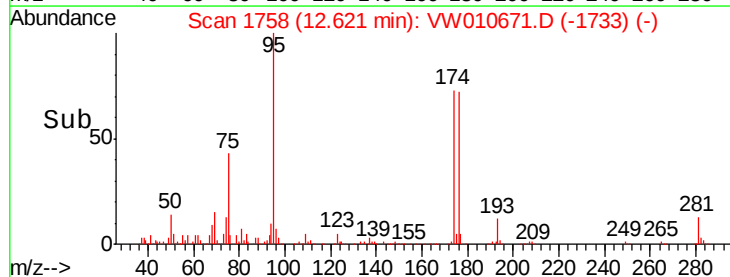
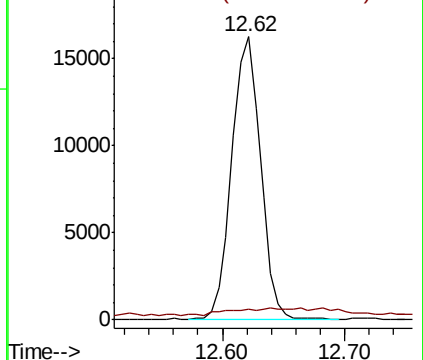
75 100

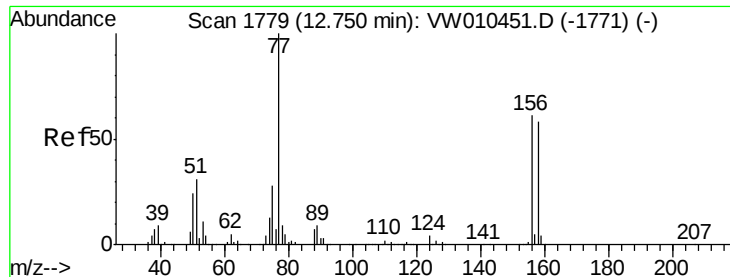
77 4.5 170.0 510.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 8.594 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.12 min

Lab File: VW010671.D

Acq: 03 Jun 2019 20:34

Instrument :

MSVOA_W

ClientSampleId :

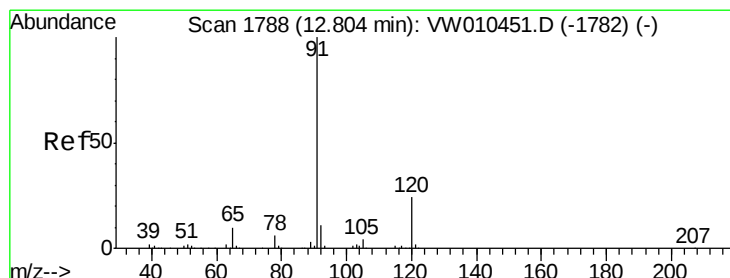
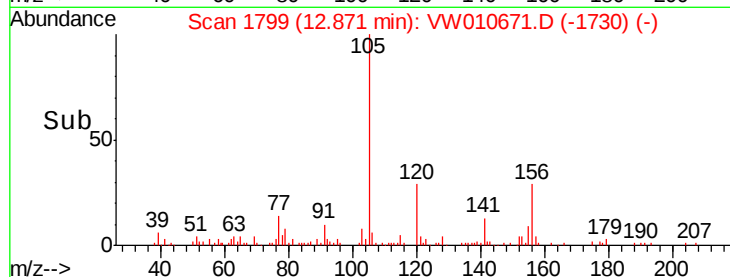
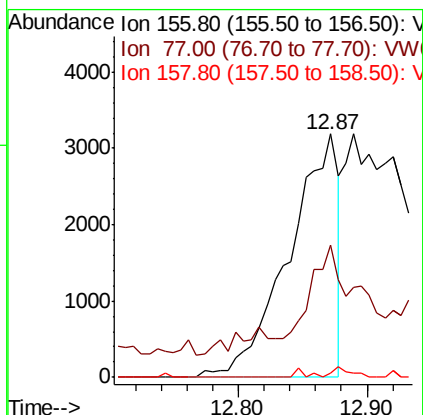
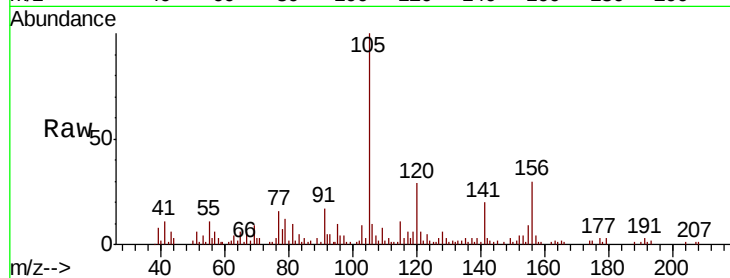
Tot Ion:156 Resp: 8452

