

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102518\
 Data File : VW006346.D
 Acq On : 25 Oct 2018 05:21
 Operator : SY/AP
 Sample : J5651-01RE
 Misc : 6.01G/5ML/MSVOA W/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200030RE

Quant Time: Oct 25 06:12:39 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	244721	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	360773	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	237754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	69275	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	125978	62.09	ug/l	0.00
Spiked Amount			Recovery	=	124.18%	
35) Dibromofluoromethane	7.88	113	117879	55.30	ug/l	0.00
Spiked Amount			Recovery	=	110.60%	
50) Toluene-d8	10.32	98	310187	38.25	ug/l	0.00
Spiked Amount			Recovery	=	76.50%	
62) 4-Bromofluorobenzene	12.62	95	90828	29.82	ug/l	0.00
Spiked Amount			Recovery	=	59.64%	

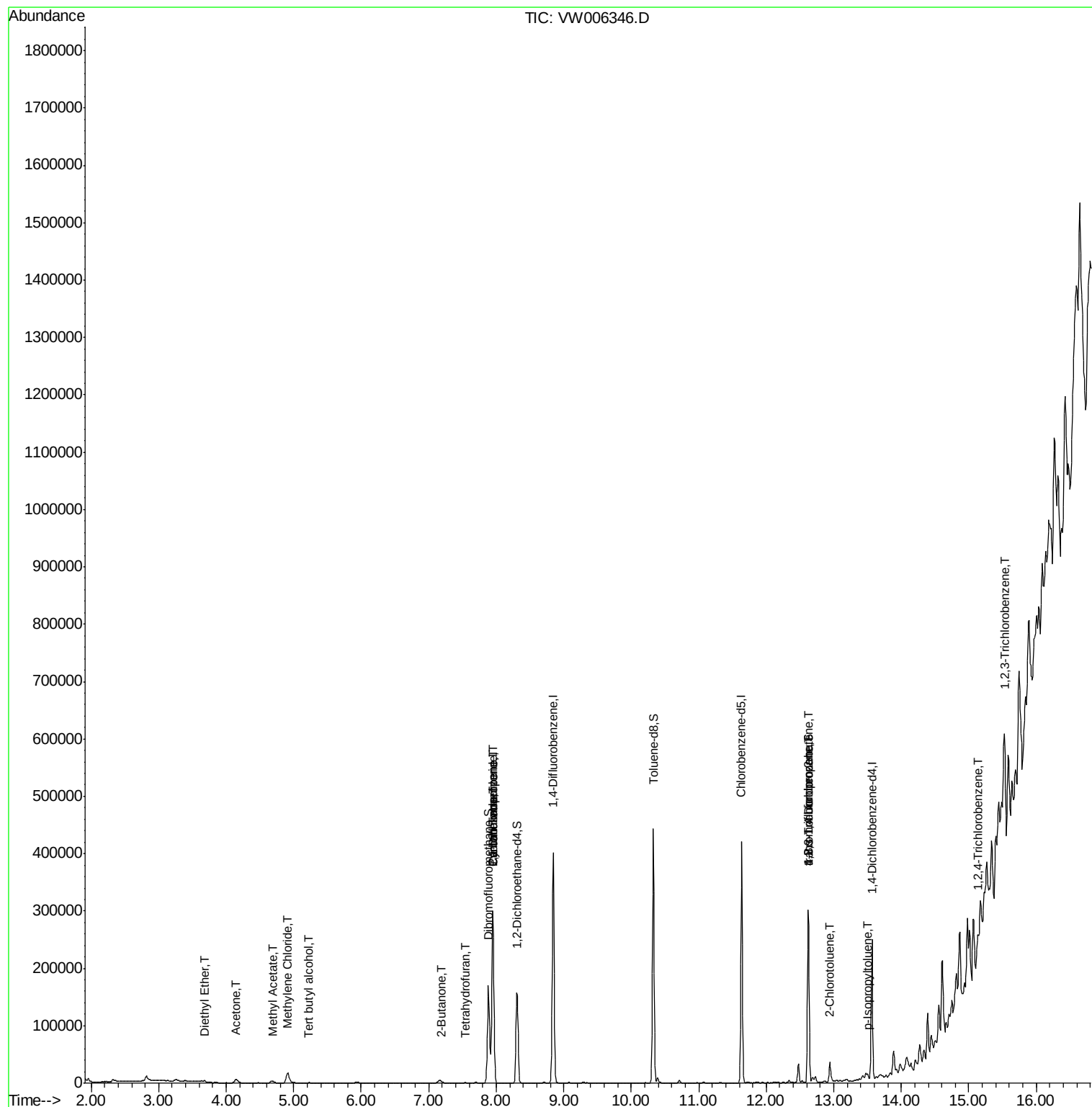
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	1949	1.768	ug/l	91
11) Tert butyl alcohol	5.23	59	1181	8.655	ug/l #	71
16) Acetone	4.15	43	11826	17.289	ug/l	96
18) Methyl Acetate	4.68	43	6833	6.692	ug/l	98
20) Methylene Chloride	4.91	84	15005	5.542	ug/l	89
25) 2-Butanone	7.20	43	2623	4.786	ug/l #	85
29) Tetrahydrofuran	7.55	42	414	1.229	ug/l #	51
31) Cyclohexane	7.95	56	4241	1.142	ug/l #	16
36) 1,1-Dichloropropene	7.95	75	15377	4.624	ug/l #	49
38) Carbon Tetrachloride	7.95	117	21652	5.940	ug/l #	17
76) 1,2,3-Trichloropropane	12.62	75	45626	86.229	ug/l #	100
79) 2-Chlorotoluene	12.94	91	5679	1.775	ug/l #	39
81) trans-1,4-Dichloro-2-buten	12.62	75	45626	206.122	ug/l #	10
86) p-Isopropyltoluene	13.51	119	5326	1.129	ug/l	97
93) 1,2,4-Trichlorobenzene	15.14	180	5199	3.175	ug/l	80
96) 1,2,3-Trichlorobenzene	15.53	180	16908	11.939	ug/l #	23

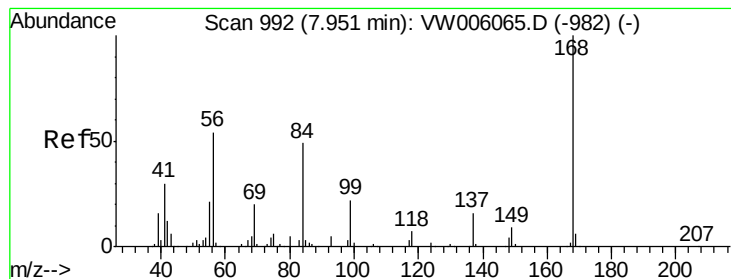
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

Instrument :

MSVOA_W

ClientSampleId :

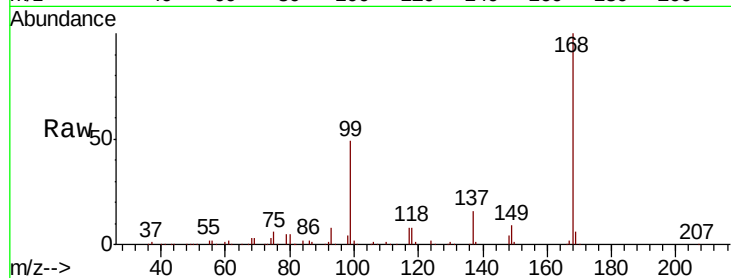
RBR-200030RE

Tot Ion:168 Resp: 244721

Ion Ratio Lower Upper

168 100

99 48.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

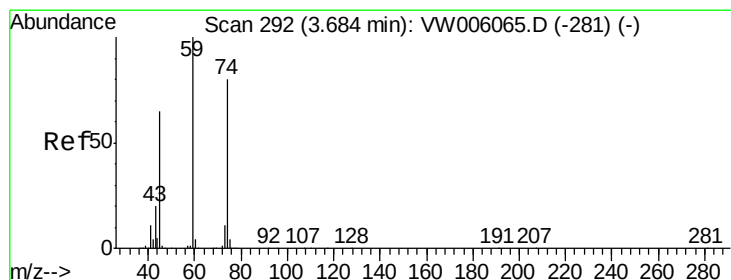
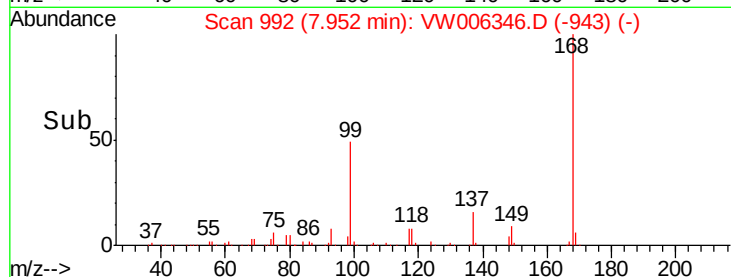
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.768 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW006346.D

