

Data Path : W:\HPCHEM1\MSVOA_W\DATA\VW012418\
 Data File : VW000984.D
 Acq On : 25 Jan 2018 06:58
 Operator : JC/SY
 Sample : J1289-15
 Misc : 5.03G/5.0ML/MSVOA_W/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-52-13.5-14.0

Quant Time: Jan 25 07:41:25 2018
 Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W012318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 23 13:31:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	177145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	267804	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	228902	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	94582	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	107820	63.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.00%	
35) Dibromofluoromethane	7.89	113	98838	60.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.50%	
50) Toluene-d8	10.34	98	315697	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
62) 4-Bromofluorobenzene	12.63	95	105066	44.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.22%	

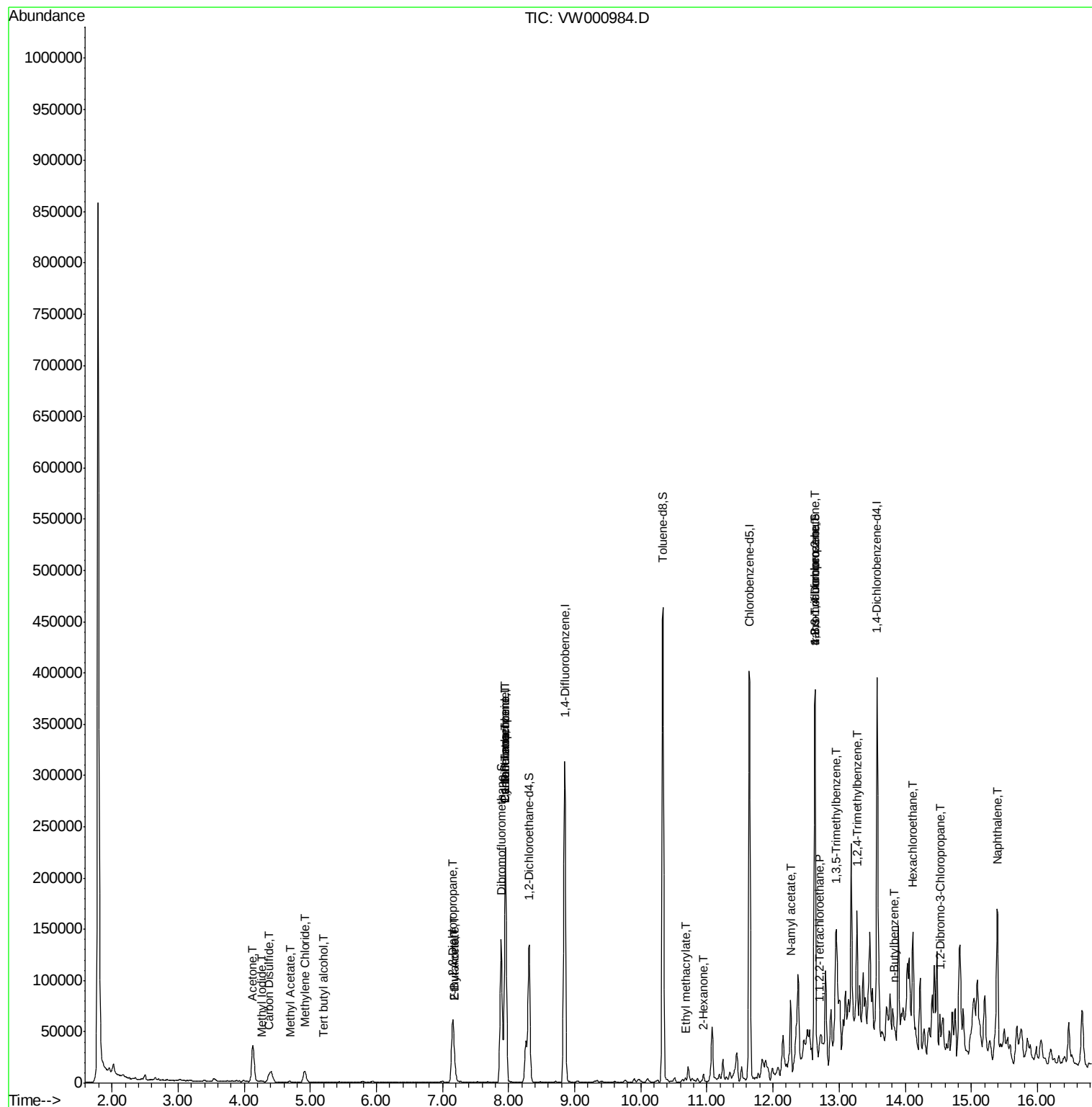
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.26	142	406	5.06	ug/l #	78
11) Tert butyl alcohol	5.20	59	483	2.62	ug/l #	76
16) Acetone	4.13	43	59459	93.54	ug/l	97
17) Carbon Disulfide	4.37	76	12697	2.68	ug/l	98
18) Methyl Acetate	4.70	43	1339	1.07	ug/l #	49
20) Methylene Chloride	4.92	84	8343	2.61	ug/l #	87
25) 2-Butanone	7.18	43	16549	22.03	ug/l	95
26) 2,2-Dichloropropane	7.15	77	3939	1.45	ug/l #	52
31) Cyclohexane	7.95	56	3568	1.29	ug/l #	22
36) 1,1-Dichloropropene	7.95	75	13530	5.30	ug/l #	51
37) Ethyl Acetate	7.18	43	16549	11.47	ug/l #	67
38) Carbon Tetrachloride	7.95	117	16983	6.02	ug/l #	16
56) Ethyl methacrylate	10.68	69	367	3.42	ug/l #	1
59) 2-Hexanone	10.95	43	3147	17.07	ug/l #	29
74) N-amyl acetate	12.27	43	14545	9.80	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	12.70	83	2158	1.65	ug/l #	26
76) 1,2,3-Trichloropropane	12.63	75	53082	48.50	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	12998	2.50	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.63	75	53082	115.18	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.27	105	67091	12.76	ug/l	98
89) n-Butylbenzene	13.84	91	5646	1.03	ug/l #	78
90) Hexachloroethane	14.12	117	4952	4.57	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.52	75	342	1.19	ug/l #	1
95) Naphthalene	15.39	128	125128	28.63	ug/l	99

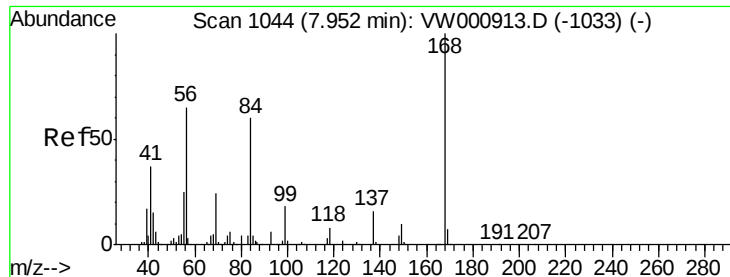
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W012318S.M
Quant Title : SW846 8260
QLast Update : Tue Jan 23 13:31:00 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampleId :

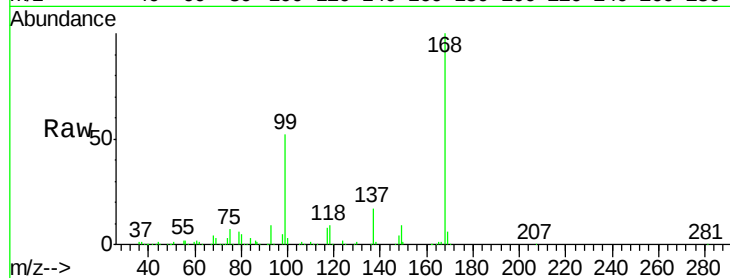
SB-52-13.5-14.0

Tgt Ion:168 Resp: 177145

Ion Ratio Lower Upper

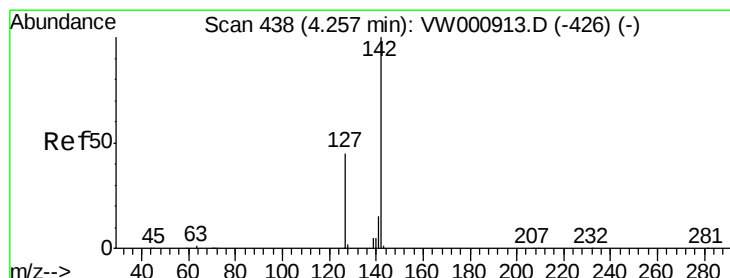
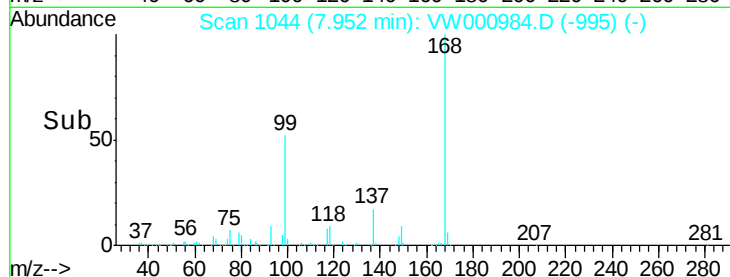
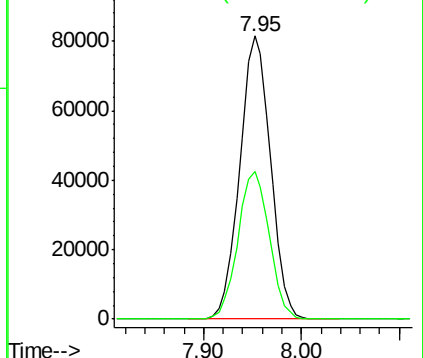
168 100

99 52.1 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#10

Methyl Iodide

Concen: 5.06 ug/l

RT: 4.26 min Scan# 439

Delta R.T. 0.01 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

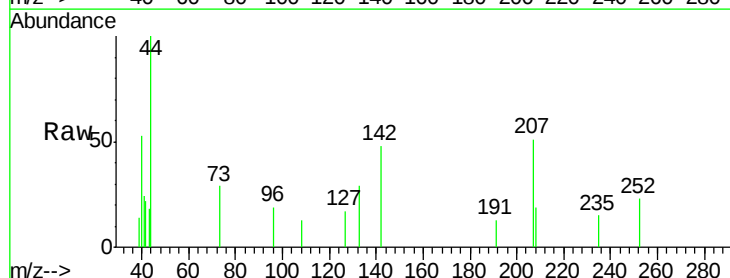
Tgt Ion:142 Resp: 406

Ion Ratio Lower Upper

142 100

127 32.8 35.5 53.3#

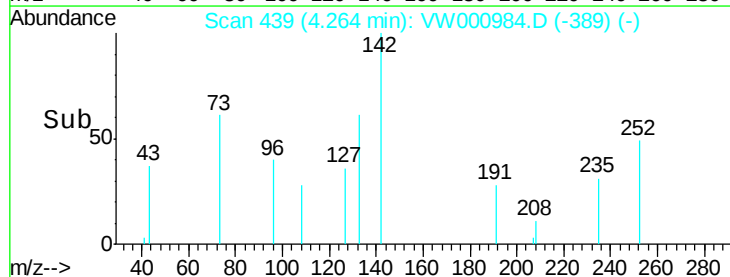
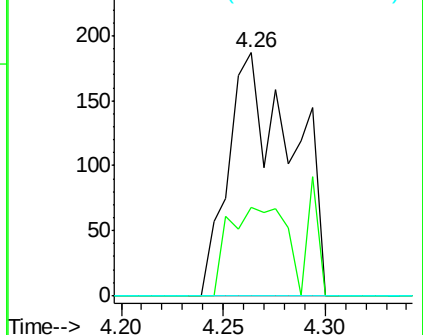
141 0.0 11.7 17.5#

