

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101918\
 Data File : VW006237.D
 Acq On : 19 Oct 2018 20:30
 Operator : VA/AP
 Sample : J5197-03RE
 Misc : 5.47G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-101918RE

Quant Time: Oct 20 01:21:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 18 17:01:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	194435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	291284	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	232887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	95697	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	98034	60.82	ug/l	0.00
Spiked Amount			Recovery	=	121.64%	
35) Dibromofluoromethane	7.89	113	91649	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
50) Toluene-d8	10.33	98	307586	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
62) 4-Bromofluorobenzene	12.63	95	97614	39.69	ug/l	0.00
Spiked Amount			Recovery	=	79.38%	

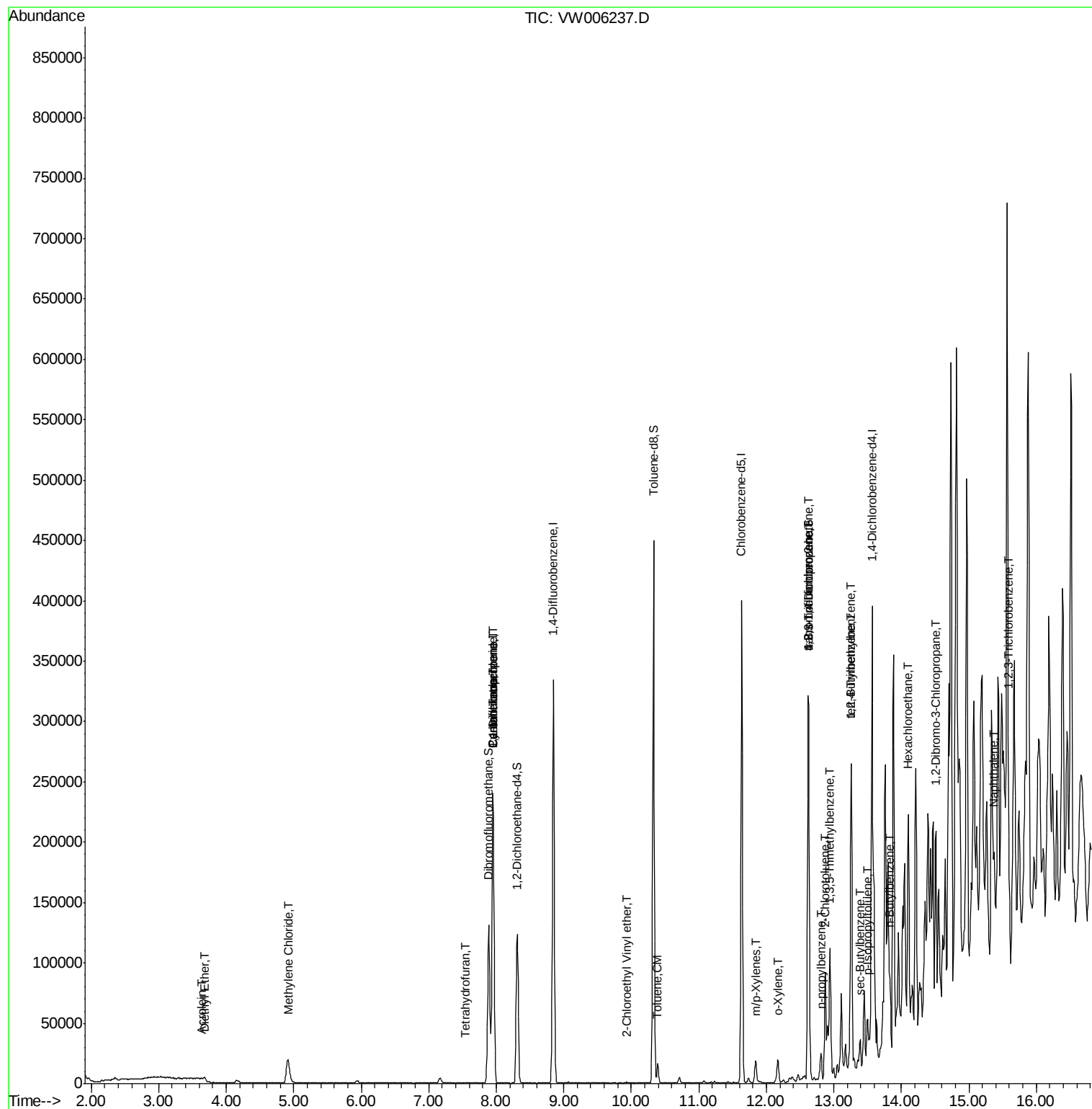
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	2396	2.736	ug/l	97
13) Acrolein	3.63	56	120	1.144	ug/l #	16
16) Acetone	4.15	43	4228	Below Cal		97
20) Methylene Chloride	4.91	84	17734	9.065	ug/l	93
29) Tetrahydrofuran	7.55	42	384	1.435	ug/l #	52
31) Cyclohexane	7.95	56	3596	1.219	ug/l #	10
36) 1,1-Dichloropropene	7.95	75	12642	4.709	ug/l #	48
38) Carbon Tetrachloride	7.95	117	17678	6.006	ug/l #	16
52) Toluene	10.39	92	6933	1.404	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	688	1.045	ug/l #	83
68) m/p-Xylenes	11.84	106	4899	1.435	ug/l	95
69) o-Xylene	12.17	106	4837	1.486	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	48859	66.844	ug/l #	100
78) n-propylbenzene	12.81	91	16636	2.115	ug/l	100
79) 2-Chlorotoluene	12.87	91	6665	1.508	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.95	105	32651	5.729	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	48859	159.784	ug/l #	10
83) tert-Butylbenzene	13.26	119	18045	3.539	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.26	105	144611	25.074	ug/l	100
85) sec-Butylbenzene	13.39	105	14034	1.948	ug/l	86
86) p-Isopropyltoluene	13.51	119	11225	1.723	ug/l	98
89) n-Butylbenzene	13.83	91	30714	5.154	ug/l #	78
90) Hexachloroethane	14.11	117	8851	8.019	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.51	75	498	2.705	ug/l #	8
95) Naphthalene	15.38	128	41338	10.986	ug/l	96
96) 1,2,3-Trichlorobenzene	15.59	180	2274	1.162	ug/l #	26

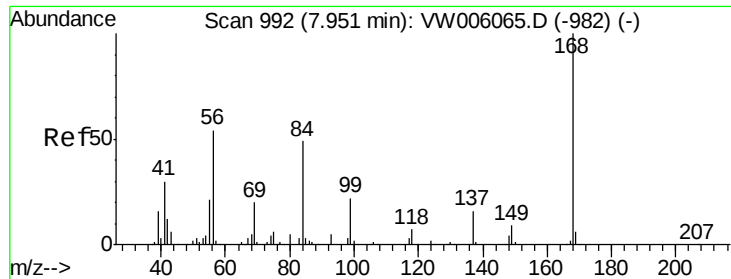
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 18 17:01:24 2018
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: VW006237.D

Acq: 19 Oct 2018 20:30

Instrument :

MSVOA_W

ClientSampleId :

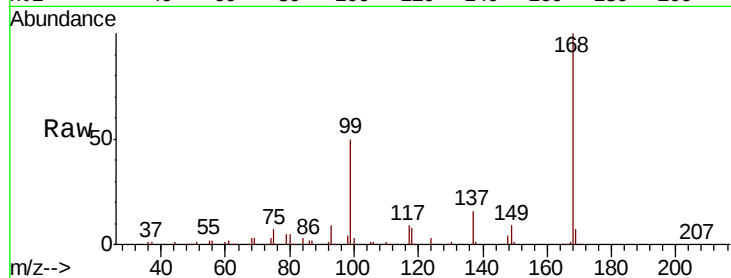
HD-02-101918RE

Tot Ion:168 Resp: 194435

Ion Ratio Lower Upper

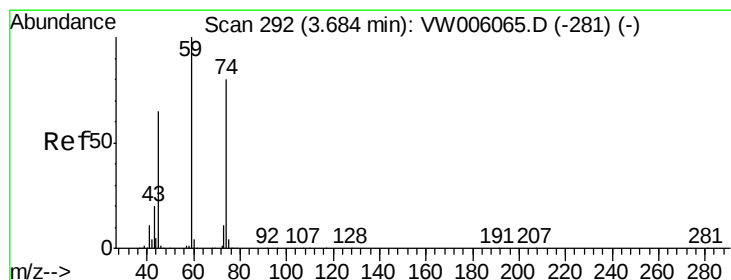
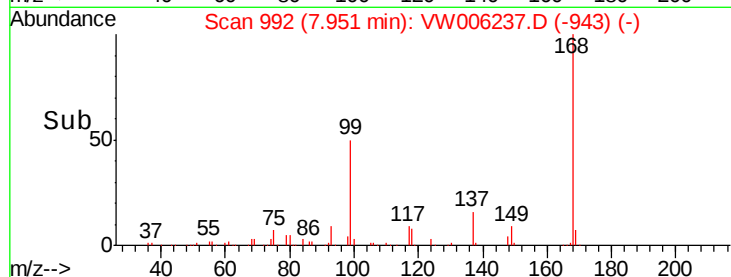
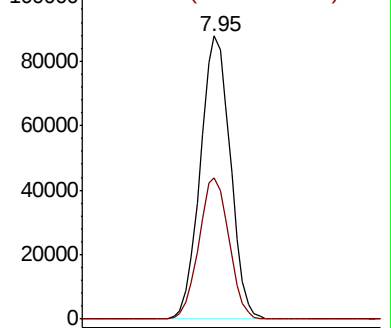
168 100

99 50.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.736 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW006237.D

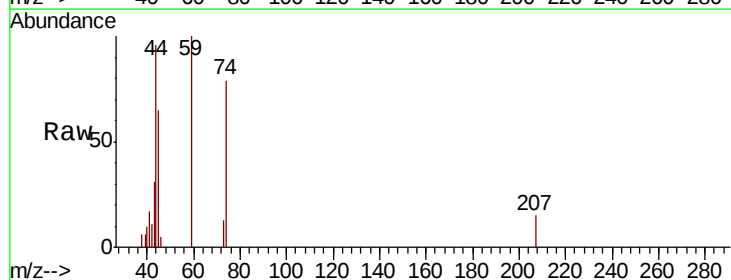
Acq: 19 Oct 2018 20:30

Tgt Ion: 74 Resp: 2396

Ion Ratio Lower Upper

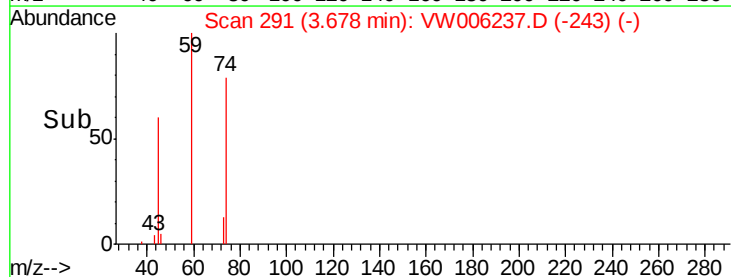
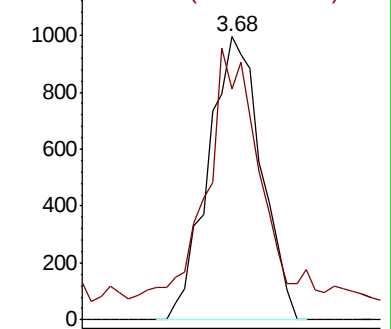
74 100

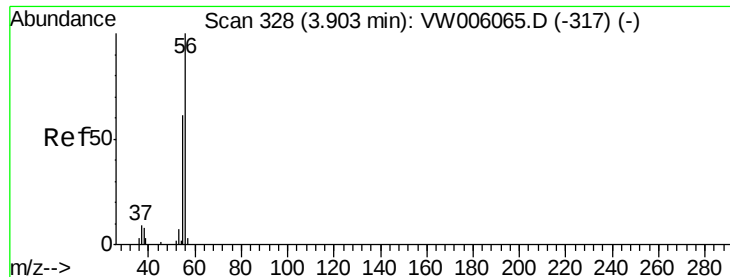
45 82.9 42.8 128.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

