

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW062318\
 Data File : VW003461.D
 Acq On : 23 Jun 2018 15:36
 Operator : SY/AP
 Sample : J3664-04
 Misc : 6.46G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB482-17-19-180619

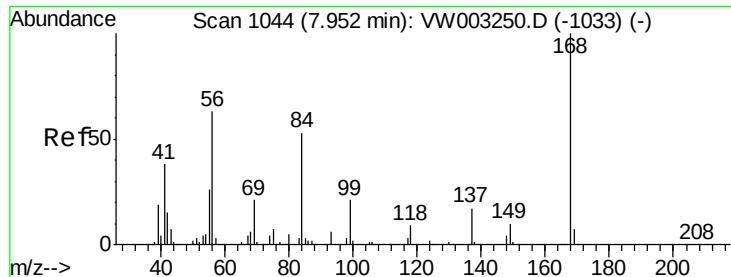
Quant Time: Jun 25 02:35:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W061318S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 05:18:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	201249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	333699	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	299665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	139394	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	78784	36.14	ug/l	0.00
Spiked Amount			Recovery	=	72.28%	
35) Dibromofluoromethane	7.88	113	65334	31.51	ug/l	0.00
Spiked Amount			Recovery	=	63.02%	
50) Toluene-d8	10.33	98	236030	28.71	ug/l	0.00
Spiked Amount			Recovery	=	57.42%	
62) 4-Bromofluorobenzene	12.63	95	82205	28.25	ug/l	0.00
Spiked Amount			Recovery	=	56.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	442	3.781	ug/l #	93
13) Acrolein	3.90	56	524	3.135	ug/l #	15
15) Acrylonitrile	5.39	53	529	1.304	ug/l #	49
16) Acetone	4.15	43	52637	115.135	ug/l	95
17) Carbon Disulfide	4.37	76	13995	2.598	ug/l #	93
20) Methylene Chloride	4.90	84	11206	2.266	ug/l	91
25) 2-Butanone	7.18	43	13291	23.380	ug/l	97
29) Tetrahydrofuran	7.54	42	1099	3.163	ug/l #	76
31) Cyclohexane	7.95	56	6008	1.706	ug/l #	15
37) Ethyl Acetate	7.18	43	13291	9.955	ug/l #	81
38) Carbon Tetrachloride	7.95	117	20547	6.500	ug/l #	16
40) Benzene	8.33	78	89255	10.048	ug/l	99
51) 4-Methyl-2-Pentanone	10.21	43	1940	1.436	ug/l	92
52) Toluene	10.40	92	7873	1.382	ug/l	98
59) 2-Hexanone	10.98	43	1256	1.331	ug/l	79
65) Chlorobenzene	11.66	112	17601	2.821	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	45000	37.763	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	45000	86.894	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

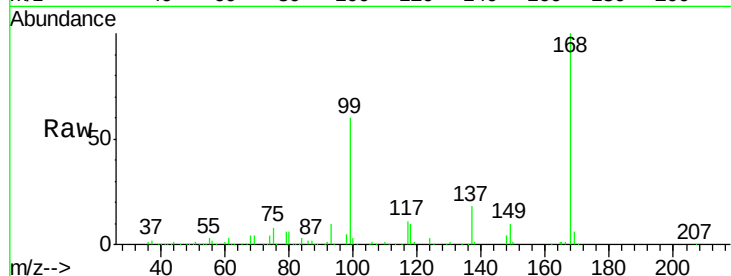
WP021SB482-17-19-180619

Tgt Ion:168 Resp: 201249

Ion Ratio Lower Upper

168 100

99 59.6 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

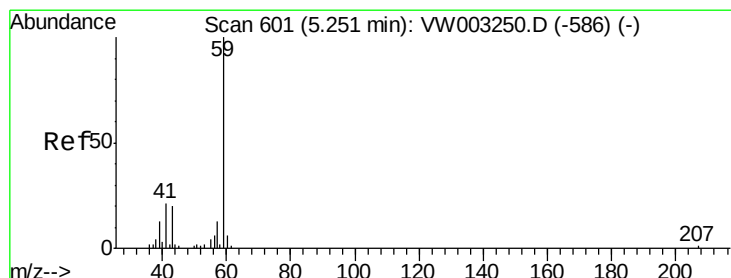
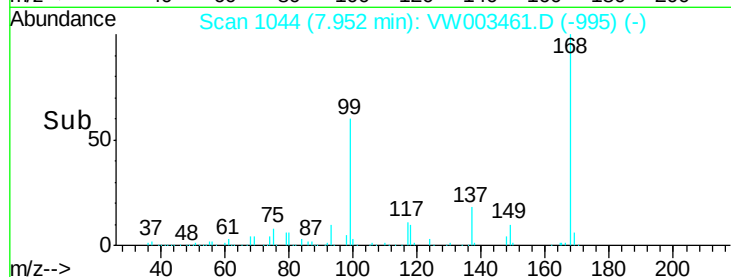
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.781 ug/l

RT: 5.26 min Scan# 602

Delta R.T. 0.01 min

Lab File: VW003461.D

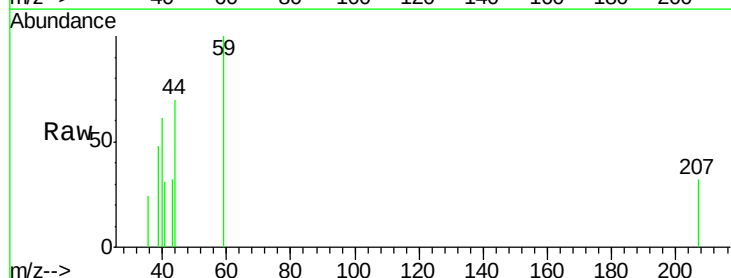
Acq: 23 Jun 2018 15:36

Tgt Ion: 59 Resp: 442

Ion Ratio Lower Upper

59 100

57 7.5 4.2 6.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.26

300

250

200

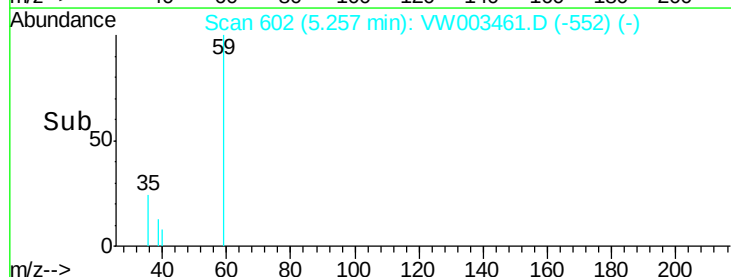
150

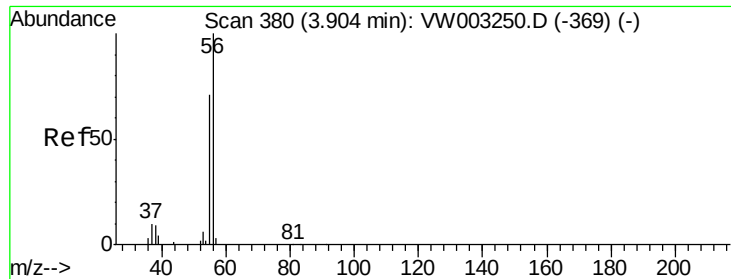
100

50

0

Time-->





#13

Acrolein

Concen: 3.135 ug/l

RT: 3.90 min Scan# 380

Delta R.T. 0.00 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

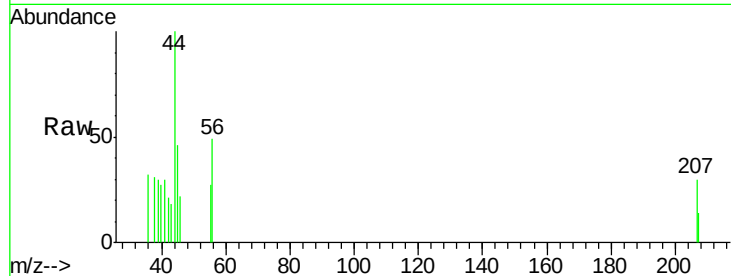
WP021SB482-17-19-180619

Tgt Ion: 56 Resp: 524

Ion Ratio Lower Upper

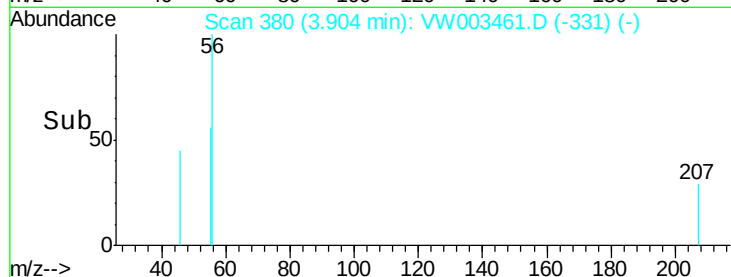
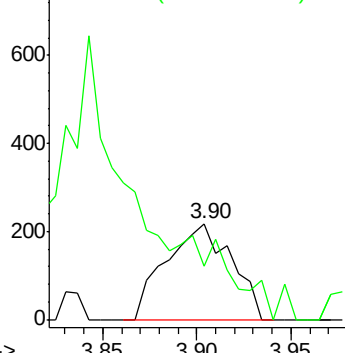
56 100

