

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071718\
 Data File : VW004009.D
 Acq On : 18 Jul 2018 03:53
 Operator : VA/AP
 Sample : J3821-03RE
 Misc : 6.11G/5ML/MSVOA W/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HR-05-071218-BRE

Quant Time: Jul 18 04:54:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W071618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 15:06:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	152759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	270772	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	141209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	54736	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	124574	72.96	ug/l	0.00
Spiked Amount			Recovery	=	145.92%	
35) Dibromofluoromethane	7.88	113	61305	35.29	ug/l	0.00
Spiked Amount			Recovery	=	70.58%	
50) Toluene-d8	10.33	98	174504	25.89	ug/l	0.00
Spiked Amount			Recovery	=	51.78%	
62) 4-Bromofluorobenzene	12.63	95	65966	27.14	ug/l	0.00
Spiked Amount			Recovery	=	54.28%	

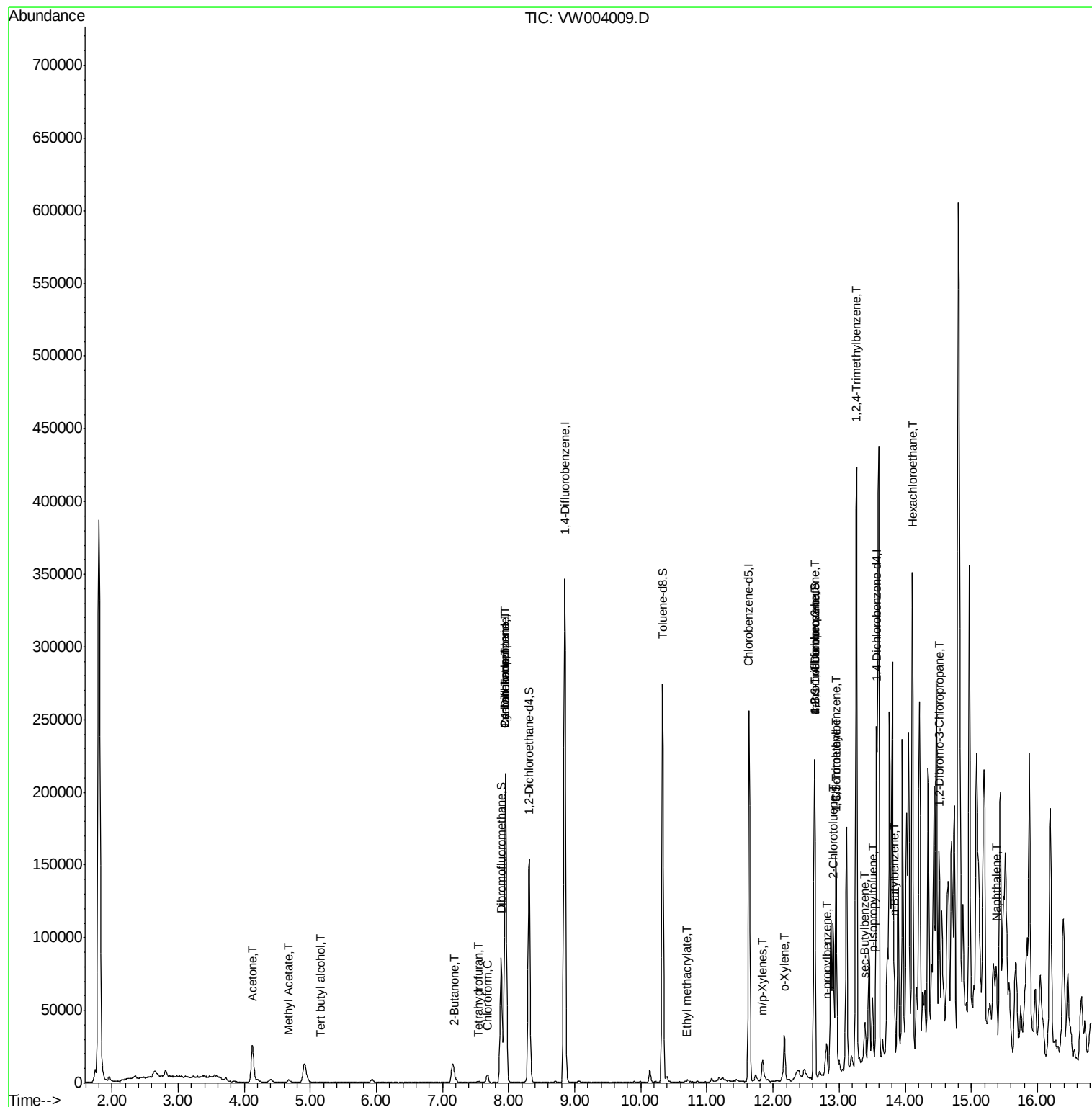
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.16	59	317	2.689	ug/l #	72
16) Acetone	4.12	43	44057	107.372	ug/l	94
18) Methyl Acetate	4.67	43	3135	3.183	ug/l	95
20) Methylene Chloride	4.90	84	11011	Below Cal		96
25) 2-Butanone	7.18	43	5142	9.312	ug/l	98
29) Tetrahydrofuran	7.54	42	407	1.183	ug/l #	51
30) Chloroform	7.67	83	4699	1.563	ug/l	99
31) Cyclohexane	7.96	56	3721	1.314	ug/l #	20
36) 1,1-Dichloropropene	7.95	75	13532	4.857	ug/l #	49
38) Carbon Tetrachloride	7.95	117	14843	5.702	ug/l #	18
56) Ethyl methacrylate	10.69	69	22	2.956	ug/l #	22
68) m/p-Xylenes	11.84	106	4037	2.002	ug/l	99
69) o-Xylene	12.17	106	7327	3.918	ug/l	92
76) 1,2,3-Trichloropropane	12.63	75	35227	64.827	ug/l #	100
78) n-propylbenzene	12.81	91	15274	3.219	ug/l	99
79) 2-Chlorotoluene	12.91	91	6350	2.373	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.95	105	63935	19.643	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.63	75	35227	143.395	ug/l #	11
82) 4-Chlorotoluene	12.95	91	7722	2.689	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.26	105	219778	65.629	ug/l	99
85) sec-Butylbenzene	13.40	105	15147	3.736	ug/l	84
86) p-Isopropyltoluene	13.51	119	22870	6.430	ug/l	98
89) n-Butylbenzene	13.83	91	23573	6.742	ug/l #	72
90) Hexachloroethane	14.11	117	16559	25.258	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.51	75	396	2.977	ug/l #	3
95) Naphthalene	15.38	128	16774	7.857	ug/l #	97

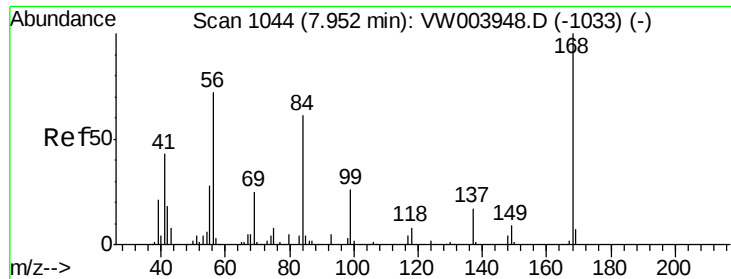
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 16 15:06:12 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

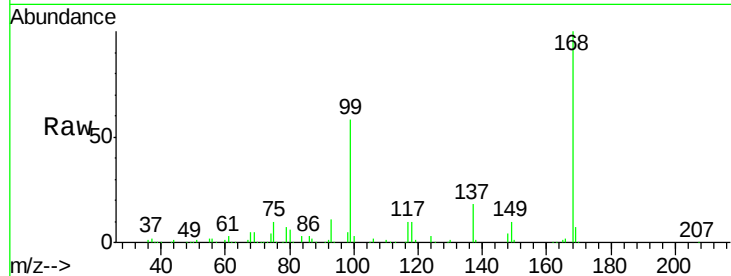
HR-05-071218-BRE

Tot Ion:168 Resp: 152759

Ion Ratio Lower Upper

168 100

99 58.5 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

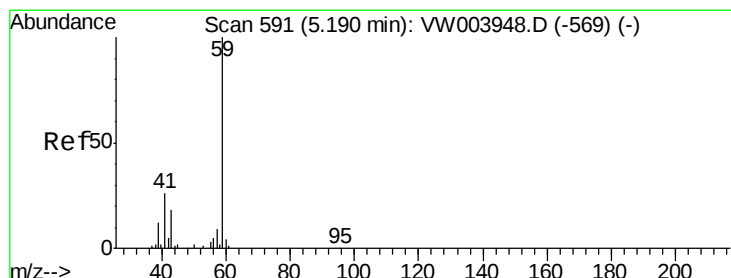
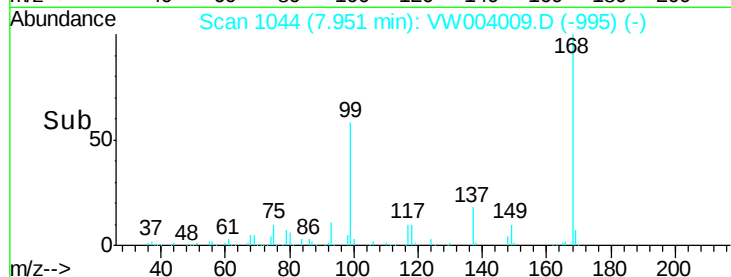
40000

20000

0

7.90 8.00 8.10

Time-->



#11

Tert butyl alcohol

Concen: 2.689 ug/l

RT: 5.16 min Scan# 586

Delta R.T. -0.03 min

Lab File: VW004009.D

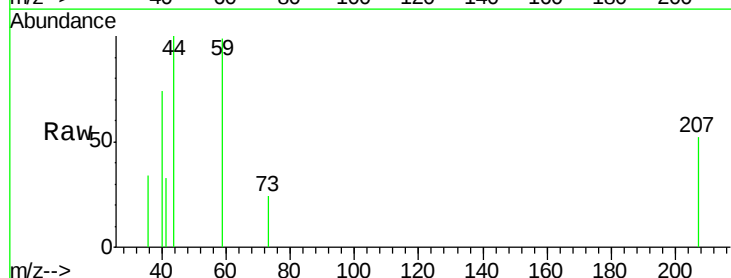
Acq: 18 Jul 2018 03:53

Tgt Ion: 59 Resp: 317

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.16

200

150

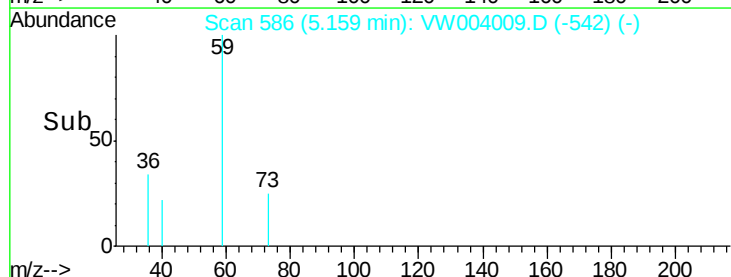
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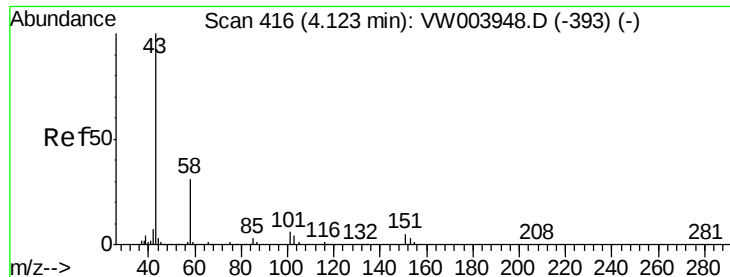
50

