

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011020\
 Data File : VW014600.D
 Acq On : 10 Jan 2020 15:32
 Operator : SY/VA
 Sample : L1070-04
 Misc : 6.65G/5ML/MSVOA W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200059

Quant Time: Jan 11 03:59:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 03 16:07:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	90610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	136752	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	129158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	44548	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	52997	66.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.80%	
35) Dibromofluoromethane	7.88	113	49767	63.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.36%	
50) Toluene-d8	10.32	98	191406	58.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.36%	
62) 4-Bromofluorobenzene	12.62	95	63175	57.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.20%	

Target Compounds

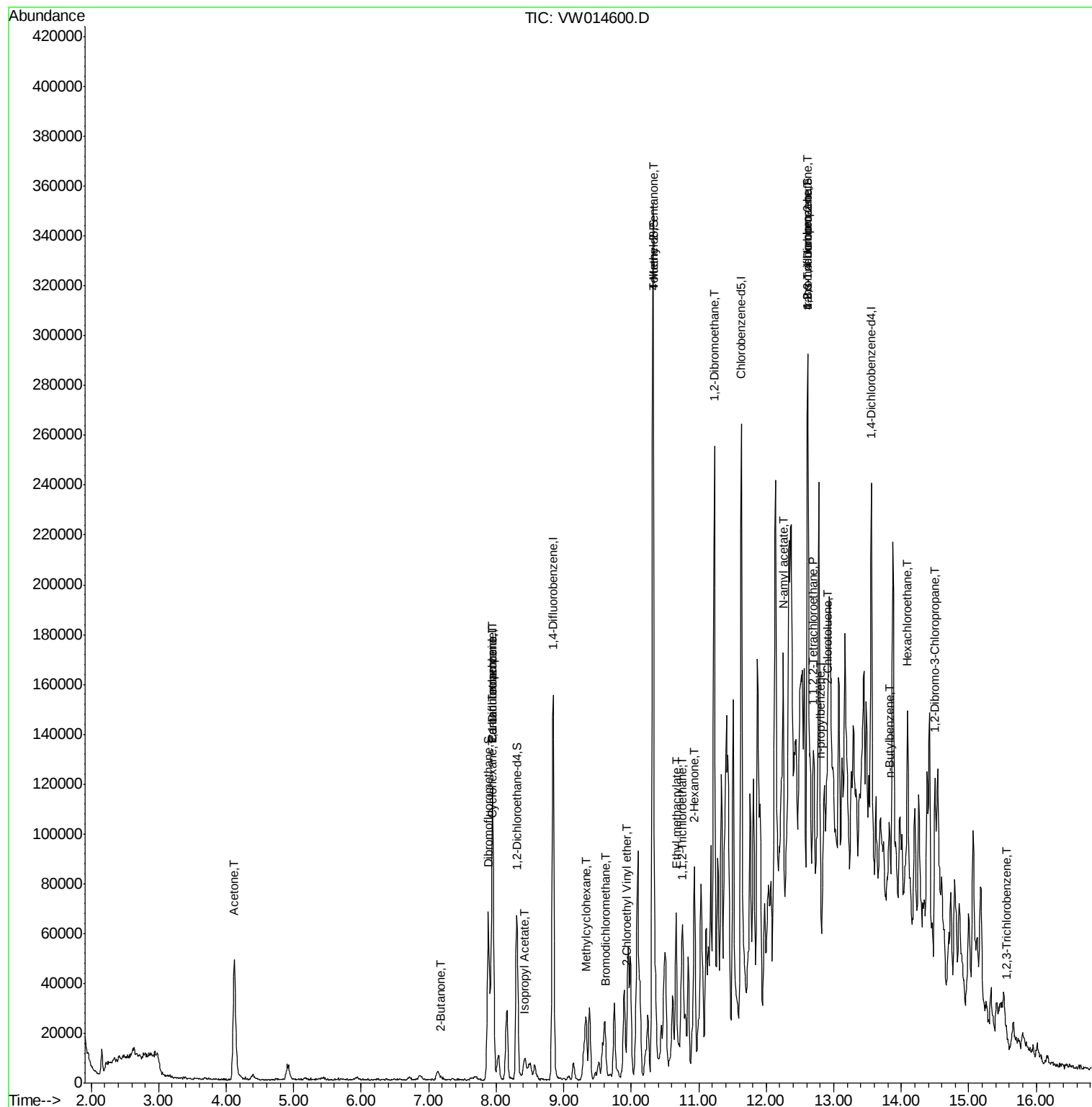
					Qvalue	
11) Tert butyl alcohol	5.16	59	530	Below Cal	#	73
16) Acetone	4.12	43	85391	381.728	ug/l	98
20) Methylene Chloride	4.90	84	1907	Below Cal		93
25) 2-Butanone	7.18	43	668	2.327	ug/l #	47
31) Cyclohexane	7.93	56	5441	3.218	ug/l #	60
36) 1,1-Dichloropropene	7.95	75	6843	5.191	ug/l #	49
38) Carbon Tetrachloride	7.95	117	7994	6.989	ug/l #	15
39) Methylcyclohexane	9.32	83	1849	1.093	ug/l	95
43) Isopropyl Acetate	8.41	43	3243	2.987	ug/l #	51
47) Bromodichloromethane	9.62	83	4277	3.834	ug/l #	25
51) 4-Methyl-2-Pentanone	10.32	43	4005	7.103	ug/l	98
55) 1,1,2-Trichloroethane	10.76	97	16848	25.529	ug/l #	22
56) Ethyl methacrylate	10.66	69	6528	7.611	ug/l #	18
58) 2-Chloroethyl Vinyl ether	9.93	63	406	1.556	ug/l #	46
59) 2-Hexanone	10.93	43	29028	74.713	ug/l #	28
61) 1,2-Dibromoethane	11.23	107	1270	2.027	ug/l #	3
74) N-amyl acetate	12.25	43	30655	41.826	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.69	83	5687	9.639	ug/l #	55
76) 1,2,3-Trichloropropane	12.62	75	26418	62.722	ug/l #	100
78) n-propylbenzene	12.80	91	4763	1.239	ug/l	96
79) 2-Chlorotoluene	12.90	91	3908	1.787	ug/l #	56
81) trans-1,4-Dichloro-2-buten	12.62	75	26418	139.746	ug/l #	18
89) n-Butylbenzene	13.82	91	9556	3.394	ug/l #	65
90) Hexachloroethane	14.10	117	3750	7.081	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.50	75	444	4.752	ug/l #	4
96) 1,2,3-Trichlorobenzene	15.56	180	867	1.135	ug/l #	83

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

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Quant Title : SW846 8260
QLast Update : Fri Jan 03 16:07:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Instrument :

MSVOA_W

ClientSampleId :

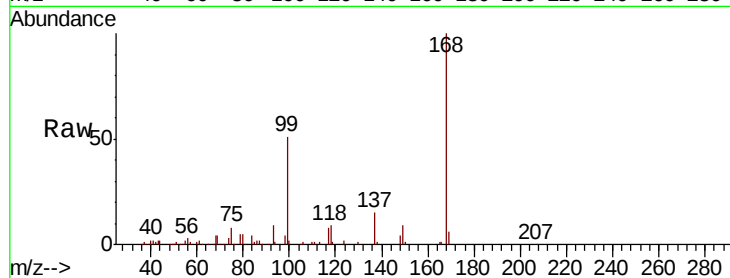
RBR-200059

Tot Ion:168 Resp: 90610

Ion Ratio Lower Upper

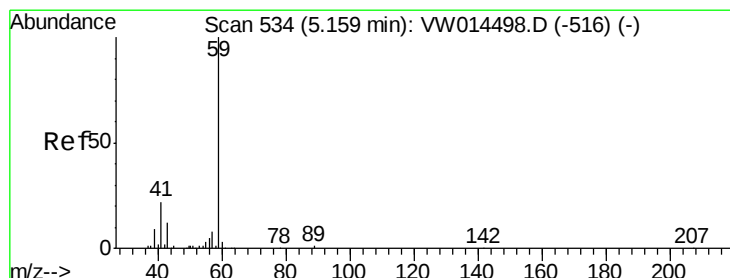
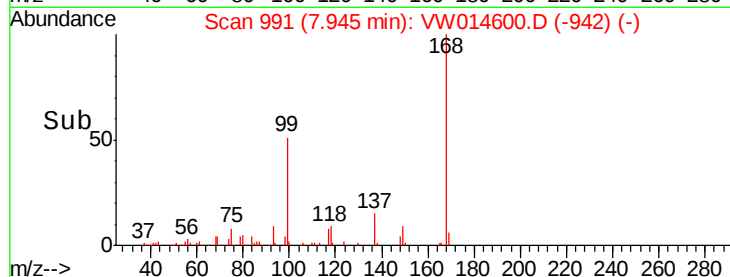
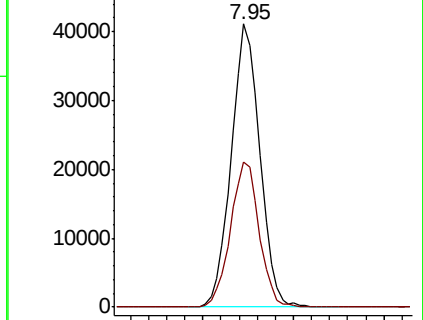
168 100

99 51.2 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.16 min Scan# 534

Delta R.T. 0.00 min

Lab File: VW014600.D

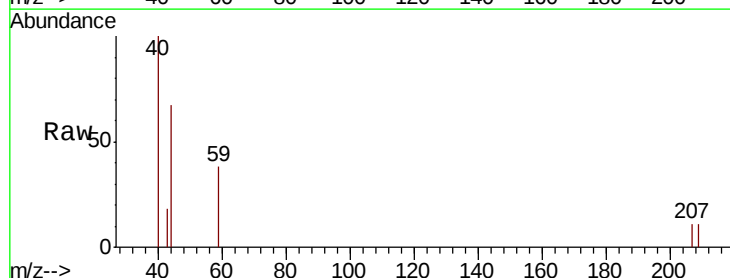
Acq: 10 Jan 2020 15:32

Tgt Ion: 59 Resp: 530

Ion Ratio Lower Upper

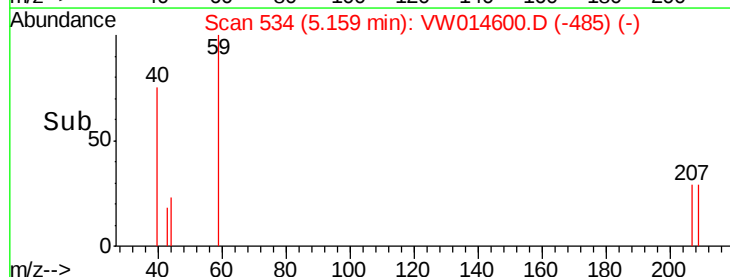
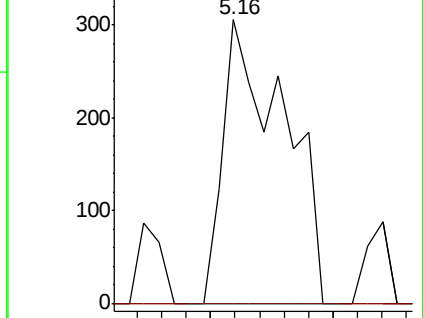
59 100

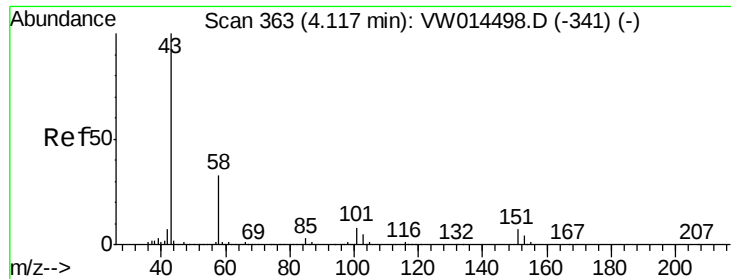
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 381.728 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Instrument :

MSVOA_W

ClientSampleId :

