

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011619\
 Data File : VW008315.D
 Acq On : 16 Jan 2019 18:16
 Operator : SY/VA
 Sample : K1153-01
 Misc : 4.27G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR200044-RBR200027

Quant Time: Jan 17 05:04:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 04:40:48 2019
 Response via : Initial Calibration

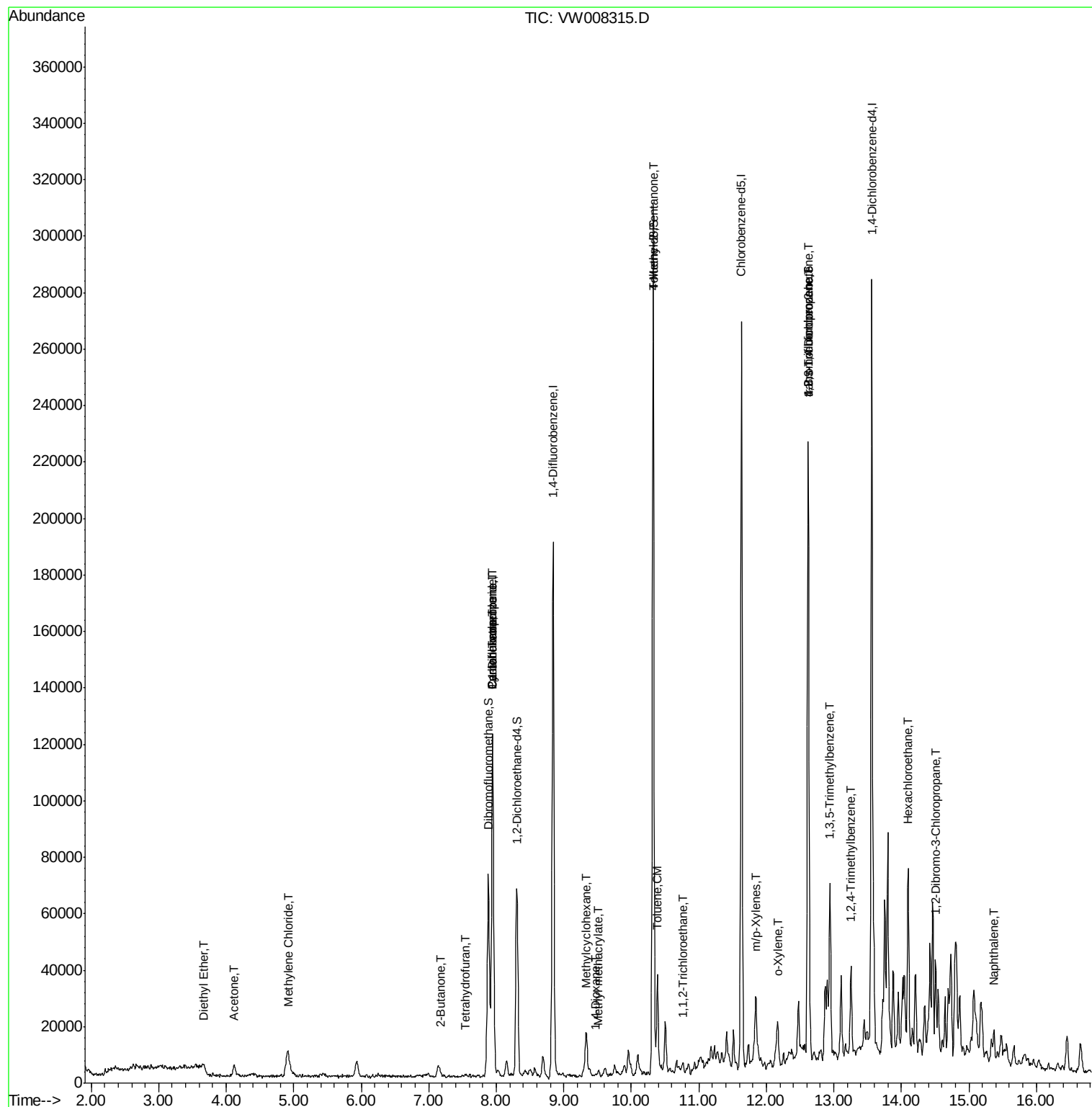
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	86472	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	156070	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	146054	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	69862	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	51317	52.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.60%	
35) Dibromofluoromethane	7.88	113	49593	54.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.96%	
50) Toluene-d8	10.32	98	197992	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
62) 4-Bromofluorobenzene	12.62	95	71306	52.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.14%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.67	74	1337	2.434	ug/l	81
11) Tert butyl alcohol	5.25	59	25	Below Cal	#	100
13) Acrolein	3.88	56	65	Below Cal	#	50
16) Acetone	4.12	43	6809	19.474	ug/l #	88
20) Methylene Chloride	4.92	84	8074	4.016	ug/l #	81
25) 2-Butanone	7.18	43	411	1.520	ug/l #	49
29) Tetrahydrofuran	7.54	42	188	1.041	ug/l #	57
31) Cyclohexane	7.94	56	3445	1.684	ug/l #	13
36) 1,1-Dichloropropene	7.95	75	7215	4.488	ug/l #	52
38) Carbon Tetrachloride	7.95	117	9106	6.188	ug/l #	15
39) Methylcyclohexane	9.34	83	5837	2.863	ug/l #	85
48) Methyl methacrylate	9.51	41	636	1.047	ug/l #	71
49) 1,4-Dioxane	9.47	88	24	2.811	ug/l #	78
51) 4-Methyl-2-Pentanone	10.32	43	1069	1.715	ug/l #	1
52) Toluene	10.39	92	14779	5.307	ug/l	99
55) 1,1,2-Trichloroethane	10.76	97	1403	1.882	ug/l #	36
68) m/p-Xylenes	11.85	106	2897	1.341	ug/l	97
69) o-Xylene	12.17	106	4330	2.164	ug/l	88
76) 1,2,3-Trichloropropane	12.62	75	35377	55.548	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.95	105	26722	5.929	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	35377	129.355	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.26	105	16665	3.585	ug/l	97
90) Hexachloroethane	14.10	117	3718	4.364	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.51	75	176	1.246	ug/l #	24
95) Naphthalene	15.37	128	6415	2.505	ug/l #	94

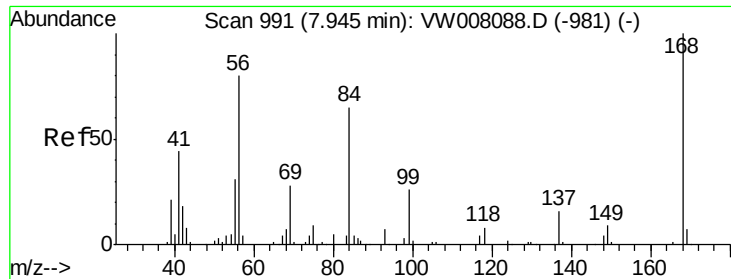
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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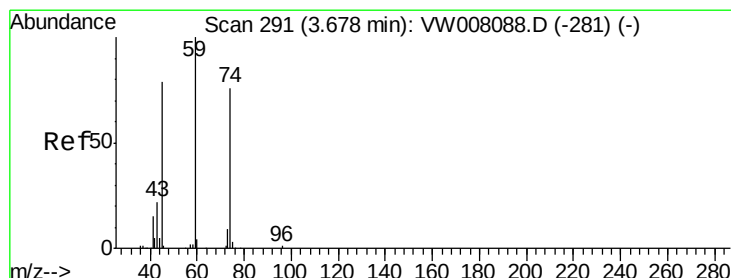
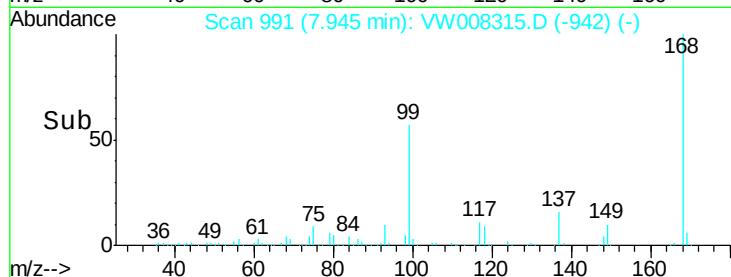
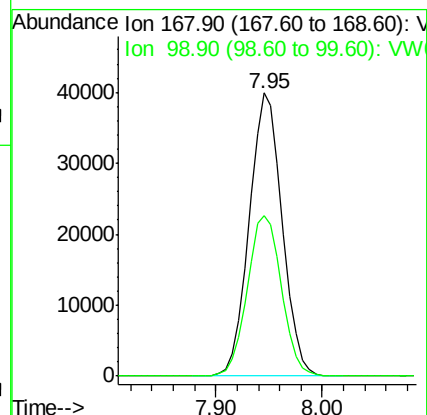
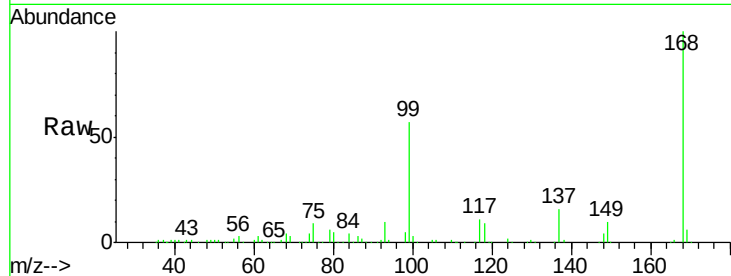




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.00 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

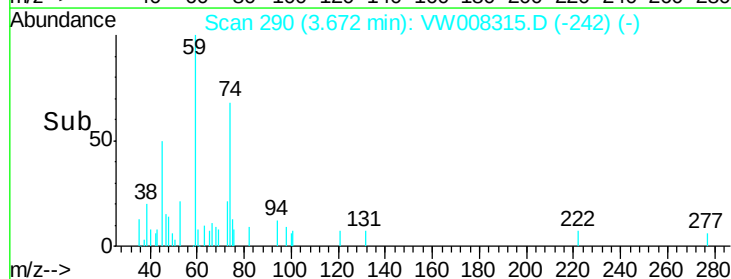
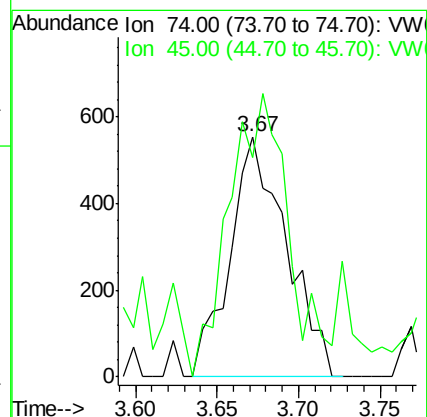
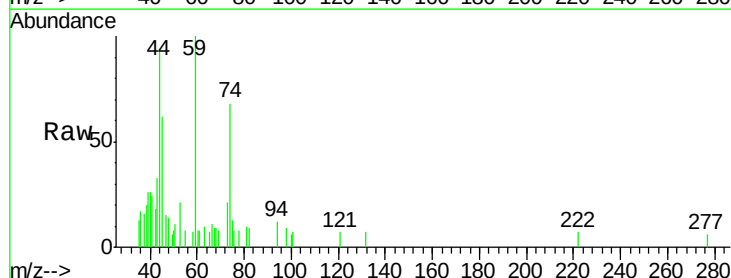
Instrument :
MSVOA_W
ClientSampleId :
RBR200044-RBR200027