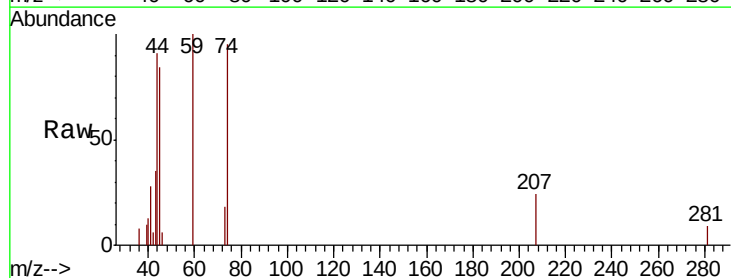
Acq: 25 Oct 2018 05:21

Tgt Ion: 74 Resp: 1949

Ion Ratio Lower Upper

74 100

45 93.6 42.8 128.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

1000

800

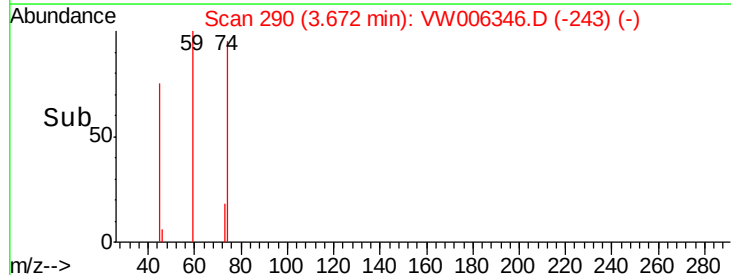
600

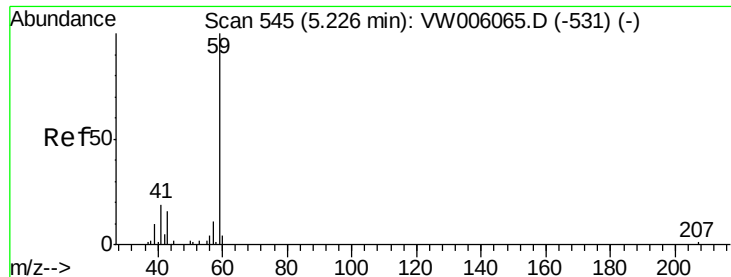
400

200

0

Time-->

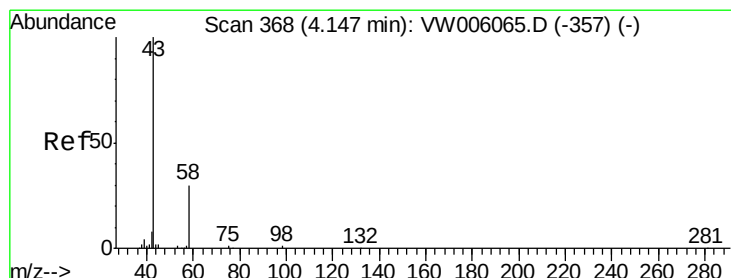
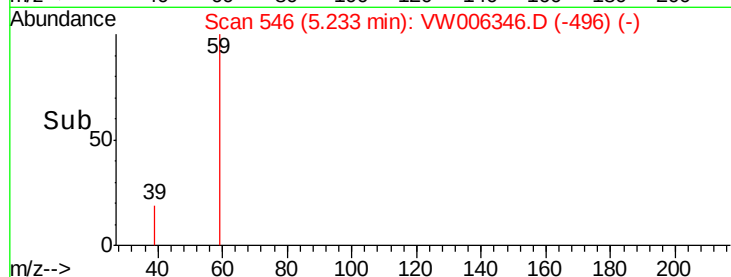
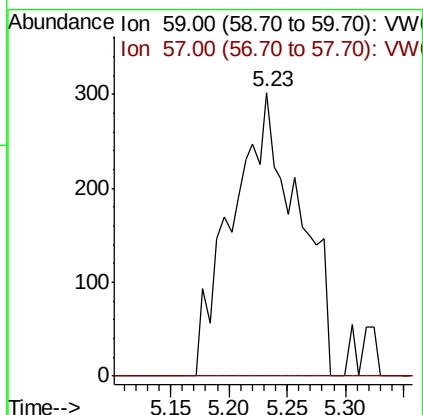
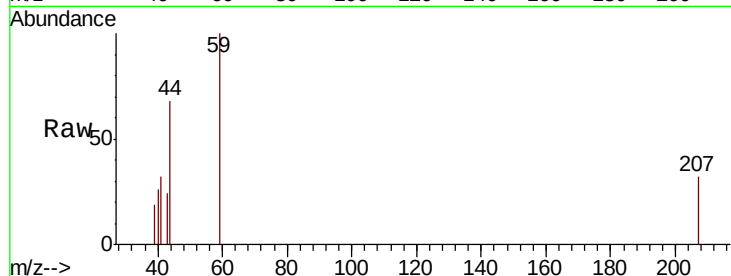




#11
Tert butyl alcohol
Concen: 8.655 ug/l
RT: 5.23 min Scan# 546
Delta R.T. 0.01 min
Lab File: VW006346.D
Acq: 25 Oct 2018 05:21

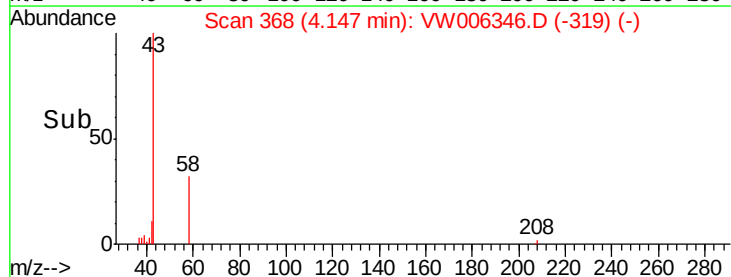
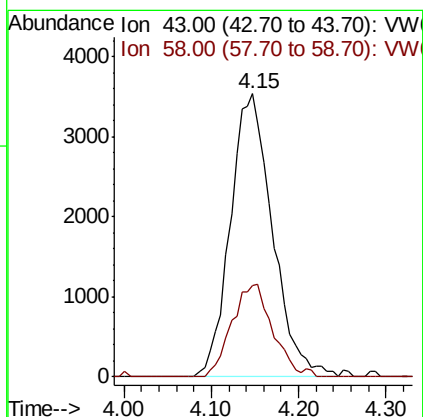
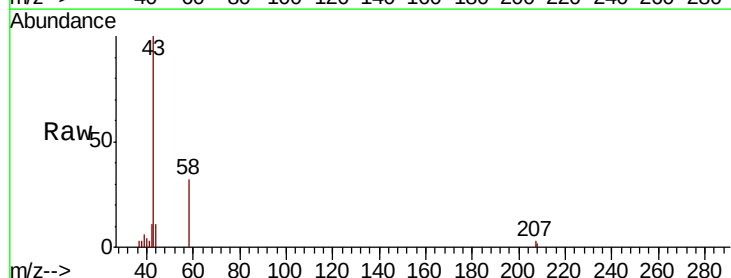
Instrument :
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RBR-200030RE

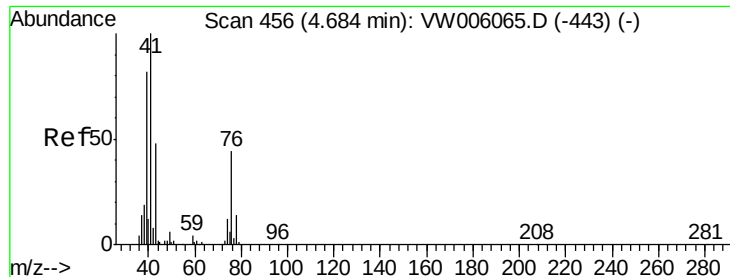
Tot Ion: 59 Resp: 1181
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#16
Acetone
Concen: 17.289 ug/l
RT: 4.15 min Scan# 368
Delta R.T. 0.00 min
Lab File: VW006346.D
Acq: 25 Oct 2018 05:21

