

Data File : VW012356.D
Acq On : 30 Aug 2019 17:52
Operator : SY/VA
Sample : K4571-04
Misc : 6.98G/5ML/MSVOA_W/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
RBR-200028

Quant Time: Aug 31 03:05:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration

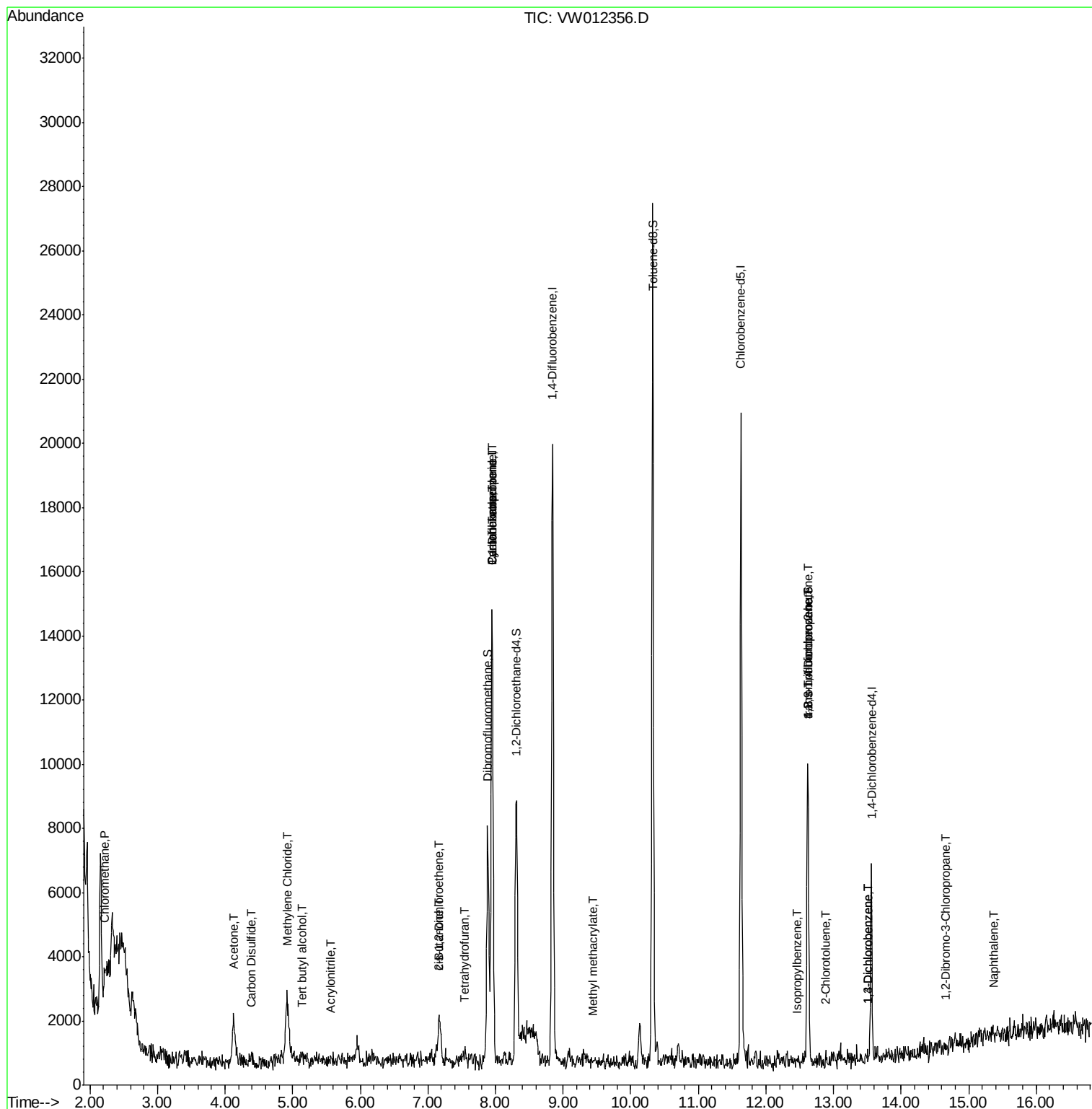
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	9959	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	15198	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	10824	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	1482	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	6801	57.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.90%	
35) Dibromofluoromethane	7.89	113	5427	59.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.64%	
50) Toluene-d8	10.32	98	17044	46.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.68%	
62) 4-Bromofluorobenzene	12.62	95	3054	23.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.10%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.21	50	212	2.231	ug/l #	43
11) Tert butyl alcohol	5.15	59	20	2.807	ug/l #	71
15) Acrylonitrile	5.57	53	61	2.221	ug/l #	17
16) Acetone	4.12	43	3448	113.936	ug/l	94
17) Carbon Disulfide	4.40	76	375	1.242	ug/l #	75
20) Methylene Chloride	4.92	84	1368	11.958	ug/l #	79
25) 2-Butanone	7.17	43	105	2.553	ug/l #	56
27) cis-1,2-Dichloroethene	7.16	96	750	6.553	ug/l	87
29) Tetrahydrofuran	7.54	42	405	16.415	ug/l #	57
31) Cyclohexane	7.95	56	393	1.843	ug/l #	29
36) 1,1-Dichloropropene	7.95	75	972	6.189	ug/l #	44
38) Carbon Tetrachloride	7.95	117	1084	7.974	ug/l #	12
48) Methyl methacrylate	9.44	41	146	1.924	ug/l #	5
73) Isopropylbenzene	12.46	105	139	1.252	ug/l #	50
76) 1,2,3-Trichloropropane	12.62	75	1687	116.880	ug/l #	100
79) 2-Chlorotoluene	12.89	91	107	1.390	ug/l #	43
81) trans-1,4-Dichloro-2-buten	12.62	75	1687	256.263	ug/l #	6
87) 1,3-Dichlorobenzene	13.51	146	52	1.107	ug/l #	24
88) 1,4-Dichlorobenzene	13.51	146	52	1.114	ug/l #	25
92) 1,2-Dibromo-3-Chloropropan	14.66	75	36	10.489	ug/l #	5
95) Naphthalene	15.37	128	94	5.857	ug/l #	69

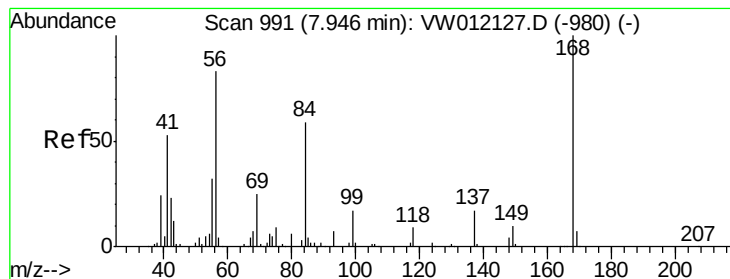
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012356.D

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Instrument :

MSVOA_W

ClientSampleId :

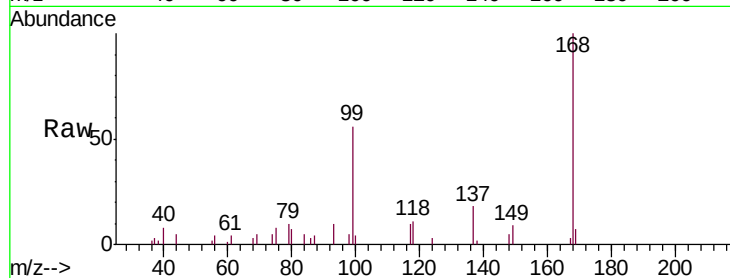
RBR-200028

Tgt Ion: 168 Resp: 9959

Ion Ratio Lower Upper

168 100

99 55.8 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

4000

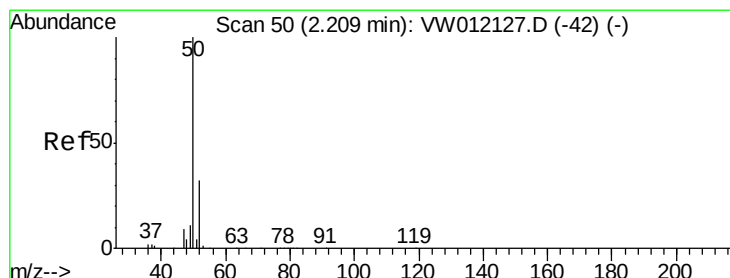
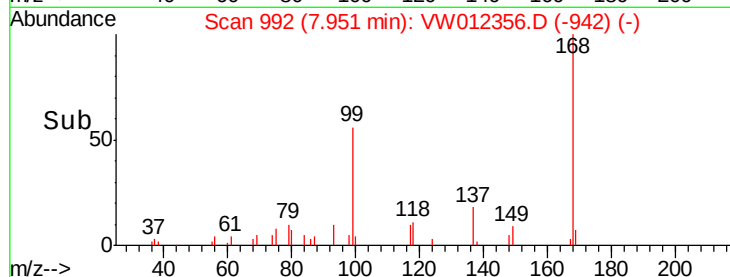
3000

2000

1000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: 2.231 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW012356.D

