

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW062318\
 Data File : VW003473.D
 Acq On : 23 Jun 2018 20:46
 Operator : SY/AP
 Sample : J3664-16
 Misc : 6.30G/5ML/MSVOA_W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB485-27-29-180619

Quant Time: Jun 25 02:39:51 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	247052	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	415253	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	371290	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	182166	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	103762	38.78	ug/l	0.00
Spiked Amount			Recovery	=	77.56%	
35) Dibromofluoromethane	7.89	113	94220	36.52	ug/l	0.00
Spiked Amount			Recovery	=	73.04%	
50) Toluene-d8	10.33	98	359874	35.17	ug/l	0.00
Spiked Amount			Recovery	=	70.34%	
62) 4-Bromofluorobenzene	12.63	95	139627	38.56	ug/l	0.00
Spiked Amount			Recovery	=	77.12%	

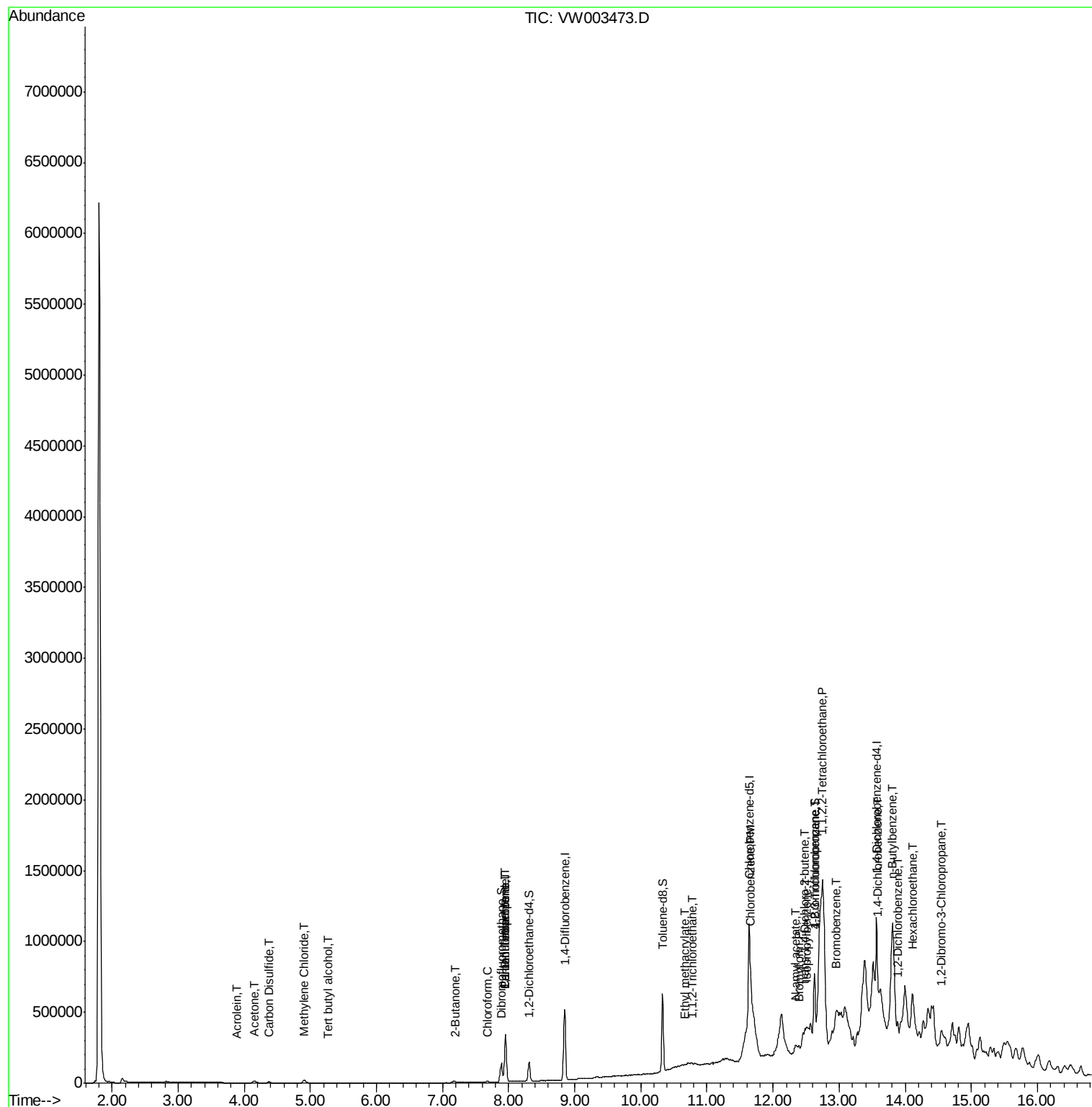
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	156	1.087	ug/l #	84
13) Acrolein	3.90	56	293	1.428	ug/l #	26
16) Acetone	4.15	43	31747	56.567	ug/l	93
17) Carbon Disulfide	4.37	76	19308	2.920	ug/l #	95
20) Methylene Chloride	4.91	84	14682	2.685	ug/l	93
25) 2-Butanone	7.20	43	7320	10.489	ug/l	99
30) Chloroform	7.68	83	6106	1.295	ug/l	87
36) 1,1-Dichloropropene	7.95	75	19961	4.977	ug/l #	51
38) Carbon Tetrachloride	7.95	117	24632	6.262	ug/l #	17
55) 1,1,2-Trichloroethane	10.78	97	2620	1.290	ug/l #	26
56) Ethyl methacrylate	10.66	69	2885	1.170	ug/l #	29
65) Chlorobenzene	11.66	112	161567	20.896	ug/l	98
71) Bromoform	12.40	173	2079	1.476	ug/l #	28
73) Isopropylbenzene	12.52	105	56287	4.442	ug/l #	49
74) N-amyl acetate	12.34	43	5041	1.748	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.74	83	395663	184.582	ug/l #	27
76) 1,2,3-Trichloropropane	12.63	75	71309	45.790	ug/l #	100
77) Bromobenzene	12.94	156	263302	89.231	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.49	75	2561	3.784	ug/l #	8
88) 1,4-Dichlorobenzene	13.58	146	12689	2.106	ug/l #	4
89) n-Butylbenzene	13.81	91	25878	2.234	ug/l #	34
90) Hexachloroethane	14.11	117	4771	2.220	ug/l #	10
91) 1,2-Dichlorobenzene	13.88	146	8158	1.536	ug/l #	63
92) 1,2-Dibromo-3-Chloropropan	14.55	75	814	2.257	ug/l #	4

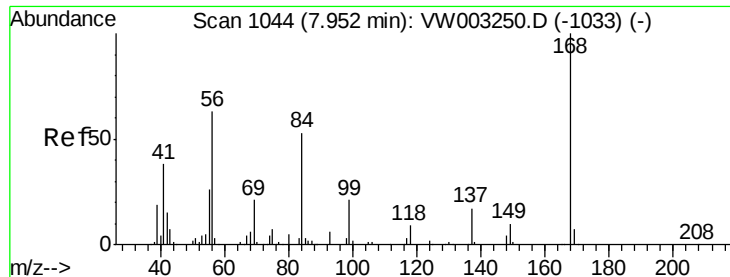
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

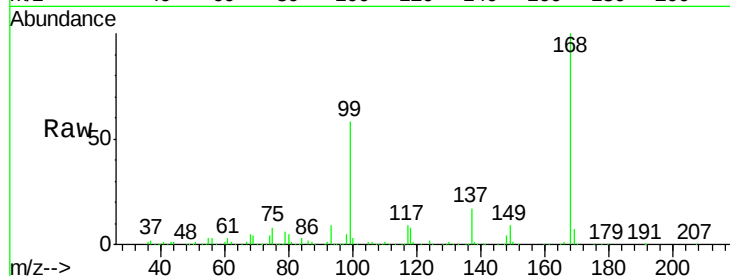
WP021SB485-27-29-180619

Tgt Ion:168 Resp: 247052

Ion Ratio Lower Upper

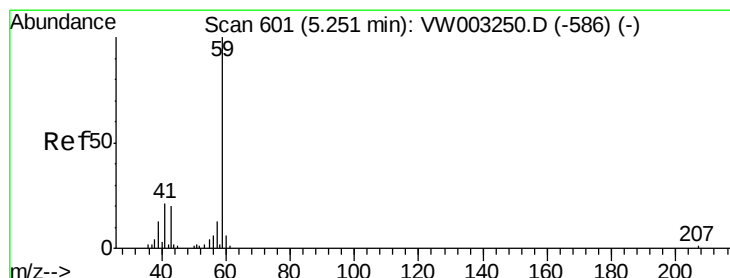
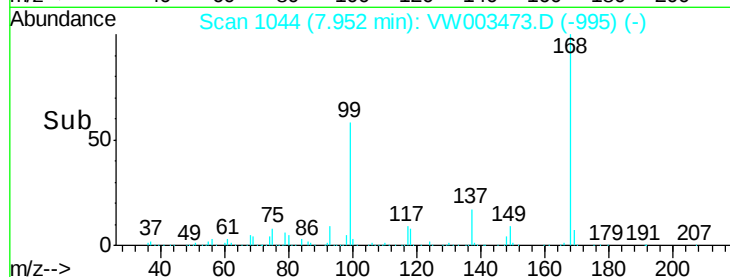
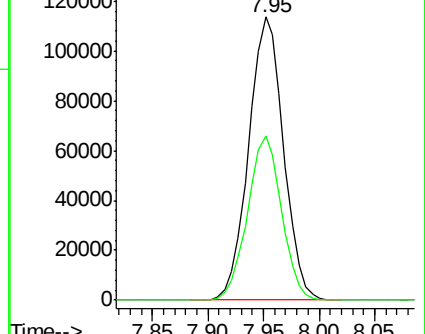
168 100