Tgt Ion: 43 Resp: 11826
Ion Ratio Lower Upper
43 100
58 32.4 24.0 36.0

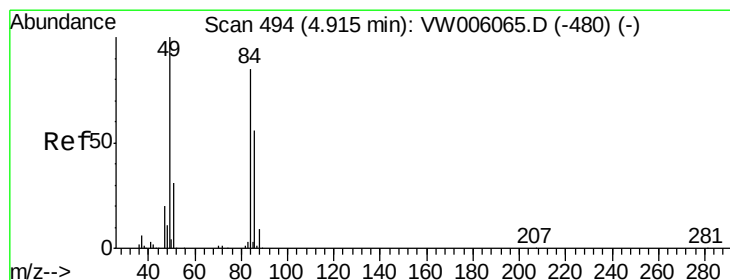
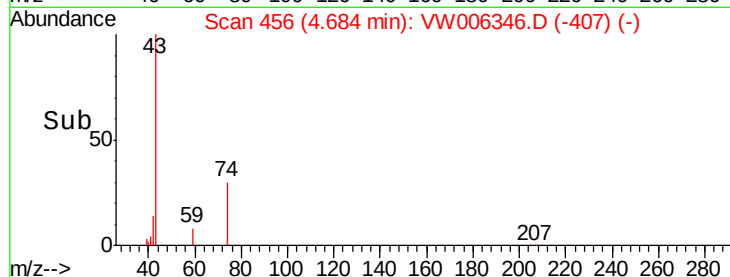
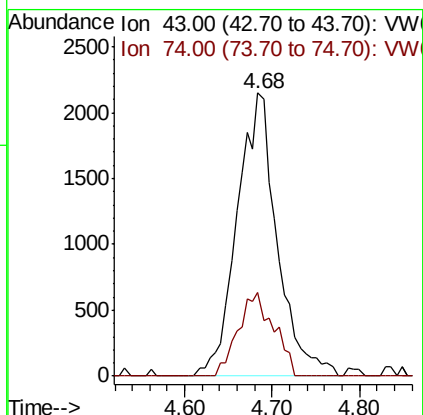
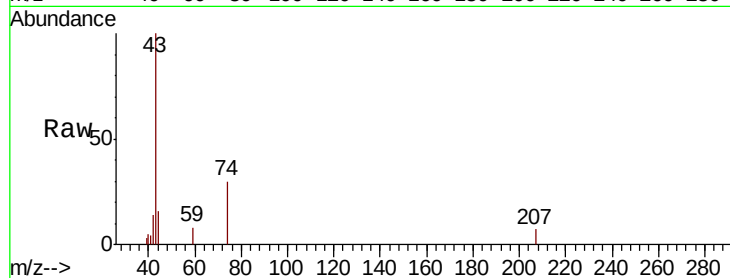




#18
Methyl Acetate
Concen: 6.692 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.00 min
Lab File: VW006346.D
Acq: 25 Oct 2018 05:21

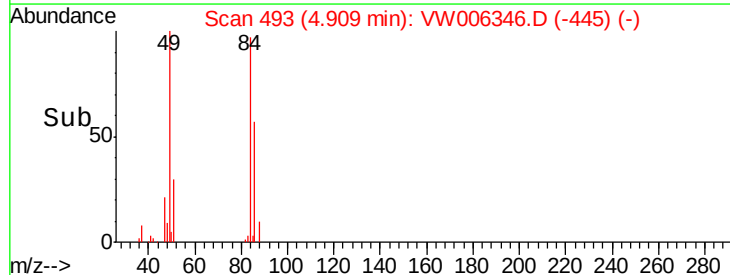
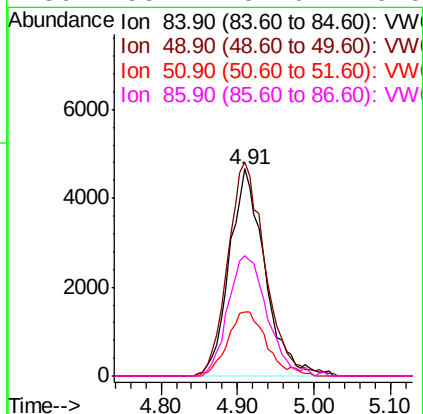
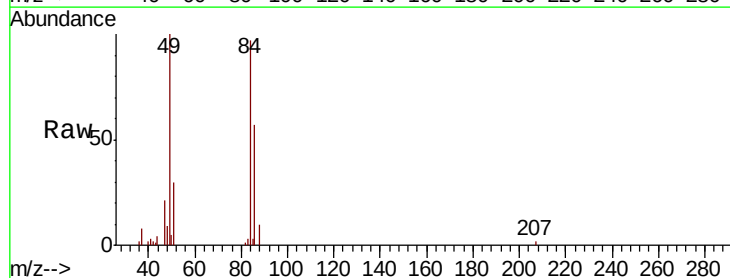
Instrument :
MSVOA_W
ClientSampleId :
RBR-200030RE

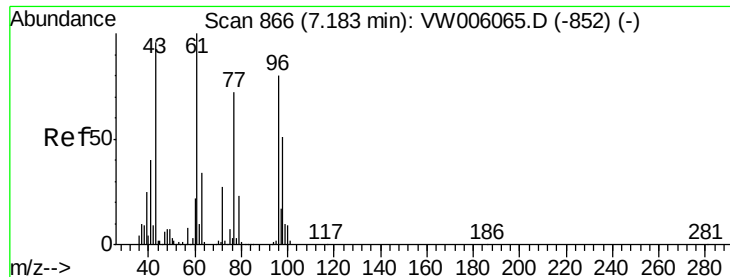
Tot Ion: 43 Resp: 6833
Ion Ratio Lower Upper
43 100
74 26.5 20.5 30.7



#20
Methylene Chloride
Concen: 5.542 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW006346.D
Acq: 25 Oct 2018 05:21

Tgt Ion: 84 Resp: 15005
Ion Ratio Lower Upper
84 100
49 103.1 93.6 140.4
51 31.0 29.0 43.4
86 58.4 52.6 79.0





#25

2-Butanone

Concen: 4.786 ug/l

RT: 7.20 min Scan# 868

Delta R.T. 0.01 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

Instrument :

MSVOA_W

ClientSampleId :

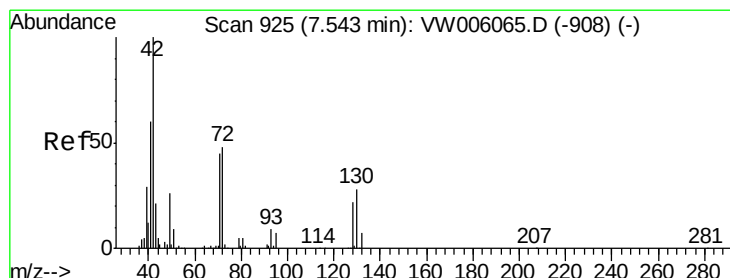
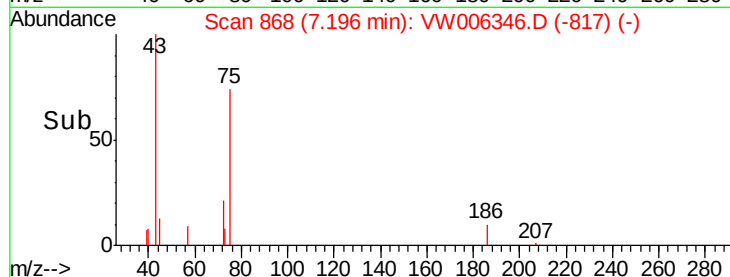
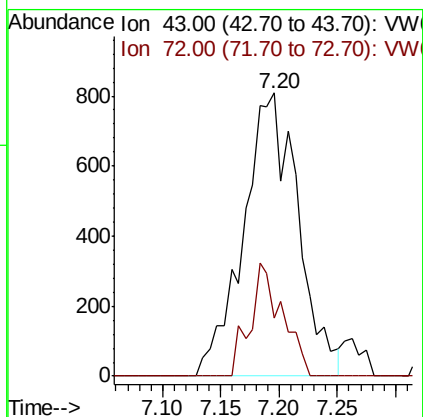
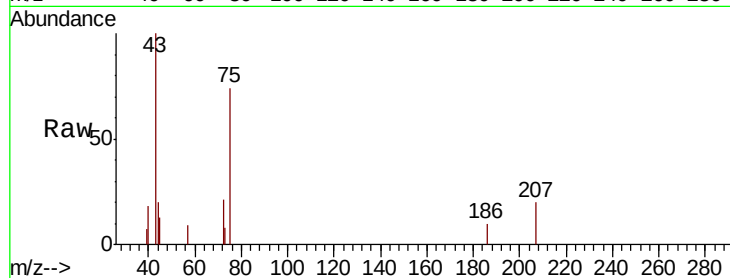
RBR-200030RE

Tot Ion: 43 Resp: 2623

Ion Ratio Lower Upper

43 100

72 20.7 22.8 34.2#



#29

Tetrahydrofuran

Concen: 1.229 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.01 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