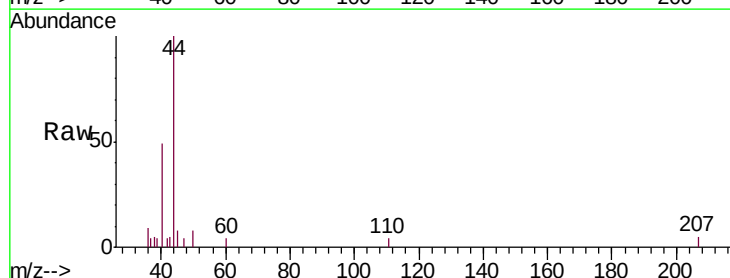
Acq: 30 Aug 2019 17:52

Tgt Ion: 50 Resp: 212

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

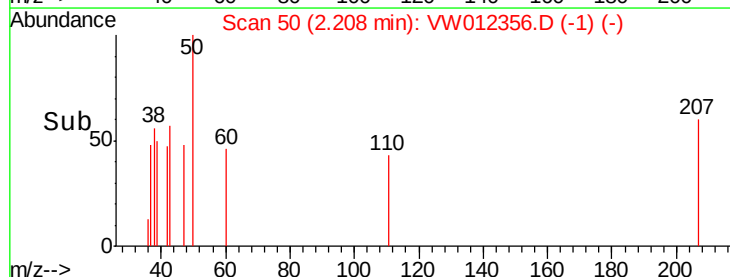
150

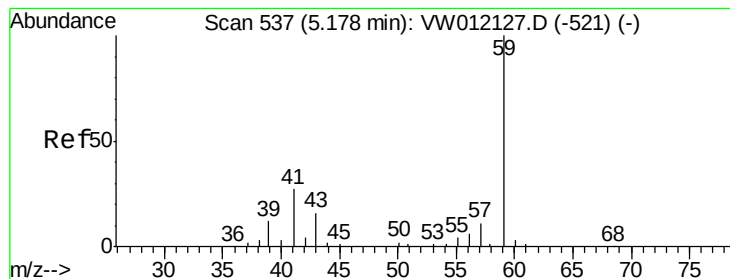
100

50

0

Time--> 2.16 2.18 2.20 2.22 2.24





#11

Tert butyl alcohol

Concen: 2.807 ug/l

RT: 5.15 min Scan# 532

Delta R.T. -0.03 min

Lab File: VW012356.D

Acq: 30 Aug 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

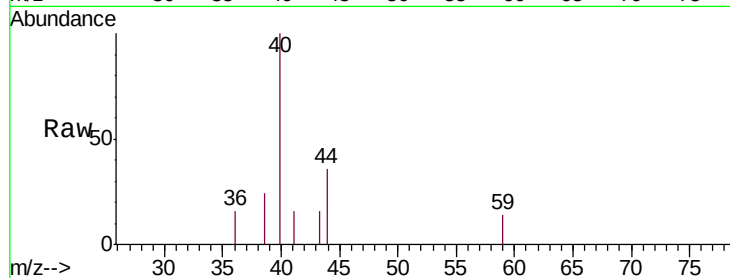
RBR-200028

Tgt Ion: 59 Resp: 20

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#

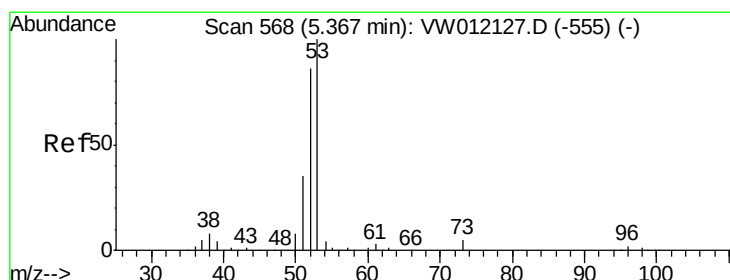
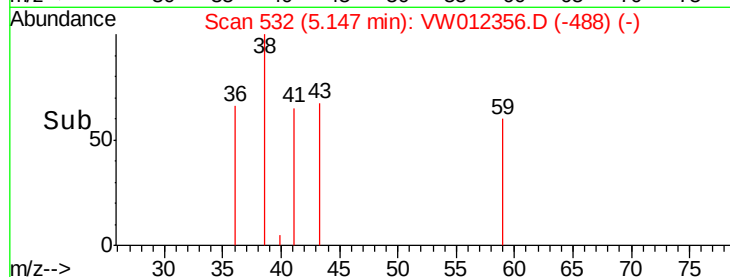


Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.15

Time-->



#15

Acrylonitrile

Concen: 2.221 ug/l

RT: 5.57 min Scan# 602

Delta R.T. 0.21 min

Lab File: VW012356.D

Acq: 30 Aug 2019 17:52

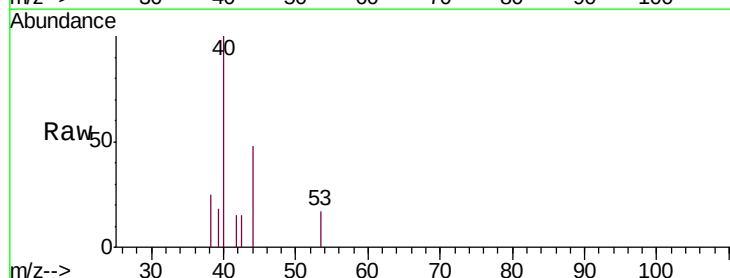
Tgt Ion: 53 Resp: 61

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 0.0 30.1 45.1#



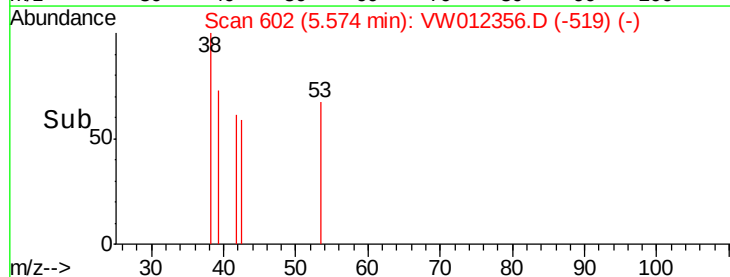
Abundance Ion 53.00 (52.70 to 53.70): VW

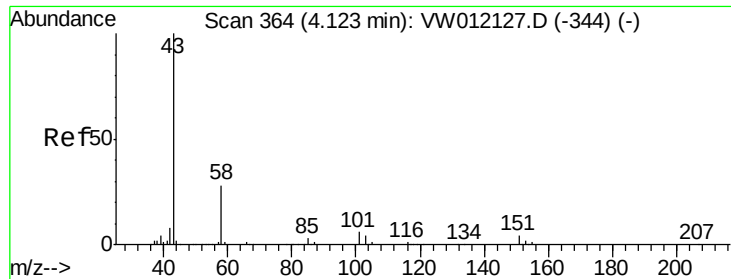
Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW

5.57

Time-->





#16

Acetone

Concen: 113.936 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW012356.D

Acq: 30 Aug 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

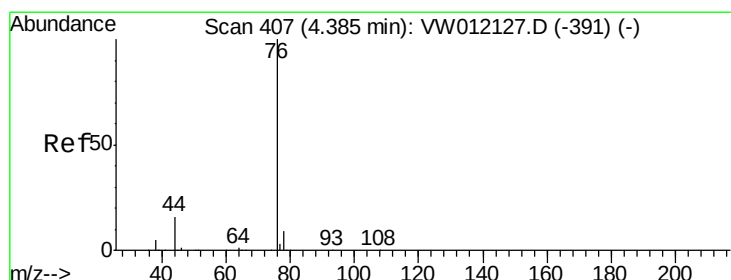
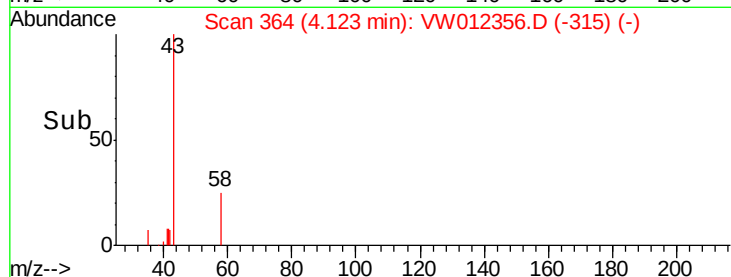
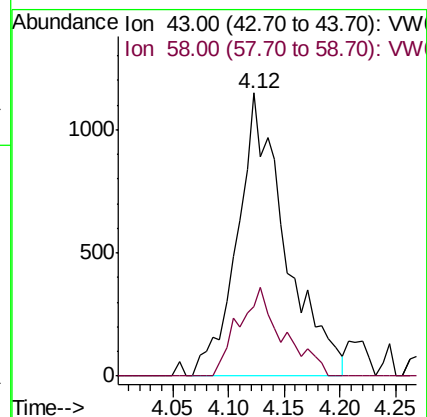
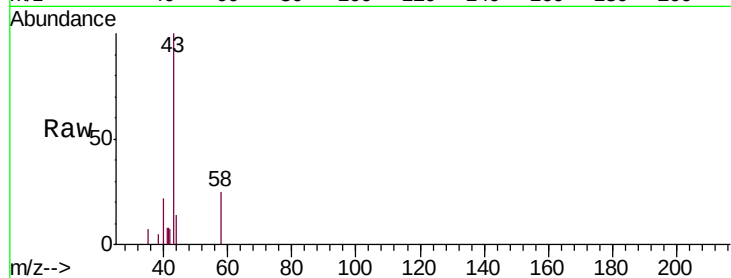
RBR-200028

Tgt Ion: 43 Resp: 3448

Ion Ratio Lower Upper

43 100

58 24.8 22.4 33.6



#17

Carbon Disulfide

Concen: 1.242 ug/l

RT: 4.40 min Scan# 409

Delta R.T. 0.01 min

Lab File: VW012356.D

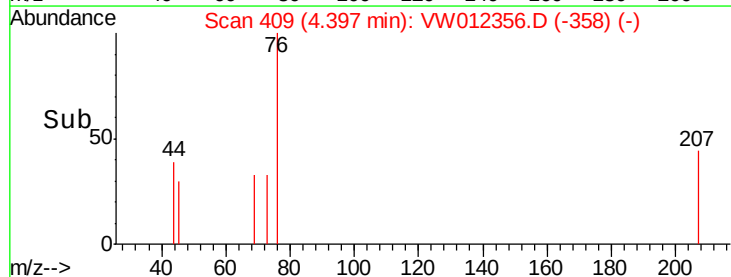
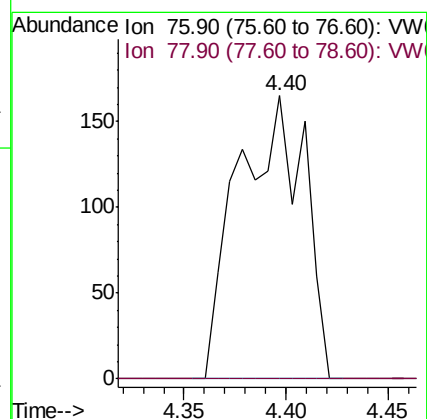
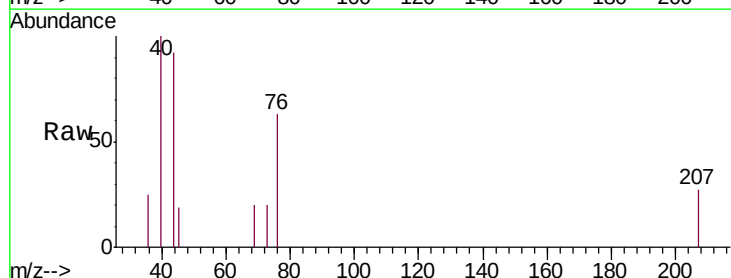
Acq: 30 Aug 2019 17:52