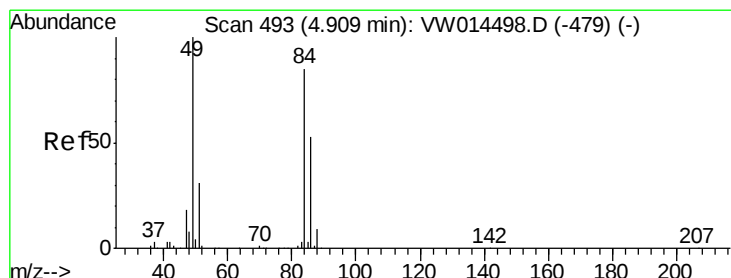
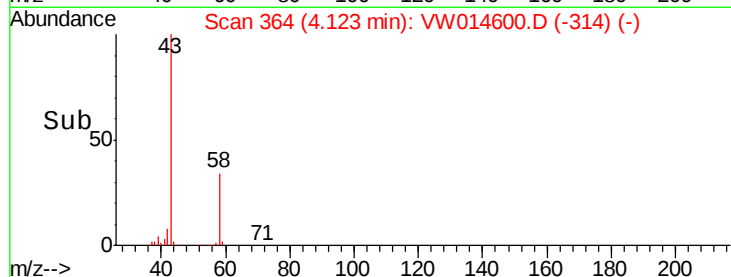
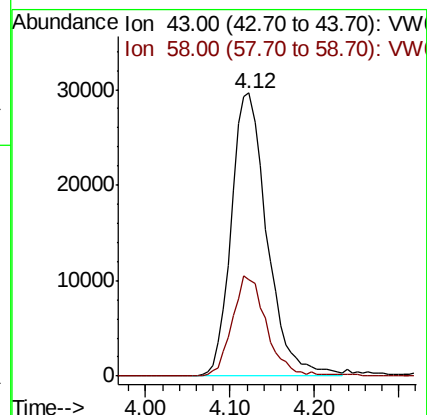
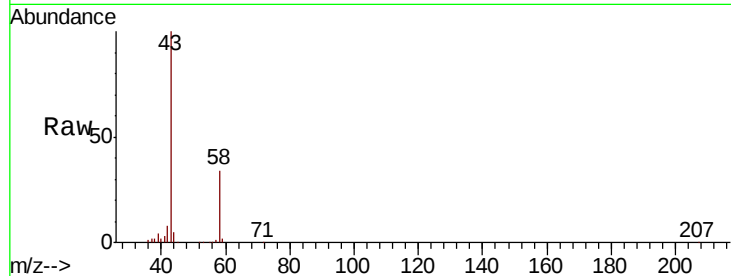
RBR-200059

Tot Ion: 43 Resp: 85391

Ion Ratio Lower Upper

43 100

58 34.1 26.6 39.8



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Tgt Ion: 84 Resp: 1907

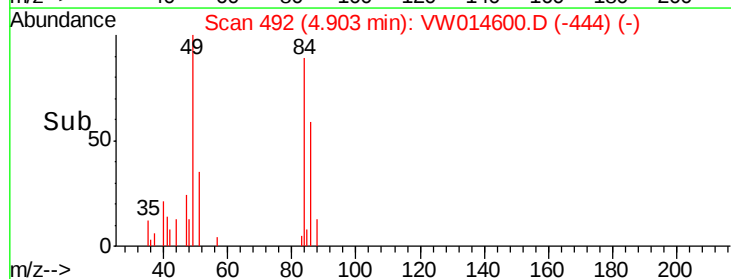
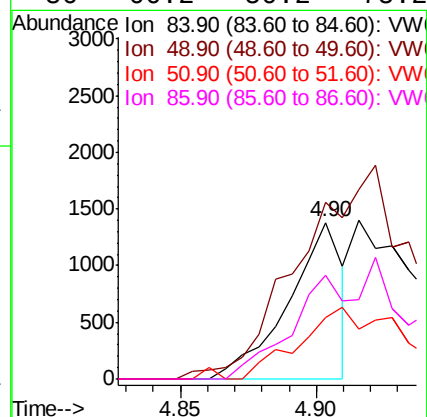
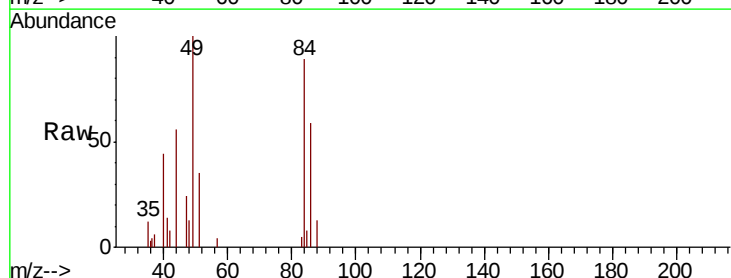
Ion Ratio Lower Upper

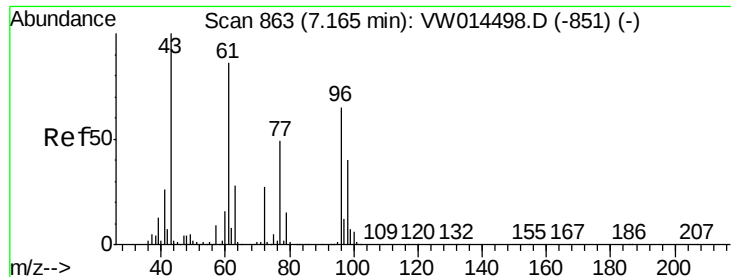
84 100

49 107.4 94.4 141.6

51 39.1 29.5 44.3

86 66.2 50.2 75.2

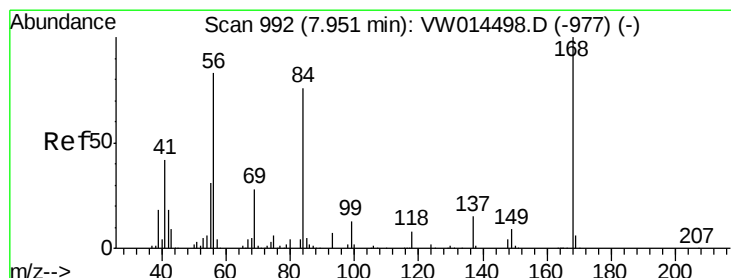
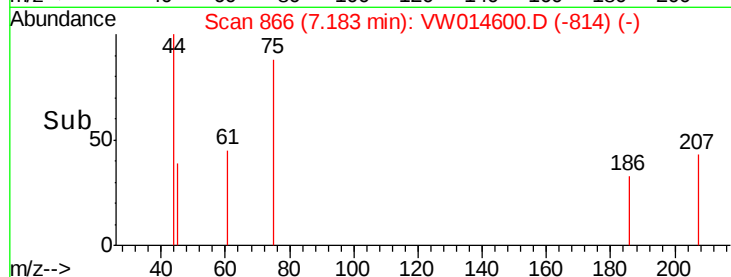
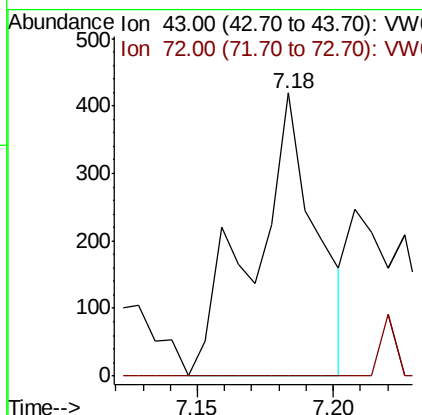
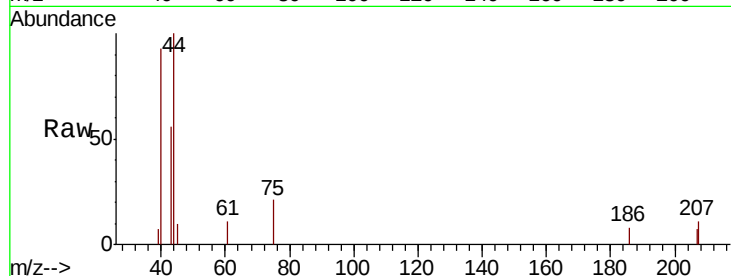




#25
2-Butanone
Concen: 2.327 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.02 min
Lab File: VW014600.D
Acq: 10 Jan 2020 15:32

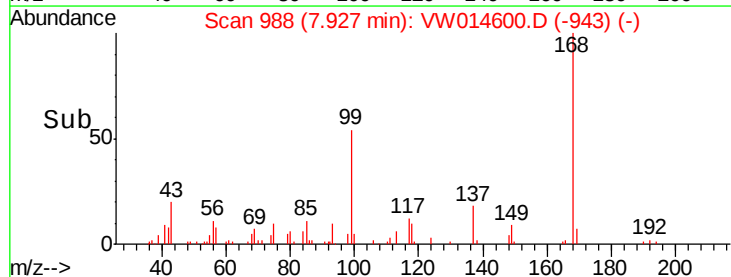
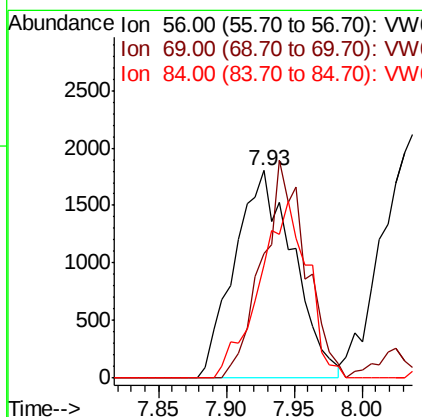
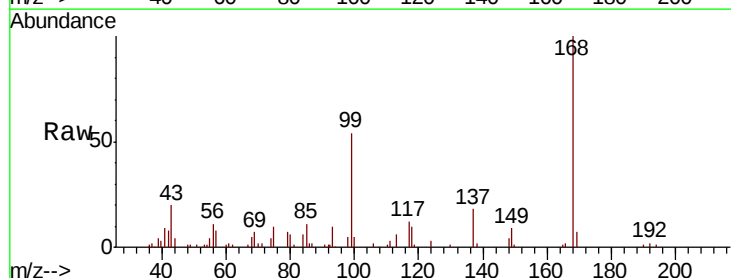
Instrument :
MSVOA_W
ClientSampled :
RBR-200059

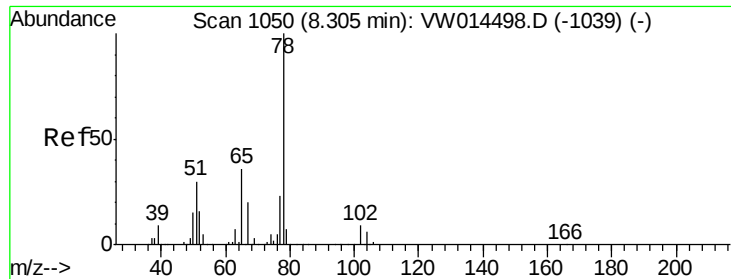
Tot Ion: 43 Resp: 668
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#



#31
Cyclohexane
Concen: 3.218 ug/l
RT: 7.93 min Scan# 988
Delta R.T. -0.02 min
Lab File: VW014600.D
Acq: 10 Jan 2020 15:32

Tgt Ion: 56 Resp: 5441
Ion Ratio Lower Upper
56 100
69 59.8 26.8 40.2#
84 54.2 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 66.897 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Instrument :

MSVOA_W

ClientSampleId :

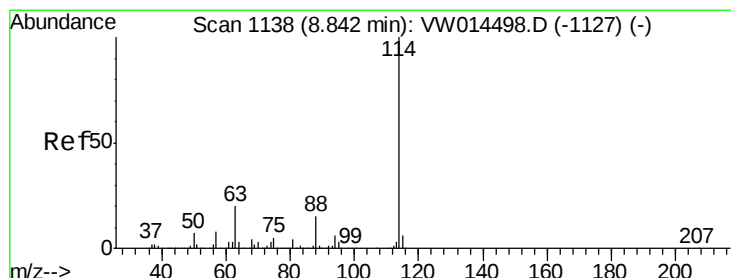
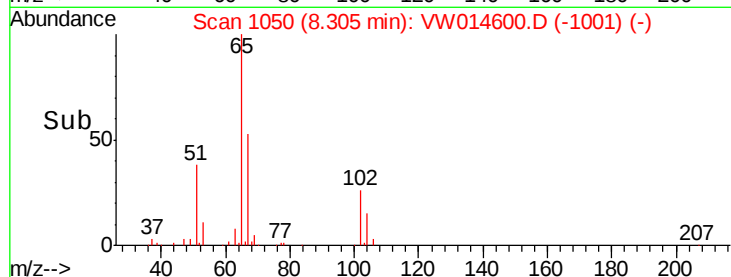
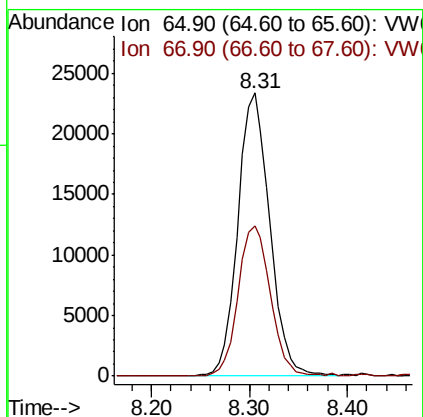
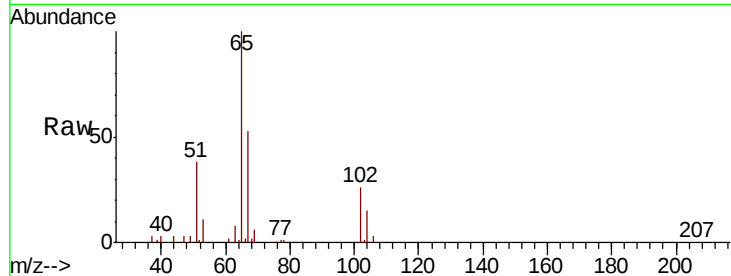
RBR-200059