55 0.0 55.4 83.2#

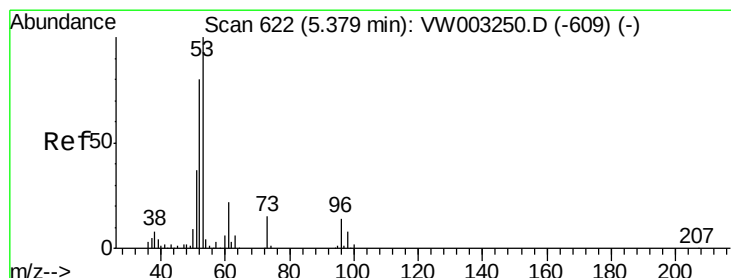


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



Time-->



#15

Acrylonitrile

Concen: 1.304 ug/l

RT: 5.39 min Scan# 623

Delta R.T. 0.01 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

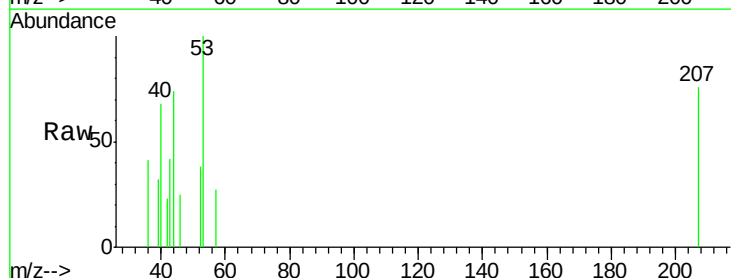
Tgt Ion: 53 Resp: 529

Ion Ratio Lower Upper

53 100

52 42.7 66.6 100.0#

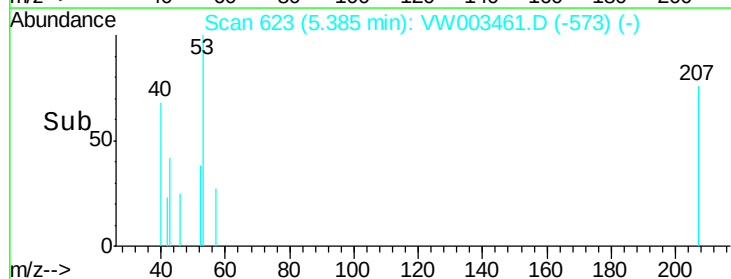
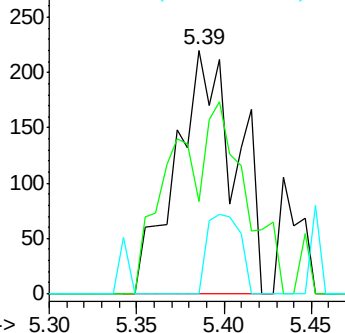
51 0.0 30.6 46.0#



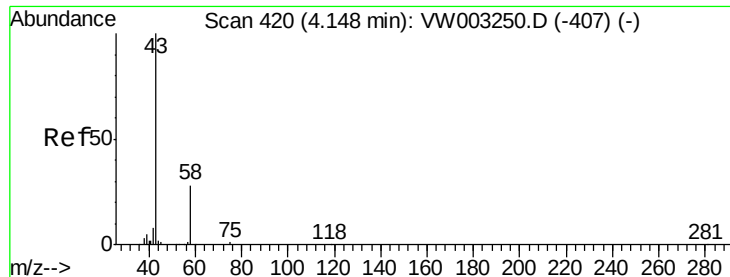
Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



Time-->



#16

Acetone

Concen: 115.135 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

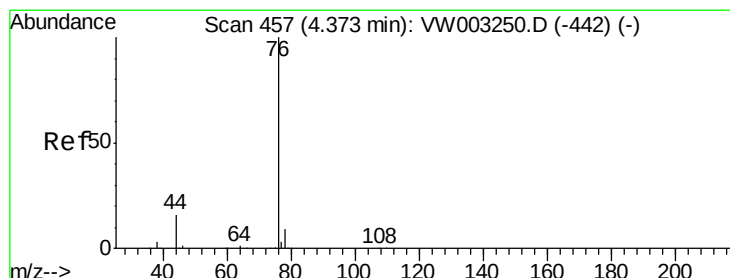
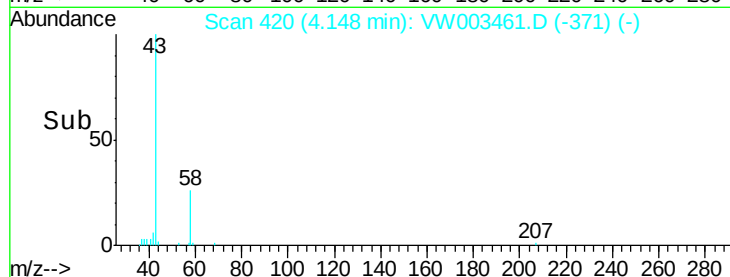
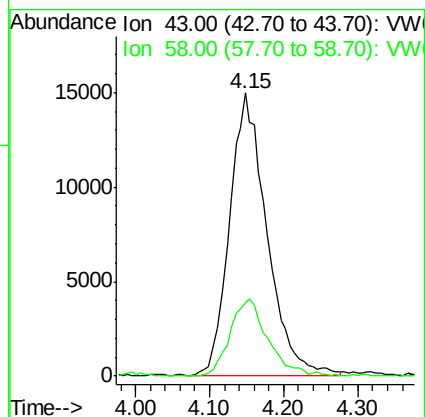
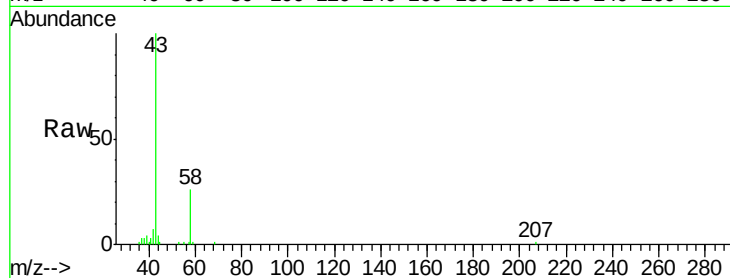
WP021SB482-17-19-180619

Tgt Ion: 43 Resp: 52637

Ion Ratio Lower Upper

43 100

58 25.9 22.6 34.0



#17

Carbon Disulfide

Concen: 2.598 ug/l

RT: 4.37 min Scan# 456

Delta R.T. -0.01 min

Lab File: VW003461.D

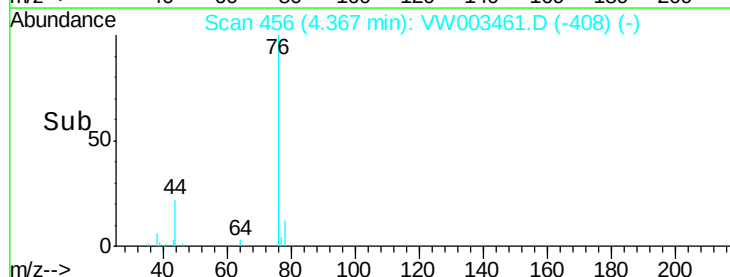
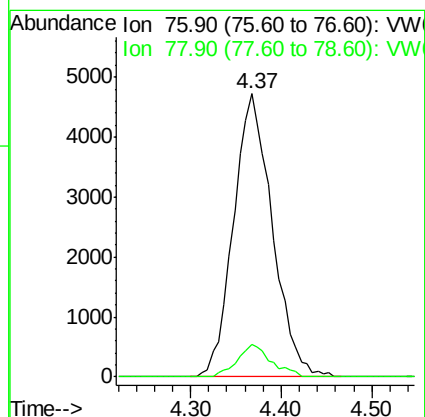
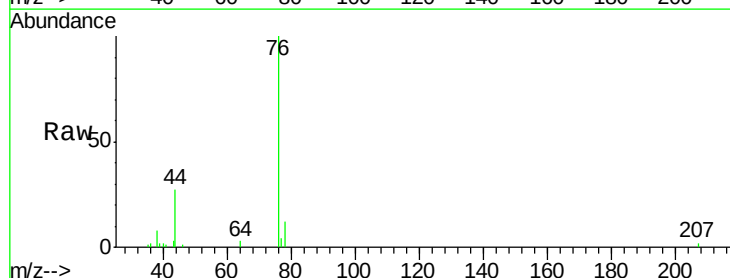
Acq: 23 Jun 2018 15:36