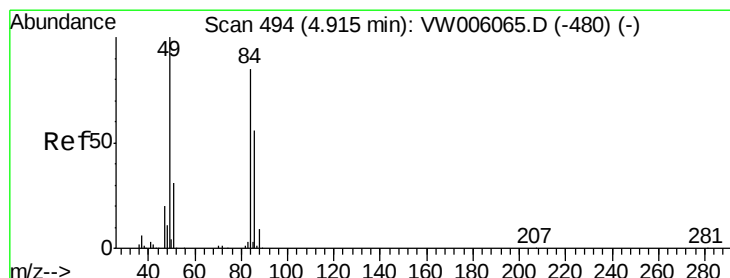
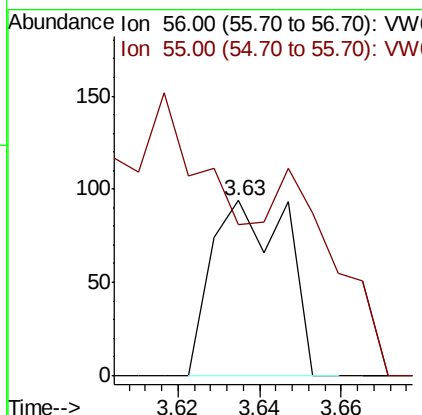
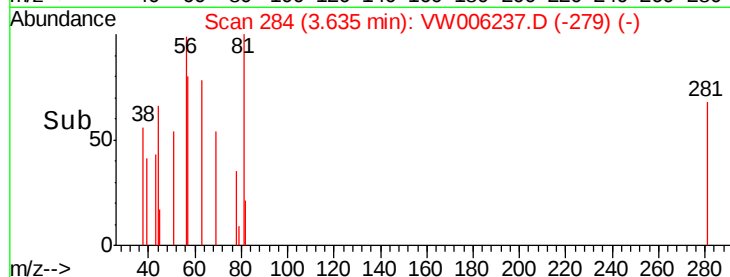
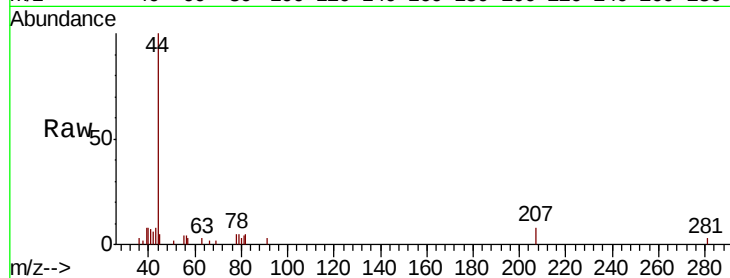




#13
Acrolein
Concen: 1.144 ug/l
RT: 3.63 min Scan# 284
Delta R.T. -0.27 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

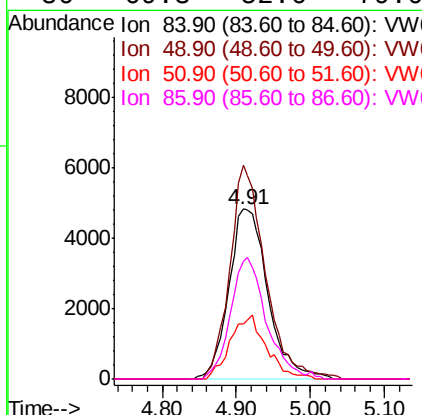
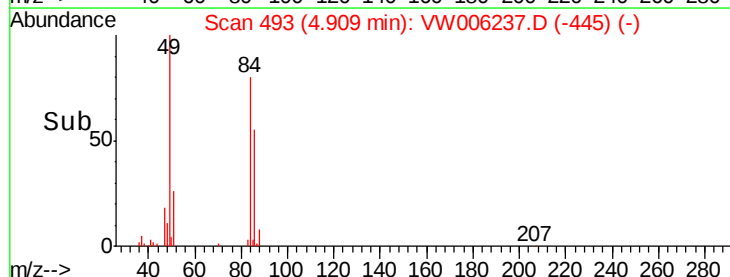
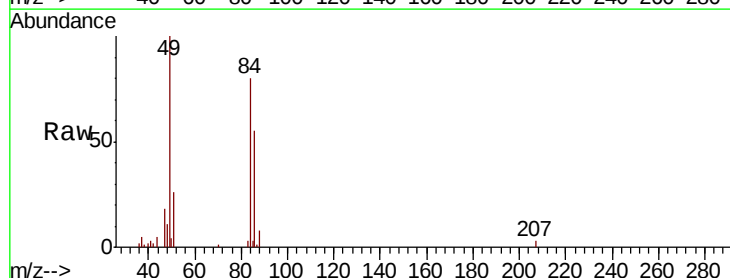
Instrument :
MSVOA_W
ClientSampleId :
HD-02-101918RE

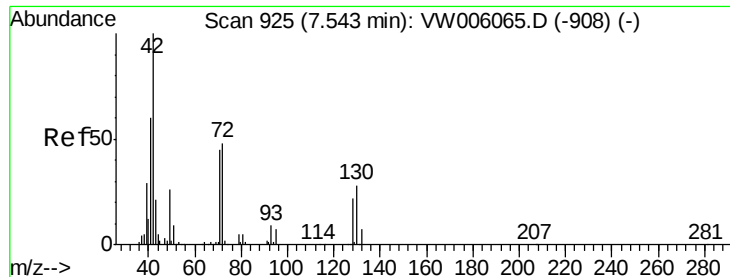
Tot Ion: 56 Resp: 120
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#20
Methylene Chloride
Concen: 9.065 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

Tgt Ion: 84 Resp: 17734
Ion Ratio Lower Upper
84 100
49 125.8 93.6 140.4
51 32.1 29.0 43.4
86 69.3 52.6 79.0





#29

Tetrahydrofuran

Concen: 1.435 ug/l

RT: 7.55 min Scan# 927

Delta R.T. 0.01 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

Instrument :

MSVOA_W

ClientSampleId :

HD-02-101918RE

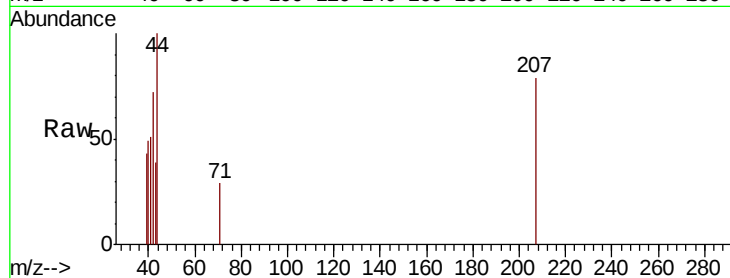
Tot Ion: 42 Resp: 384

Ion Ratio Lower Upper

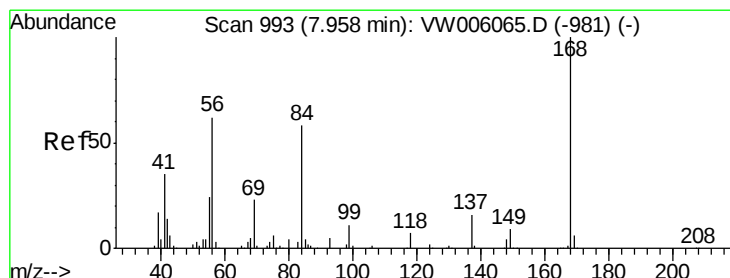
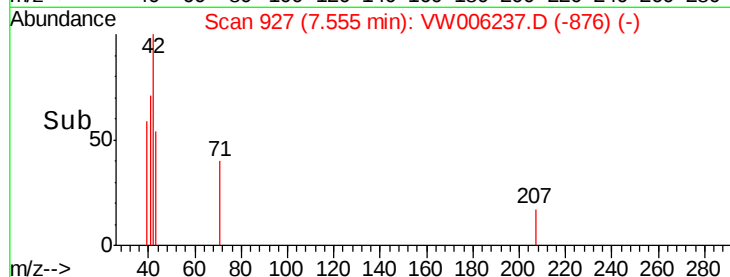
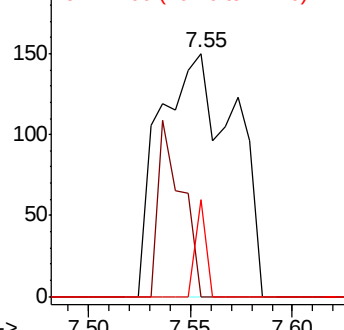
42 100

72 22.7 38.0 57.0#

71 5.7 35.3 52.9#



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.219 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

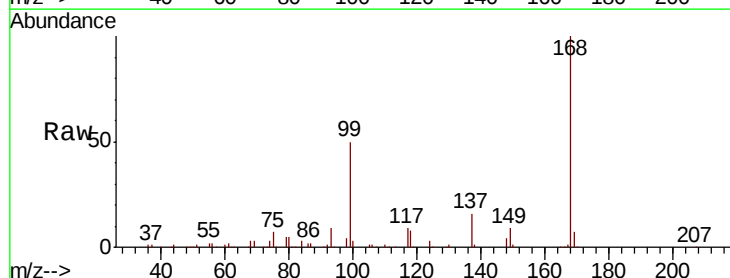
Tgt Ion: 56 Resp: 3596

Ion Ratio Lower Upper

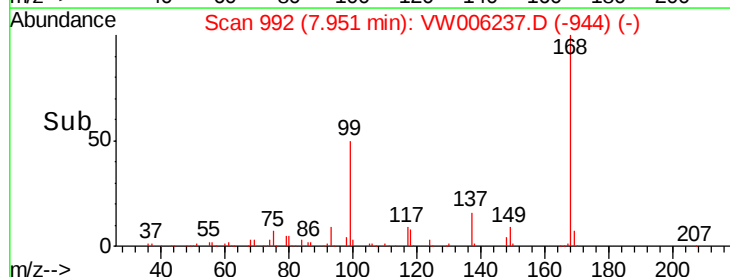
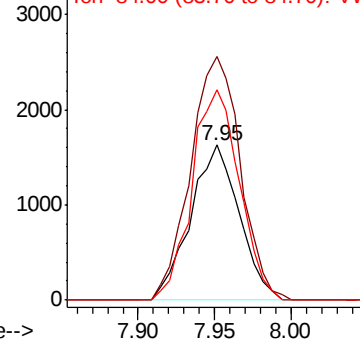
56 100

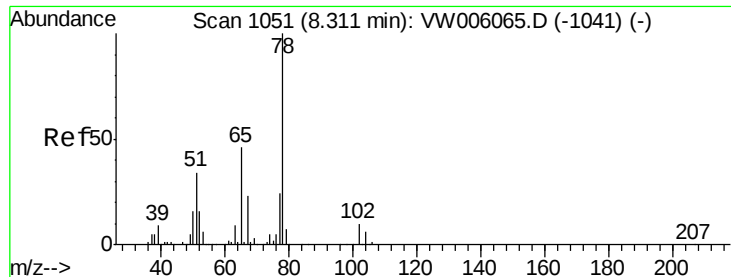
69 157.3 29.4 44.0#

84 135.8 74.0 111.0#



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: 60.816 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

Instrument :

MSVOA_W

ClientSampleId :