0

5.14 5.16 5.18

Time-->





#16

Acetone

Concen: 107.372 ug/l

RT: 4.12 min Scan# 416

Delta R.T. -0.00 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

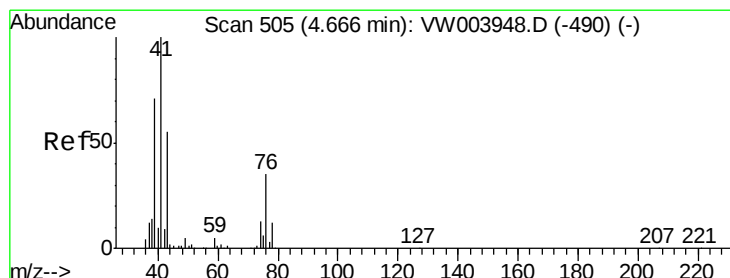
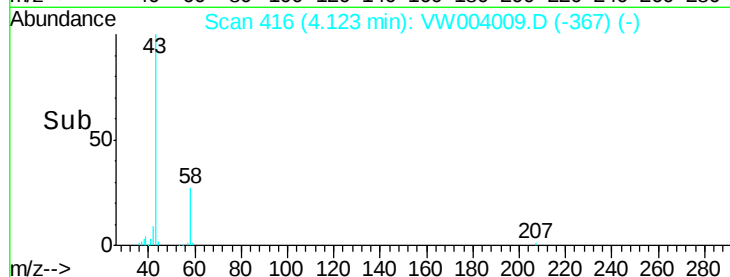
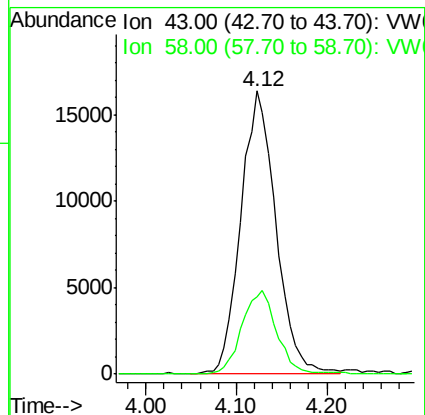
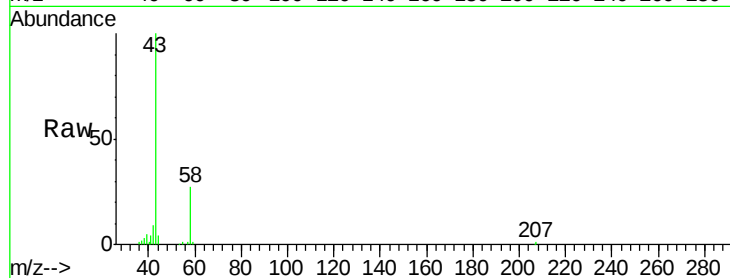
HR-05-071218-BRE

Tot Ion: 43 Resp: 44057

Ion Ratio Lower Upper

43 100

58 27.4 24.5 36.7



#18

Methyl Acetate

Concen: 3.183 ug/l

RT: 4.67 min Scan# 506

Delta R.T. 0.01 min

Lab File: VW004009.D

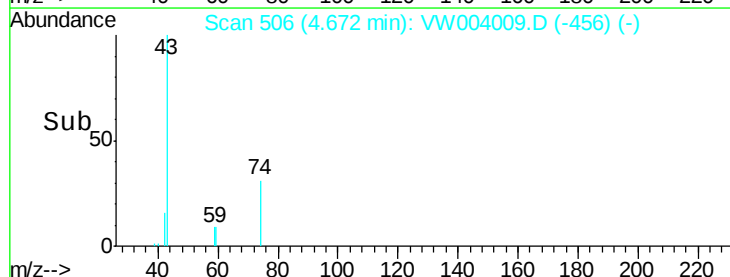
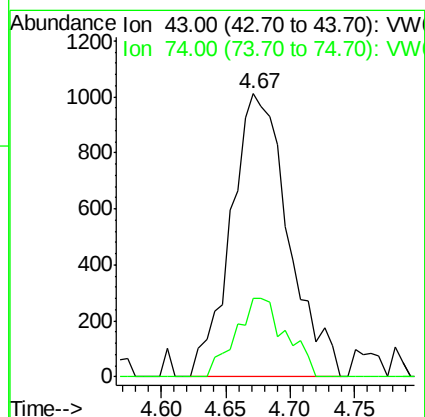
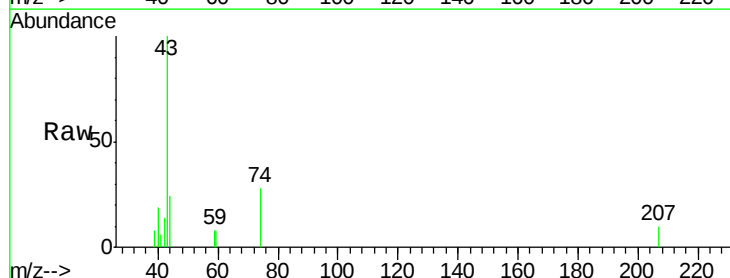
Acq: 18 Jul 2018 03:53

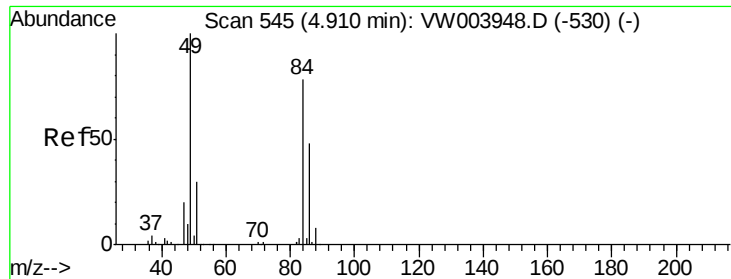
Tgt Ion: 43 Resp: 3135

Ion Ratio Lower Upper

43 100

74 24.3 17.7 26.5

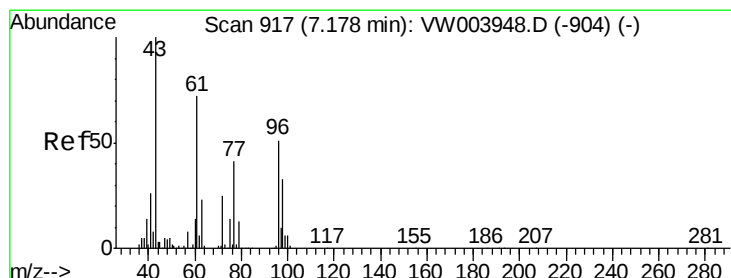
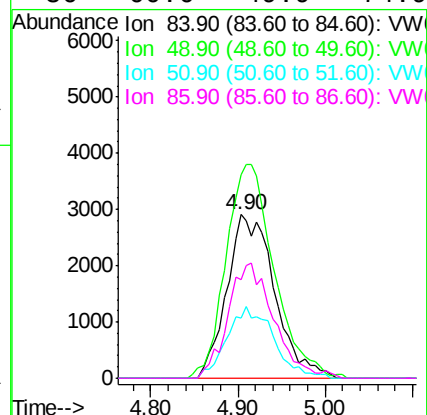
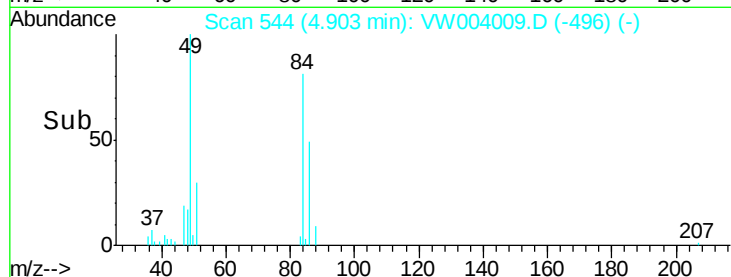
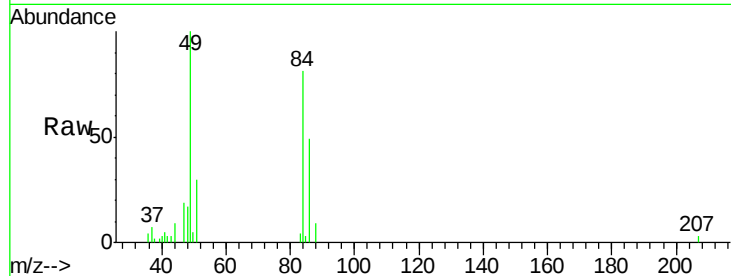




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.90 min Scan# 544
Delta R.T. -0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

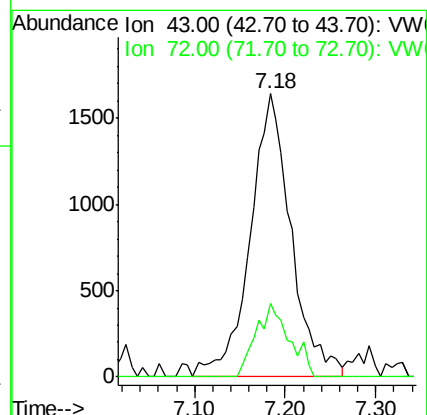
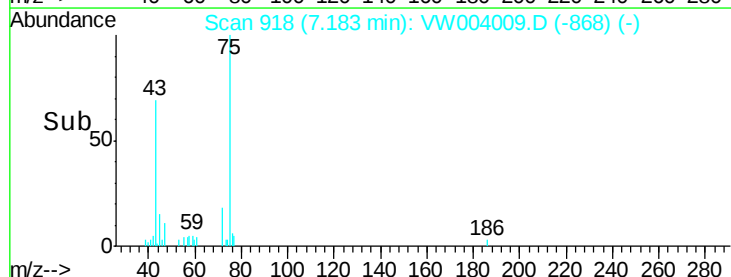
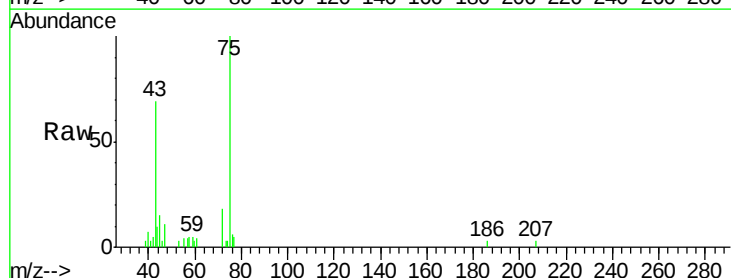
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-BRE

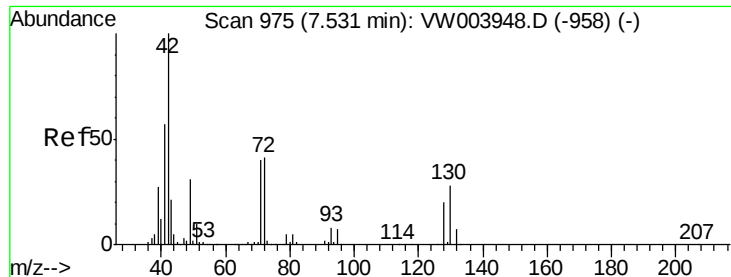
Tot Ion:	84	Resp:	11011
Ion	Ratio	Lower	Upper
84	100		
49	122.2	102.9	154.3
51	37.0	30.9	46.3
86	60.6	49.9	74.9



#25
2-Butanone
Concen: 9.312 ug/l
RT: 7.18 min Scan# 918
Delta R.T. 0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

Tgt Ion:	43	Resp:	5142
Ion	Ratio	Lower	Upper
43	100		
72	25.8	19.8	29.6

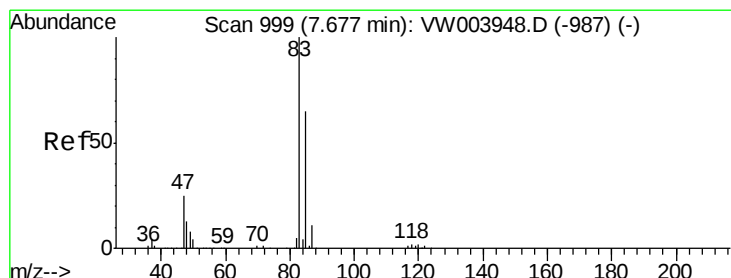
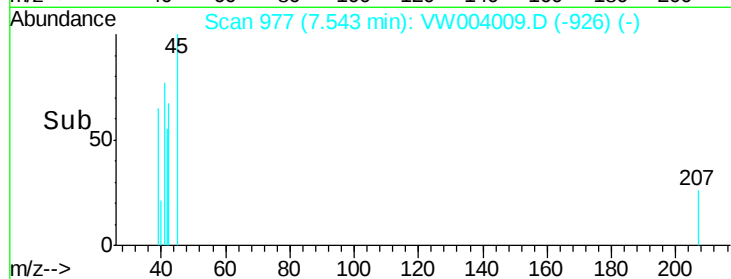
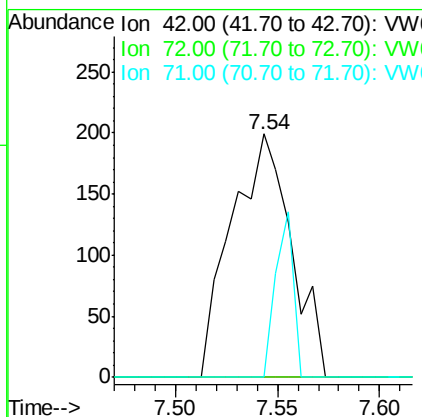
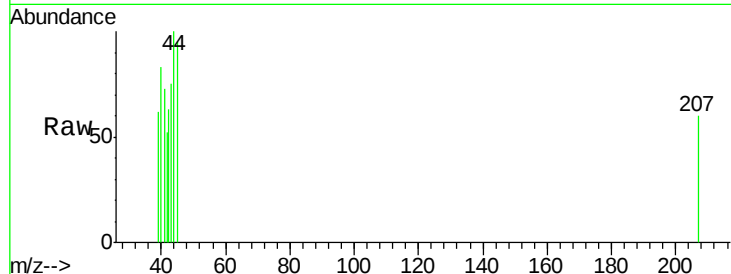