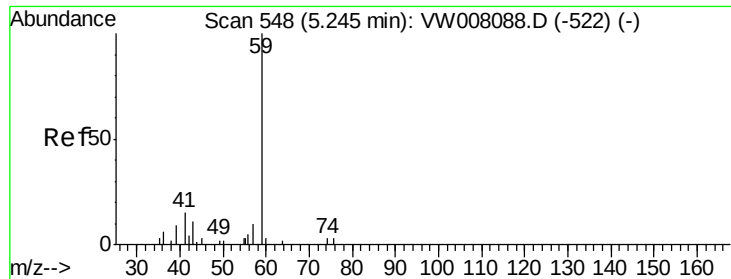
Tot Ion:168 Resp: 86472
Ion Ratio Lower Upper
168 100
99 56.9 52.6 78.8



#8
Diethyl Ether
Concen: 2.434 ug/l
RT: 3.67 min Scan# 290
Delta R.T. -0.01 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

Tgt Ion: 74 Resp: 1337
Ion Ratio Lower Upper
74 100
45 124.1 52.4 157.3

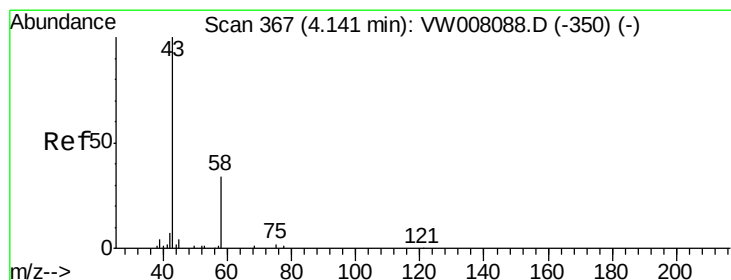
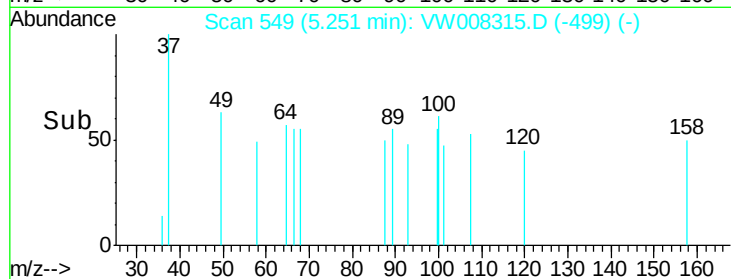
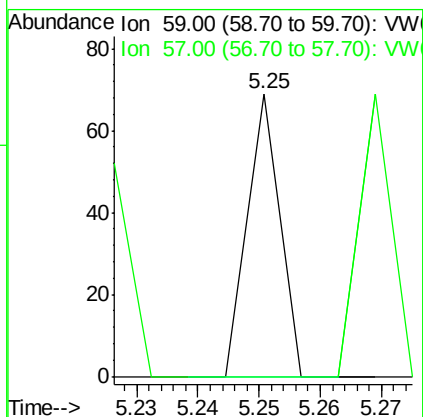
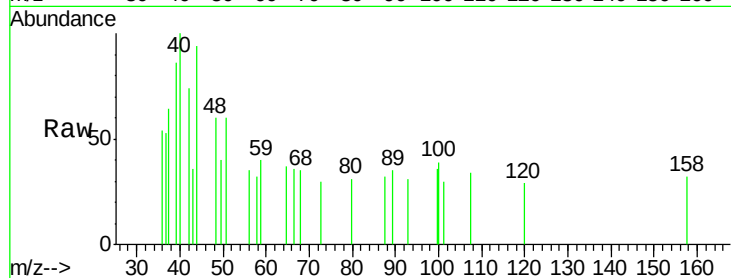




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.25 min Scan# 549
Delta R.T. 0.01 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

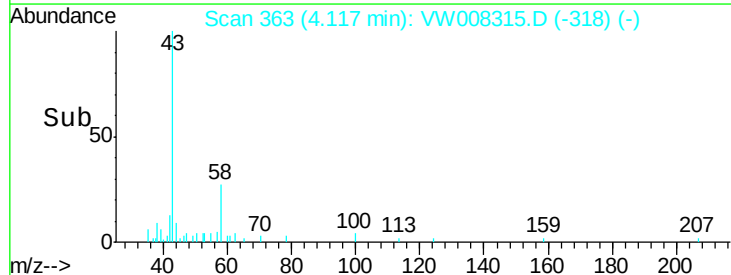
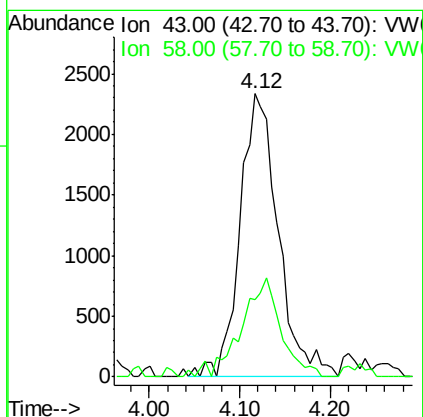
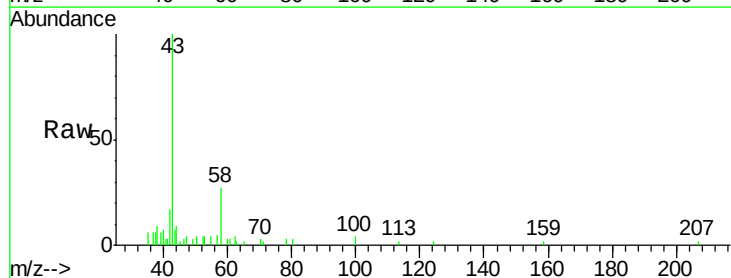
Instrument :
MSVOA_W
ClientSampleId :
RBR200044-RBR200027

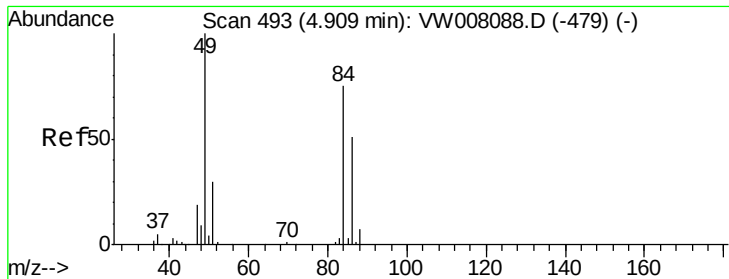
Tot Ion: 59 Resp: 25
Ion Ratio Lower Upper
59 100
57 100.0 0.0 0.0#



#16
Acetone
Concen: 19.474 ug/l
RT: 4.12 min Scan# 363
Delta R.T. -0.02 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

Tgt Ion: 43 Resp: 6809
Ion Ratio Lower Upper
43 100
58 27.4 27.5 41.3#

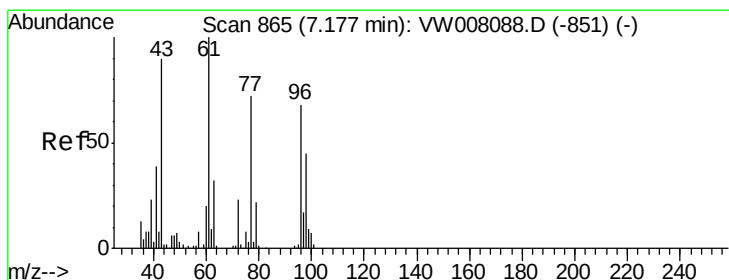
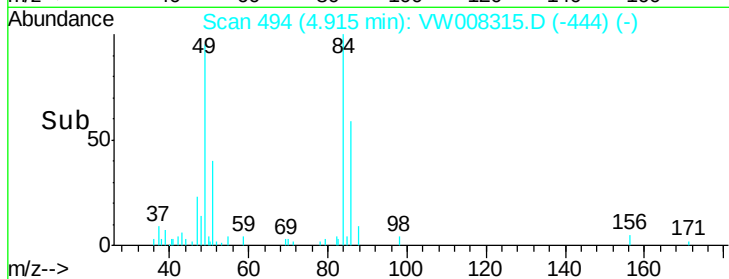
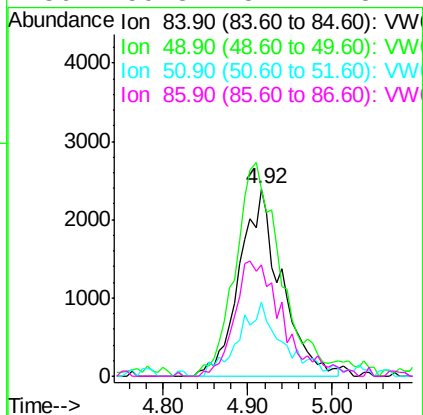
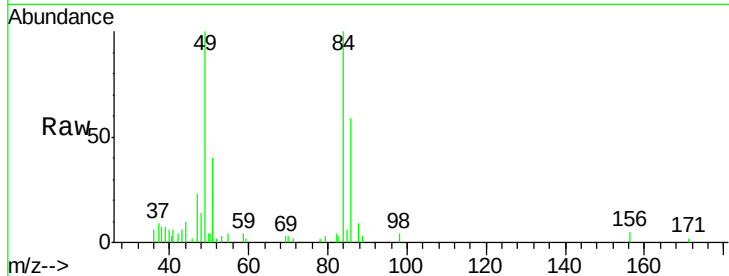




#20
Methylene Chloride
Concen: 4.016 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

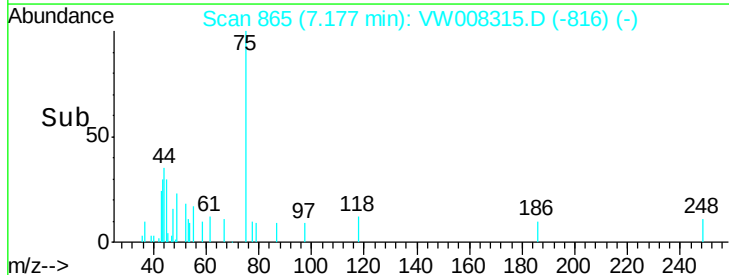
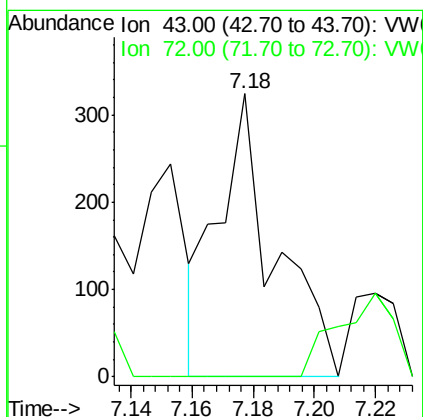
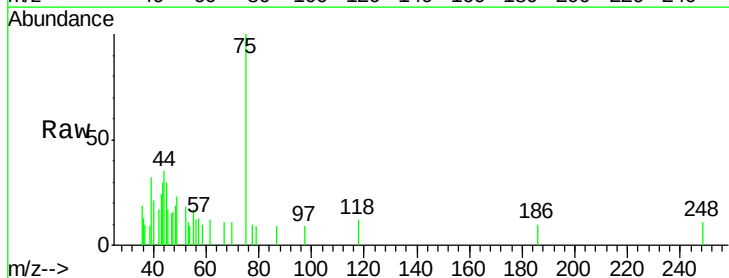
Instrument :
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ClientSampleId :
RBR200044-RBR200027

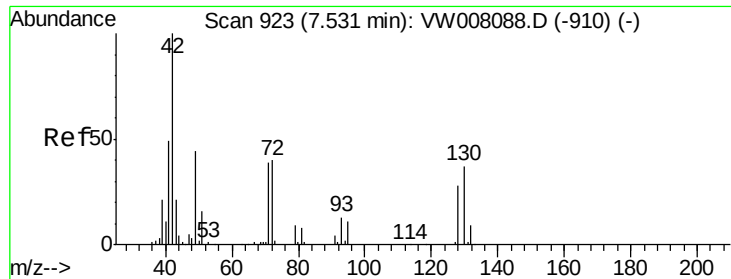
Tot Ion: 84 Resp: 8074
Ion Ratio Lower Upper
84 100
49 100.3 107.1 160.7#
51 39.7 32.4 48.6
86 59.3 54.2 81.4