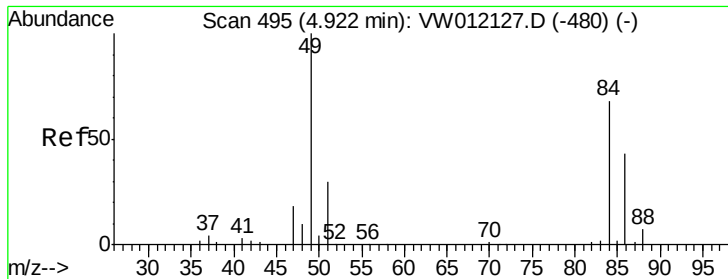
Tgt Ion: 76 Resp: 375

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

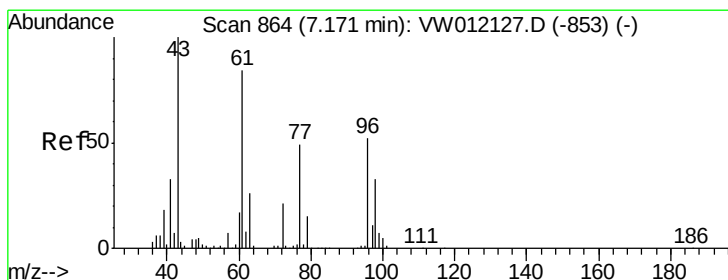
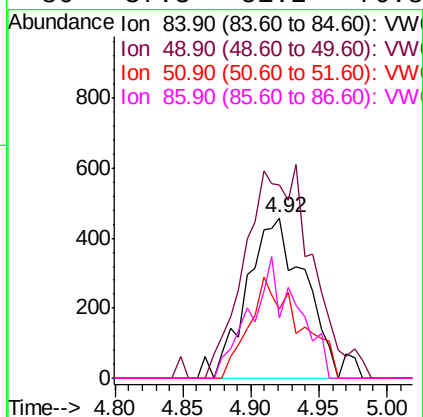
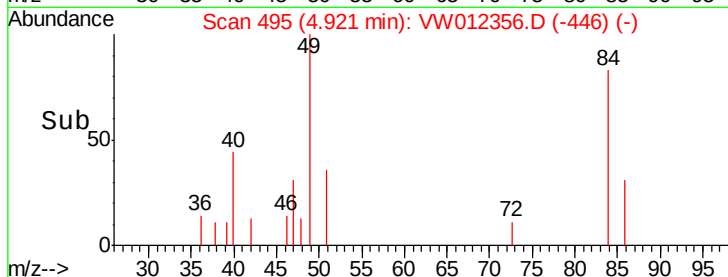
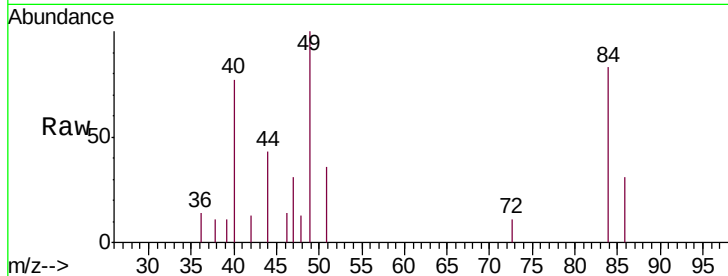




#20
Methylene Chloride
Concen: 11.958 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

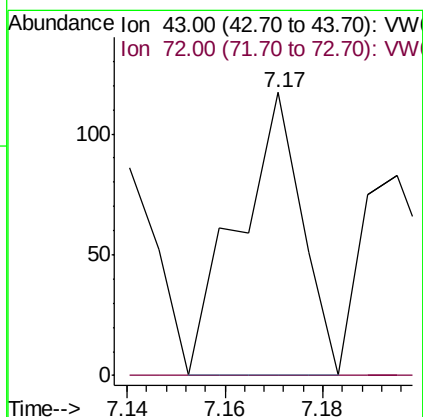
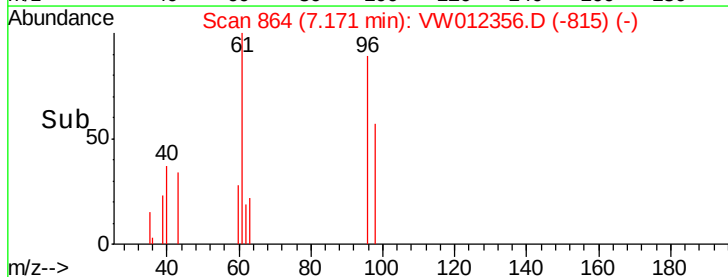
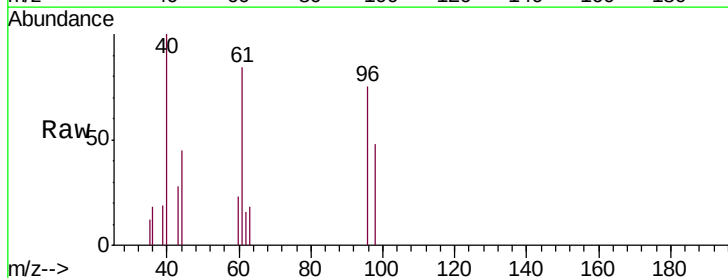
Instrument :
MSVOA_W
ClientSampleId :
RBR-200028

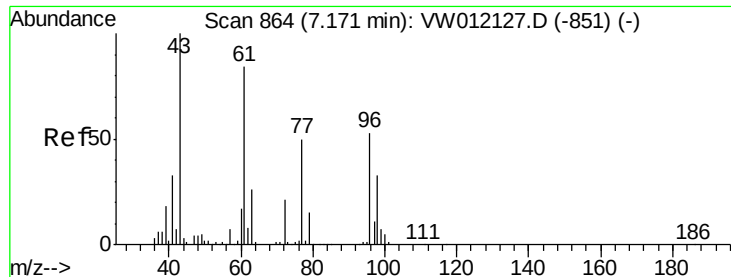
Tgt Ion: 84 Resp: 1368
Ion Ratio Lower Upper
84 100
49 120.3 117.8 176.8
51 43.0 35.6 53.4
86 37.3 51.2 76.8#



#25
2-Butanone
Concen: 2.553 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

Tgt Ion: 43 Resp: 105
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#



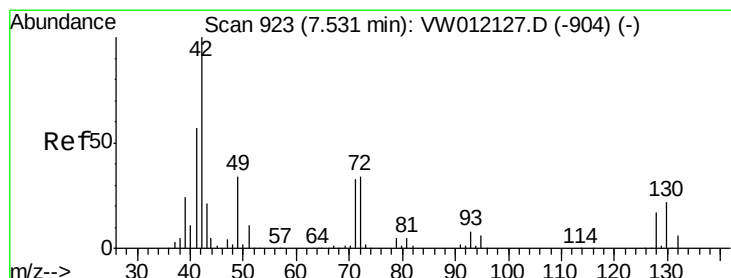
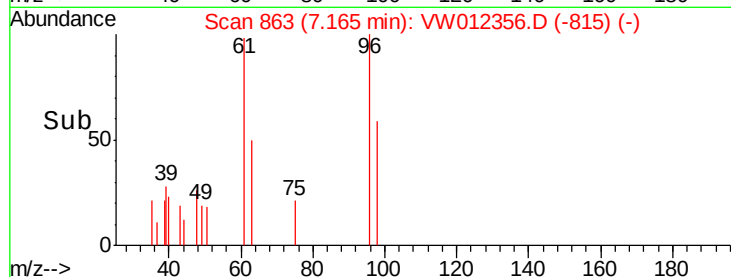
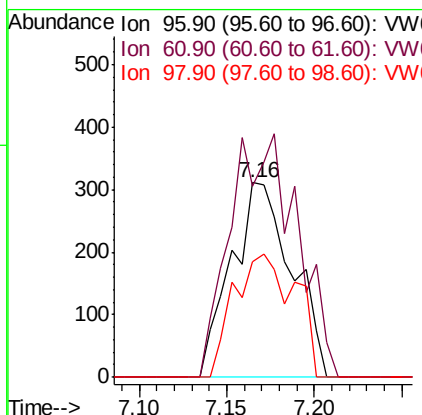
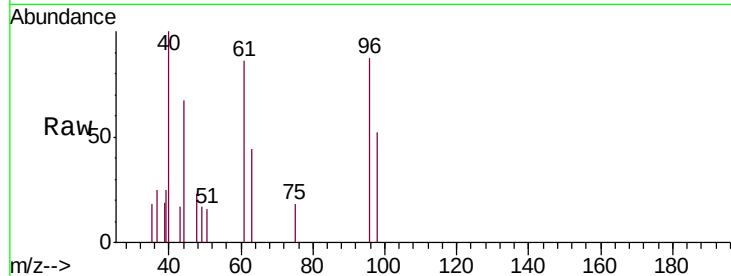


#27

cis-1,2-Dichloroethene
Concen: 6.553 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

Instrument :
MSVOA_W
ClientSampleId :
RBR-200028

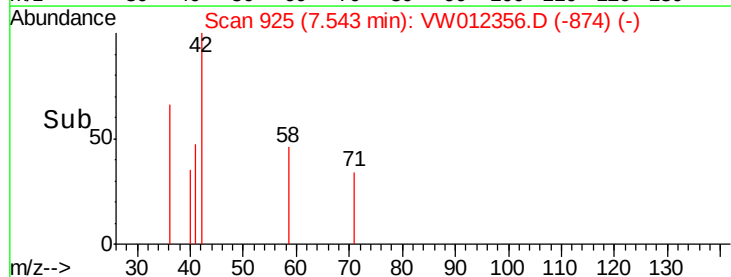
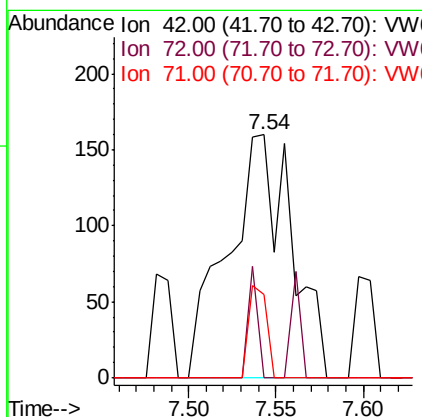
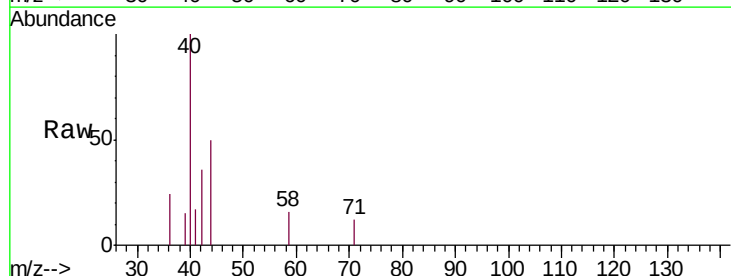
Tgt Ion: 96 Resp: 750
Ion Ratio Lower Upper
96 100
61 138.4 0.0 326.6
98 63.7 0.0 127.4