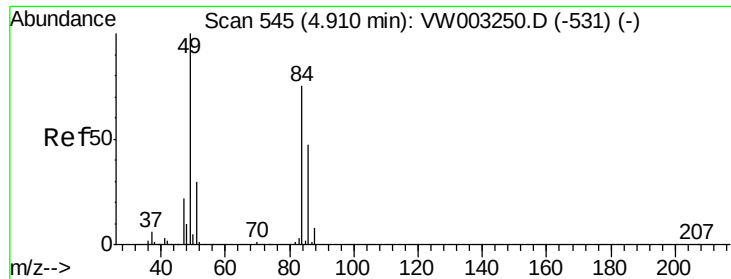
Tgt Ion: 76 Resp: 13995

Ion Ratio Lower Upper

76 100

78 11.5 7.1 10.7#

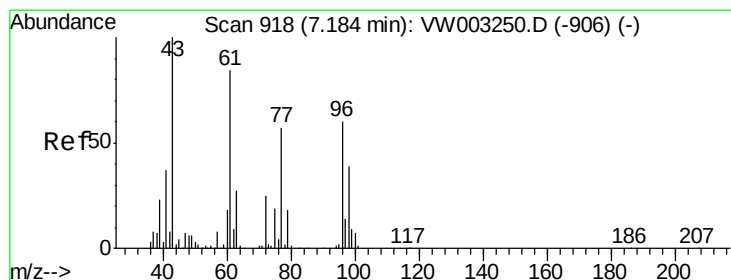
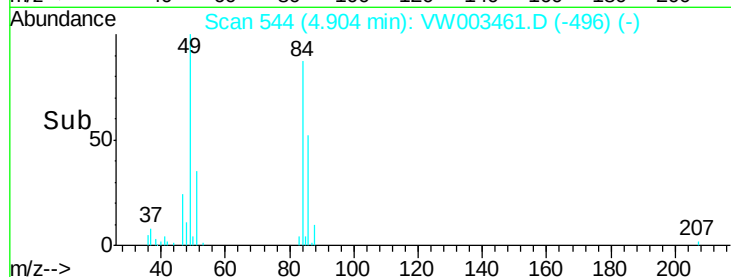
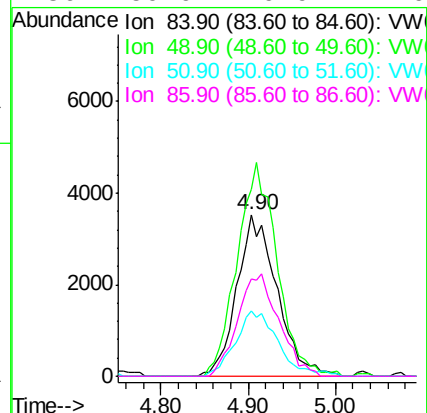
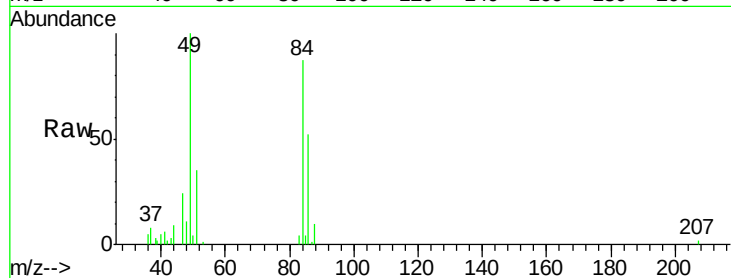




#20
Methylene Chloride
Concen: 2.266 ug/l
RT: 4.90 min Scan# 544
Delta R.T. -0.01 min
Lab File: VW003461.D
Acq: 23 Jun 2018 15:36

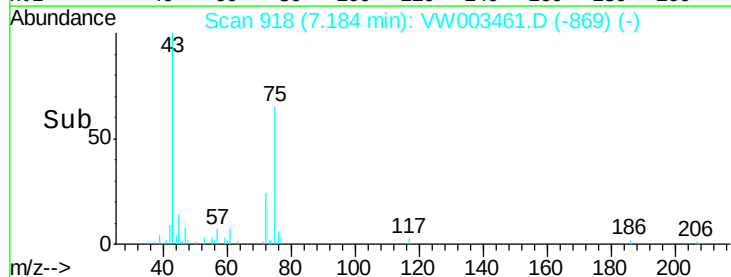
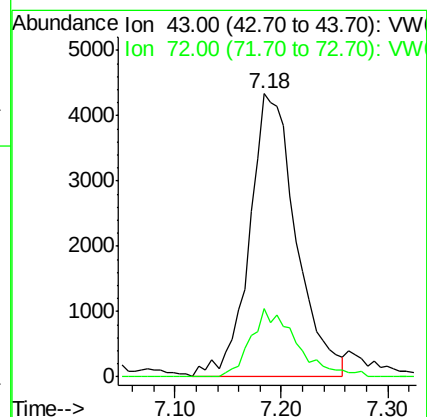
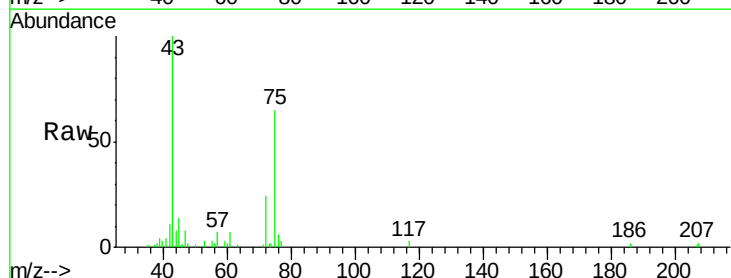
Instrument :
MSVOA_W
ClientSampleId :
WP021SB482-17-19-180619

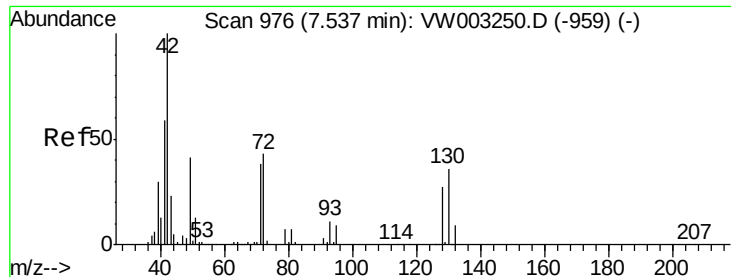
Tgt Ion:	84	Resp:	11206
Ion	Ratio	Lower	Upper
84	100		
49	115.3	106.3	159.5
51	40.5	32.0	48.0
86	59.9	49.9	74.9



#25
2-Butanone
Concen: 23.380 ug/l
RT: 7.18 min Scan# 918
Delta R.T. 0.00 min
Lab File: VW003461.D
Acq: 23 Jun 2018 15:36

Tgt Ion:	43	Resp:	13291
Ion	Ratio	Lower	Upper
43	100		
72	24.0	20.3	30.5

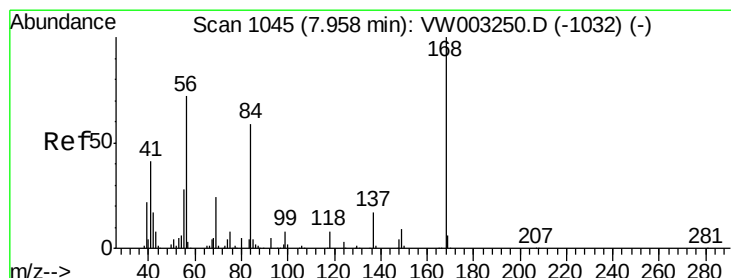
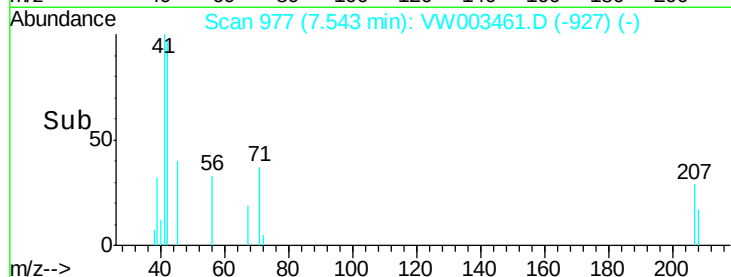
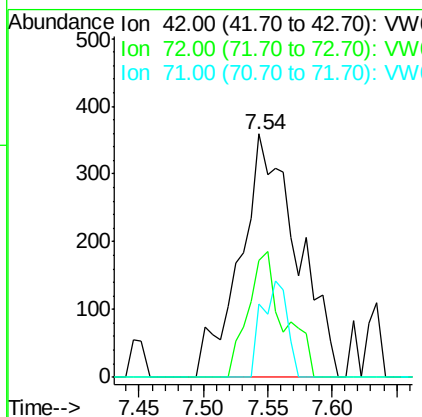
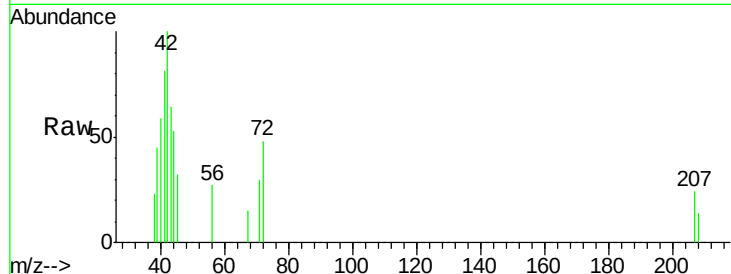




#29
Tetrahydrofuran
Concen: 3.163 ug/l
RT: 7.54 min Scan# 977
Delta R.T. 0.01 min
Lab File: VW003461.D
Acq: 23 Jun 2018 15:36