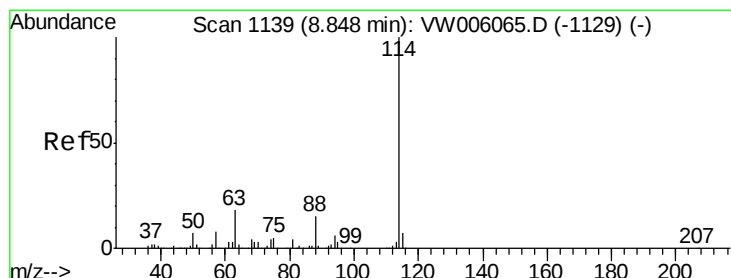
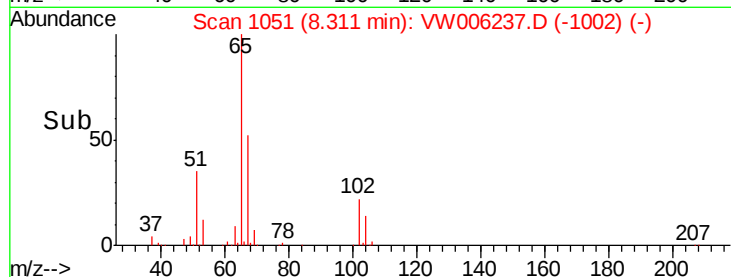
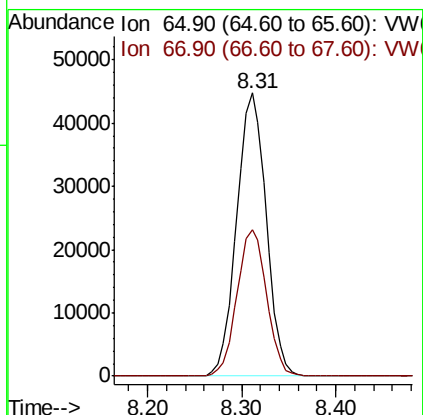
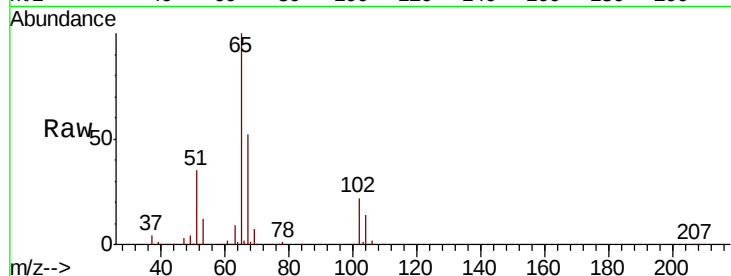
HD-02-101918RE

Tot Ion: 65 Resp: 98034

Ion Ratio Lower Upper

65 100

67 51.8 0.0 101.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

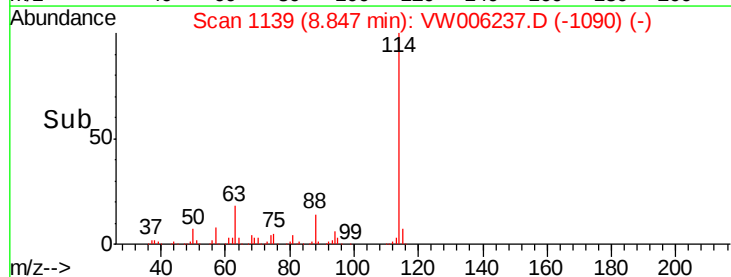
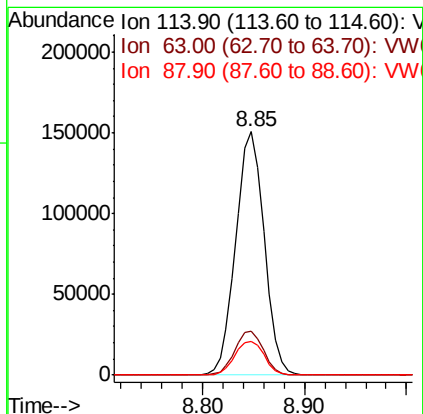
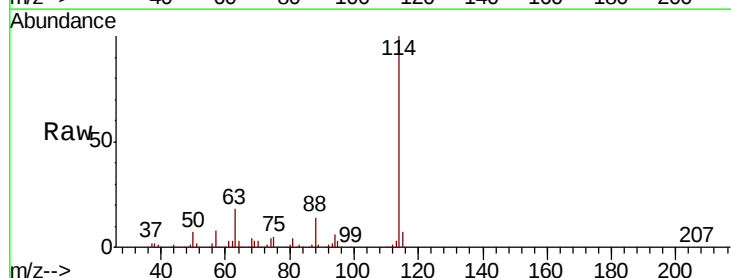
Tgt Ion: 114 Resp: 291284

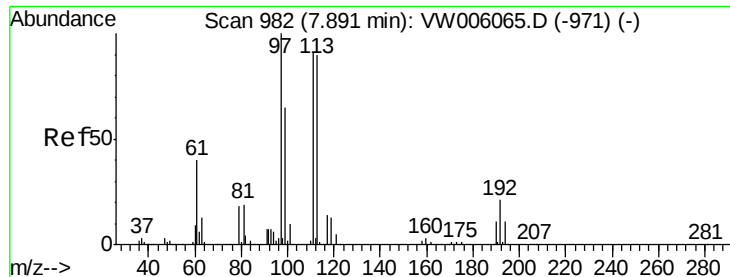
Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.8

88 13.9 0.0 29.0

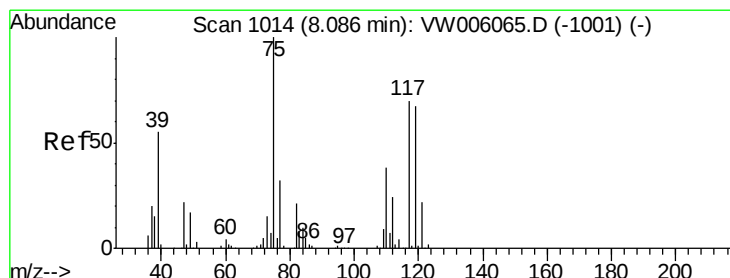
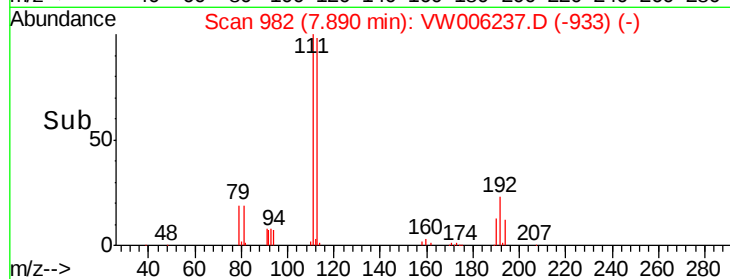
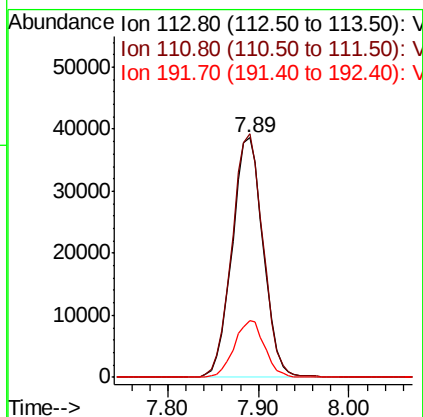
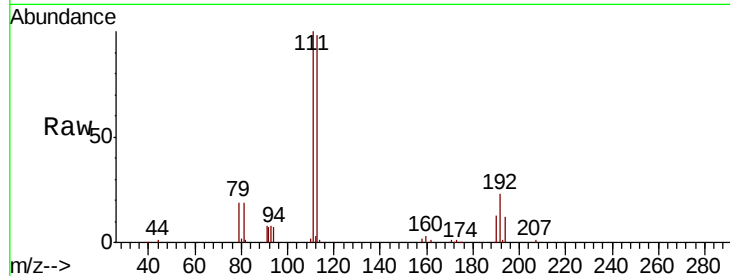




#35
 Dibromofluoromethane
 Concen: 53.248 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW006237.D
 Acq: 19 Oct 2018 20:30

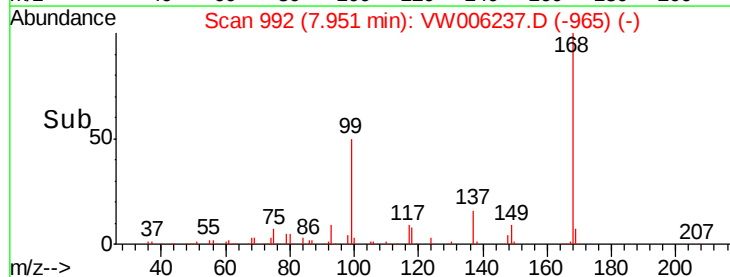
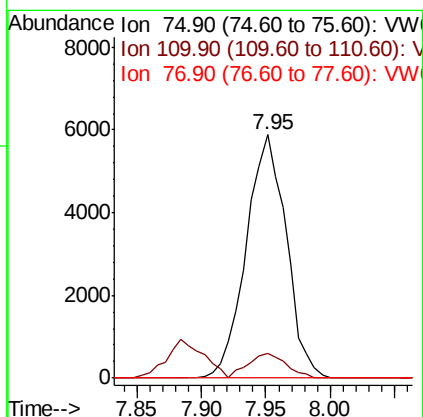
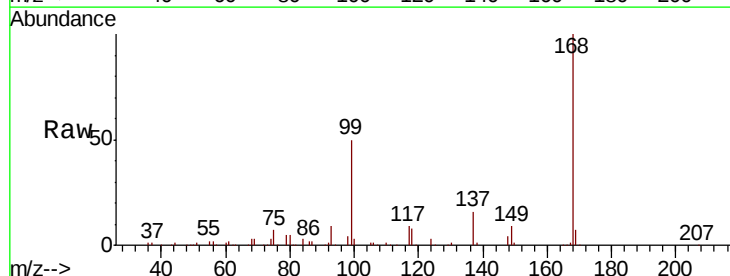
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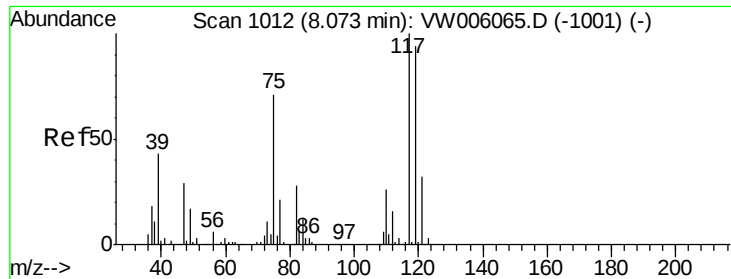
Tot Ion:113 Resp: 91649
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.4 122.0
 192 23.1 18.7 28.1



#36
 1,1-Dichloropropene
 Concen: 4.709 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW006237.D
 Acq: 19 Oct 2018 20:30

Tgt Ion: 75 Resp: 12642
 Ion Ratio Lower Upper
 75 100
 110 9.5 19.1 57.1#
 77 0.0 25.0 37.4#

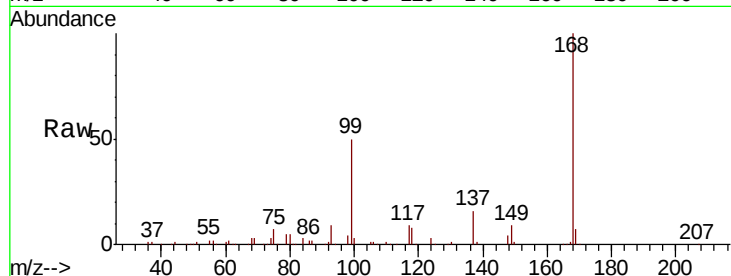




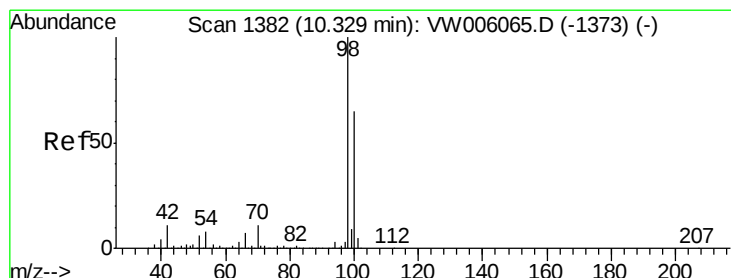
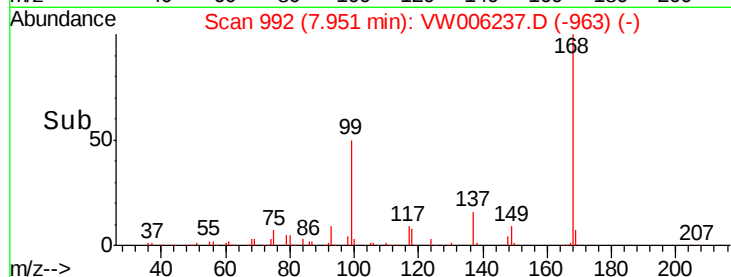
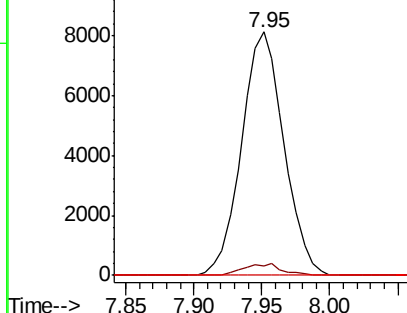
#38
Carbon Tetrachloride
Concen: 6.006 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