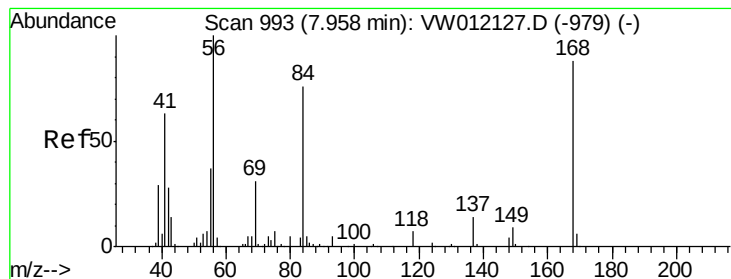


#29

Tetrahydrofuran
Concen: 16.415 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

Tgt Ion: 42 Resp: 405
Ion Ratio Lower Upper
42 100
72 6.7 27.3 40.9#
71 10.4 25.5 38.3#





#31

Cyclohexane

Concen: 1.843 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012356.D

Acq: 30 Aug 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

RBR-200028

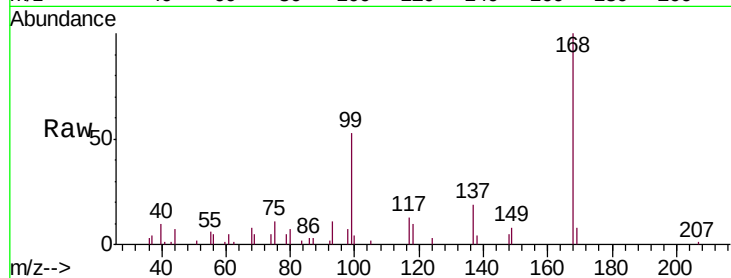
Tgt Ion: 56 Resp: 393

Ion Ratio Lower Upper

56 100

69 100.0 24.9 37.3#

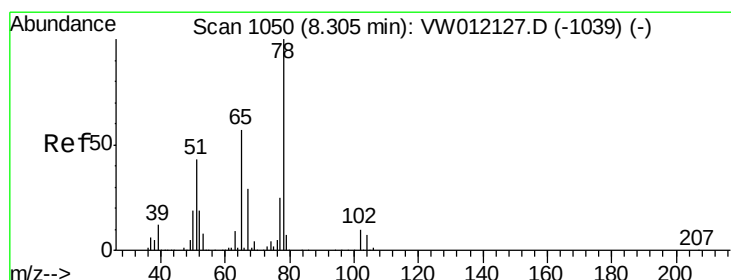
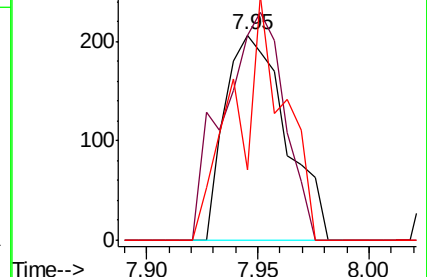
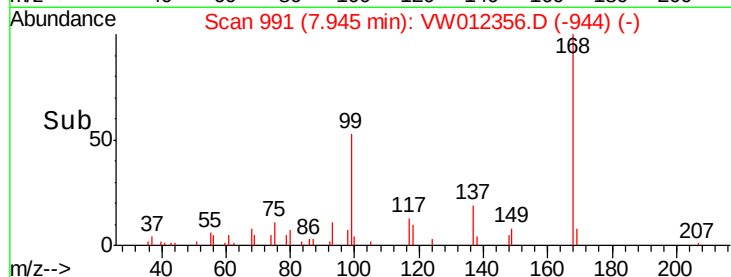
84 34.5 60.6 90.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 57.447 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012356.D

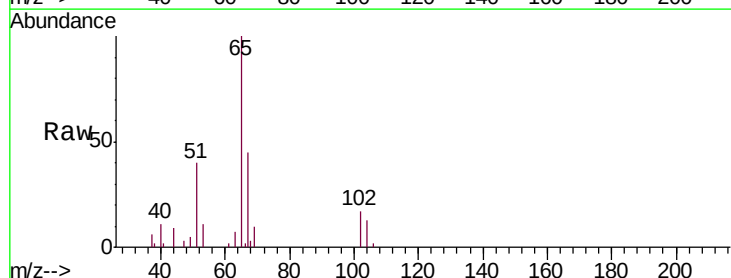
Acq: 30 Aug 2019 17:52

Tgt Ion: 65 Resp: 6801

Ion Ratio Lower Upper

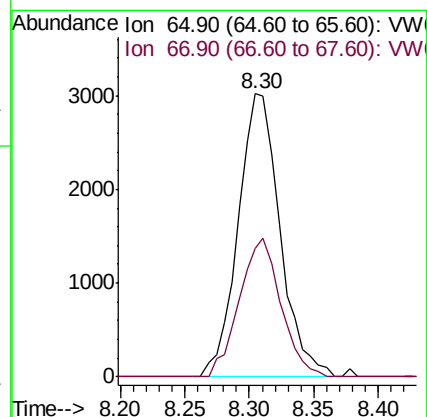
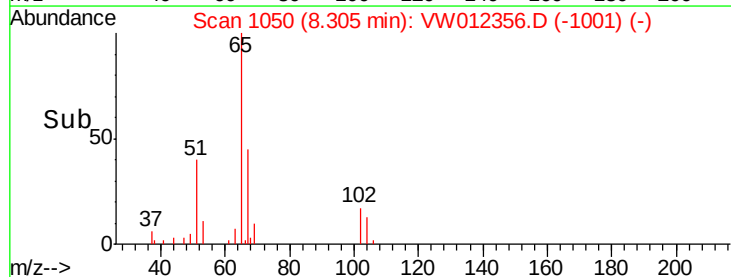
65 100

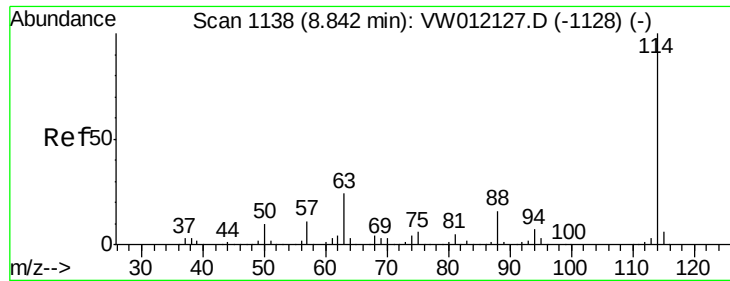
67 48.5 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

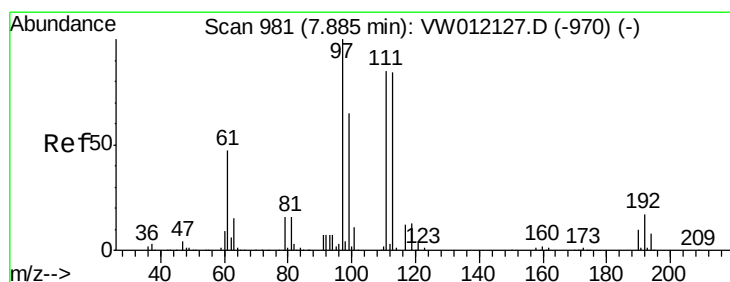
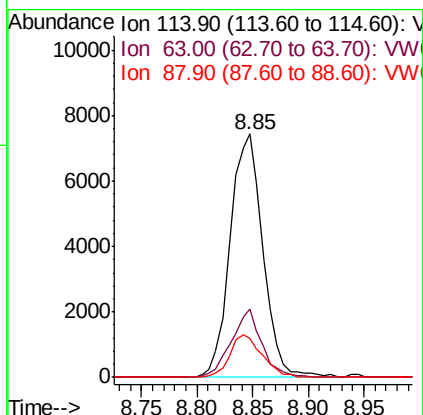
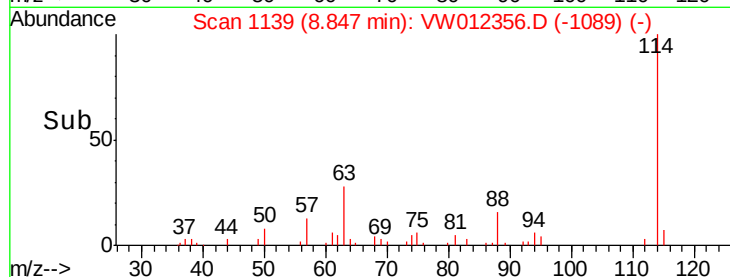
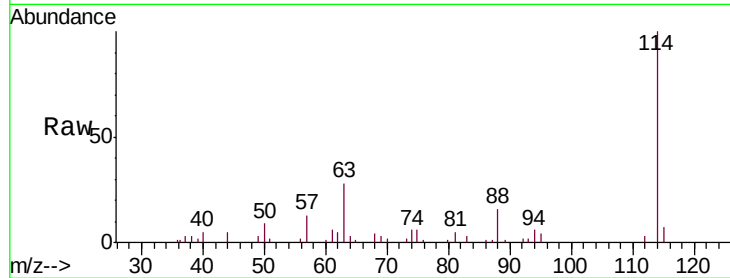




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW012356.D
 Acq: 30 Aug 2019 17:52