Ion Ratio Lower Upper

156 100

77 22.2 92.4 277.2#

158 1.6 48.3 144.8#



#78

n-propylbenzene

Concen: 1.311 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.01 min

Lab File: VW010671.D

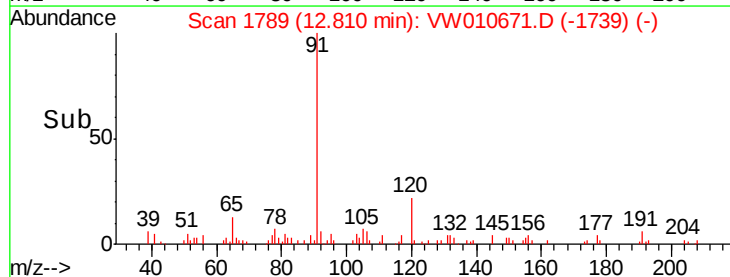
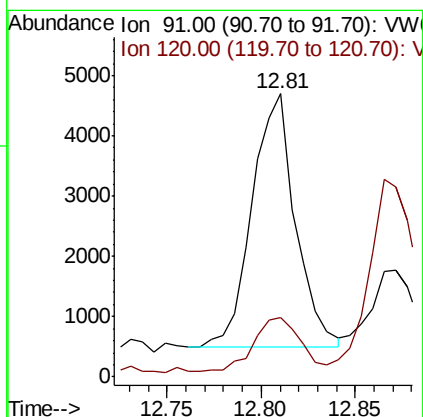
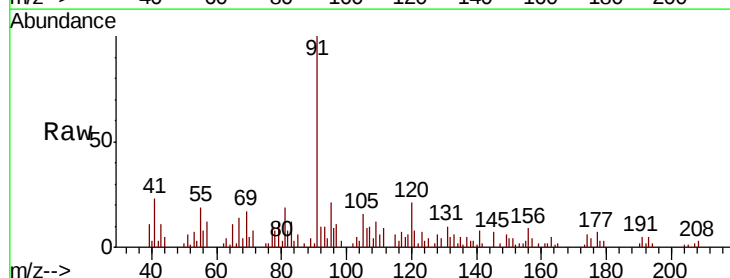
Acq: 03 Jun 2019 20:34