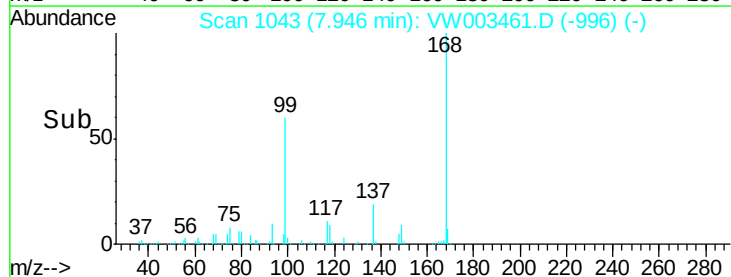
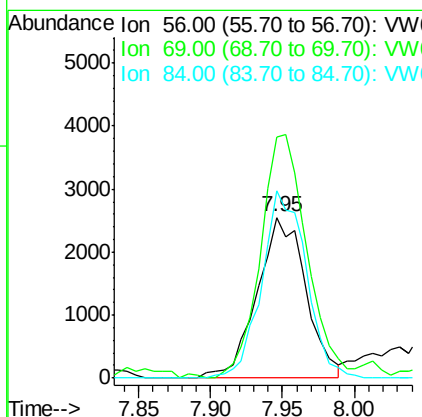
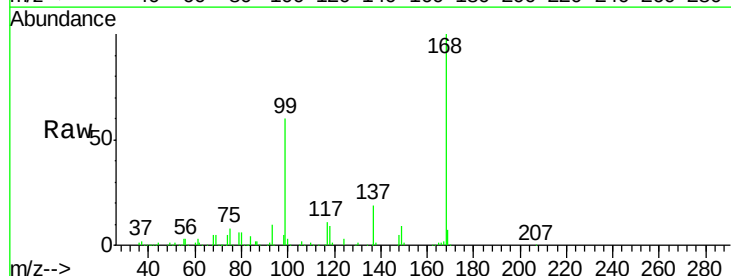
Instrument :
MSVOA_W
ClientSampleId :
WP021SB482-17-19-180619

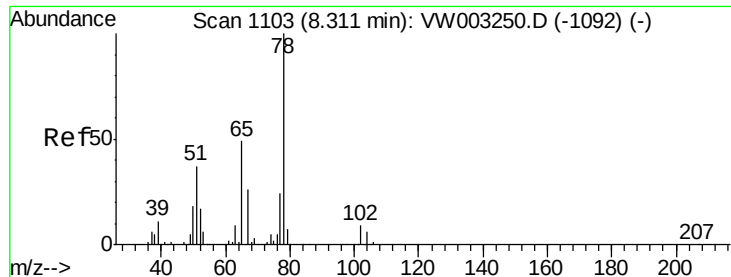
Tgt Ion: 42 Resp: 1099
Ion Ratio Lower Upper
42 100
72 32.6 32.4 48.6
71 17.5 31.2 46.8#



#31
Cyclohexane
Concen: 1.706 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW003461.D
Acq: 23 Jun 2018 15:36

Tgt Ion: 56 Resp: 6008
Ion Ratio Lower Upper
56 100
69 147.0 26.3 39.5#
84 116.4 65.7 98.5#

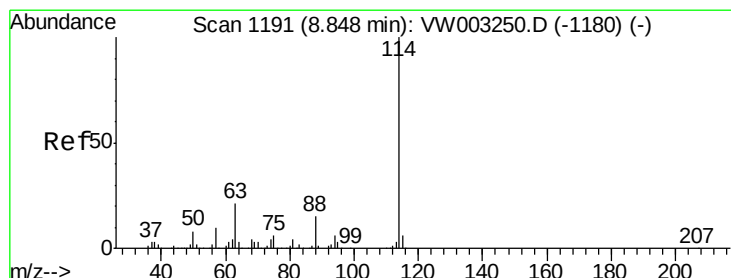
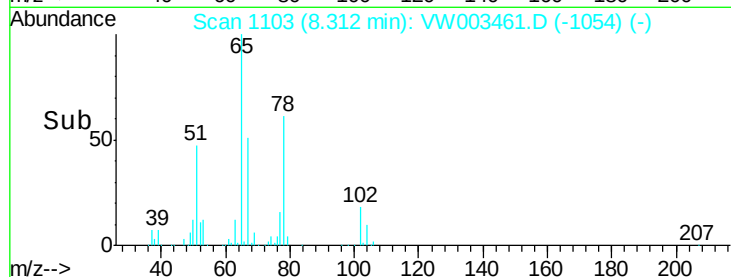
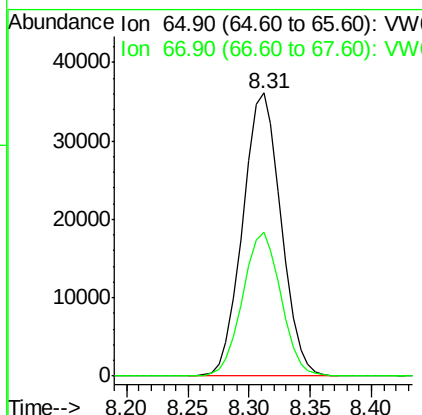
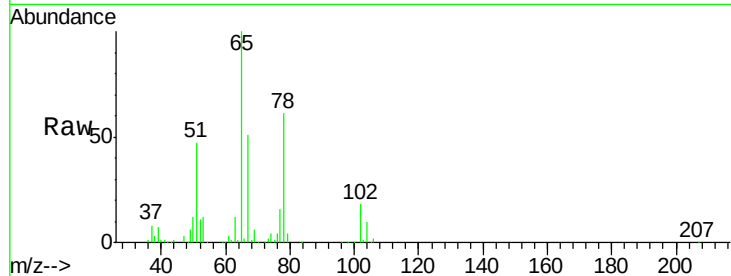




#33
 1,2-Dichloroethane-d4
 Concen: 36.142 ug/l
 RT: 8.31 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VW003461.D
 Acq: 23 Jun 2018 15:36

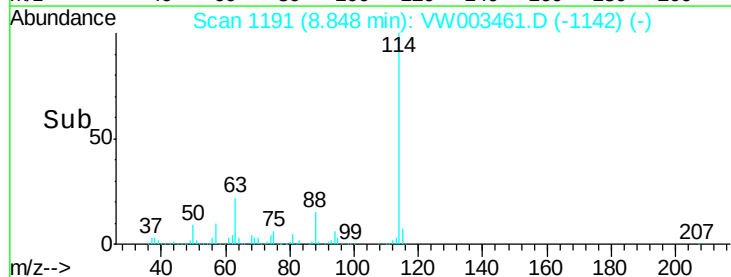
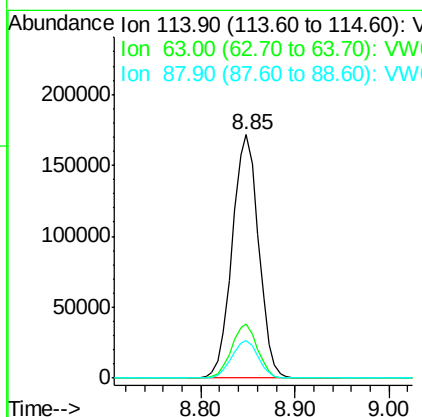
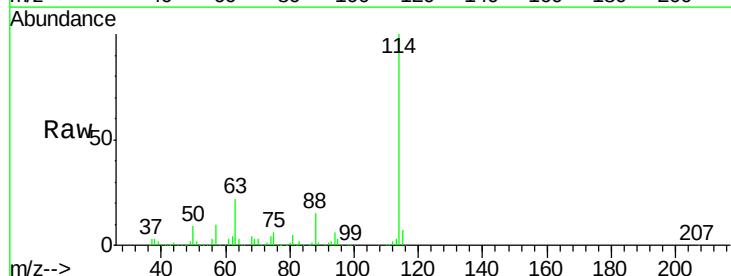
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB482-17-19-180619

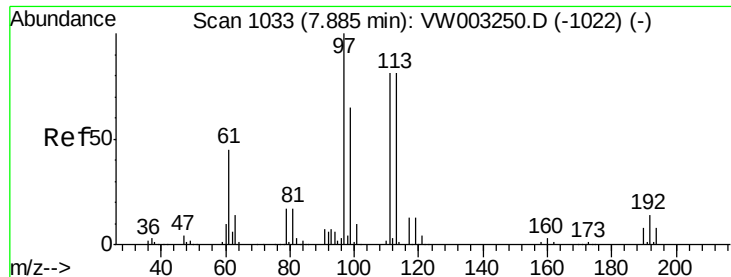
Tgt Ion: 65 Resp: 78784
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW003461.D
 Acq: 23 Jun 2018 15:36

Tgt Ion: 114 Resp: 333699
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.0
 88 15.4 0.0 29.6