99 58.0 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.087 ug/l

RT: 5.26 min Scan# 603

Delta R.T. 0.01 min

Lab File: VW003473.D

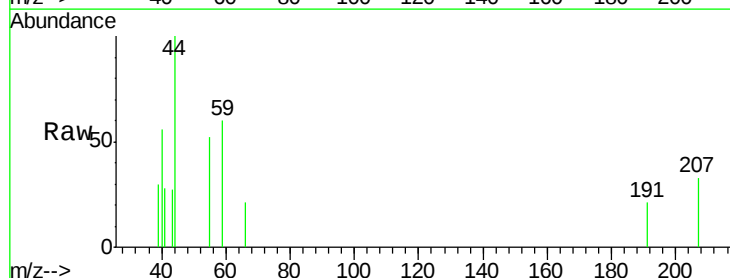
Acq: 23 Jun 2018 20:46

Tgt Ion: 59 Resp: 156

Ion Ratio Lower Upper

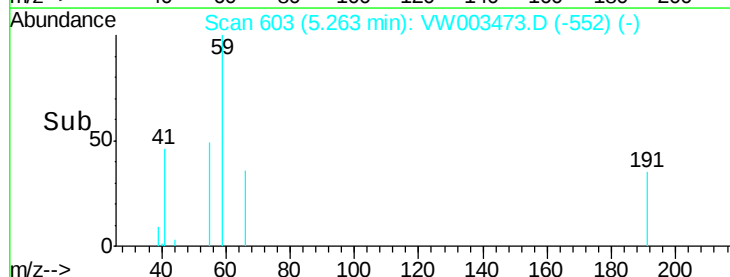
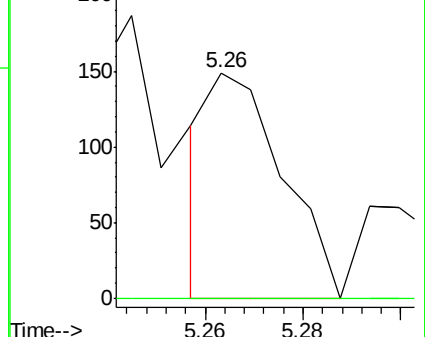
59 100

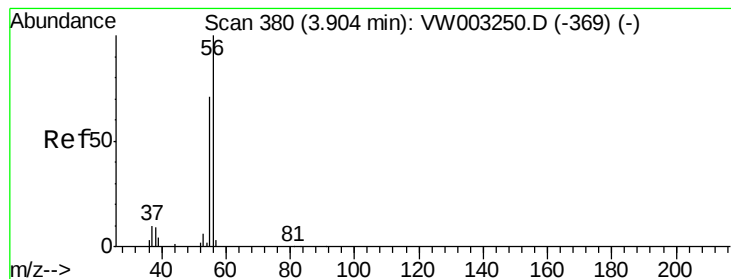
57 0.0 4.2 6.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.428 ug/l

RT: 3.90 min Scan# 379

Delta R.T. -0.01 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

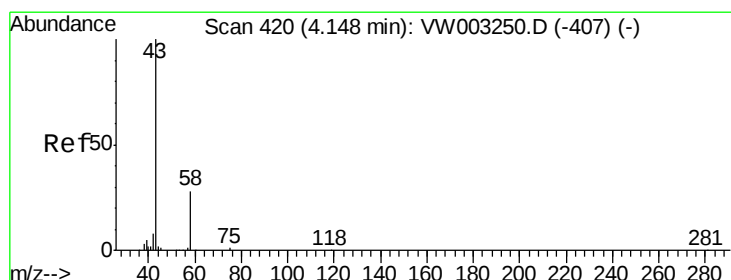
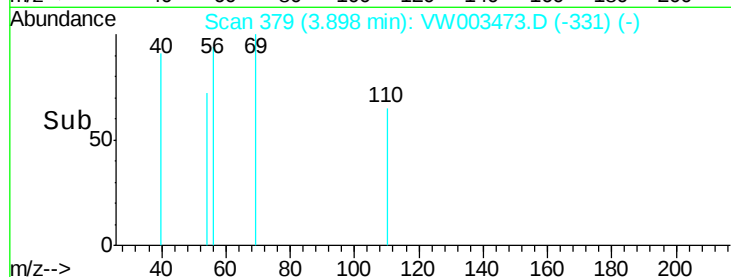
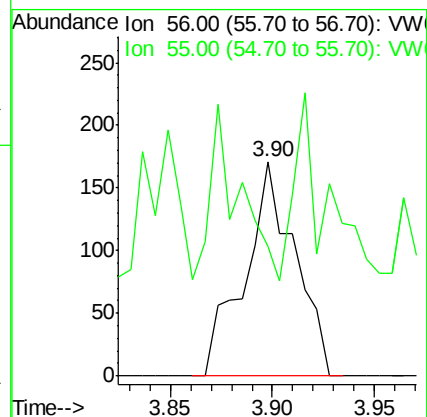
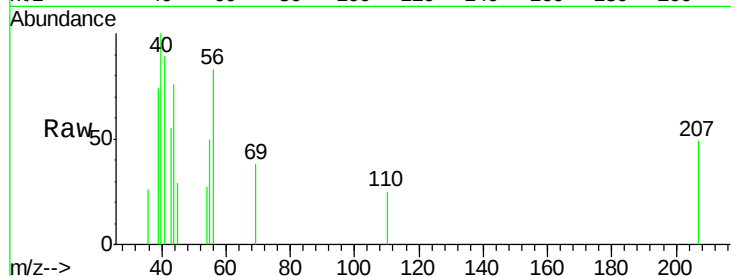
WP021SB485-27-29-180619

Tgt Ion: 56 Resp: 293

Ion Ratio Lower Upper

56 100

55 129.7 55.4 83.2#



#16

Acetone

Concen: 56.567 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: VW003473.D

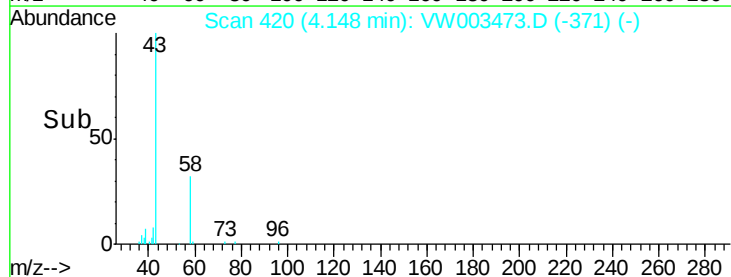
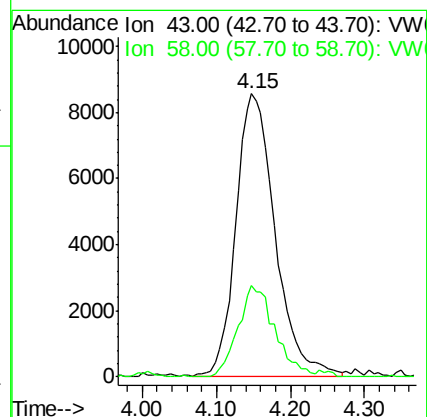
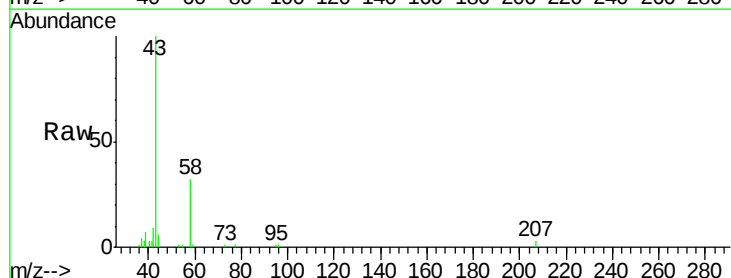
Acq: 23 Jun 2018 20:46