Instrument :
MSVOA_W
ClientSampleId :
HD-02-101918RE

Tot Ion:117 Resp: 17678
Ion Ratio Lower Upper
117 100
119 4.1 75.2 112.8#
121 0.0 25.3 37.9#

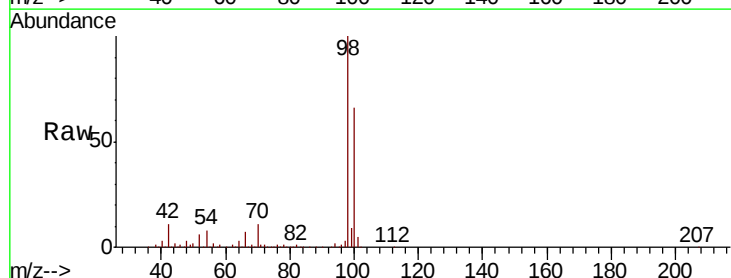


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

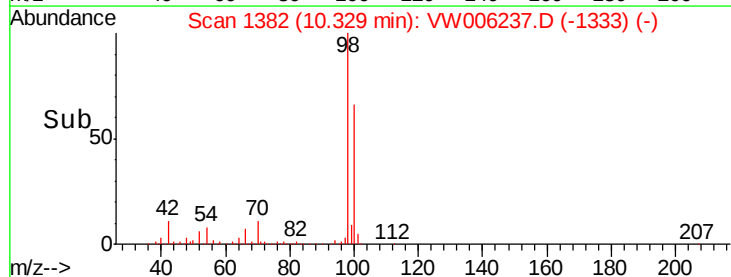
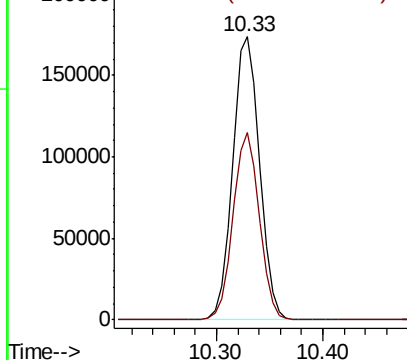


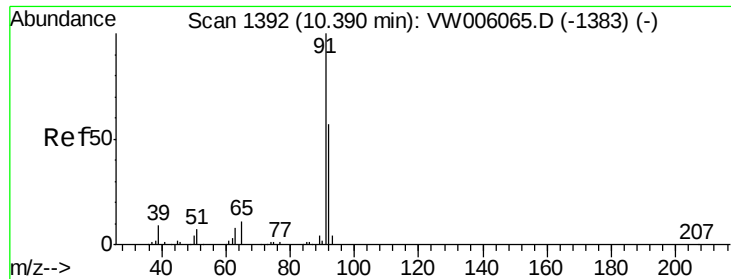
#50
Toluene-d8
Concen: 46.972 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

Tgt Ion: 98 Resp: 307586
Ion Ratio Lower Upper
98 100
100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 1.404 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

Instrument :

MSVOA_W

ClientSampleId :

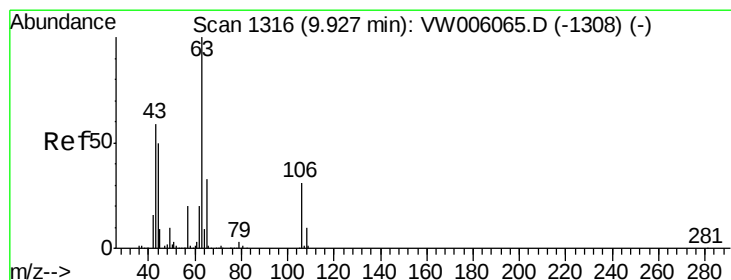
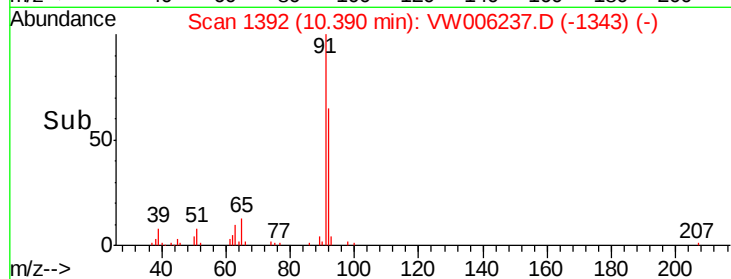
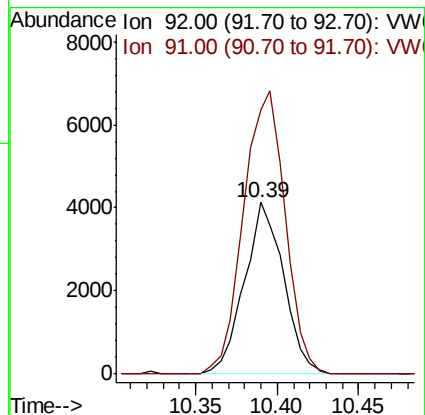
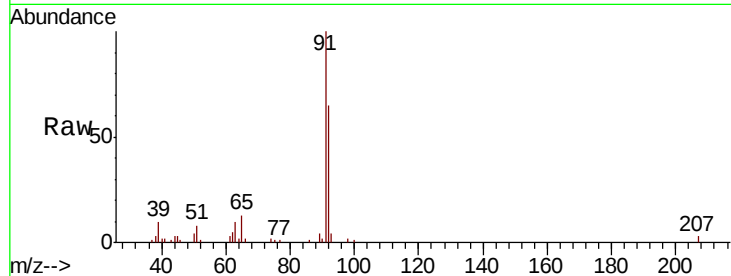
HD-02-101918RE

Tot Ion: 92 Resp: 6933

Ion Ratio Lower Upper

92 100

91 174.6 140.0 210.0



#58

2-Chloroethyl Vinyl ether

Concen: 1.045 ug/l

RT: 9.93 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VW006237.D

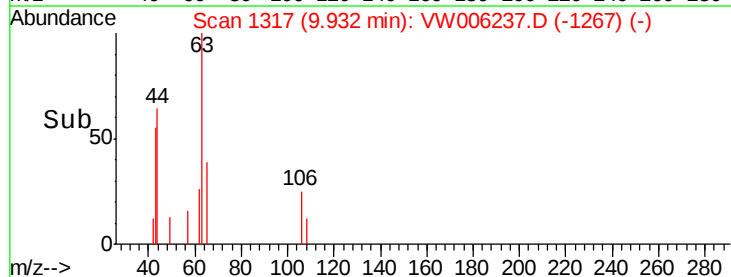
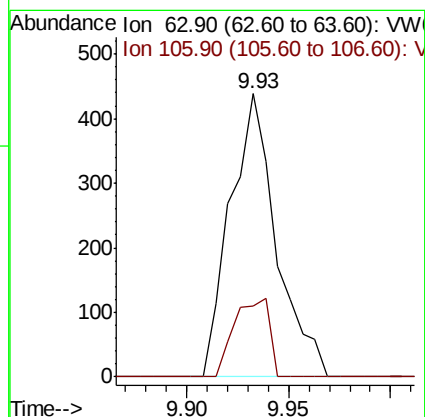
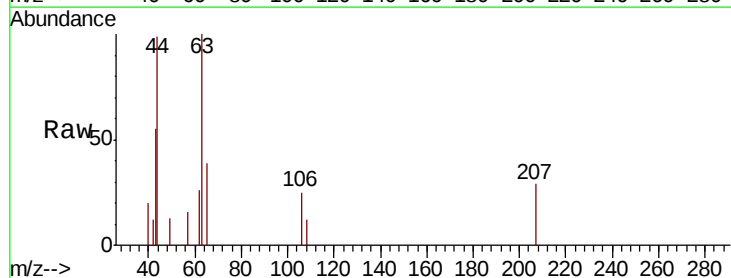
Acq: 19 Oct 2018 20:30

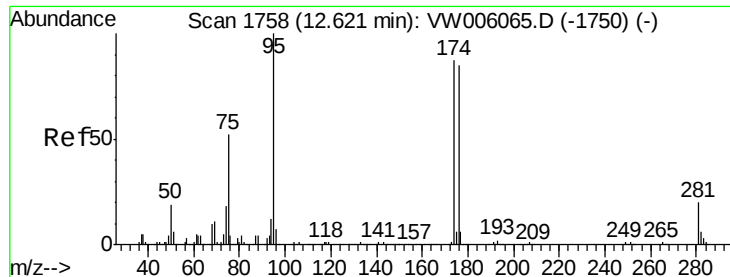
Tgt Ion: 63 Resp: 688

Ion Ratio Lower Upper

63 100

106 21.1 24.5 36.7#





#62

4-Bromofluorobenzene

Concen: 39.689 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.01 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

Instrument :

MSVOA_W

ClientSampleId :

HD-02-101918RE

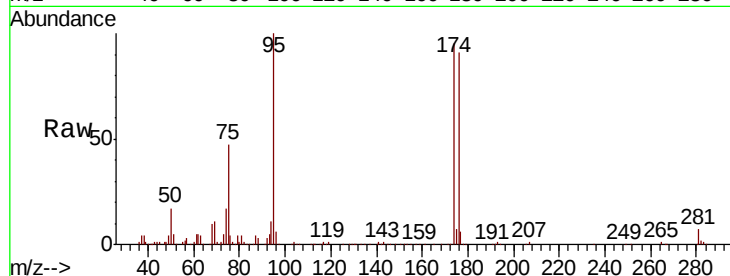
Tot Ion: 95 Resp: 97614

Ion Ratio Lower Upper

95 100

174 93.7 0.0 186.0

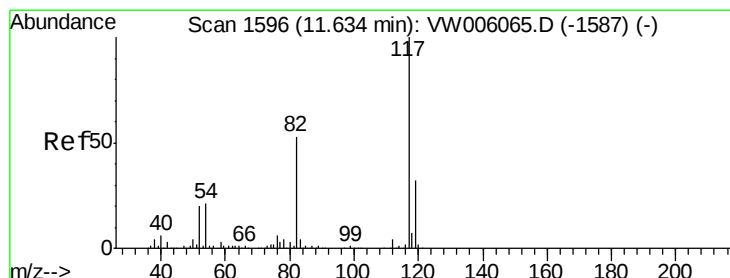
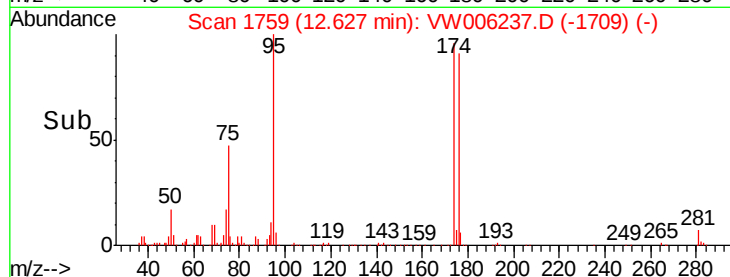
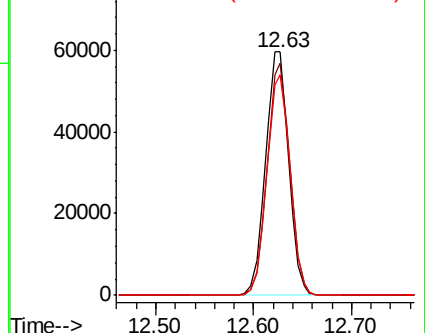
176 90.6 0.0 181.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