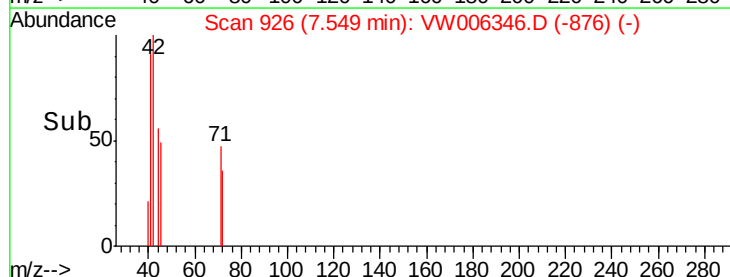
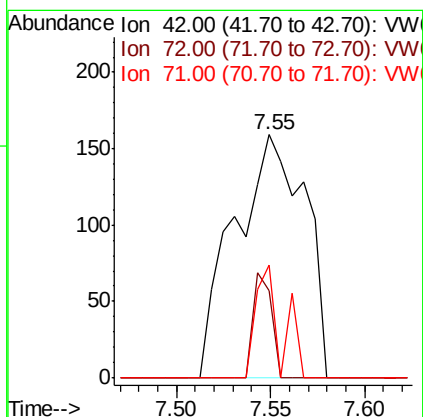
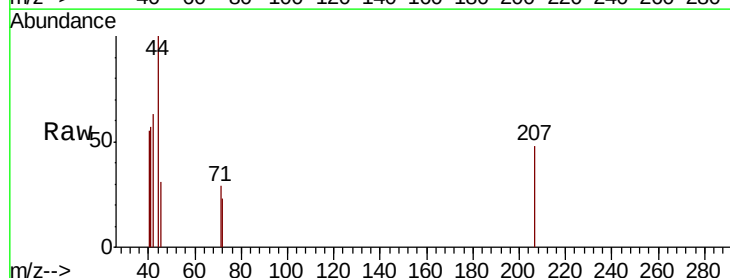
Tgt Ion: 42 Resp: 414

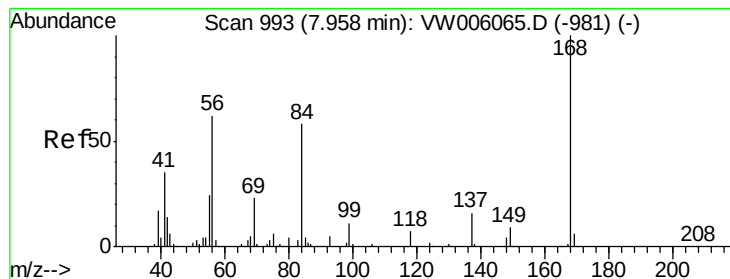
Ion Ratio Lower Upper

42 100

72 11.1 38.0 57.0#

71 16.4 35.3 52.9#





#31

Cyclohexane

Concen: 1.142 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

Instrument :

MSVOA_W

ClientSampleId :

RBR-200030RE

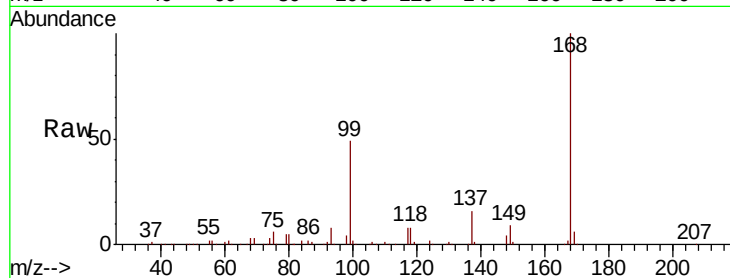
Tot Ion: 56 Resp: 4241

Ion Ratio Lower Upper

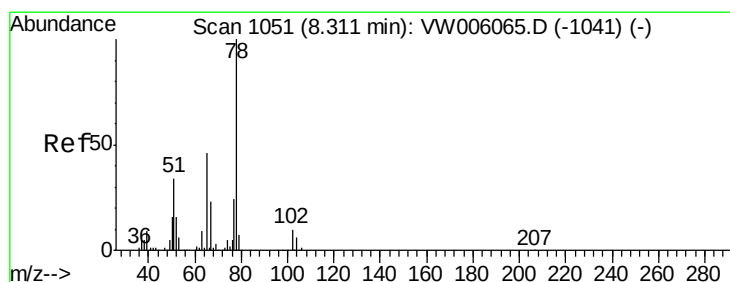
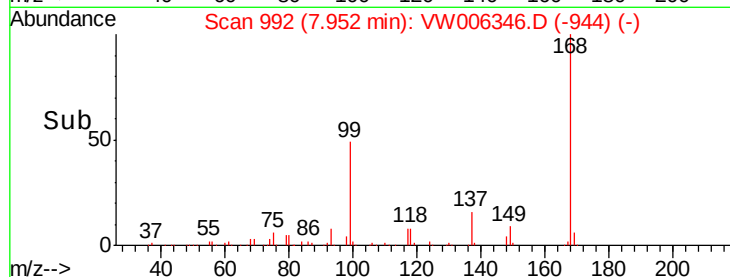
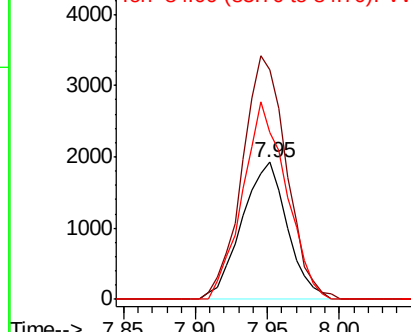
56 100

69 167.3 29.4 44.0#

84 121.2 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: 62.093 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VW006346.D

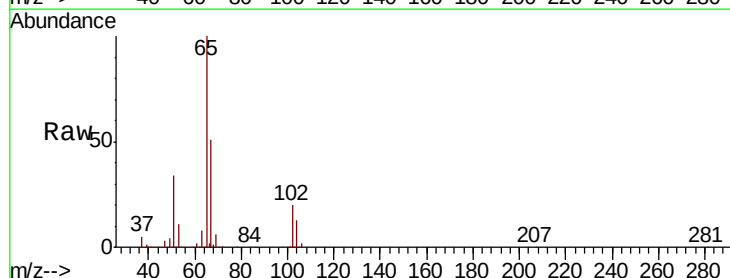
Acq: 25 Oct 2018 05:21

Tgt Ion: 65 Resp: 125978

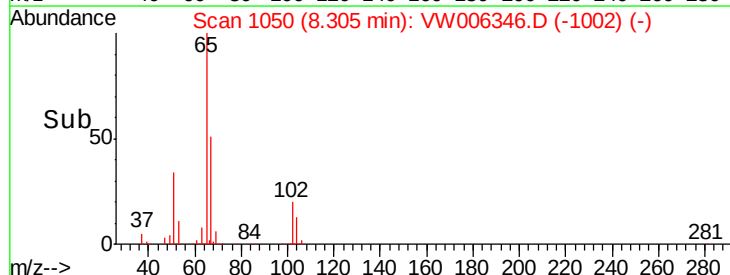
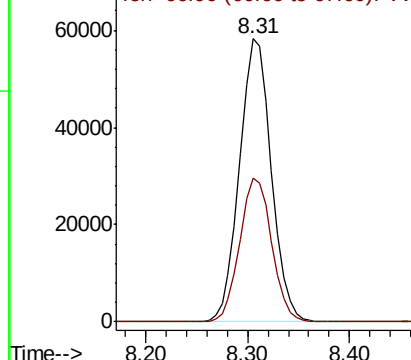
Ion Ratio Lower Upper

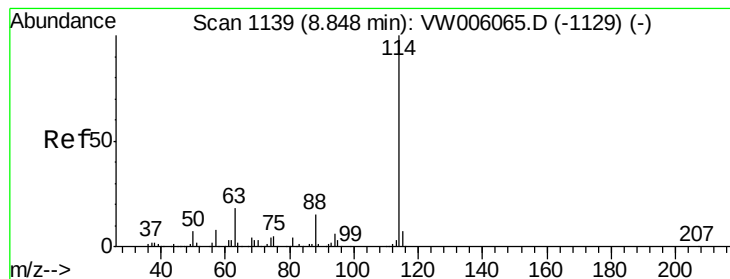
65 100

67 51.2 0.0 101.0



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. -0.01 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

Instrument :

MSVOA_W

ClientSampleId :

