

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW061019\
 Data File : VW010758.D
 Acq On : 10 Jun 2019 21:12
 Operator : SY/VA
 Sample : K3274-03
 Misc : 4.61G/5ML/MSVOA_W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-12 0.5-1.0 060719

Quant Time: Jun 11 05:29:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	206317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	359624	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	318293	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	143259	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	143427	58.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.96%	
35) Dibromofluoromethane	7.88	113	106583	54.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.20%	
50) Toluene-d8	10.32	98	469707	54.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.74%	
62) 4-Bromofluorobenzene	12.62	95	169428	54.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.80%	

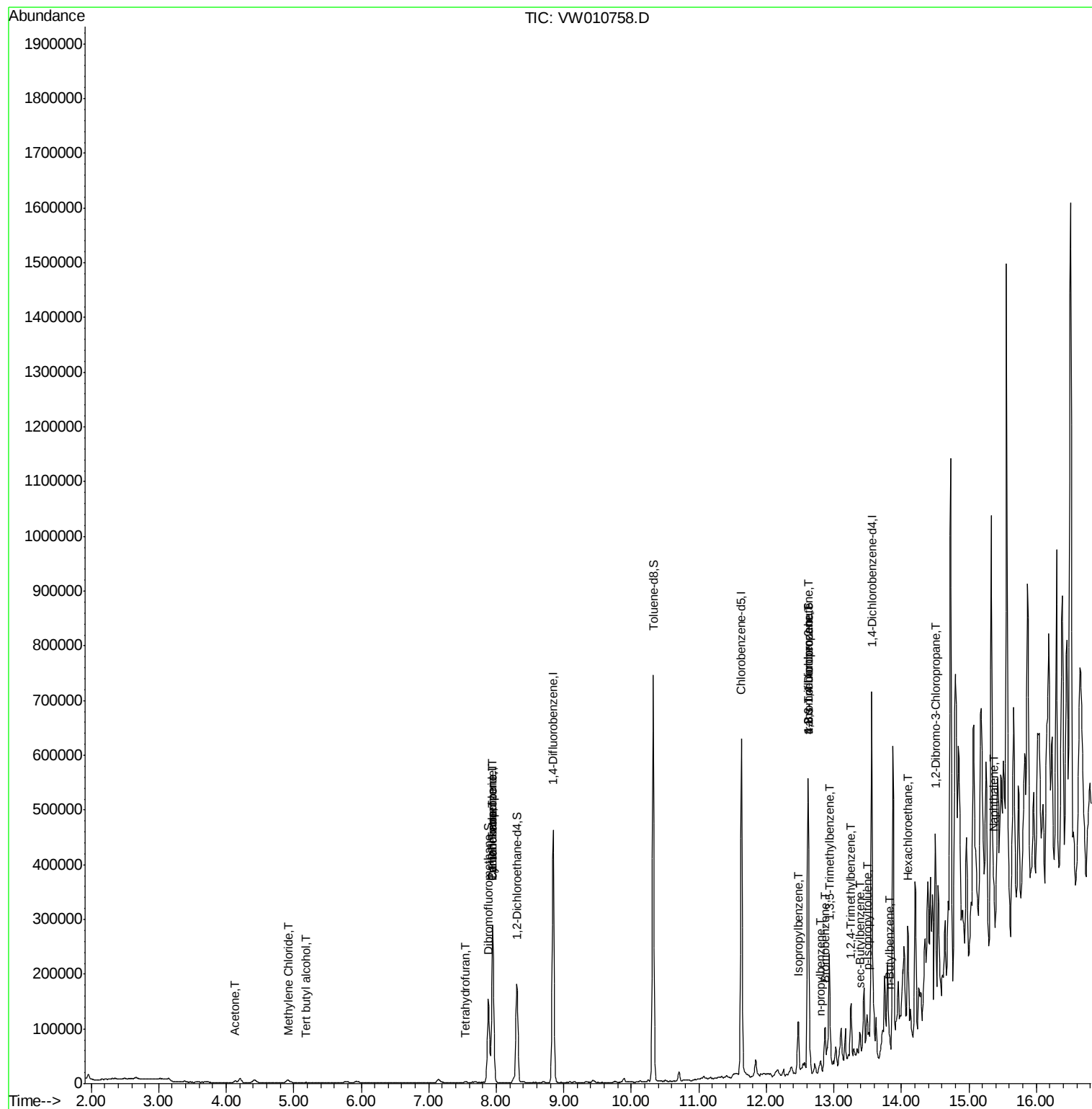
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.18	59	499	2.519	ug/l #	72
16) Acetone	4.13	43	6520	10.006	ug/l	96
20) Methylene Chloride	4.92	84	3210	1.404	ug/l #	92
29) Tetrahydrofuran	7.54	42	1185	2.085	ug/l #	65
31) Cyclohexane	7.94	56	5541	1.129	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18075	4.910	ug/l #	51
38) Carbon Tetrachloride	7.95	117	20462	6.439	ug/l #	18
73) Isopropylbenzene	12.47	105	10998	1.022	ug/l	90
76) 1,2,3-Trichloropropane	12.62	75	92364	61.395	ug/l #	100
77) Bromobenzene	12.87	156	13744	5.849	ug/l #	1
78) n-propylbenzene	12.80	91	16808	1.295	ug/l	96
80) 1,3,5-Trimethylbenzene	12.94	105	17383	1.973	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	92364	141.107	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.26	105	60892	6.867	ug/l	100
85) sec-Butylbenzene	13.39	105	31580	2.900	ug/l	91
86) p-Isopropyltoluene	13.50	119	18829	1.934	ug/l	99
89) n-Butylbenzene	13.83	91	15296	1.575	ug/l #	72
90) Hexachloroethane	14.10	117	8226	4.718	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.50	75	682	1.938	ug/l	77
95) Naphthalene	15.37	128	29289	5.637	ug/l #	88

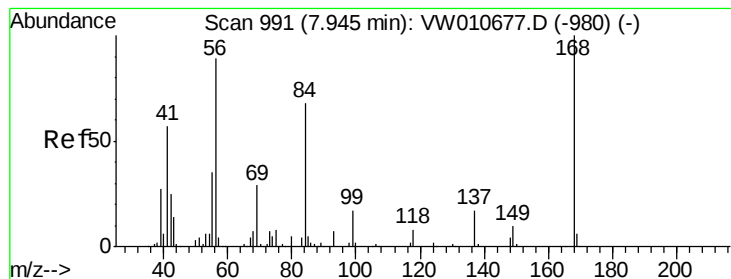
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW010758.D

Acq: 10 Jun 2019 21:12

Instrument :

MSVOA_W

ClientSampleId :

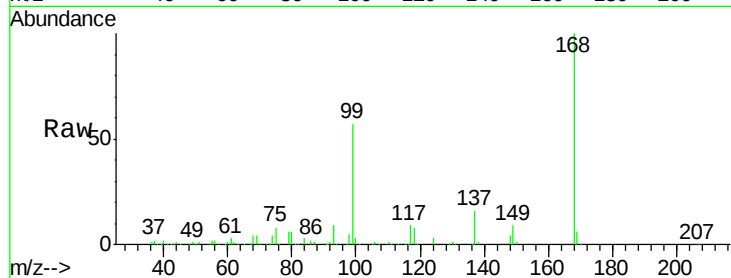
SB-12 0.5-1.0 060719

Tgt Ion:168 Resp: 206317

Ion Ratio Lower Upper

168 100

99 57.4 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

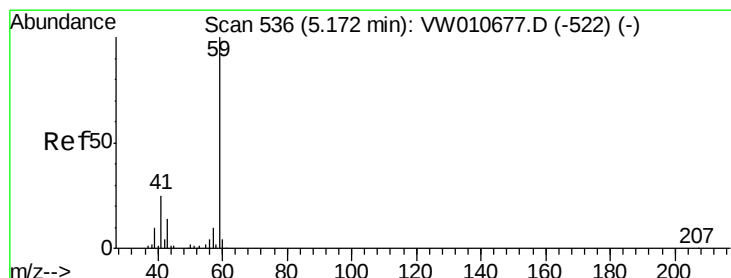
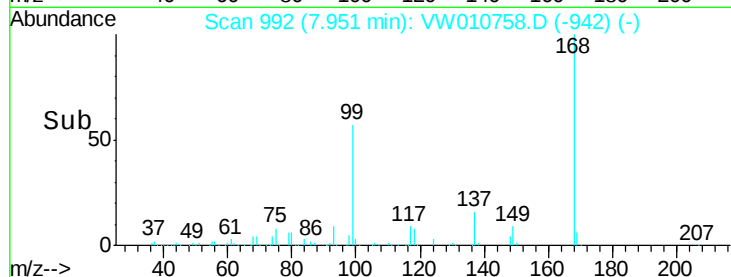
40000

20000

0

Time-->

7.90 8.00



#11

Tert butyl alcohol

Concen: 2.519 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW010758.D

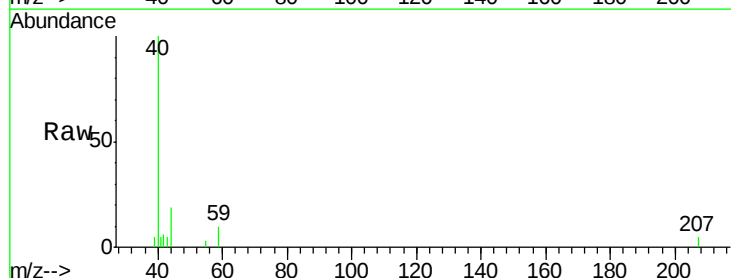
Acq: 10 Jun 2019 21:12

Tgt Ion: 59 Resp: 499

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

200

150

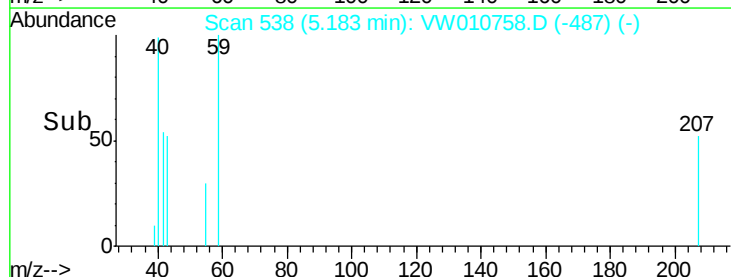
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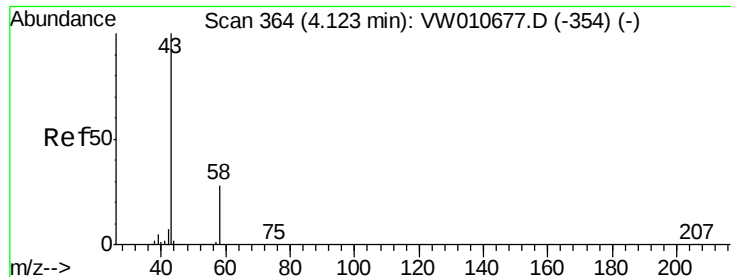
50