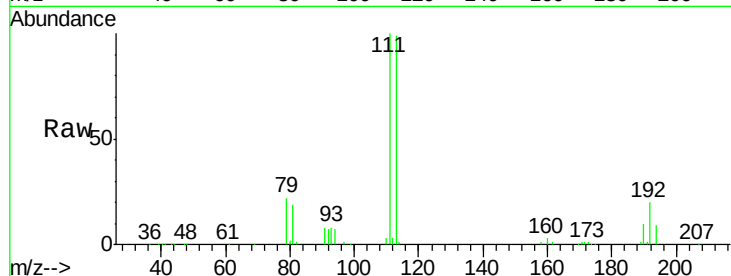




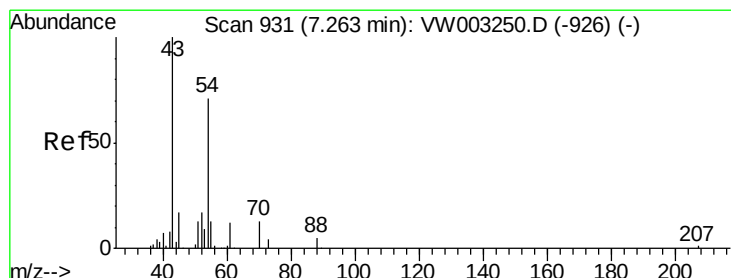
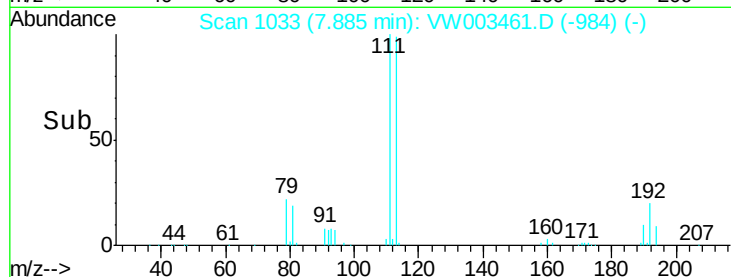
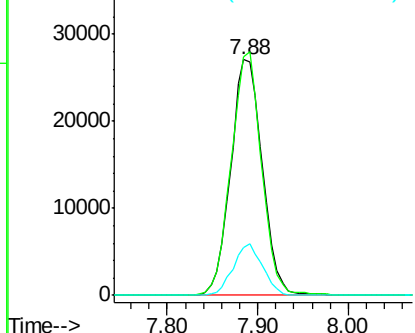
#35
 Dibromofluoromethane
 Concen: 31.509 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. 0.00 min
 Lab File: VW003461.D
 Acq: 23 Jun 2018 15:36

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB482-17-19-180619

Tgt Ion: 113 Resp: 65334
 Ion Ratio Lower Upper
 113 100
 111 99.6 82.2 123.2
 192 20.3 16.2 24.2

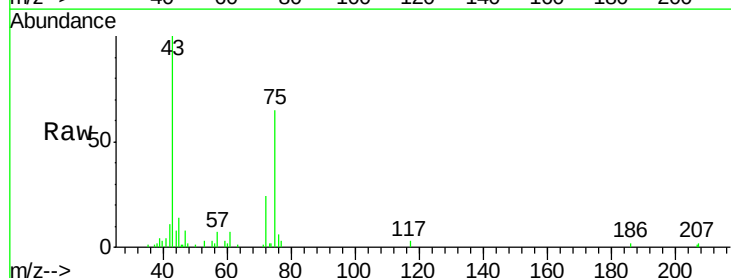


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

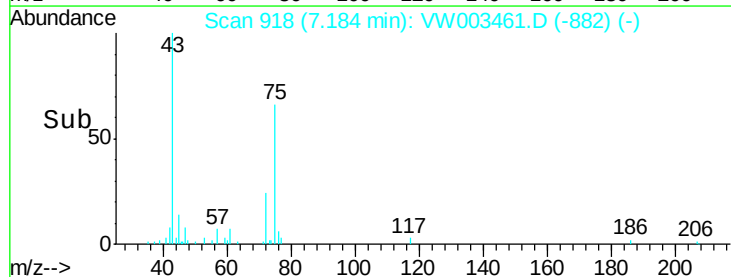
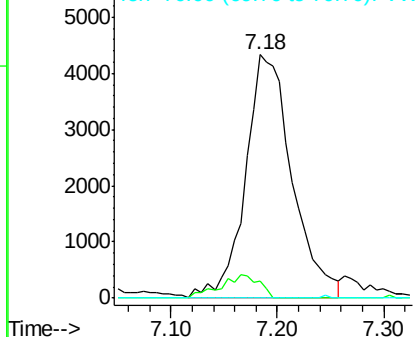


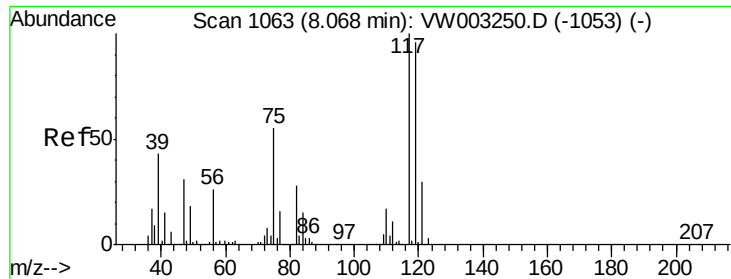
#37
 Ethyl Acetate
 Concen: 9.955 ug/l
 RT: 7.18 min Scan# 918
 Delta R.T. -0.08 min
 Lab File: VW003461.D
 Acq: 23 Jun 2018 15:36

Tgt Ion: 43 Resp: 13291
 Ion Ratio Lower Upper
 43 100
 61 7.9 10.8 16.2#
 70 0.0 7.8 11.6#



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: 6.500 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

WP021SB482-17-19-180619

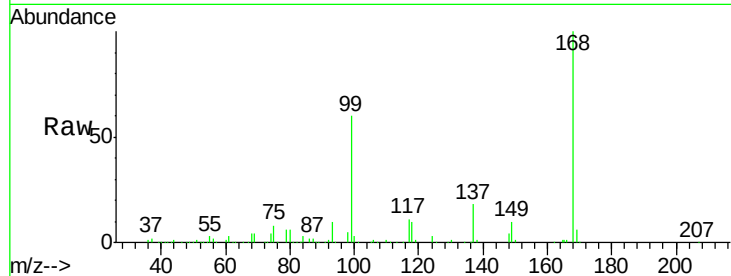
Tgt Ion:117 Resp: 20547

Ion Ratio Lower Upper

117 100

119 5.3 76.6 115.0#

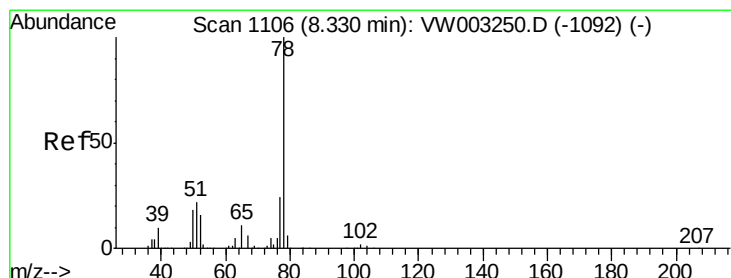
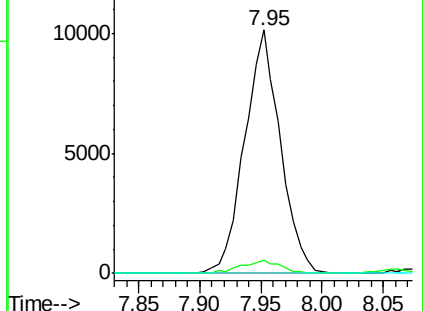
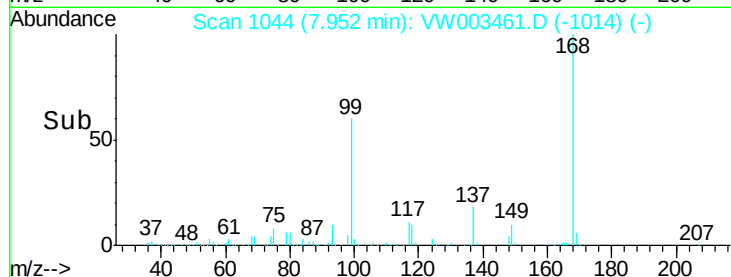
121 0.0 23.9 35.9#