#25
2-Butanone
Concen: 1.520 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.00 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

Tgt Ion: 43 Resp: 411
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#

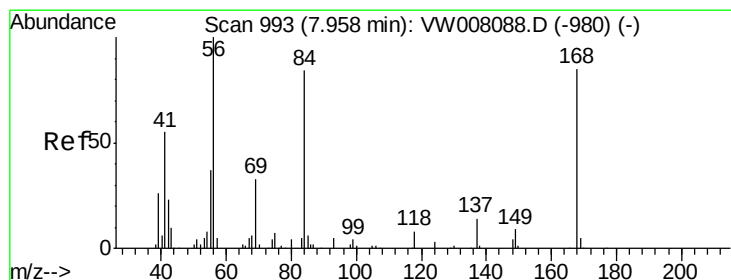
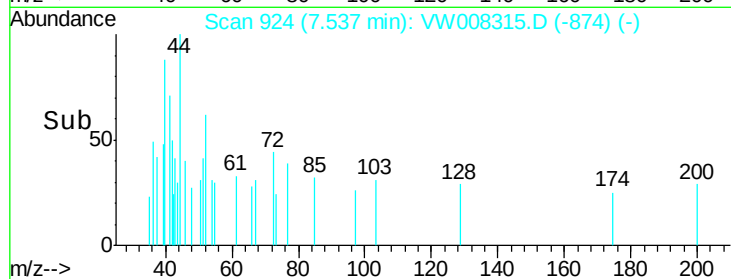
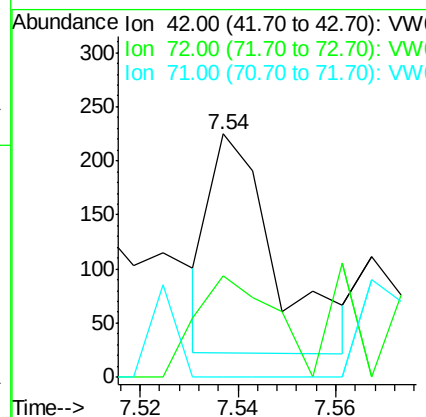
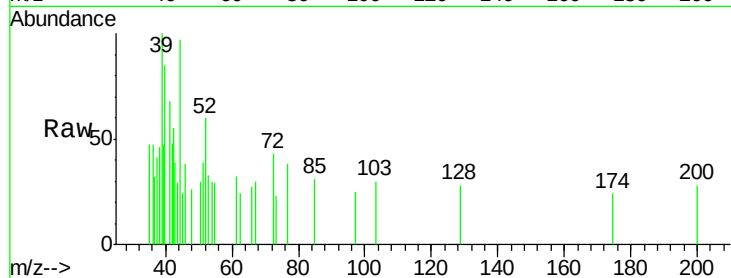




#29
Tetrahydrofuran
Concen: 1.041 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

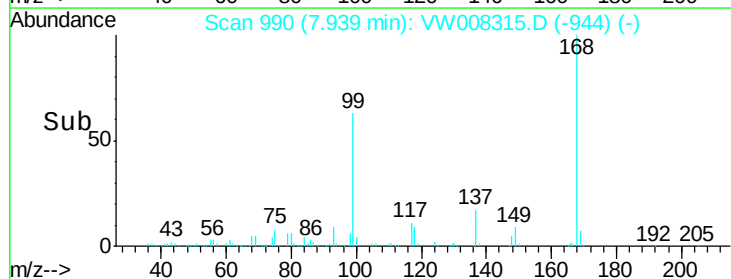
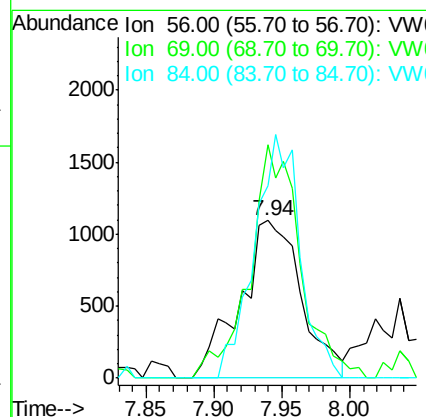
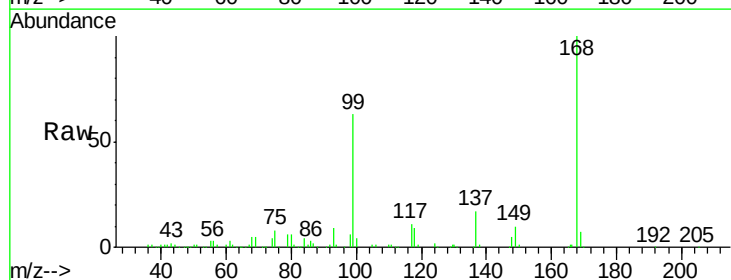
Instrument :
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ClientSampleId :
RBR200044-RBR200027

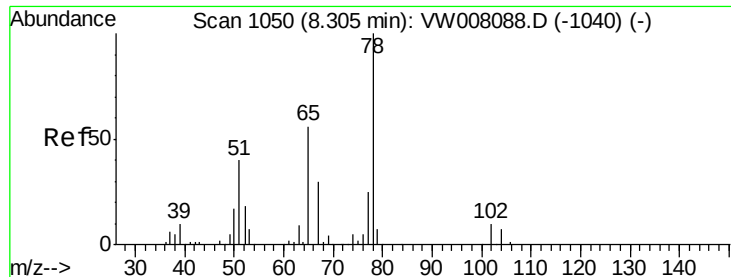
Tot Ion: 42 Resp: 188
Ion Ratio Lower Upper
42 100
72 54.8 32.4 48.6#
71 0.0 31.3 46.9#



#31
Cyclohexane
Concen: 1.684 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

Tgt Ion: 56 Resp: 3445
Ion Ratio Lower Upper
56 100
69 148.0 26.2 39.4#
84 122.3 67.4 101.2#





#33

1,2-Dichloroethane-d4

Concen: 52.802 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

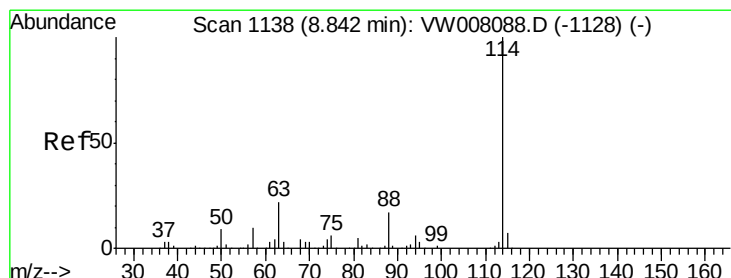
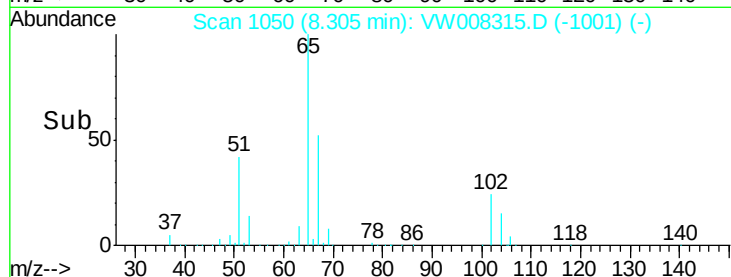
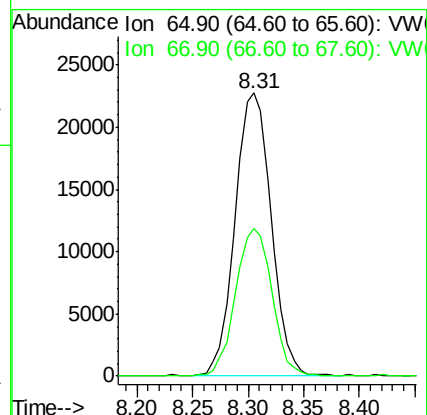
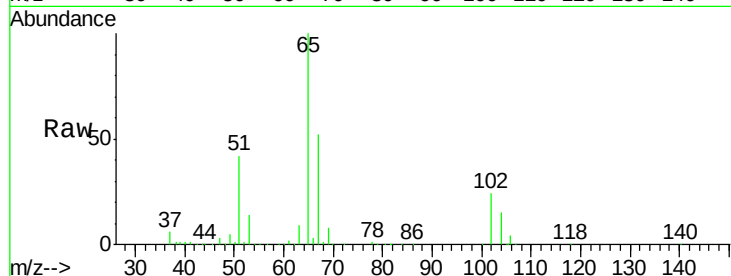
RBR200044-RBR200027

Tot Ion: 65 Resp: 51317

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

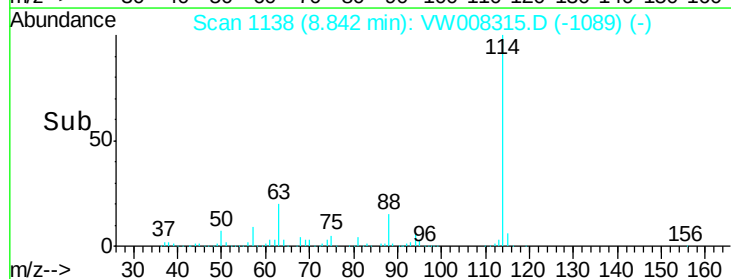
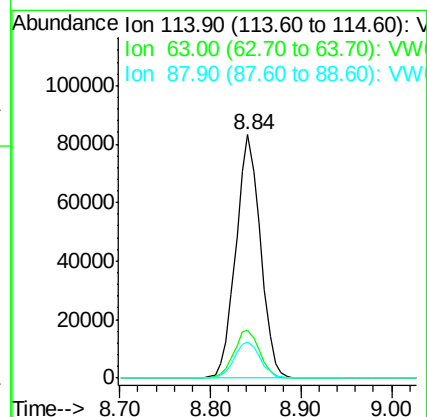
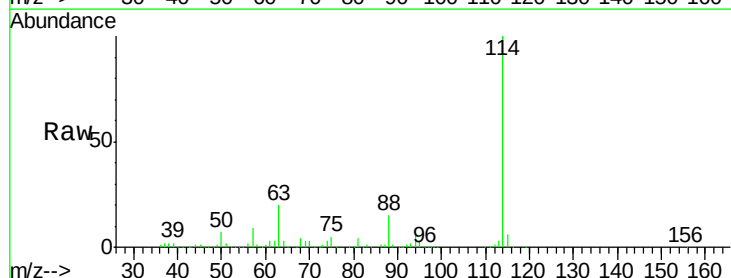
Tgt Ion: 114 Resp: 156070