RBR-200030RE

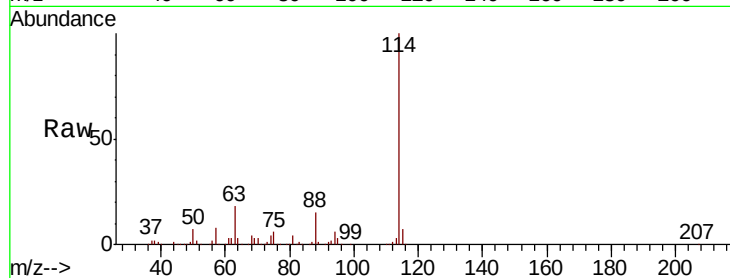
Tot Ion:114 Resp: 360773

Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.8

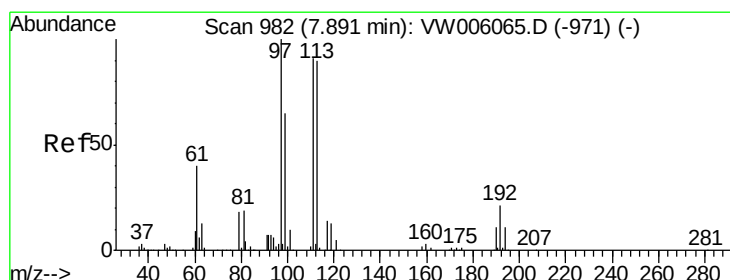
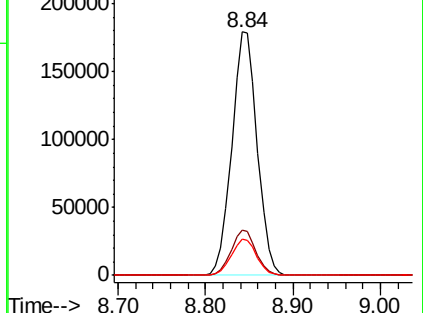
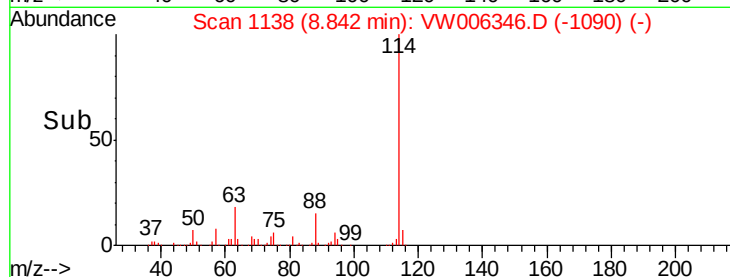
88 14.9 0.0 29.0



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: 55.296 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

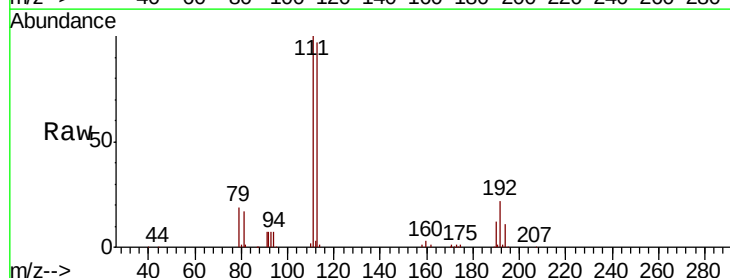
Tgt Ion:113 Resp: 117879

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

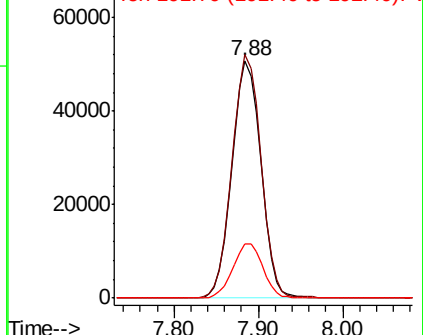
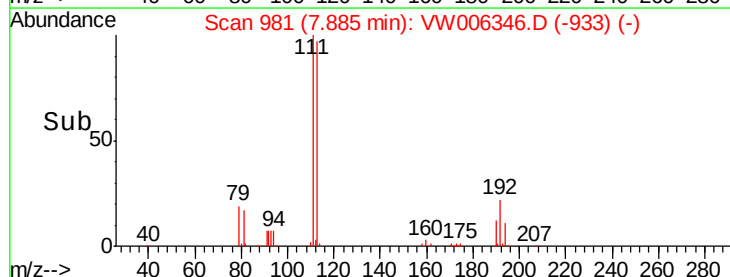
192 23.6 18.7 28.1

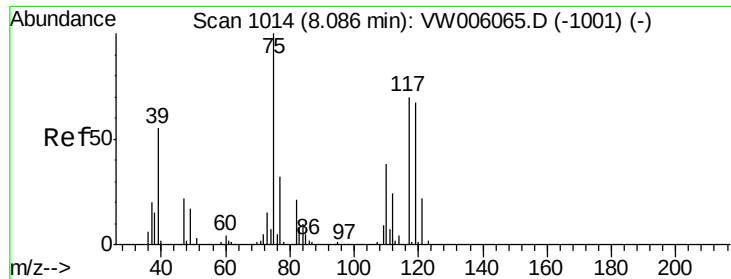


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

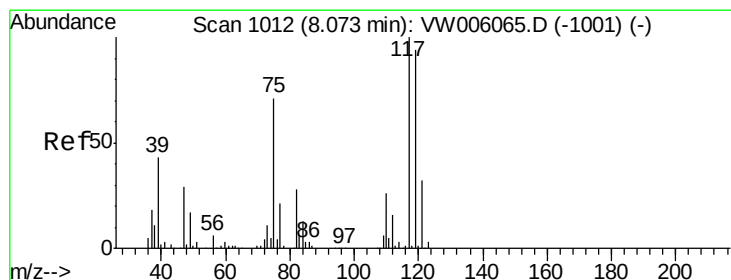
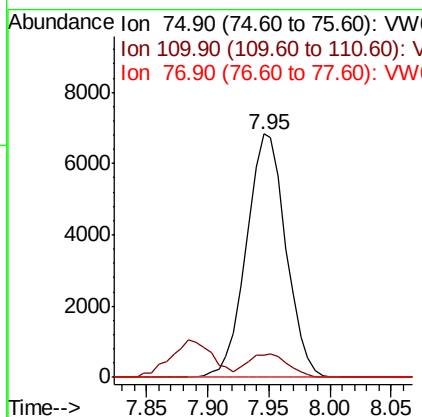
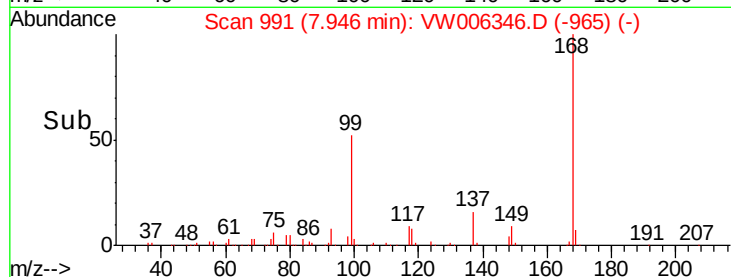
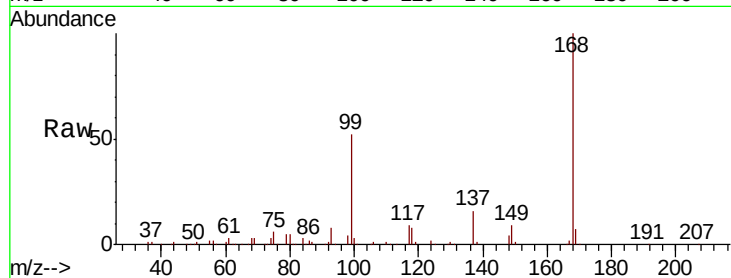




#36
 1,1-Dichloropropene
 Concen: 4.624 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.14 min
 Lab File: VW006346.D
 Acq: 25 Oct 2018 05:21

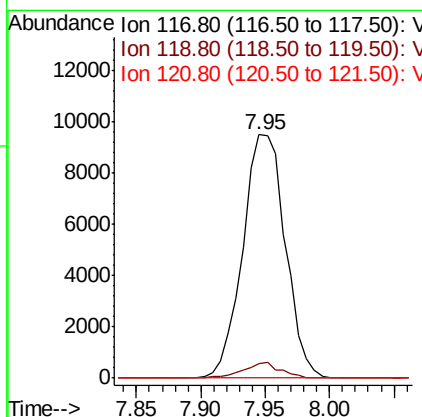
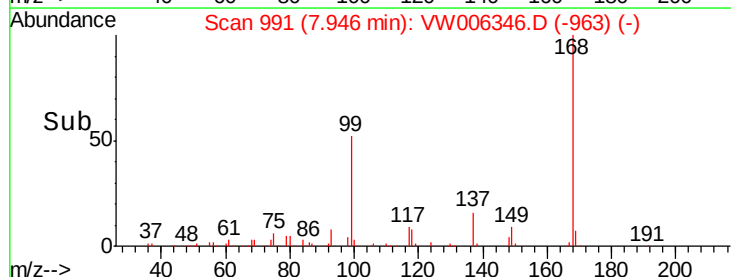
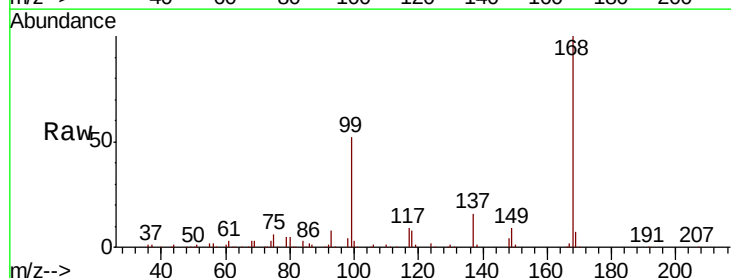
Instrument :
 MSVOA_W
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 RBR-200030RE