#29
Tetrahydrofuran
Concen: 1.183 ug/l
RT: 7.54 min Scan# 977
Delta R.T. 0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

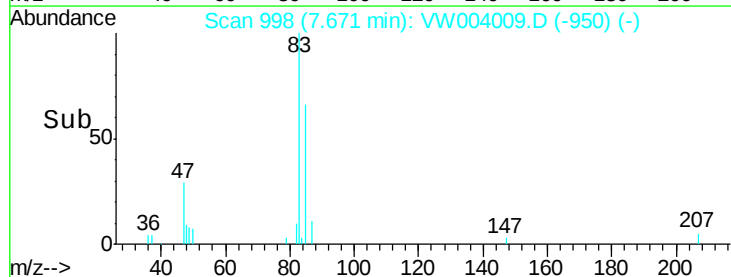
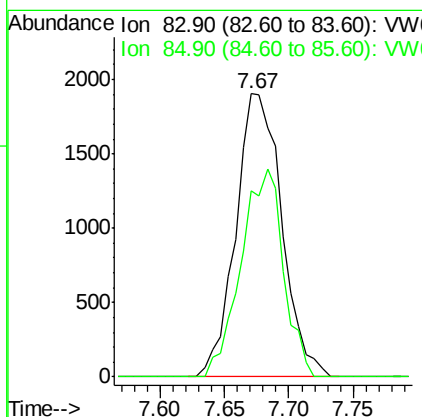
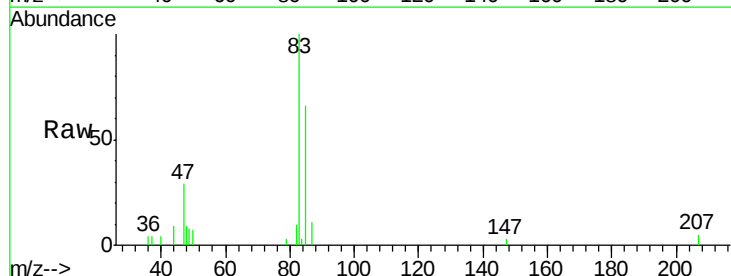
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-BRE

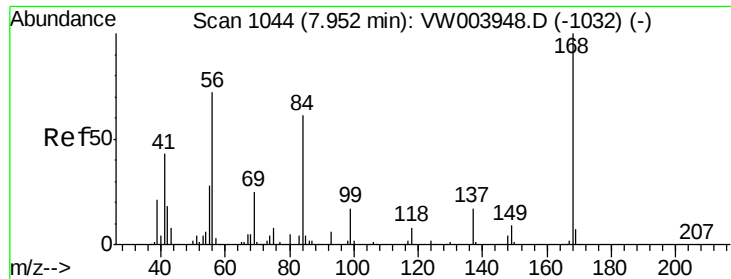
Tot Ion: 42 Resp: 407
Ion Ratio Lower Upper
42 100
72 0.0 32.6 48.8#
71 19.7 30.5 45.7#



#30
Chloroform
Concen: 1.563 ug/l
RT: 7.67 min Scan# 998
Delta R.T. -0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

Tgt Ion: 83 Resp: 4699
Ion Ratio Lower Upper
83 100
85 65.9 52.2 78.4

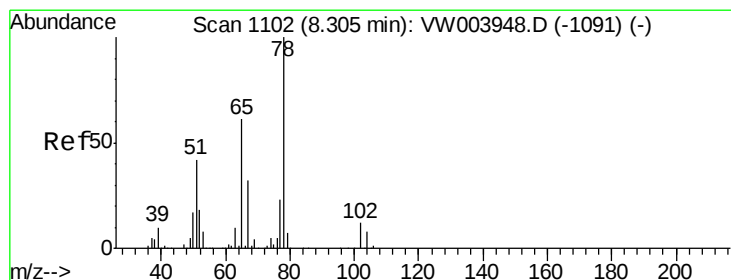
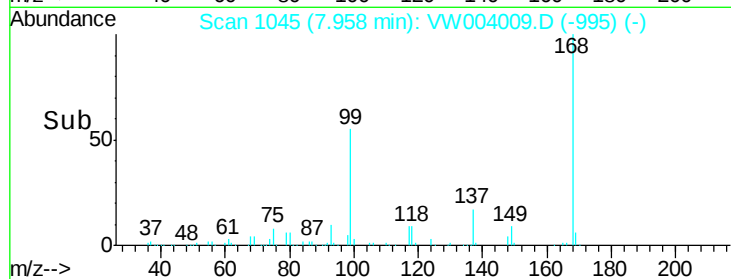
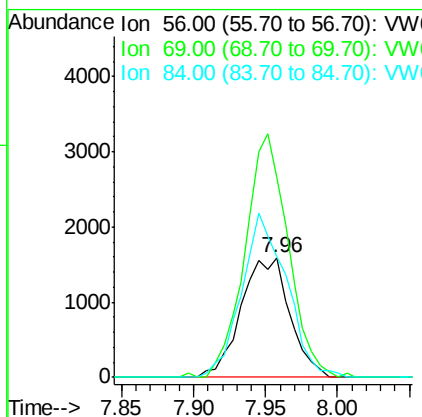
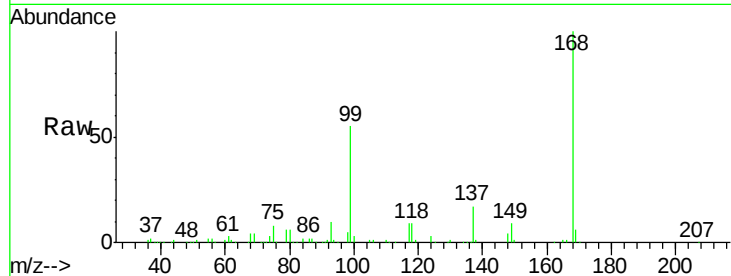




#31
Cyclohexane
Concen: 1.314 ug/l
RT: 7.96 min Scan# 1045
Delta R.T. 0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

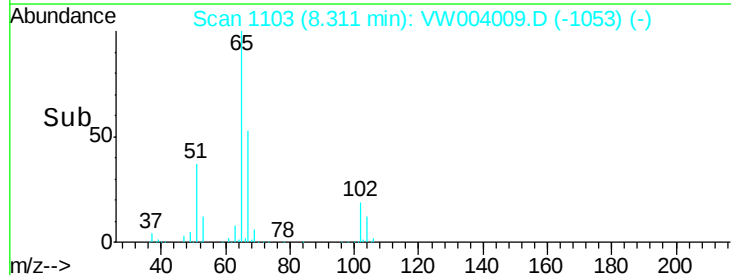
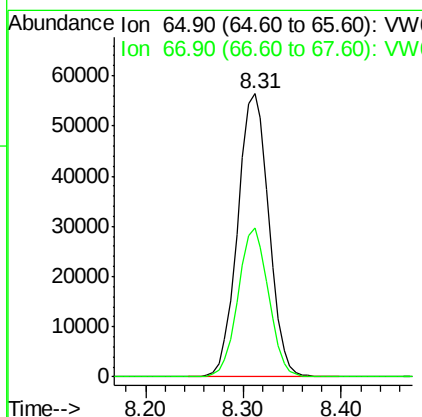
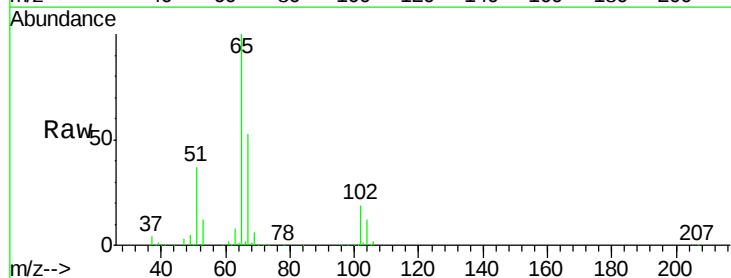
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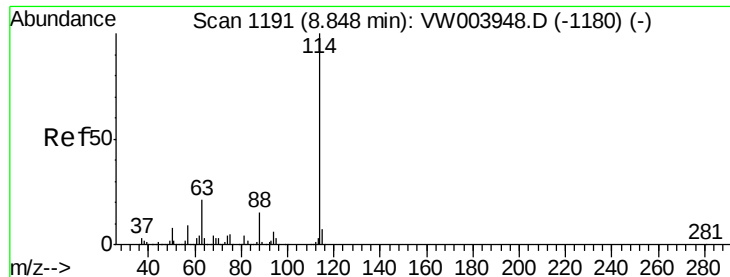
Tot Ion: 56 Resp: 3721
Ion Ratio Lower Upper
56 100
69 167.0 27.8 41.8#
84 100.9 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 72.955 ug/l
RT: 8.31 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

Tgt Ion: 65 Resp: 124574
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.0

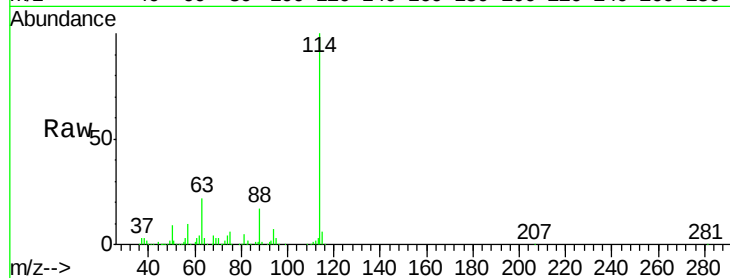




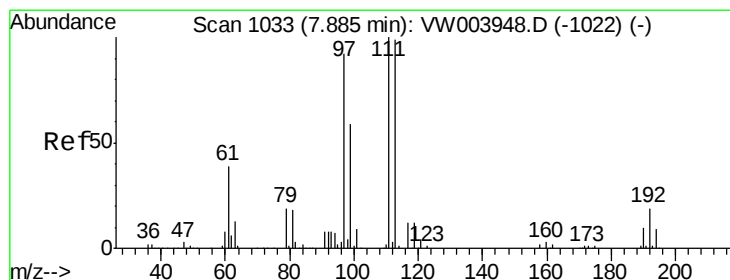
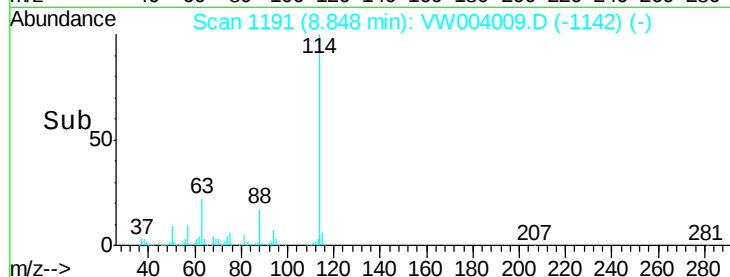
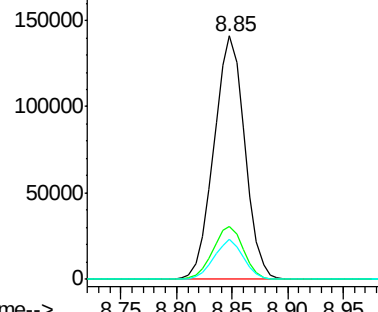
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: VW004009.D
 Acq: 18 Jul 2018 03:53

Instrument :
 MSVOA_W
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 HR-05-071218-BRE

Tot Ion:114 Resp: 270772
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 42.8
 88 16.5 0.0 30.4