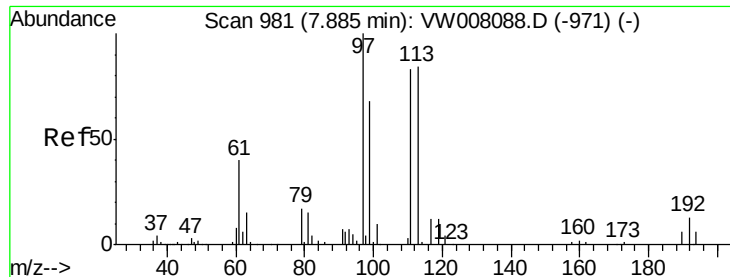
Ion Ratio Lower Upper

114 100

63 19.6 0.0 43.4

88 15.0 0.0 33.4

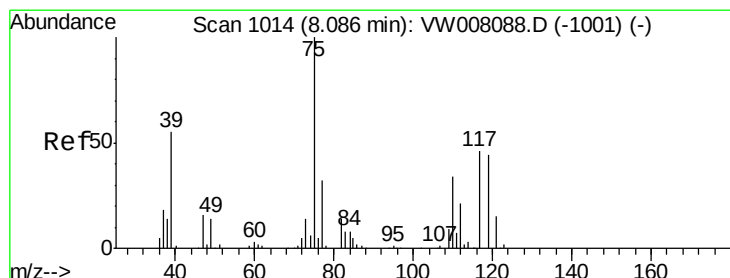
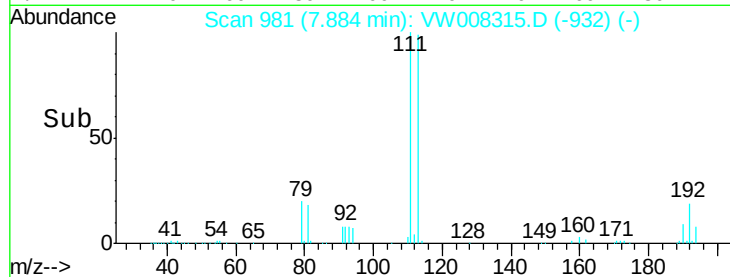
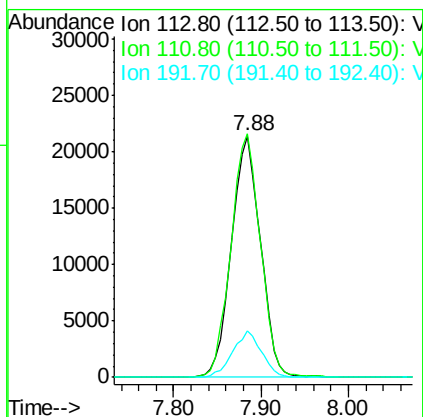
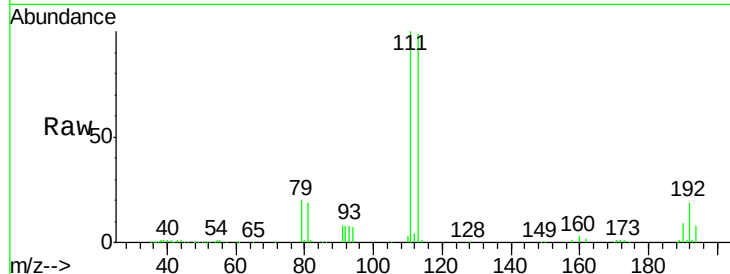




#35
 Dibromofluoromethane
 Concen: 54.482 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW008315.D
 Acq: 16 Jan 2019 18:16

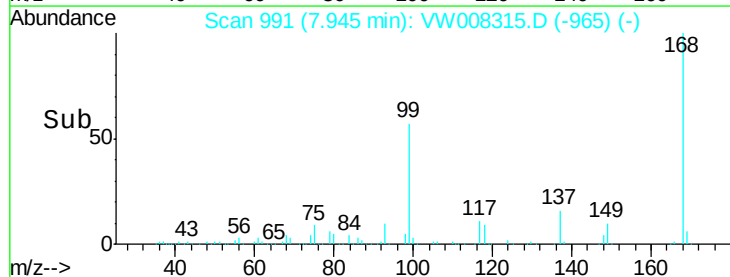
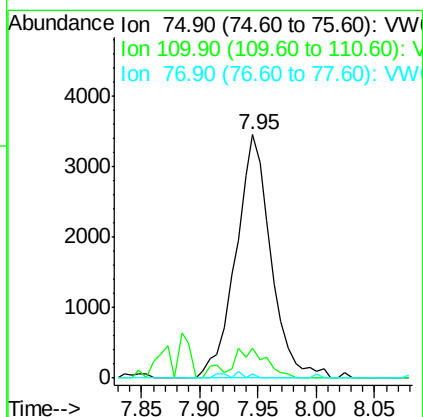
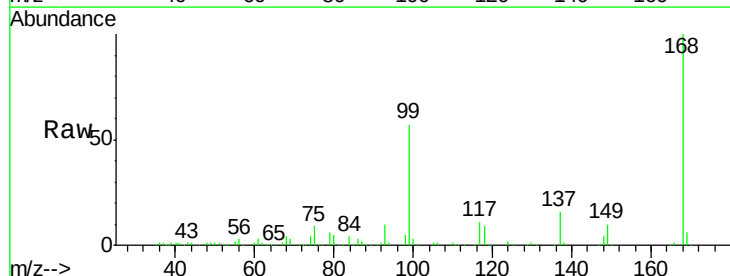
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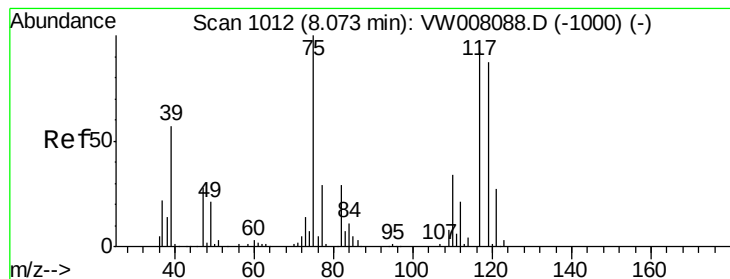
Tot Ion:113 Resp: 49593
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.8 122.8
 192 19.0 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.488 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.14 min
 Lab File: VW008315.D
 Acq: 16 Jan 2019 18:16

Tgt Ion: 75 Resp: 7215
 Ion Ratio Lower Upper
 75 100
 110 10.6 17.1 51.3#
 77 0.8 25.5 38.3#





#38

Carbon Tetrachloride

Concen: 6.188 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

RBR200044-RBR200027

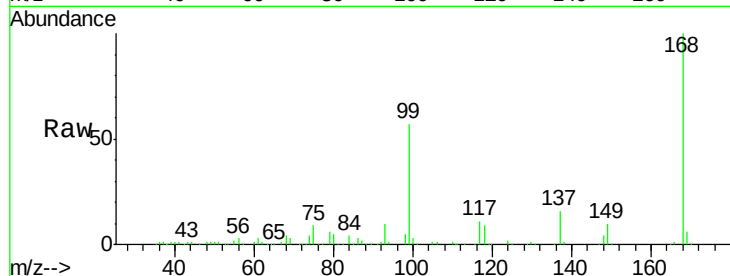
Tot Ion:117 Resp: 9106

Ion Ratio Lower Upper

117 100

119 2.7 75.8 113.8#

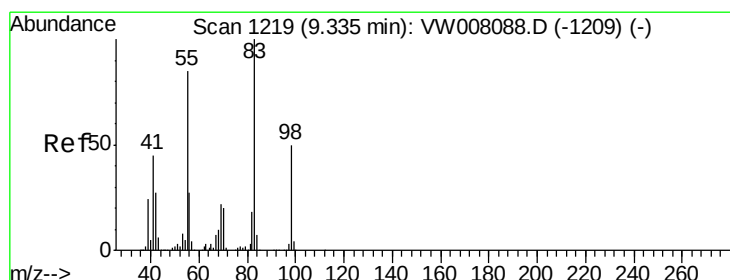
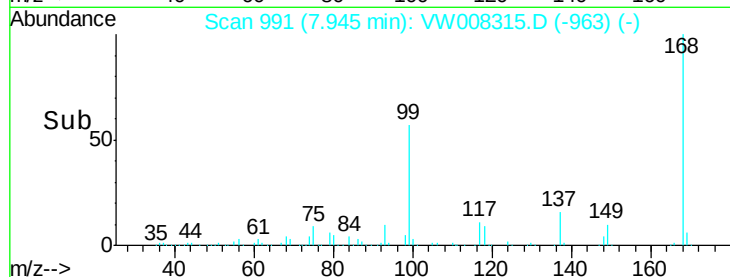
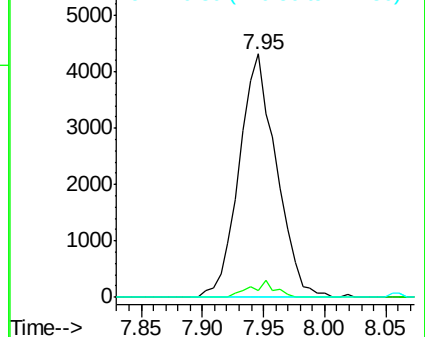
121 0.0 23.7 35.5#



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



#39

Methylcyclohexane

Concen: 2.863 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

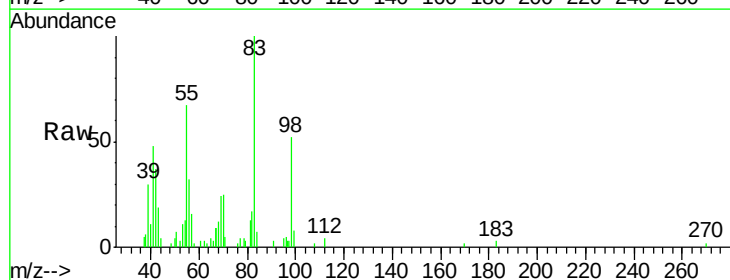
Tgt Ion: 83 Resp: 5837

Ion Ratio Lower Upper

83 100

55 64.6 67.8 101.6#

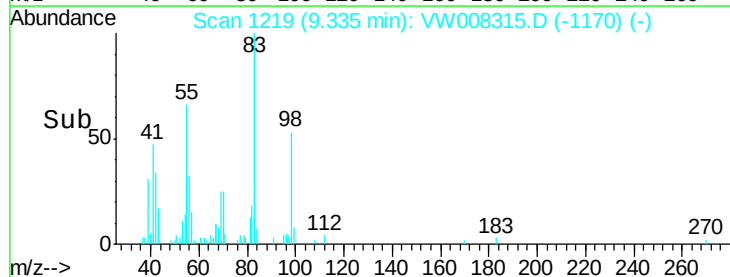
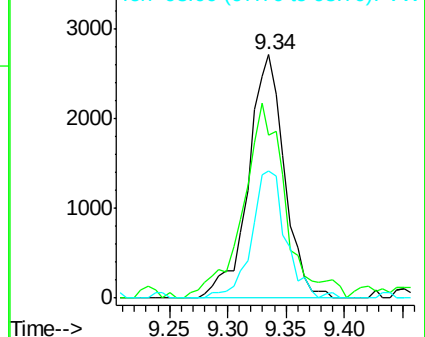
98 52.0 40.2 60.4