Tot Ion: 65 Resp: 52997

Ion Ratio Lower Upper

65 100

67 53.4 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

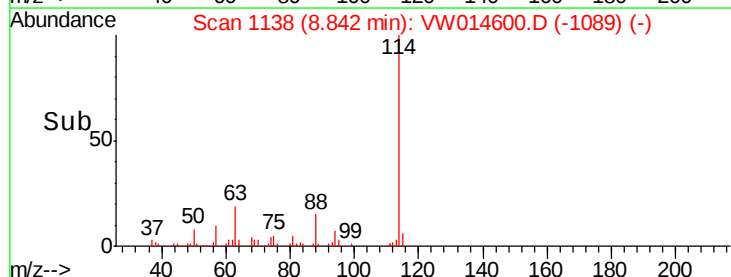
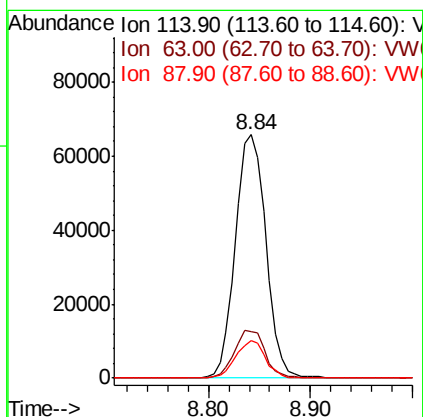
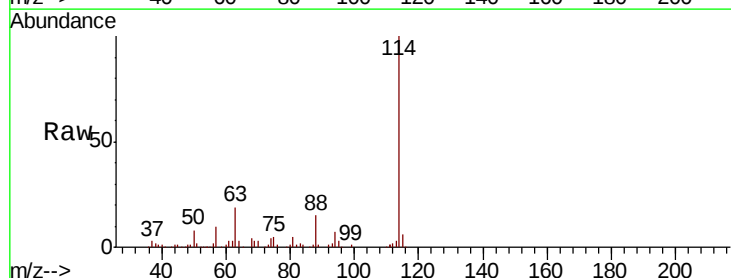
Tgt Ion: 114 Resp: 136752

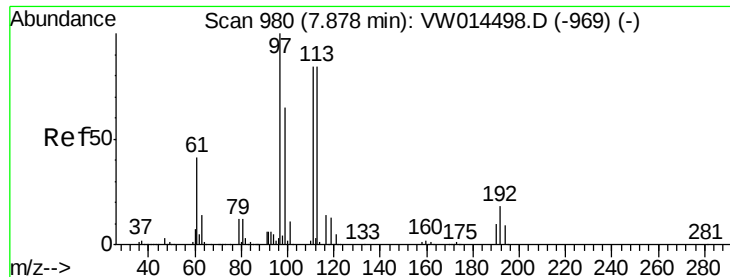
Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.4

88 15.4 0.0 30.6

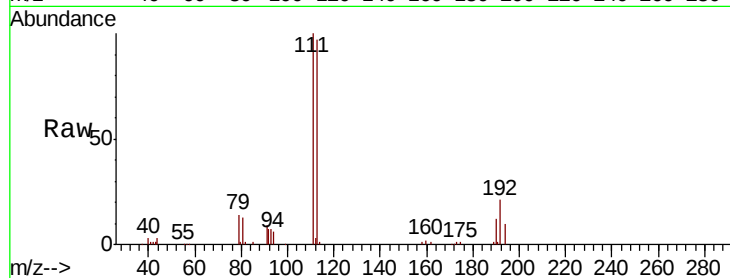




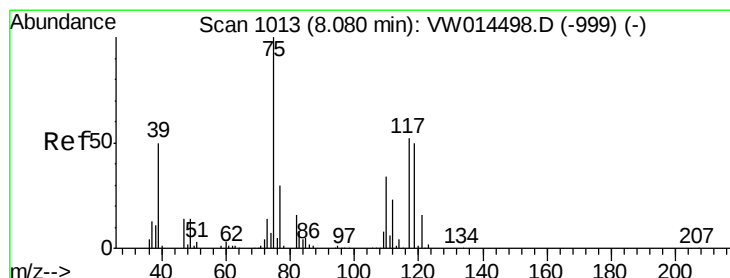
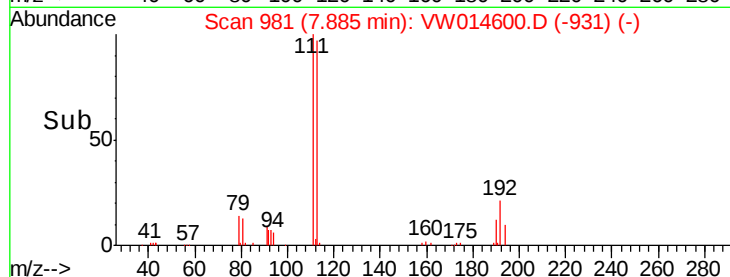
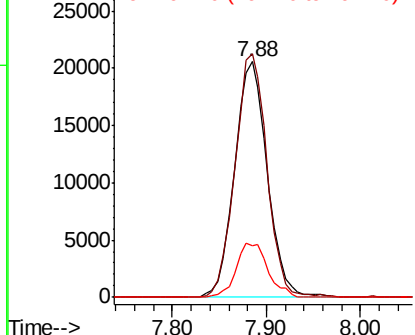
#35
 Dibromofluoromethane
 Concen: 63.676 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200059

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.4	122.2
192	22.3	17.8	26.8

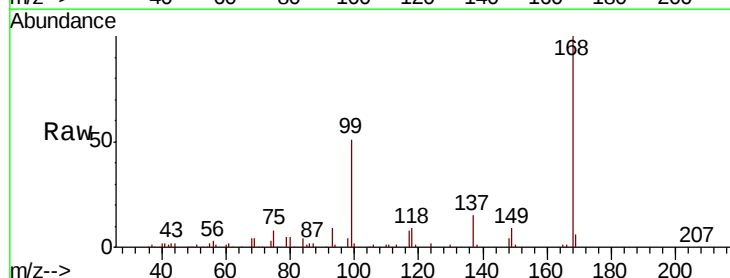


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

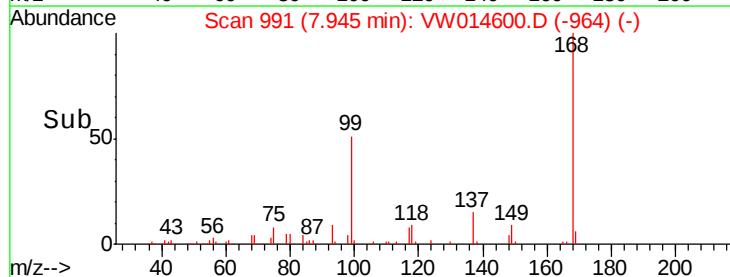
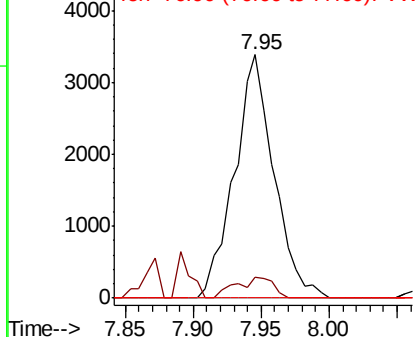


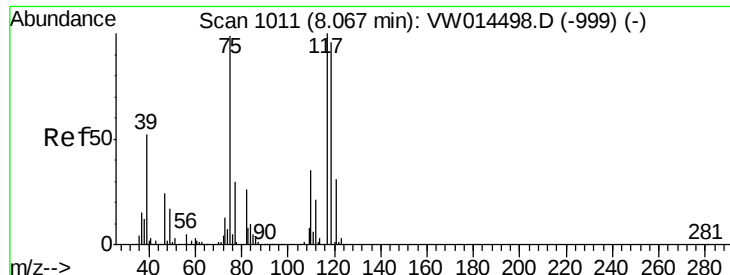
#36
 1,1-Dichloropropene
 Concen: 5.191 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.8	53.5#
77	0.0	24.7	37.1#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.989 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Instrument :

MSVOA_W

ClientSampleId :

RBR-200059

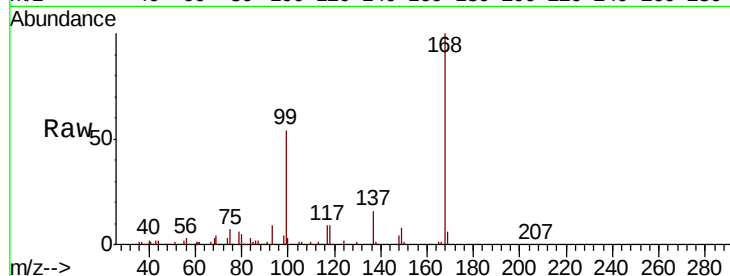
Tot Ion:117 Resp: 7994

Ion Ratio Lower Upper

117 100

119 3.5 77.0 115.6#

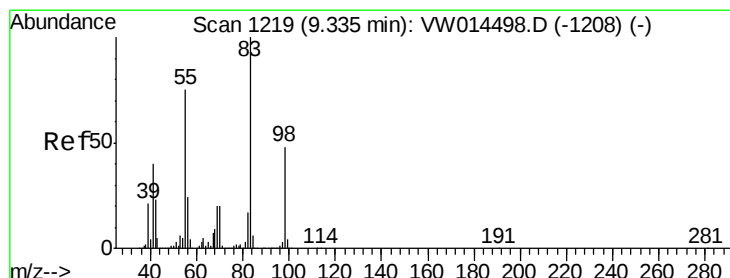
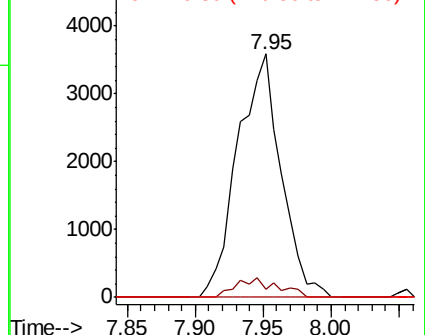
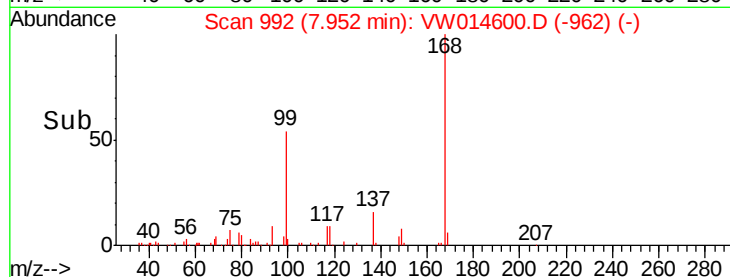
121 0.0 24.6 36.8#