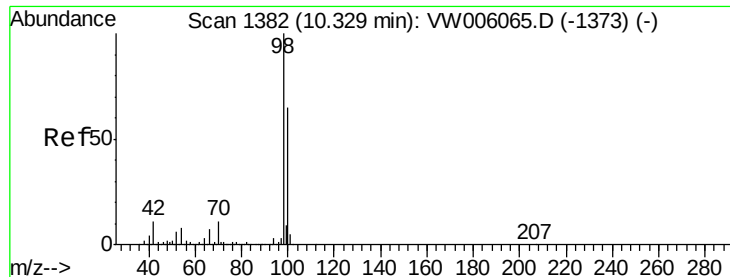
Tot Ion: 75 Resp: 15377
 Ion Ratio Lower Upper
 75 100
 110 9.8 19.1 57.1#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.940 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW006346.D
 Acq: 25 Oct 2018 05:21

Tgt Ion: 117 Resp: 21652
 Ion Ratio Lower Upper
 117 100
 119 5.8 75.2 112.8#
 121 0.0 25.3 37.9#





#50

Toluene-d8

Concen: 38.246 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

Instrument :

MSVOA_W

ClientSampleId :

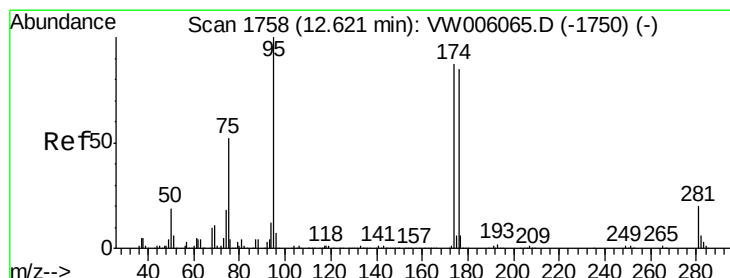
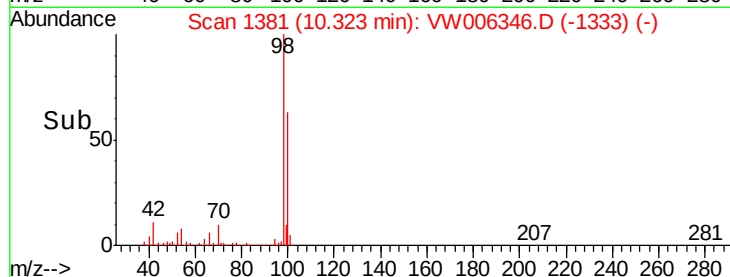
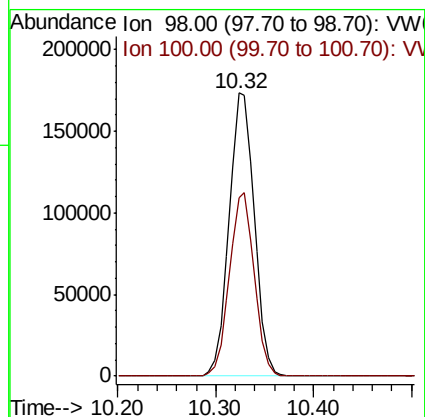
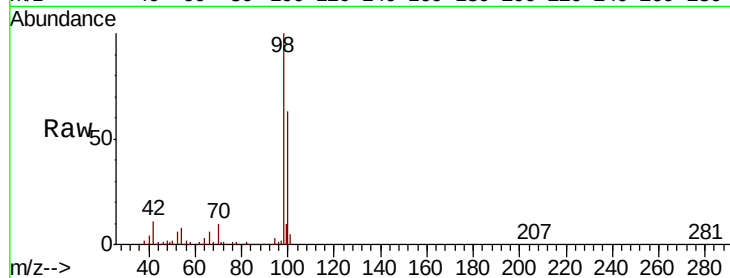
RBR-200030RE

Tot Ion: 98 Resp: 310187

Ion Ratio Lower Upper

98 100

100 63.7 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 29.817 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

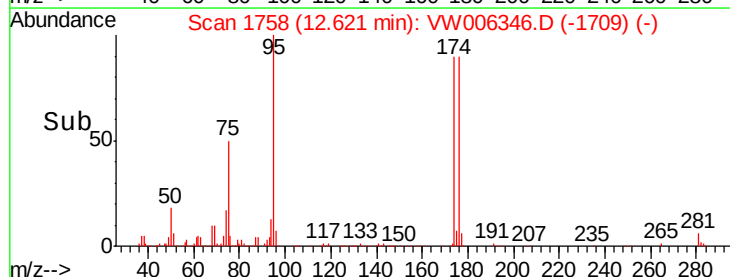
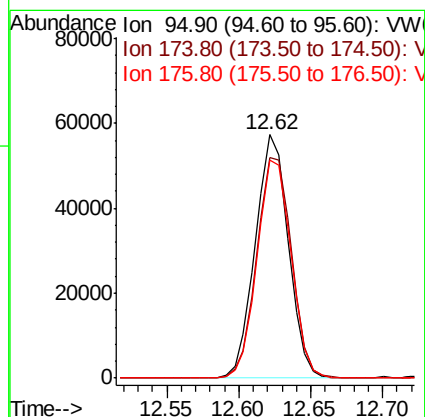
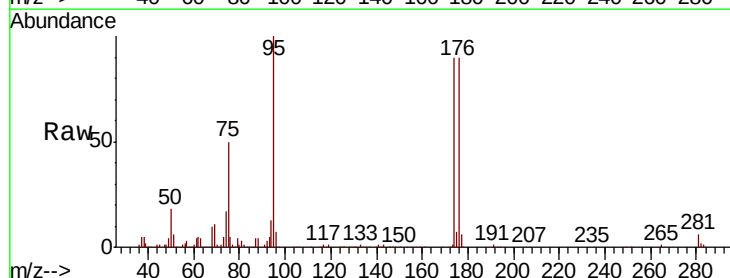
Tgt Ion: 95 Resp: 90828

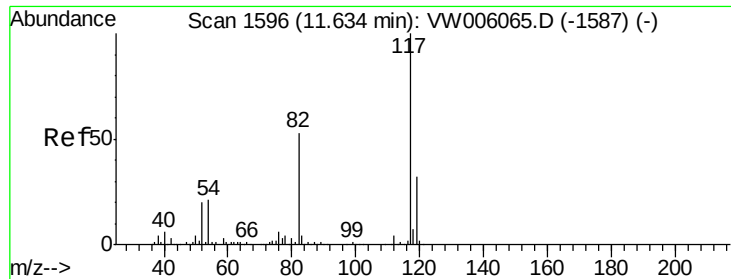
Ion Ratio Lower Upper

95 100

174 95.1 0.0 186.0

176 92.2 0.0 181.6

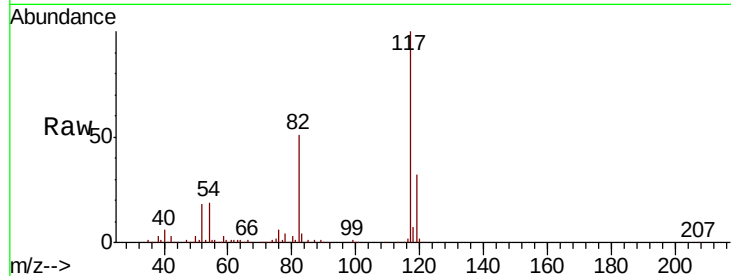




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW006346.D
Acq: 25 Oct 2018 05:21

Instrument :
MSVOA_W
ClientSampleId :
RBR-200030RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.5	42.1	63.1
119	32.4	25.8	38.6

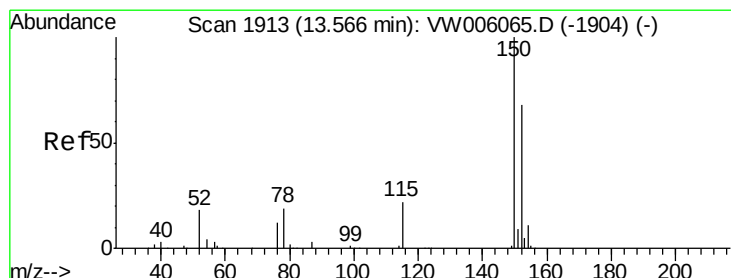
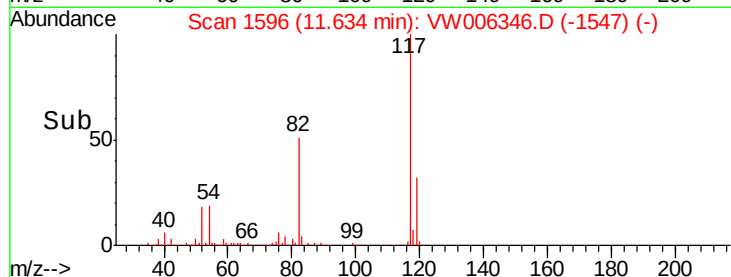
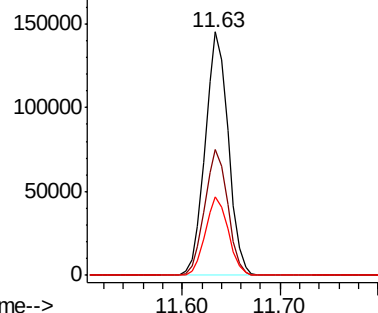