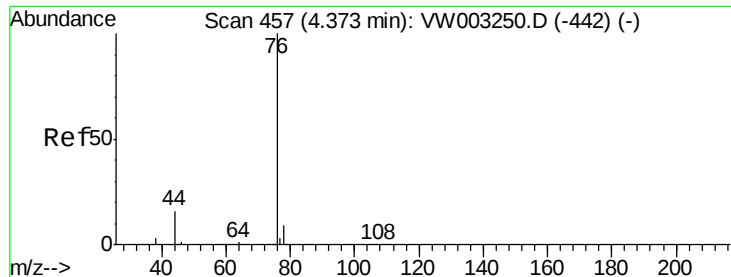
Tgt Ion: 43 Resp: 31747

Ion Ratio Lower Upper

43 100

58 32.2 22.6 34.0





#17

Carbon Disulfide

Concen: 2.920 ug/l

RT: 4.37 min Scan# 457

Delta R.T. 0.00 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

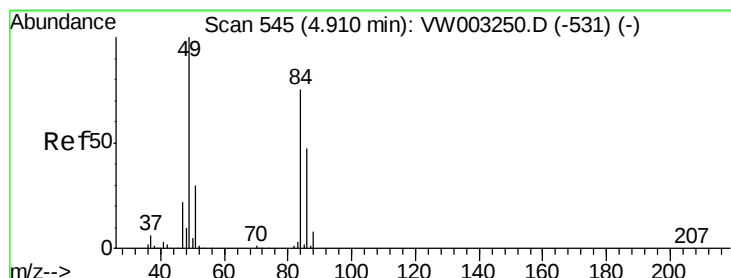
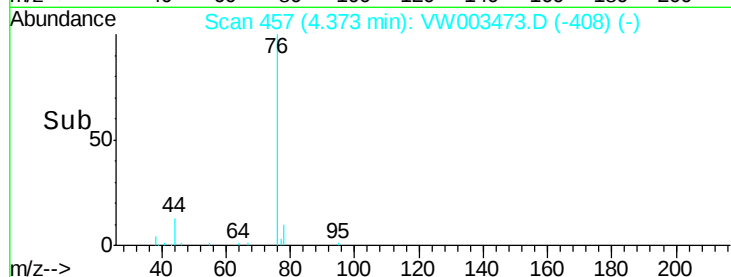
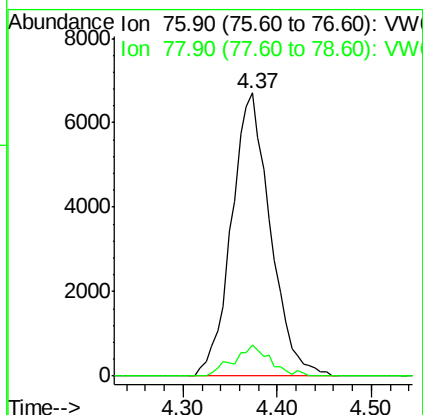
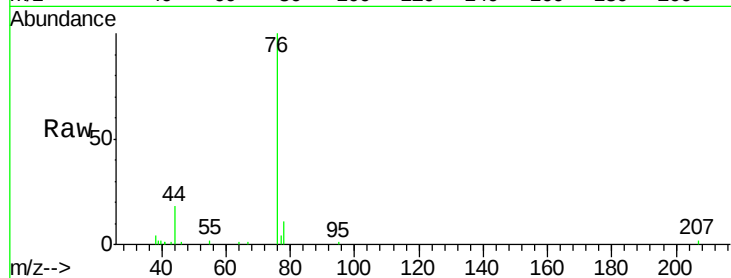
WP021SB485-27-29-180619

Tgt Ion: 76 Resp: 19308

Ion Ratio Lower Upper

76 100

78 10.8 7.1 10.7#



#20

Methylene Chloride

Concen: 2.685 ug/l

RT: 4.91 min Scan# 545

Delta R.T. 0.00 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Tgt Ion: 84 Resp: 14682

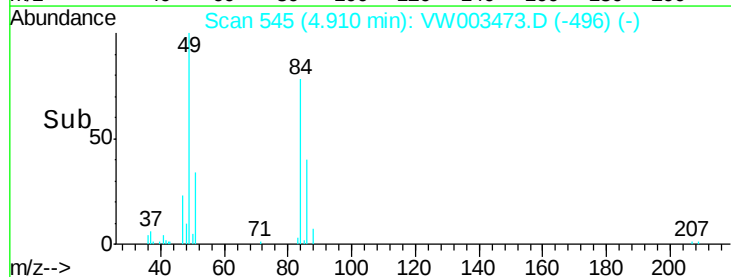
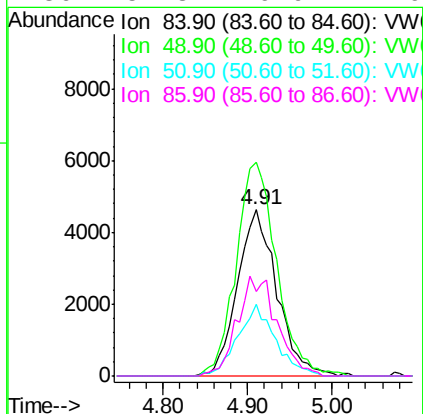
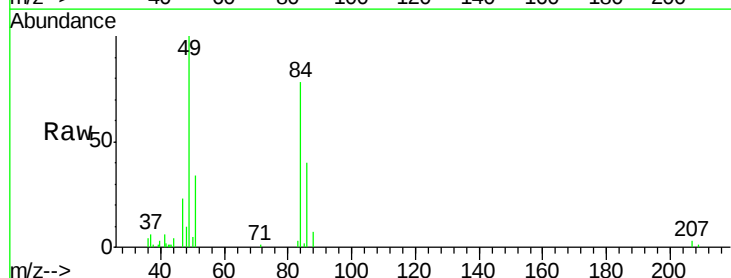
Ion Ratio Lower Upper

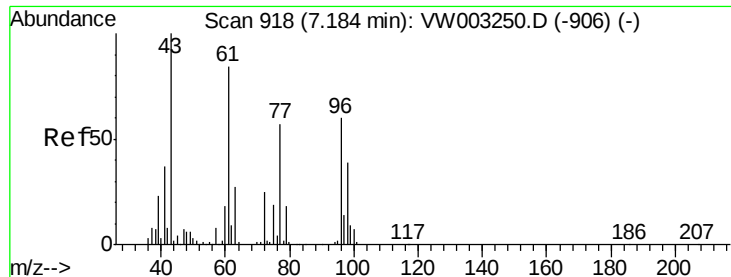
84 100

49 128.8 106.3 159.5

51 43.5 32.0 48.0

86 51.3 49.9 74.9





#25

2-Butanone

Concen: 10.489 ug/l

RT: 7.20 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

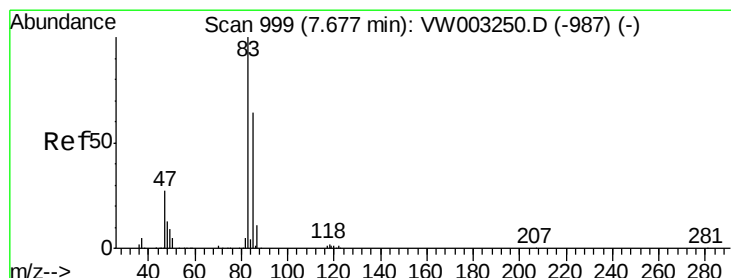
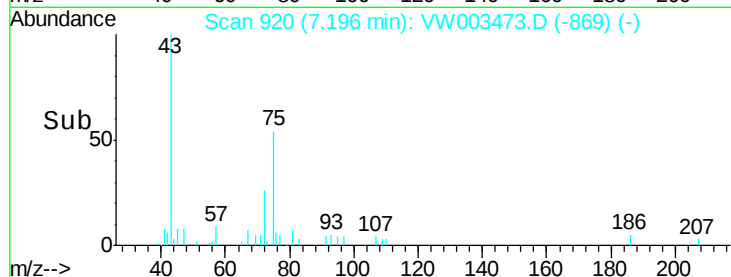
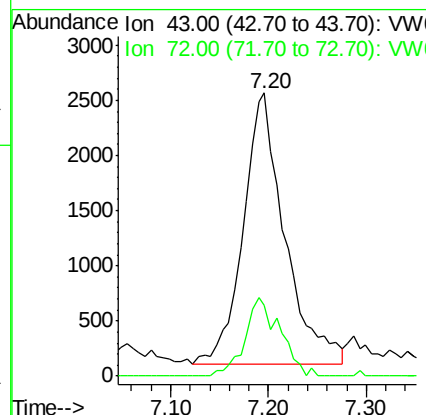
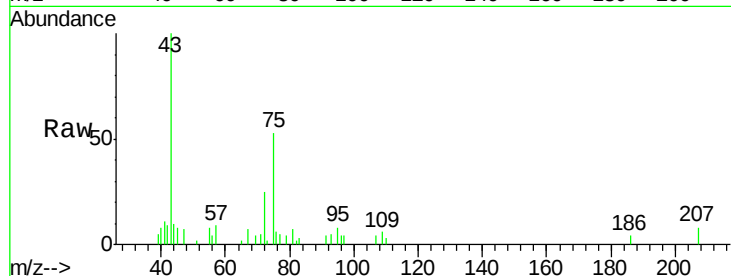
WP021SB485-27-29-180619

Tgt Ion: 43 Resp: 7320

Ion Ratio Lower Upper

43 100

72 26.1 20.3 30.5



#30

Chloroform

Concen: 1.295 ug/l

RT: 7.68 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VW003473.D

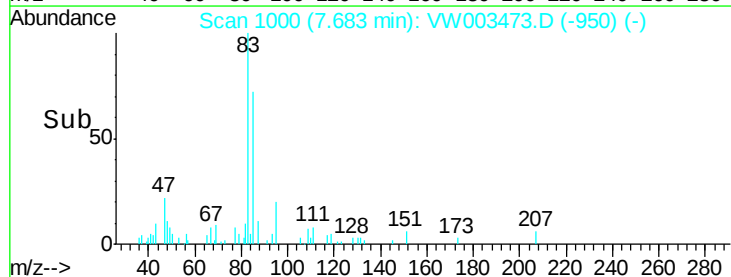
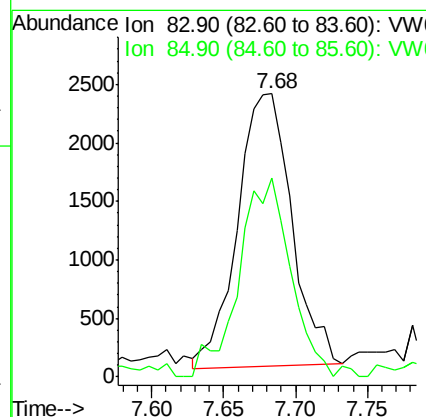
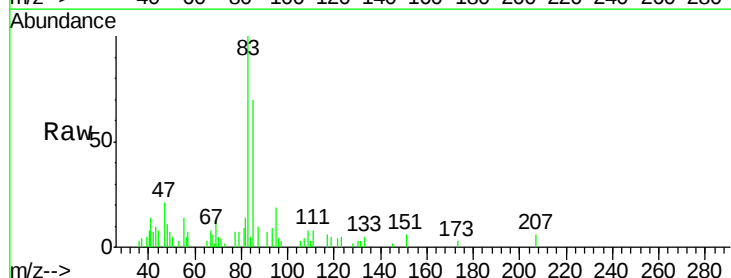
Acq: 23 Jun 2018 20:46