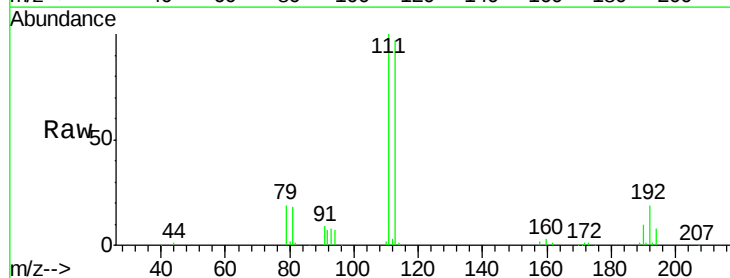


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

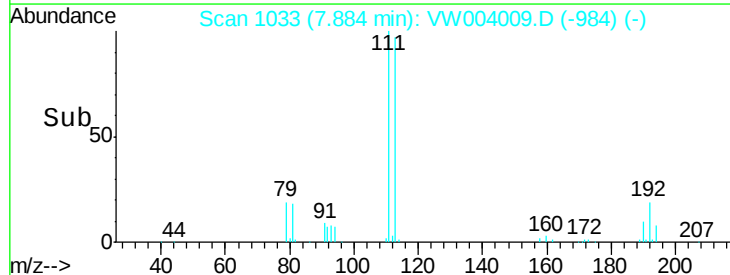
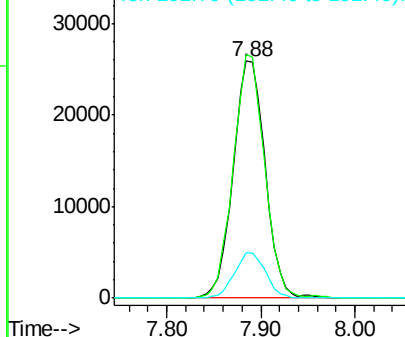


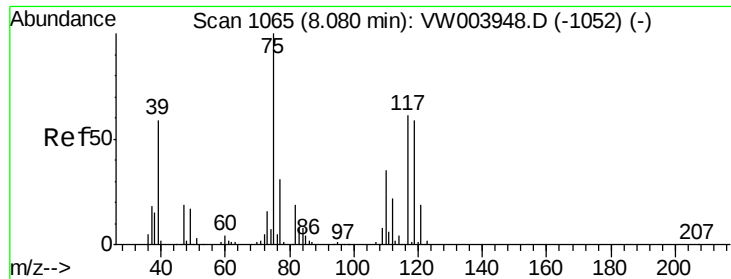
#35
 Dibromofluoromethane
 Concen: 35.287 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: VW004009.D
 Acq: 18 Jul 2018 03:53

Tgt Ion:113 Resp: 61305
 Ion Ratio Lower Upper
 113 100
 111 100.4 81.3 121.9
 192 18.7 15.8 23.6



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: 4.857 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

HR-05-071218-BRE

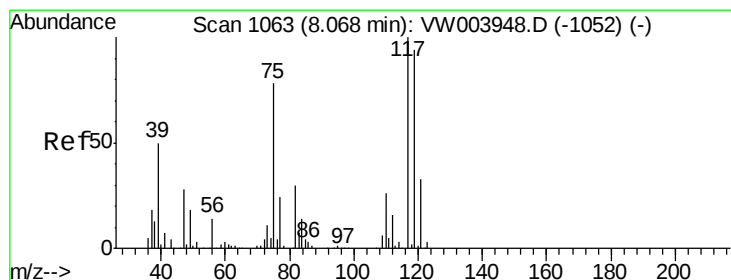
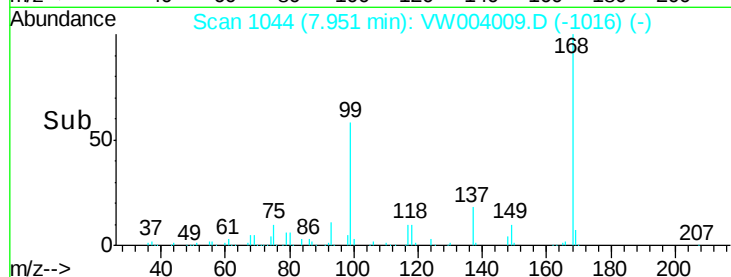
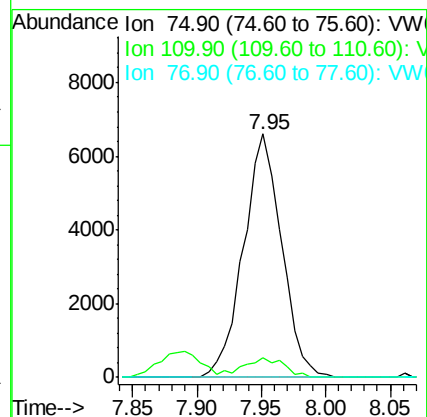
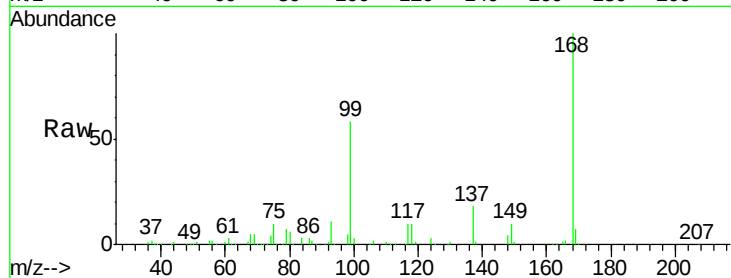
Tot Ion: 75 Resp: 13532

Ion Ratio Lower Upper

75 100

110 8.0 17.0 51.0#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.702 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

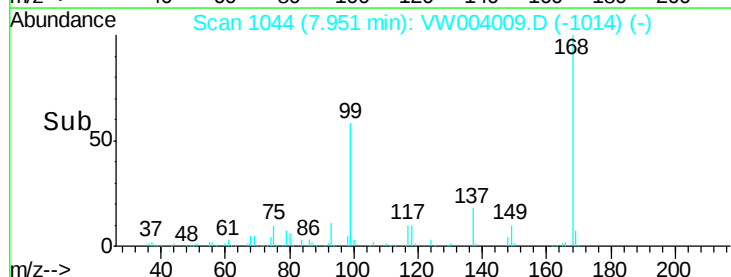
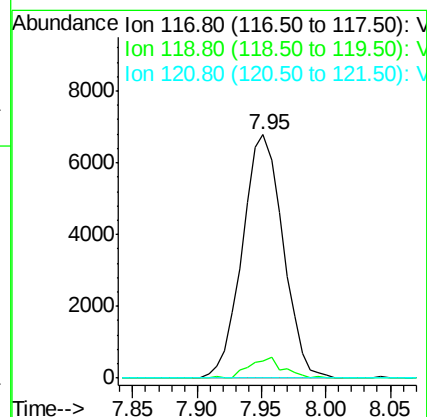
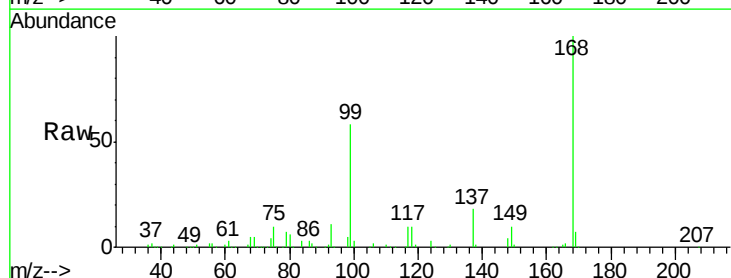
Tgt Ion: 117 Resp: 14843

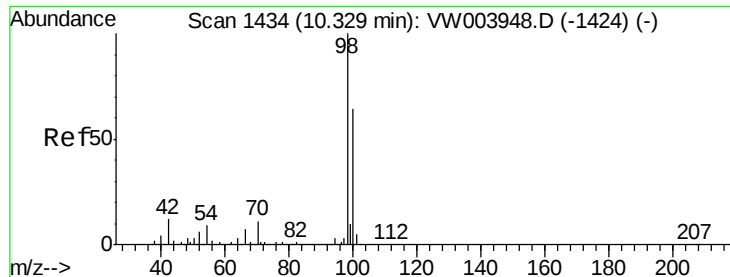
Ion Ratio Lower Upper

117 100

119 7.0 75.3 112.9#

121 0.0 26.0 39.0#





#50

Toluene-d8

Concen: 25.886 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

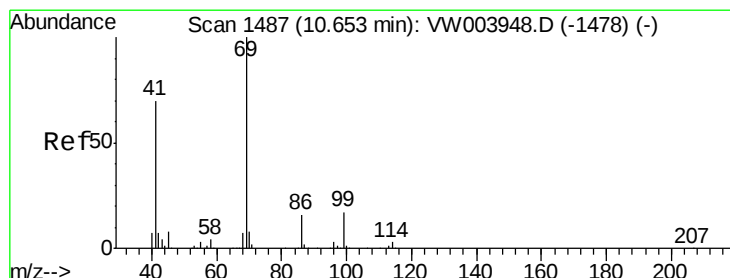
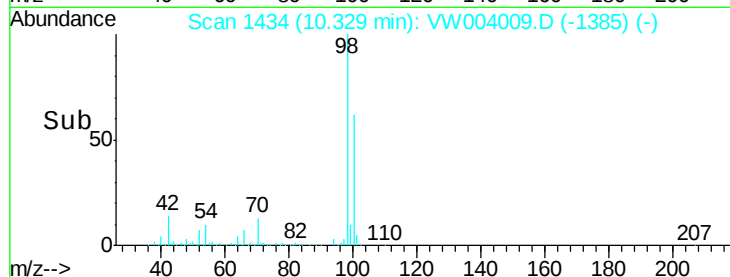
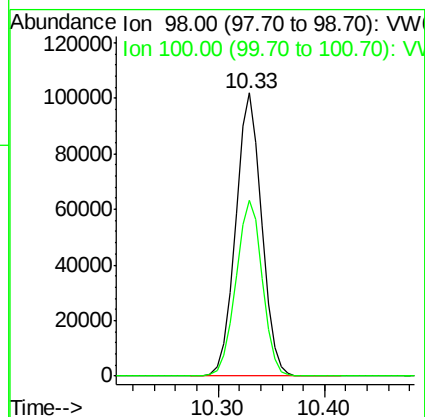
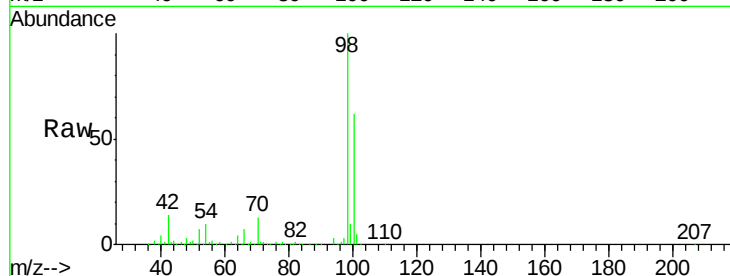
HR-05-071218-BRE

Tot Ion: 98 Resp: 174504

Ion Ratio Lower Upper

98 100

100 62.9 51.2 76.8



#56

Ethyl methacrylate

Concen: 2.956 ug/l

RT: 10.69 min Scan# 1493

Delta R.T. 0.04 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

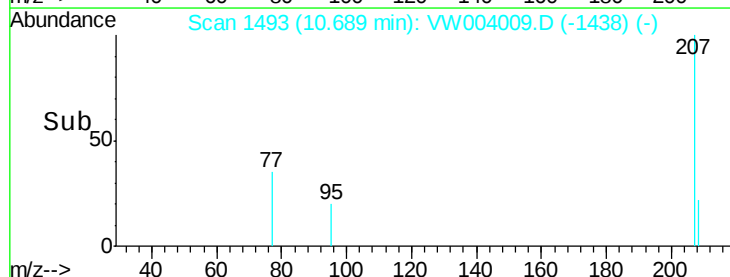
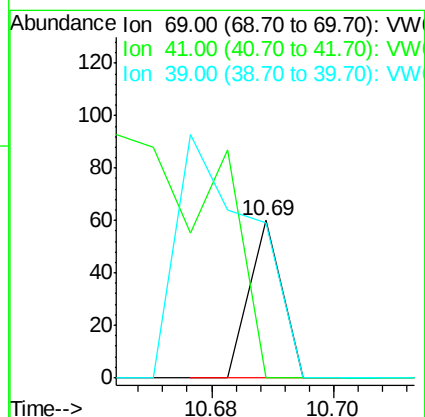
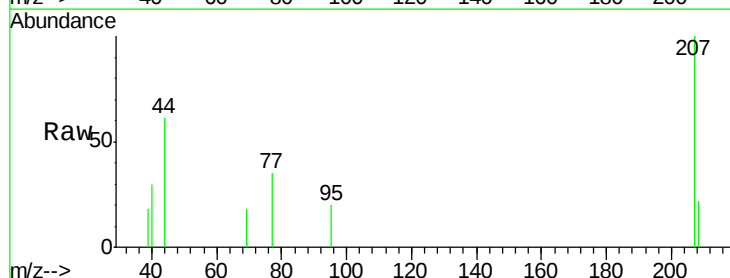
Tgt Ion: 69 Resp: 22