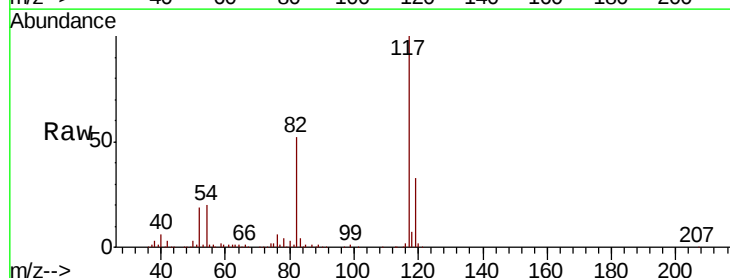
Tgt Ion: 117 Resp: 232887

Ion Ratio Lower Upper

117 100

82 52.2 42.1 63.1

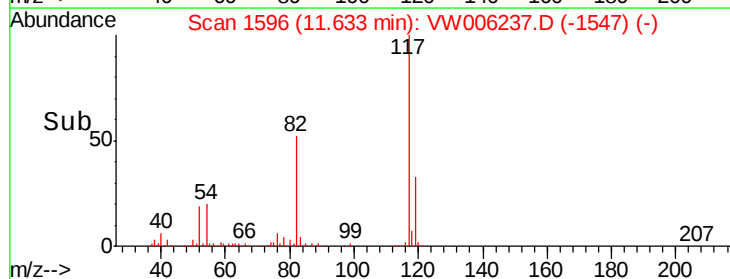
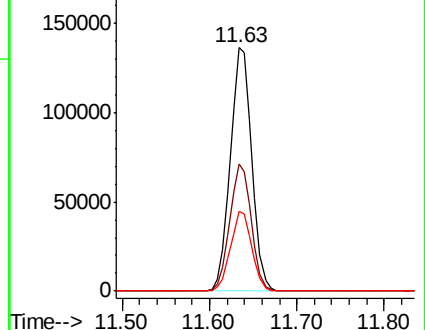
119 32.7 25.8 38.6

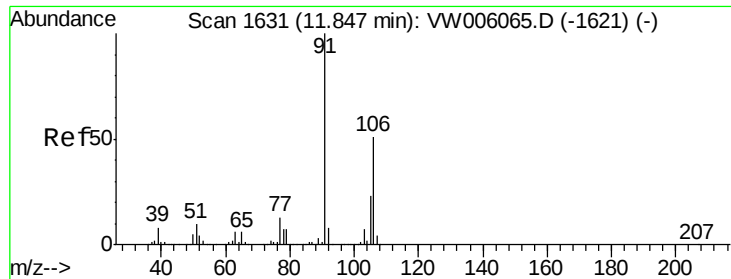


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

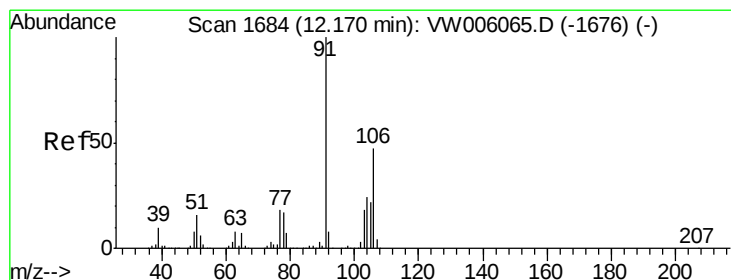
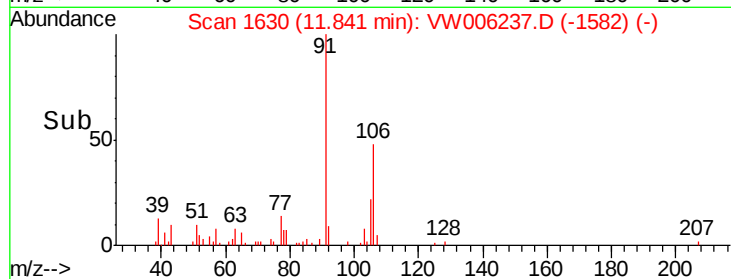
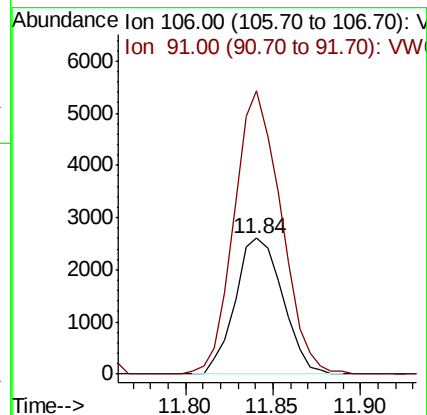
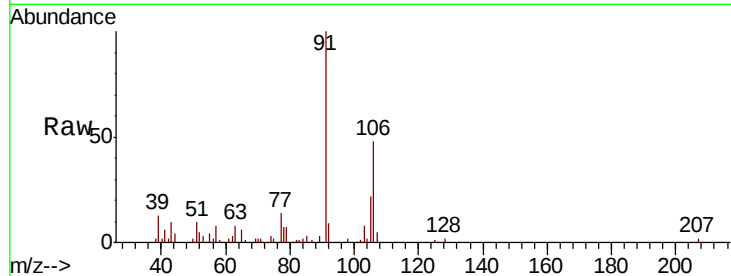




#68
m/p-Xylenes
Concen: 1.435 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

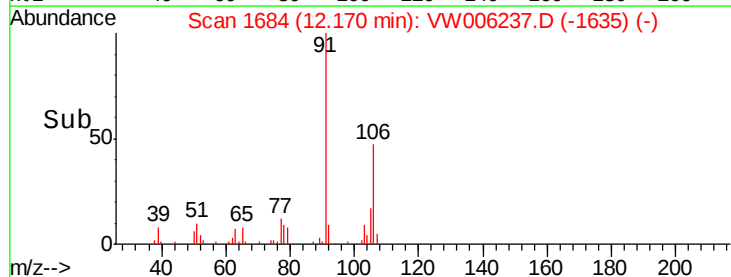
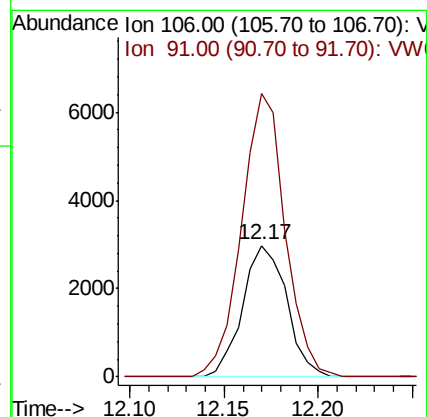
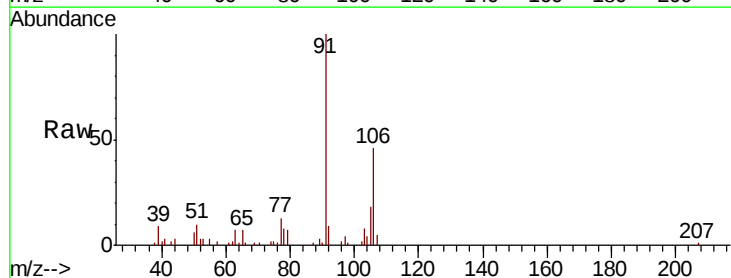
Instrument :
MSVOA_W
ClientSampleId :
HD-02-101918RE

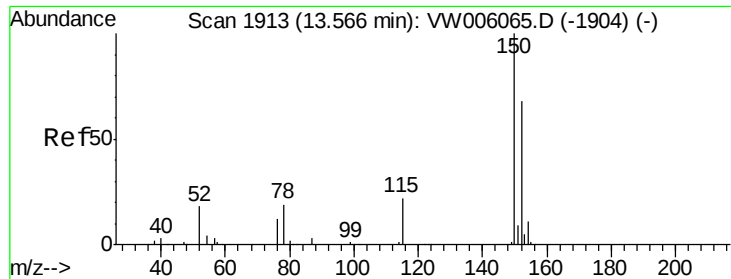
Tot Ion:106 Resp: 4899
Ion Ratio Lower Upper
106 100
91 206.9 159.1 238.7



#69
o-Xylene
Concen: 1.486 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

Tgt Ion:106 Resp: 4837
Ion Ratio Lower Upper
106 100
91 212.4 105.4 316.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

Instrument :

MSVOA_W

ClientSampleId :

HD-02-101918RE

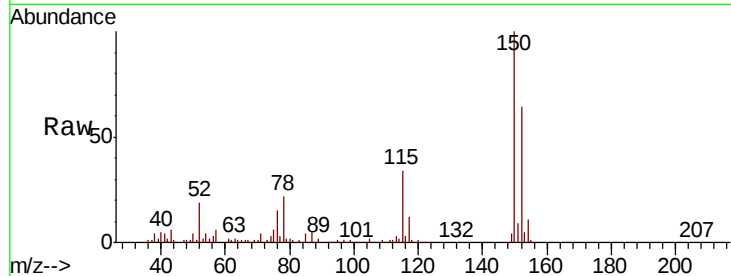
Tot Ion:152 Resp: 95697

Ion Ratio Lower Upper

152 100

115 58.5 27.8 83.3

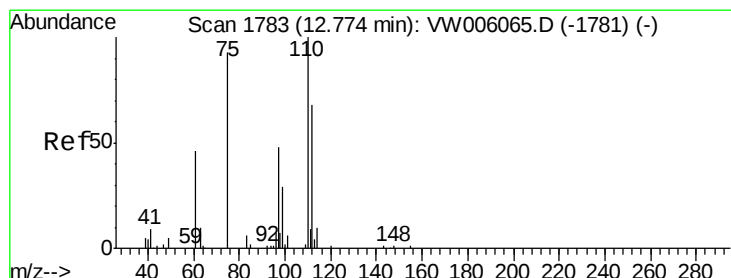
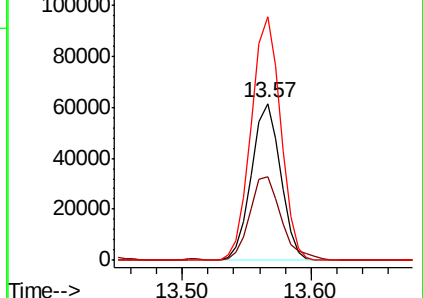
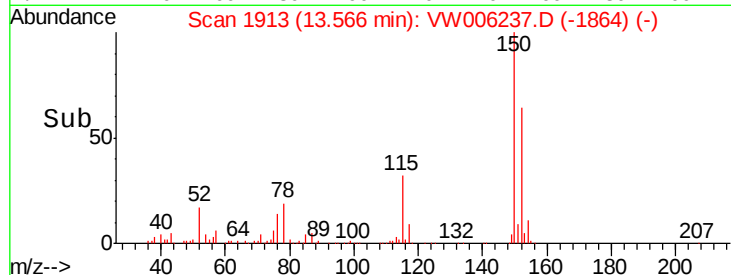
150 156.7 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 66.844 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006237.D

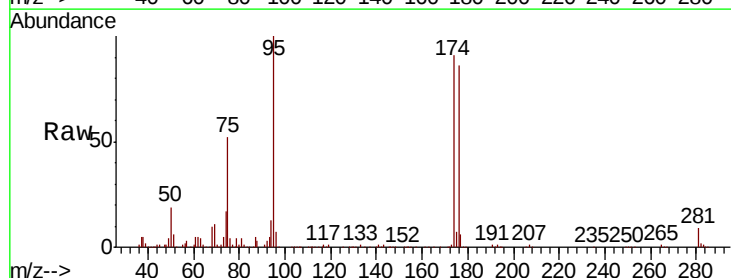
Acq: 19 Oct 2018 20:30

Tgt Ion: 75 Resp: 48859

Ion Ratio Lower Upper

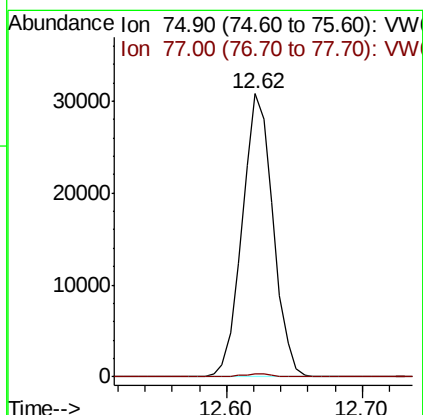
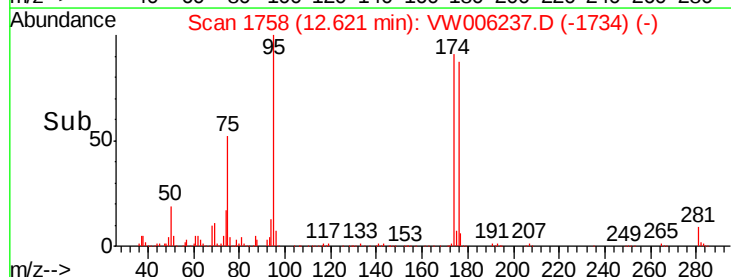
75 100