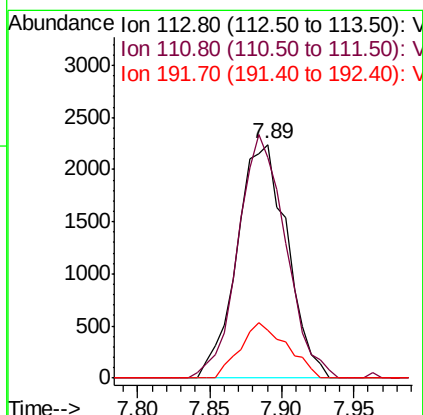
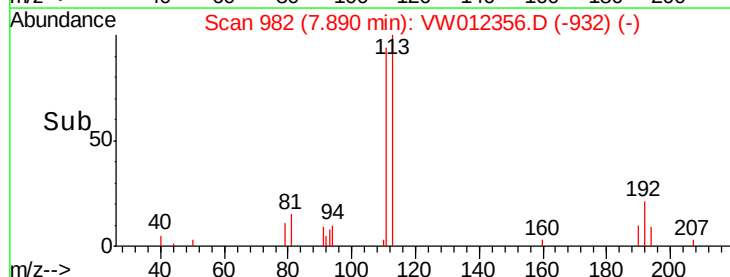
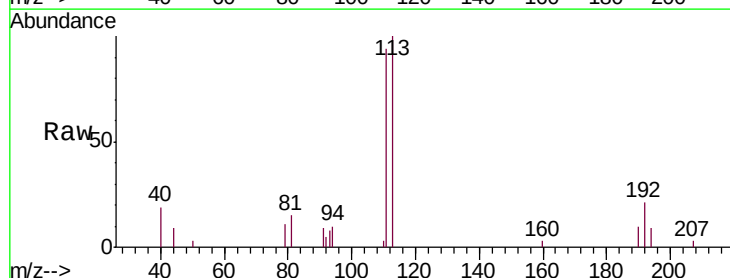
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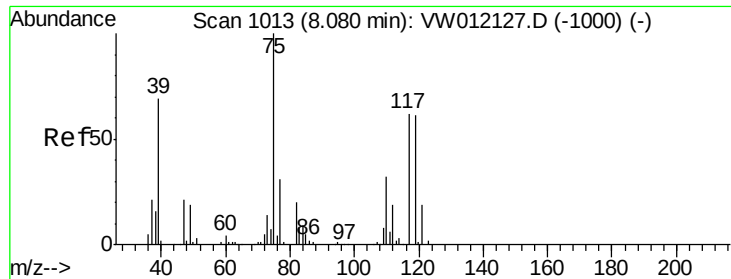
Tgt Ion:114 Resp: 15198
 Ion Ratio Lower Upper
 114 100
 63 27.8 0.0 48.6
 88 16.1 0.0 32.2



#35
 Dibromofluoromethane
 Concen: 59.823 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW012356.D
 Acq: 30 Aug 2019 17:52

Tgt Ion:113 Resp: 5427
 Ion Ratio Lower Upper
 113 100
 111 98.9 82.7 124.1
 192 22.1 16.2 24.2

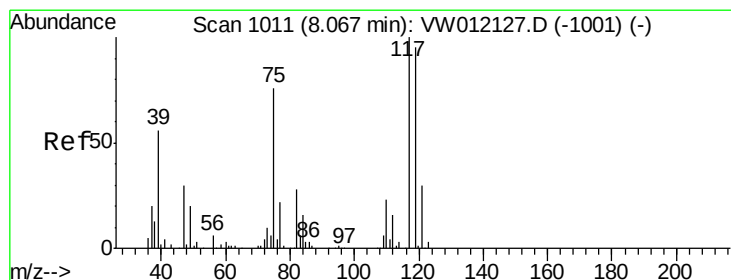
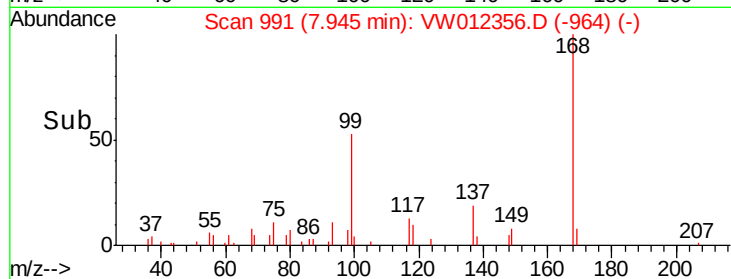
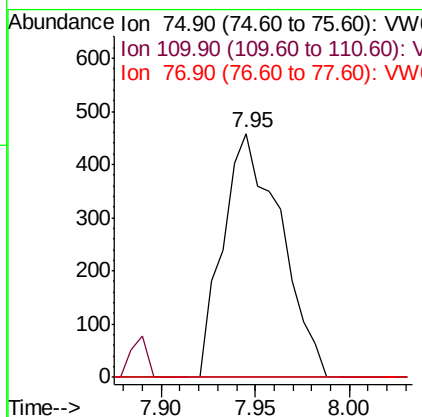
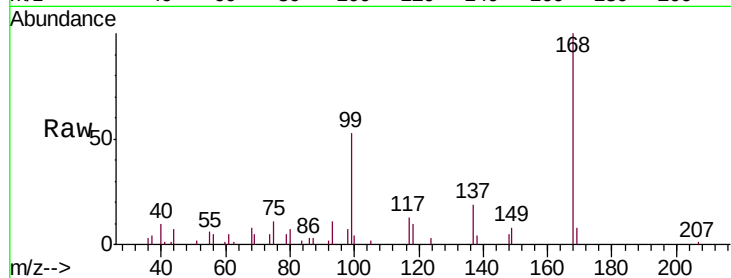




#36
 1,1-Dichloropropene
 Concen: 6.189 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012356.D
 Acq: 30 Aug 2019 17:52

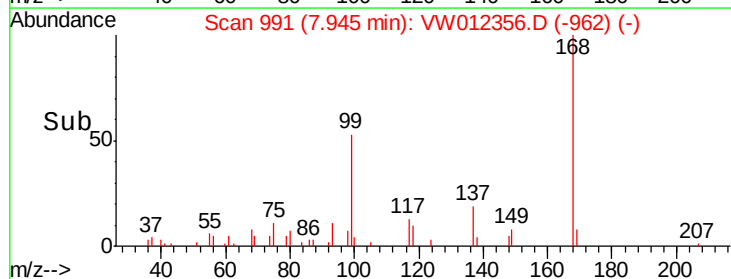
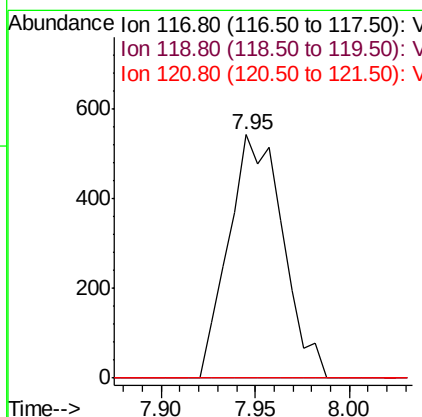
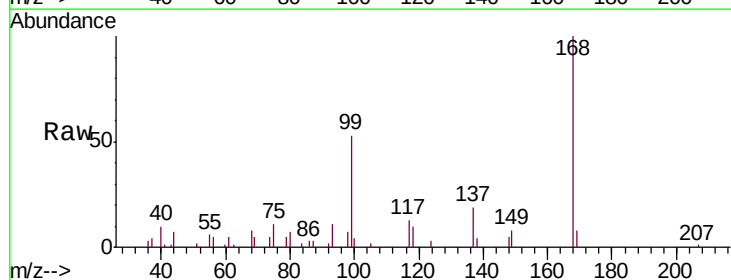
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200028

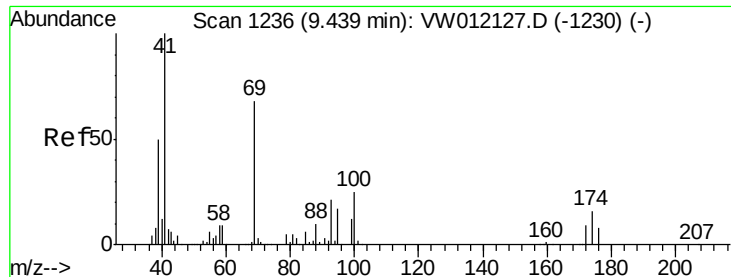
Tgt Ion: 75 Resp: 972
 Ion Ratio Lower Upper
 75 100
 110 0.0 15.6 46.8#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 7.974 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012356.D
 Acq: 30 Aug 2019 17:52

Tgt Ion: 117 Resp: 1084
 Ion Ratio Lower Upper
 117 100
 119 0.0 76.2 114.2#
 121 0.0 23.8 35.8#

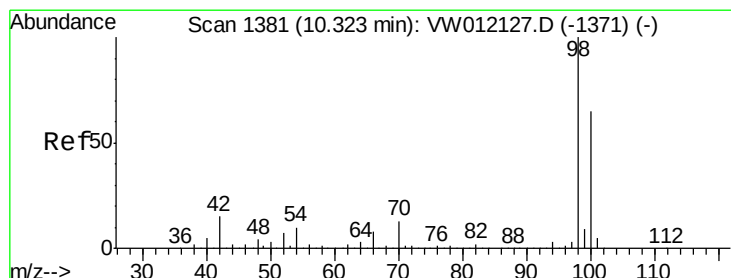
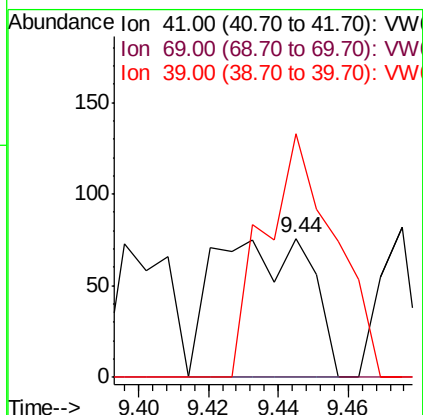
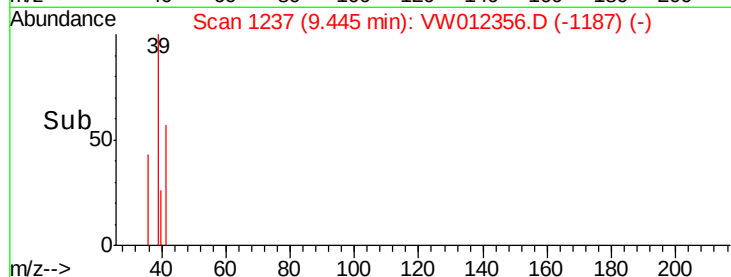
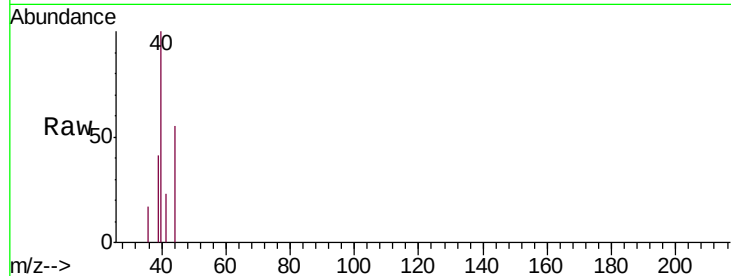