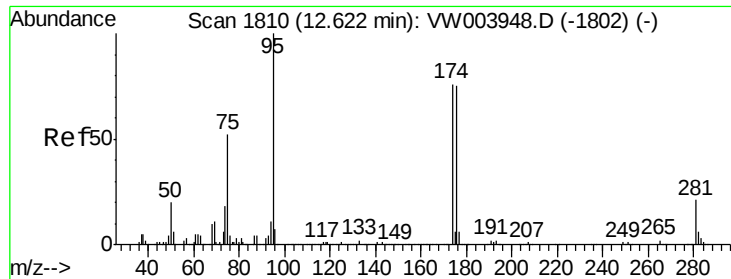
Ion Ratio Lower Upper

69 100

41 0.0 56.5 84.7#

39 0.0 30.2 45.4#

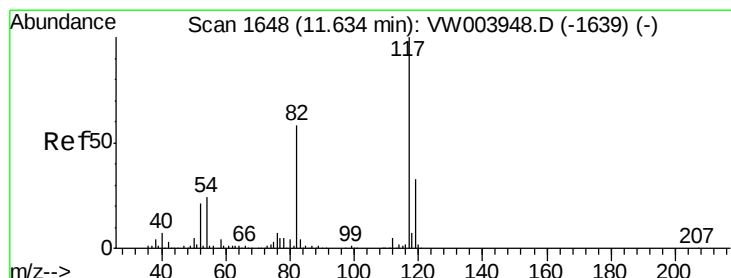
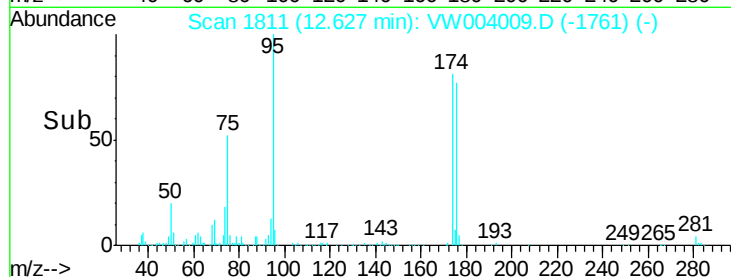
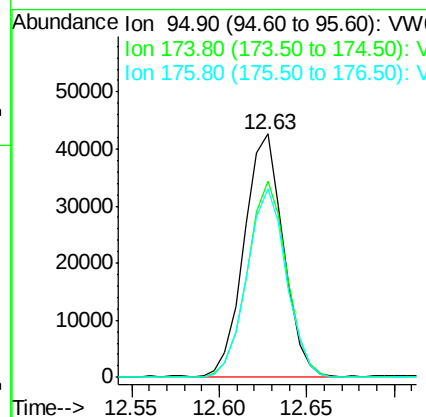
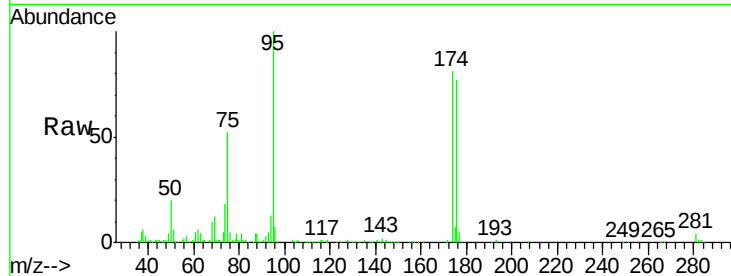




#62
4-Bromofluorobenzene
Concen: 27.136 ug/l
RT: 12.63 min Scan# 1811
Delta R.T. 0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

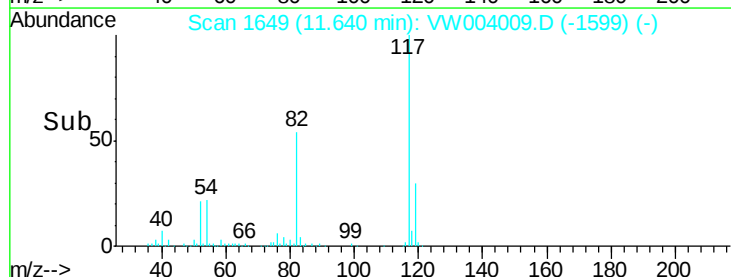
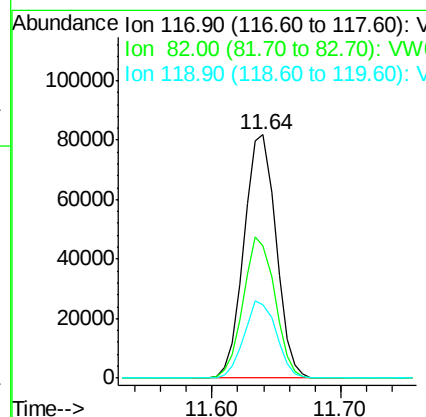
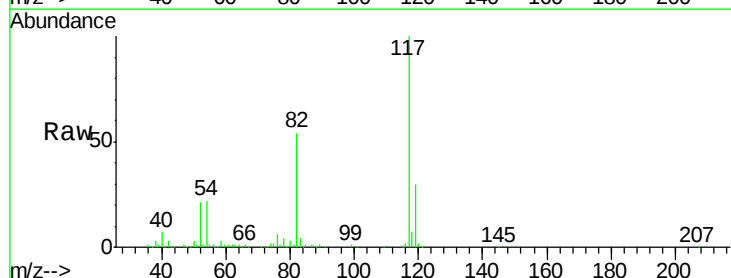
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-BRE

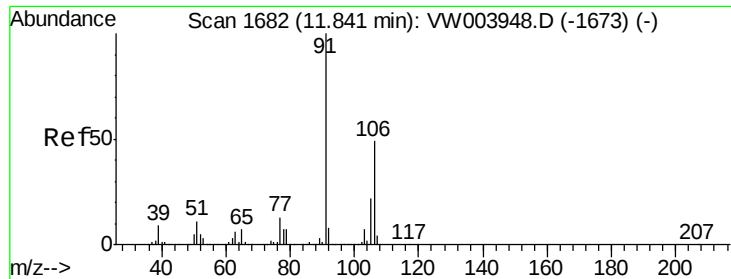
Tot Ion: 95 Resp: 65966
Ion Ratio Lower Upper
95 100
174 82.0 0.0 160.2
176 78.5 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. 0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

Tgt Ion: 117 Resp: 141209
Ion Ratio Lower Upper
117 100
82 54.3 46.5 69.7
119 30.3 26.2 39.2

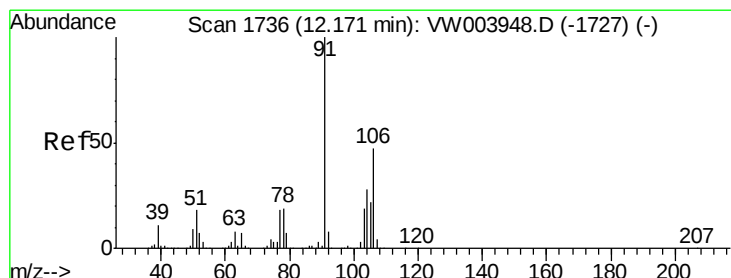
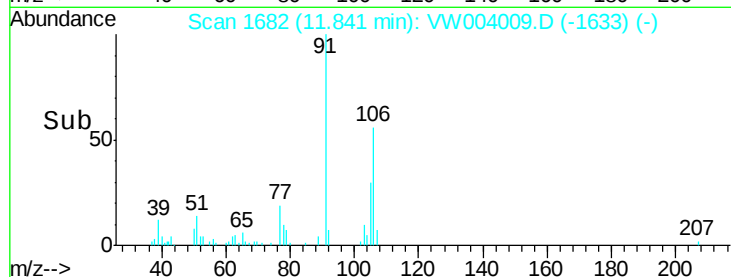
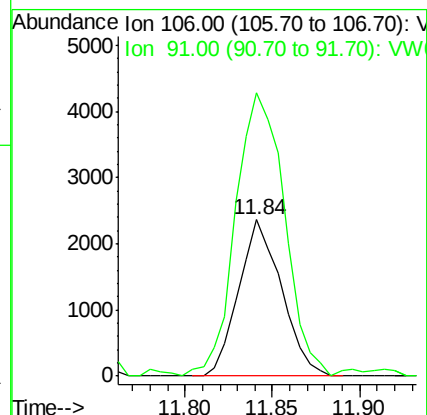
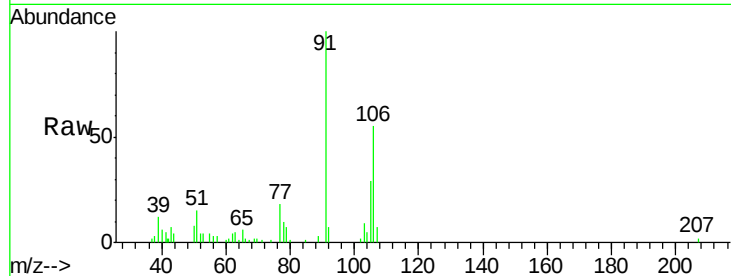




#68
m/p-Xylenes
Concen: 2.002 ug/l
RT: 11.84 min Scan# 1682
Delta R.T. -0.00 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

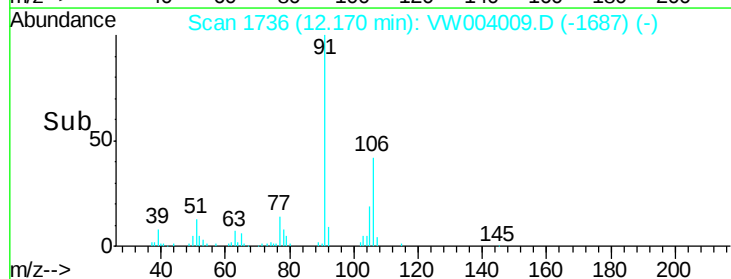
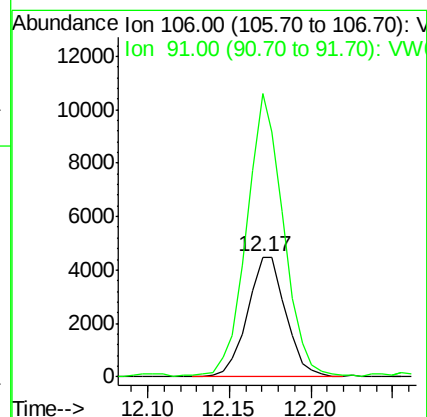
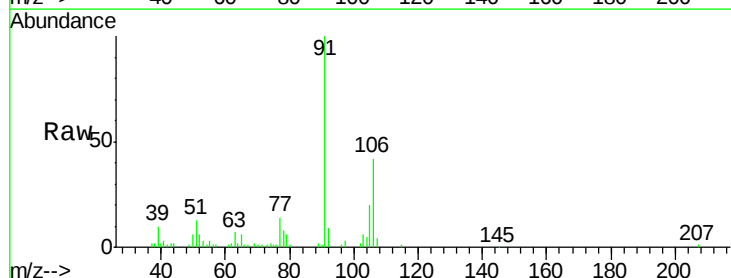
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-BRE

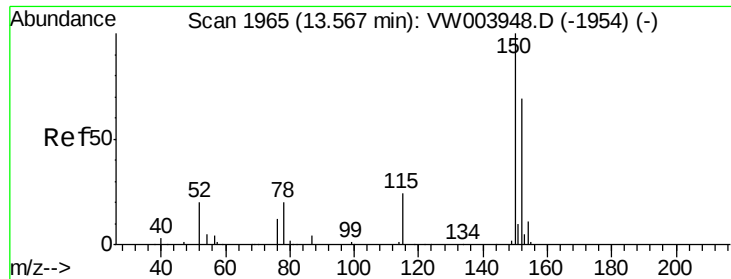
Tot Ion:106 Resp: 4037
Ion Ratio Lower Upper
106 100
91 206.7 164.2 246.2