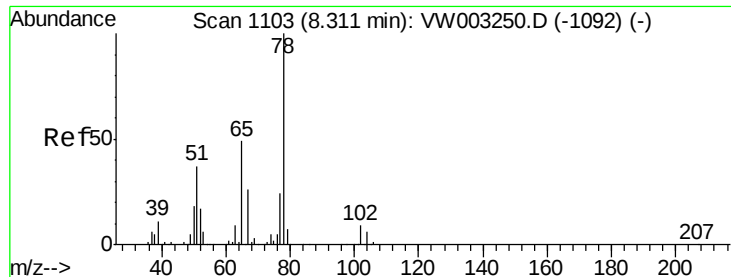
Tgt Ion: 83 Resp: 6106

Ion Ratio Lower Upper

83 100

85 74.1 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 38.776 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

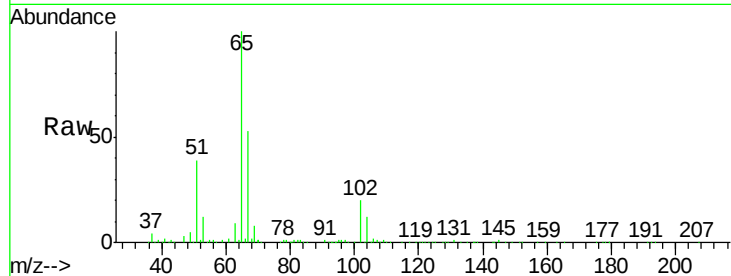
WP021SB485-27-29-180619

Tgt Ion: 65 Resp: 103762

Ion Ratio Lower Upper

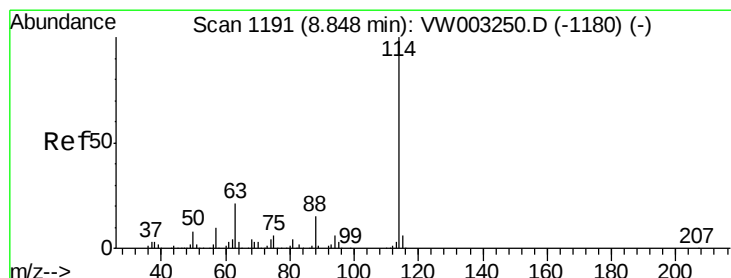
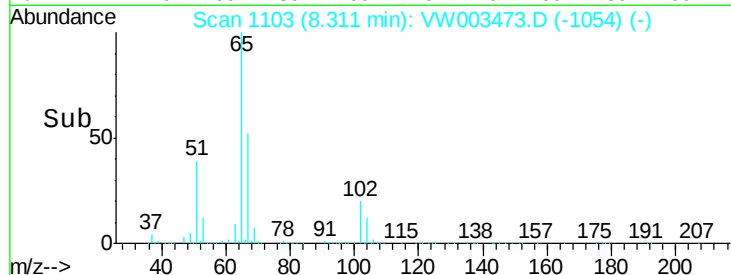
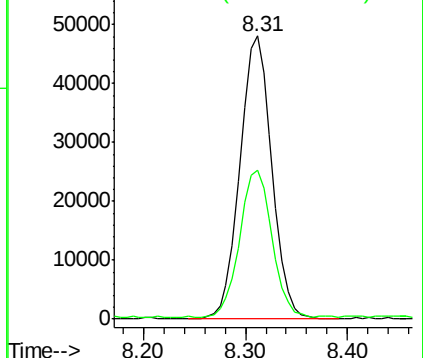
65 100

67 53.0 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. -0.00 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

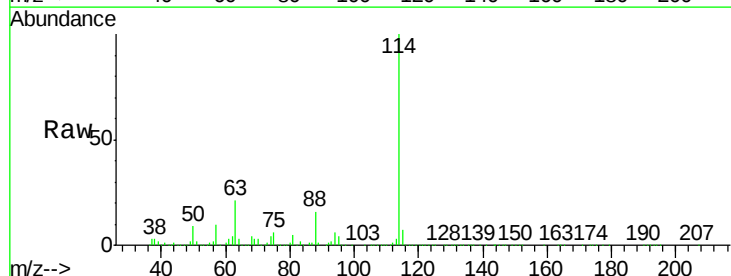
Tgt Ion: 114 Resp: 415253

Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.0

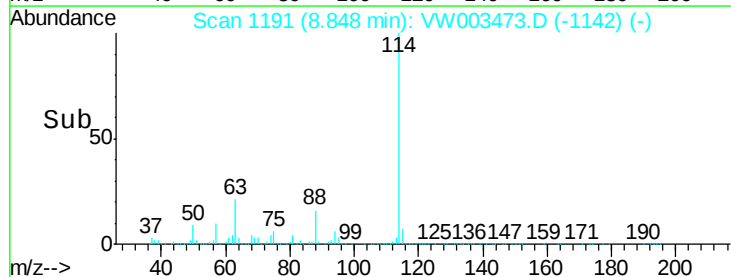
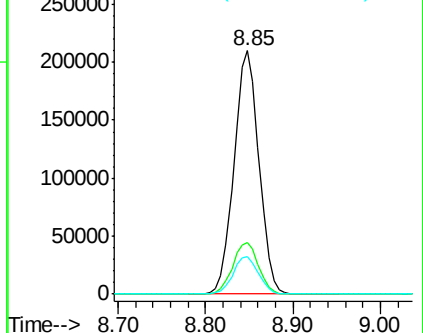
88 15.6 0.0 29.6

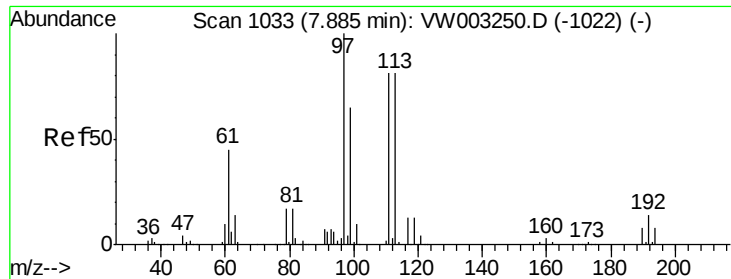


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 36.516 ug/l

RT: 7.89 min Scan# 1034

Delta R.T. 0.01 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

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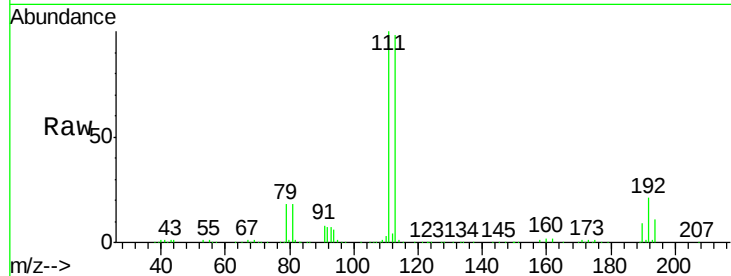
Tgt Ion:113 Resp: 94220

Ion Ratio Lower Upper

113 100

111 104.2 82.2 123.2

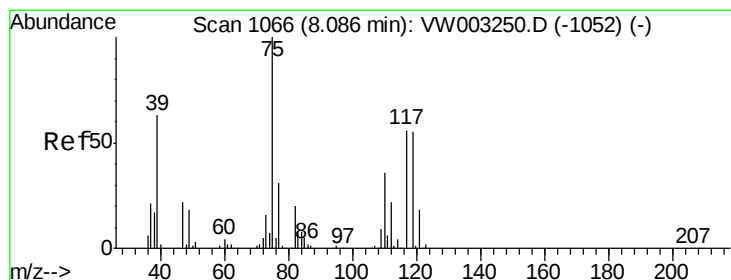
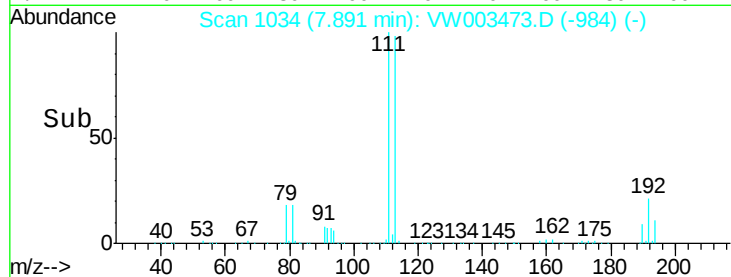
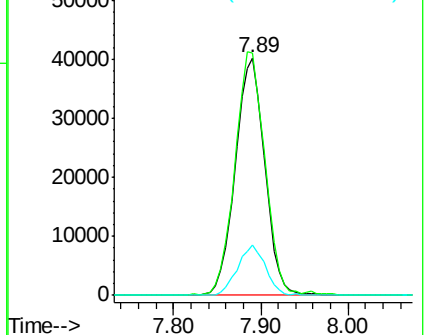
192 20.1 16.2 24.2



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



#36

1,1-Dichloropropene

Concen: 4.977 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

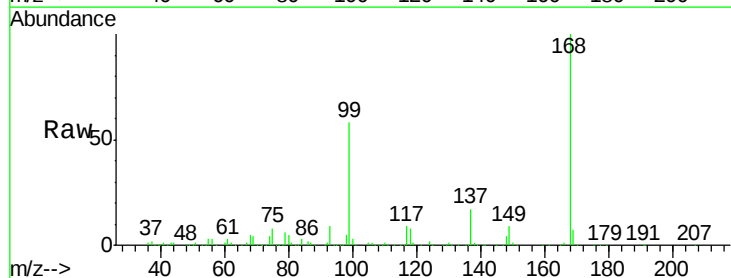
Tgt Ion: 75 Resp: 19961

Ion Ratio Lower Upper

75 100

110 9.0 17.1 51.3#

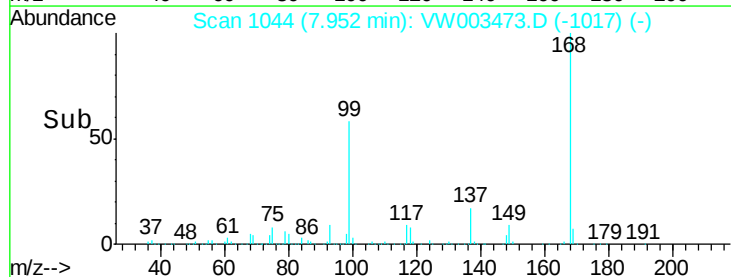
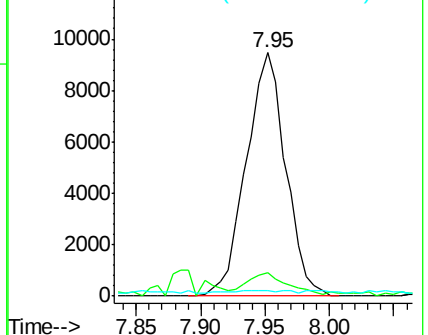
77 1.5 24.9 37.3#