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



#40

Benzene

Concen: 10.048 ug/l

RT: 8.33 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VW003461.D

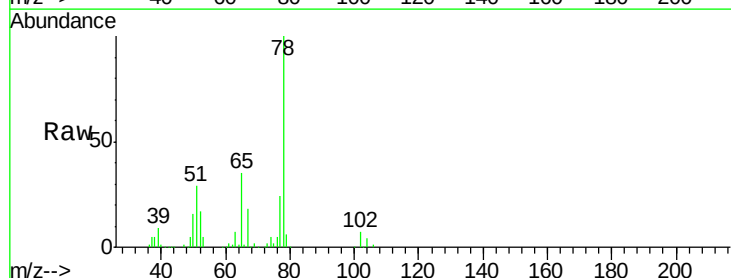
Acq: 23 Jun 2018 15:36

Tgt Ion: 78 Resp: 89255

Ion Ratio Lower Upper

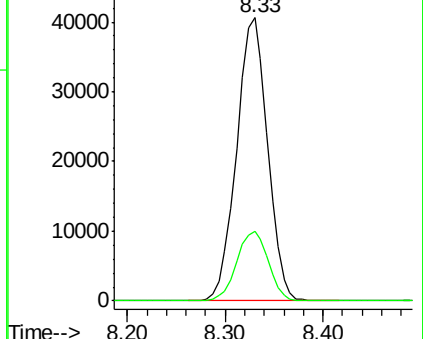
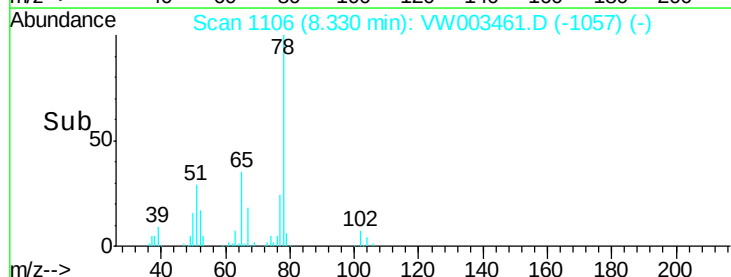
78 100

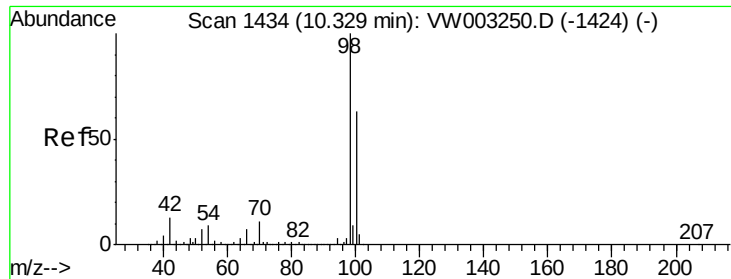
77 24.5 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW





#50

Toluene-d8

Concen: 28.707 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

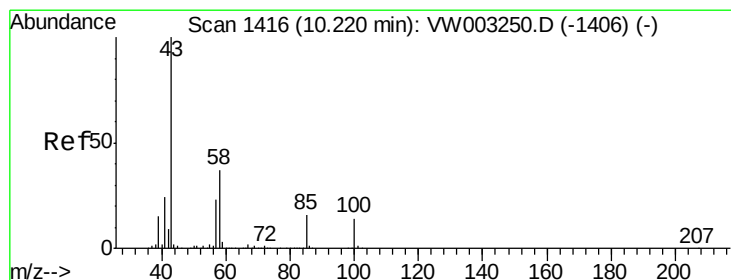
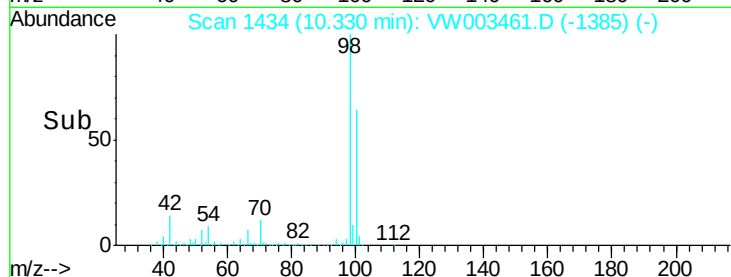
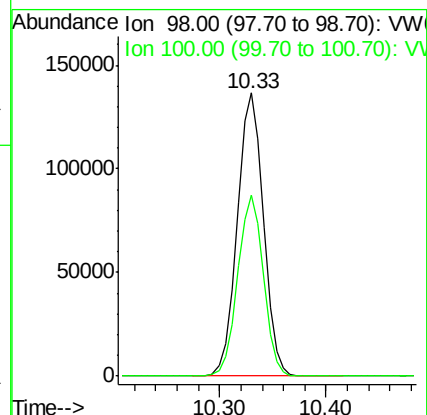
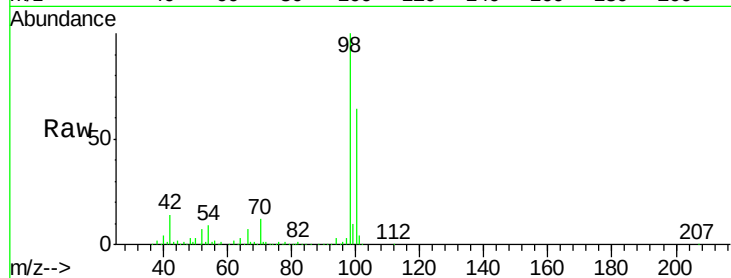
WP021SB482-17-19-180619

Tgt Ion: 98 Resp: 236030

Ion Ratio Lower Upper

98 100

100 62.7 50.8 76.2



#51

4-Methyl-2-Pentanone

Concen: 1.436 ug/l

RT: 10.21 min Scan# 1415

Delta R.T. -0.01 min

Lab File: VW003461.D

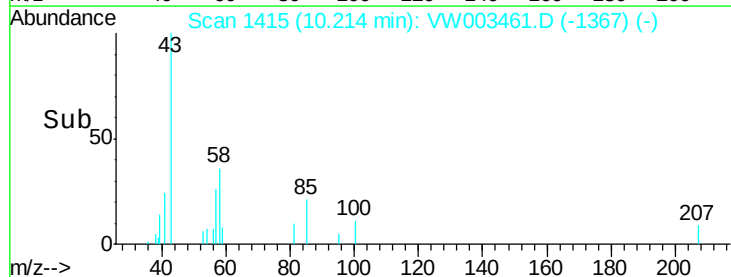
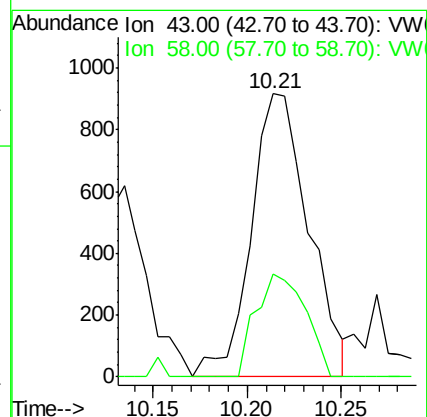
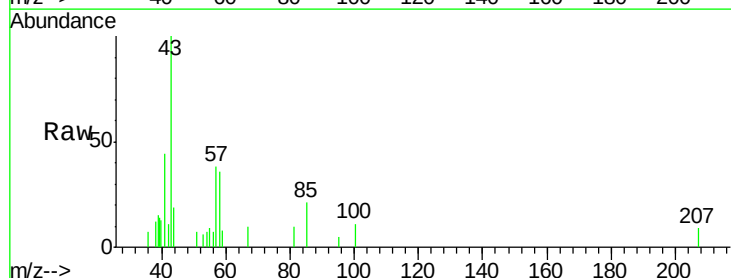
Acq: 23 Jun 2018 15:36

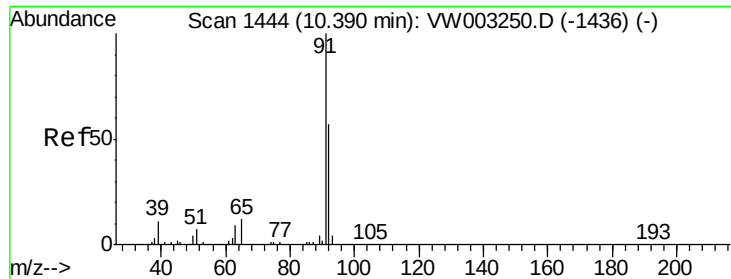
Tgt Ion: 43 Resp: 1940

Ion Ratio Lower Upper

43 100

58 31.5 29.0 43.4





#52

Toluene

Concen: 1.382 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. 0.01 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

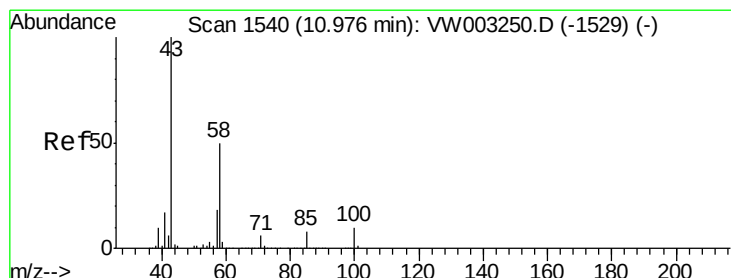
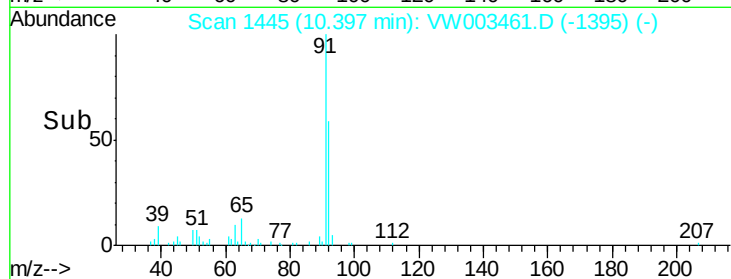
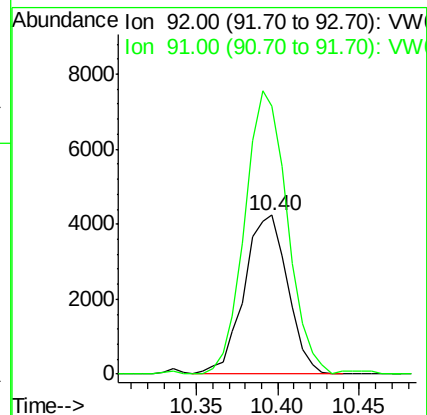
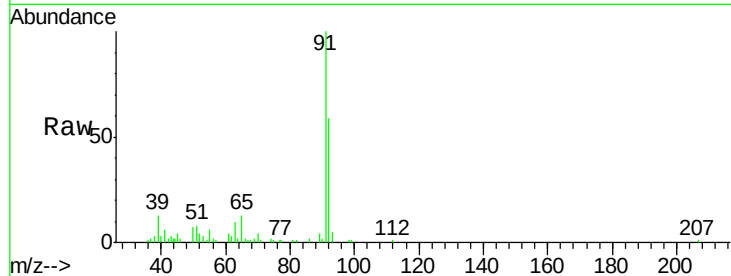
WP021SB482-17-19-180619