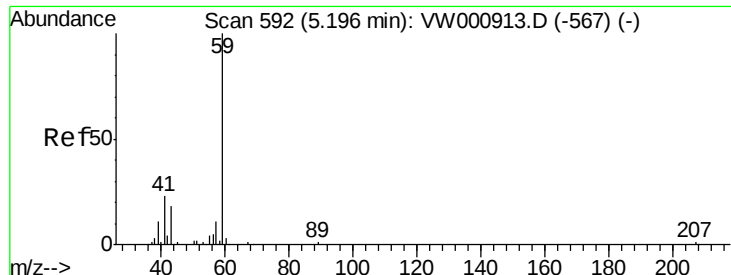


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

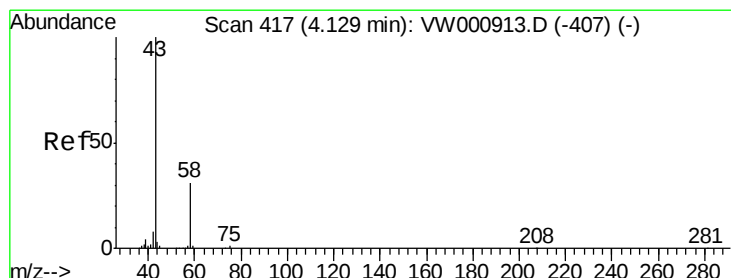
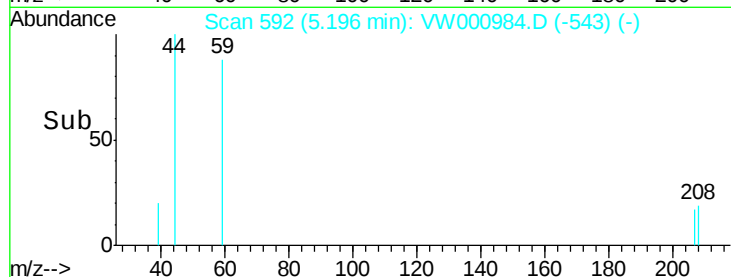
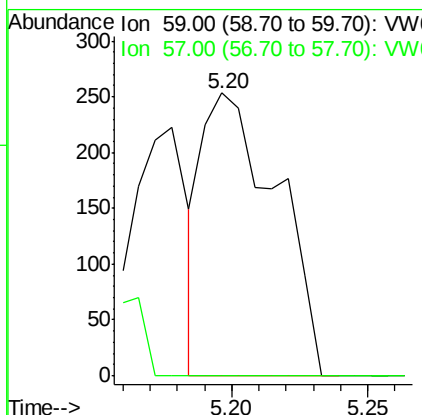
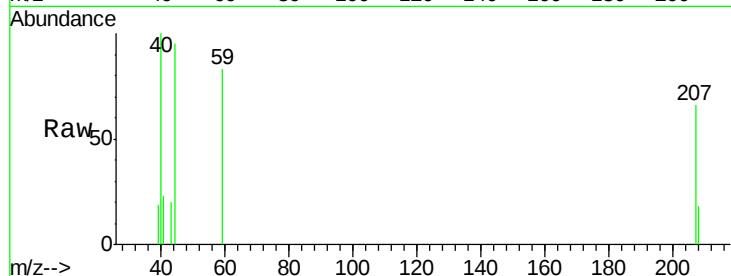




#11
Tert butyl alcohol
Concen: 2.62 ug/l
RT: 5.20 min Scan# 592
Delta R.T. 0.00 min
Lab File: VW000984.D
Acq: 25 Jan 2018 06:58

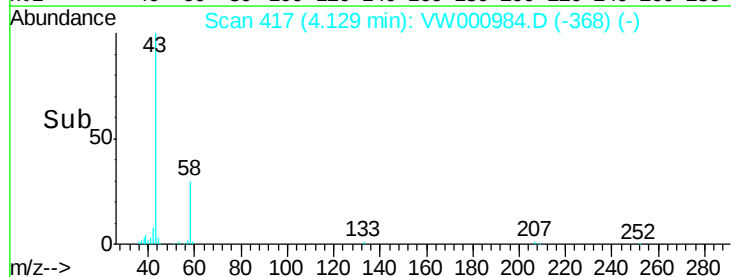
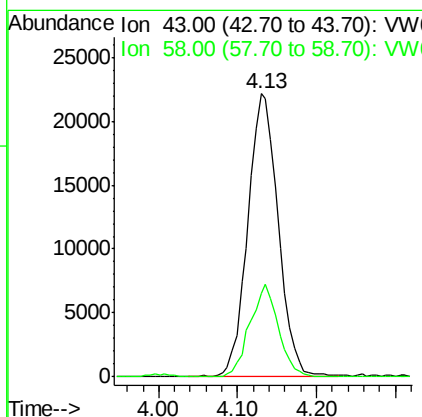
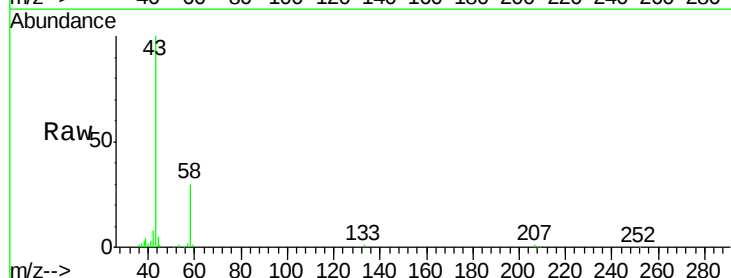
Instrument :
MSVOA_W
ClientSampleId :
SB-52-13.5-14.0

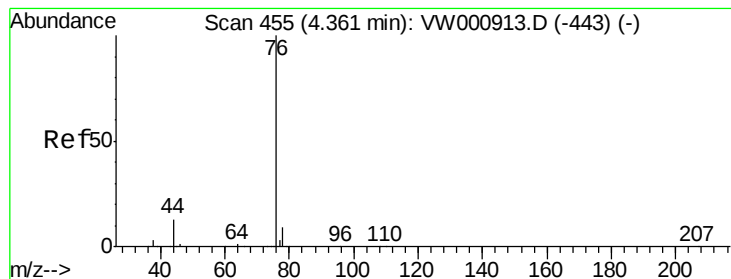
Tgt Ion: 59 Resp: 483
Ion Ratio Lower Upper
59 100
57 0.0 7.0 10.6#



#16
Acetone
Concen: 93.54 ug/l
RT: 4.13 min Scan# 417
Delta R.T. 0.00 min
Lab File: VW000984.D
Acq: 25 Jan 2018 06:58

Tgt Ion: 43 Resp: 59459
Ion Ratio Lower Upper
43 100
58 29.6 24.9 37.3





#17

Carbon Disulfide

Concen: 2.68 ug/l

RT: 4.37 min Scan# 457

Delta R.T. 0.01 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampleId :

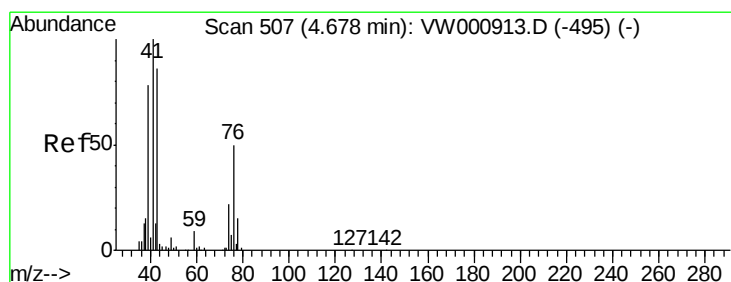
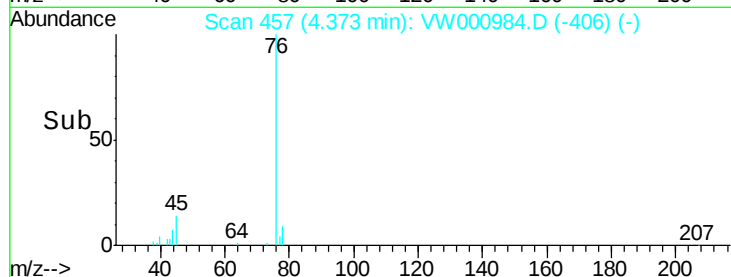
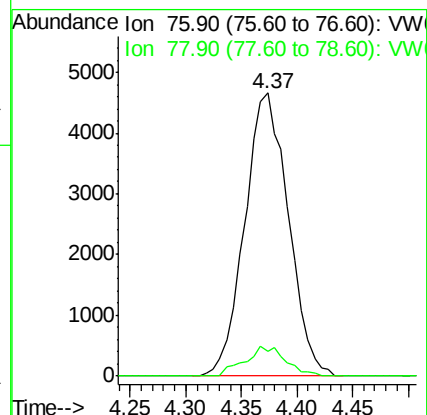
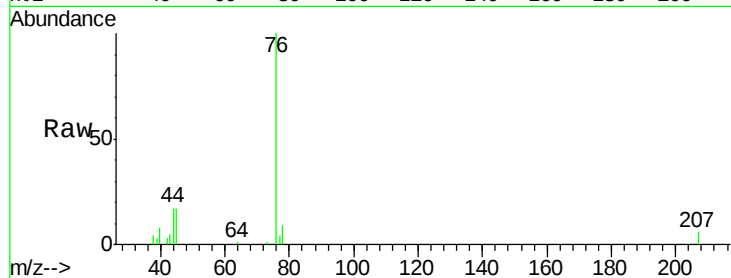
SB-52-13.5-14.0

Tgt Ion: 76 Resp: 12697

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.2



#18

Methyl Acetate

Concen: 1.07 ug/l

RT: 4.70 min Scan# 510

Delta R.T. 0.02 min

Lab File: VW000984.D

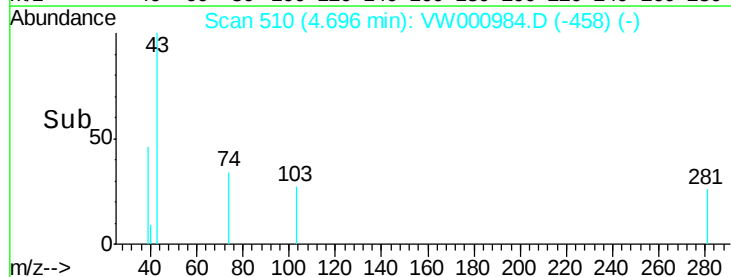
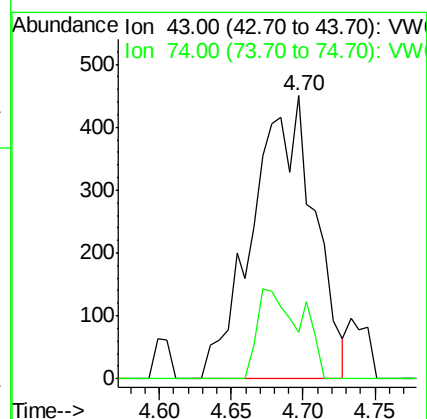
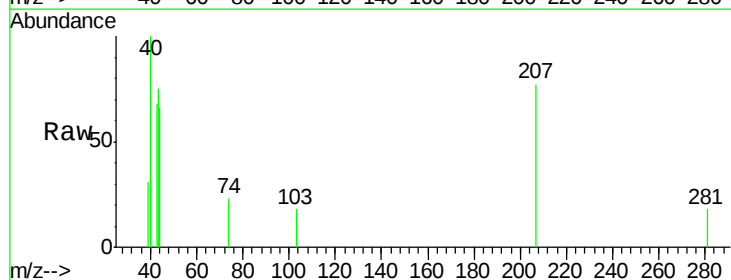
Acq: 25 Jan 2018 06:58