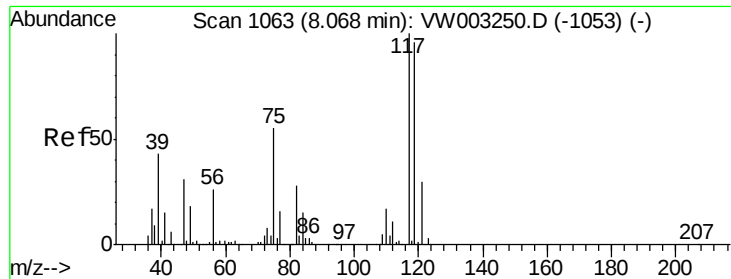


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.262 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

WP021SB485-27-29-180619

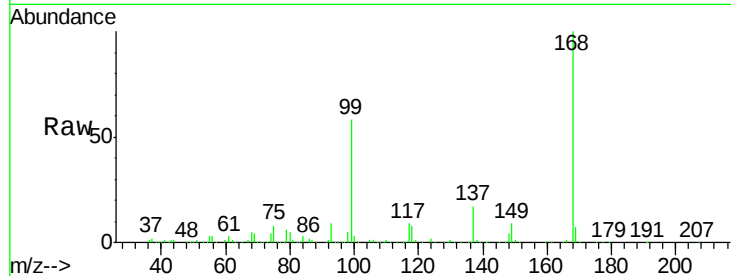
Tgt Ion:117 Resp: 24632

Ion Ratio Lower Upper

117 100

119 5.6 76.6 115.0#

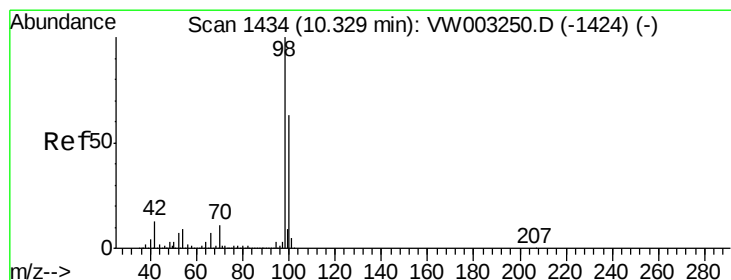
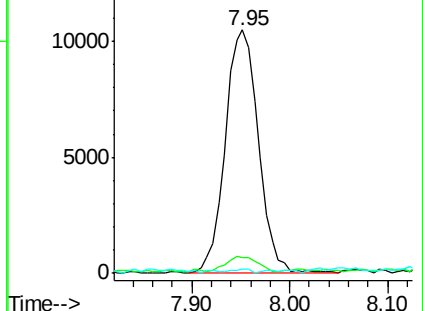
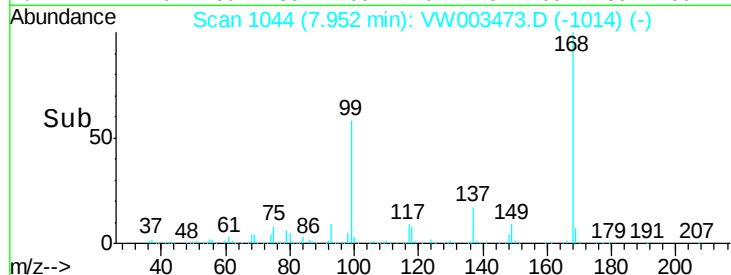
121 1.1 23.9 35.9#



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



#50

Toluene-d8

Concen: 35.174 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003473.D

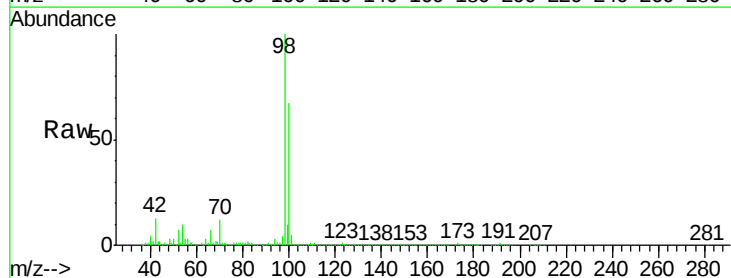
Acq: 23 Jun 2018 20:46

Tgt Ion: 98 Resp: 359874

Ion Ratio Lower Upper

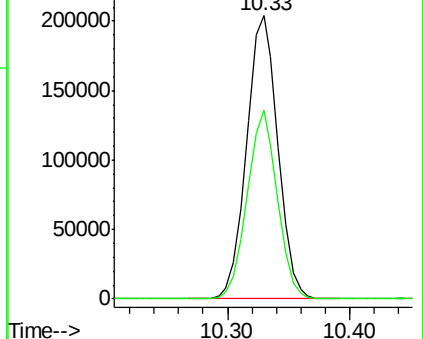
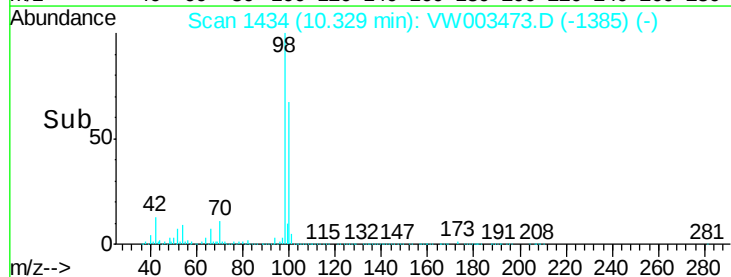
98 100

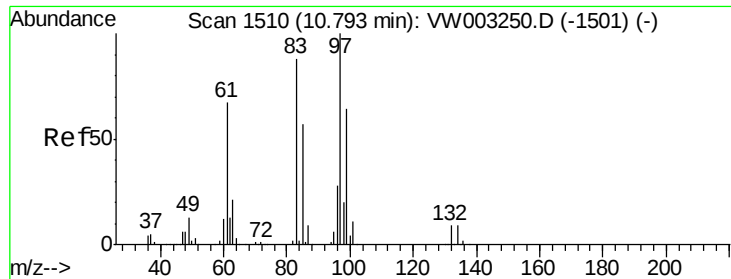
100 64.4 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

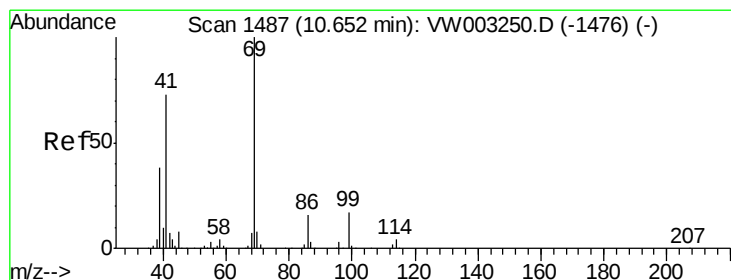
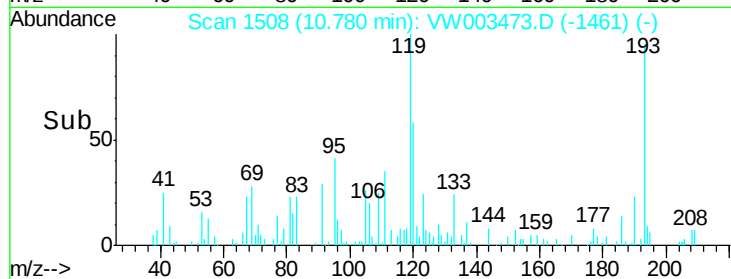
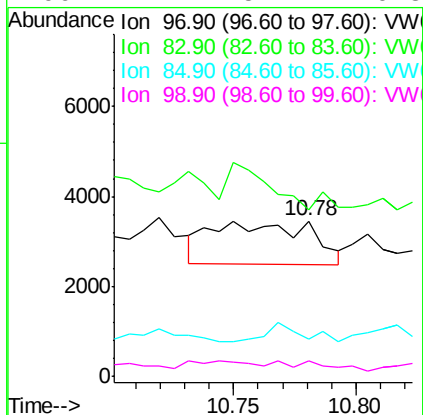
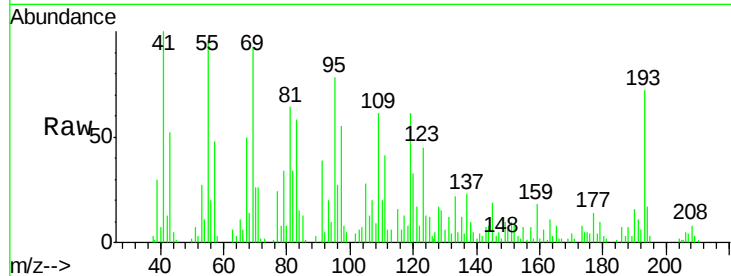




#55
 1,1,2-Trichloroethane
 Concen: 1.290 ug/l
 RT: 10.78 min Scan# 1508
 Delta R.T. -0.01 min
 Lab File: VW003473.D
 Acq: 23 Jun 2018 20:46