Abundance

Ion 116.90 (116.60 to 117.60): V

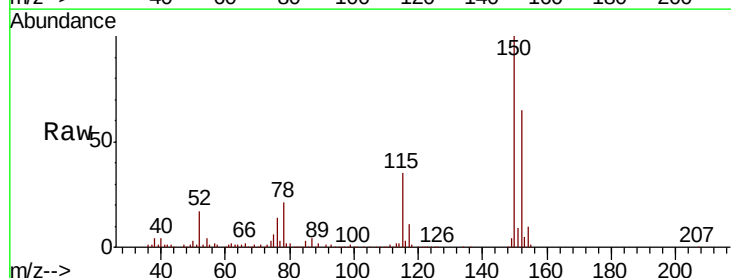
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW006346.D
Acq: 25 Oct 2018 05:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.0	27.8	83.3
150	154.9	0.0	349.2

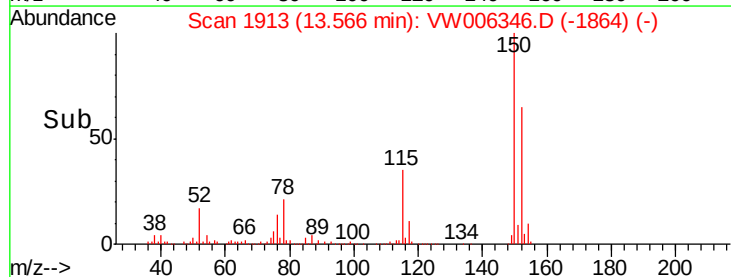
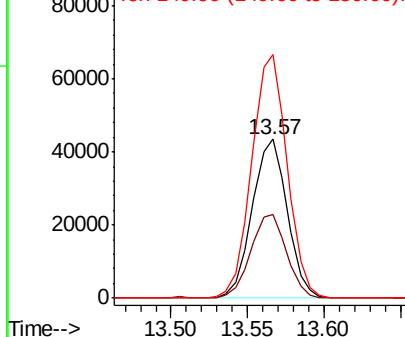


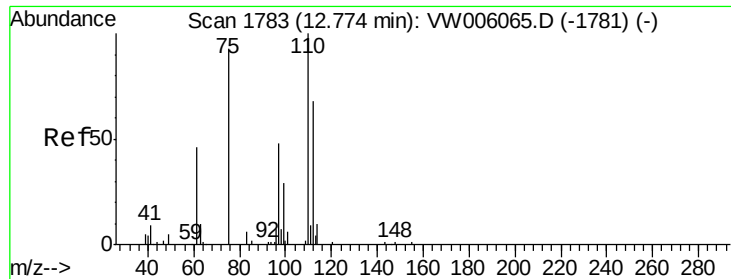
Abundance

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: 86.229 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

Instrument :

MSVOA_W

ClientSampleId :

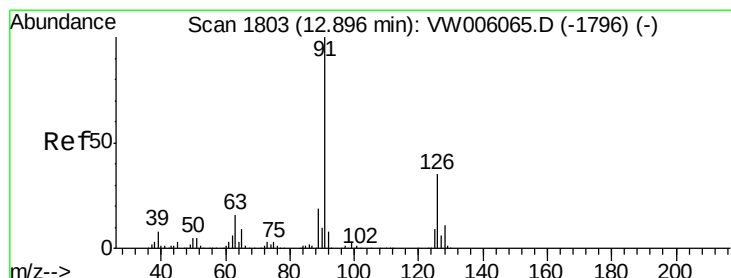
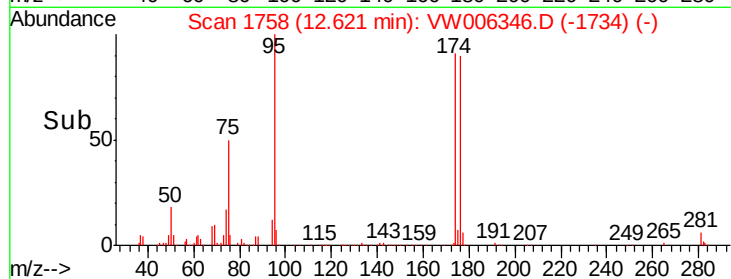
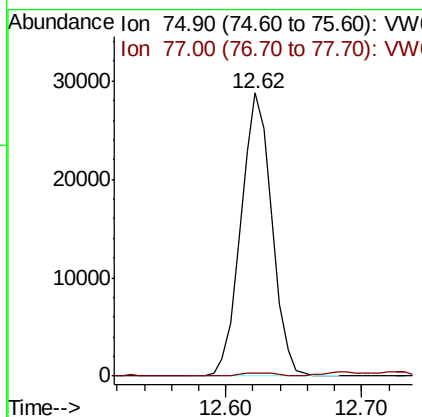
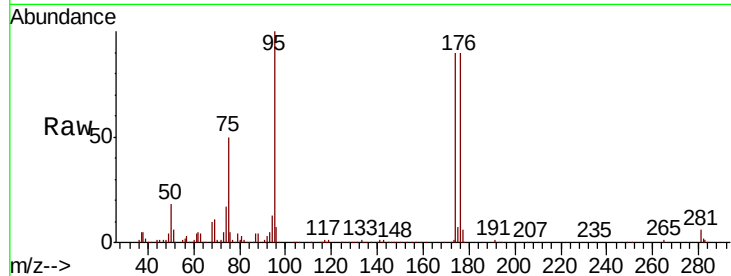
RBR-200030RE

Tot Ion: 75 Resp: 45626

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#79

2-Chlorotoluene

Concen: 1.775 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.05 min

Lab File: VW006346.D

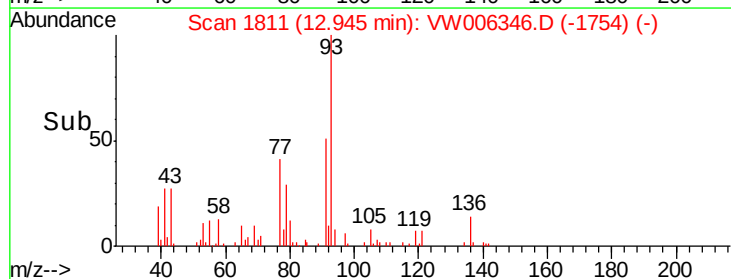
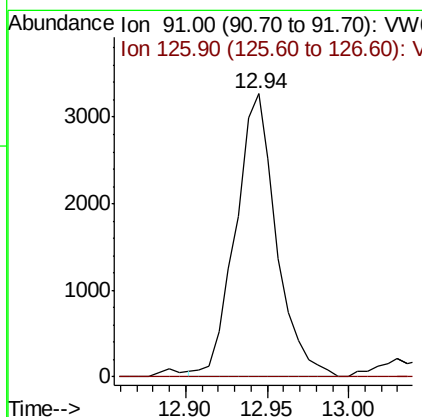
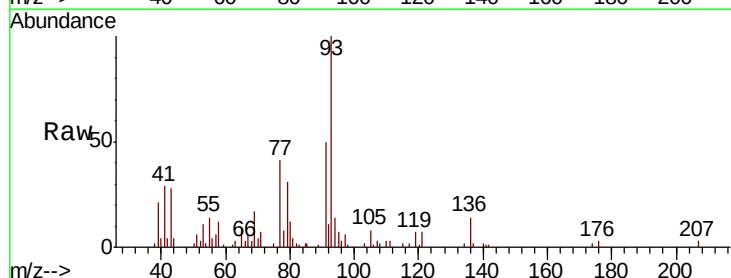
Acq: 25 Oct 2018 05:21

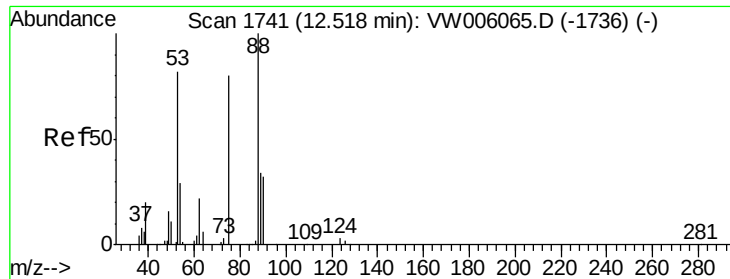
Tgt Ion: 91 Resp: 5679

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 206.122 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

Instrument :

MSVOA_W

ClientSampleId :