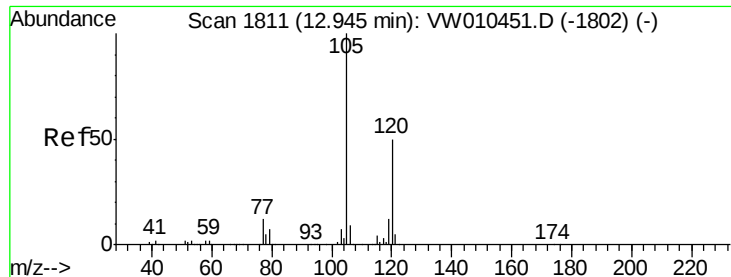
Tgt Ion: 91 Resp: 6714

Ion Ratio Lower Upper

91 100

120 22.0 12.3 36.8

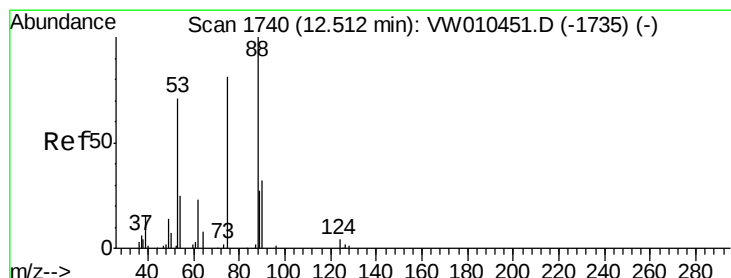
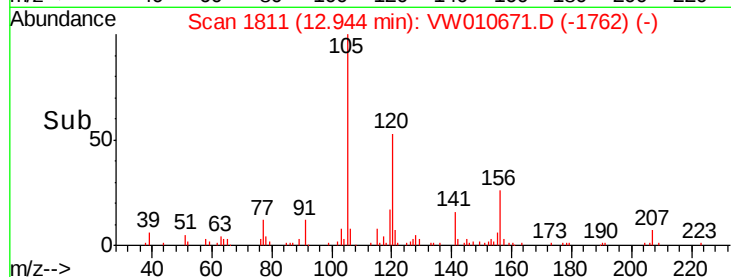
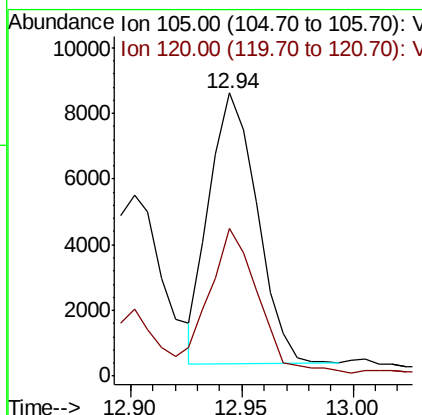
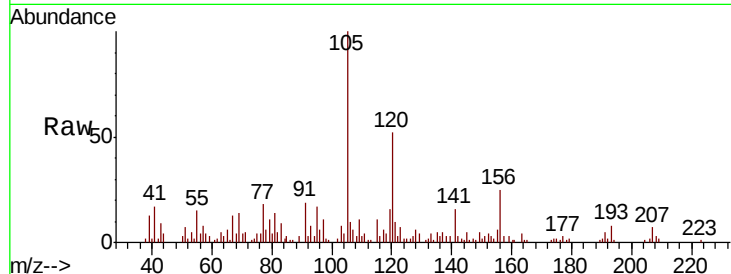




#80
 1,3,5-Trimethylbenzene
 Concen: 3.303 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010671.D
 Acq: 03 Jun 2019 20:34

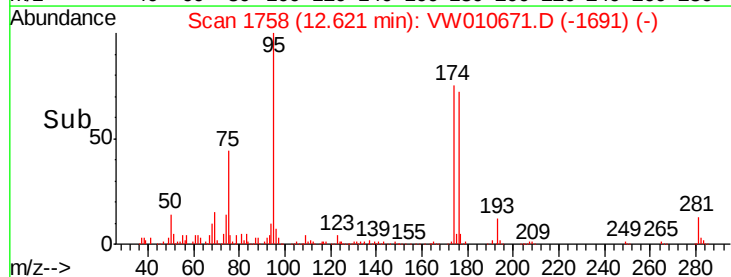
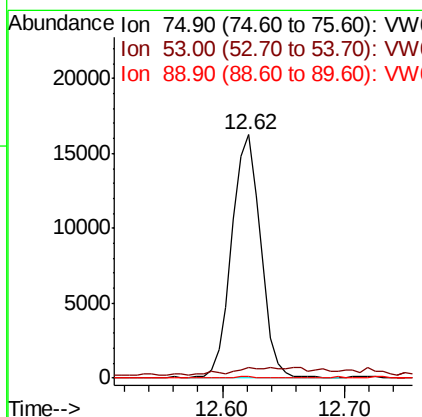
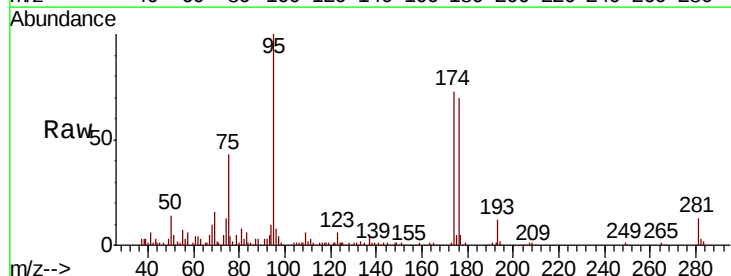
Instrument :
 MSVOA_W
 ClientSampled :