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: 1.093 ug/l

RT: 9.32 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

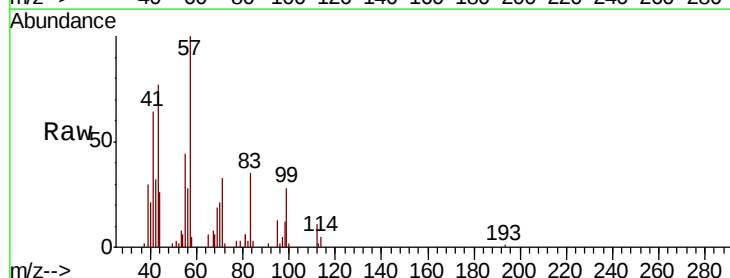
Tgt Ion: 83 Resp: 1849

Ion Ratio Lower Upper

83 100

55 74.1 60.1 90.1

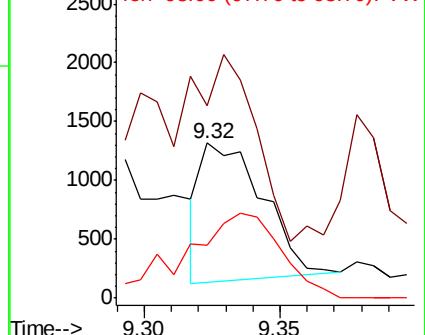
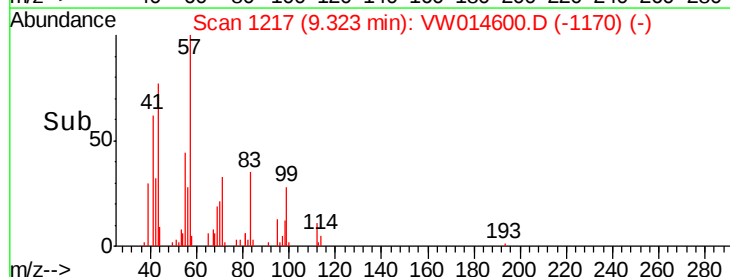
98 41.4 38.8 58.2

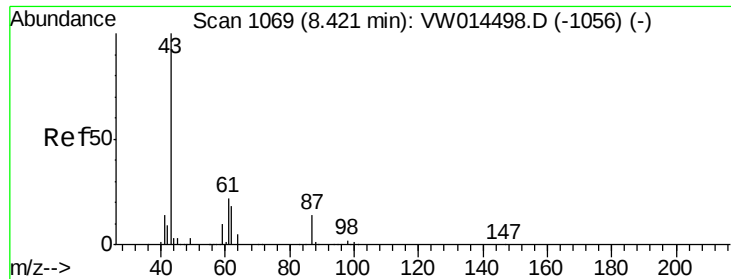


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#43

Isopropyl Acetate

Concen: 2.987 ug/l

RT: 8.41 min Scan# 1068

Delta R.T. -0.01 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Instrument :

MSVOA_W

ClientSampleId :

RBR-200059

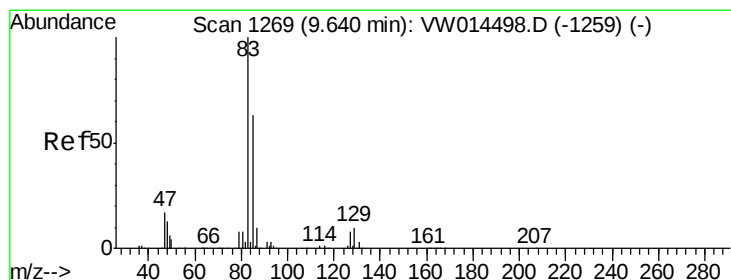
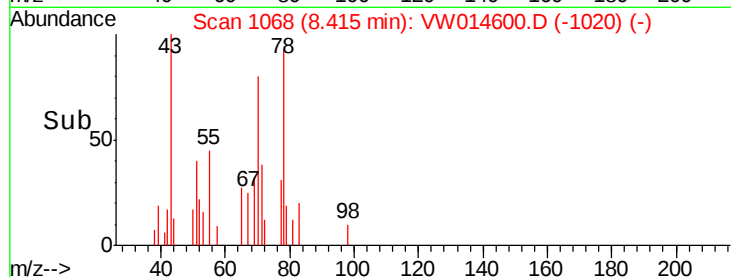
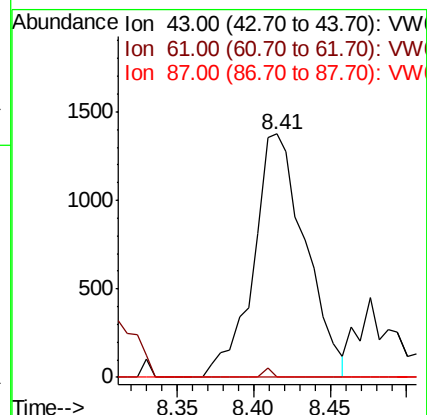
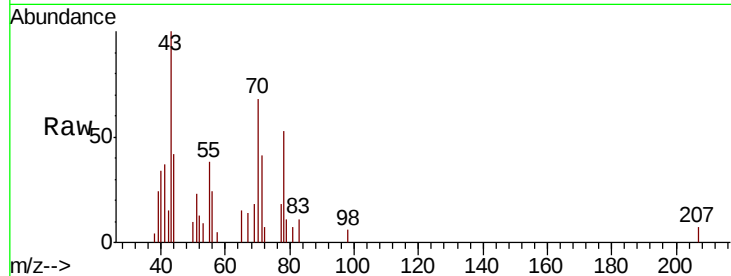
Tot Ion: 43 Resp: 3243

Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 11.1 16.7#



#47

Bromodichloromethane

Concen: 3.834 ug/l

RT: 9.62 min Scan# 1266

Delta R.T. -0.02 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

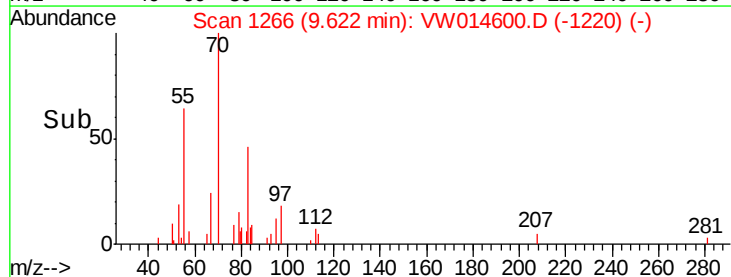
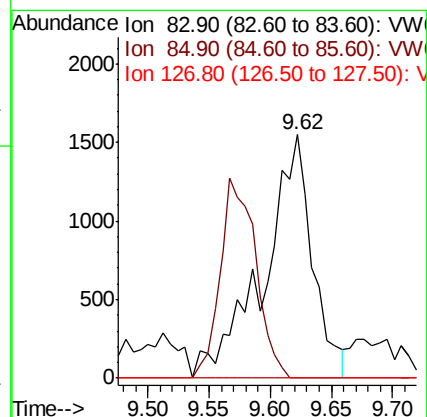
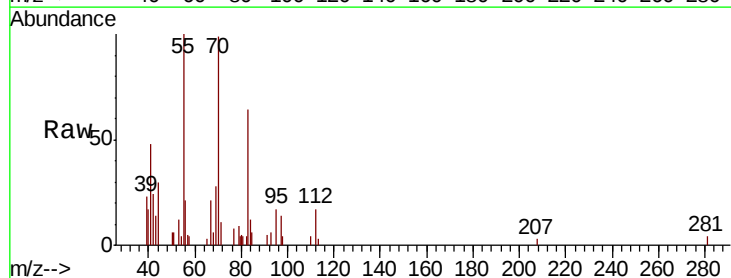
Tgt Ion: 83 Resp: 4277

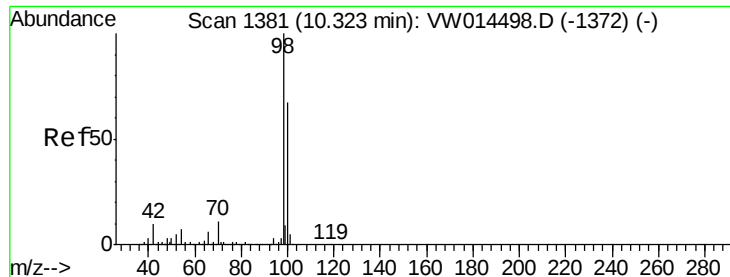
Ion Ratio Lower Upper

83 100

85 0.0 50.6 76.0#

127 0.0 6.6 9.8#





#50

Toluene-d8

Concen: 58.684 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Instrument :

MSVOA_W

ClientSampleId :

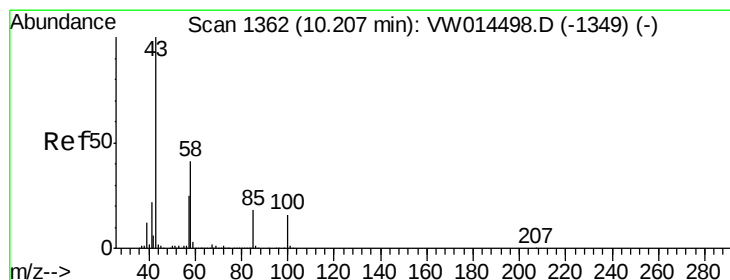
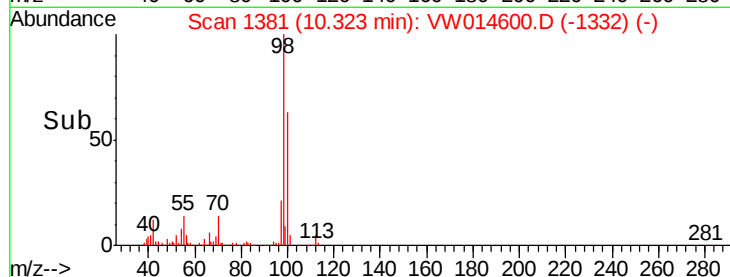
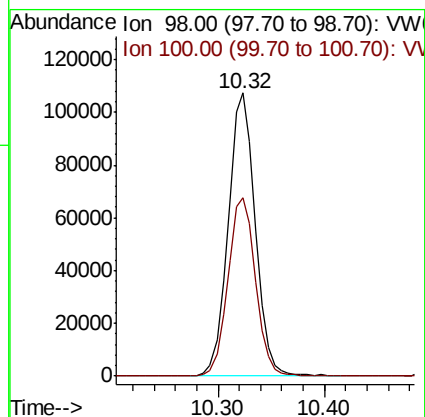
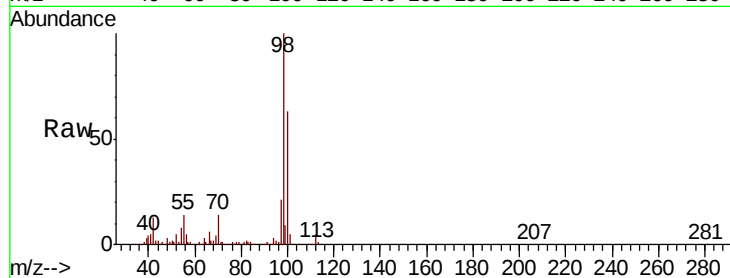
RBR-200059

Tot Ion: 98 Resp: 191406

Ion Ratio Lower Upper

98 100

100 64.0 53.8 80.6



#51

4-Methyl-2-Pentanone

Concen: 7.103 ug/l

RT: 10.32 min Scan# 1380

Delta R.T. 0.11 min

Lab File: VW014600.D

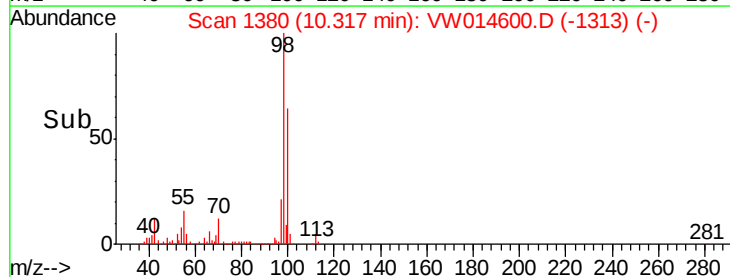
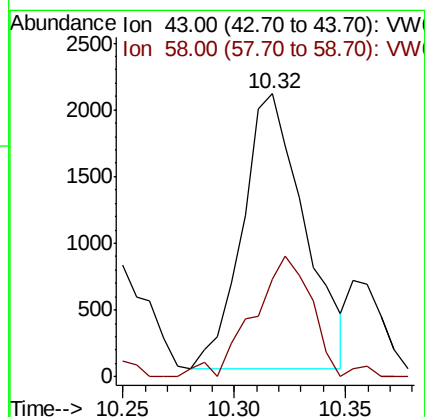
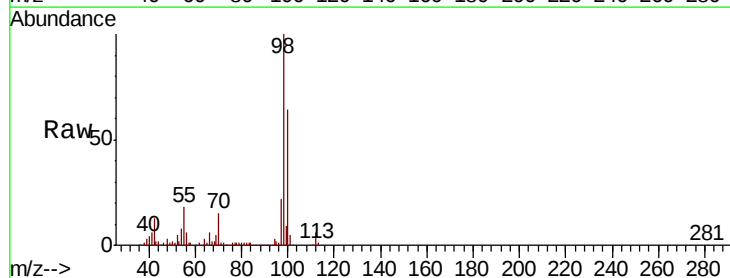
Acq: 10 Jan 2020 15:32