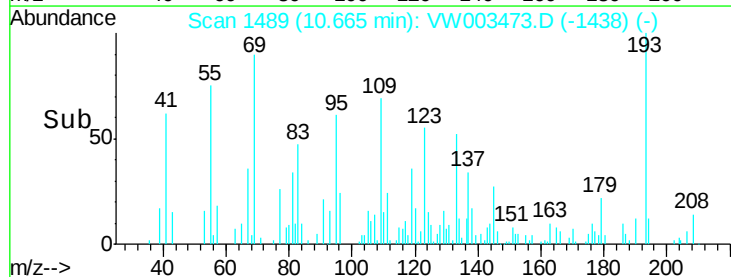
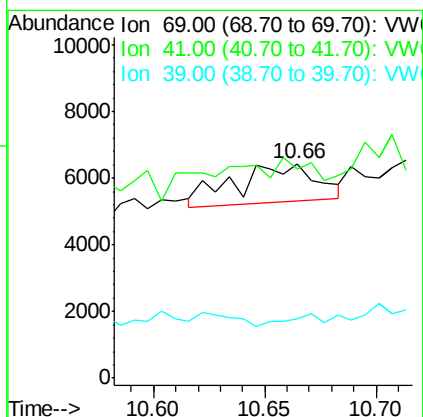
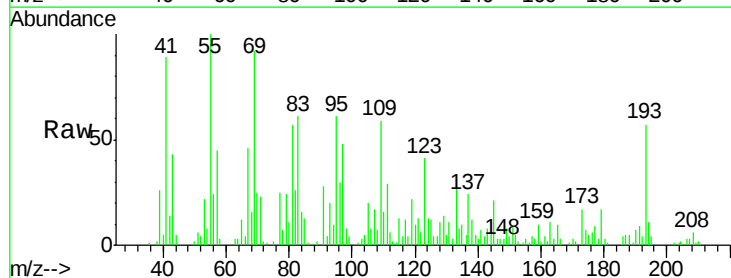
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB485-27-29-180619

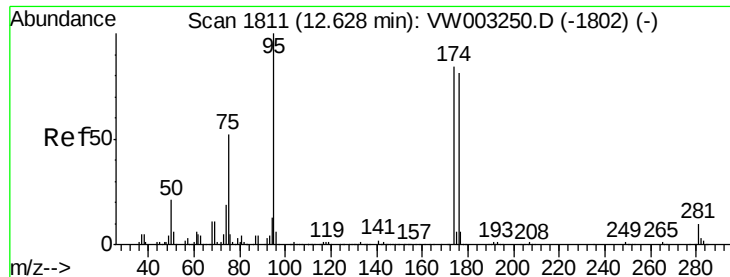
Tgt Ion: 97 Resp: 2620
 Ion Ratio Lower Upper
 97 100
 83 0.0 70.2 105.2#
 85 8.2 45.6 68.4#
 99 22.7 51.2 76.8#



#56
 Ethyl methacrylate
 Concen: 1.170 ug/l
 RT: 10.66 min Scan# 1489
 Delta R.T. 0.01 min
 Lab File: VW003473.D
 Acq: 23 Jun 2018 20:46

Tgt Ion: 69 Resp: 2885
 Ion Ratio Lower Upper
 69 100
 41 0.0 57.8 86.6#
 39 13.8 32.7 49.1#





#62

4-Bromofluorobenzene

Concen: 38.563 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

WP021SB485-27-29-180619

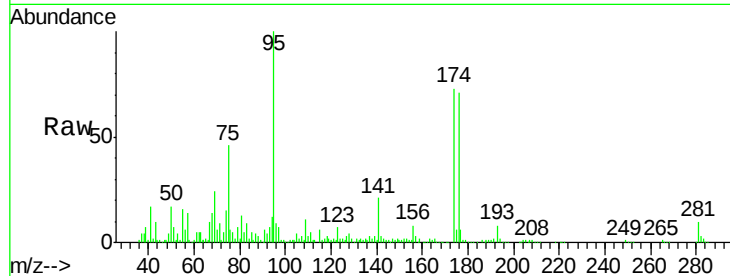
Tgt Ion: 95 Resp: 139627

Ion Ratio Lower Upper

95 100

174 75.7 0.0 166.4

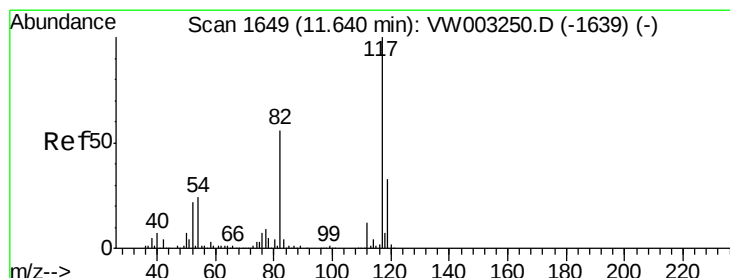
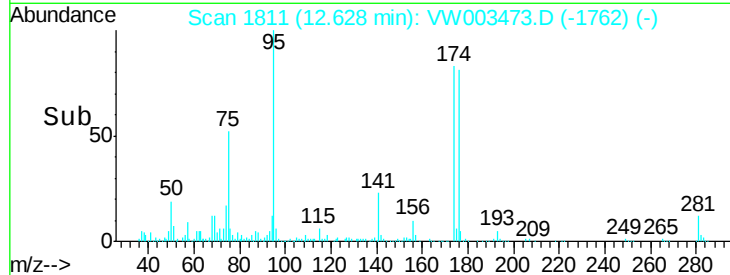
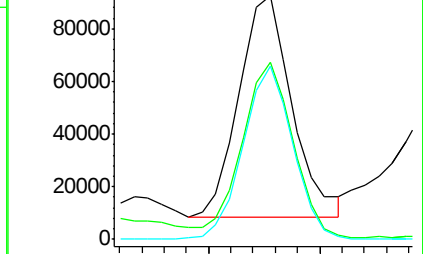
176 72.4 0.0 162.0



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: VW003473.D

Acq: 23 Jun 2018 20:46

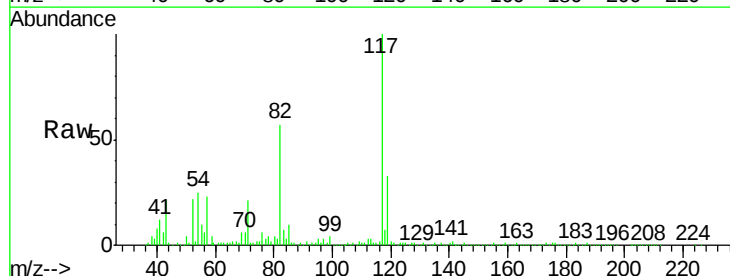
Tgt Ion: 117 Resp: 371290

Ion Ratio Lower Upper

117 100

82 56.9 44.6 67.0

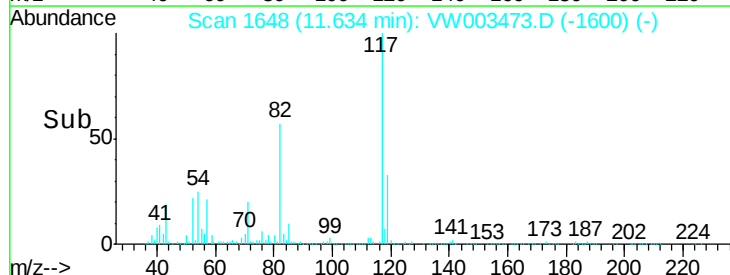
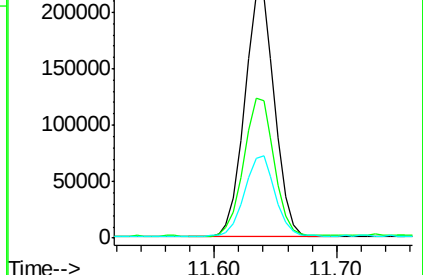
119 32.3 26.7 40.1