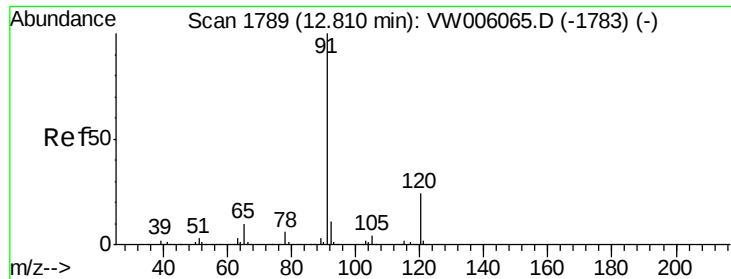
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 2.115 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

Instrument :

MSVOA_W

ClientSampleId :

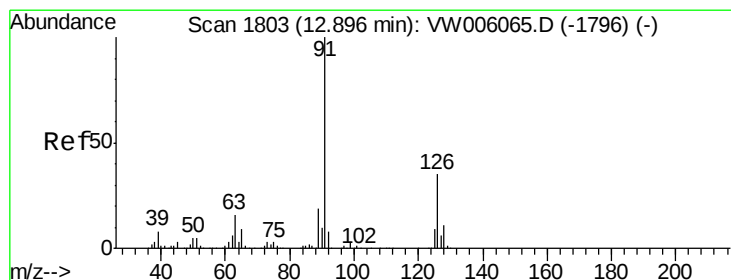
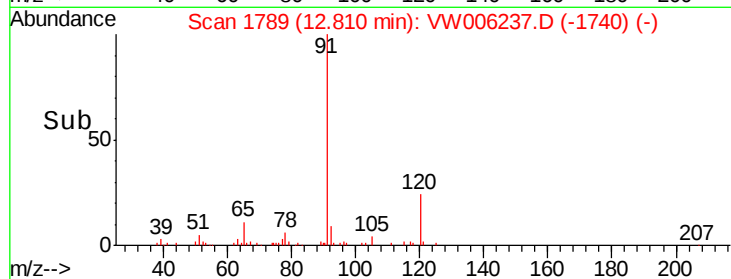
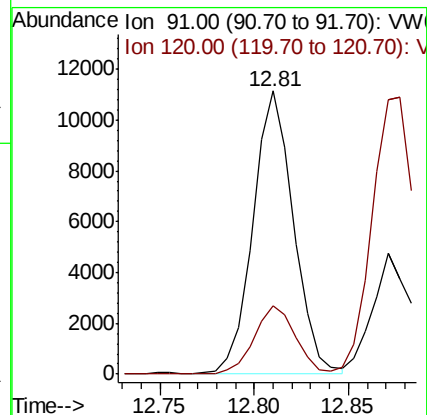
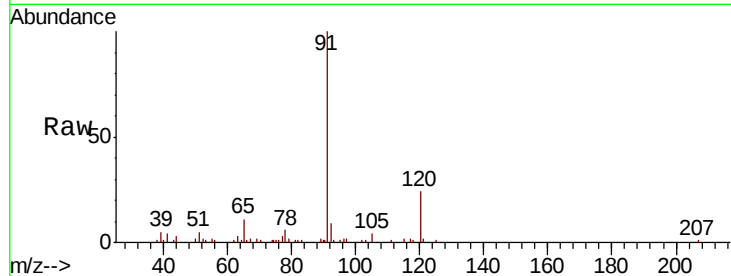
HD-02-101918RE

Tot Ion: 91 Resp: 16636

Ion Ratio Lower Upper

91 100

120 24.6 12.2 36.6



#79

2-Chlorotoluene

Concen: 1.508 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. -0.02 min

Lab File: VW006237.D

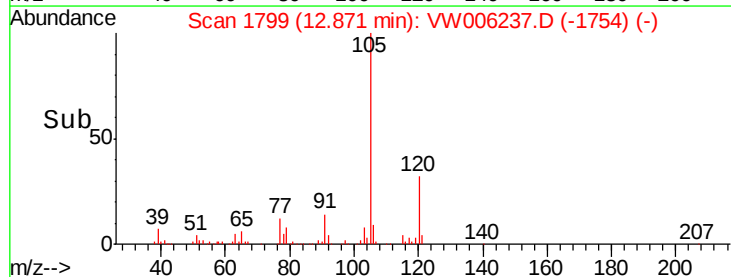
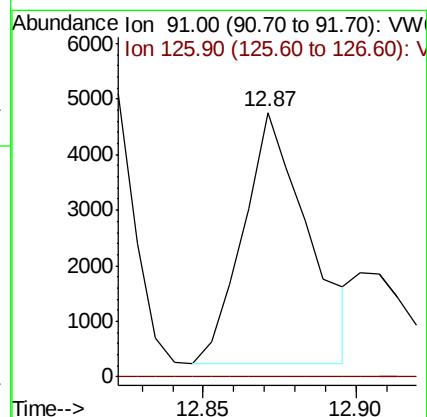
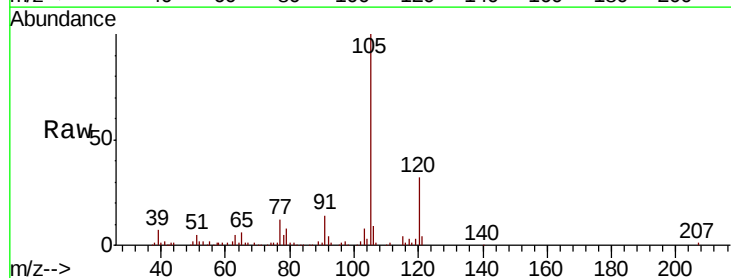
Acq: 19 Oct 2018 20:30

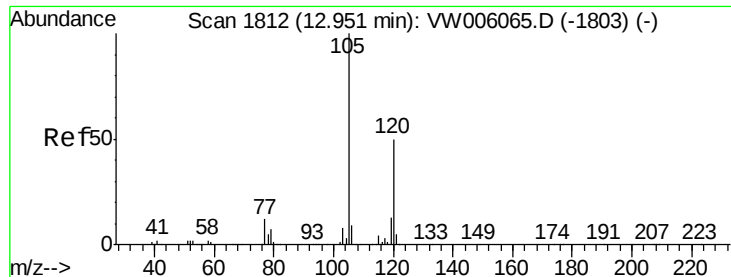
Tgt Ion: 91 Resp: 6665

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.8#

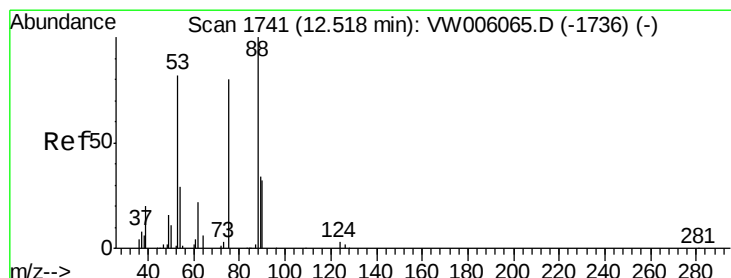
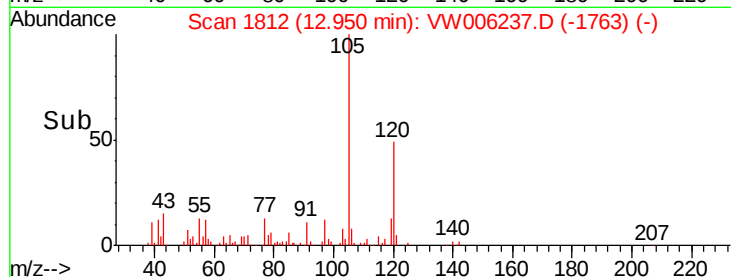
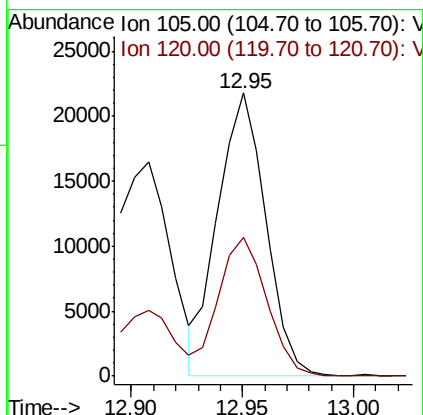
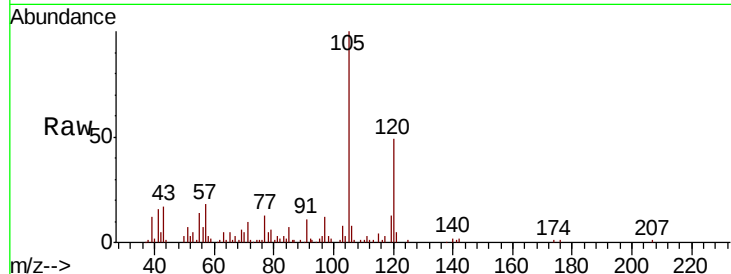




#80
 1,3,5-Trimethylbenzene
 Concen: 5.729 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VW006237.D
 Acq: 19 Oct 2018 20:30

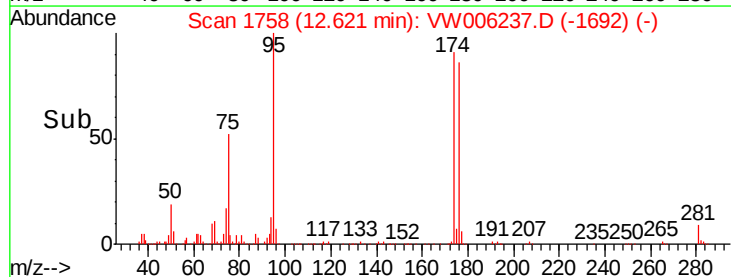
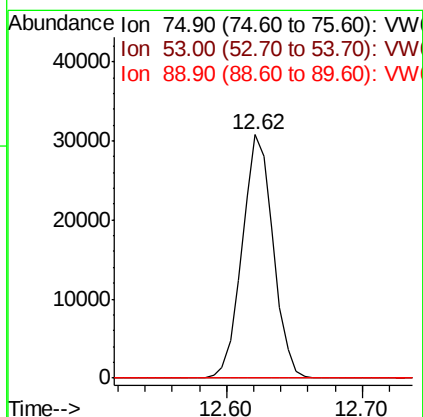
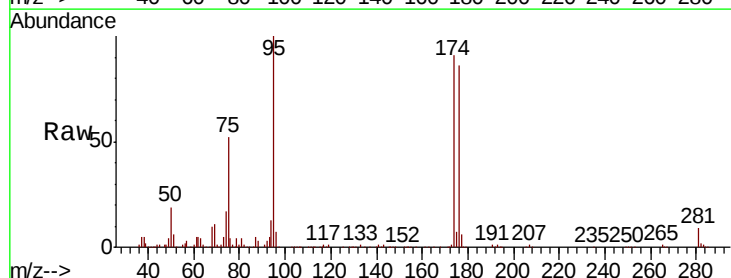
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-101918RE