0

Time-->

5.10 5.15 5.20





#16

Acetone

Concen: 10.006 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010758.D

Acq: 10 Jun 2019 21:12

Instrument :

MSVOA_W

ClientSampleId :

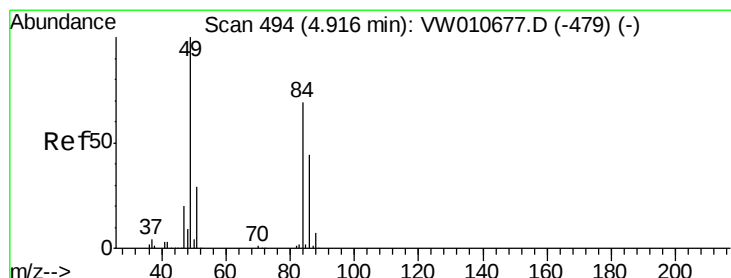
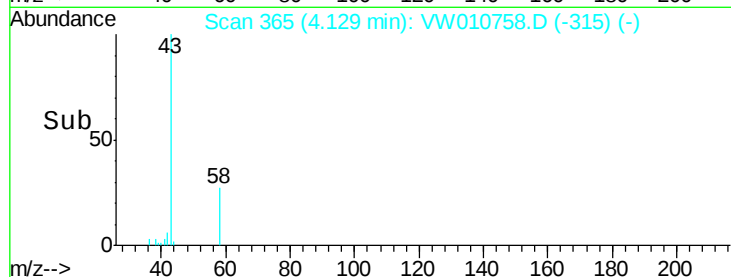
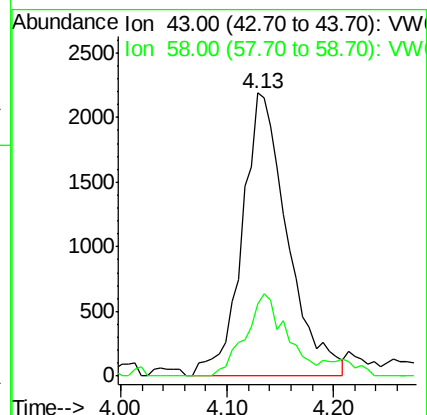
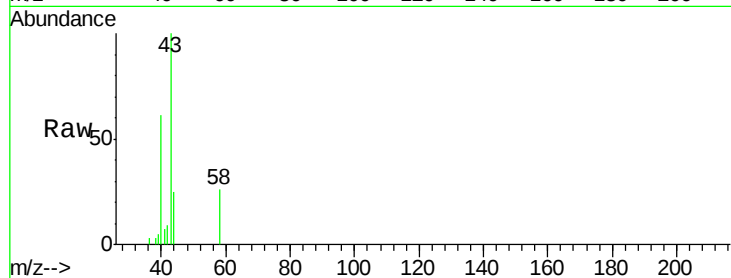
SB-12 0.5-1.0 060719

Tgt Ion: 43 Resp: 6520

Ion Ratio Lower Upper

43 100

58 25.7 22.1 33.1



#20

Methylene Chloride

Concen: 1.404 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW010758.D

Acq: 10 Jun 2019 21:12

Tgt Ion: 84 Resp: 3210

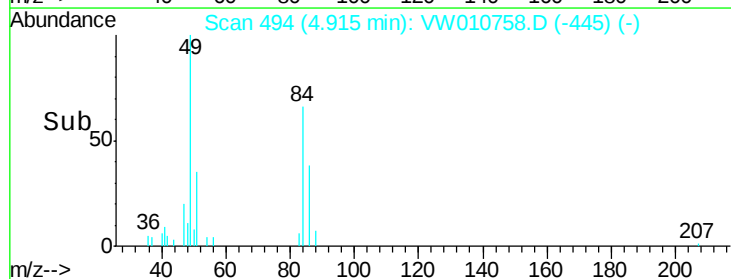
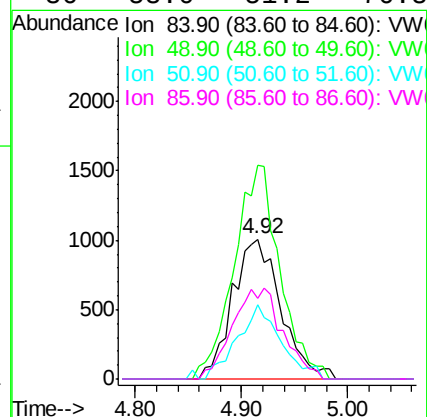
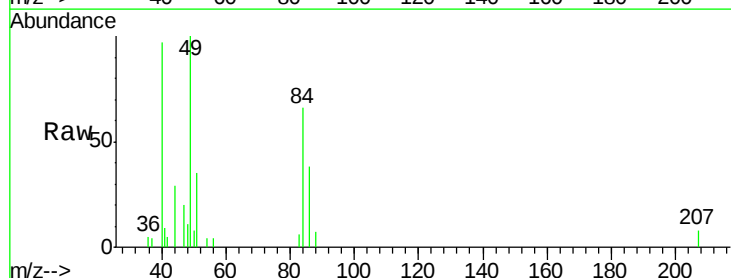
Ion Ratio Lower Upper

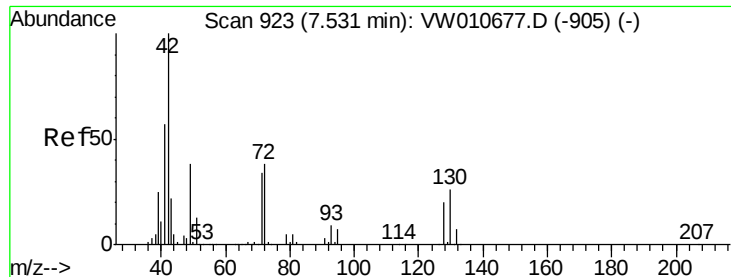
84 100

49 152.5 116.7 175.1

51 52.8 34.2 51.2#

86 58.0 51.2 76.8

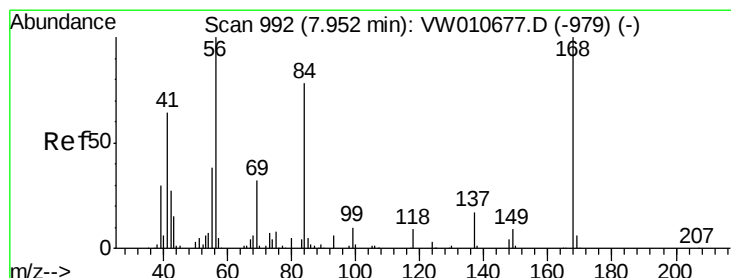
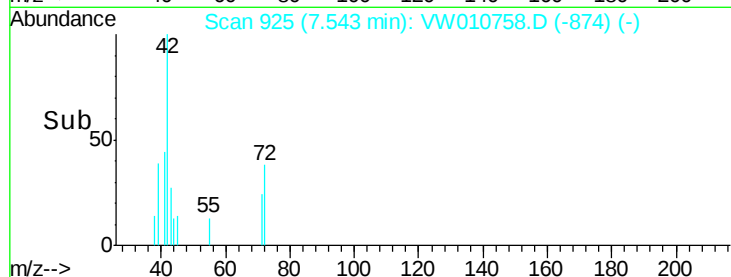
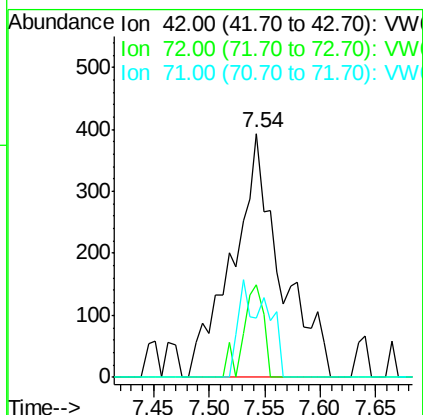
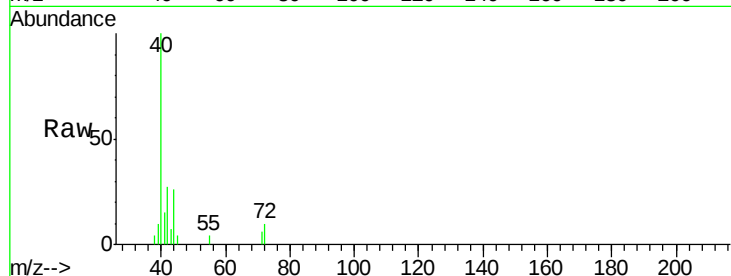




#29
Tetrahydrofuran
Concen: 2.085 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW010758.D
Acq: 10 Jun 2019 21:12

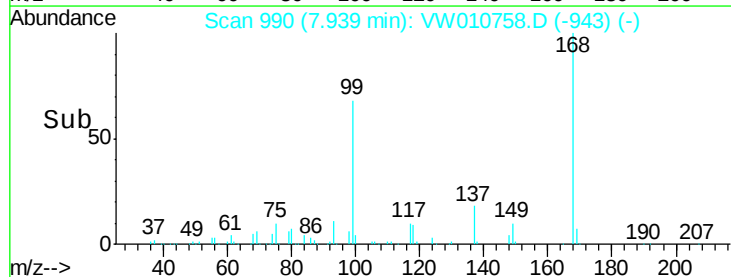
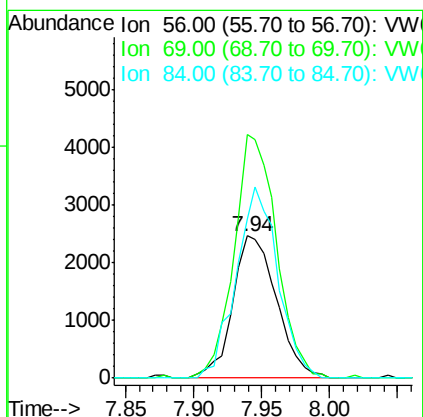
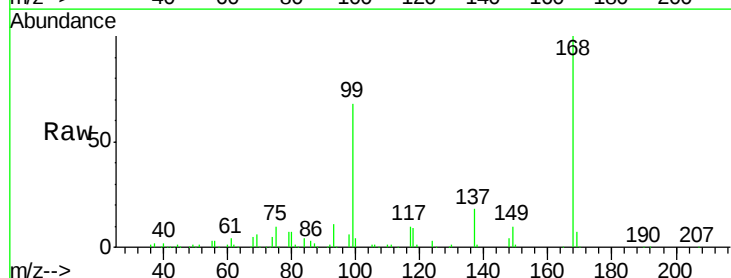
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SB-12 0.5-1.0 060719