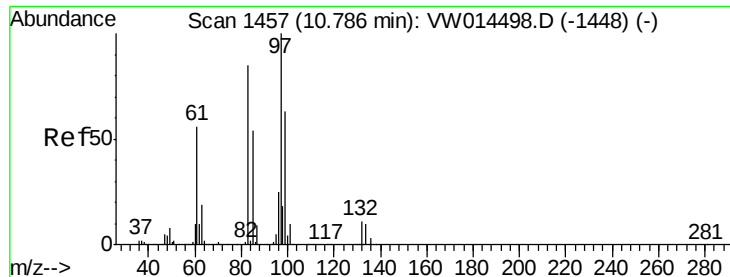
Tgt Ion: 43 Resp: 4005

Ion Ratio Lower Upper

43 100

58 42.0 32.7 49.1





#55

1,1,2-Trichloroethane

Concen: 25.529 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Instrument :

MSVOA_W

ClientSampleId :

RBR-200059

Tot Ion: 97 Resp: 16848

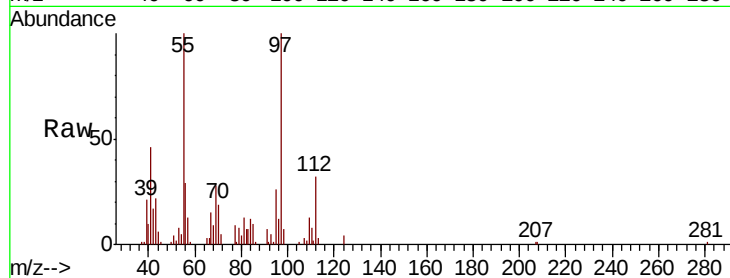
Ion Ratio Lower Upper

97 100

83 5.5 68.2 102.4#

85 10.2 43.0 64.4#

99 0.0 50.1 75.1#

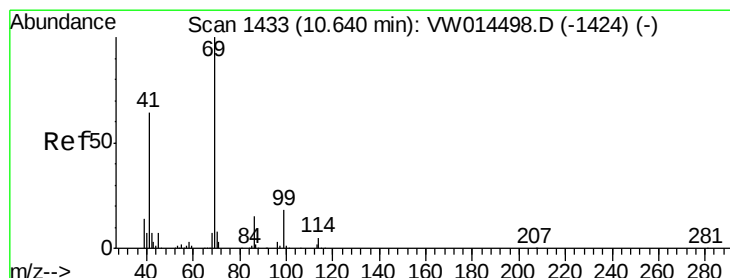
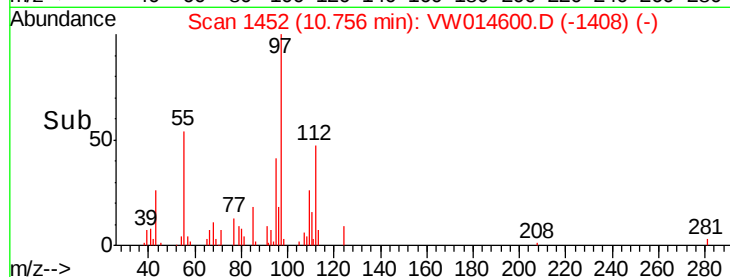
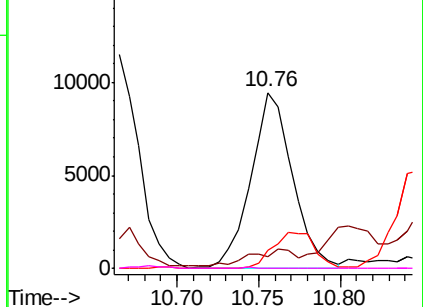


Abundance Ion 96.90 (96.60 to 97.60): VW

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



#56

Ethyl methacrylate

Concen: 7.611 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

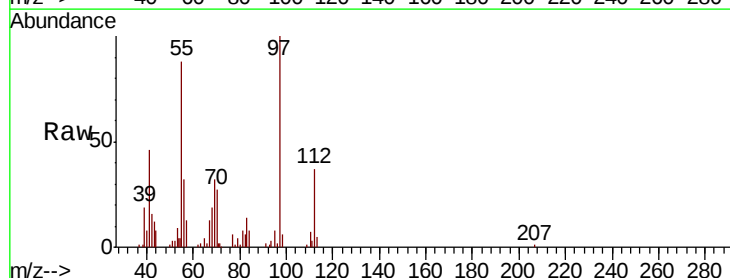
Tgt Ion: 69 Resp: 6528

Ion Ratio Lower Upper

69 100

41 135.7 51.3 76.9#

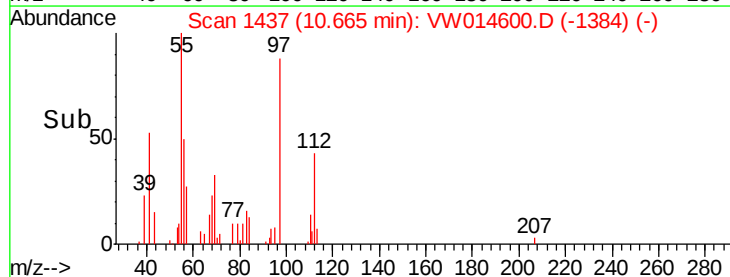
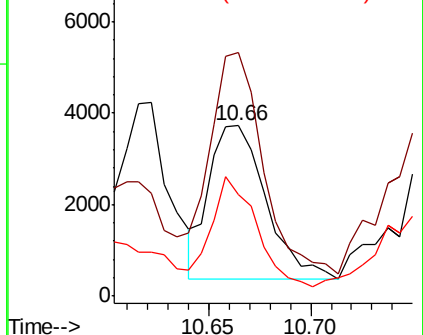
39 55.7 21.0 31.6#

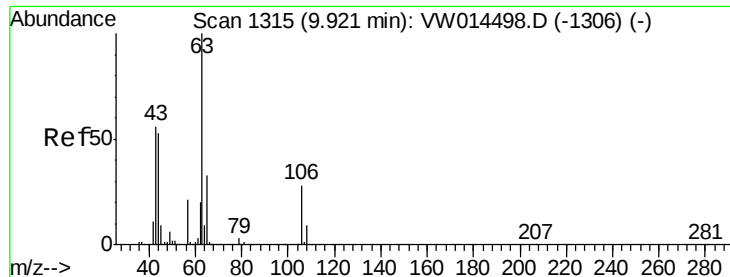


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

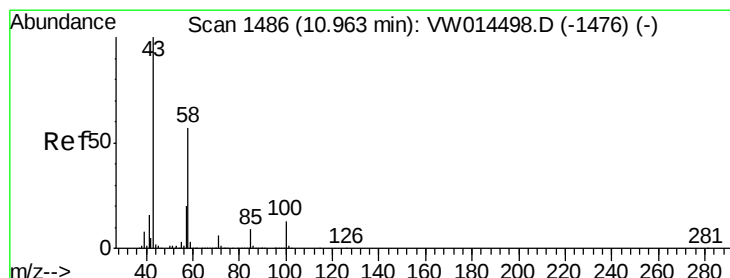
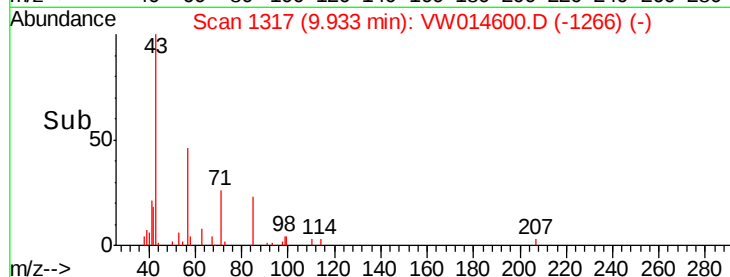
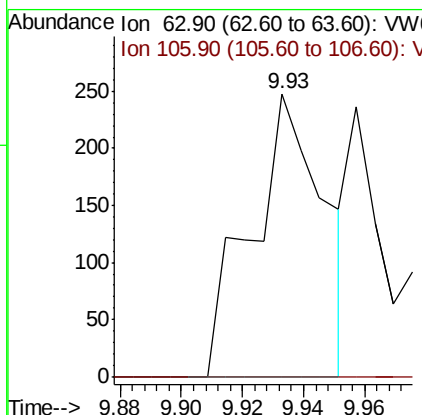
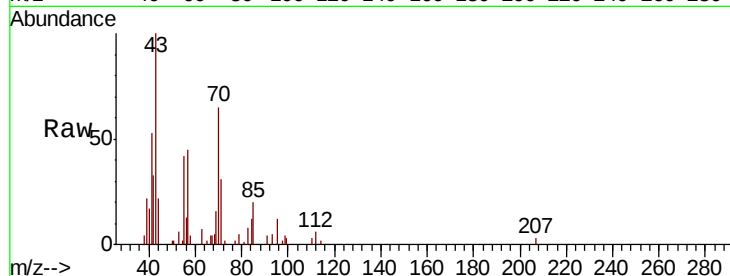




#58
2-Chloroethyl Vinyl ether
Concen: 1.556 ug/l
RT: 9.93 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VW014600.D
Acq: 10 Jan 2020 15:32

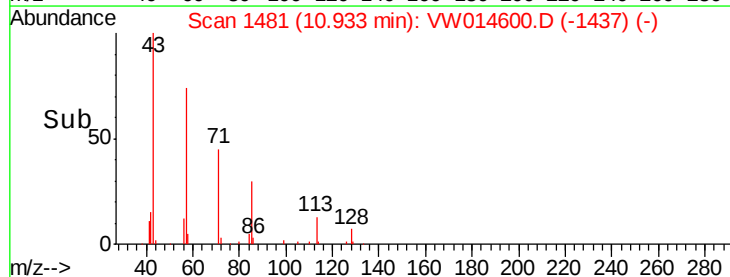
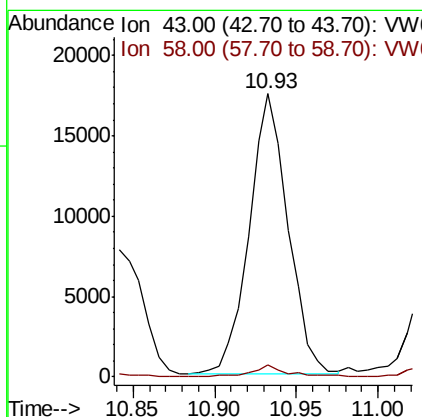
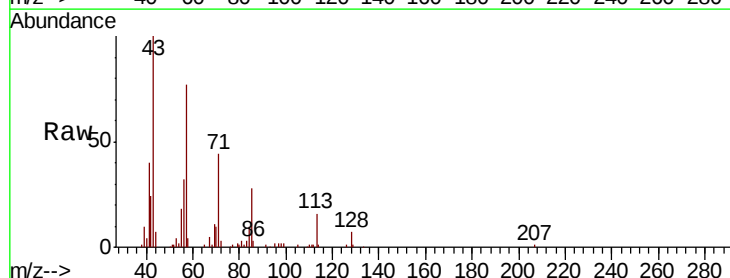
Instrument :
MSVOA_W
ClientSampleId :
RBR-200059

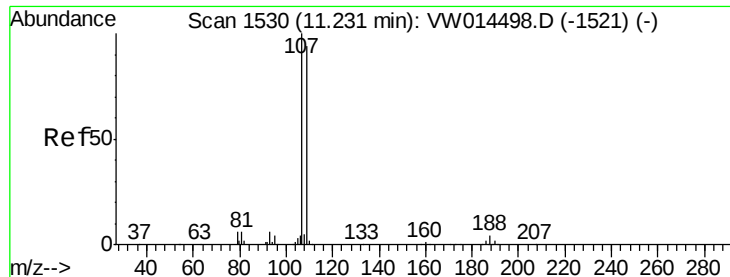
Tot Ion: 63 Resp: 406
Ion Ratio Lower Upper
63 100
106 0.0 23.0 34.6#