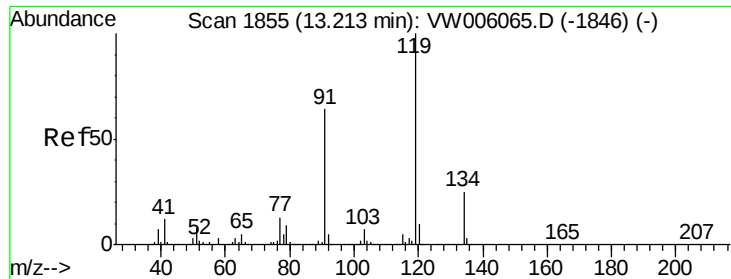
Tot Ion:105 Resp: 32651
 Ion Ratio Lower Upper
 105 100
 120 49.4 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 159.784 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW006237.D
 Acq: 19 Oct 2018 20:30

Tgt Ion: 75 Resp: 48859
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.8 119.6#
 89 0.0 37.5 56.3#

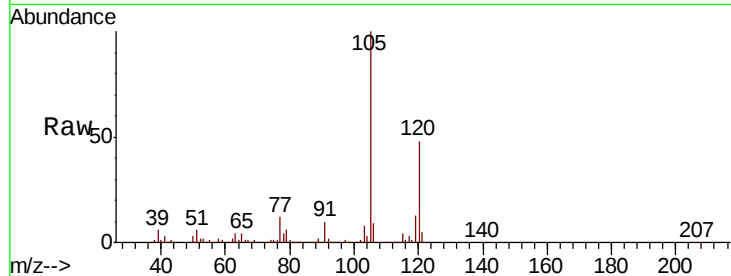




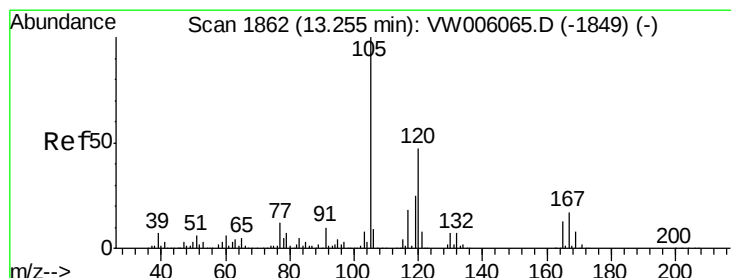
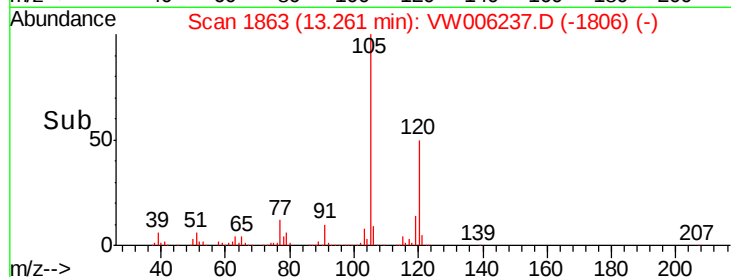
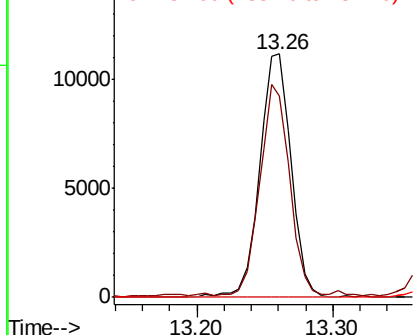
#83
tert-Butylbenzene
Concen: 3.539 ug/l
RT: 13.26 min Scan# 1863
Delta R.T. 0.05 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

Instrument :
MSVOA_W
ClientSampleId :
HD-02-101918RE

Tot Ion:119 Resp: 18045
Ion Ratio Lower Upper
119 100
91 82.0 32.3 96.9
134 0.0 13.6 40.8#

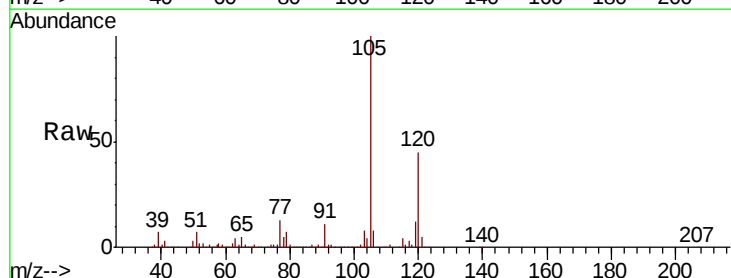


Abundance Ion 119.00 (118.70 to 119.70): V
15000 Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

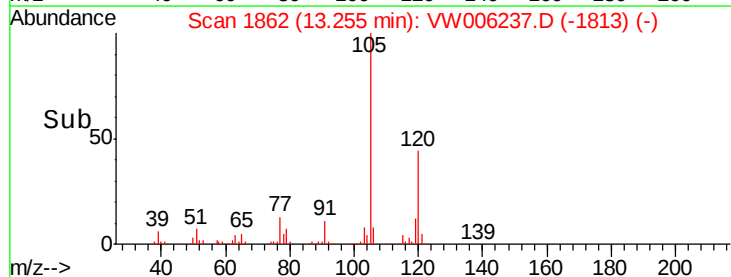
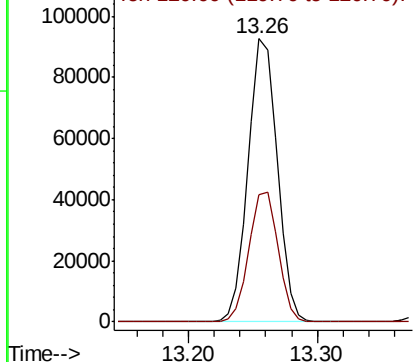


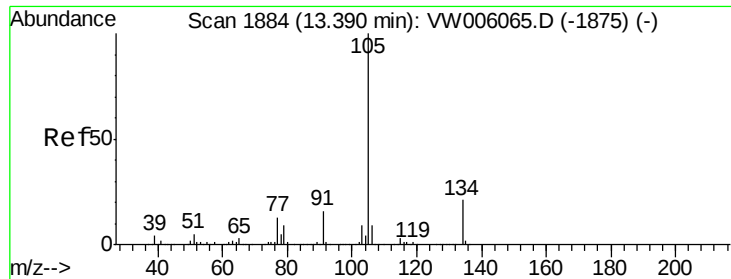
#84
1,2,4-Trimethylbenzene
Concen: 25.074 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

Tgt Ion:105 Resp: 144611
Ion Ratio Lower Upper
105 100
120 45.9 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V
100000 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.948 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

Instrument :

MSVOA_W

ClientSampleId :

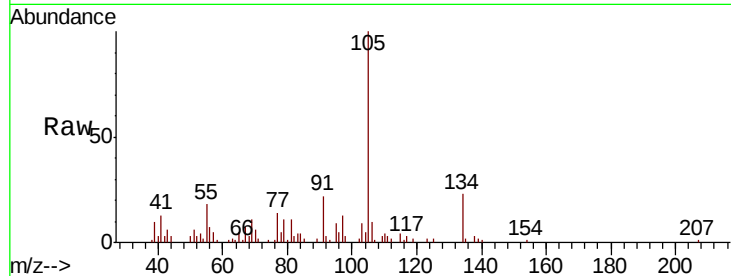
HD-02-101918RE

Tot Ion:105 Resp: 14034

Ion Ratio Lower Upper

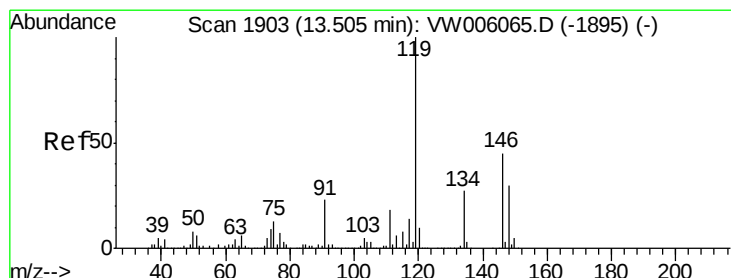
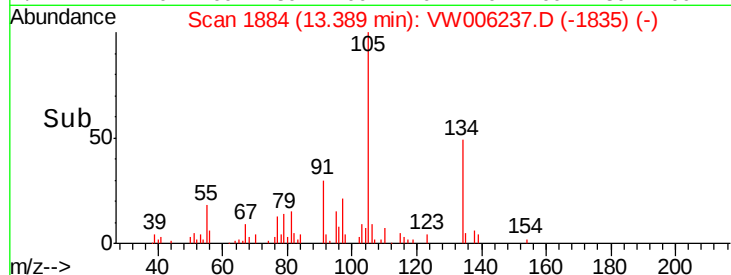
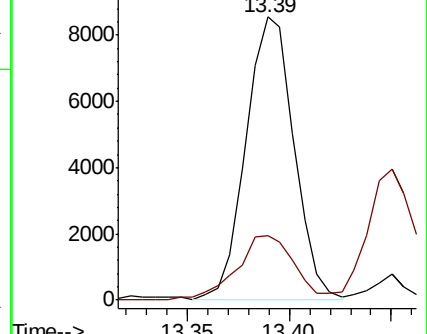
105 100

134 27.5 10.5 31.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.723 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW006237.D

Acq: 19 Oct 2018 20:30

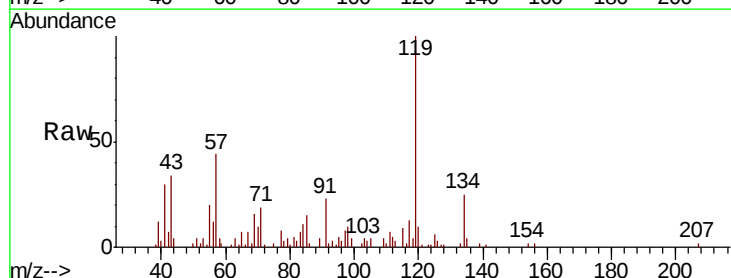
Tgt Ion:119 Resp: 11225

Ion Ratio Lower Upper

119 100

134 26.3 13.4 40.2

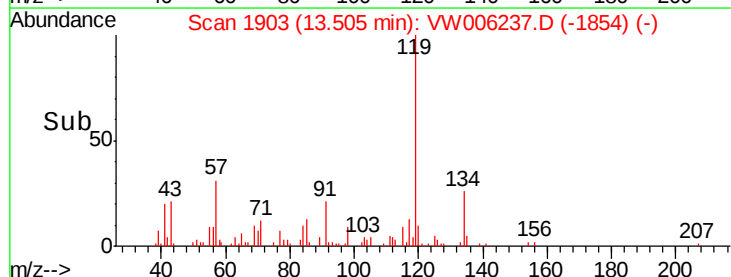
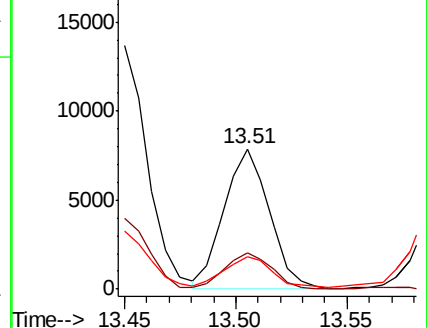
91 21.6 11.4 34.1