#69
o-Xylene
Concen: 3.918 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

Tgt Ion:106 Resp: 7327
Ion Ratio Lower Upper
106 100
91 228.4 107.5 322.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

HR-05-071218-BRE

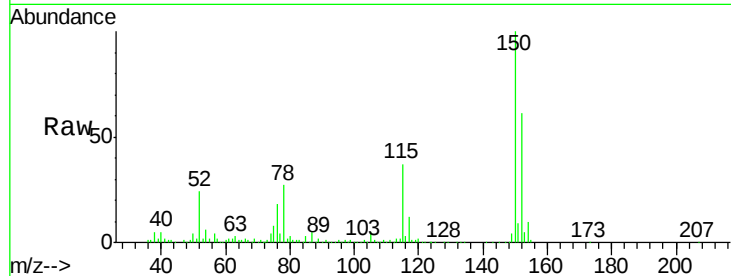
Tot Ion:152 Resp: 54736

Ion Ratio Lower Upper

152 100

115 77.2 29.2 87.6

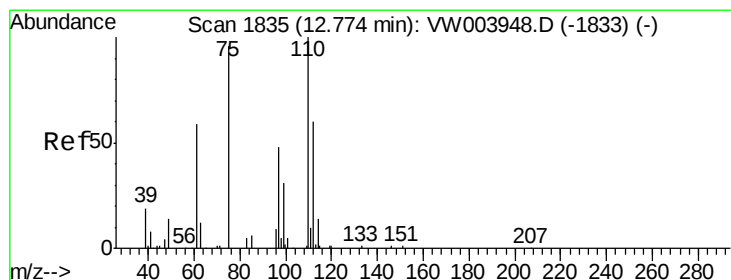
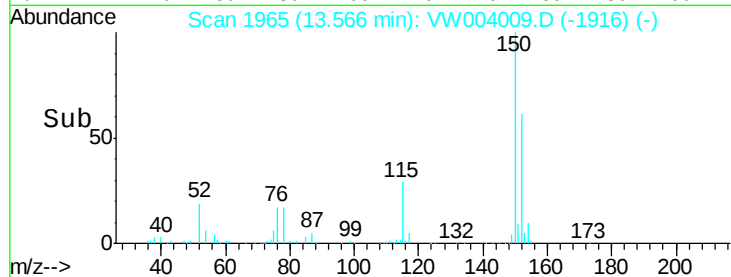
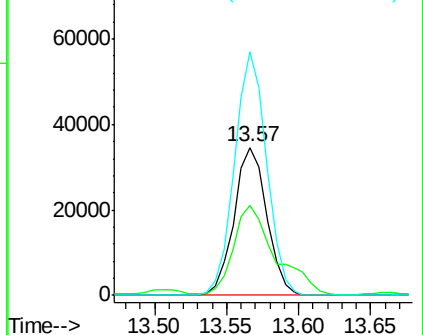
150 161.2 0.0 345.2



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: 64.827 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW004009.D

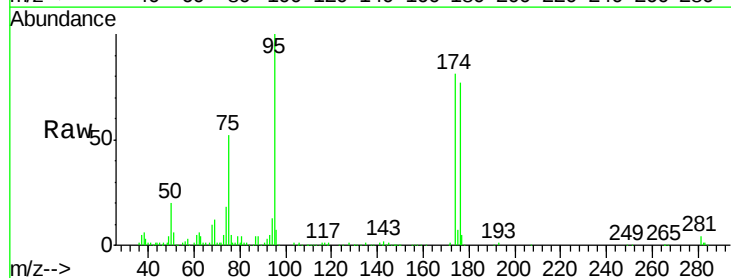
Acq: 18 Jul 2018 03:53

Tgt Ion: 75 Resp: 35227

Ion Ratio Lower Upper

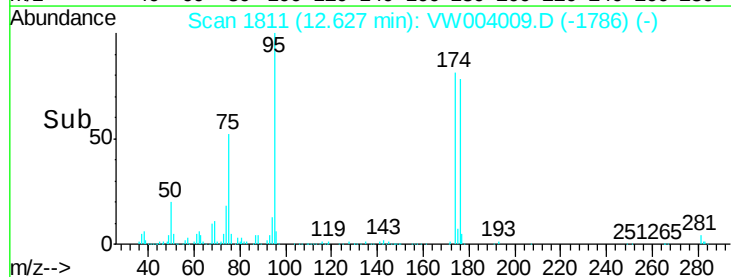
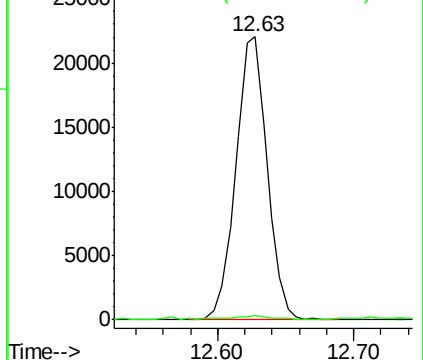
75 100

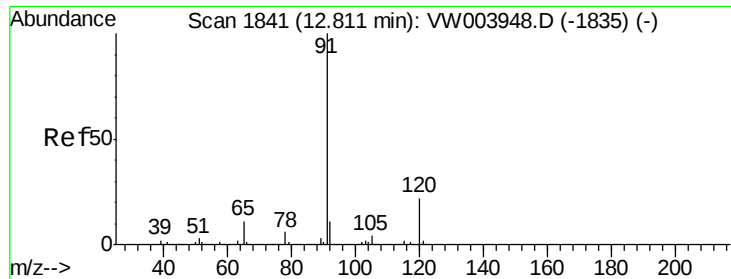
77 2.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

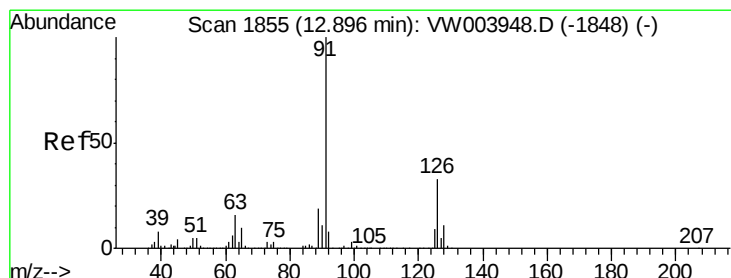
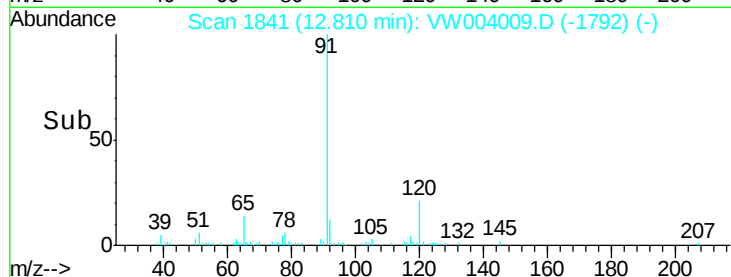
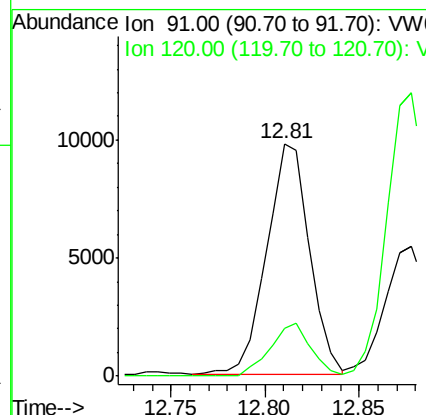
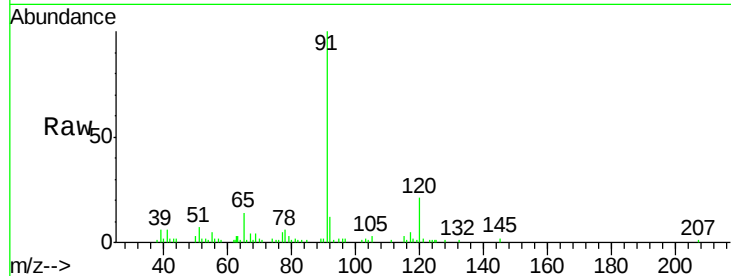




#78
n-propylbenzene
Concen: 3.219 ug/l
RT: 12.81 min Scan# 1841
Delta R.T. -0.00 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

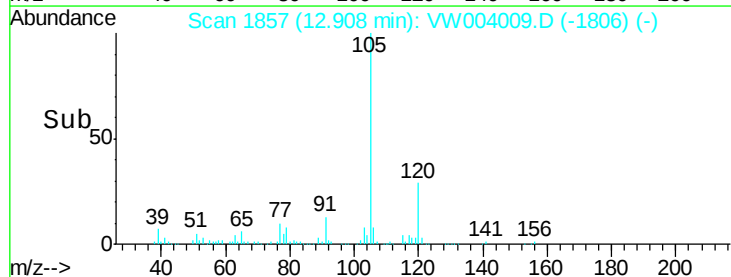
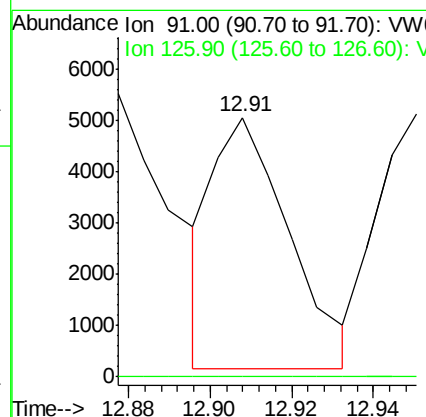
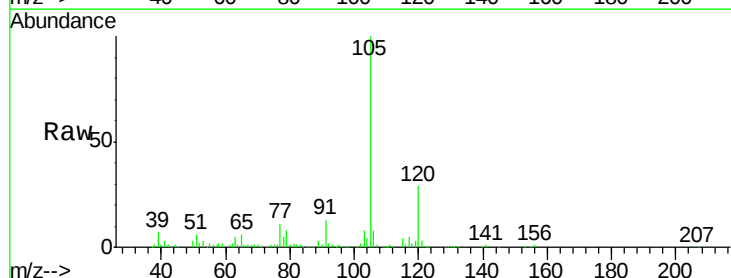
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-BRE

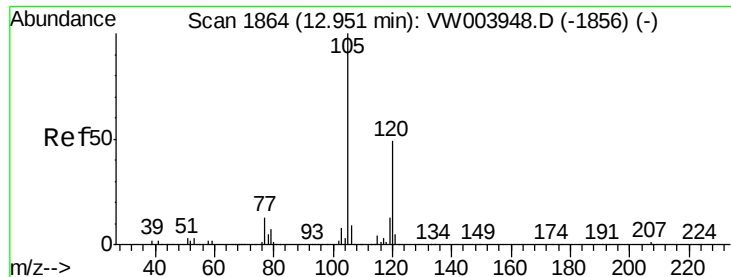
Tot Ion: 91 Resp: 15274
Ion Ratio Lower Upper
91 100
120 22.1 11.2 33.6



#79
2-Chlorotoluene
Concen: 2.373 ug/l
RT: 12.91 min Scan# 1857
Delta R.T. 0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