#59
2-Hexanone
Concen: 74.713 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.03 min
Lab File: VW014600.D
Acq: 10 Jan 2020 15:32

Tgt Ion: 43 Resp: 29028
Ion Ratio Lower Upper
43 100
58 3.9 28.7 86.3#

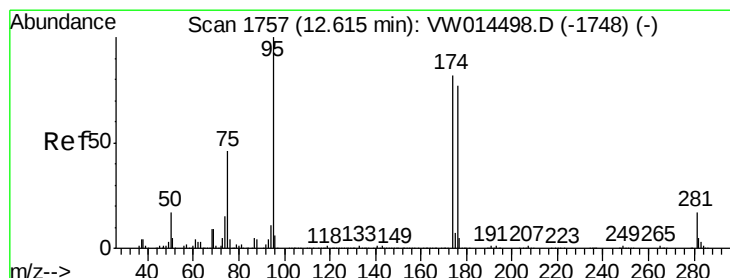
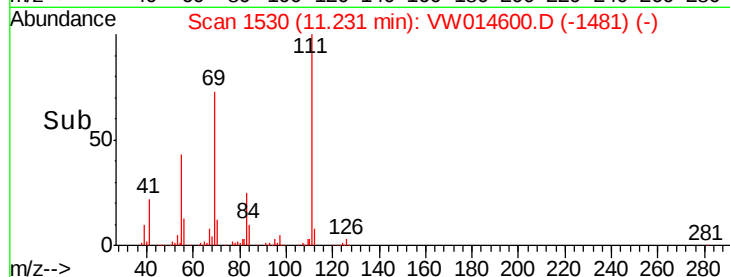
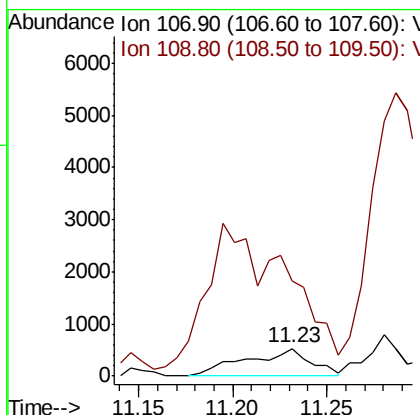
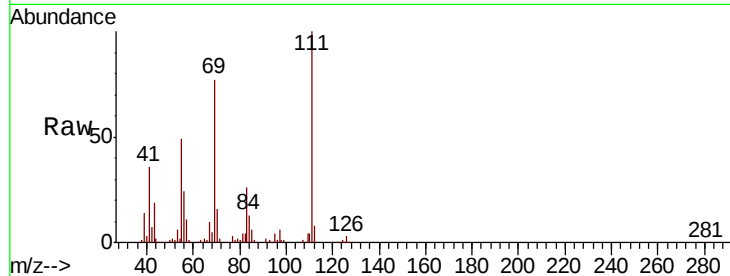




#61
 1,2-Dibromoethane
 Concen: 2.027 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

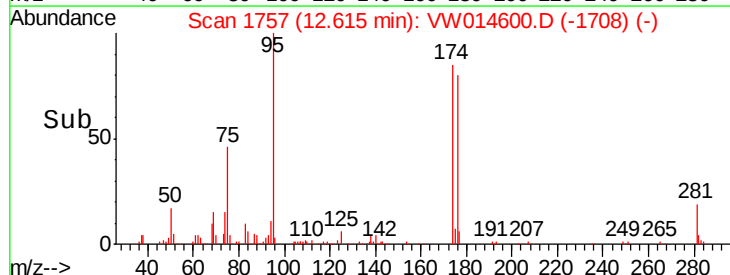
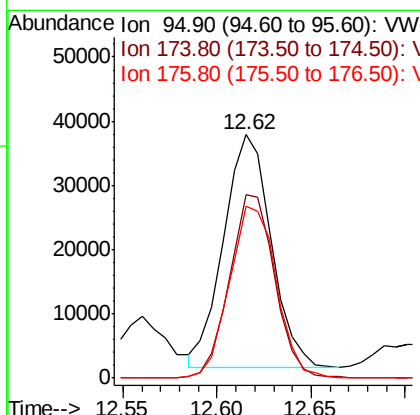
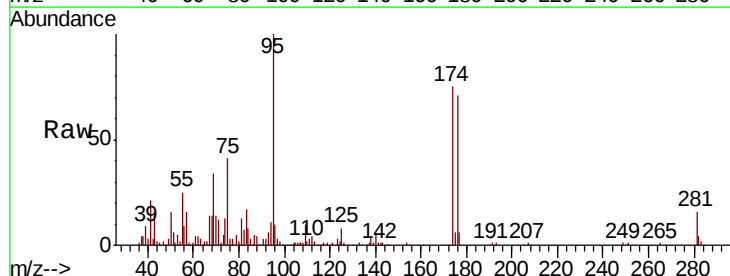
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200059

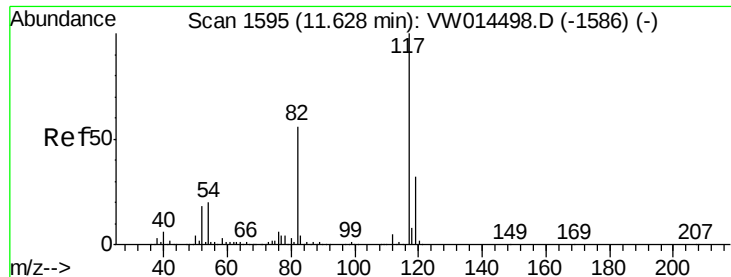
Tot Ion: 107 Resp: 1270
 Ion Ratio Lower Upper
 107 100
 109 0.0 75.1 112.7#



#62
 4-Bromofluorobenzene
 Concen: 57.104 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

Tgt Ion: 95 Resp: 63175
 Ion Ratio Lower Upper
 95 100
 174 75.5 0.0 168.6
 176 73.2 0.0 162.0

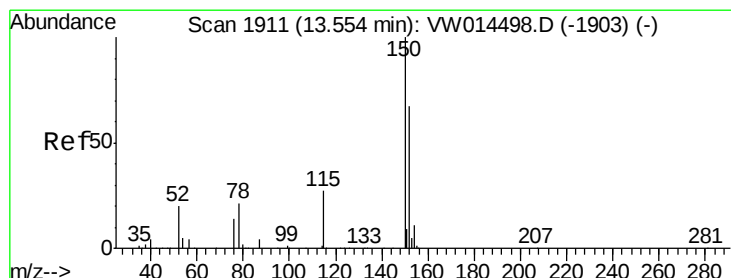
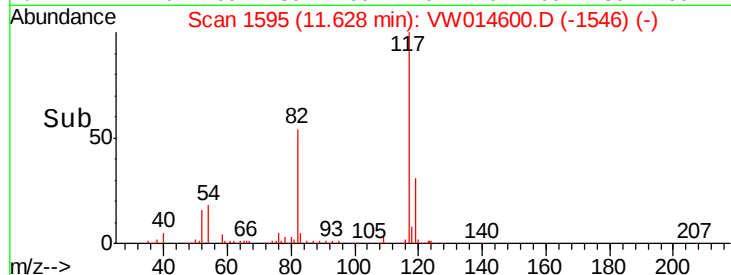
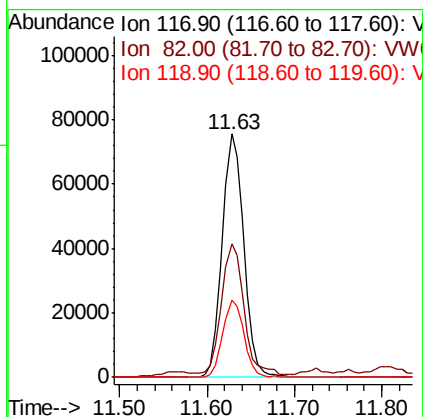
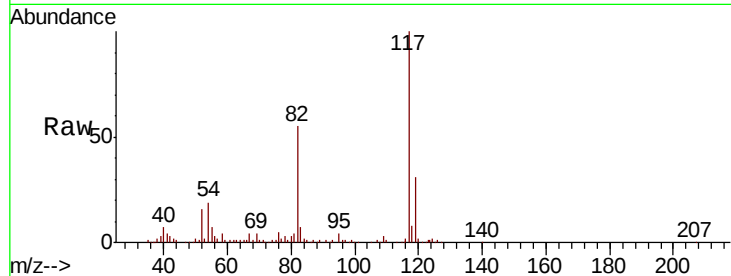




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW014600.D
Acq: 10 Jan 2020 15:32

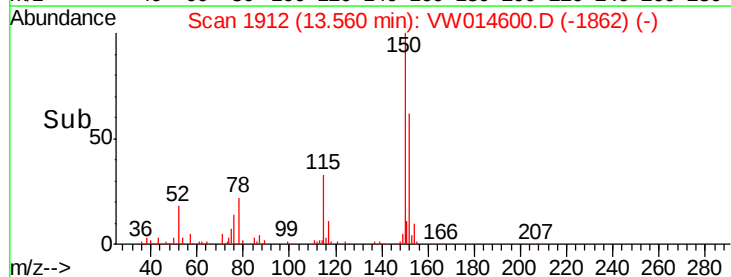
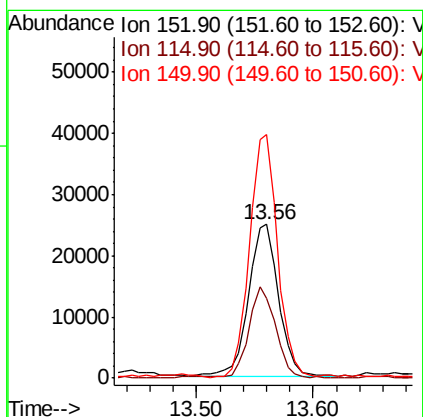
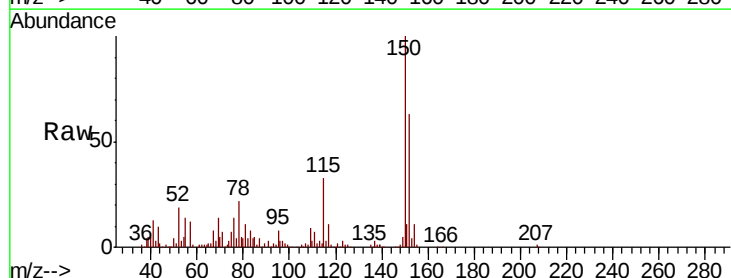
Instrument :
MSVOA_W
ClientSampleId :
RBR-200059

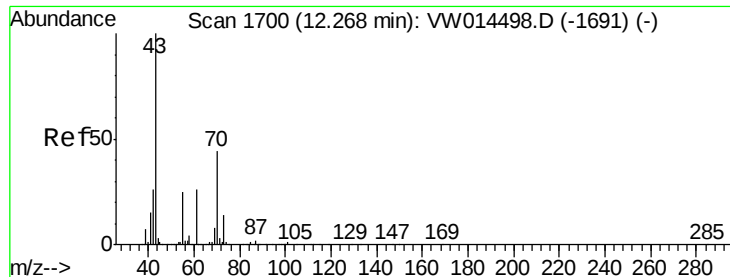
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	44.6	67.0
119	31.5	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.01 min
Lab File: VW014600.D
Acq: 10 Jan 2020 15:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.6	27.7	83.1
150	149.0	0.0	343.4





#74

N-amvl acetate

Concen: 41.826 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

Instrument :

MSVOA_W

ClientSampleId :