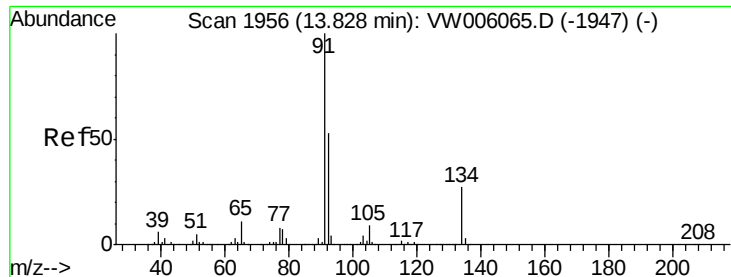


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

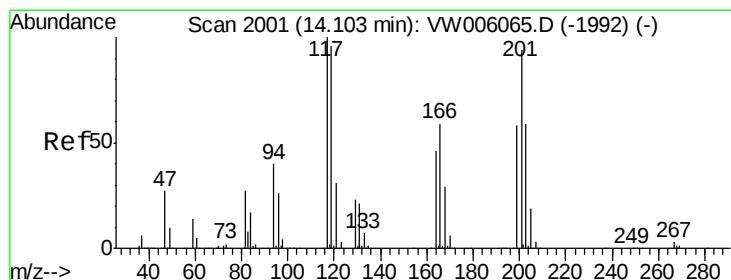
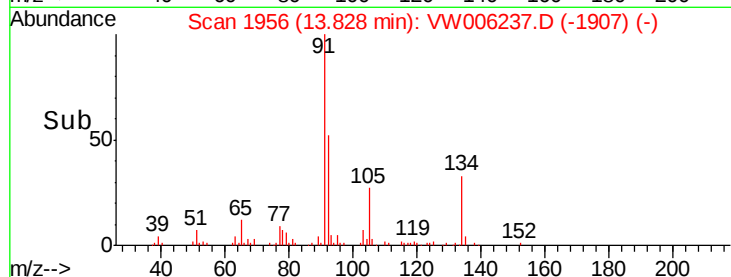
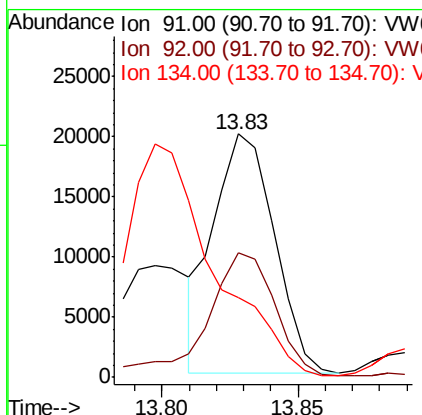
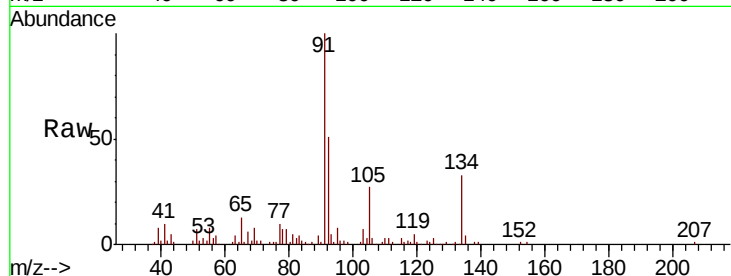




#89
n-Butylbenzene
Concen: 5.154 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

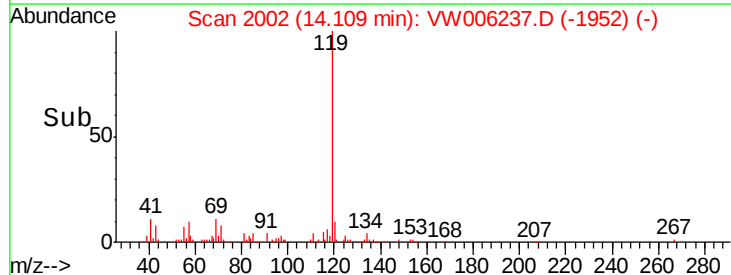
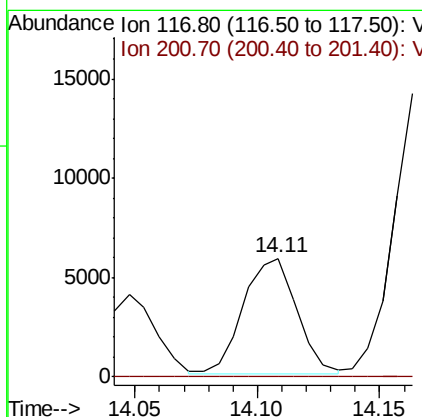
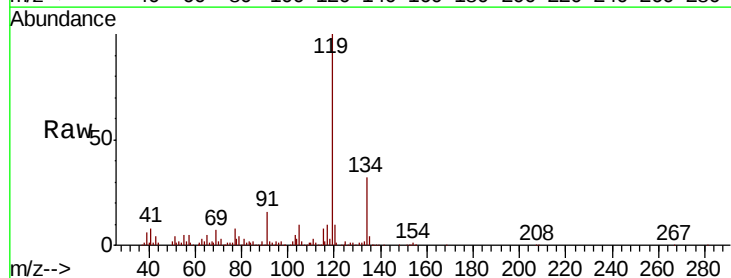
Instrument :
MSVOA_W
ClientSampleId :
HD-02-101918RE

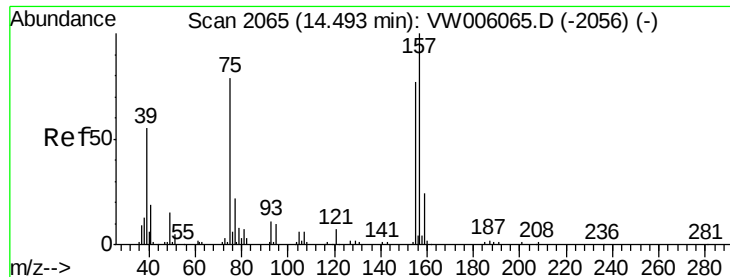
Tot Ion: 91 Resp: 30714
Ion Ratio Lower Upper
91 100
92 57.6 26.6 79.7
134 0.0 14.0 41.9#



#90
Hexachloroethane
Concen: 8.019 ug/l
RT: 14.11 min Scan# 2002
Delta R.T. 0.01 min
Lab File: VW006237.D
Acq: 19 Oct 2018 20:30

Tgt Ion: 117 Resp: 8851
Ion Ratio Lower Upper
117 100
201 0.0 45.3 135.9#

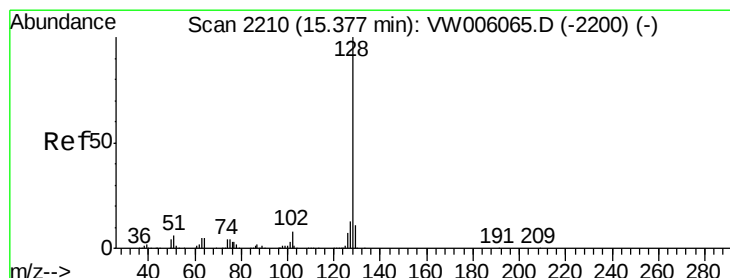
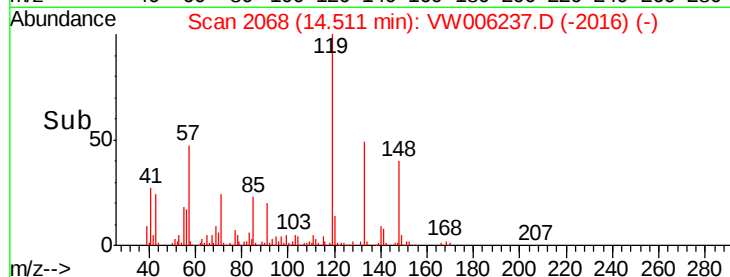
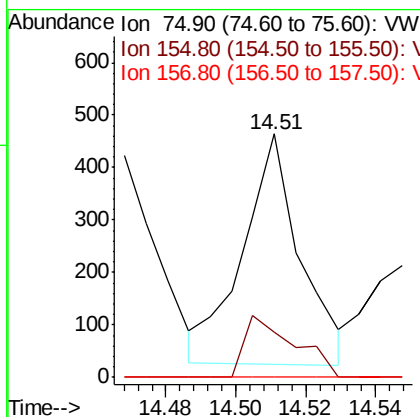
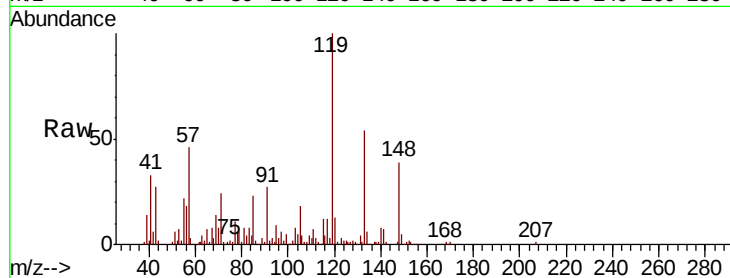




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.705 ug/l
 RT: 14.51 min Scan# 2068
 Delta R.T. 0.02 min
 Lab File: VW006237.D
 Acq: 19 Oct 2018 20:30

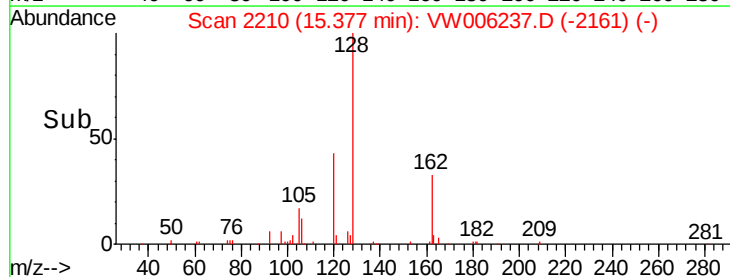
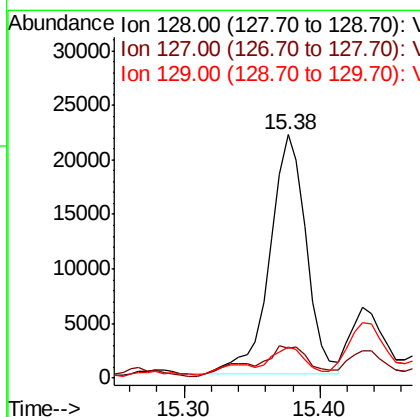
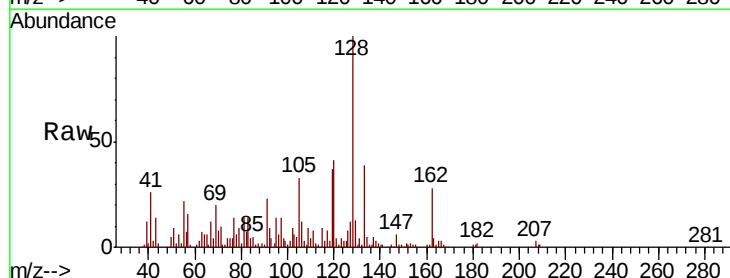
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-101918RE

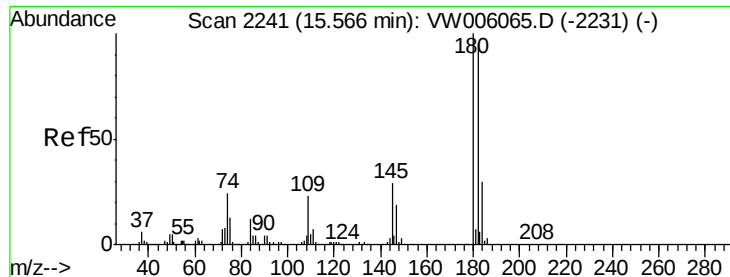
Tot Ion: 75 Resp: 498
 Ion Ratio Lower Upper
 75 100
 155 23.5 46.5 139.5#
 157 0.0 59.8 179.4#



#95
 Naphthalene
 Concen: 10.986 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. -0.00 min
 Lab File: VW006237.D
 Acq: 19 Oct 2018 20:30

Tgt Ion: 128 Resp: 41338
 Ion Ratio Lower Upper
 128 100
 127 11.6 10.3 15.5
 129 8.9 8.7 13.1

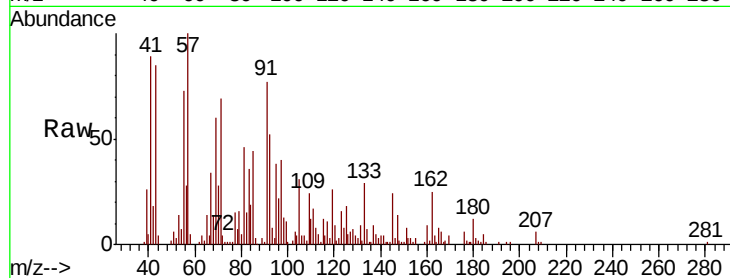




#96
 1,2,3-Trichlorobenzene
 Concen: 1.162 ug/l
 RT: 15.59 min Scan# 2245
 Delta R.T. 0.02 min
 Lab File: VW006237.D
 Acq: 19 Oct 2018 20:30

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-101918RE

Tot Ion:180 Resp: 2274
 Ion Ratio Lower Upper
 180 100
 182 18.0 47.8 143.3#
 145 0.0 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