Tgt Ion: 91 Resp: 6350
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#





#80

1,3,5-Trimethylbenzene

Concen: 19.643 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

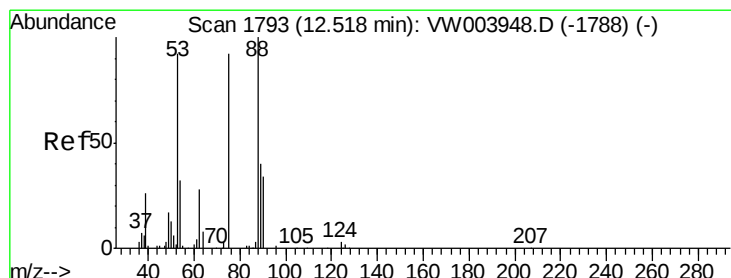
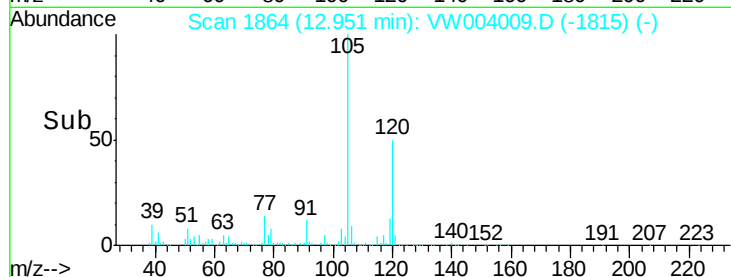
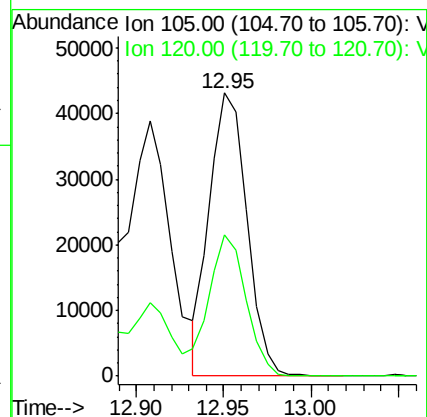
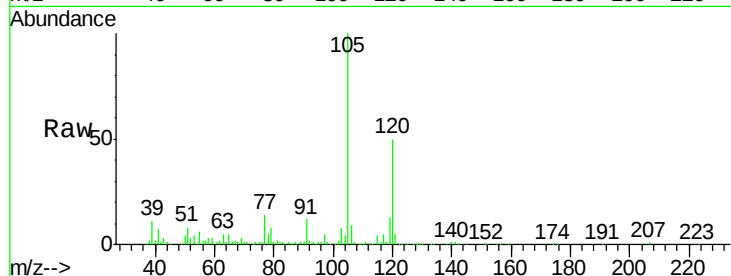
HR-05-071218-BRE

Tot Ion:105 Resp: 63935

Ion Ratio Lower Upper

105 100

120 50.9 24.4 73.2



#81

trans-1,4-Dichloro-2-butene

Concen: 143.395 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.11 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

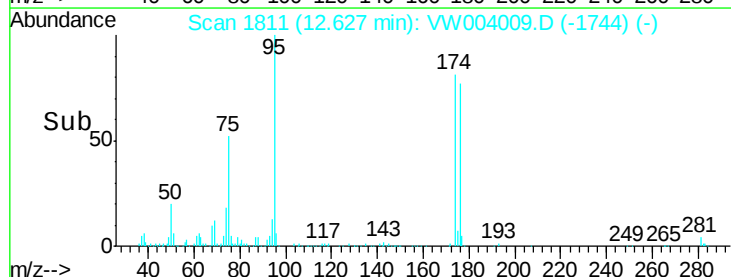
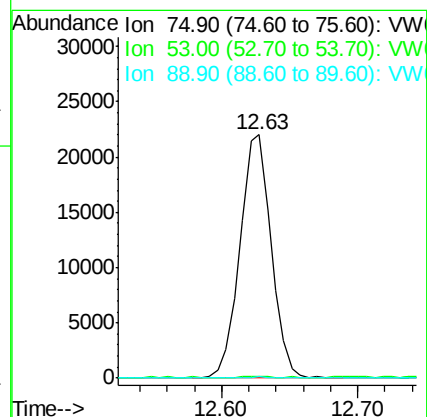
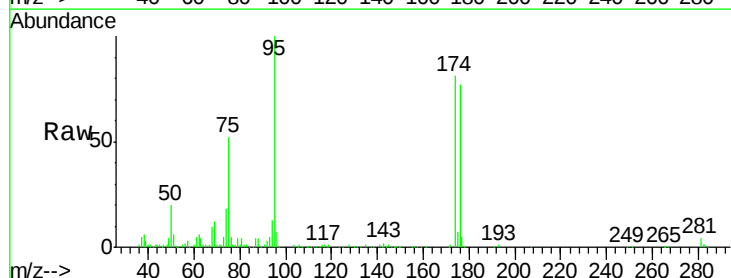
Tgt Ion: 75 Resp: 35227

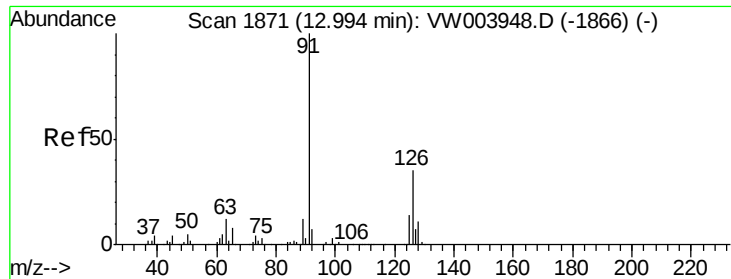
Ion Ratio Lower Upper

75 100

53 0.7 77.6 116.4#

89 0.2 36.6 54.8#

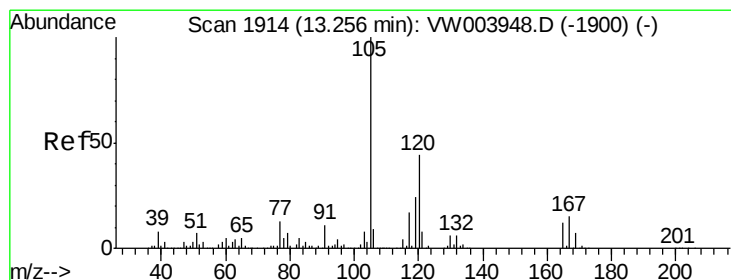
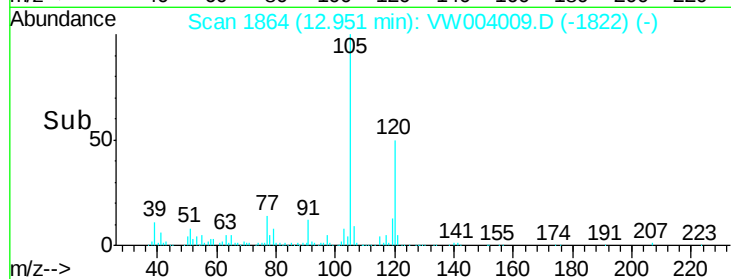
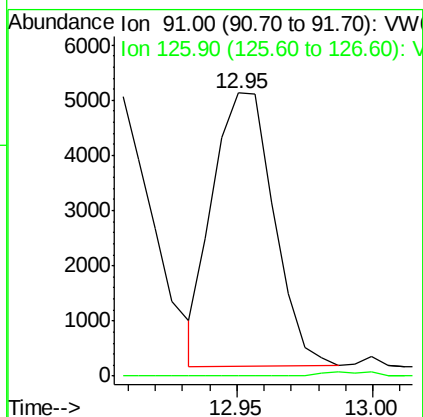
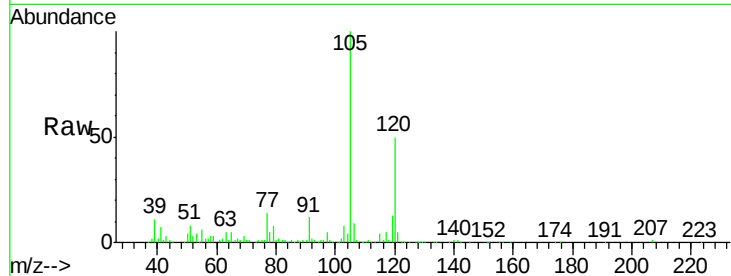




#82
4-Chlorotoluene
Concen: 2.689 ug/l
RT: 12.95 min Scan# 1864
Delta R.T. -0.04 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

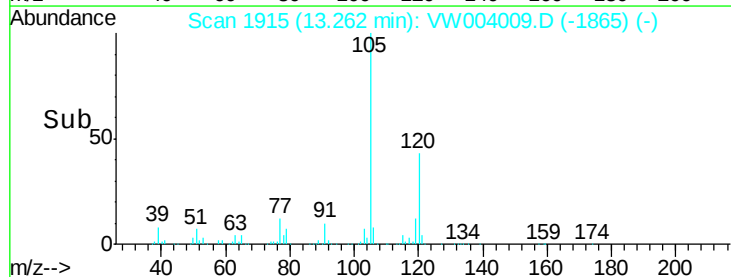
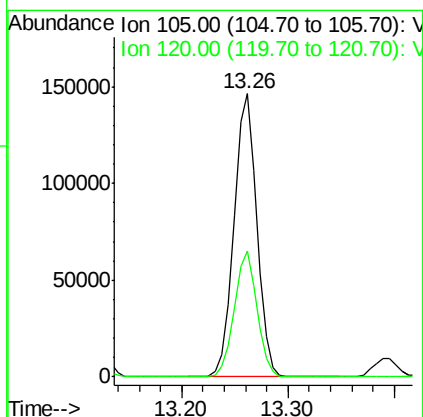
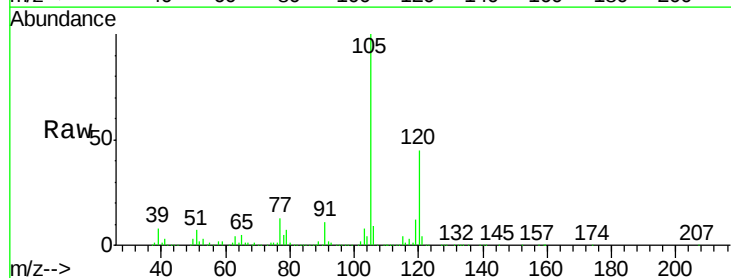
Instrument :
MSVOA_W
ClientSampleId :
HR-05-071218-BRE

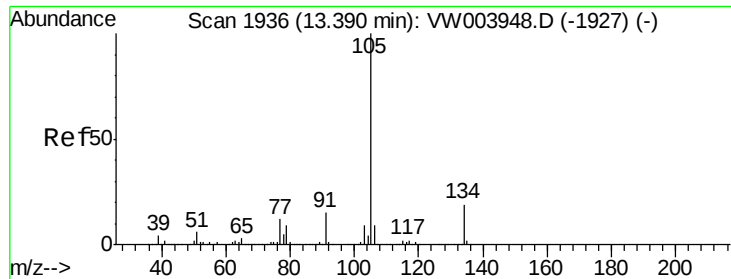
Tot Ion: 91 Resp: 7722
Ion Ratio Lower Upper
91 100
126 0.0 16.7 50.0#



#84
1,2,4-Trimethylbenzene
Concen: 65.629 ug/l
RT: 13.26 min Scan# 1915
Delta R.T. 0.01 min
Lab File: VW004009.D
Acq: 18 Jul 2018 03:53

Tgt Ion: 105 Resp: 219778
Ion Ratio Lower Upper
105 100
120 44.5 22.1 66.1

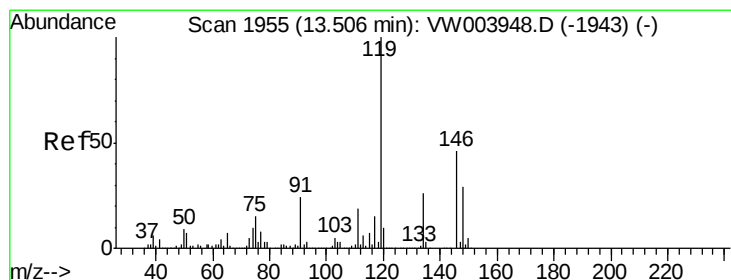
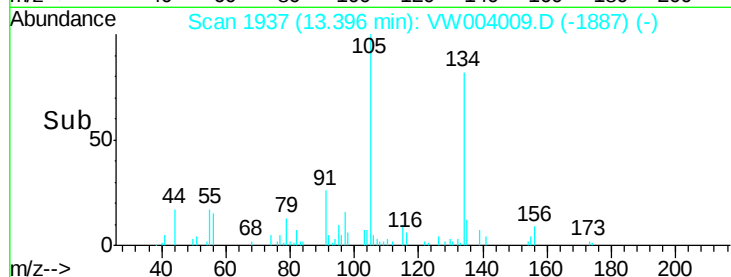
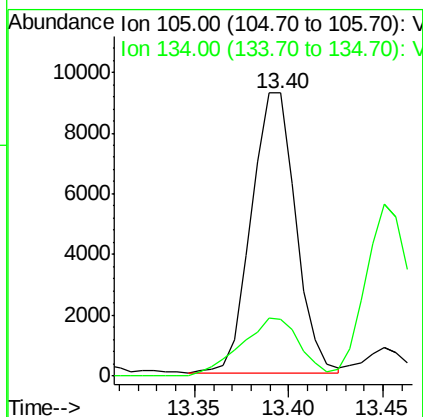
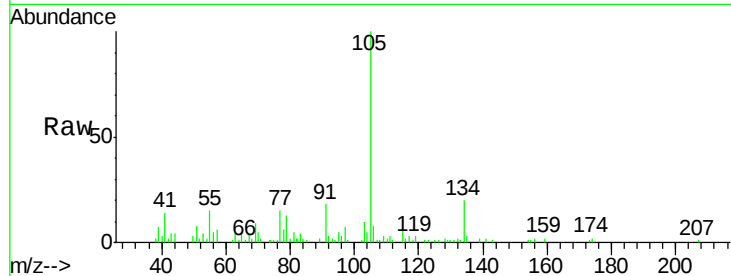