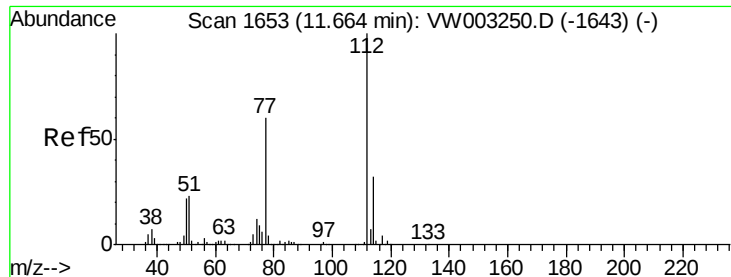


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

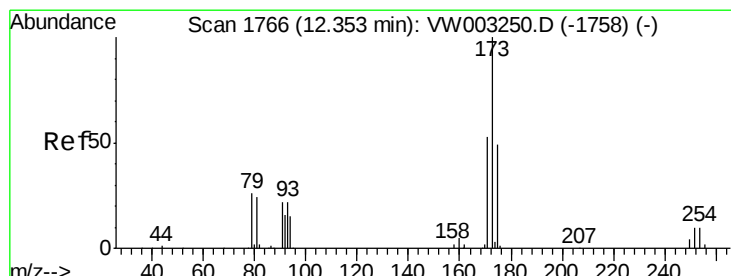
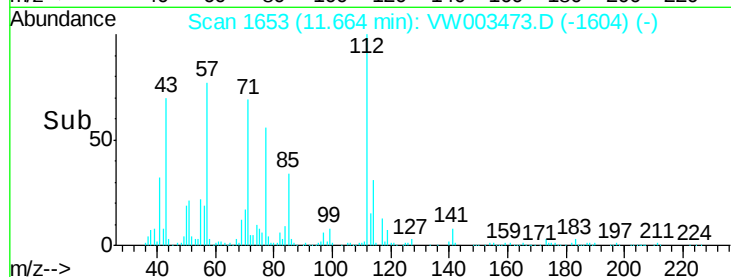
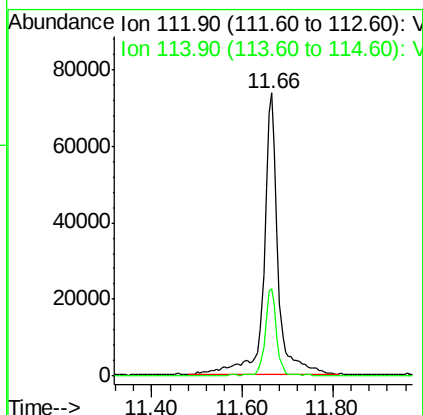
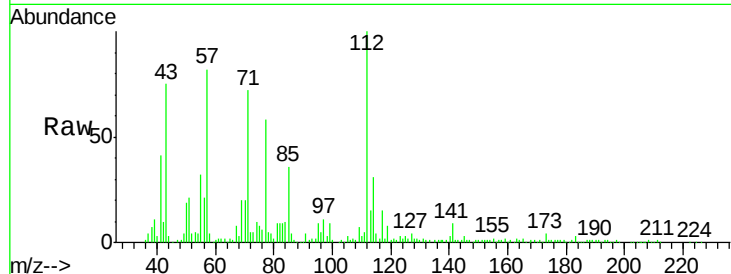




#65
Chlorobenzene
Concen: 20.896 ug/l
RT: 11.66 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VW003473.D
Acq: 23 Jun 2018 20:46

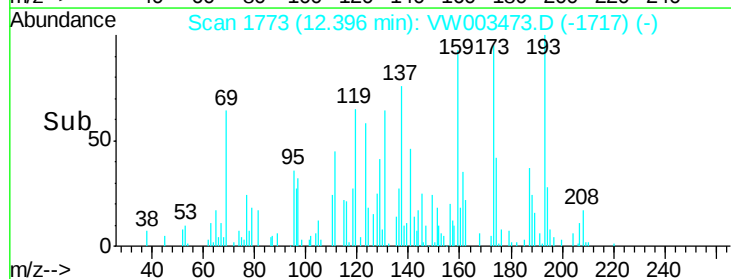
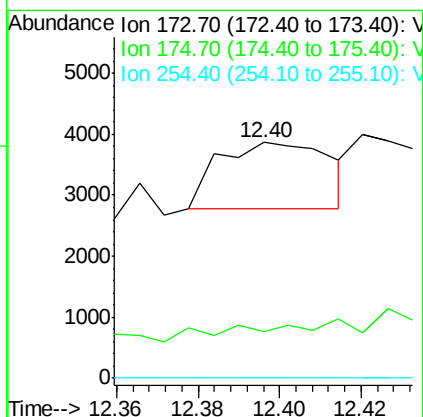
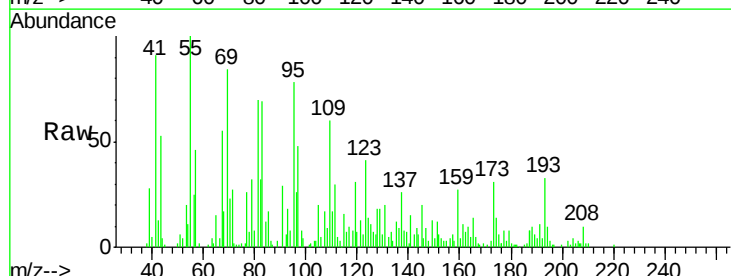
Instrument :
MSVOA_W
ClientSampleId :
WP021SB485-27-29-180619

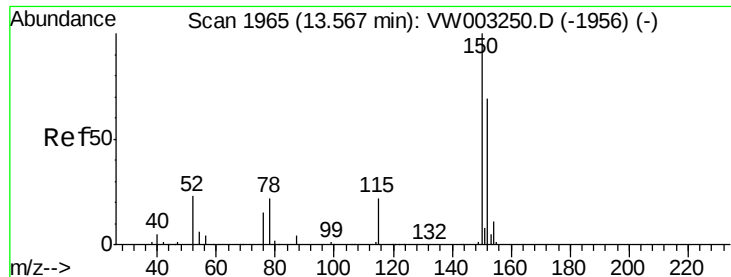
Tgt Ion:112 Resp: 161567
Ion Ratio Lower Upper
112 100
114 31.3 25.9 38.9



#71
Bromoform
Concen: 1.476 ug/l
RT: 12.40 min Scan# 1773
Delta R.T. 0.04 min
Lab File: VW003473.D
Acq: 23 Jun 2018 20:46

Tgt Ion:173 Resp: 2079
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.4#
254 0.0 0.1 0.1#



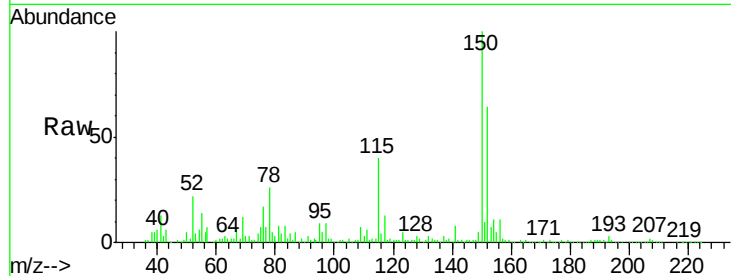


#72

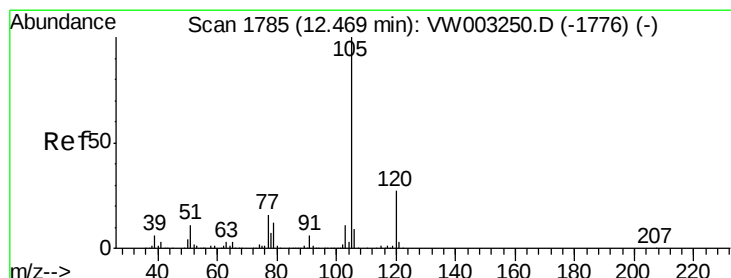
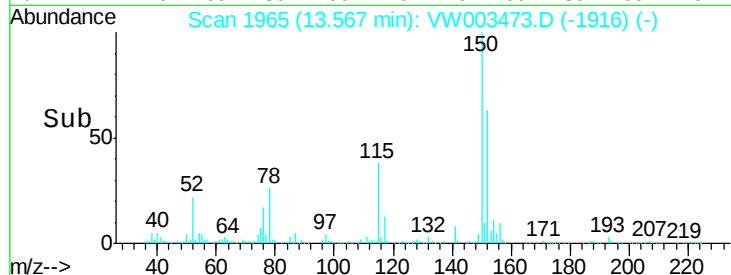
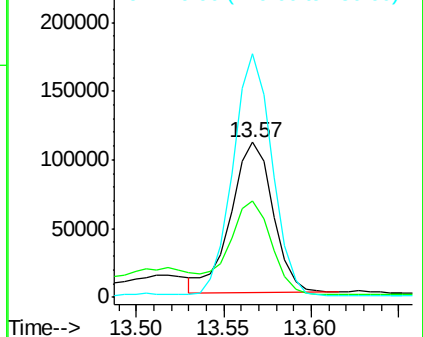
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VW003473.D
Acq: 23 Jun 2018 20:46

Instrument :
MSVOA_W
ClientSampleId :
WP021SB485-27-29-180619

Tgt Ion:152 Resp: 182166
Ion Ratio Lower Upper
152 100
115 64.4 29.3 88.0
150 151.4 0.0 349.6



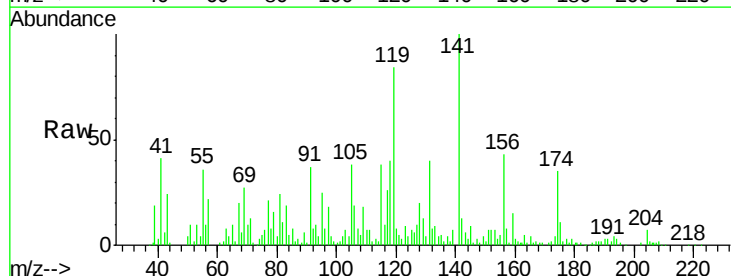
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



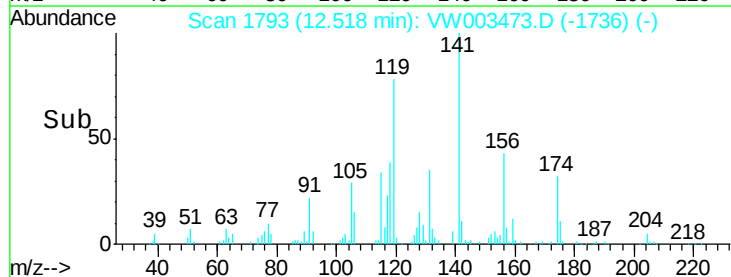
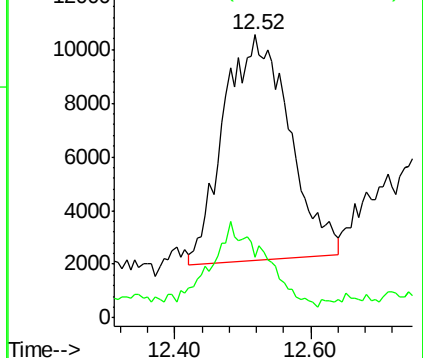
#73