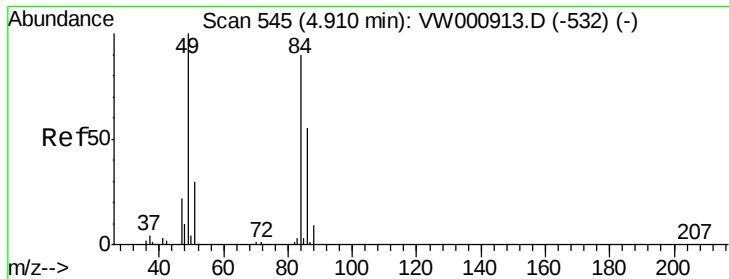
Tgt Ion: 43 Resp: 1339

Ion Ratio Lower Upper

43 100

74 0.0 20.5 30.7#

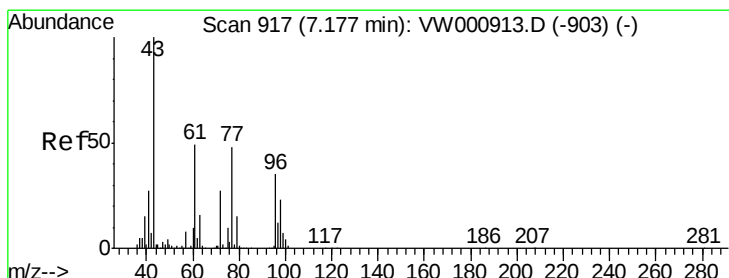
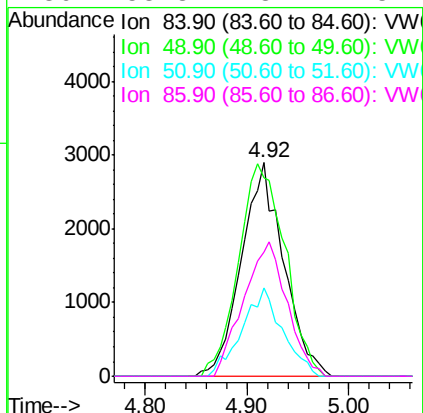
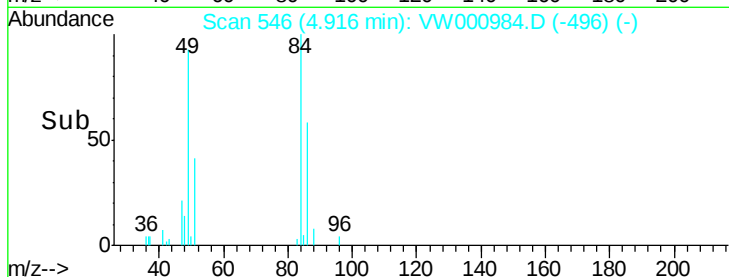
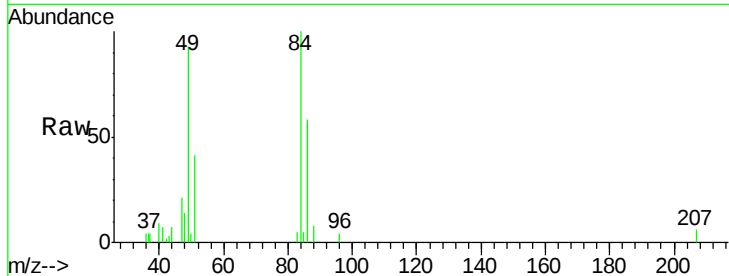




#20
Methylene Chloride
Concen: 2.61 ug/l
RT: 4.92 min Scan# 546
Delta R.T. 0.01 min
Lab File: VW000984.D
Acq: 25 Jan 2018 06:58

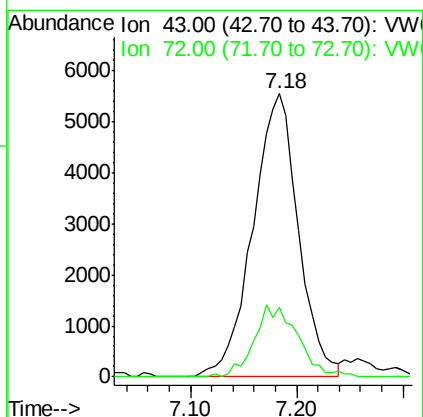
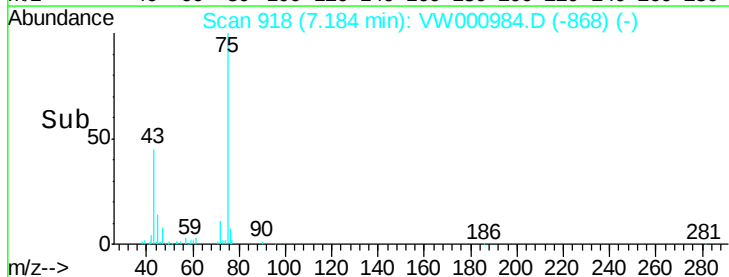
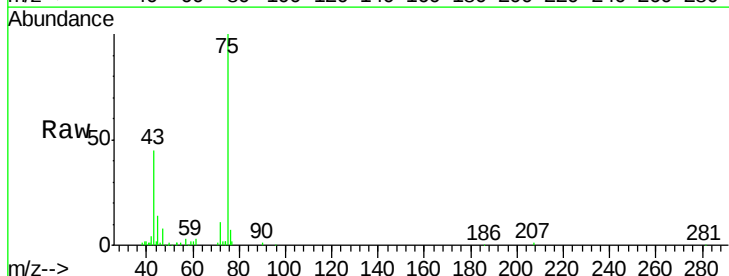
Instrument :
MSVOA_W
ClientSampleId :
SB-52-13.5-14.0

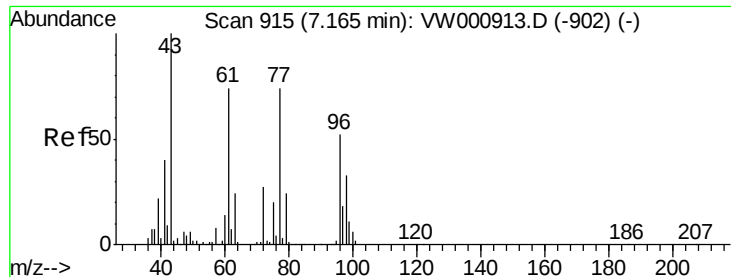
Tgt Ion: 84 Resp: 8343
Ion Ratio Lower Upper
84 100
49 92.8 89.0 133.4
51 41.1 26.7 40.1#
86 58.3 48.7 73.1



#25
2-Butanone
Concen: 22.03 ug/l
RT: 7.18 min Scan# 918
Delta R.T. 0.01 min
Lab File: VW000984.D
Acq: 25 Jan 2018 06:58

Tgt Ion: 43 Resp: 16549
Ion Ratio Lower Upper
43 100
72 24.6 21.5 32.3





#26

2,2-Dichloropropane

Concen: 1.45 ug/l

RT: 7.15 min Scan# 912

Delta R.T. -0.02 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampleId :

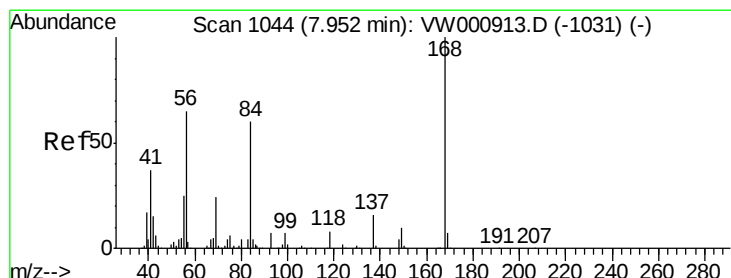
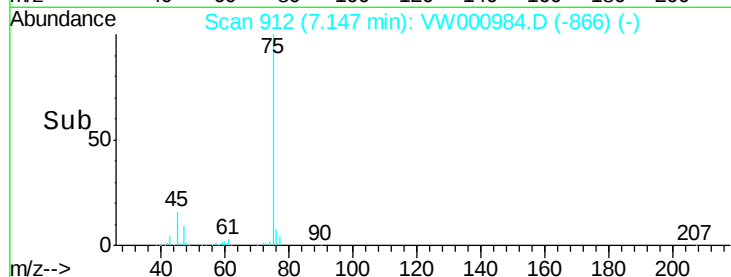
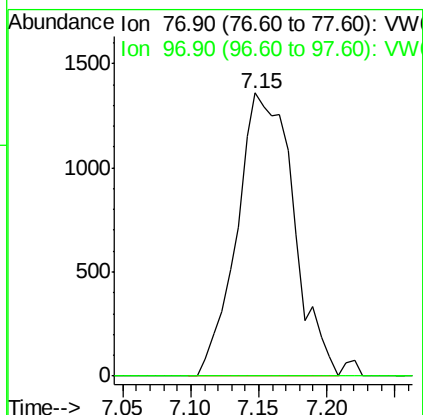
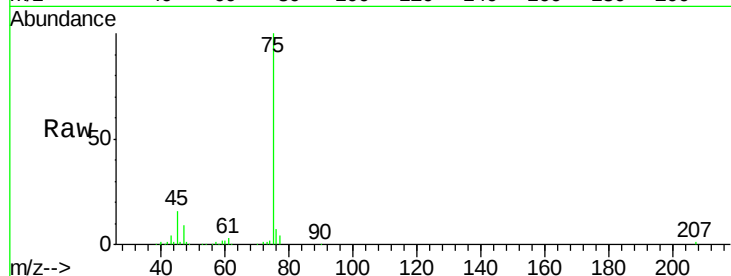
SB-52-13.5-14.0

Tgt Ion: 77 Resp: 3939

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.3#



#31

Cyclohexane

Concen: 1.29 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

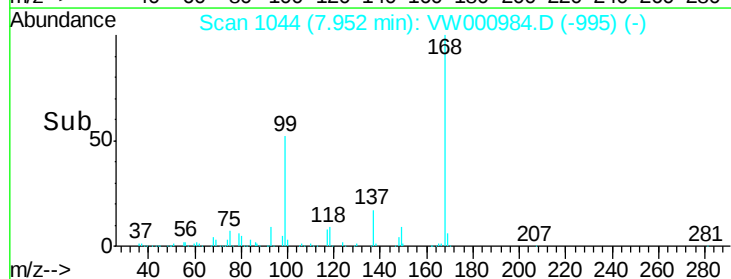
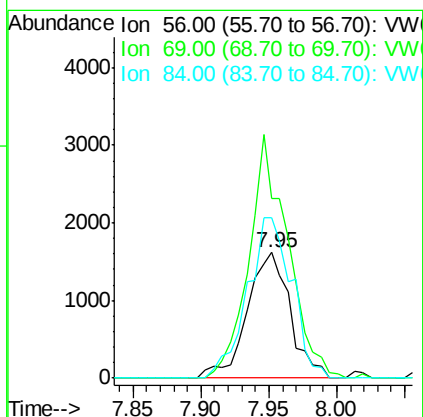
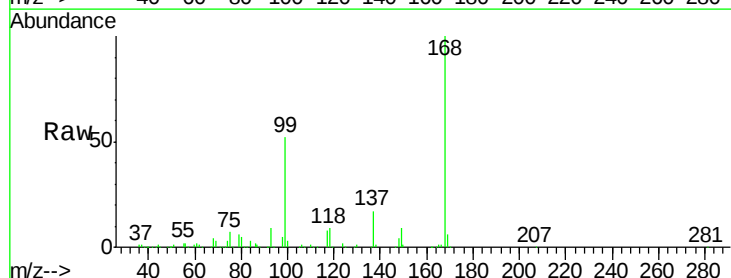
Tgt Ion: 56 Resp: 3568