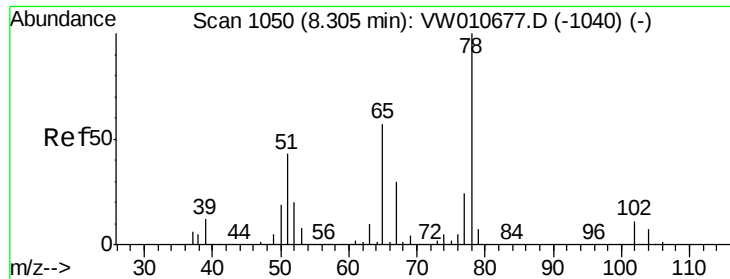
Tgt Ion: 42 Resp: 1185
Ion Ratio Lower Upper
42 100
72 15.8 28.7 43.1#
71 12.9 26.6 39.8#



#31
Cyclohexane
Concen: 1.129 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW010758.D
Acq: 10 Jun 2019 21:12

Tgt Ion: 56 Resp: 5541
Ion Ratio Lower Upper
56 100
69 171.6 25.2 37.8#
84 112.5 62.2 93.2#

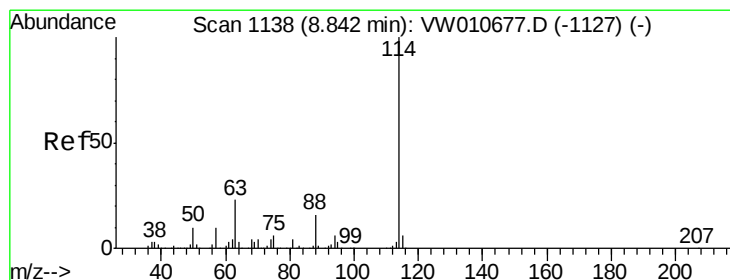
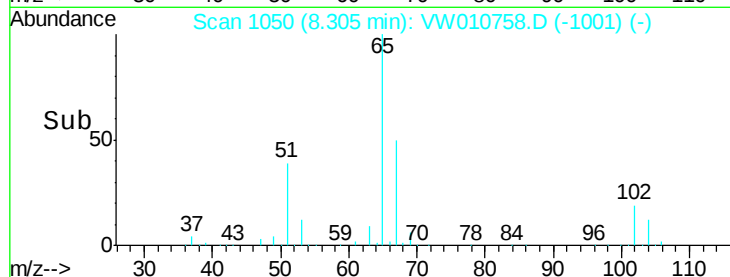
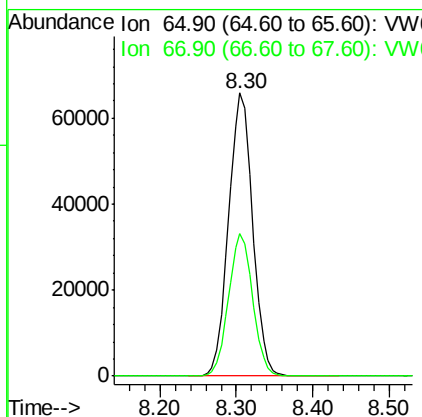
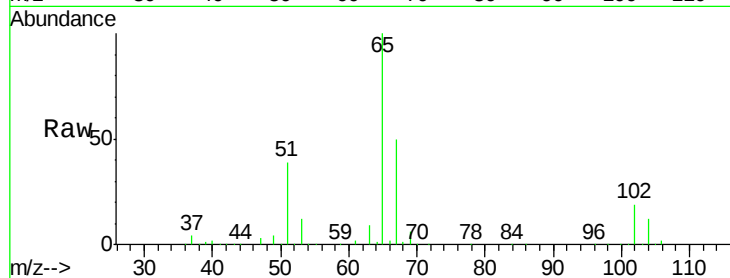




#33
 1,2-Dichloroethane-d4
 Concen: 58.980 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

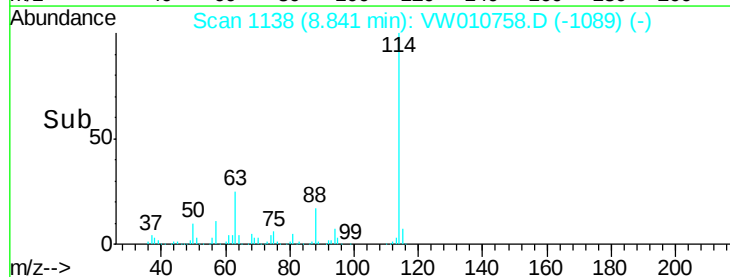
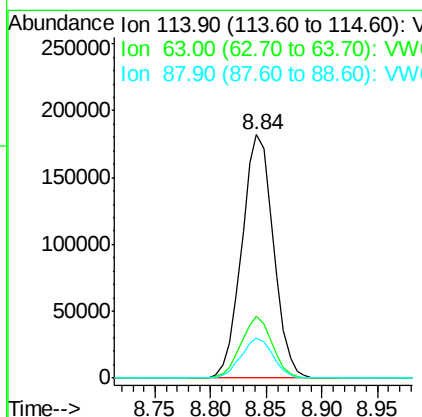
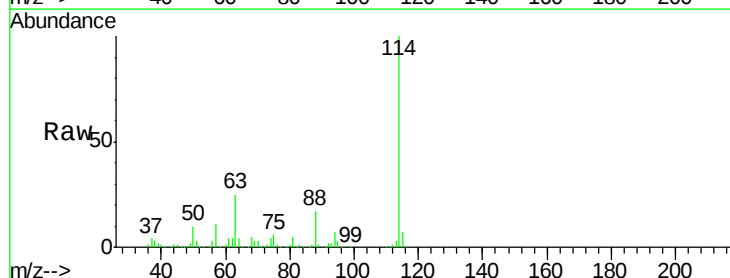
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-12 0.5-1.0 060719

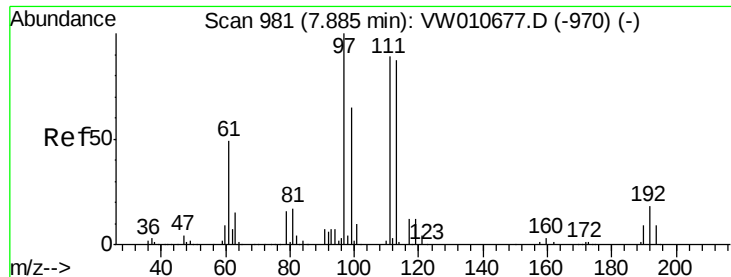
Tgt Ion: 65 Resp: 143427
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

Tgt Ion: 114 Resp: 359624
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 46.4
 88 16.6 0.0 32.2

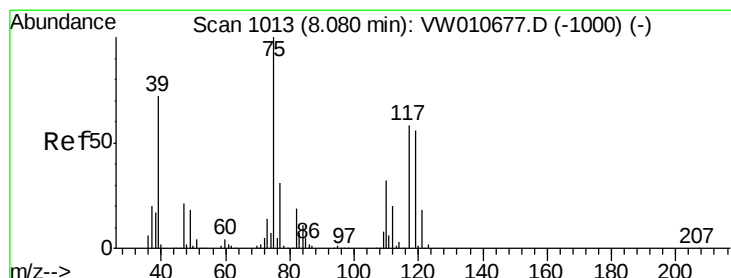
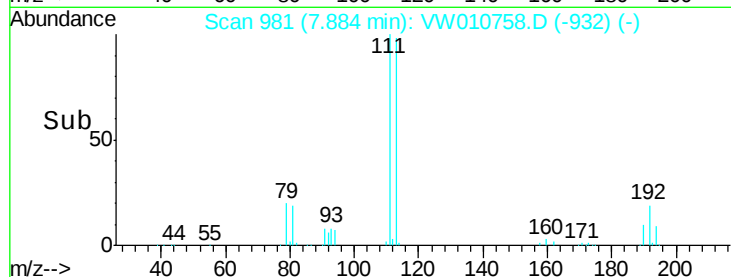
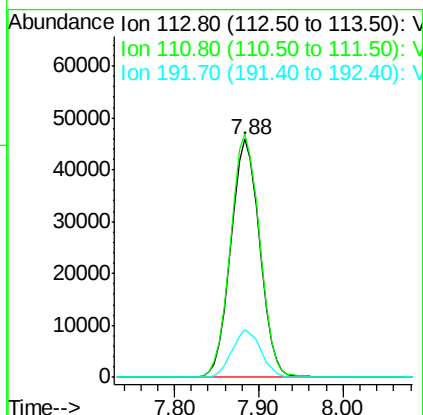
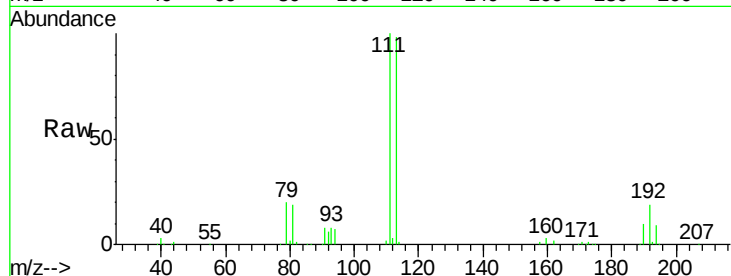




#35
 Dibromofluoromethane
 Concen: 54.603 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