Tgt Ion: 92 Resp: 7873

Ion Ratio Lower Upper

92 100

91 174.0 141.1 211.7



#59

2-Hexanone

Concen: 1.331 ug/l

RT: 10.98 min Scan# 1540

Delta R.T. 0.00 min

Lab File: VW003461.D

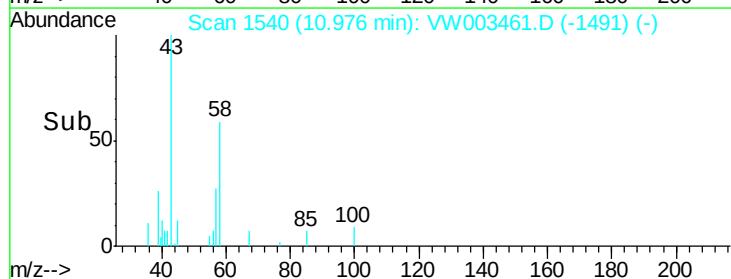
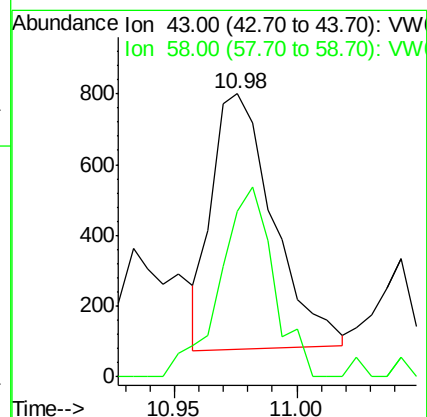
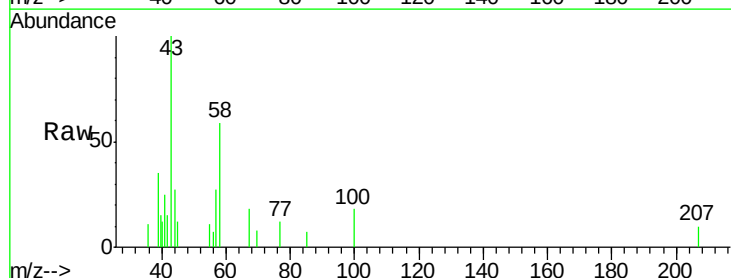
Acq: 23 Jun 2018 15:36

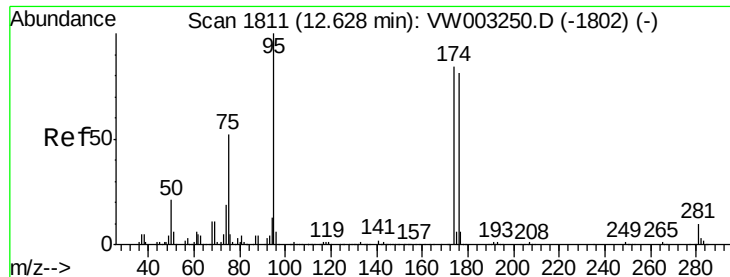
Tgt Ion: 43 Resp: 1256

Ion Ratio Lower Upper

43 100

58 64.7 25.0 75.0





#62

4-Bromofluorobenzene

Concen: 28.252 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

WP021SB482-17-19-180619

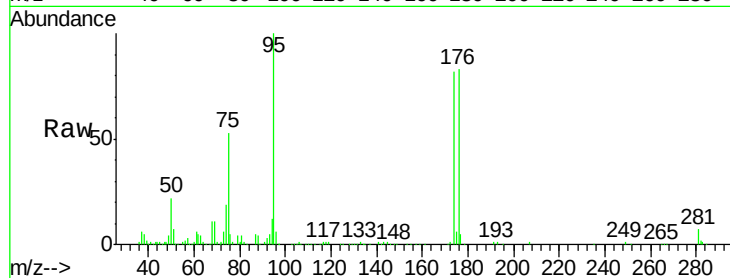
Tgt Ion: 95 Resp: 82205

Ion Ratio Lower Upper

95 100

174 83.0 0.0 166.4

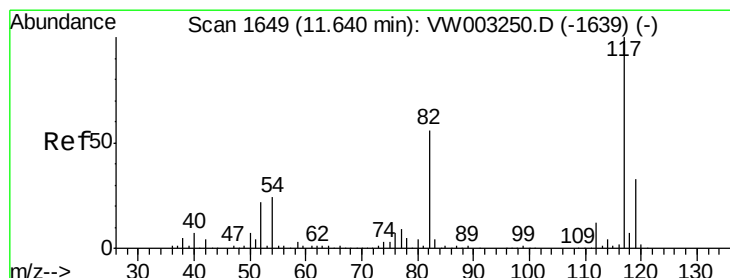
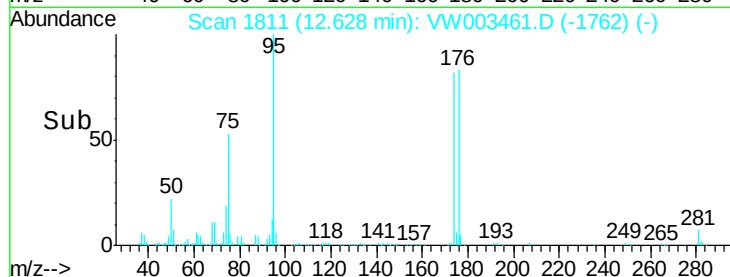
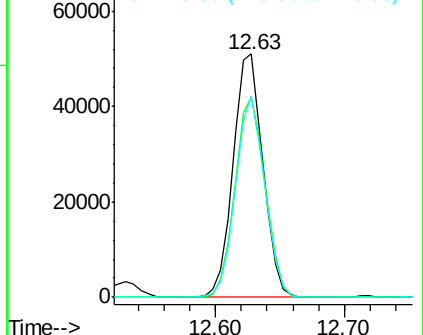
176 80.4 0.0 162.0



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1648

Delta R.T. -0.01 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

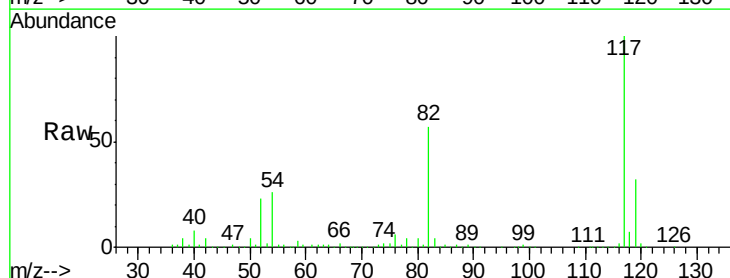
Tgt Ion: 117 Resp: 299665

Ion Ratio Lower Upper

117 100

82 57.1 44.6 67.0

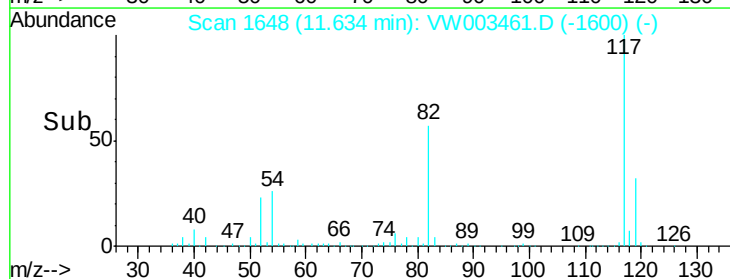
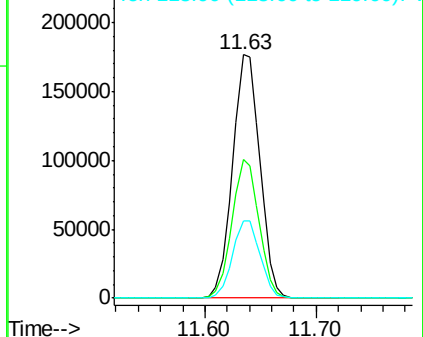
119 31.7 26.7 40.1