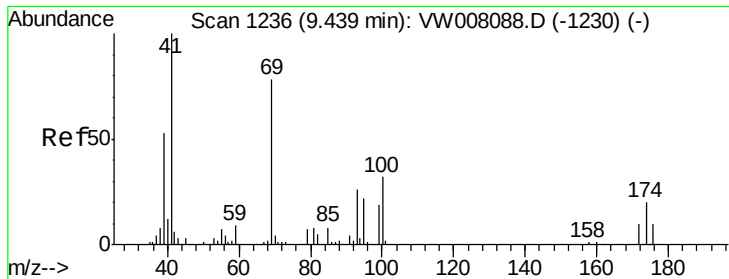


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

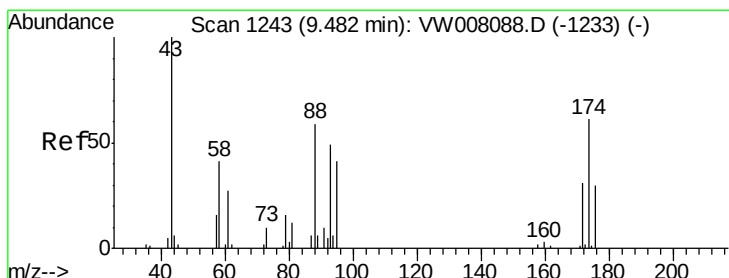
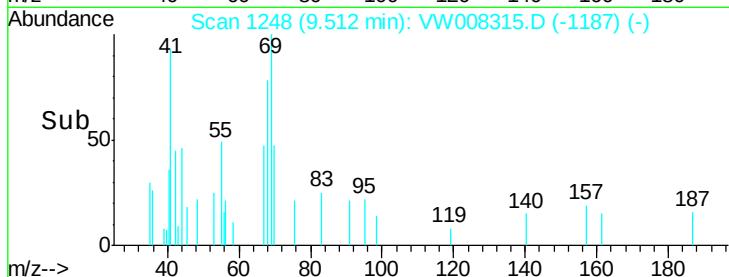
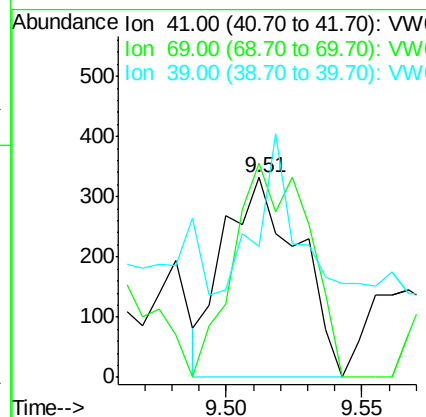
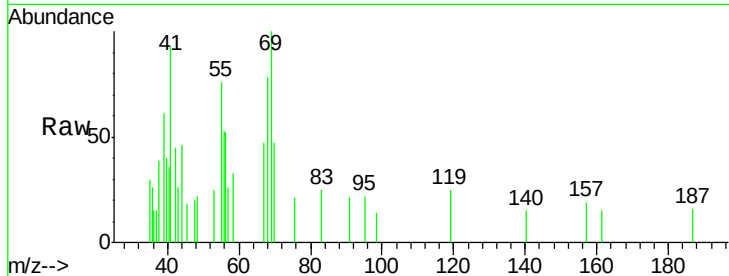




#48
Methvl methacrylate
Concen: 1.047 ug/l
RT: 9.51 min Scan# 1248
Delta R.T. 0.07 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

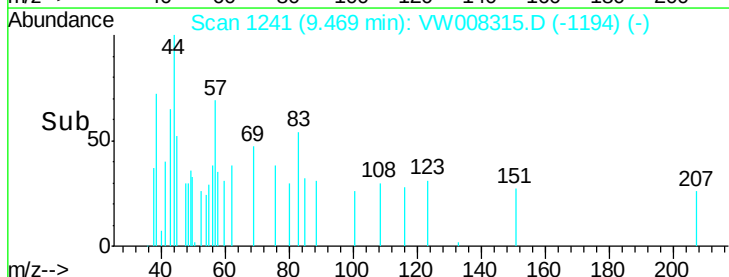
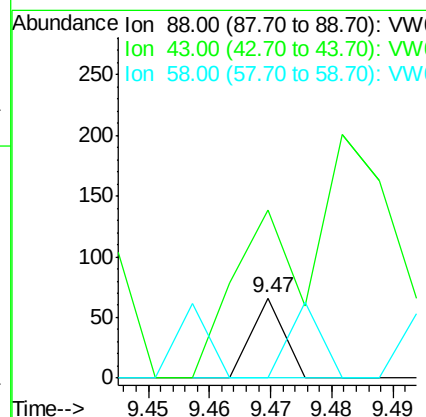
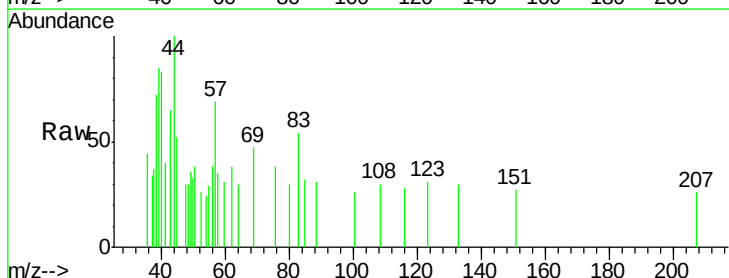
Instrument :
MSVOA_W
ClientSampleId :
RBR200044-RBR200027

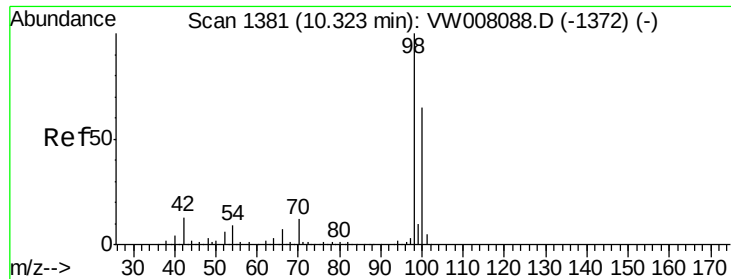
Tot Ion: 41 Resp: 636
Ion Ratio Lower Upper
41 100
69 106.0 61.9 92.9#
39 37.1 43.0 64.4#



#49
1,4-Dioxane
Concen: 2.811 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 1350.0 0.0 0.0#
58 95.8 61.7 92.5#

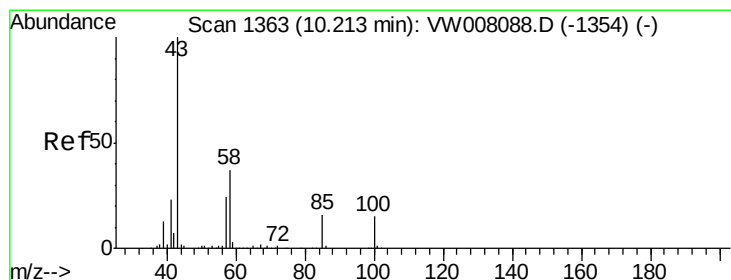
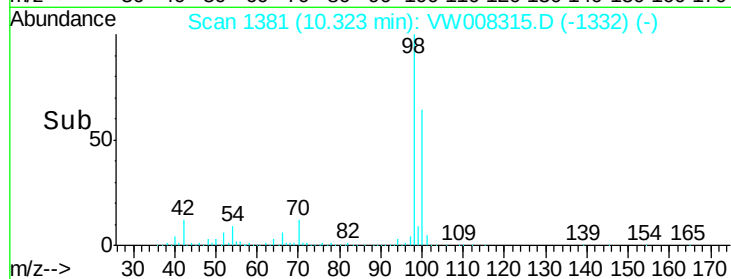
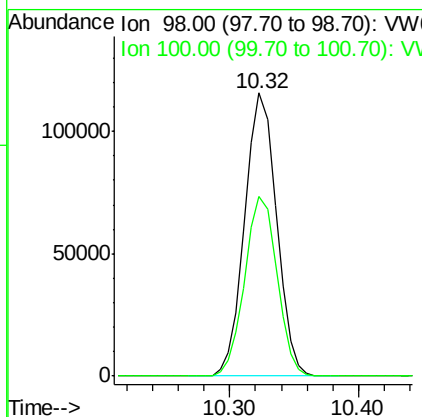
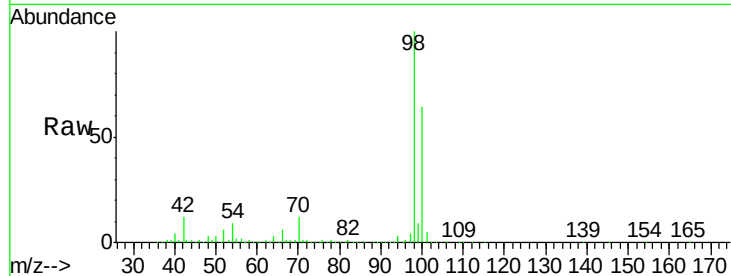




#50
Toluene-d8
Concen: 51.833 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

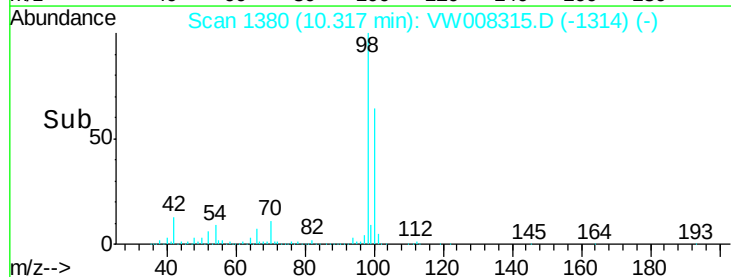
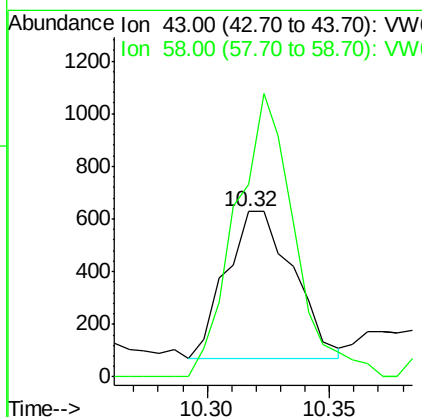
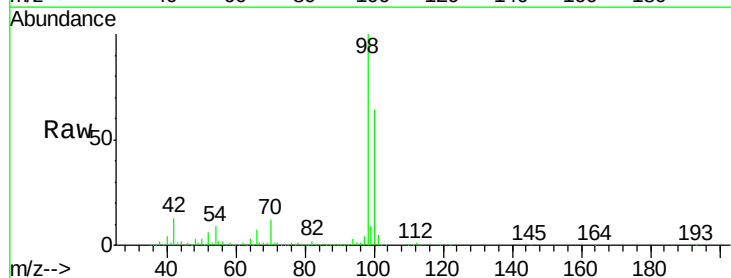
Instrument :
MSVOA_W
ClientSampleId :
RBR200044-RBR200027

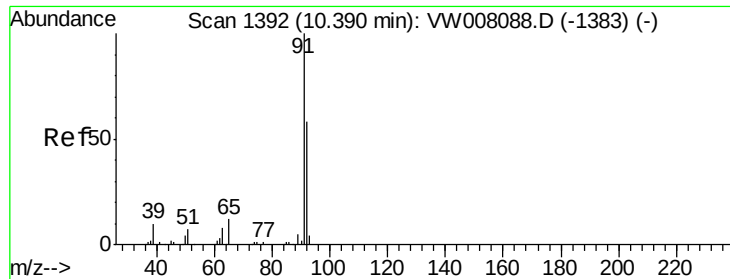
Tot Ion: 98 Resp: 197992
Ion Ratio Lower Upper
98 100
100 64.6 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.715 ug/l
RT: 10.32 min Scan# 1380
Delta R.T. 0.10 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

Tgt Ion: 43 Resp: 1069
Ion Ratio Lower Upper
43 100
58 168.8 30.6 46.0#





#52

Toluene

Concen: 5.307 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

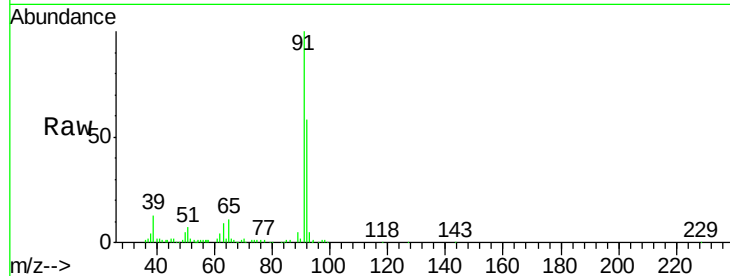
RBR200044-RBR200027

Tot Ion: 92 Resp: 14779

Ion Ratio Lower Upper

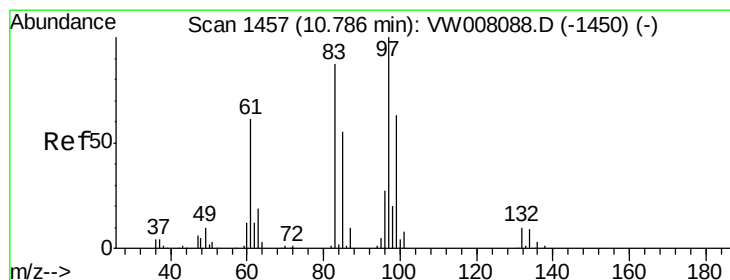
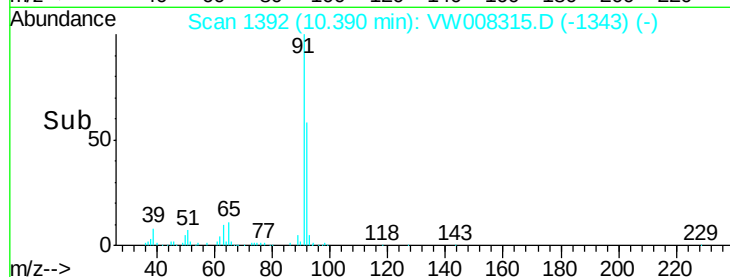
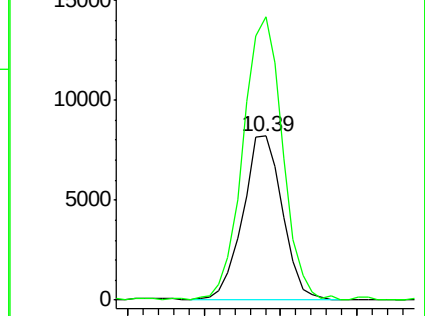
92 100