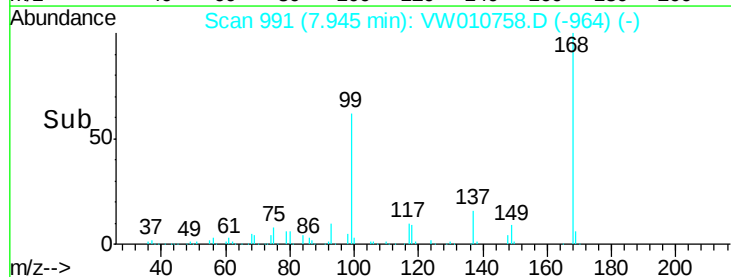
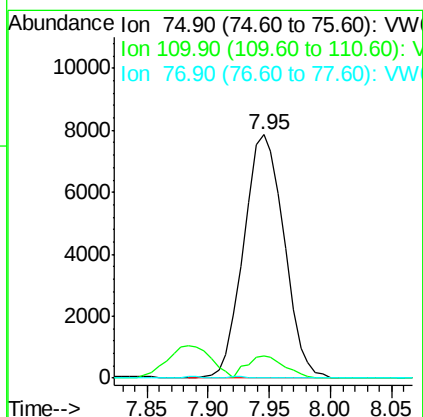
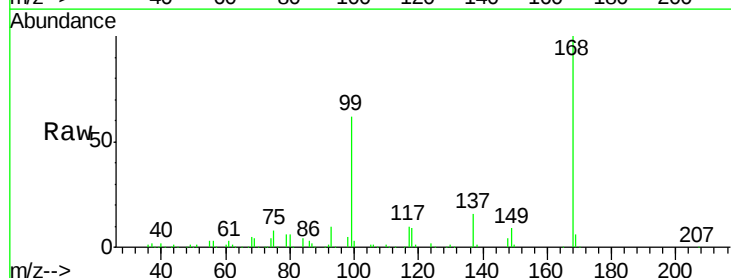
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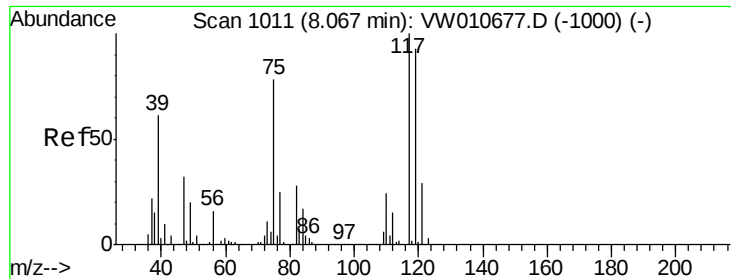
Tgt Ion:113 Resp: 106583
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.6 123.8
 192 19.7 16.4 24.6



#36
 1,1-Dichloropropene
 Concen: 4.910 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

Tgt Ion: 75 Resp: 18075
 Ion Ratio Lower Upper
 75 100
 110 8.5 15.8 47.3#
 77 0.0 24.7 37.1#

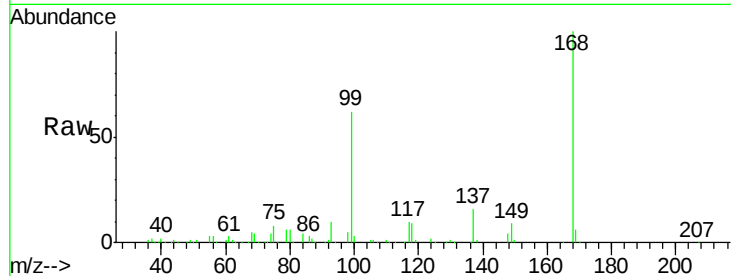




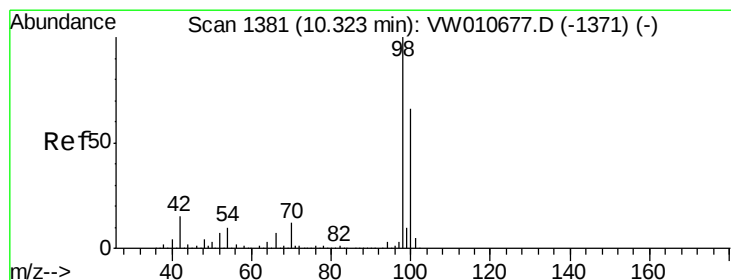
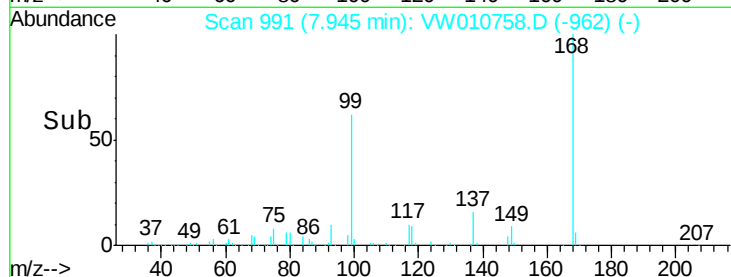
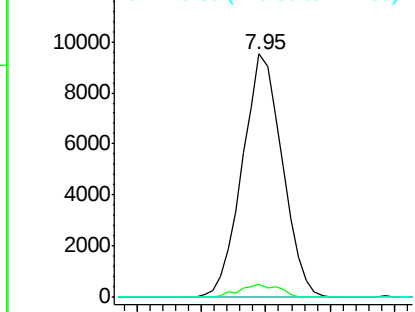
#38
Carbon Tetrachloride
Concen: 6.439 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW010758.D
Acq: 10 Jun 2019 21:12

Instrument :
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Tgt Ion: 117 Resp: 20462
Ion Ratio Lower Upper
117 100
119 5.6 74.2 111.4#
121 0.0 22.9 34.3#

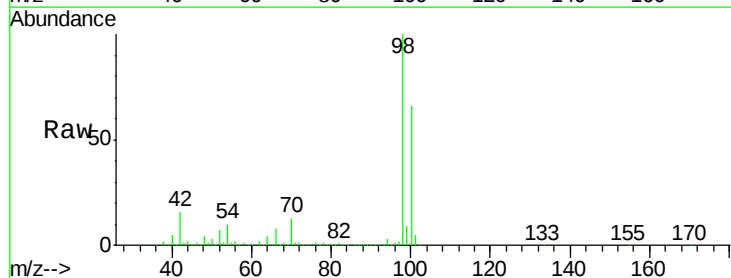


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

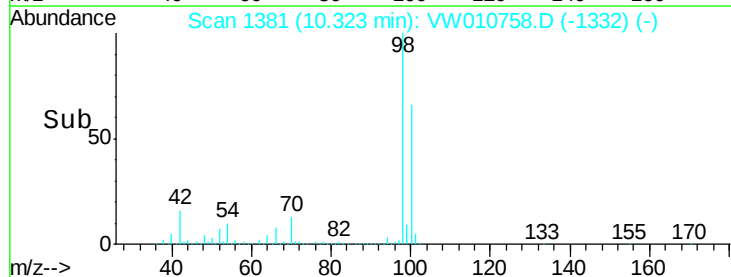
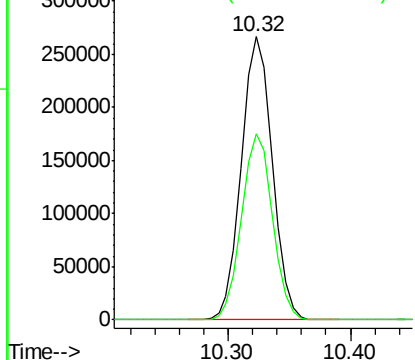


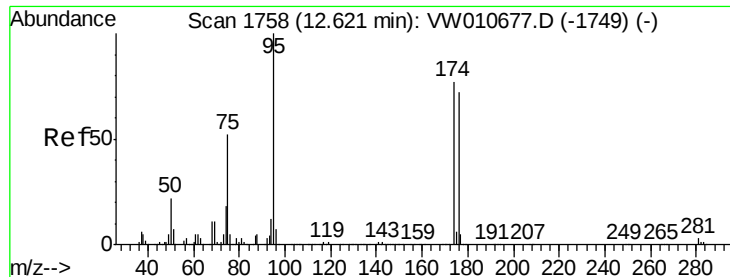
#50
Toluene-d8
Concen: 54.875 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010758.D
Acq: 10 Jun 2019 21:12

Tgt Ion: 98 Resp: 469707
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

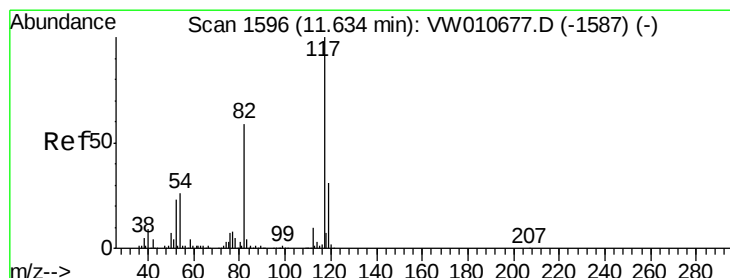
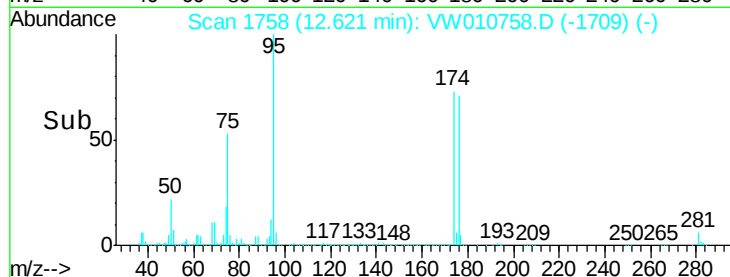
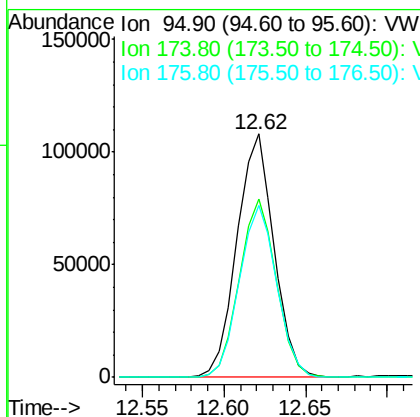
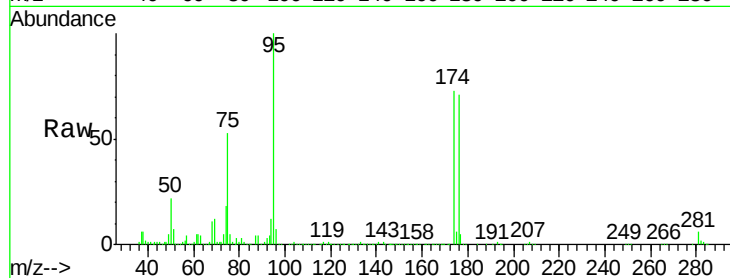