#48
Methyl methacrylate
Concen: 1.924 ug/l
RT: 9.44 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

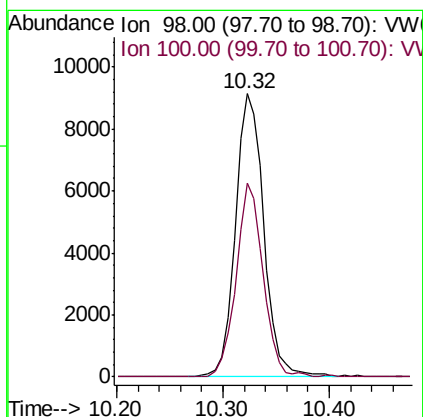
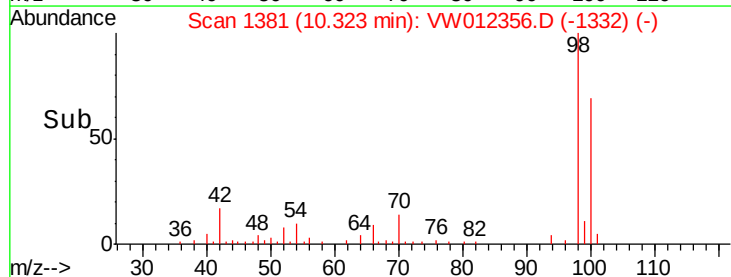
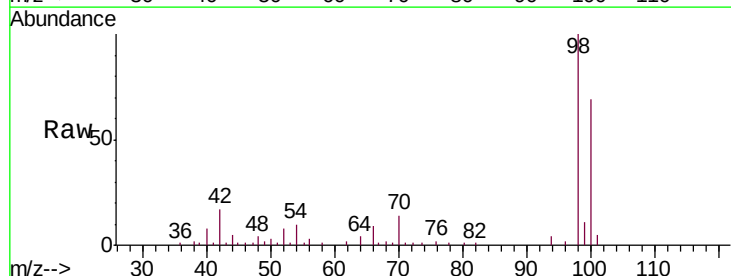
Instrument :
MSVOA_W
ClientSampleId :
RBR-200028

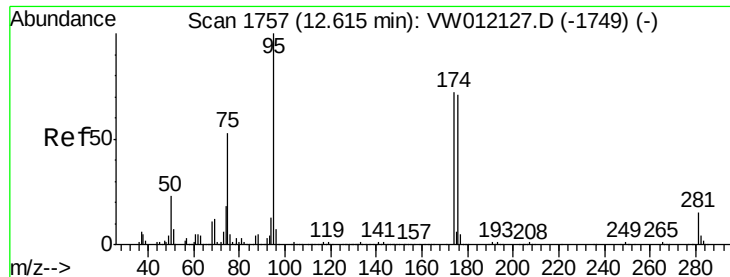
Tgt Ion: 41 Resp: 146
Ion Ratio Lower Upper
41 100
69 0.0 56.7 85.1#
39 128.1 42.0 63.0#



#50
Toluene-d8
Concen: 46.336 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

Tgt Ion: 98 Resp: 17044
Ion Ratio Lower Upper
98 100
100 65.3 52.4 78.6

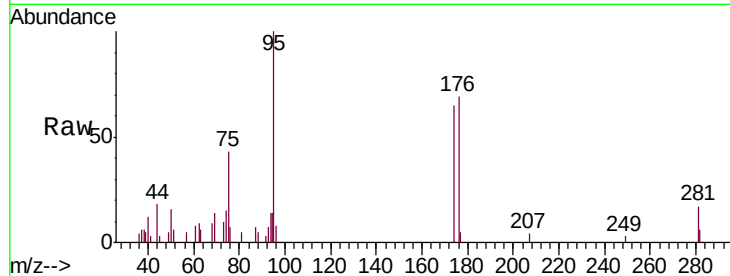




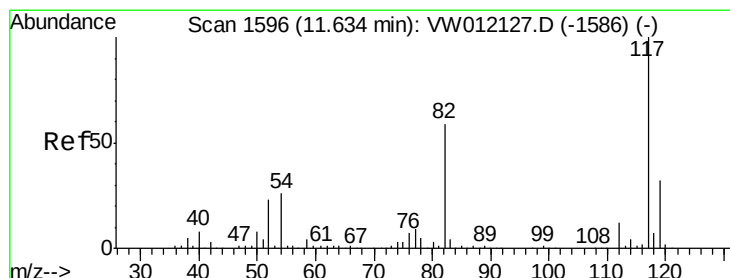
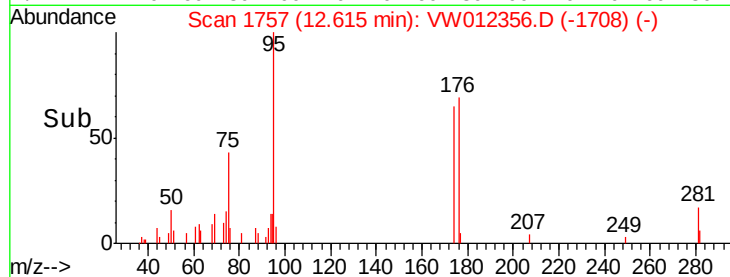
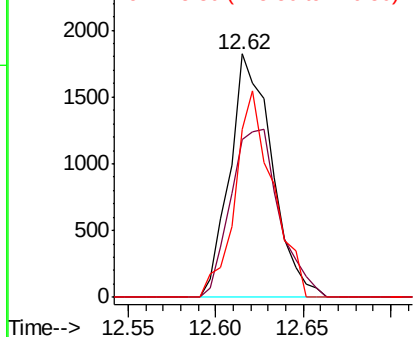
#62
4-Bromofluorobenzene
Concen: 23.554 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

Instrument :
MSVOA_W
ClientSampleId :
RBR-200028

Tgt Ion: 95 Resp: 3054
Ion Ratio Lower Upper
95 100
174 79.6 0.0 150.8
176 76.0 0.0 148.6

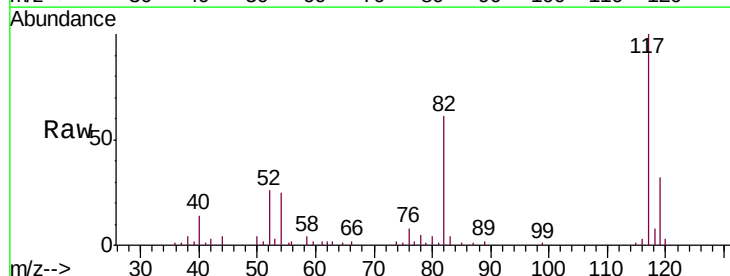


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

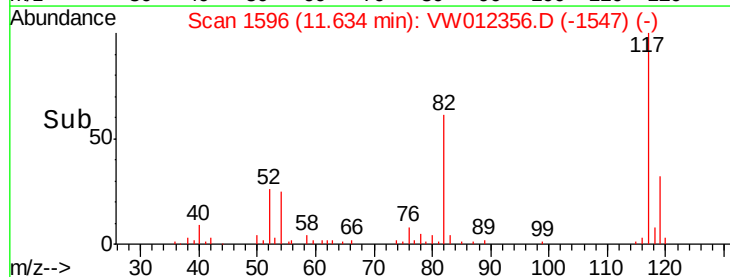
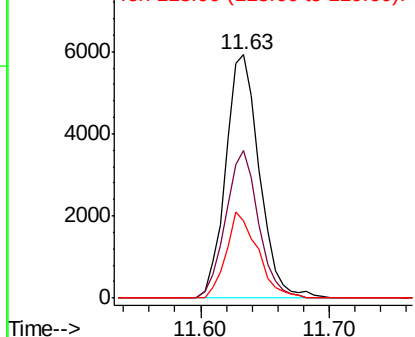


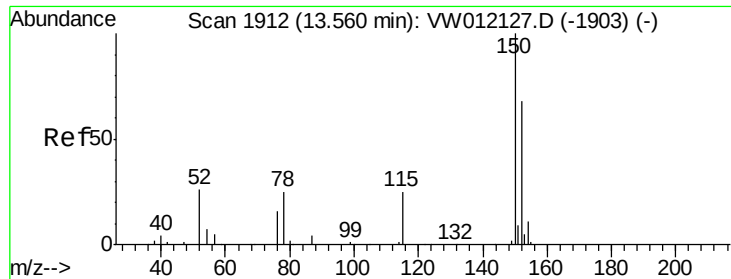
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

Tgt Ion: 117 Resp: 10824
Ion Ratio Lower Upper
117 100
82 60.9 47.4 71.2
119 31.8 25.4 38.2



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



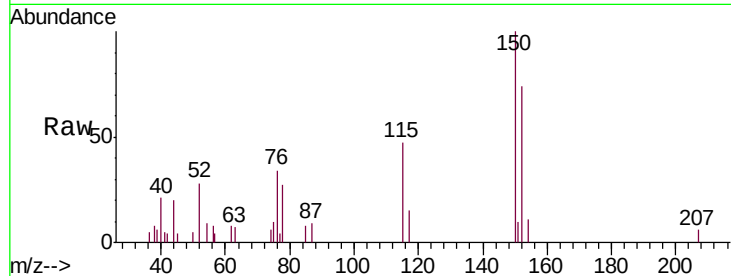


#72

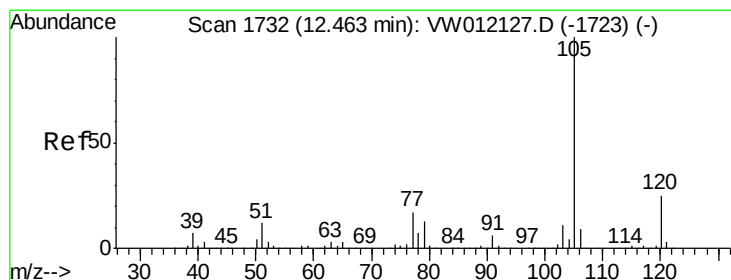
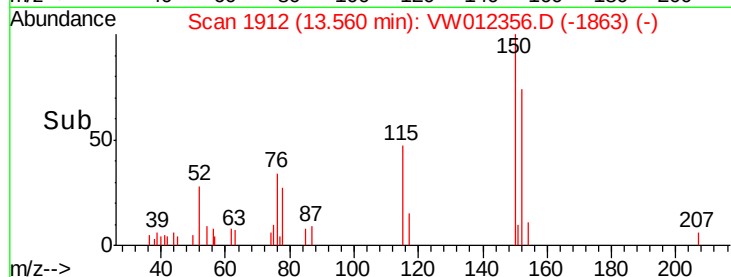
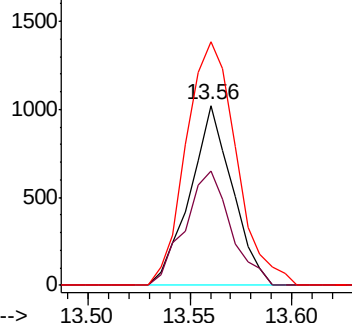
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