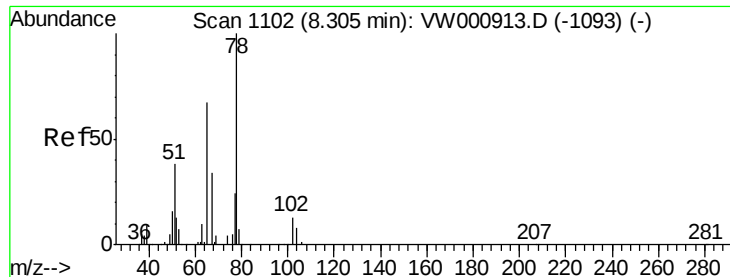
Ion Ratio Lower Upper

56 100

69 142.8 29.2 43.8#

84 127.6 73.6 110.4#

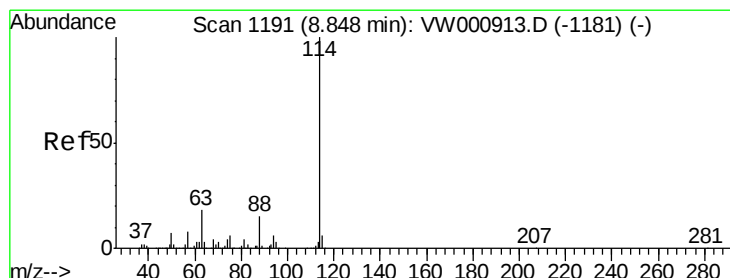
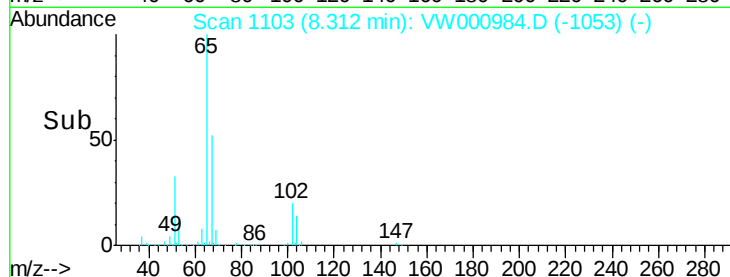
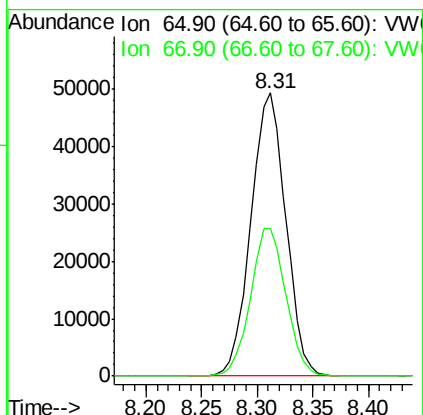
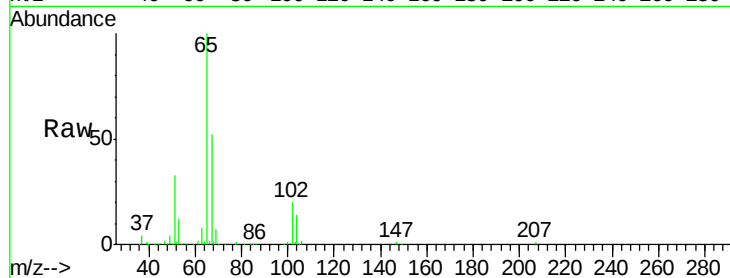




#33
 1,2-Dichloroethane-d4
 Concen: 63.50 ug/l
 RT: 8.31 min Scan# 1103
 Delta R.T. 0.01 min
 Lab File: VW000984.D
 Acq: 25 Jan 2018 06:58

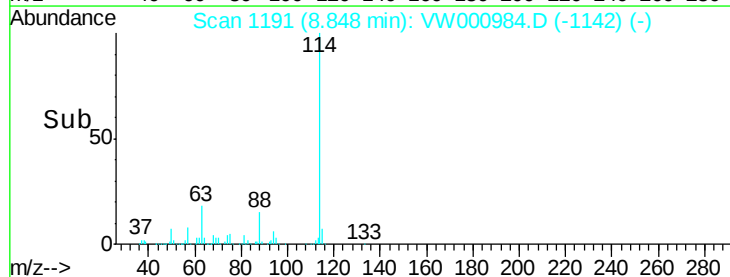
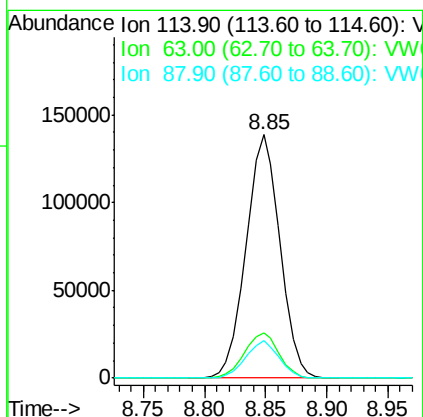
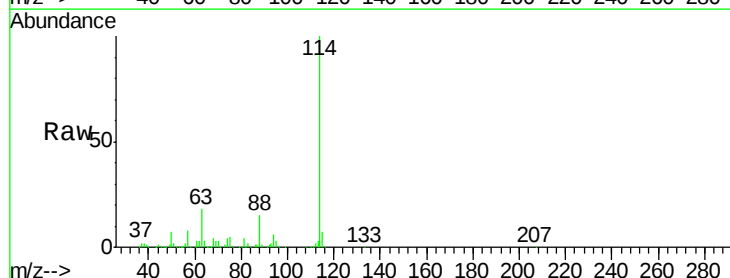
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 SB-52-13.5-14.0

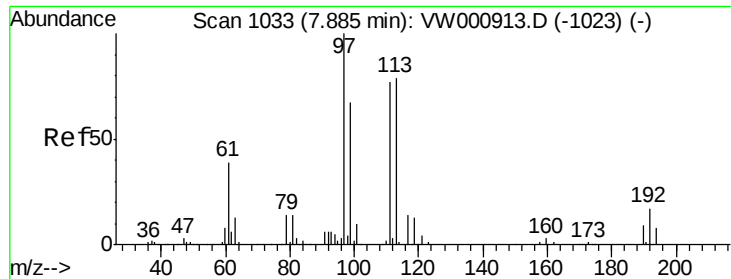
Tgt Ion: 65 Resp: 107820
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW000984.D
 Acq: 25 Jan 2018 06:58

Tgt Ion: 114 Resp: 267804
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.8
 88 15.2 0.0 29.8

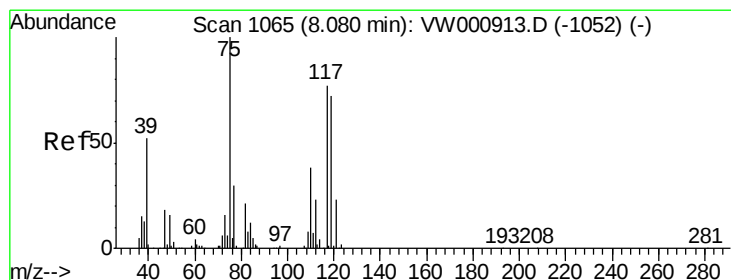
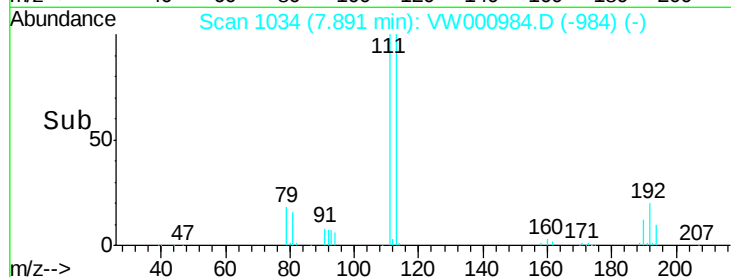
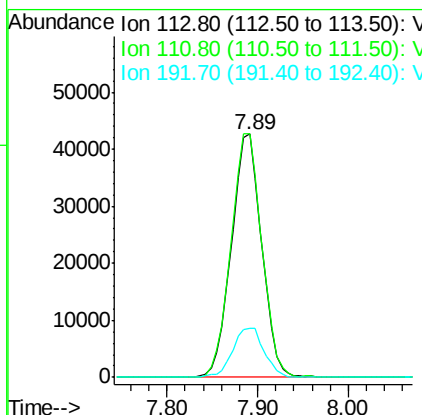
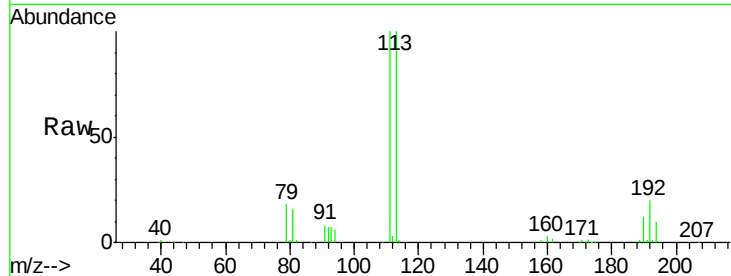




#35
 Dibromofluoromethane
 Concen: 60.25 ug/l
 RT: 7.89 min Scan# 1034
 Delta R.T. 0.01 min
 Lab File: VW000984.D
 Acq: 25 Jan 2018 06:58

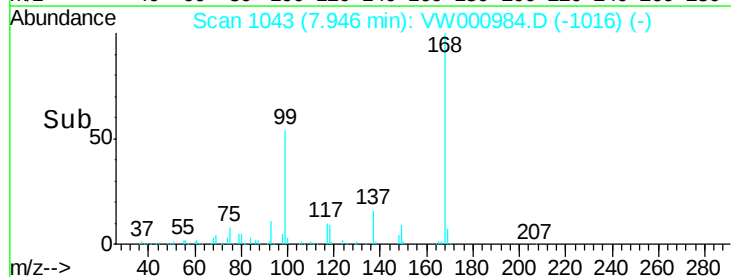
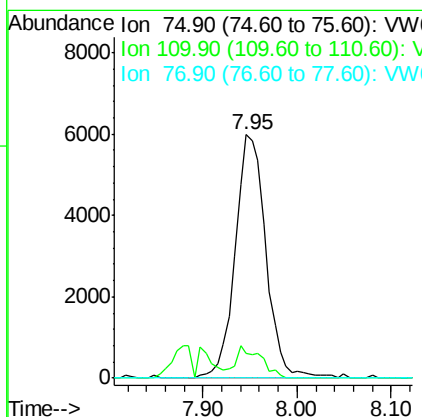
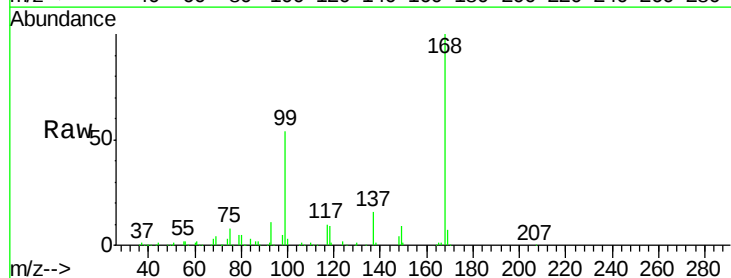
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 SB-52-13.5-14.0

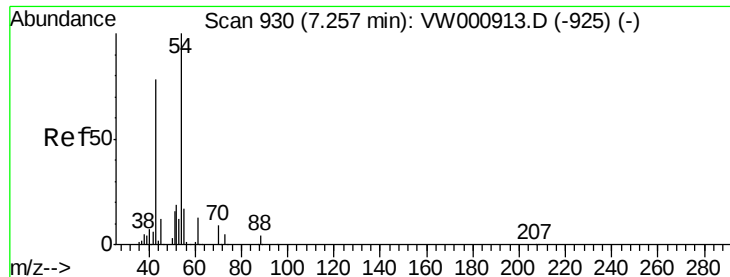
Tgt Ion:113 Resp: 98838
 Ion Ratio Lower Upper
 113 100
 111 101.7 80.4 120.6
 192 21.1 17.0 25.4



#36
 1,1-Dichloropropene
 Concen: 5.30 ug/l
 RT: 7.95 min Scan# 1043
 Delta R.T. -0.13 min
 Lab File: VW000984.D
 Acq: 25 Jan 2018 06:58

Tgt Ion: 75 Resp: 13530
 Ion Ratio Lower Upper
 75 100
 110 11.0 18.6 56.0#
 77 0.0 24.6 36.8#





#37

Ethyl Acetate

Concen: 11.47 ug/l

RT: 7.18 min Scan# 918

Delta R.T. -0.07 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampled :

SB-52-13.5-14.0

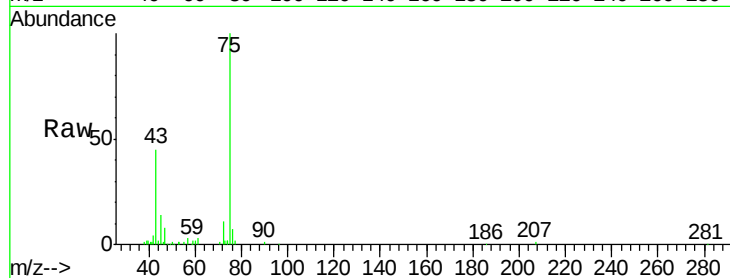
Tgt Ion: 43 Resp: 16549

Ion Ratio Lower Upper

43 100

61 0.0 12.1 18.1#

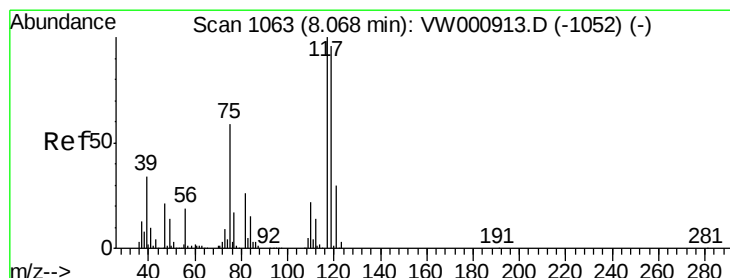
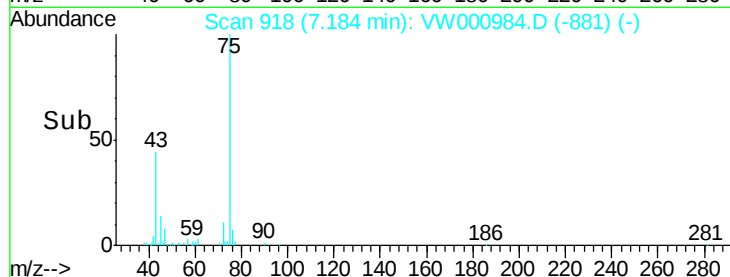
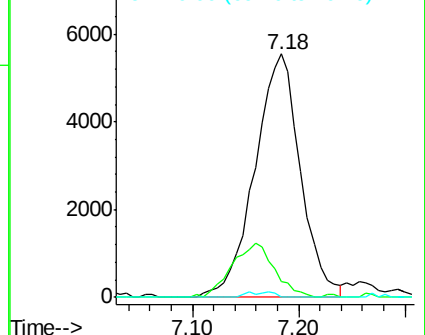
70 0.0 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 6.02 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

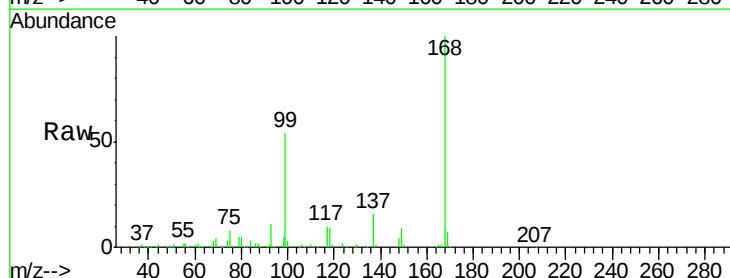
Tgt Ion: 117 Resp: 16983

Ion Ratio Lower Upper

117 100

119 5.3 76.5 114.7#

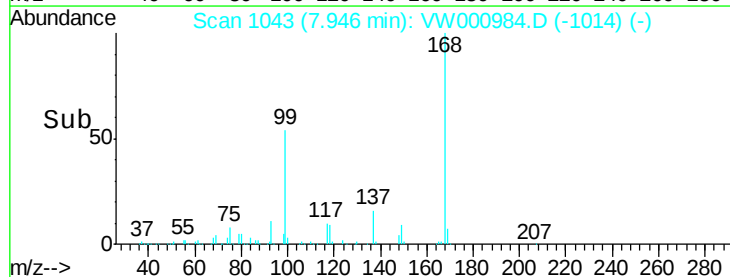
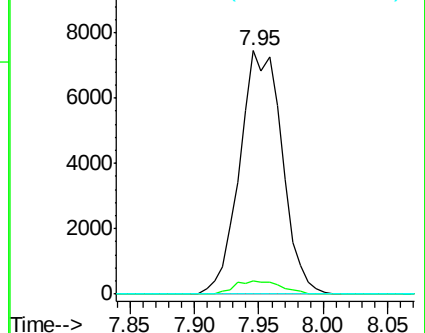
121 0.0 24.3 36.5#

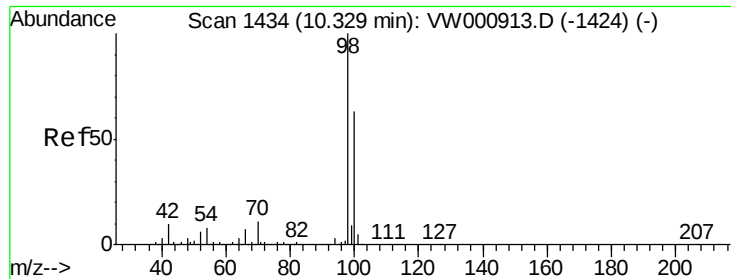


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 48.81 ug/l

RT: 10.34 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampleId :

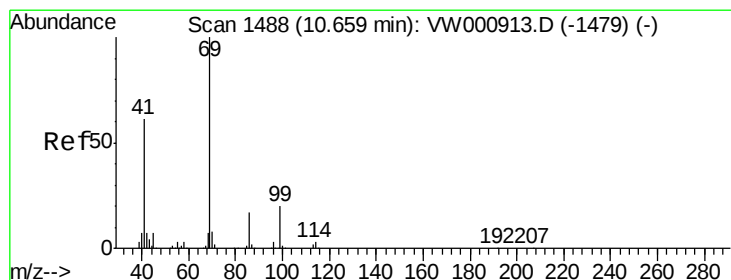
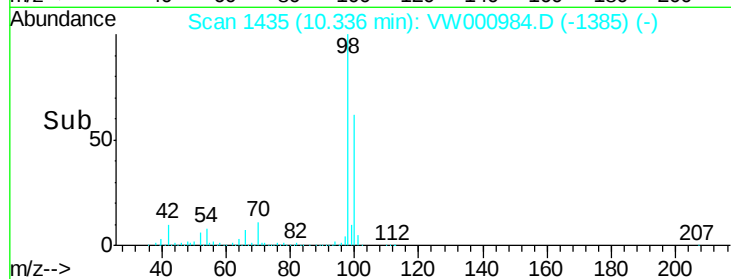
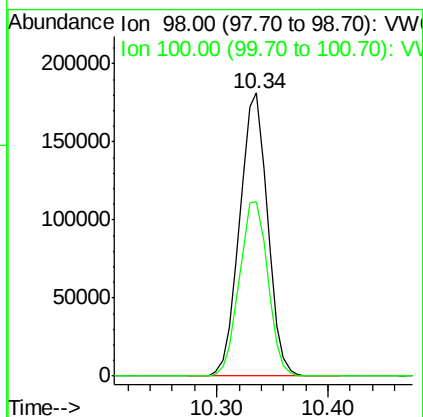
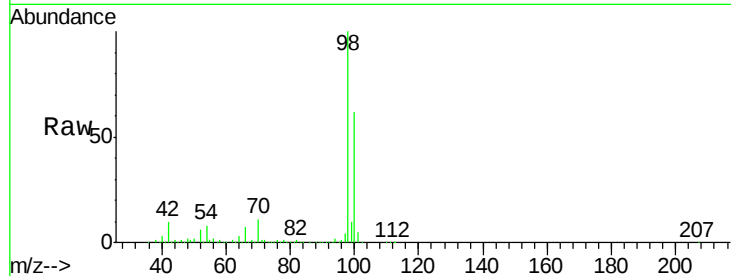
SB-52-13.5-14.0

Tgt Ion: 98 Resp: 315697

Ion Ratio Lower Upper

98 100

100 63.4 50.8 76.2



#56

Ethyl methacrylate

Concen: 3.42 ug/l

RT: 10.68 min Scan# 1491

Delta R.T. 0.02 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

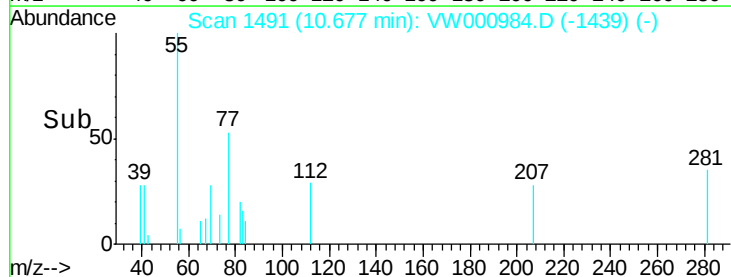
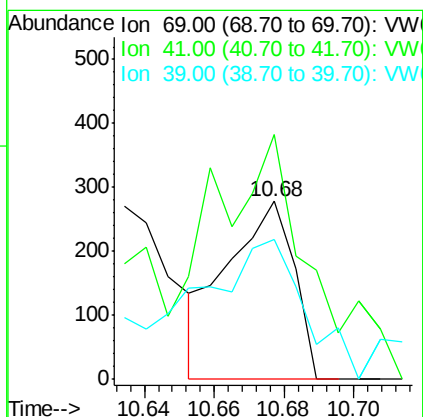
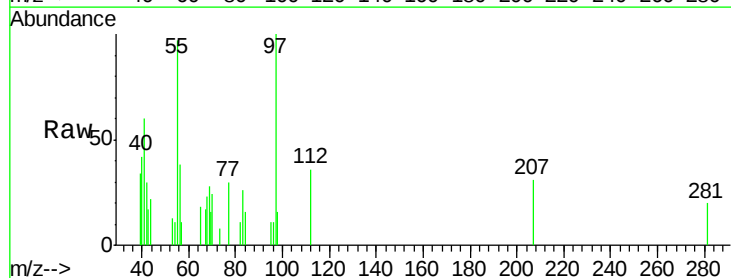
Tgt Ion: 69 Resp: 367

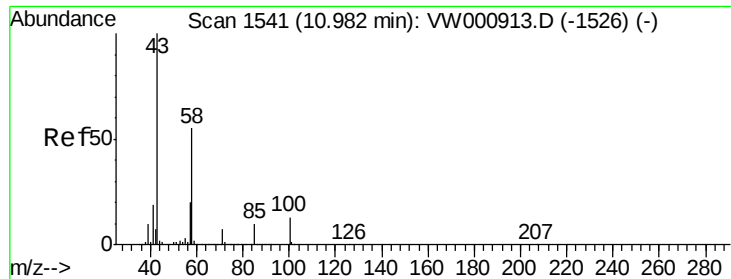
Ion Ratio Lower Upper

69 100

41 202.2 50.3 75.5#

39 121.8 28.6 42.8#





#59

2-Hexanone

Concen: 17.07 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.04 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampleId :

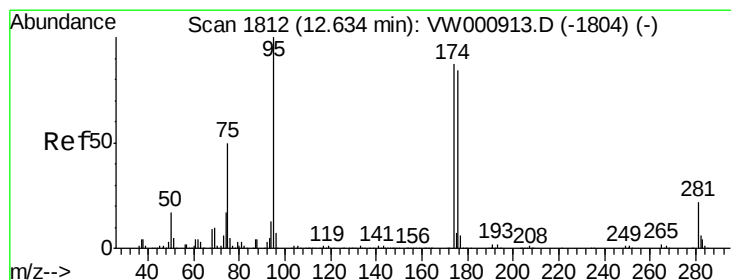
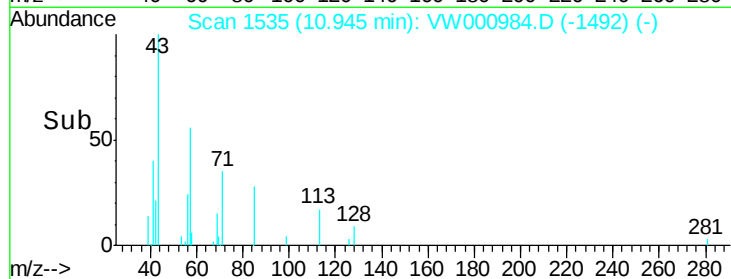
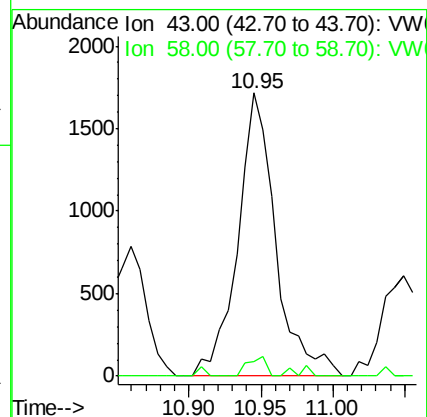
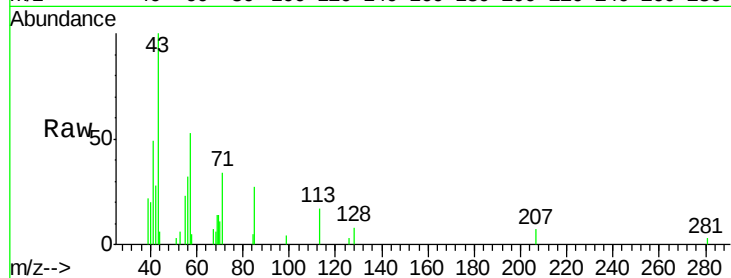
SB-52-13.5-14.0

Tgt Ion: 43 Resp: 3147

Ion Ratio Lower Upper

43 100

58 3.5 27.4 82.2#



#62

4-Bromofluorobenzene

Concen: 44.61 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. 0.00 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

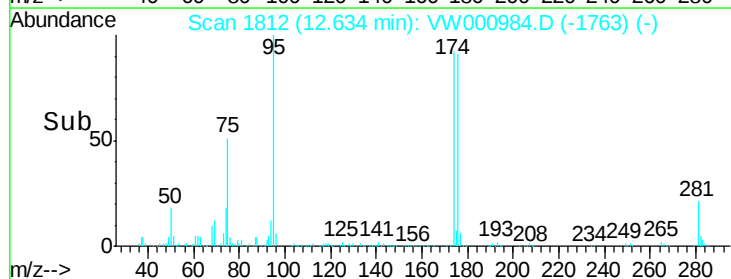
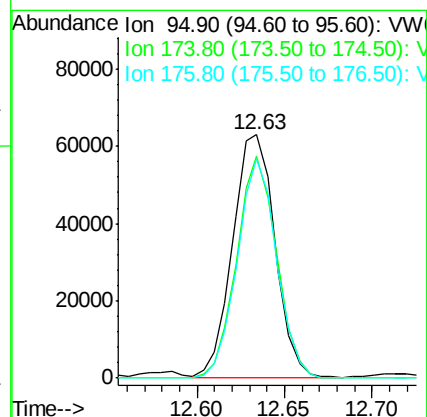
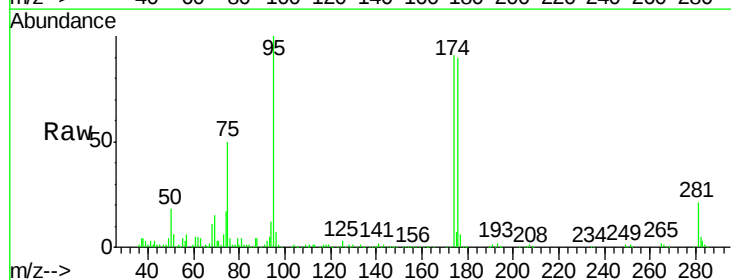
Tgt Ion: 95 Resp: 105066

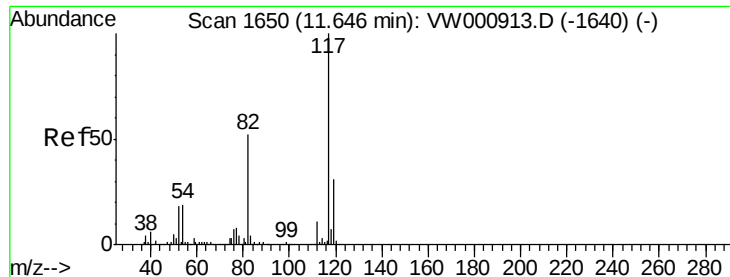
Ion Ratio Lower Upper

95 100

174 86.7 0.0 176.8

176 84.5 0.0 171.8

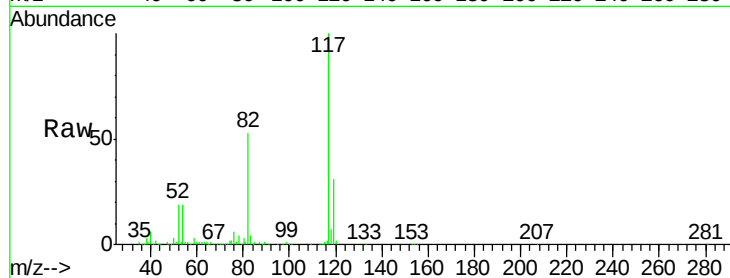




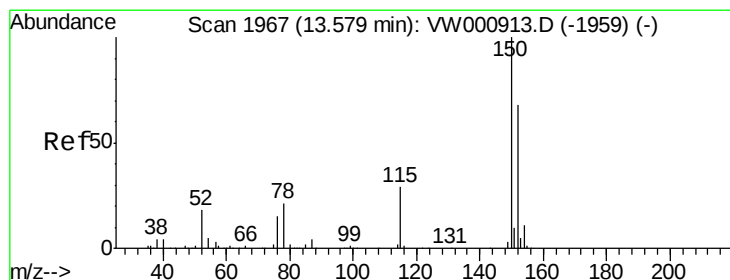
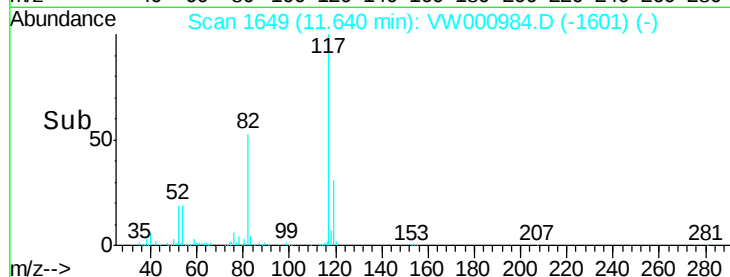
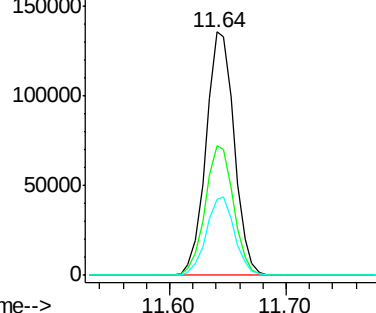
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. -0.01 min
Lab File: VW000984.D
Acq: 25 Jan 2018 06:58

Instrument :
MSVOA_W
ClientSampleId :
SB-52-13.5-14.0

Tgt Ion:117 Resp: 228902
Ion Ratio Lower Upper
117 100
82 53.3 41.8 62.6
119 31.2 25.2 37.8

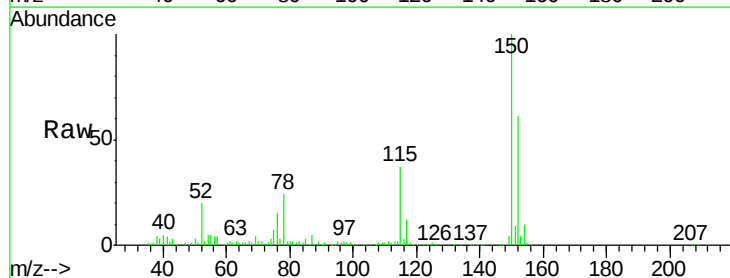


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

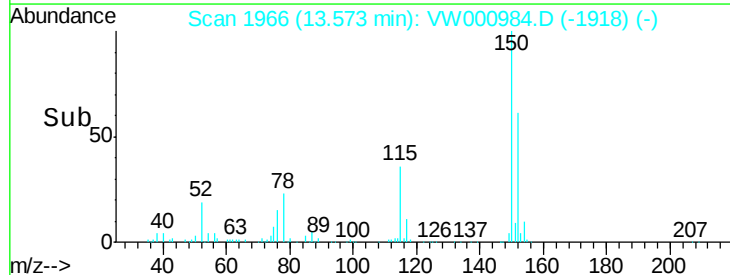
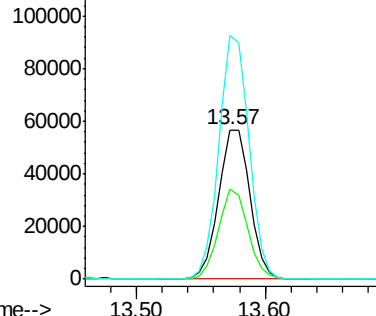


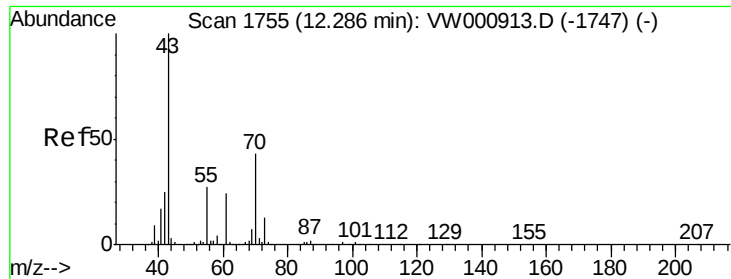
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1966
Delta R.T. -0.01 min
Lab File: VW000984.D
Acq: 25 Jan 2018 06:58

Tgt Ion:152 Resp: 94582
Ion Ratio Lower Upper
152 100
115 57.2 28.5 85.5
150 157.0 0.0 342.0



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





#74

N-ethyl acetate

Concen: 9.80 ug/l

RT: 12.27 min Scan# 1752

Delta R.T. -0.02 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampleID :

SB-52-13.5-14.0

Tgt Ion: 43 Resp: 14545

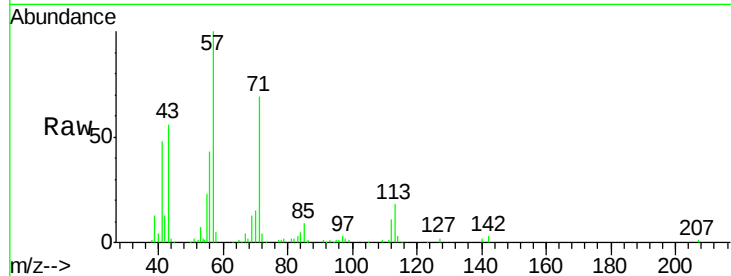
Ion Ratio Lower Upper

43 100

70 33.9 35.8 53.8#

55 51.3 21.4 32.2#

61 0.0 19.5 29.3#

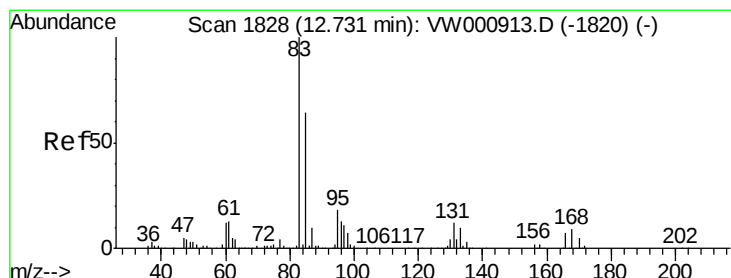
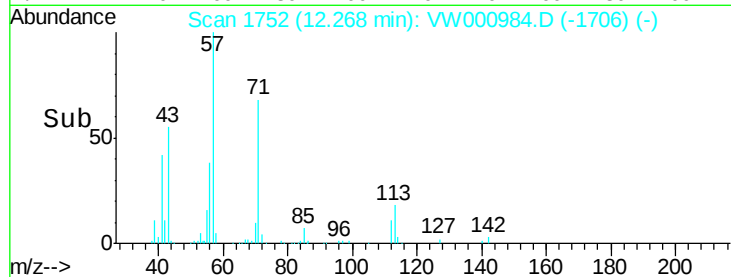
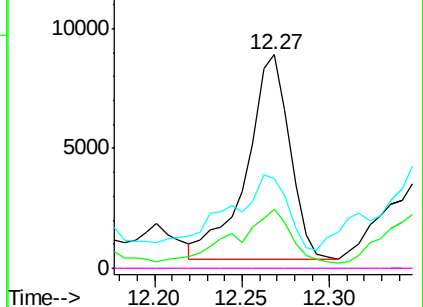