#62
4-Bromofluorobenzene
Concen: 54.396 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010758.D
Acq: 10 Jun 2019 21:12

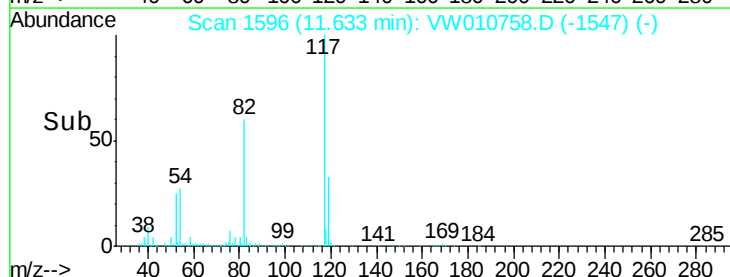
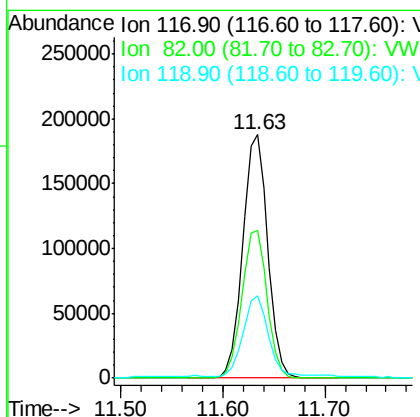
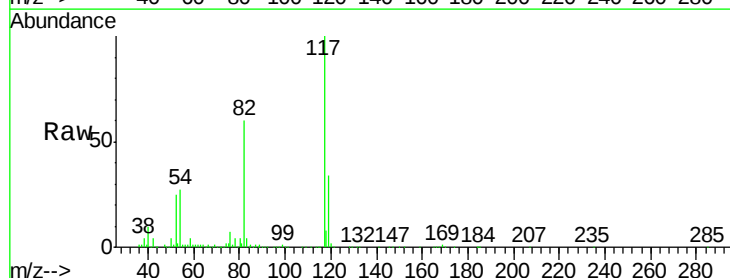
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ClientSampleId :
SB-12 0.5-1.0 060719

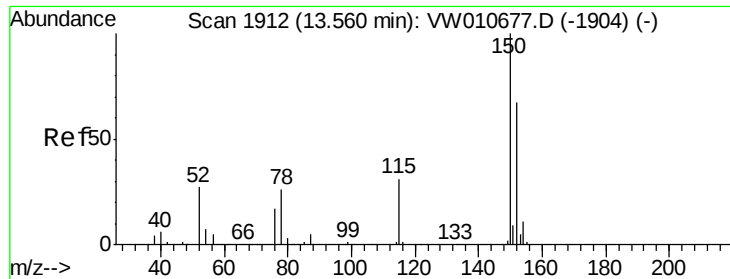
Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.8	0.0	150.4
176	71.9	0.0	144.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010758.D
Acq: 10 Jun 2019 21:12

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.0	70.4
119	32.9	25.1	37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010758.D

Acq: 10 Jun 2019 21:12

Instrument :

MSVOA_W

ClientSampleId :

SB-12 0.5-1.0 060719

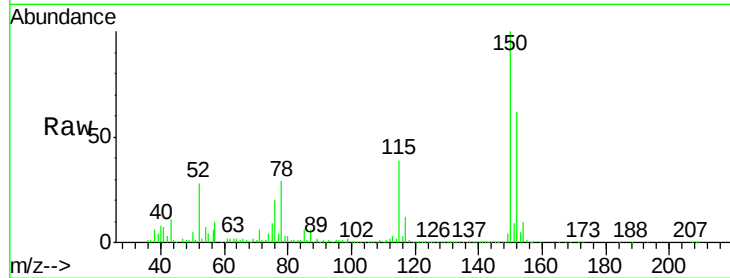
Tgt Ion:152 Resp: 143259

Ion Ratio Lower Upper

152 100

115 61.6 29.8 89.3

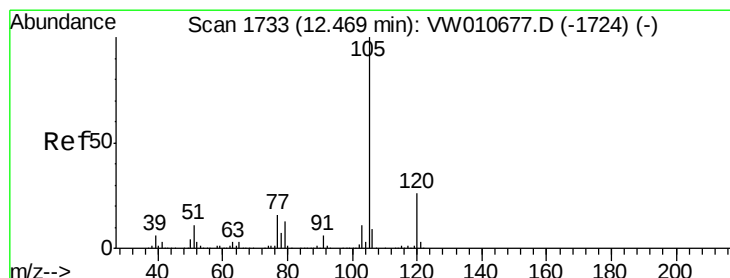
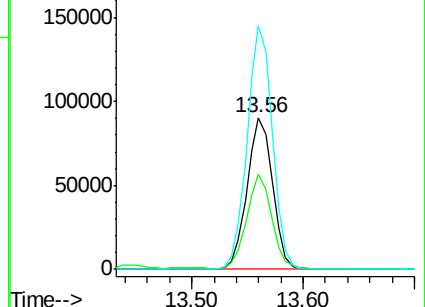
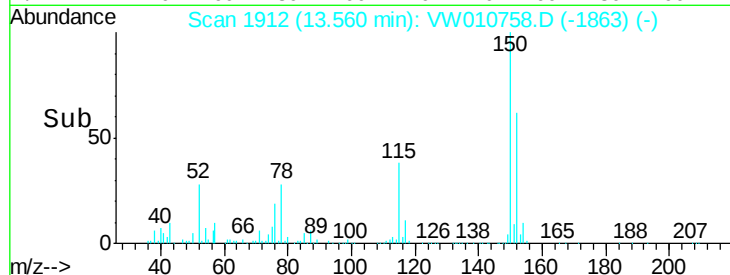
150 158.9 0.0 345.0



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



#73

Isopropylbenzene

Concen: 1.022 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW010758.D

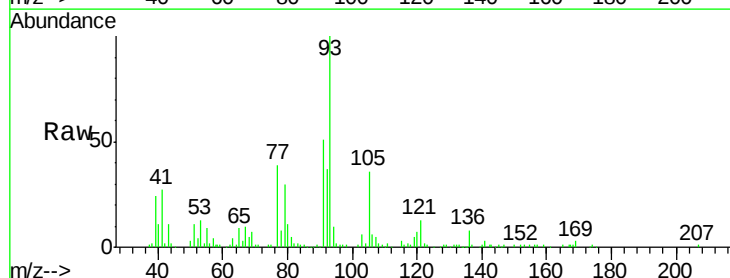
Acq: 10 Jun 2019 21:12

Tgt Ion:105 Resp: 10998

Ion Ratio Lower Upper

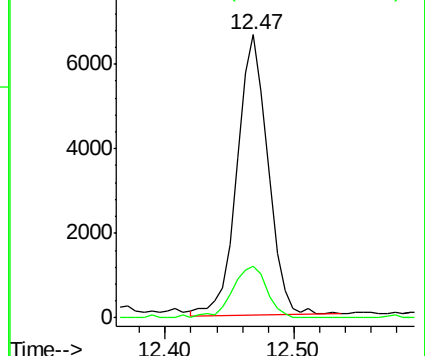
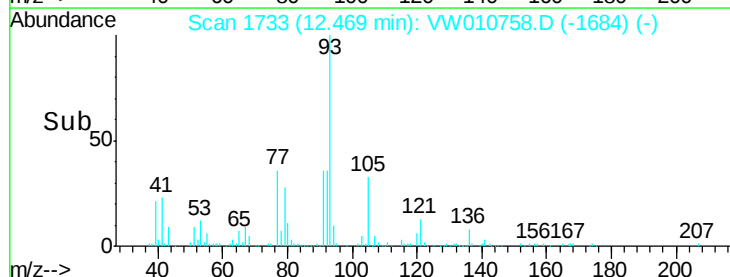
105 100

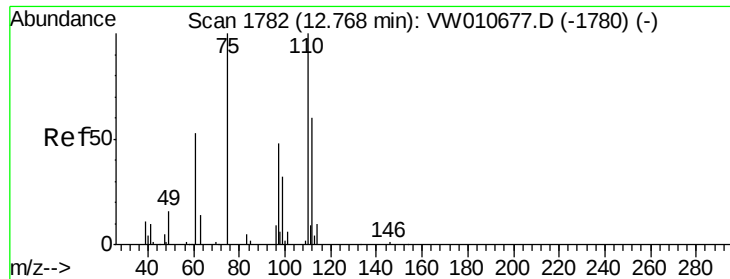
120 20.8 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

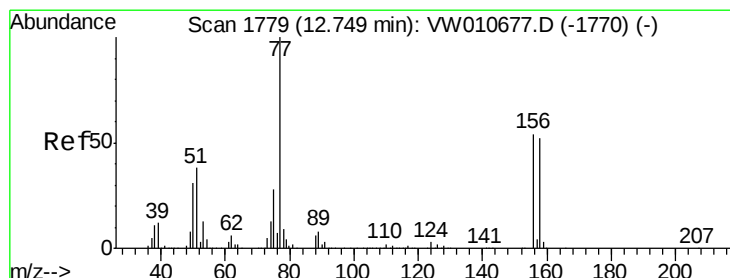
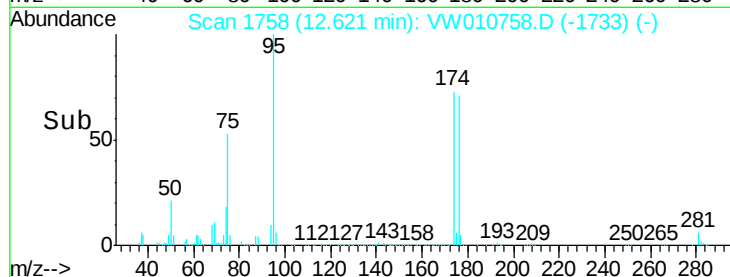
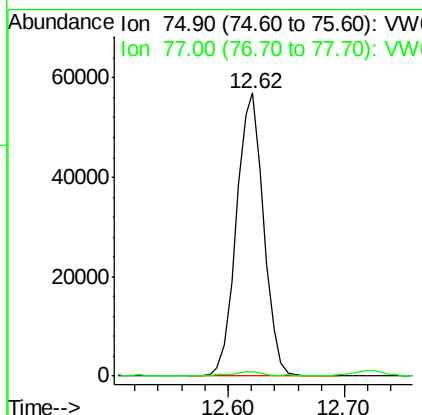
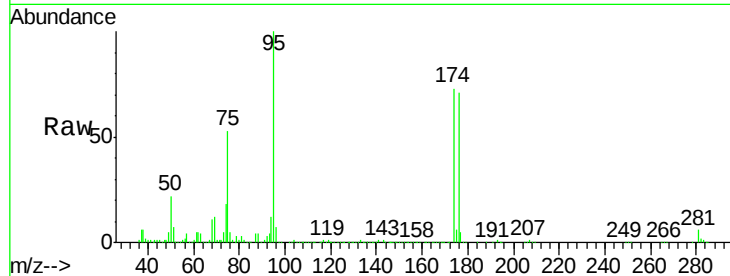