Instrument :
MSVOA_W
ClientSampled :
RBR-200028

Tgt Ion:152 Resp: 1482
Ion Ratio Lower Upper
152 100
115 68.5 30.1 90.3
150 160.0 0.0 345.8



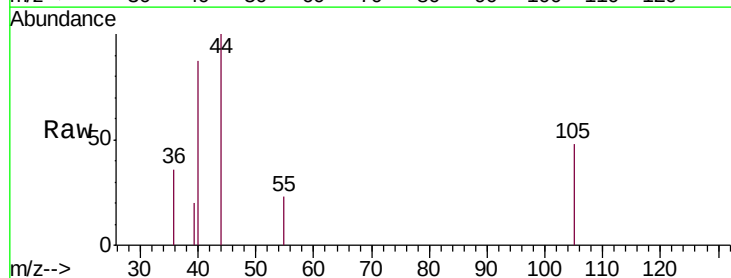
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



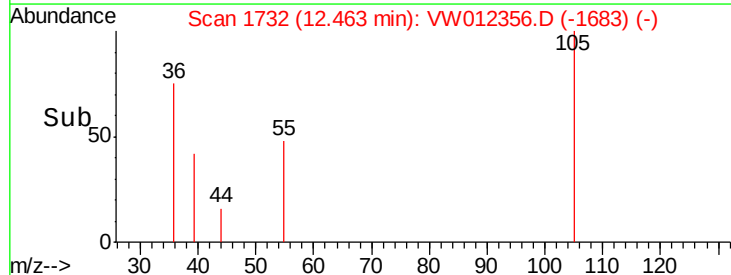
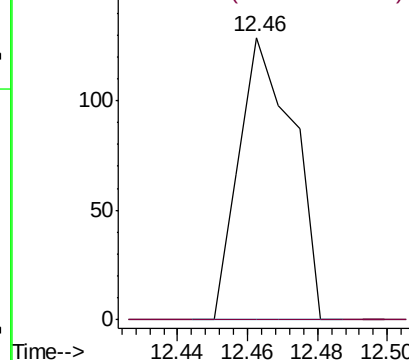
#73

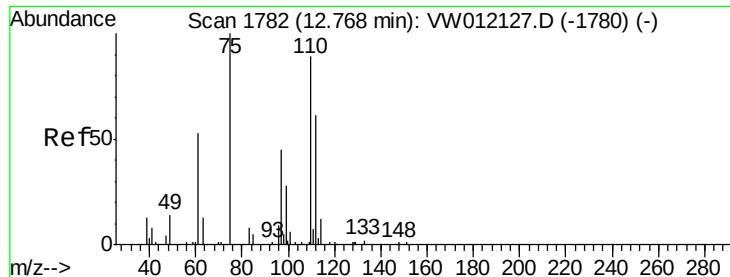
Isopropylbenzene
Concen: 1.252 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW012356.D
Acq: 30 Aug 2019 17:52

Tgt Ion:105 Resp: 139
Ion Ratio Lower Upper
105 100
120 0.0 12.5 37.5#



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





#76

1,2,3-Trichloropropane

Concen: 116.880 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012356.D

Acq: 30 Aug 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

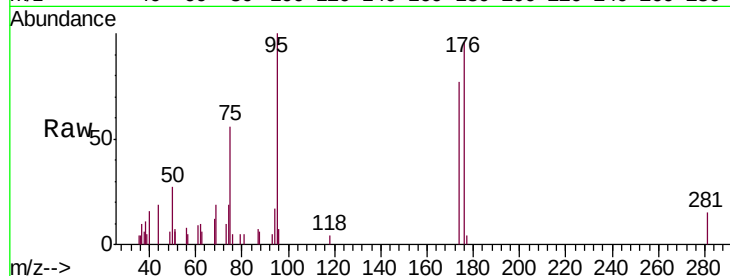
RBR-200028

Tgt Ion: 75 Resp: 1687

Ion Ratio Lower Upper

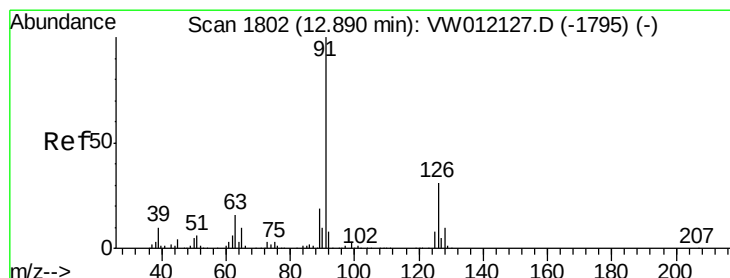
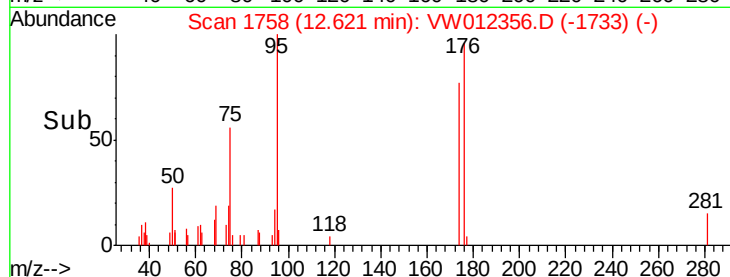
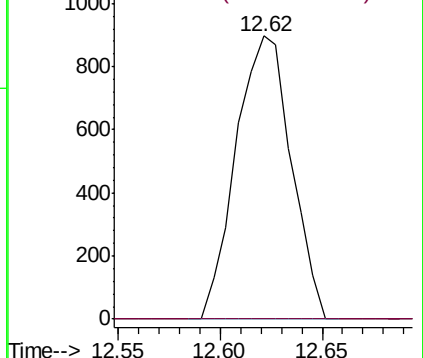
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#79

2-Chlorotoluene

Concen: 1.390 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW012356.D

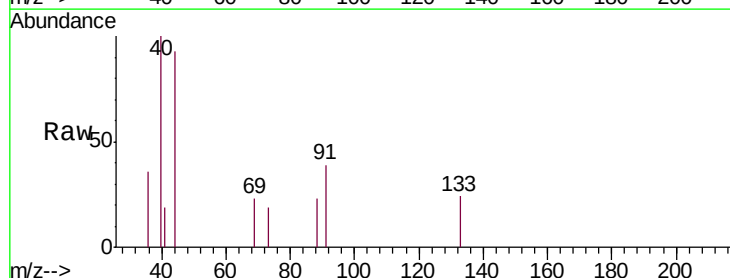
Acq: 30 Aug 2019 17:52

Tgt Ion: 91 Resp: 107

Ion Ratio Lower Upper

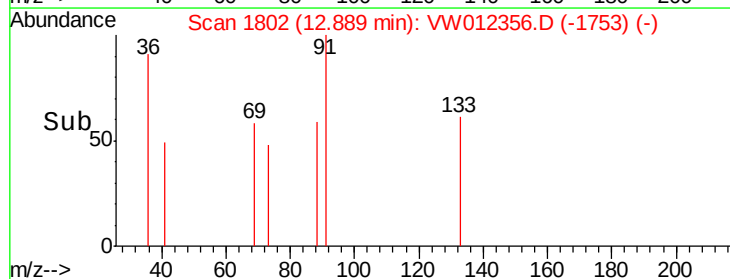
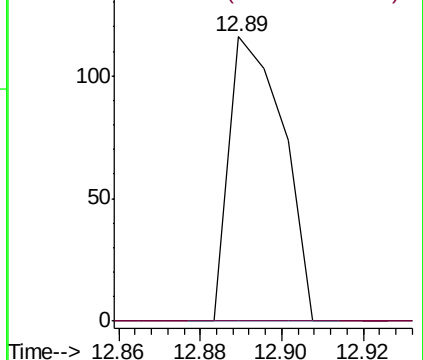
91 100

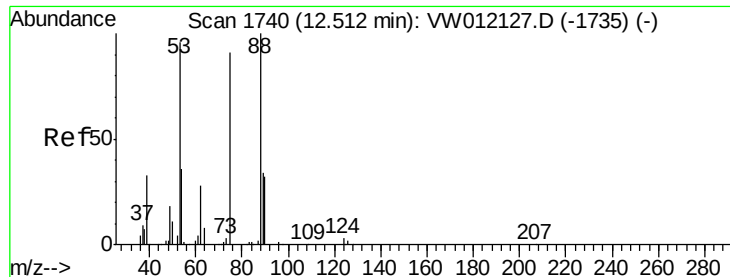
126 0.0 15.7 47.0#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 256.263 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012356.D

Acq: 30 Aug 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

RBR-200028

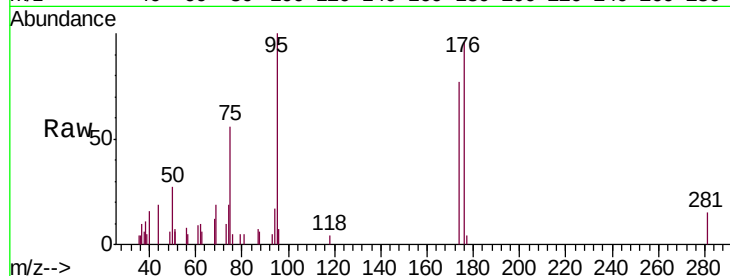
Tgt Ion: 75 Resp: 1687

Ion Ratio Lower Upper

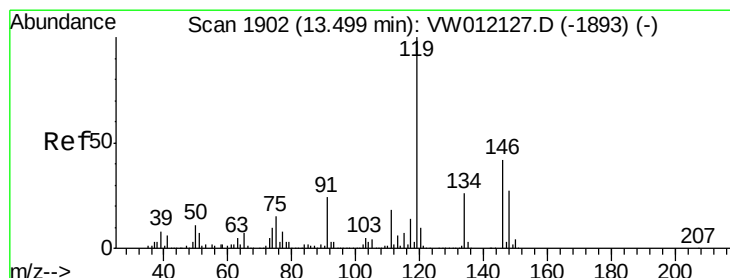
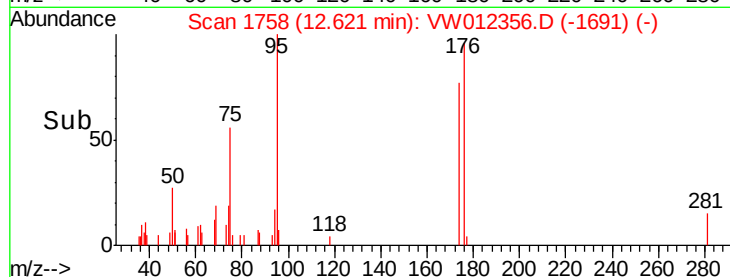
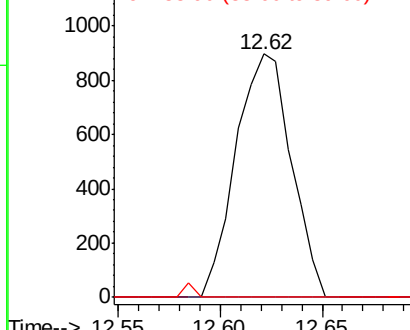
75 100