RBR-200030RE

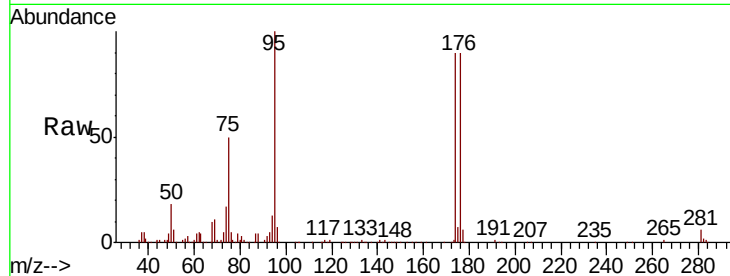
Tot Ion: 75 Resp: 45626

Ion Ratio Lower Upper

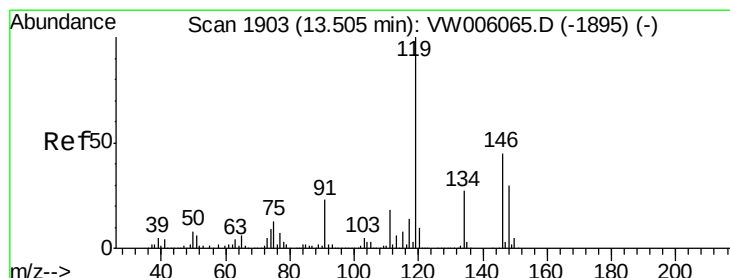
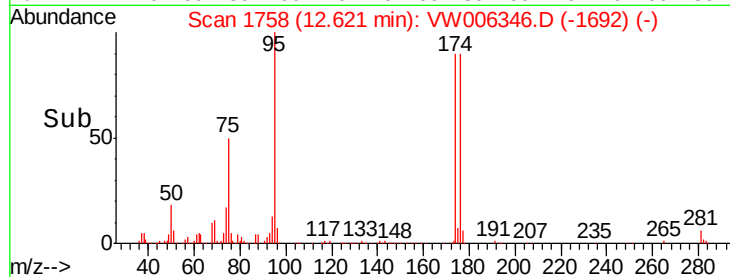
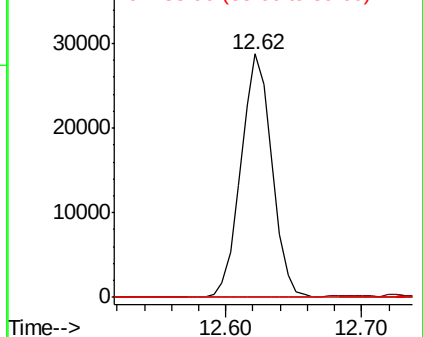
75 100

53 0.0 79.8 119.6#

89 0.0 37.5 56.3#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#86

p-Isopropyltoluene

Concen: 1.129 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VW006346.D

Acq: 25 Oct 2018 05:21

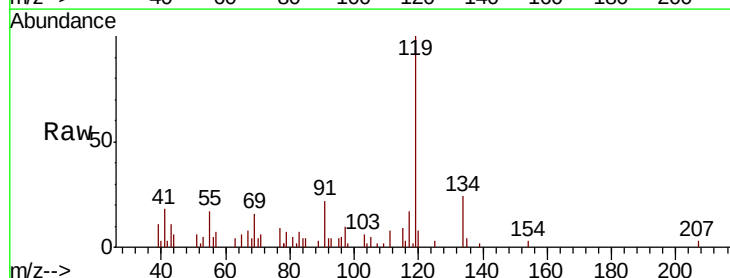
Tgt Ion: 119 Resp: 5326

Ion Ratio Lower Upper

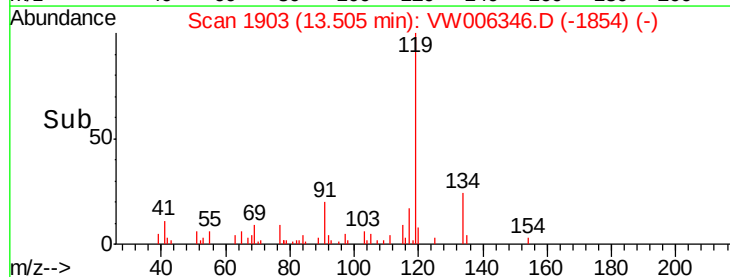
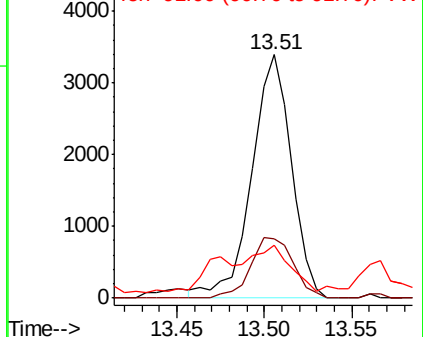
119 100

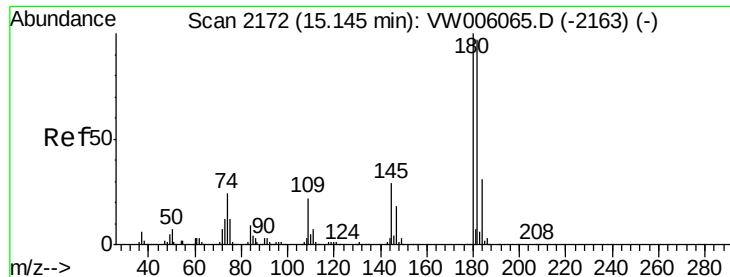
134 26.8 13.4 40.2

91 19.8 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): VW

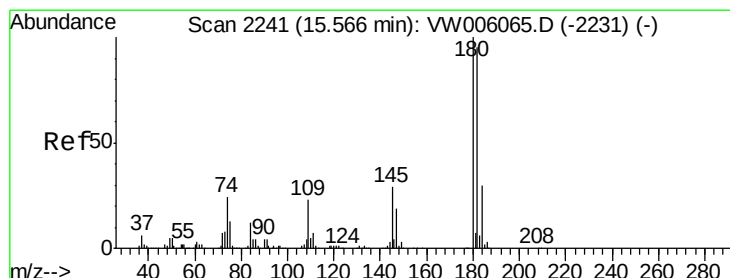
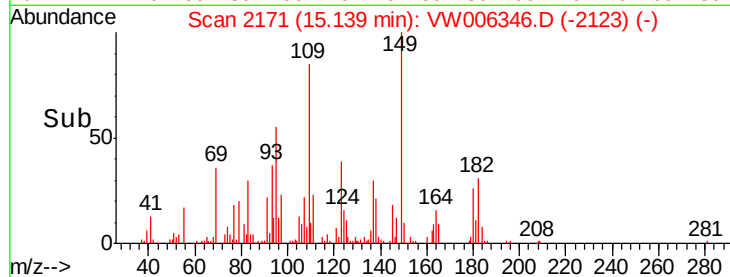
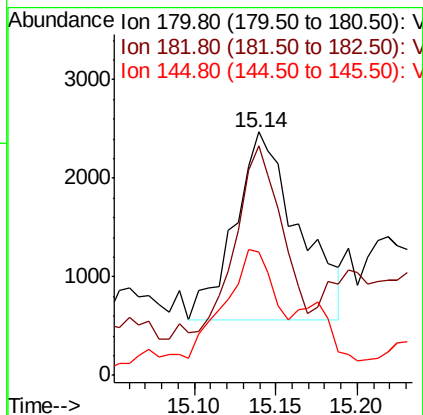
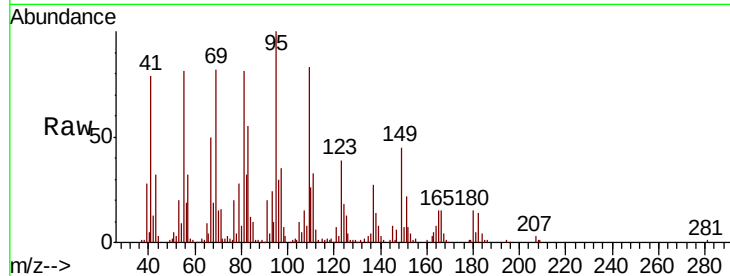




#93
 1,2,4-Trichlorobenzene
 Concen: 3.175 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: VW006346.D
 Acq: 25 Oct 2018 05:21

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200030RE

Tot Ion:180 Resp: 5199
 Ion Ratio Lower Upper
 180 100
 182 78.4 47.9 143.6
 145 42.0 14.2 42.8



#96
 1,2,3-Trichlorobenzene
 Concen: 11.939 ug/l
 RT: 15.53 min Scan# 2235
 Delta R.T. -0.04 min
 Lab File: VW006346.D
 Acq: 25 Oct 2018 05:21

Tgt Ion:180 Resp: 16908
 Ion Ratio Lower Upper
 180 100
 182 8.2 47.8 143.3#
 145 10.0 15.0 45.1#