#76
 1,2,3-Trichloropropane
 Concen: 61.395 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

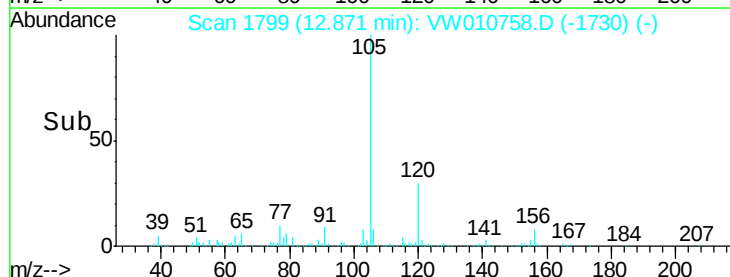
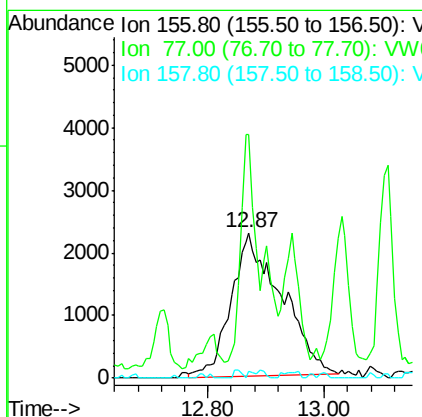
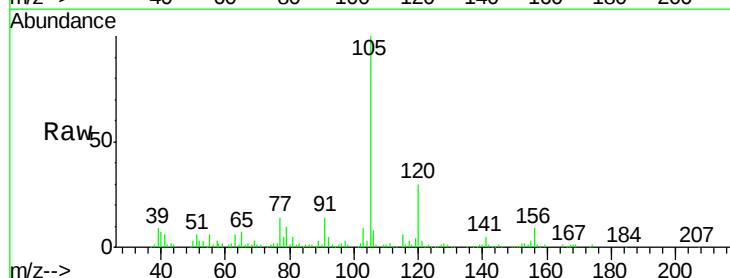
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-12 0.5-1.0 060719

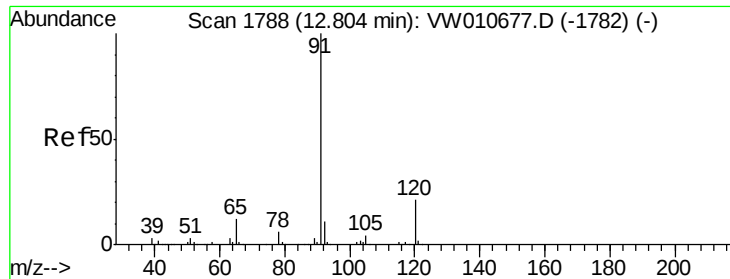
Tgt Ion: 75 Resp: 92364
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#77
 Bromobenzene
 Concen: 5.849 ug/l
 RT: 12.87 min Scan# 1799
 Delta R.T. 0.12 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

Tgt Ion: 156 Resp: 13744
 Ion Ratio Lower Upper
 156 100
 77 45.2 106.5 319.4#
 158 0.7 48.3 144.9#





#78

n-propylbenzene

Concen: 1.295 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW010758.D

Acq: 10 Jun 2019 21:12

Instrument :

MSVOA_W

ClientSampleId :

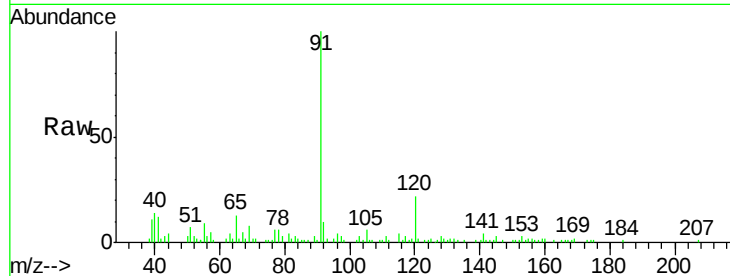
SB-12 0.5-1.0 060719

Tgt Ion: 91 Resp: 16808

Ion Ratio Lower Upper

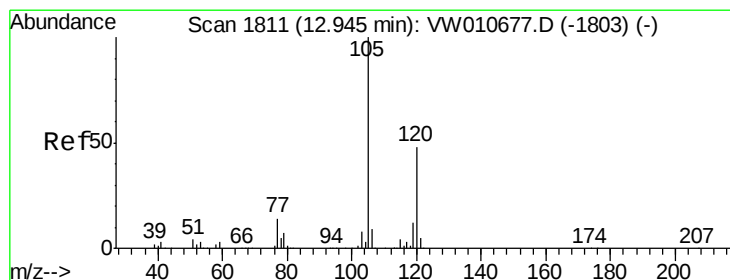
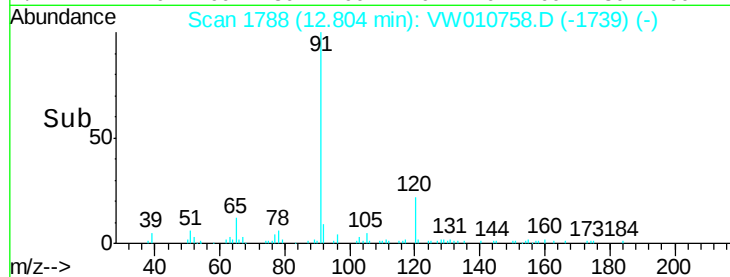
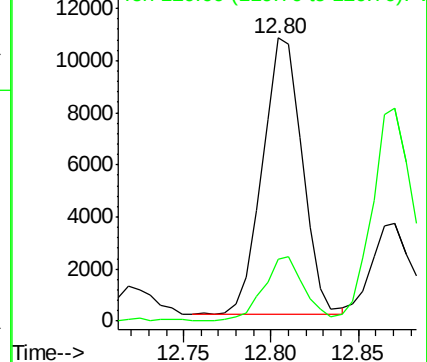
91 100

120 23.7 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 1.973 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW010758.D

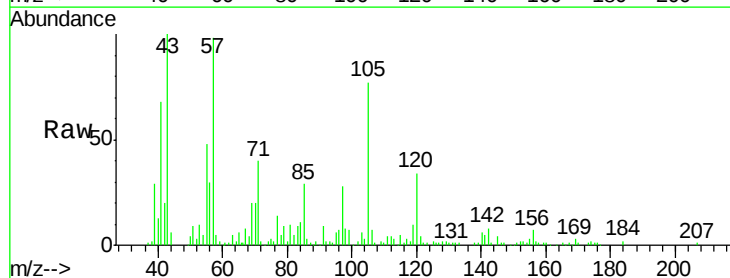
Acq: 10 Jun 2019 21:12

Tgt Ion: 105 Resp: 17383

Ion Ratio Lower Upper

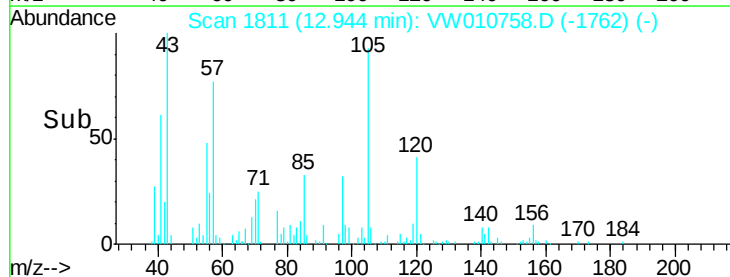
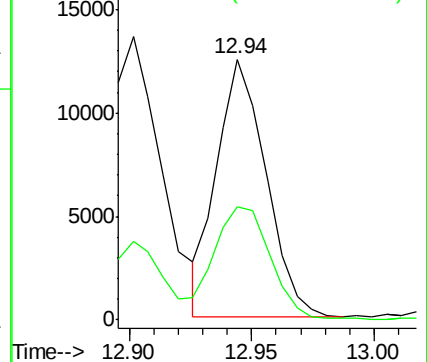
105 100

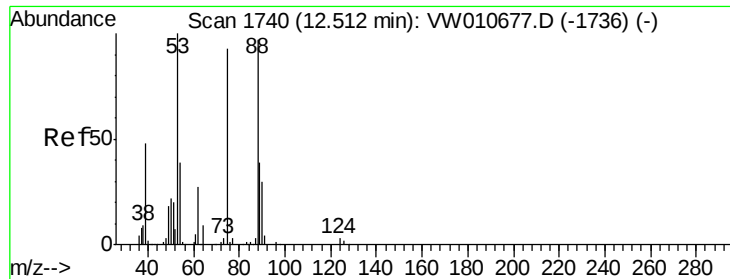
120 52.0 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