53 0.0 89.4 134.0#

89 0.0 34.5 51.7#



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



#87

1,3-Dichlorobenzene

Concen: 1.107 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.01 min

Lab File: VW012356.D

Acq: 30 Aug 2019 17:52

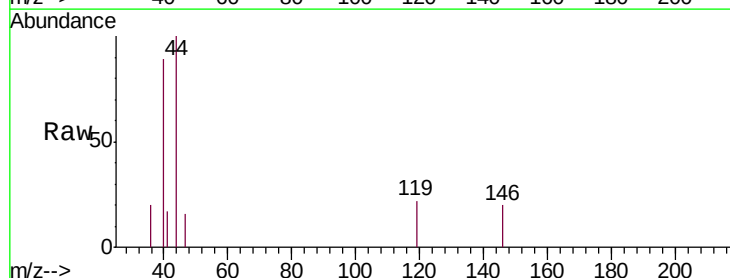
Tgt Ion: 146 Resp: 52

Ion Ratio Lower Upper

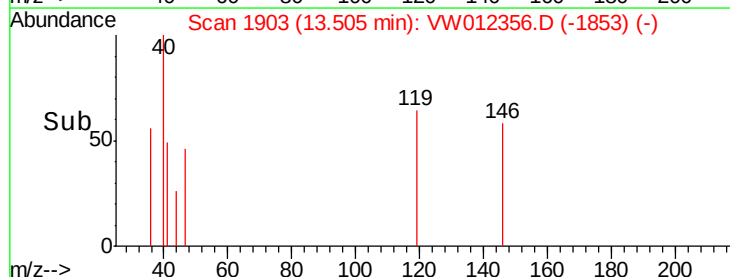
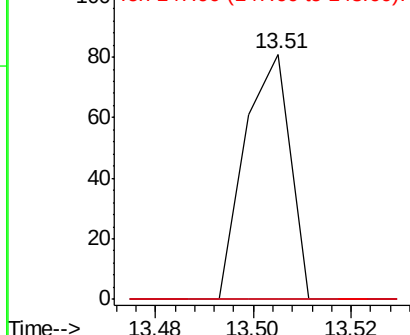
146 100

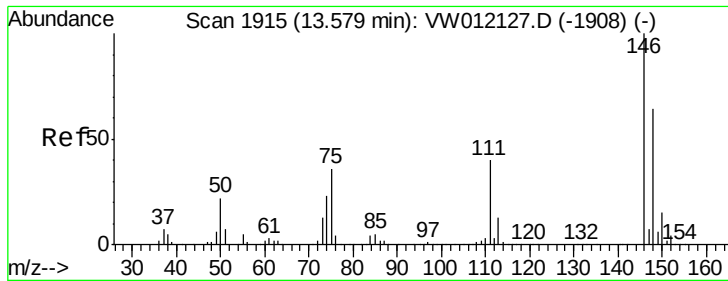
111 0.0 20.9 62.7#

148 0.0 32.2 96.6#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

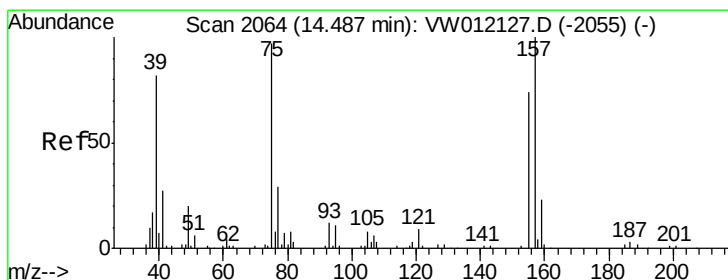
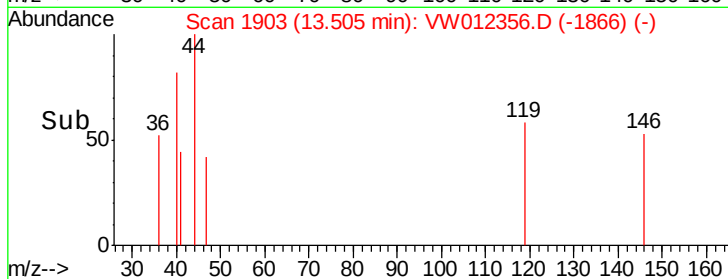
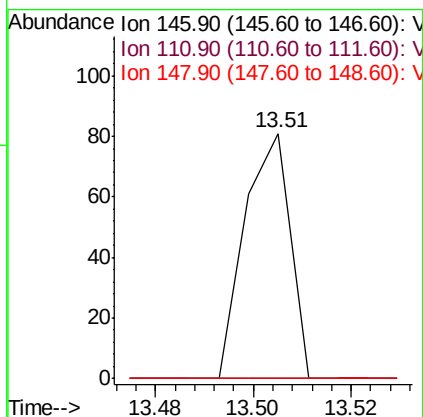
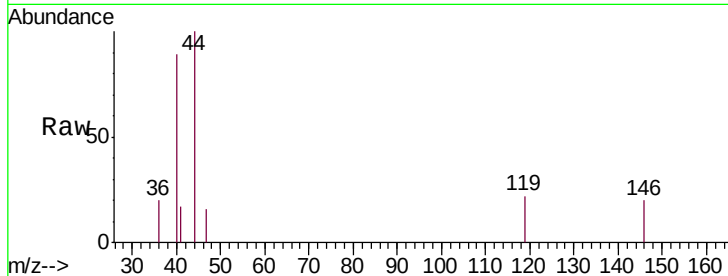




#88
 1,4-Dichlorobenzene
 Concen: 1.114 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.07 min
 Lab File: VW012356.D
 Acq: 30 Aug 2019 17:52

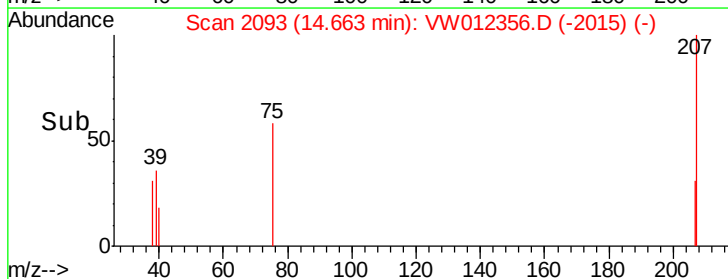
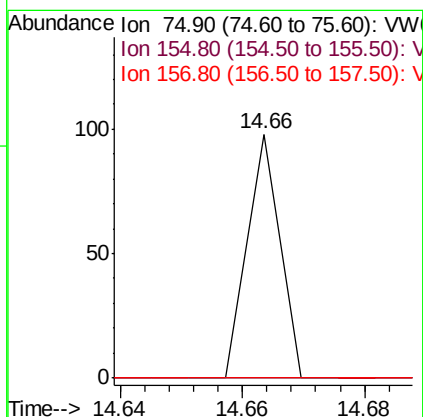
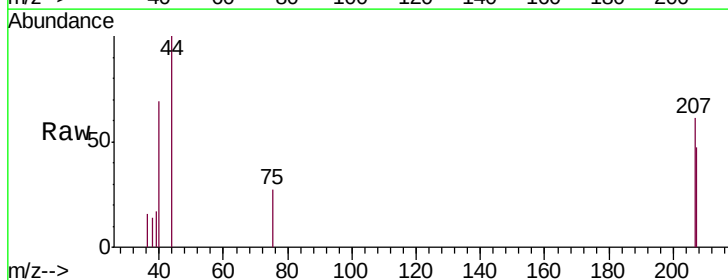
Instrument :
 MSVOA_W
 ClientSampled :
 RBR-200028

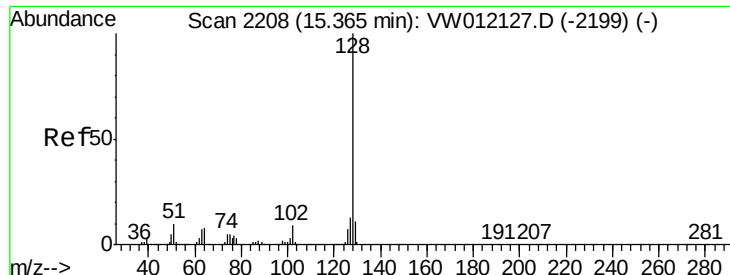
Tgt Ion: 146 Resp: 52
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 60.0#
 148 0.0 32.1 96.3#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 10.489 ug/l
 RT: 14.66 min Scan# 2093
 Delta R.T. 0.18 min
 Lab File: VW012356.D
 Acq: 30 Aug 2019 17:52

Tgt Ion: 75 Resp: 36
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.5 112.3#
 157 0.0 50.5 151.5#





#95

Naphthalene

Concen: 5.857 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012356.D

Acq: 30 Aug 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

RBR-200028

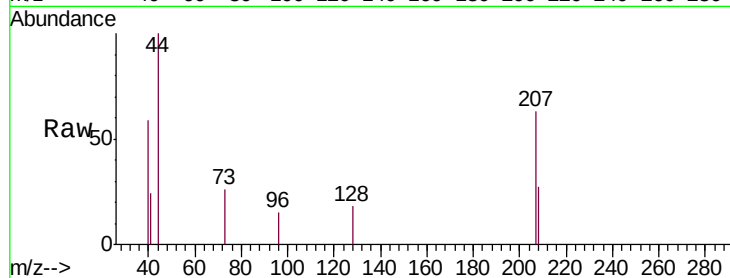
Tgt Ion:128 Resp: 94

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