91 172.5 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#55

1,1,2-Trichloroethane

Concen: 1.882 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Tgt Ion: 97 Resp: 1403

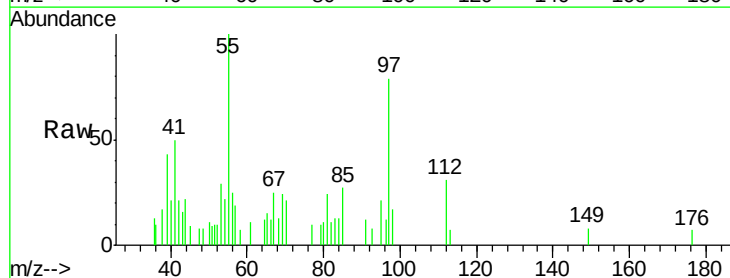
Ion Ratio Lower Upper

97 100

83 16.9 69.3 103.9#

85 34.7 43.8 65.6#

99 0.0 50.0 75.0#

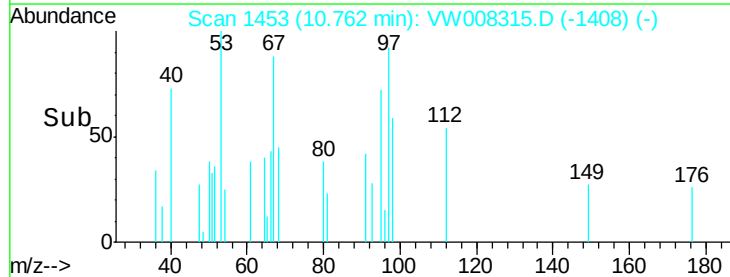
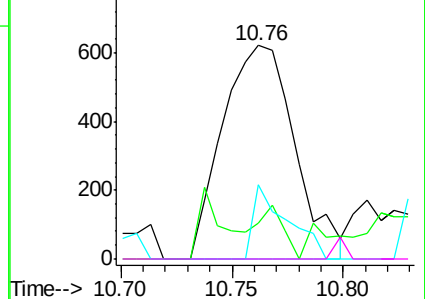


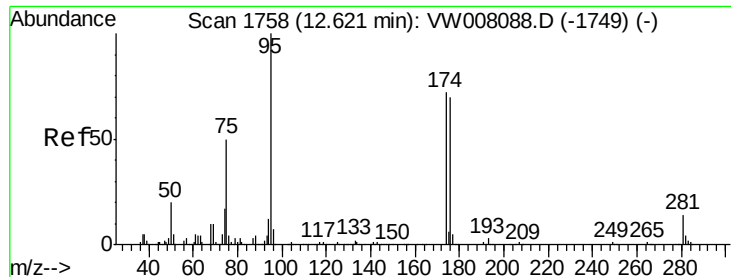
Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW





#62

4-Bromofluorobenzene

Concen: 52.071 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

RBR200044-RBR200027

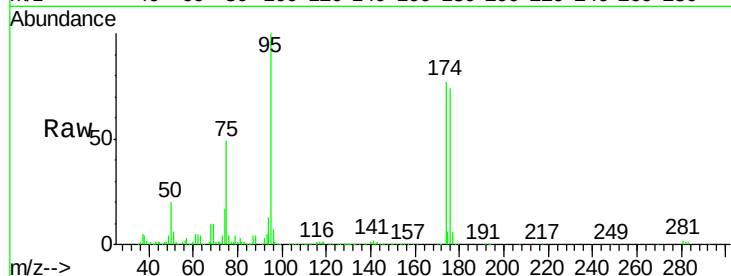
Tot Ion: 95 Resp: 71306

Ion Ratio Lower Upper

95 100

174 76.5 0.0 143.0

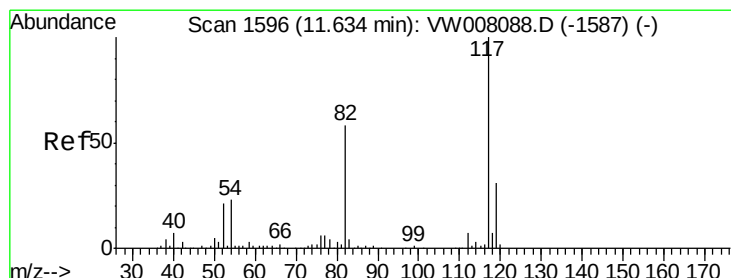
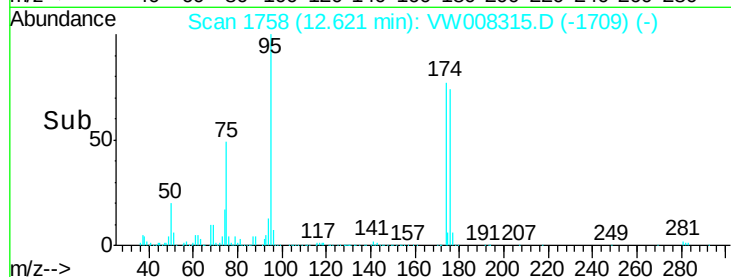
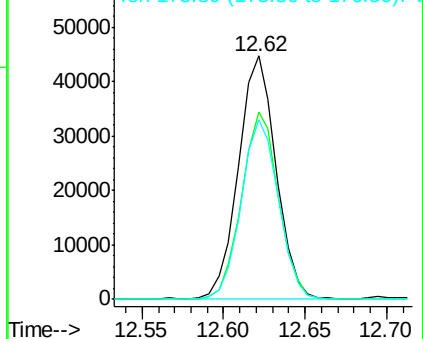
176 73.8 0.0 140.2



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: VW008315.D

Acq: 16 Jan 2019 18:16

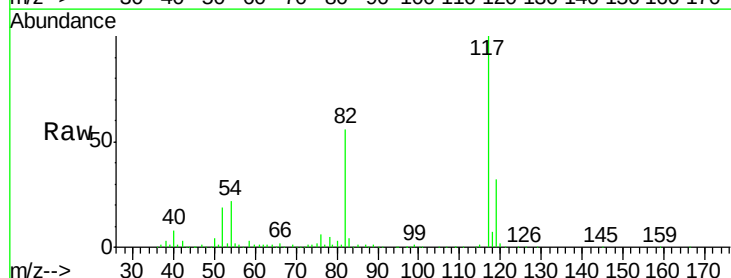
Tgt Ion: 117 Resp: 146054

Ion Ratio Lower Upper

117 100

82 55.7 46.4 69.6

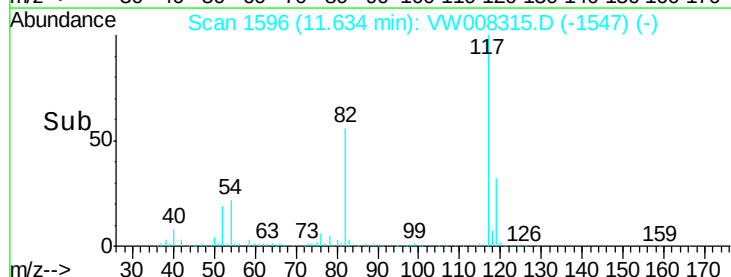
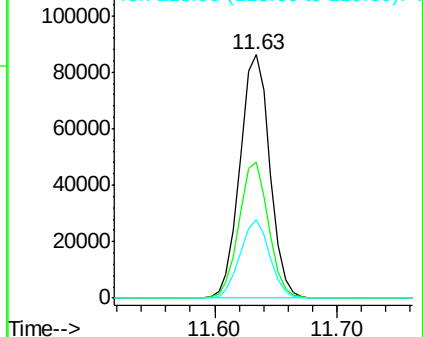
119 32.3 24.7 37.1

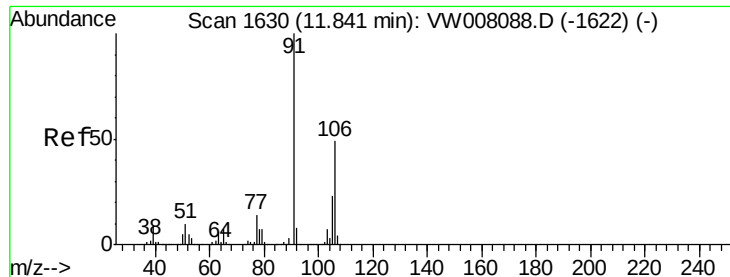


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

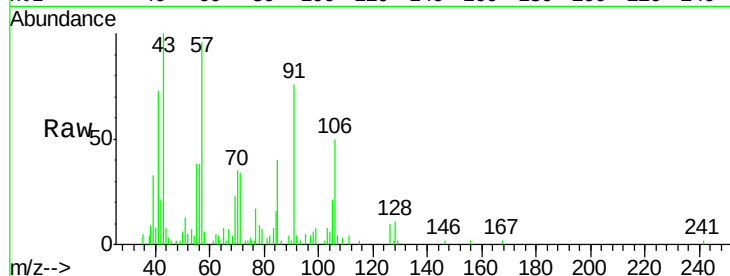




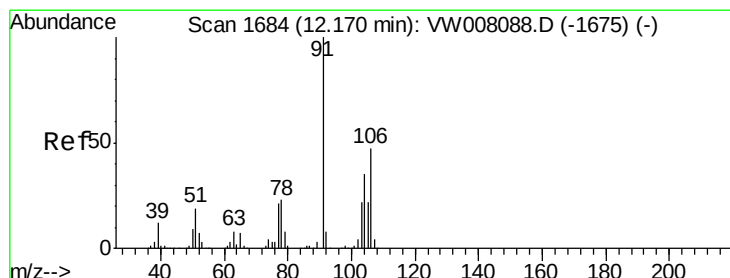
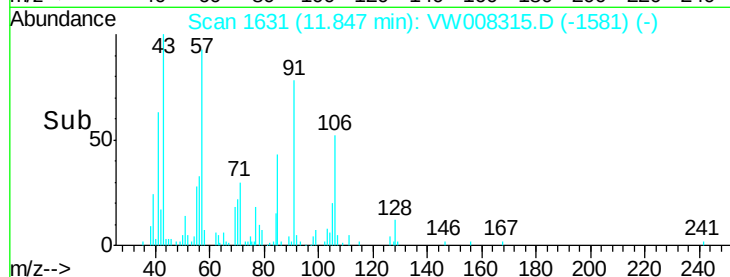
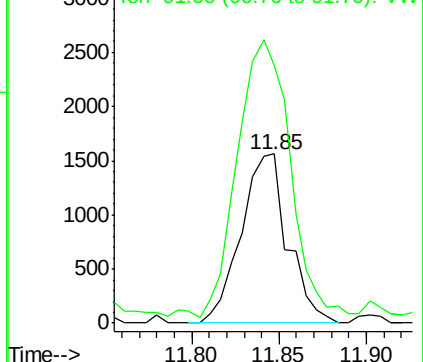
#68
m/p-Xylenes
Concen: 1.341 ug/l
RT: 11.85 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