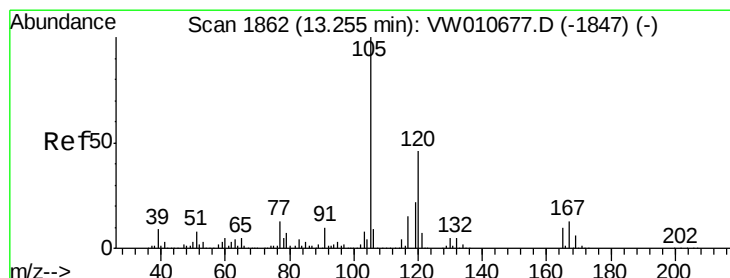
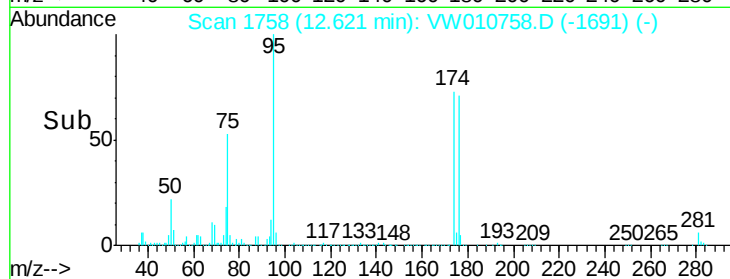
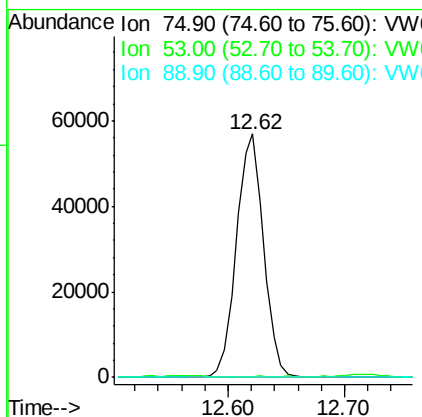
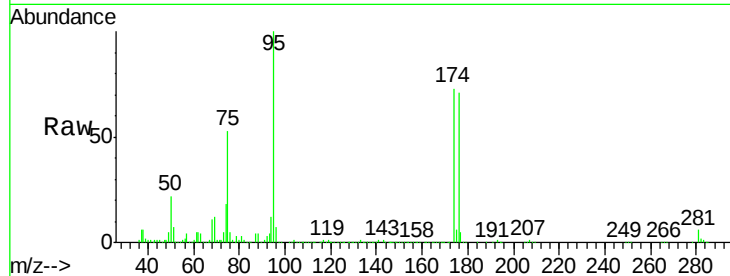




#81
 trans-1,4-Dichloro-2-butene
 Concen: 141.107 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

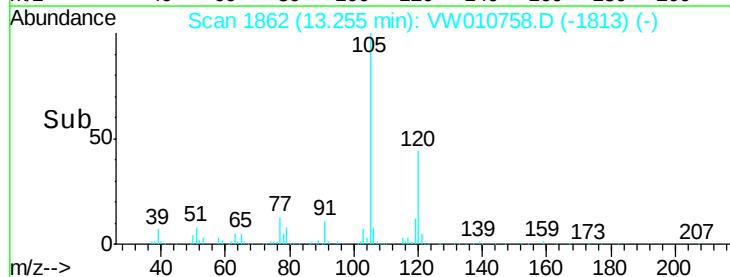
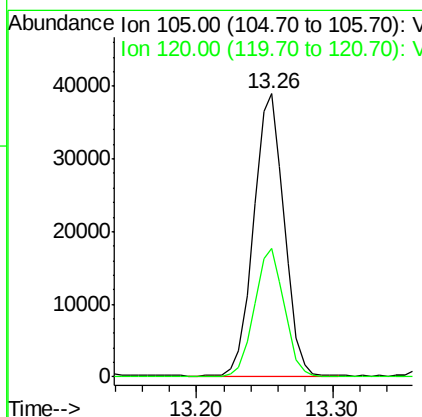
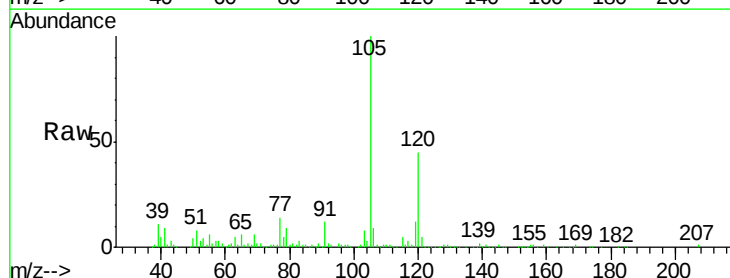
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-12 0.5-1.0 060719

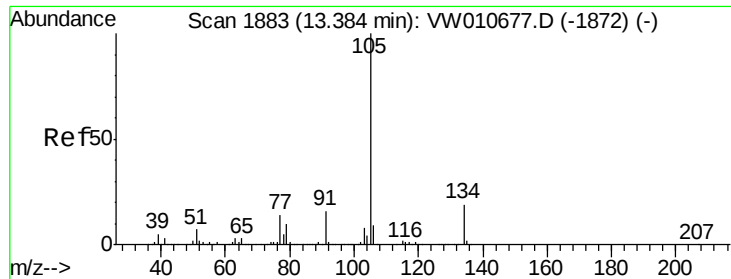
Tgt Ion: 75 Resp: 92364
 Ion Ratio Lower Upper
 75 100
 53 0.2 90.1 135.1#
 89 0.0 34.6 52.0#



#84
 1,2,4-Trimethylbenzene
 Concen: 6.867 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

Tgt Ion: 105 Resp: 60892
 Ion Ratio Lower Upper
 105 100
 120 45.1 22.5 67.5

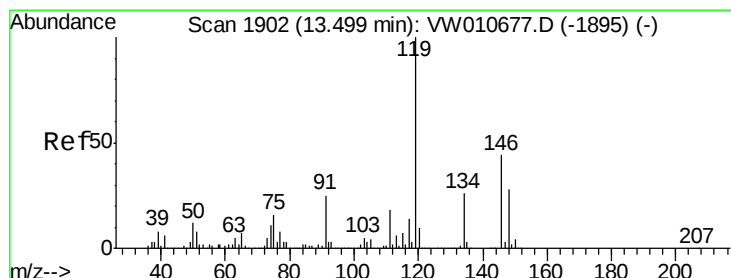
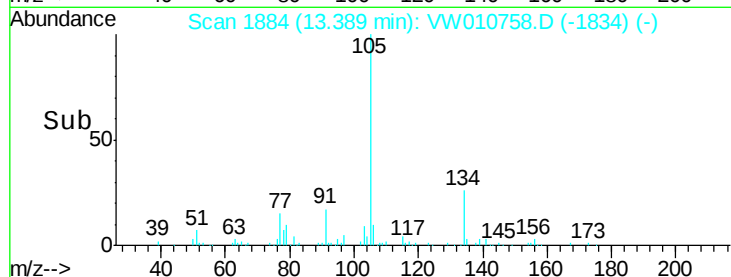
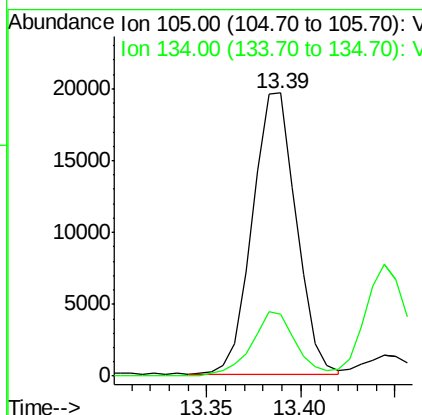
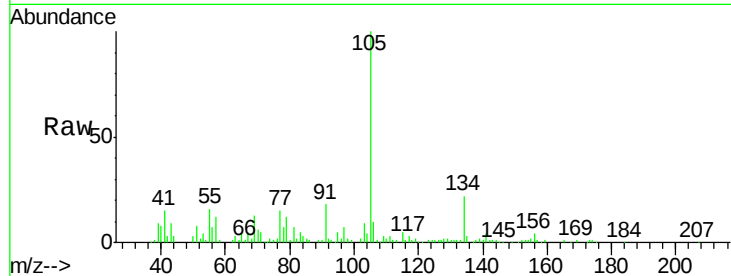




#85
 sec-Butylbenzene
 Concen: 2.900 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. 0.01 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

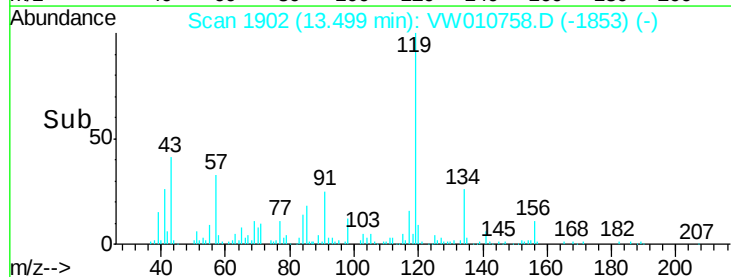
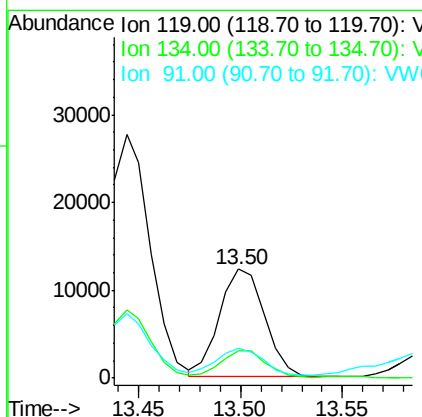
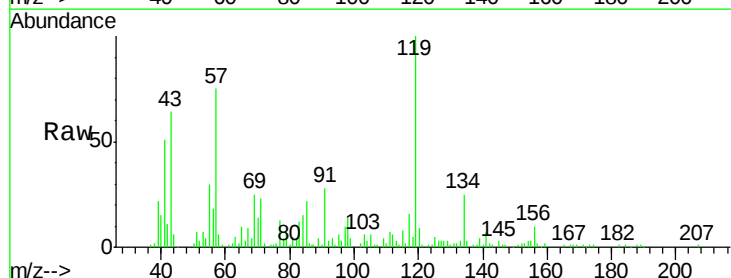
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-12 0.5-1.0 060719