RBR-200059

Tot Ion: 43 Resp: 30655

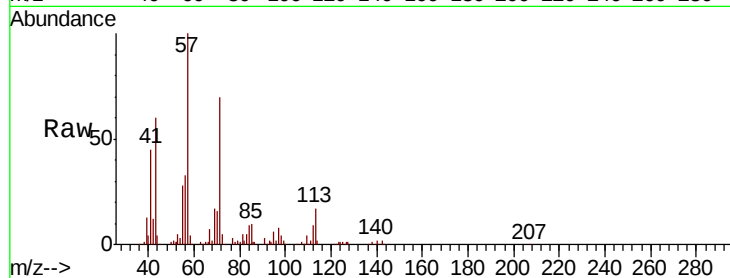
Ion Ratio Lower Upper

43 100

70 18.4 36.5 54.7#

55 0.0 20.9 31.3#

61 0.1 20.7 31.1#

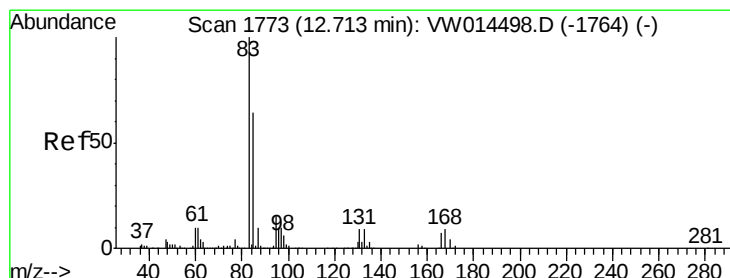
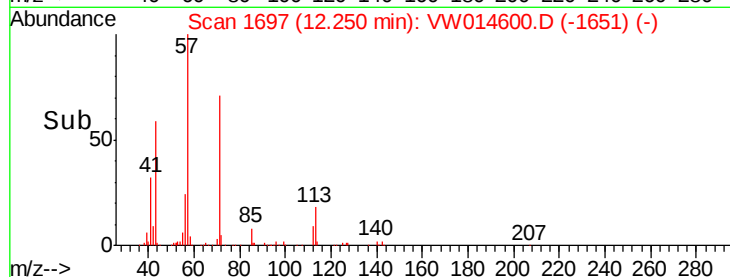
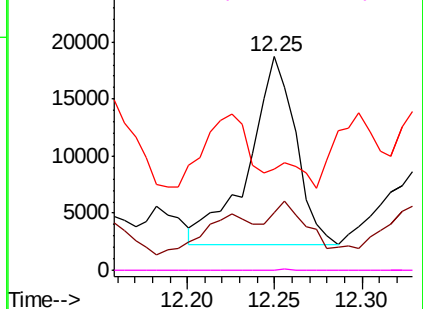


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 9.639 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.02 min

Lab File: VW014600.D

Acq: 10 Jan 2020 15:32

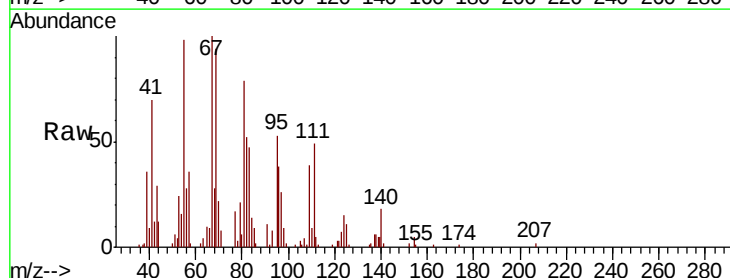
Tgt Ion: 83 Resp: 5687

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

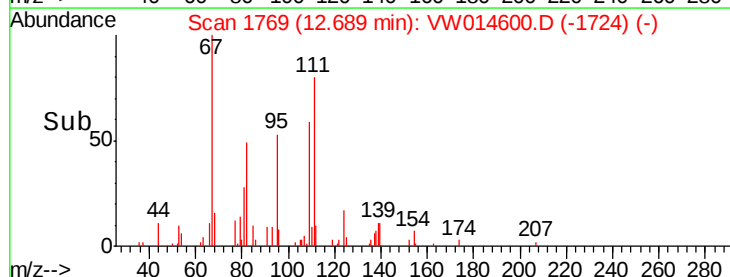
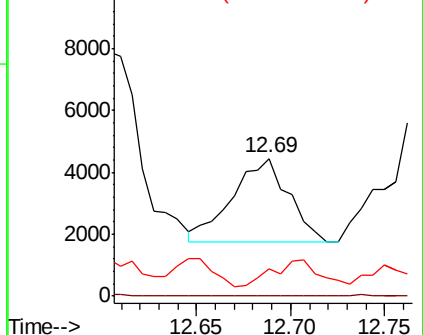
85 26.2 31.9 95.7#

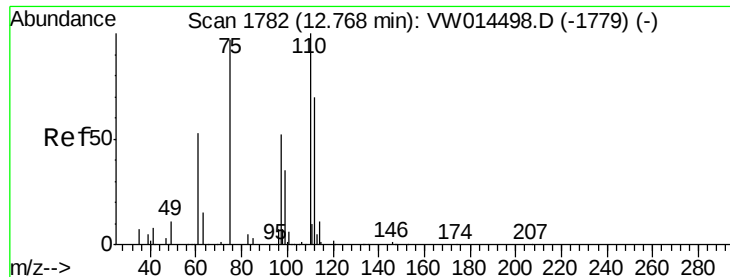


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

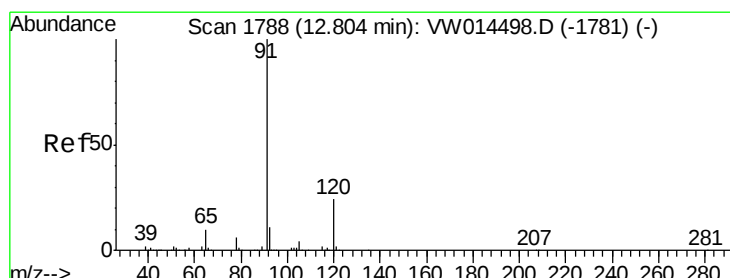
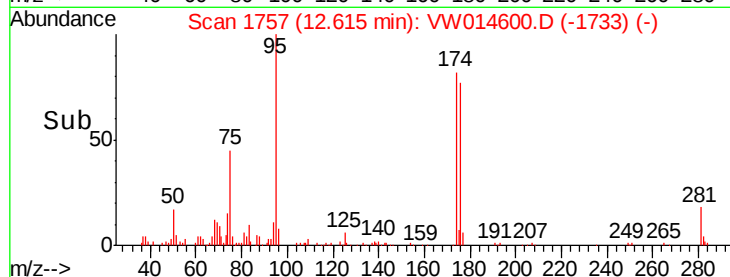
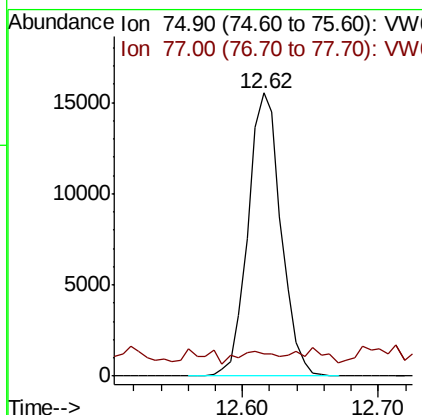
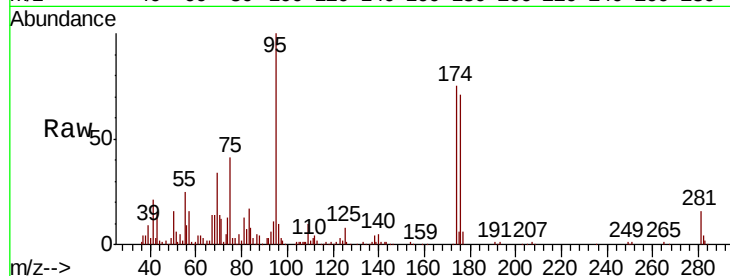




#76
 1,2,3-Trichloropropane
 Concen: 62.722 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

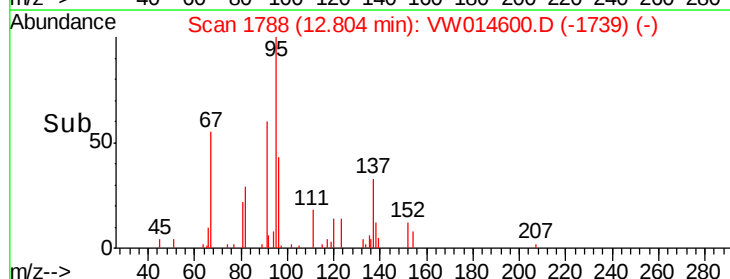
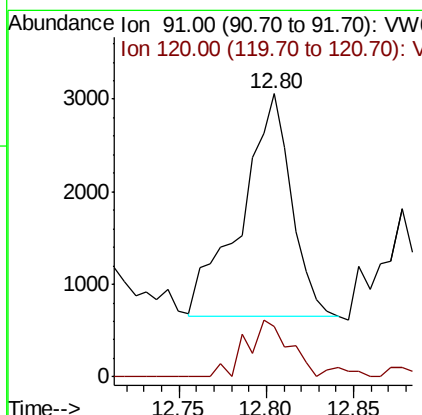
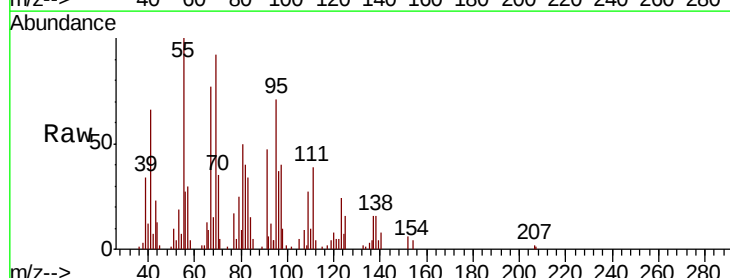
Instrument :
 MSVOA_W
 ClientSampled :
 RBR-200059

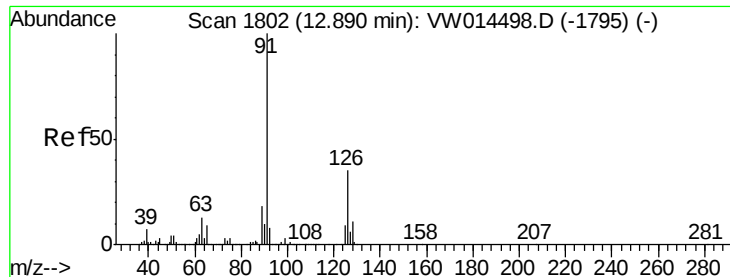
Tot Ion: 75 Resp: 26418
 Ion Ratio Lower Upper
 75 100
 77 5.1 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.239 ug/l
 RT: 12.80 min Scan# 1788
 Delta R.T. 0.00 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

Tgt Ion: 91 Resp: 4763
 Ion Ratio Lower Upper
 91 100
 120 21.6 11.7 35.1

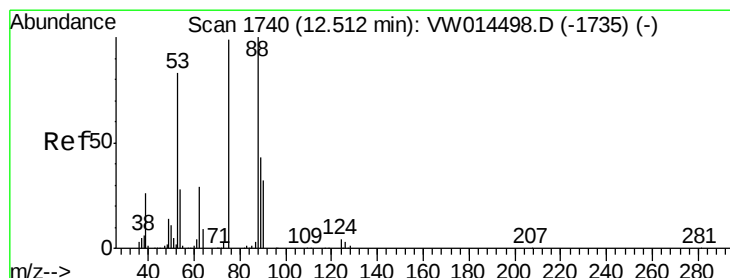
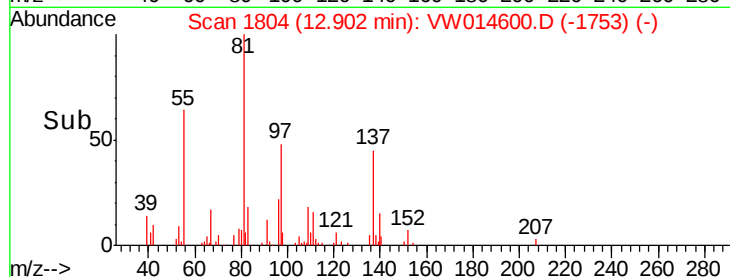
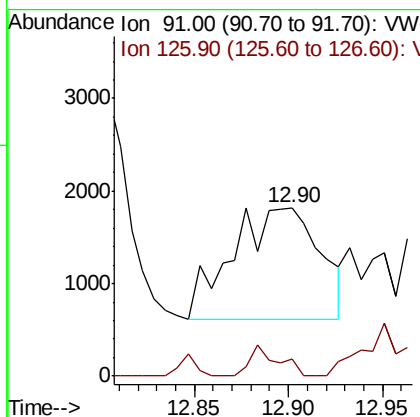
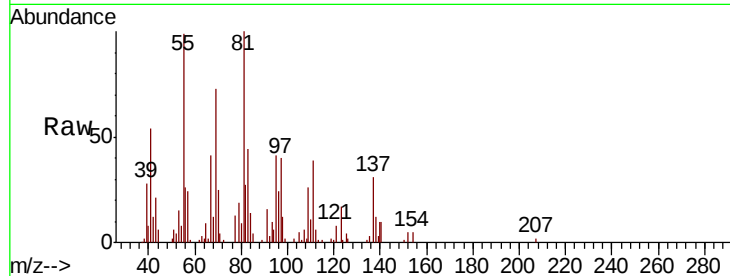