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 1.65 ug/l

RT: 12.70 min Scan# 1822

Delta R.T. -0.04 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

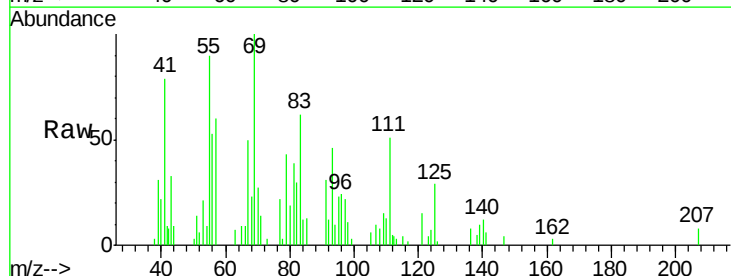
Tgt Ion: 83 Resp: 2158

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

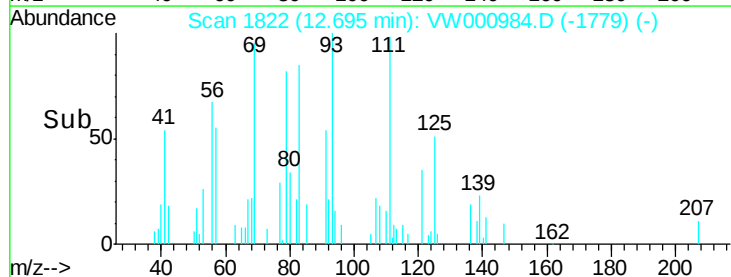
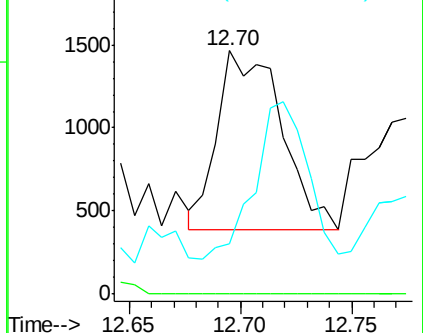
85 0.0 32.6 97.7#

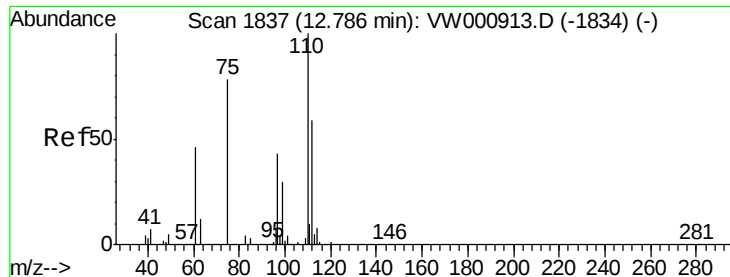


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 48.50 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. -0.15 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampleId :

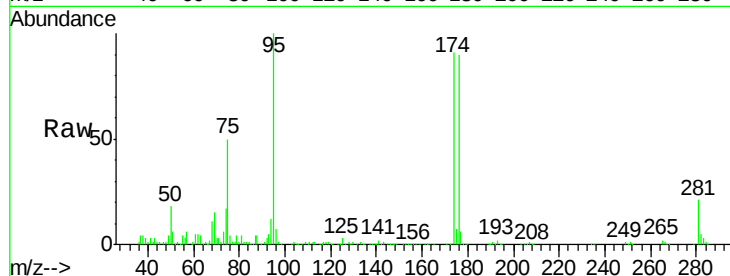
SB-52-13.5-14.0

Tgt Ion: 75 Resp: 53082

Ion Ratio Lower Upper

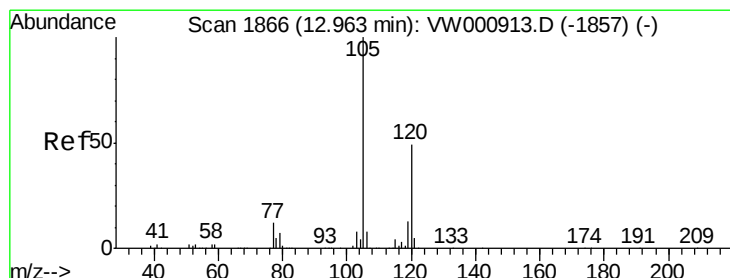
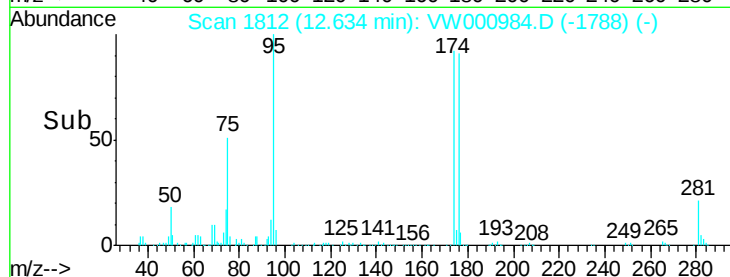
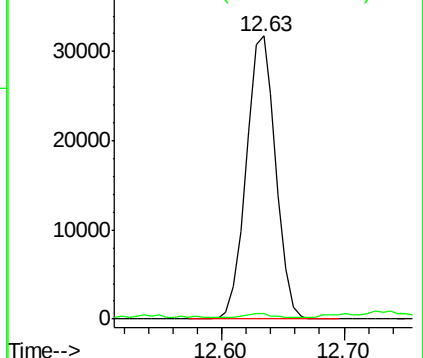
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#80

1,3,5-Trimethylbenzene

Concen: 2.50 ug/l

RT: 12.96 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VW000984.D

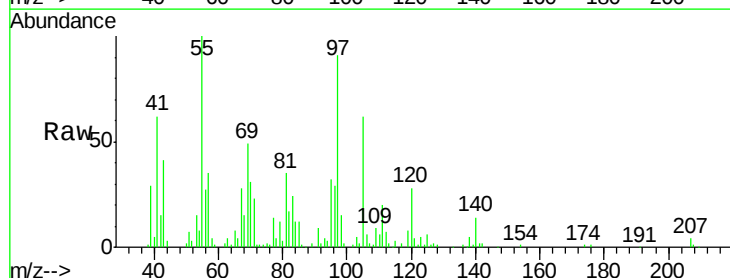
Acq: 25 Jan 2018 06:58

Tgt Ion: 105 Resp: 12998

Ion Ratio Lower Upper

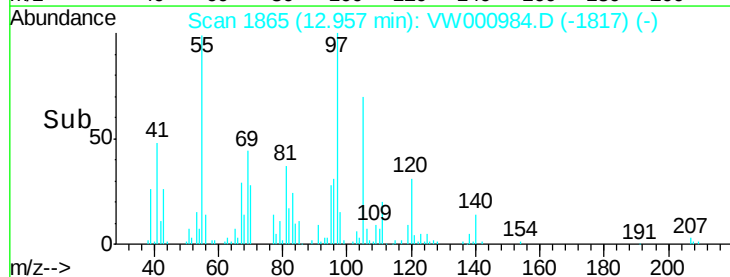
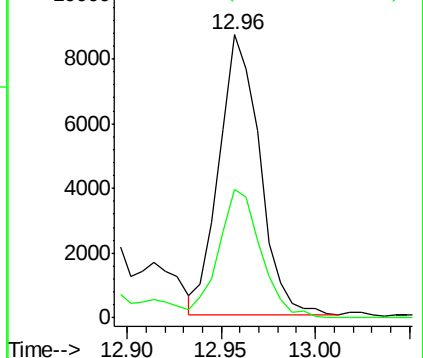
105 100

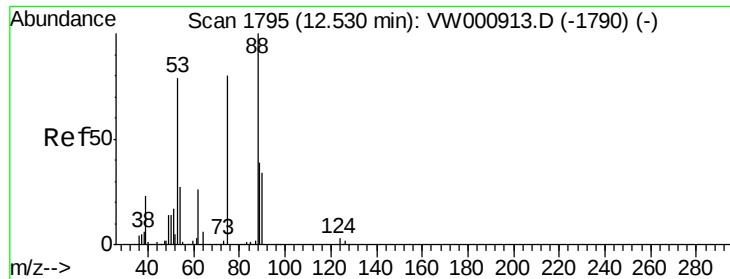
120 47.6 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 115.18 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. 0.10 min

Lab File: VW000984.D

Acq: 25 Jan 2018 06:58

Instrument :

MSVOA_W

ClientSampleId :

SB-52-13.5-14.0

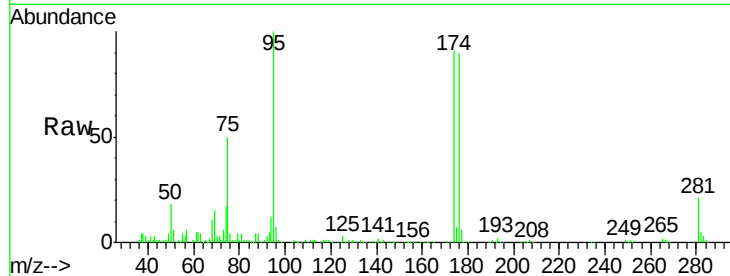
Tgt Ion: 75 Resp: 53082

Ion Ratio Lower Upper

75 100

53 1.0 77.5 116.3#

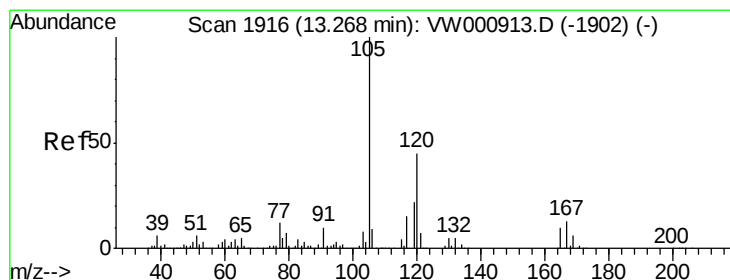
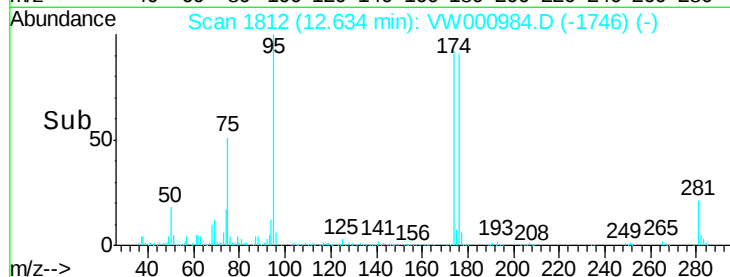
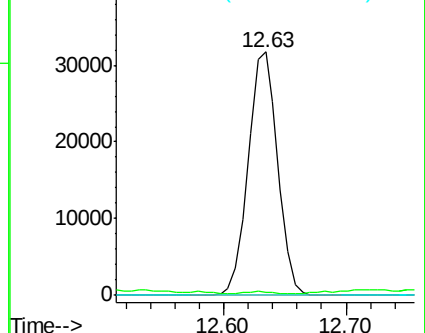
89 0.3 38.2 57.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 12.76 ug/l