#85
 sec-Butylbenzene
 Concen: 3.736 ug/l
 RT: 13.40 min Scan# 1937
 Delta R.T. 0.01 min
 Lab File: VW004009.D
 Acq: 18 Jul 2018 03:53

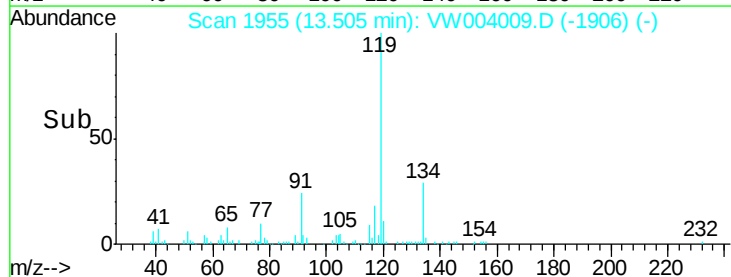
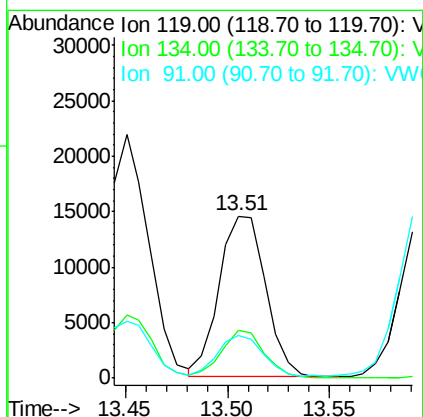
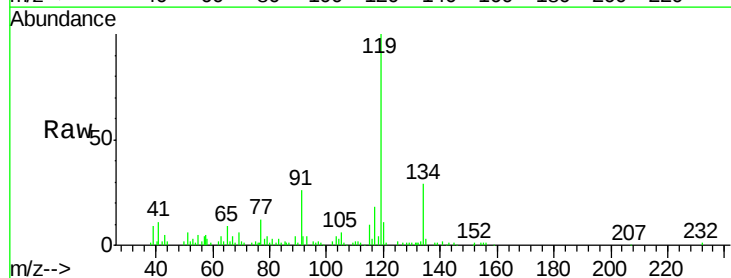
Instrument :
 MSVOA_W
 ClientSampleId :
 HR-05-071218-BRE

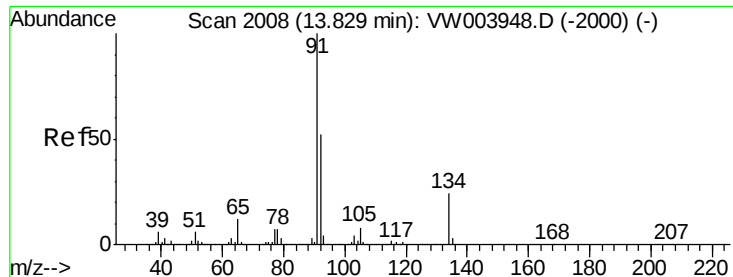
Tot Ion:105 Resp: 15147
 Ion Ratio Lower Upper
 105 100
 134 27.0 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 6.430 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW004009.D
 Acq: 18 Jul 2018 03:53

Tgt Ion:119 Resp: 22870
 Ion Ratio Lower Upper
 119 100
 134 27.4 13.0 38.9
 91 24.4 11.8 35.3





#89

n-Butylbenzene

Concen: 6.742 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. 0.01 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

HR-05-071218-BRE

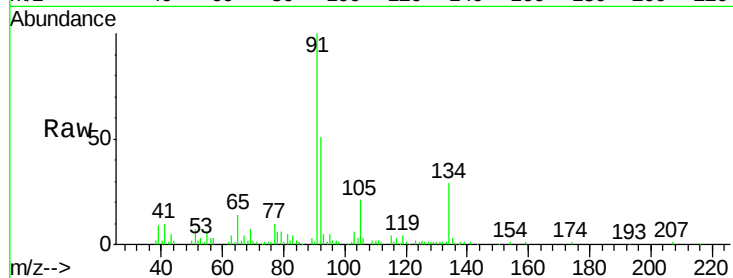
Tot Ion: 91 Resp: 23573

Ion Ratio Lower Upper

91 100

92 64.7 26.1 78.3

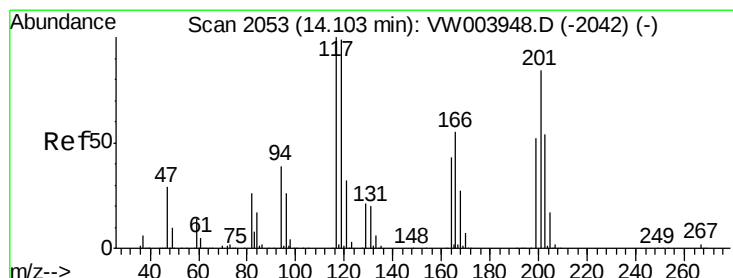
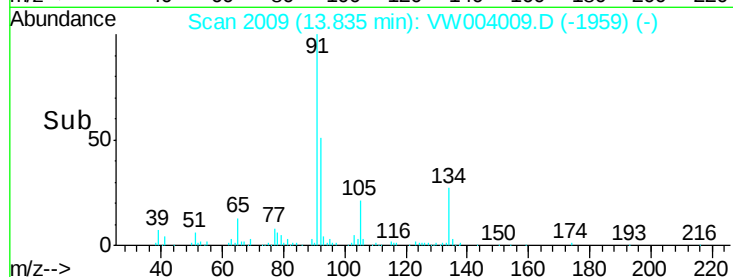
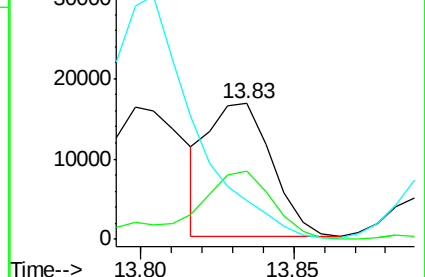
134 0.0 12.4 37.4#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 25.258 ug/l

RT: 14.11 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VW004009.D

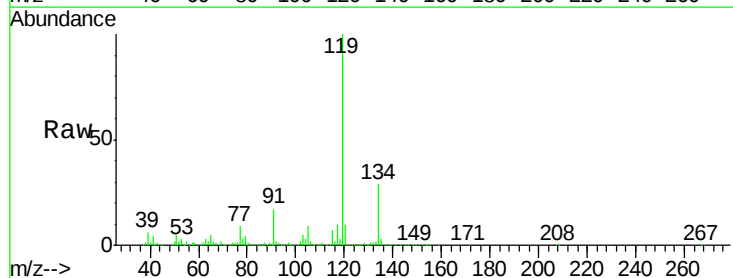
Acq: 18 Jul 2018 03:53

Tgt Ion: 117 Resp: 16559

Ion Ratio Lower Upper

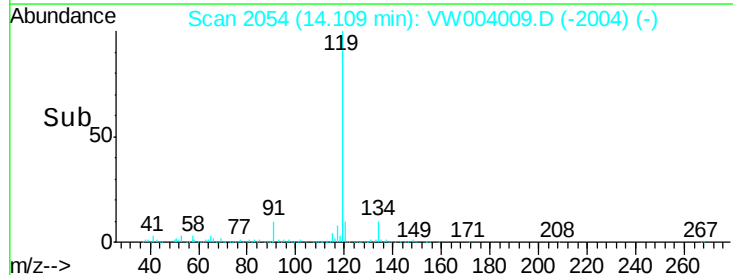
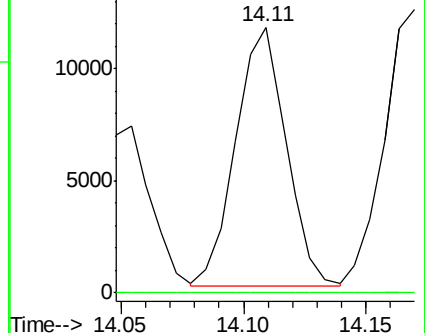
117 100

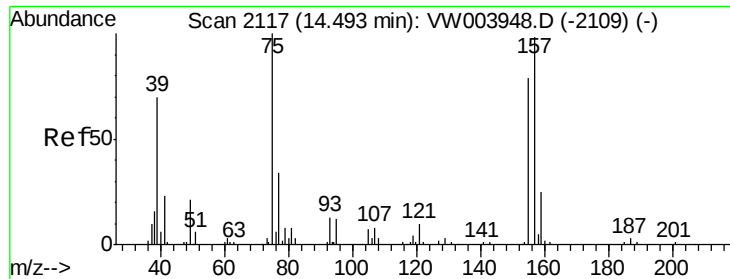
201 0.0 40.3 120.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.977 ug/l

RT: 14.51 min Scan# 2120

Delta R.T. 0.02 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Instrument :

MSVOA_W

ClientSampleId :

HR-05-071218-BRE

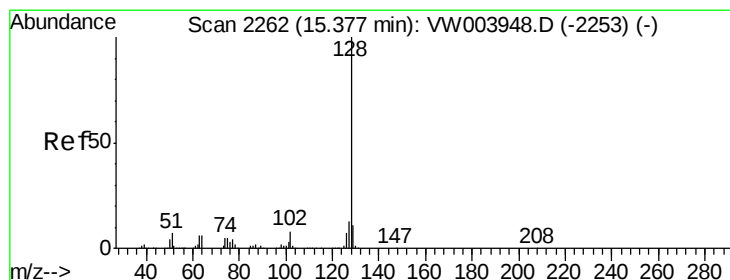
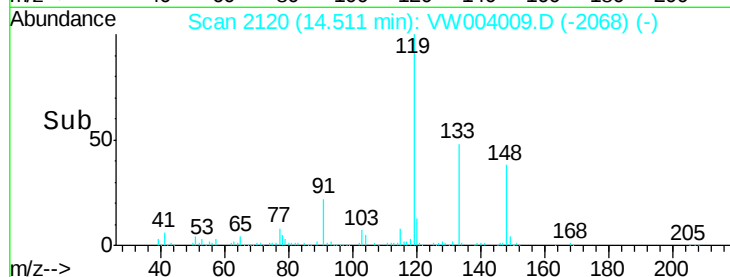
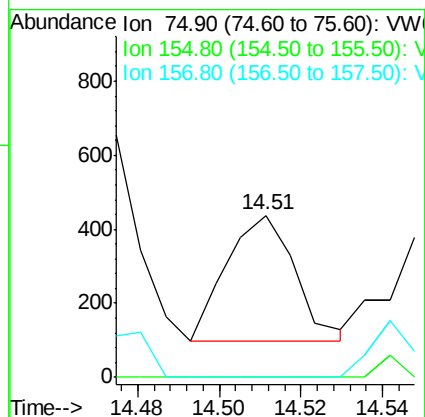
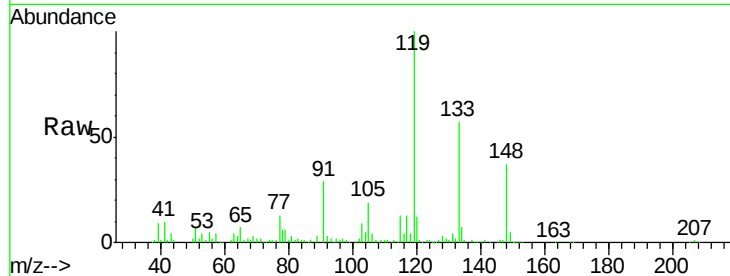
Tot Ion: 75 Resp: 396

Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

157 0.0 51.8 155.4#



#95

Naphthalene

Concen: 7.857 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. -0.00 min

Lab File: VW004009.D

Acq: 18 Jul 2018 03:53

Tgt Ion: 128 Resp: 16774

Ion Ratio Lower Upper

128 100

127 13.6 10.7 16.1

129 8.7 8.7 13.1#