#79
 2-Chlorotoluene
 Concen: 1.787 ug/l
 RT: 12.90 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

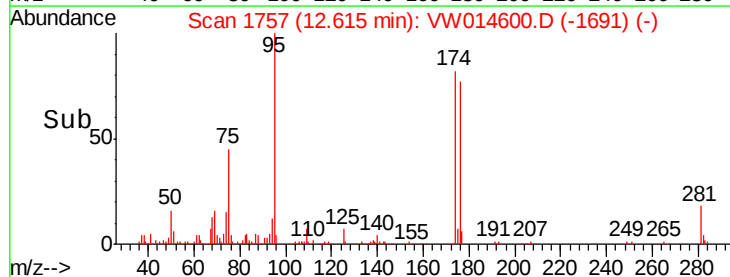
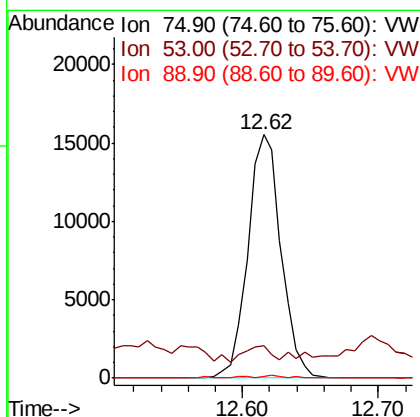
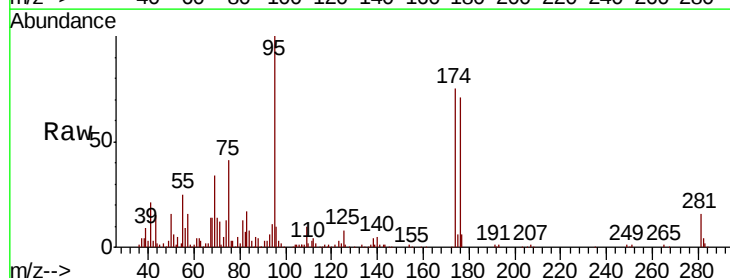
Instrument :
 MSVOA_W
 ClientSampled :
 RBR-200059

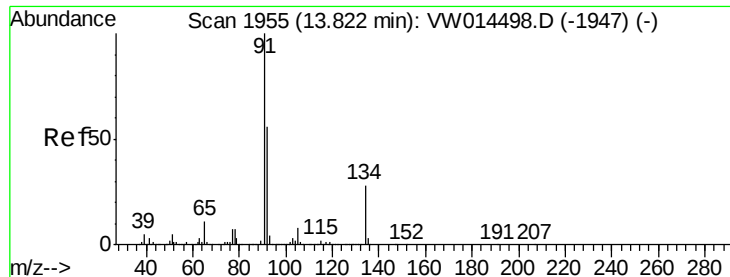
Tot Ion: 91 Resp: 3908
 Ion Ratio Lower Upper
 91 100
 126 8.8 17.1 51.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.746 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

Tgt Ion: 75 Resp: 26418
 Ion Ratio Lower Upper
 75 100
 53 5.4 70.9 106.3#
 89 0.6 35.8 53.8#

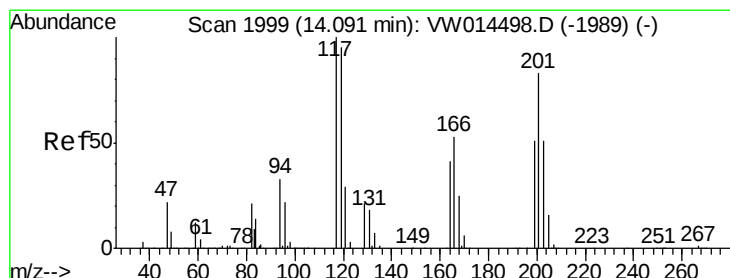
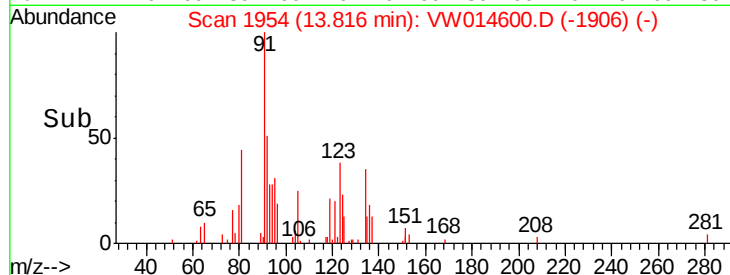
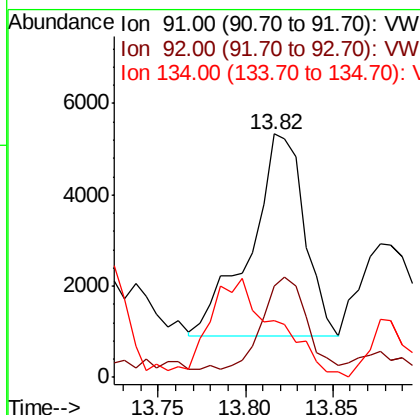
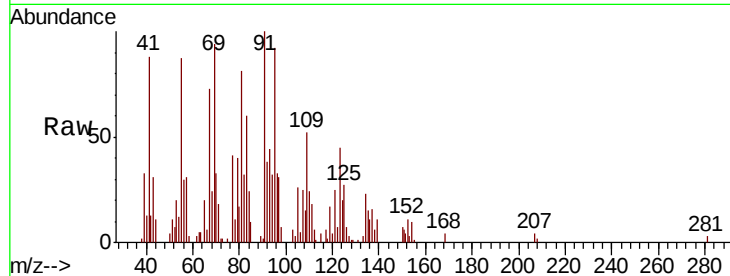




#89
n-Butylbenzene
Concen: 3.394 ug/l
RT: 13.82 min Scan# 1954
Delta R.T. -0.01 min
Lab File: VW014600.D
Acq: 10 Jan 2020 15:32

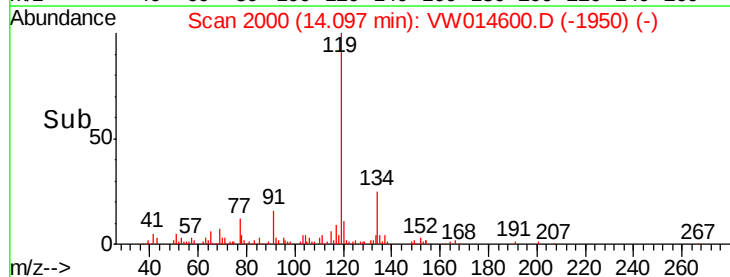
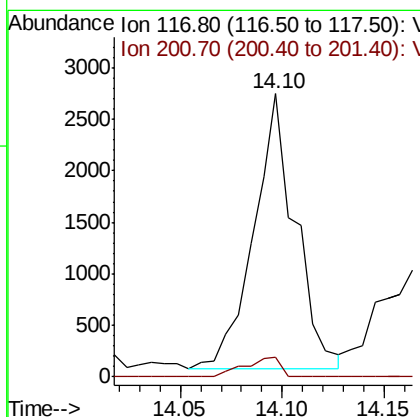
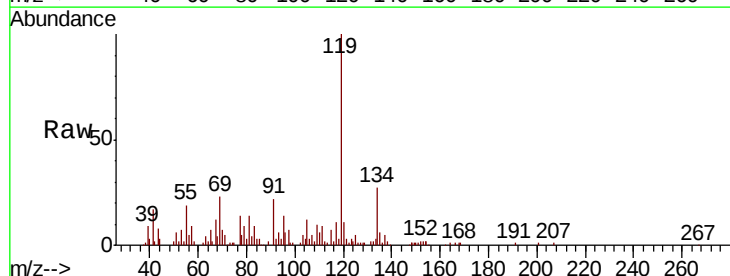
Instrument :
MSVOA_W
ClientSampled :
RBR-200059

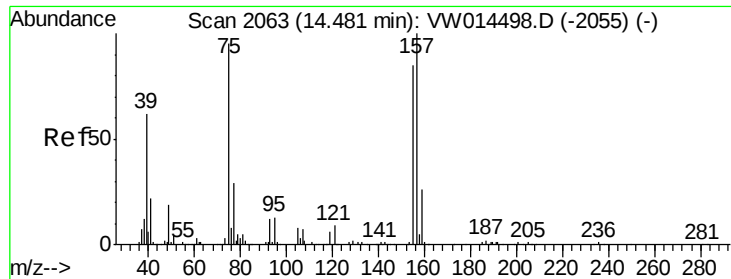
Tot Ion: 91 Resp: 9556
Ion Ratio Lower Upper
91 100
92 35.9 27.5 82.5
134 0.0 13.7 41.1#



#90
Hexachloroethane
Concen: 7.081 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.01 min
Lab File: VW014600.D
Acq: 10 Jan 2020 15:32

Tgt Ion: 117 Resp: 3750
Ion Ratio Lower Upper
117 100
201 6.3 43.0 128.8#

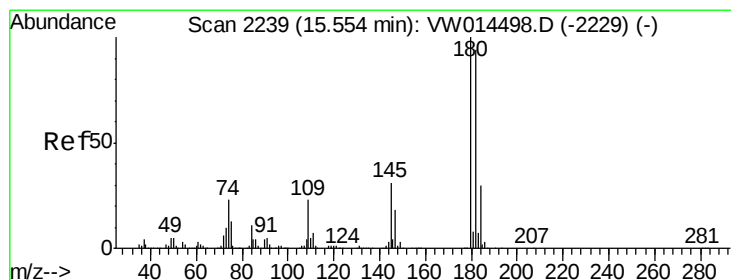
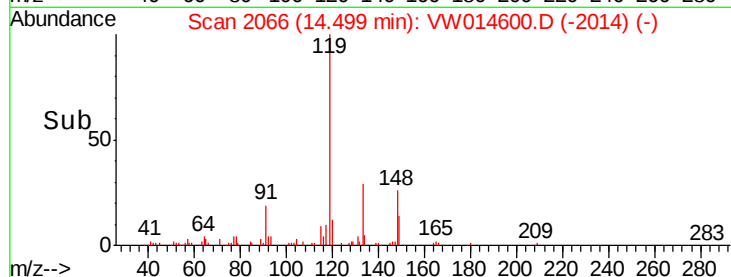
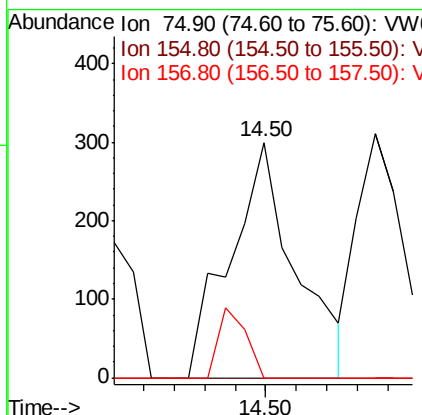
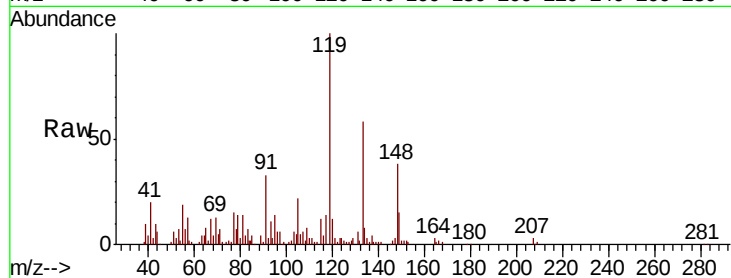




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.752 ug/l
 RT: 14.50 min Scan# 2066
 Delta R.T. 0.02 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

Instrument :
 MSVOA_W
 ClientSampled :
 RBR-200059

Tot Ion: 75 Resp: 444
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.8 137.4#
 157 12.4 58.1 174.2#



#96
 1,2,3-Trichlorobenzene
 Concen: 1.135 ug/l
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW014600.D
 Acq: 10 Jan 2020 15:32

Tgt Ion: 180 Resp: 867
 Ion Ratio Lower Upper
 180 100
 182 90.2 47.4 142.2
 145 0.0 15.5 46.5#