RT: 13.27 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VW000984.D

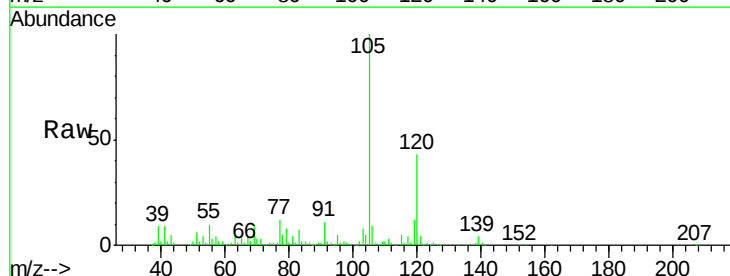
Acq: 25 Jan 2018 06:58

Tgt Ion: 105 Resp: 67091

Ion Ratio Lower Upper

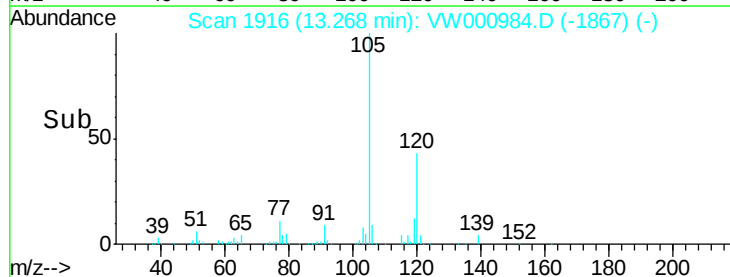
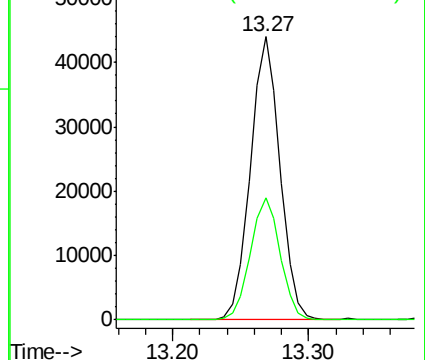
105 100

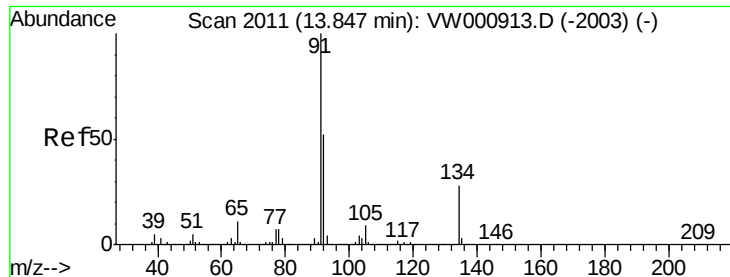
120 43.3 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

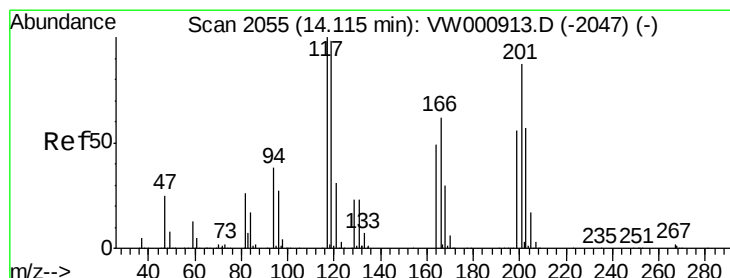
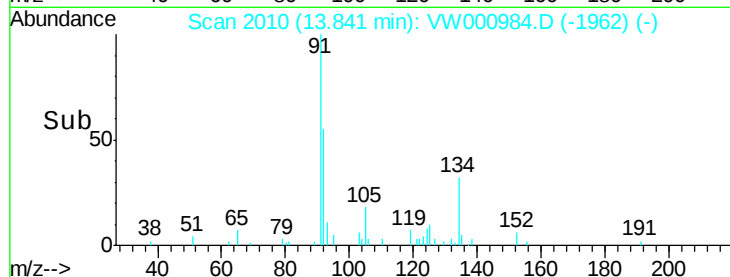
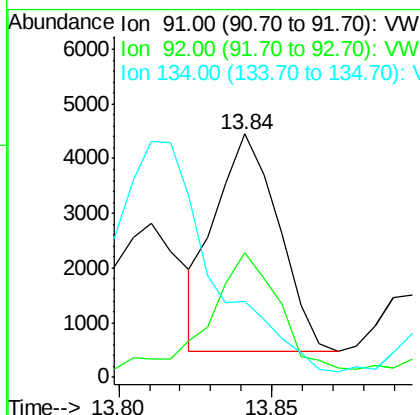
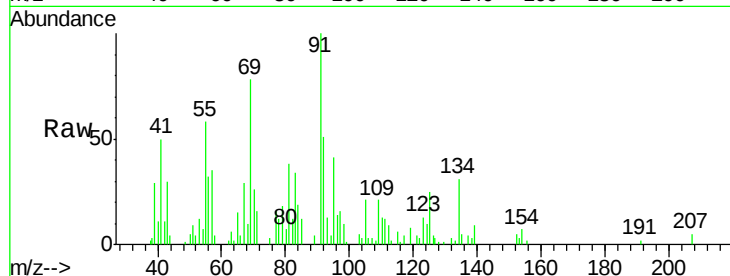




#89
n-Butylbenzene
Concen: 1.03 ug/l
RT: 13.84 min Scan# 2010
Delta R.T. -0.01 min
Lab File: VW000984.D
Acq: 25 Jan 2018 06:58

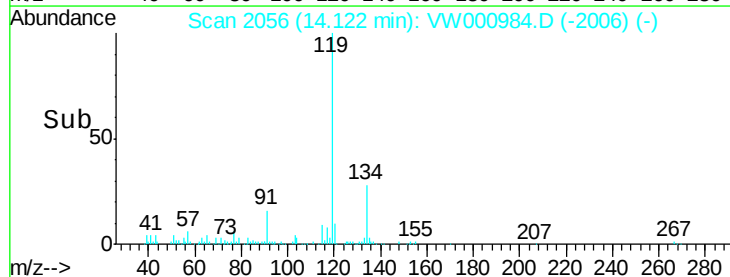
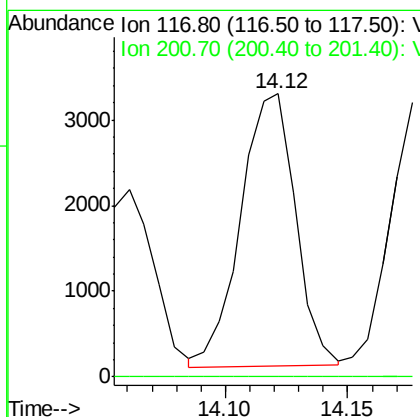
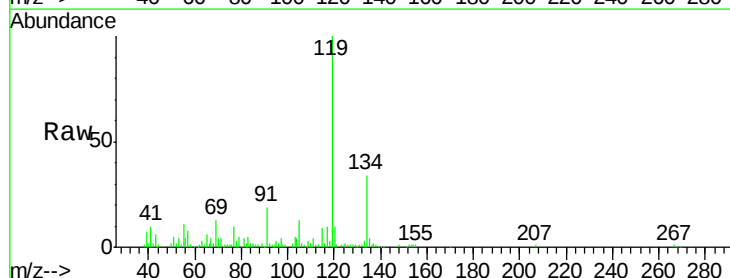
Instrument :
MSVOA_W
ClientSampleId :
SB-52-13.5-14.0

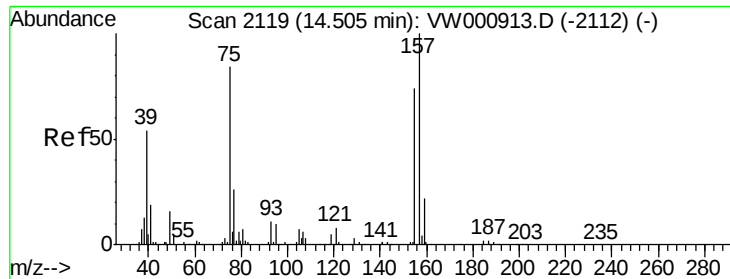
Tgt Ion: 91 Resp: 5646
Ion Ratio Lower Upper
91 100
92 56.6 26.2 78.6
134 0.0 13.7 41.1#



#90
Hexachloroethane
Concen: 4.57 ug/l
RT: 14.12 min Scan# 2056
Delta R.T. 0.01 min
Lab File: VW000984.D
Acq: 25 Jan 2018 06:58

Tgt Ion: 117 Resp: 4952
Ion Ratio Lower Upper
117 100
201 0.0 42.8 128.3#

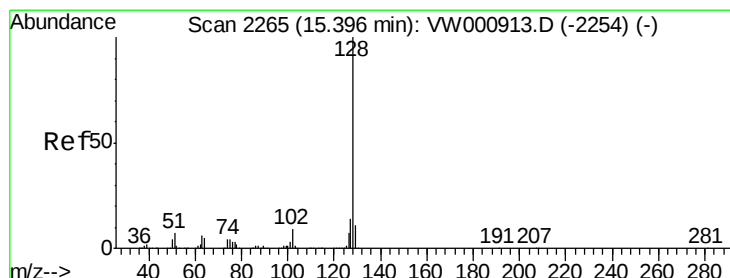
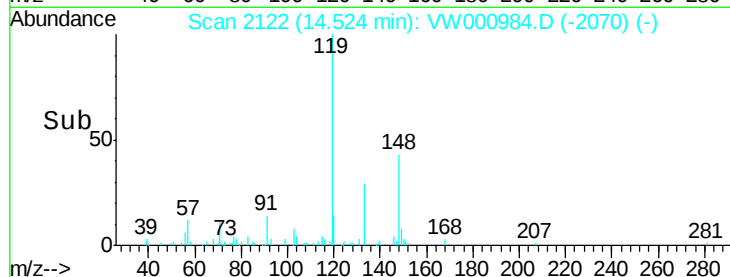
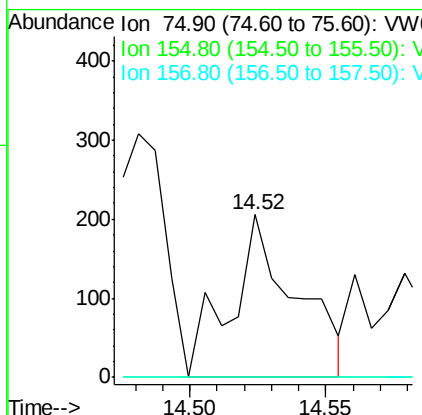
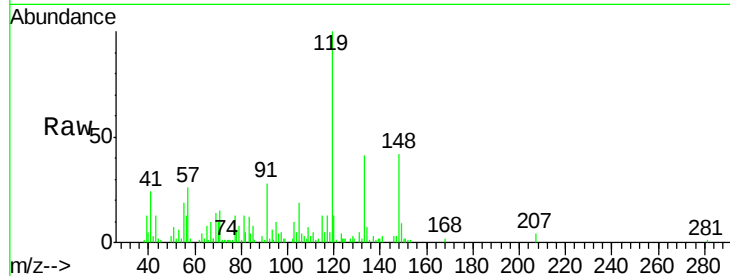




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.19 ug/l
 RT: 14.52 min Scan# 2122
 Delta R.T. 0.02 min
 Lab File: VW000984.D
 Acq: 25 Jan 2018 06:58

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-52-13.5-14.0

Tgt Ion: 75 Resp: 342
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.9 137.6#
 157 0.0 59.8 179.3#



#95
 Naphthalene
 Concen: 28.63 ug/l
 RT: 15.39 min Scan# 2264
 Delta R.T. -0.01 min
 Lab File: VW000984.D
 Acq: 25 Jan 2018 06:58

Tgt Ion: 128 Resp: 125128
 Ion Ratio Lower Upper
 128 100
 127 13.4 10.6 15.8
 129 11.7 8.7 13.1