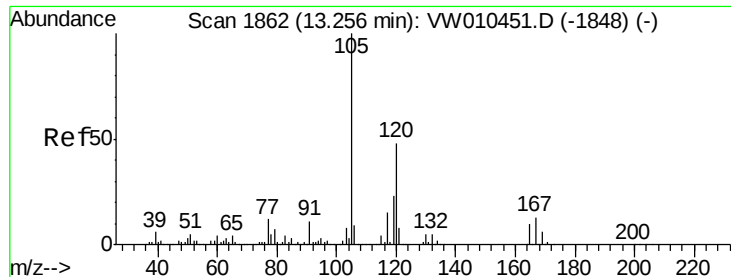
Tot Ion:105 Resp: 12292
 Ion Ratio Lower Upper
 105 100
 120 54.9 25.2 75.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 98.455 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW010671.D
 Acq: 03 Jun 2019 20:34

Tgt Ion: 75 Resp: 26519
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.8#
 89 0.3 39.5 59.3#

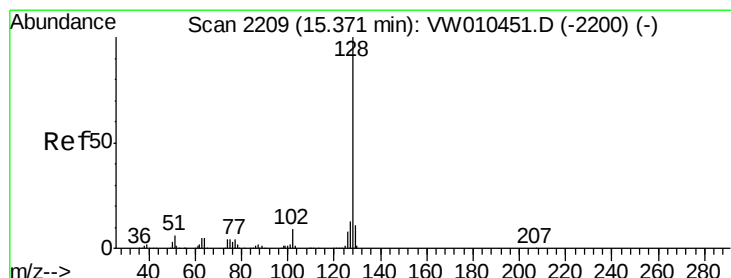
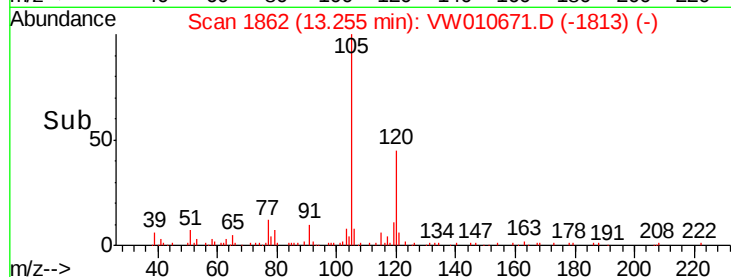
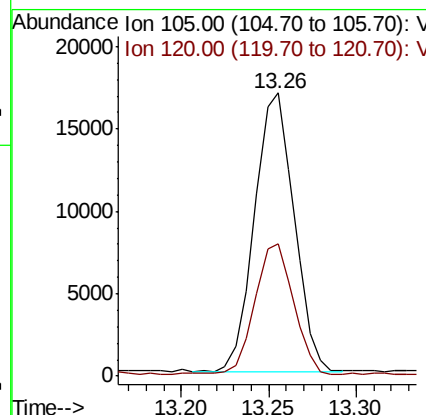
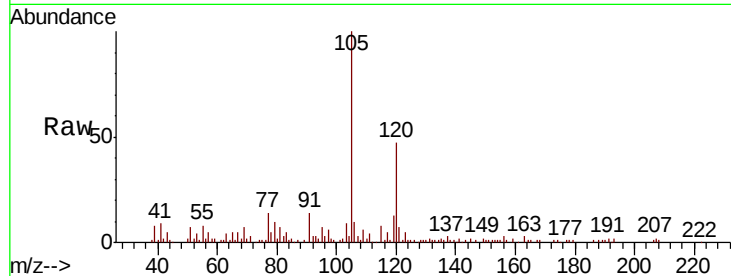




#84
 1,2,4-Trimethylbenzene
 Concen: 7.223 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW010671.D
 Acq: 03 Jun 2019 20:34

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:105 Resp: 26777
 Ion Ratio Lower Upper
 105 100
 120 45.4 23.4 70.2



#95
 Naphthalene
 Concen: 42.602 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.00 min
 Lab File: VW010671.D
 Acq: 03 Jun 2019 20:34

Tgt Ion:128 Resp: 106967
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.6 15.8
 129 11.4 8.9 13.3