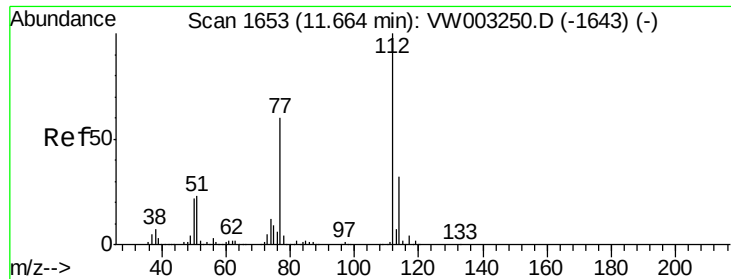


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#65

Chlorobenzene

Concen: 2.821 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

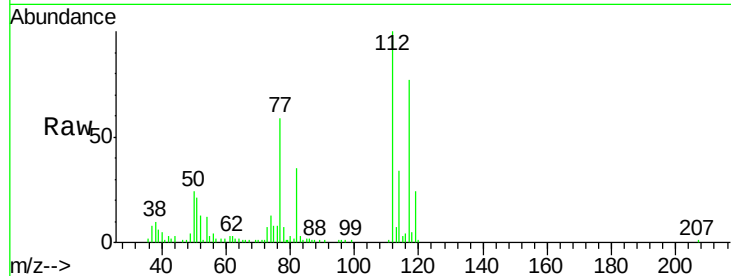
WP021SB482-17-19-180619

Tgt Ion:112 Resp: 17601

Ion Ratio Lower Upper

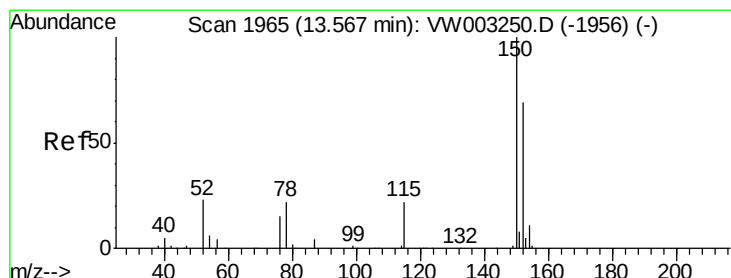
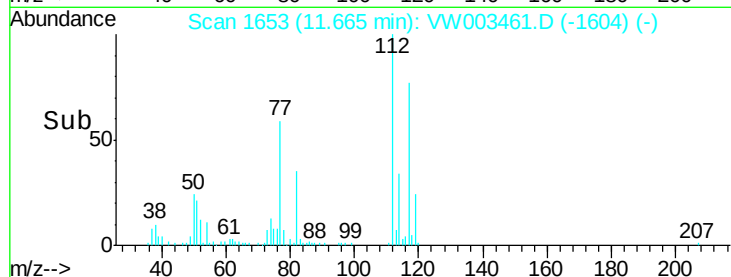
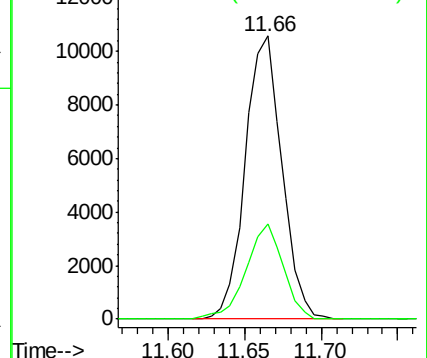
112 100

114 33.8 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

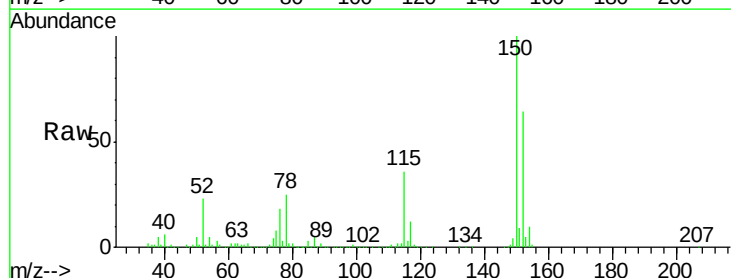
Tgt Ion:152 Resp: 139394

Ion Ratio Lower Upper

152 100

115 57.9 29.3 88.0

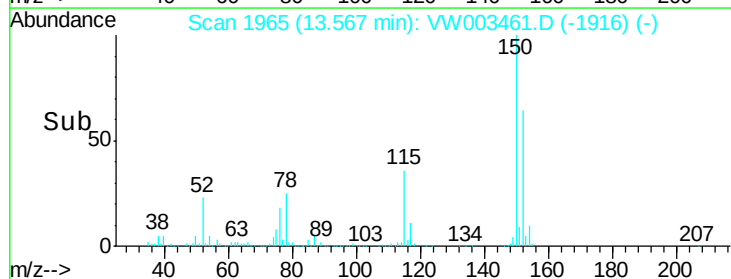
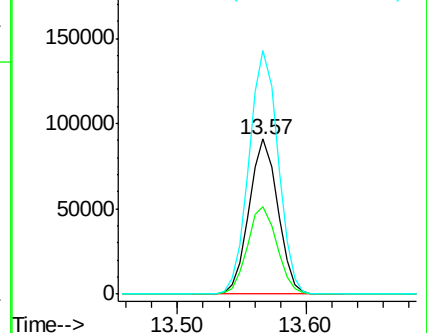
150 159.5 0.0 349.6

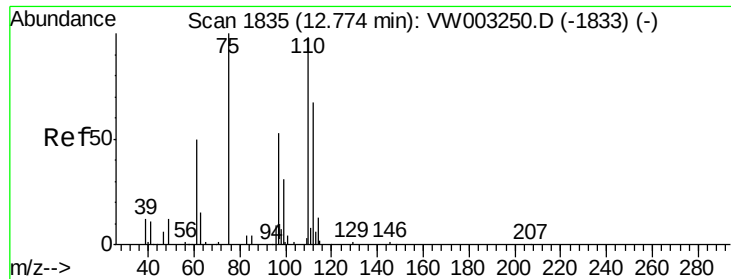


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 37.763 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Instrument :

MSVOA_W

ClientSampleId :

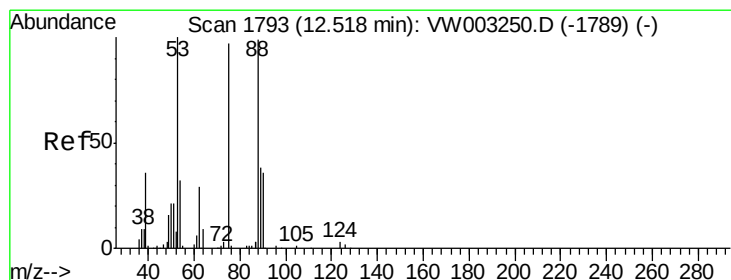
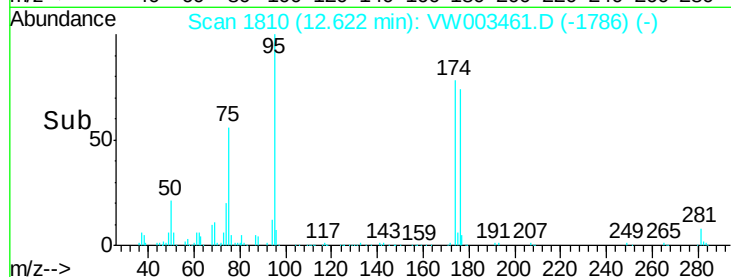
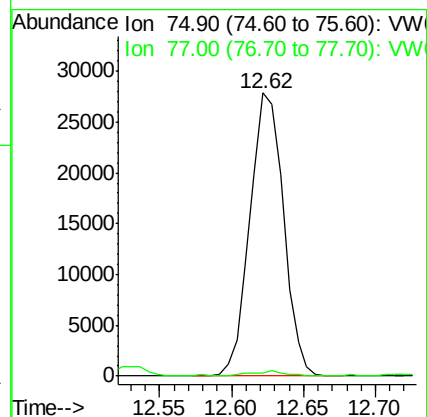
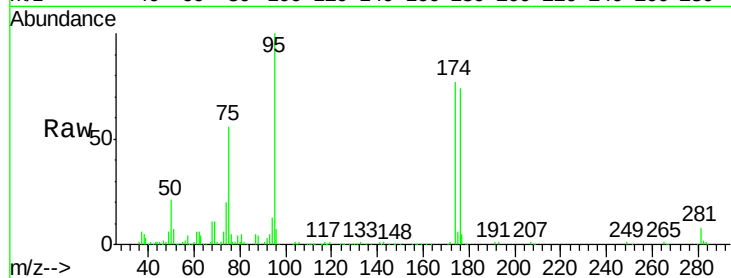
WP021SB482-17-19-180619

Tgt Ion: 75 Resp: 45000

Ion Ratio Lower Upper

75 100

77 2.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 86.894 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003461.D

Acq: 23 Jun 2018 15:36

Tgt Ion: 75 Resp: 45000

Ion Ratio Lower Upper

75 100

53 0.5 82.9 124.3#

89 0.1 36.7 55.1#