Instrument :
MSVOA_W
ClientSampleId :
RBR200044-RBR200027

Tot Ion:106 Resp: 2897
Ion Ratio Lower Upper
106 100
91 199.1 162.4 243.6

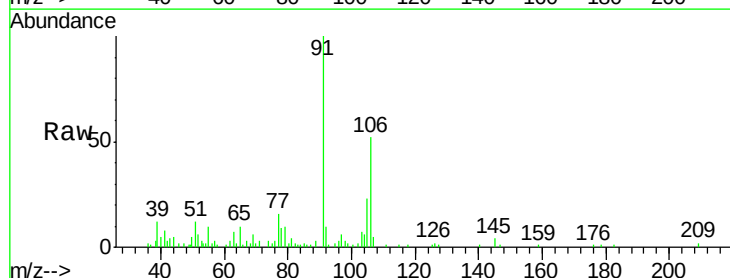


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

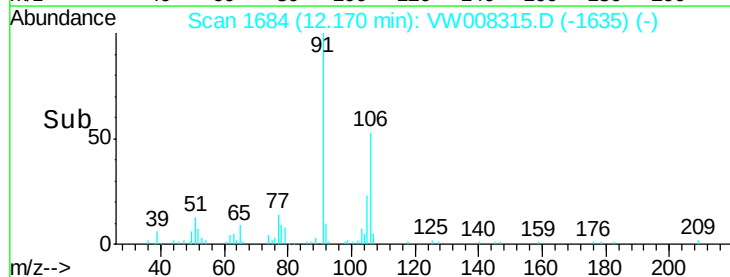
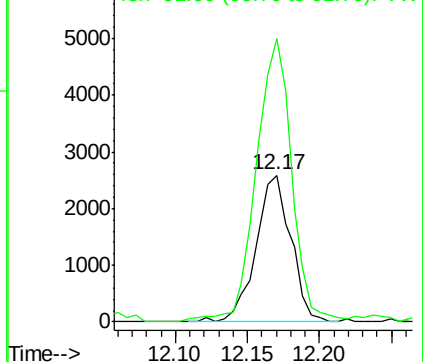


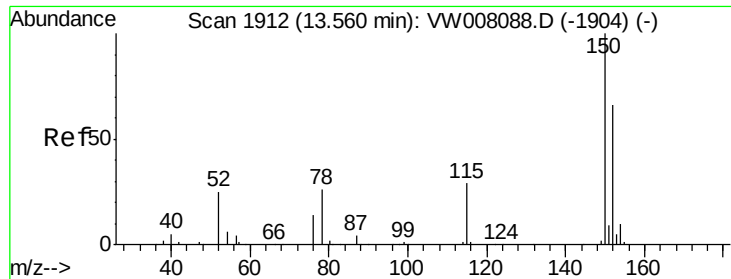
#69
o-Xylene
Concen: 2.164 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW008315.D
Acq: 16 Jan 2019 18:16

Tgt Ion:106 Resp: 4330
Ion Ratio Lower Upper
106 100
91 196.7 107.8 323.6



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

RBR200044-RBR200027

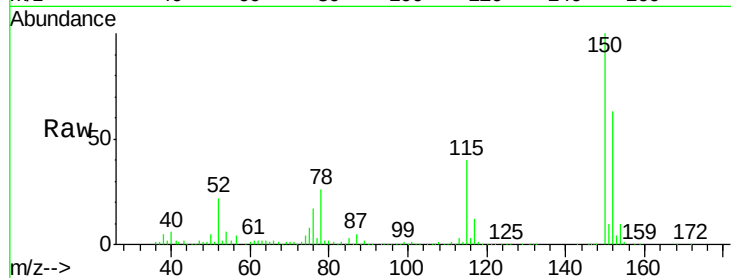
Tot Ion:152 Resp: 69862

Ion Ratio Lower Upper

152 100

115 62.5 30.8 92.4

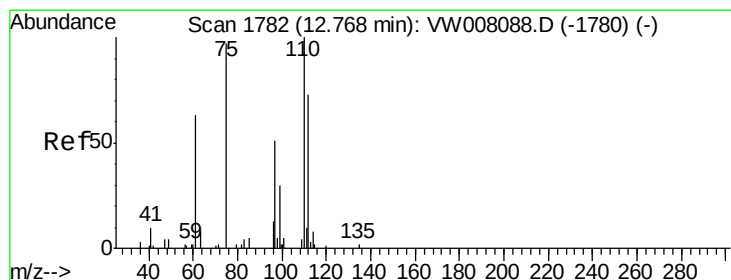
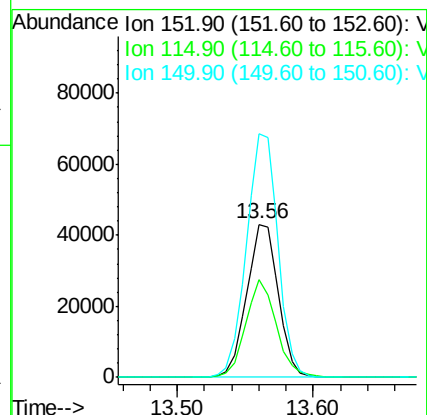
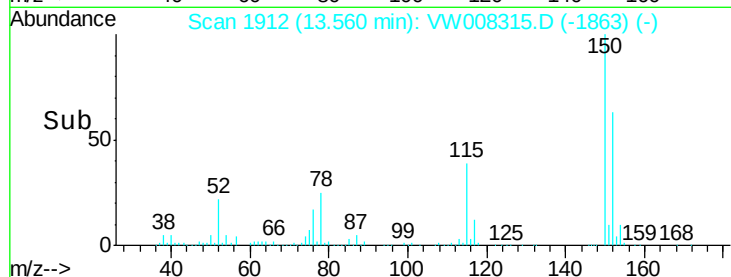
150 158.9 0.0 350.2



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: 55.548 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008315.D

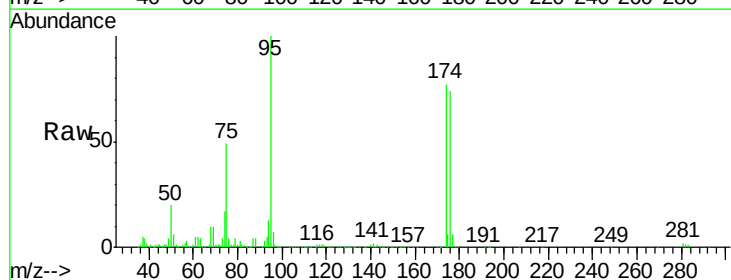
Acq: 16 Jan 2019 18:16

Tgt Ion: 75 Resp: 35377

Ion Ratio Lower Upper

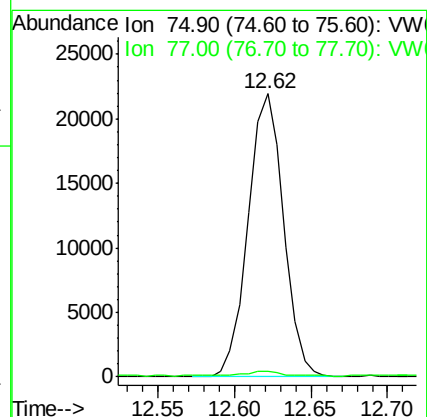
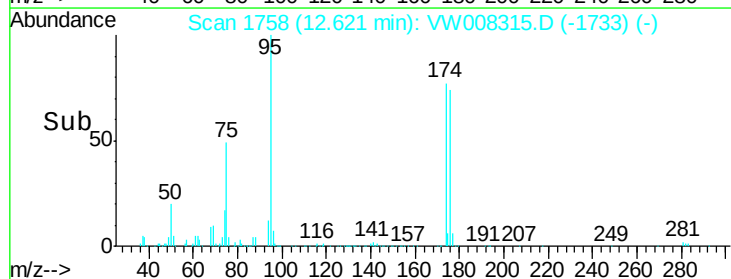
75 100

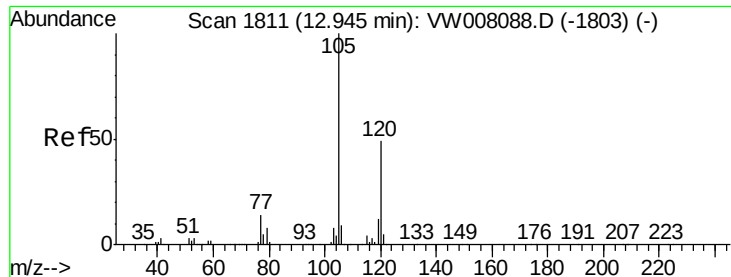
77 2.8 179.4 538.2#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#80

1,3,5-Trimethylbenzene

Concen: 5.929 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.01 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

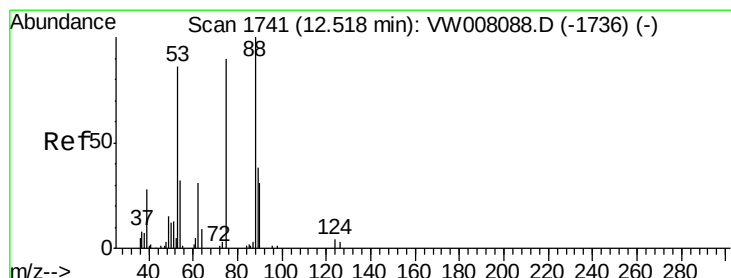
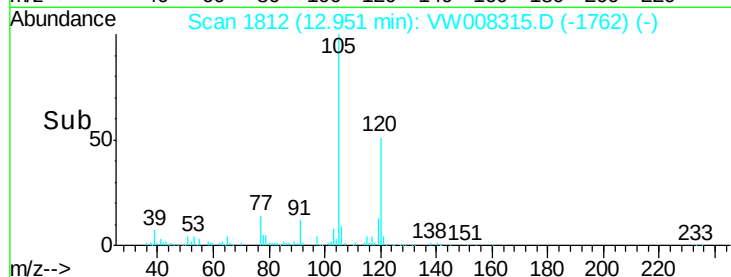
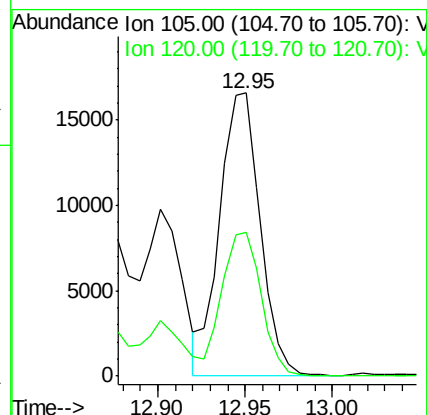
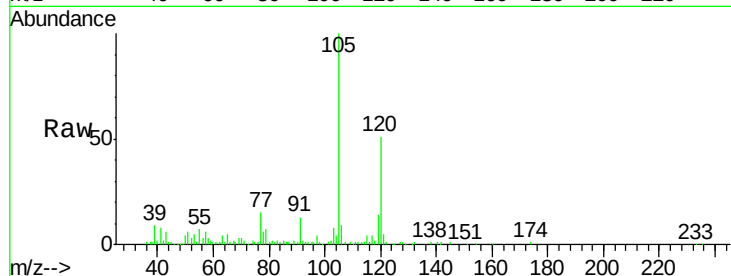
RBR200044-RBR200027