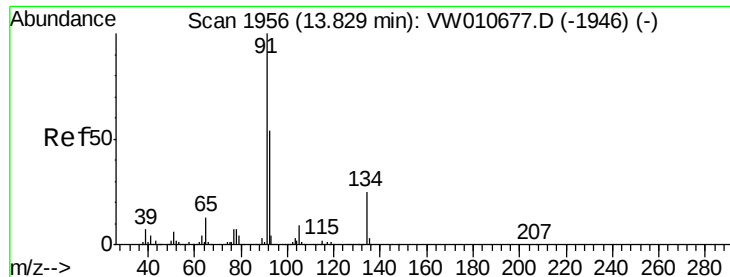
Tgt Ion:105 Resp: 31580
 Ion Ratio Lower Upper
 105 100
 134 23.2 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 1.934 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010758.D
 Acq: 10 Jun 2019 21:12

Tgt Ion:119 Resp: 18829
 Ion Ratio Lower Upper
 119 100
 134 25.4 13.0 39.0
 91 24.8 12.2 36.4

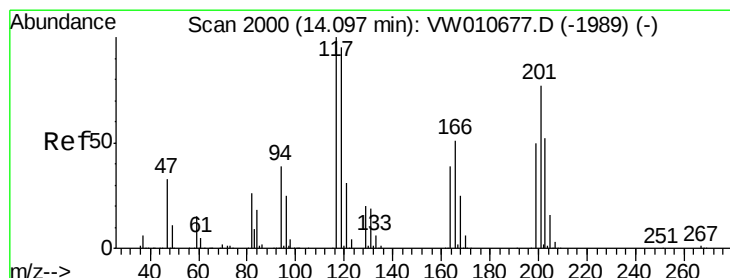
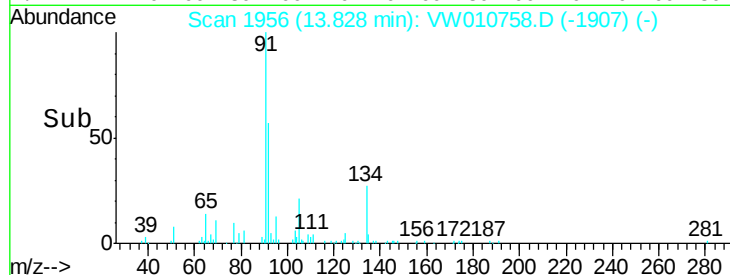
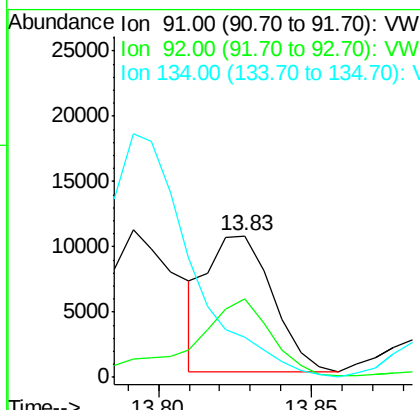
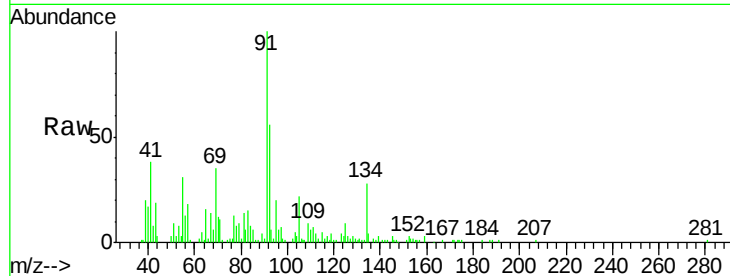




#89
n-Butylbenzene
Concen: 1.575 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW010758.D
Acq: 10 Jun 2019 21:12

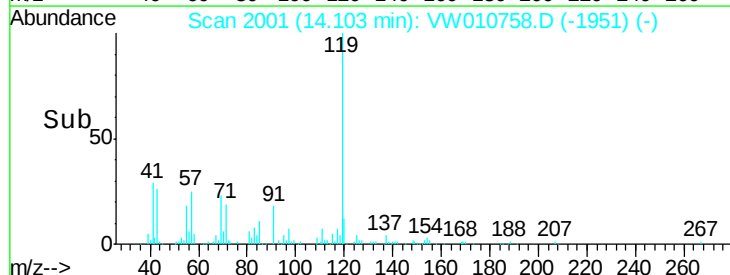
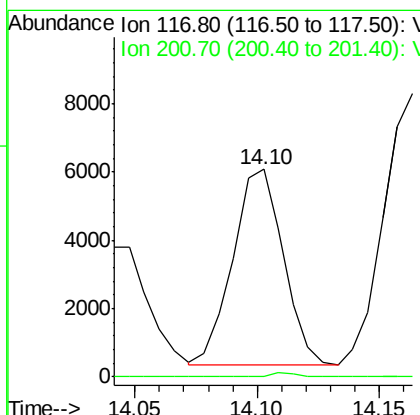
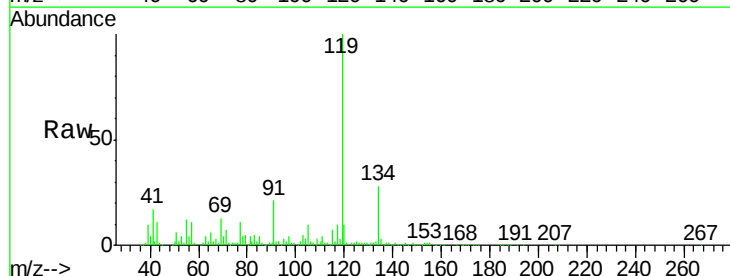
Instrument :
MSVOA_W
ClientSampleId :
SB-12 0.5-1.0 060719

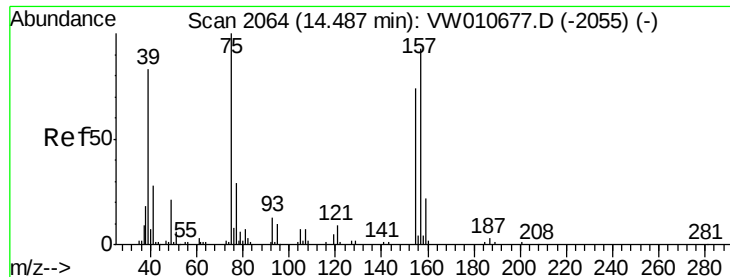
Tgt Ion: 91 Resp: 15296
Ion Ratio Lower Upper
91 100
92 67.8 27.3 81.8
134 0.0 12.3 36.9#



#90
Hexachloroethane
Concen: 4.718 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW010758.D
Acq: 10 Jun 2019 21:12

Tgt Ion: 117 Resp: 8226
Ion Ratio Lower Upper
117 100
201 1.0 38.8 116.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.938 ug/l

RT: 14.50 min Scan# 2067

Delta R.T. 0.02 min

Lab File: VW010758.D

Acq: 10 Jun 2019 21:12

Instrument :

MSVOA_W

ClientSampleId :

SB-12 0.5-1.0 060719

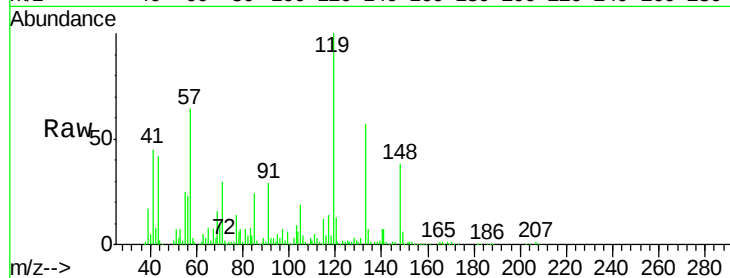
Tgt Ion: 75 Resp: 682

Ion Ratio Lower Upper

75 100

155 78.0 38.8 116.4

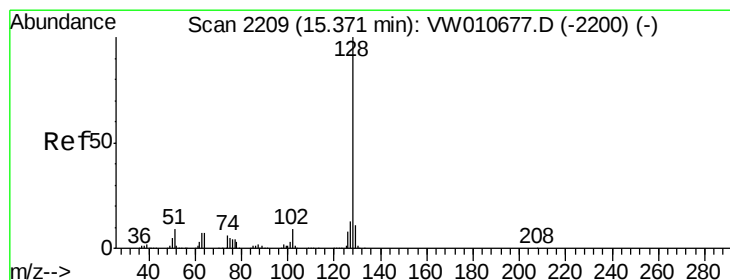
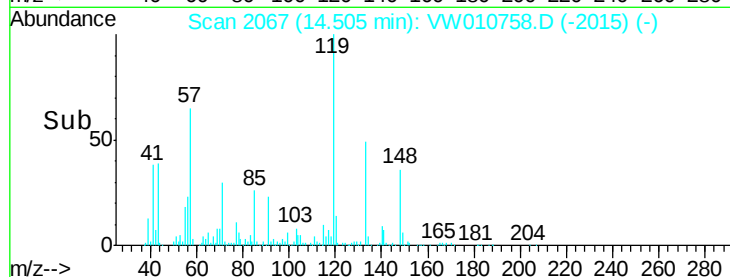
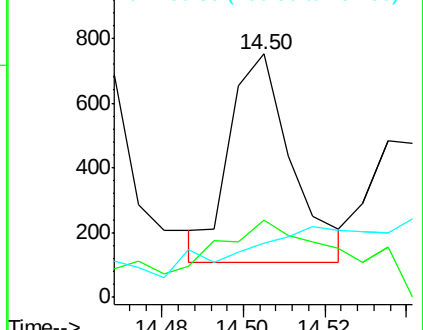
157 55.6 48.4 145.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 5.637 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010758.D

Acq: 10 Jun 2019 21:12

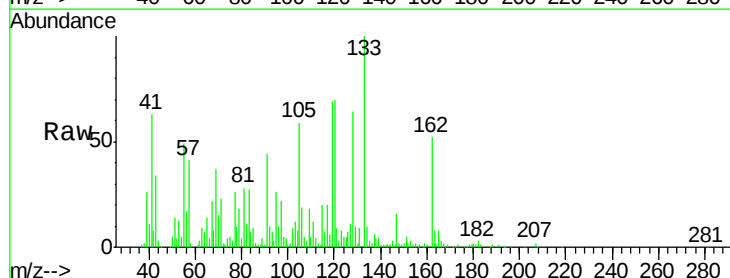
Tgt Ion: 128 Resp: 29289

Ion Ratio Lower Upper

128 100

127 7.4 10.6 15.8#

129 7.4 8.6 13.0#



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