Tot Ion:105 Resp: 26722

Ion Ratio Lower Upper

105 100

120 49.1 24.7 74.1



#81

trans-1,4-Dichloro-2-butene

Concen: 129.355 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

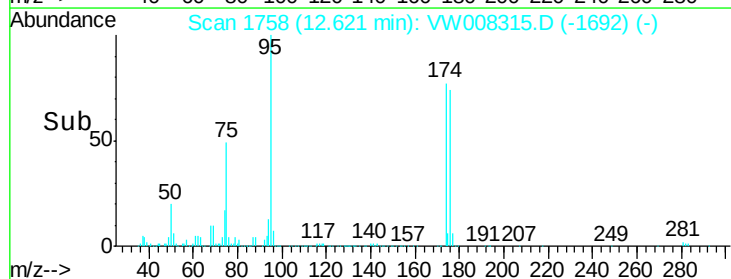
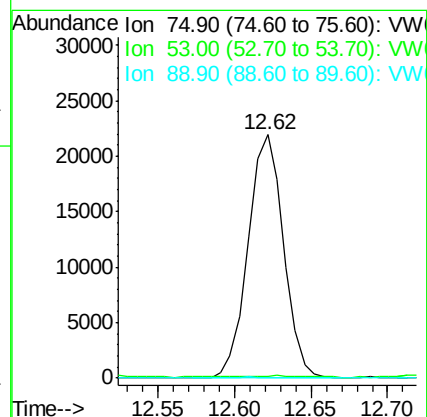
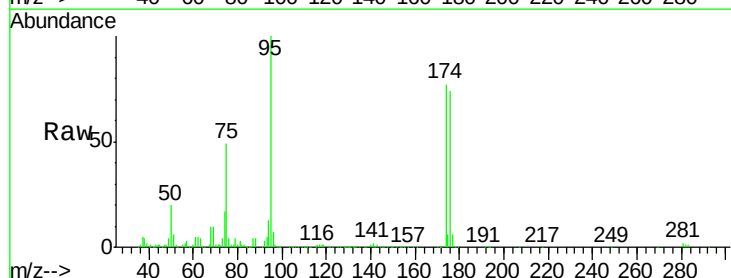
Tgt Ion: 75 Resp: 35377

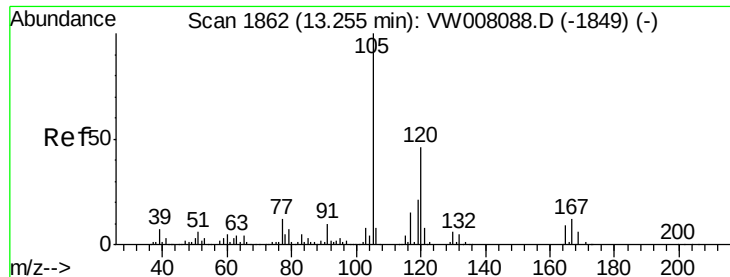
Ion Ratio Lower Upper

75 100

53 0.3 78.8 118.2#

89 0.2 35.4 53.2#

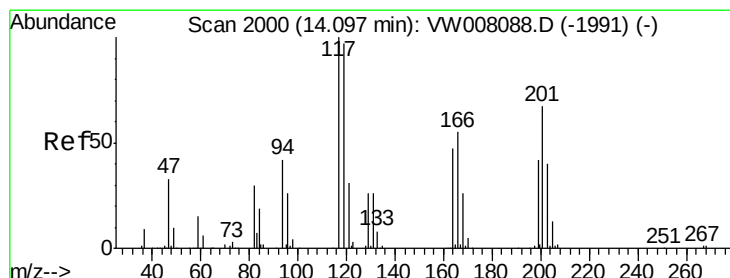
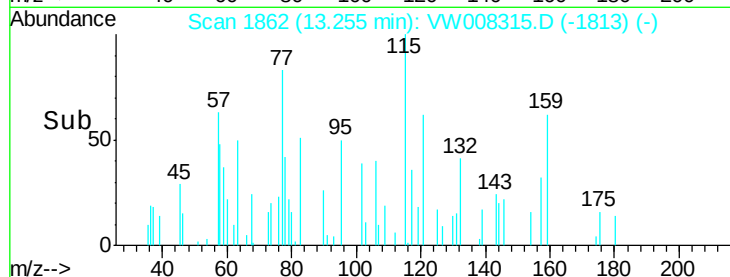
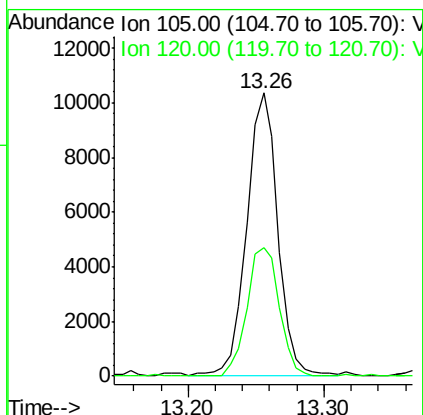
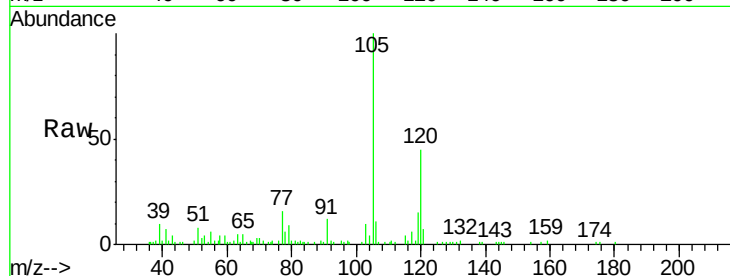




#84
 1,2,4-Trimethylbenzene
 Concen: 3.585 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW008315.D
 Acq: 16 Jan 2019 18:16

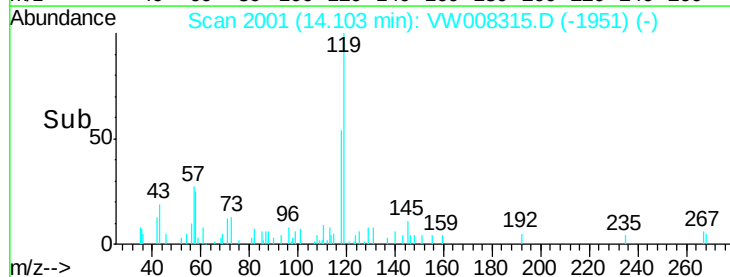
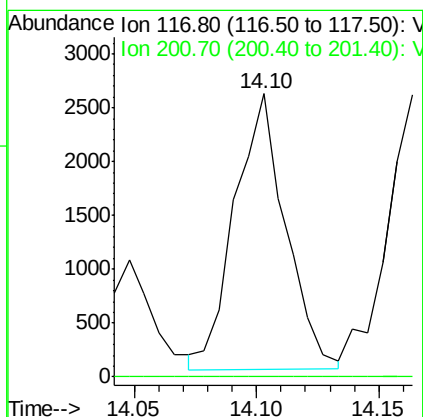
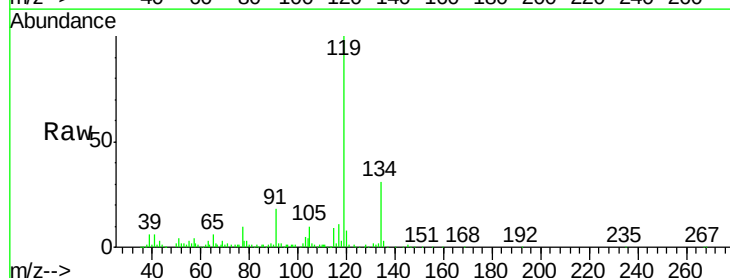
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR200044-RBR200027

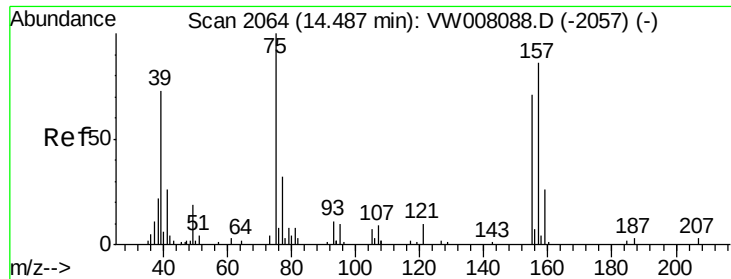
Tot Ion:105 Resp: 16665
 Ion Ratio Lower Upper
 105 100
 120 47.1 22.7 68.1



#90
 Hexachloroethane
 Concen: 4.364 ug/l
 RT: 14.10 min Scan# 2001
 Delta R.T. 0.01 min
 Lab File: VW008315.D
 Acq: 16 Jan 2019 18:16

Tgt Ion:117 Resp: 3718
 Ion Ratio Lower Upper
 117 100
 201 0.0 33.0 98.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.246 ug/l

RT: 14.51 min Scan# 2068

Delta R.T. 0.02 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

RBR200044-RBR200027

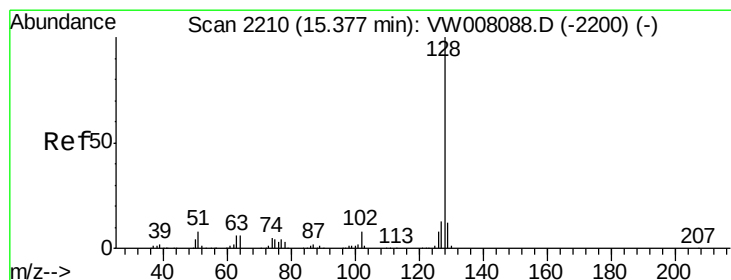
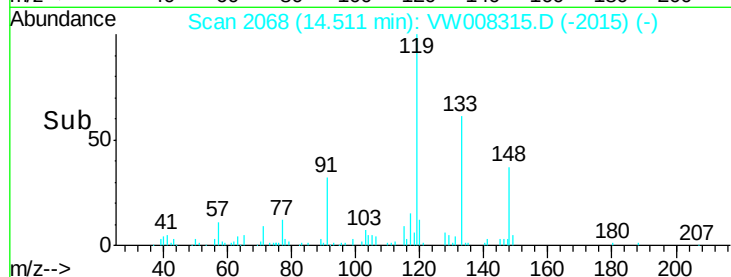
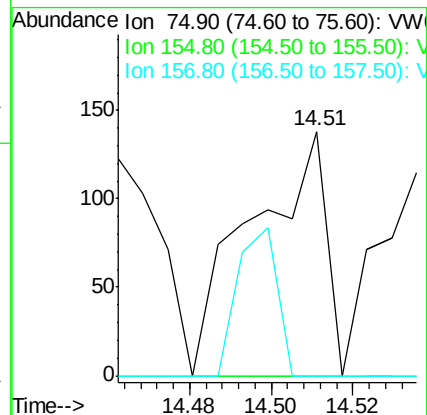
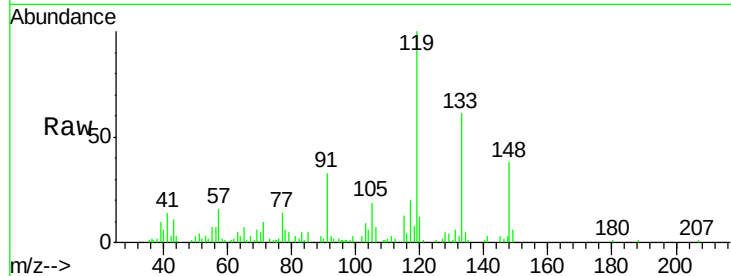
Tot Ion: 75 Resp: 176

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.7#

157 31.8 47.5 142.6#



#95

Naphthalene

Concen: 2.505 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW008315.D

Acq: 16 Jan 2019 18:16

Tgt Ion: 128 Resp: 6415

Ion Ratio Lower Upper

128 100

127 13.1 11.0 16.4

129 6.9 9.0 13.6#