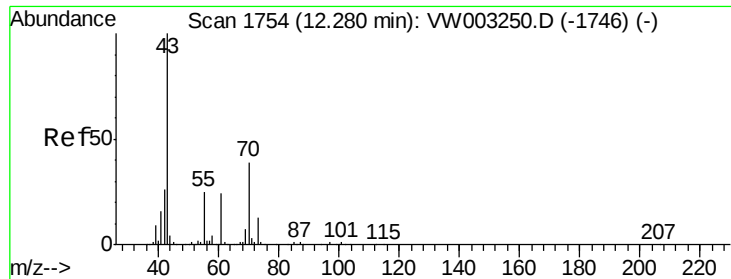
Isopropylbenzene
Concen: 4.442 ug/l
RT: 12.52 min Scan# 1793
Delta R.T. 0.05 min
Lab File: VW003473.D
Acq: 23 Jun 2018 20:46

Tgt Ion:105 Resp: 56287
Ion Ratio Lower Upper
105 100
120 0.0 13.2 39.6#



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





#74

N-ethyl acetate

Concen: 1.748 ug/l

RT: 12.34 min Scan# 1764

Delta R.T. 0.06 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

WP021SB485-27-29-180619

Tgt Ion: 43 Resp: 5041

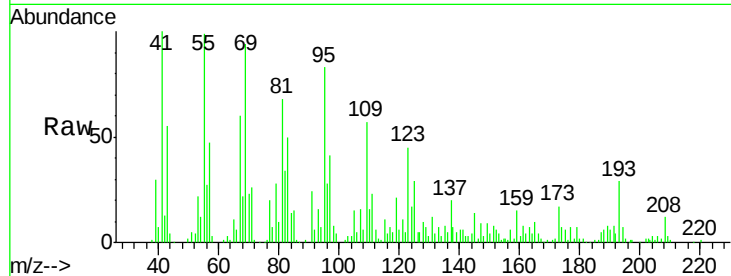
Ion Ratio Lower Upper

43 100

70 98.8 31.0 46.6#

55 345.3 19.7 29.5#

61 0.0 18.1 27.1#

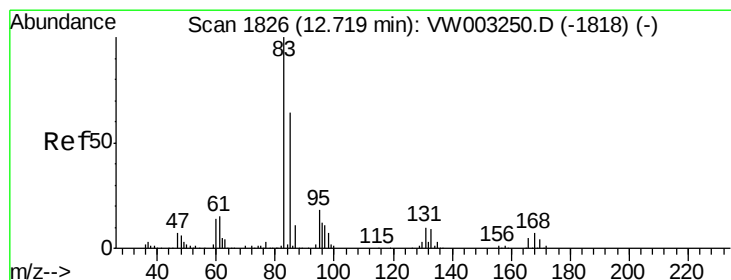
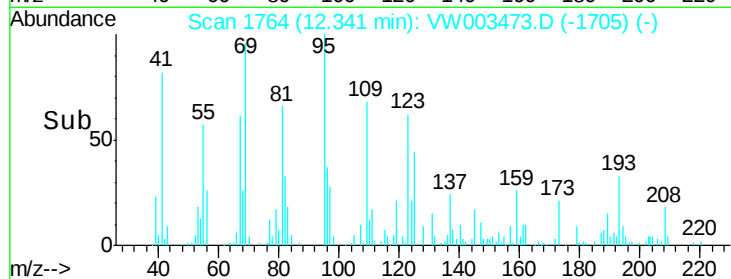
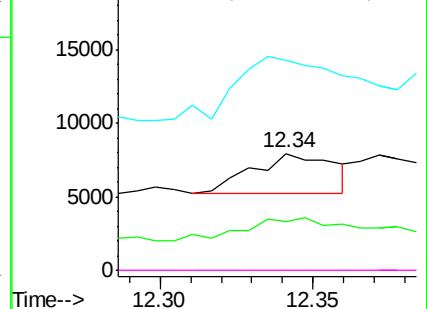


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 184.582 ug/l

RT: 12.74 min Scan# 1830

Delta R.T. 0.02 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

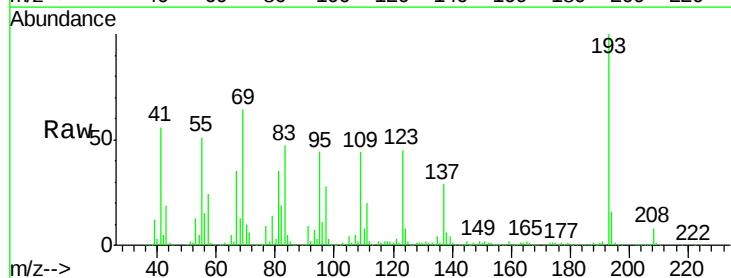
Tgt Ion: 83 Resp: 395663

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

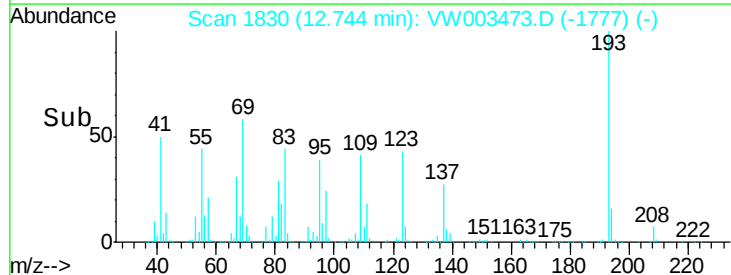
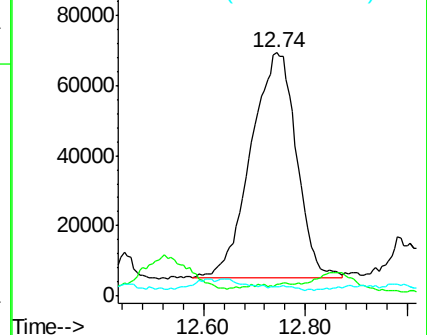
85 0.8 31.9 95.7#

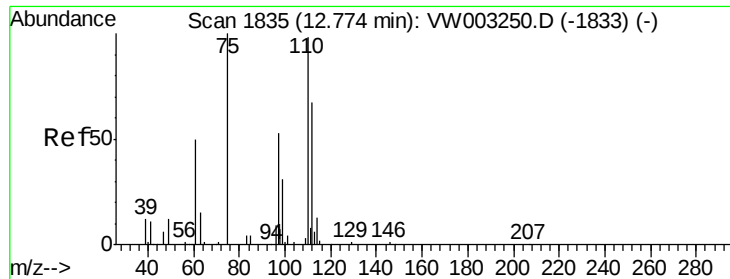


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

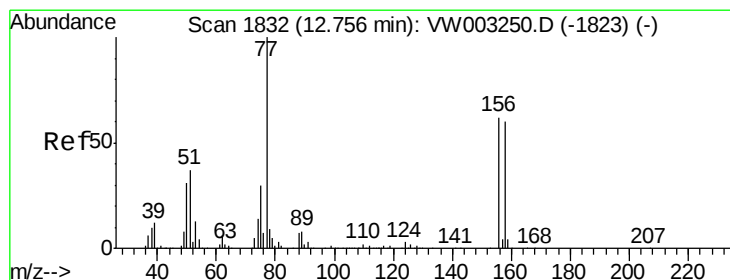
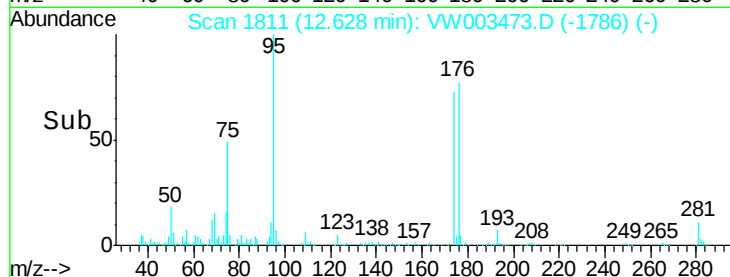
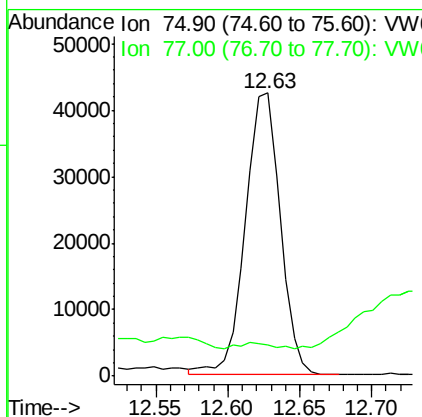
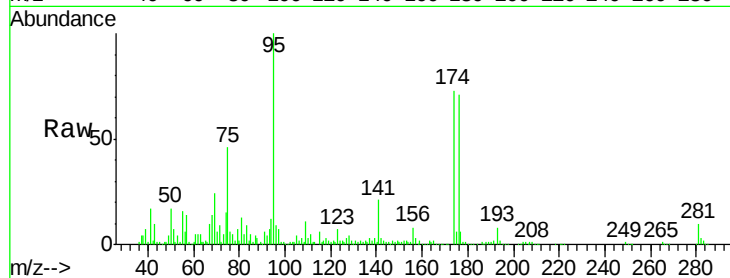




#76
 1,2,3-Trichloropropane
 Concen: 45.790 ug/l
 RT: 12.63 min Scan# 1811
 Delta R.T. -0.15 min
 Lab File: VW003473.D
 Acq: 23 Jun 2018 20:46

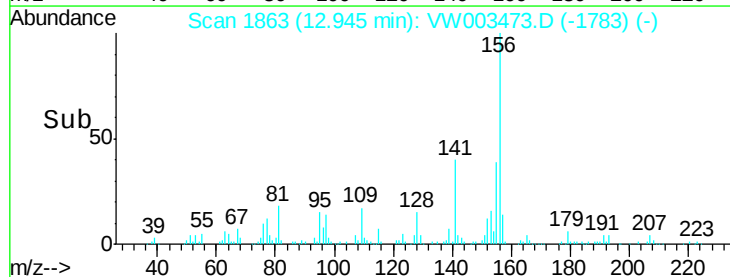
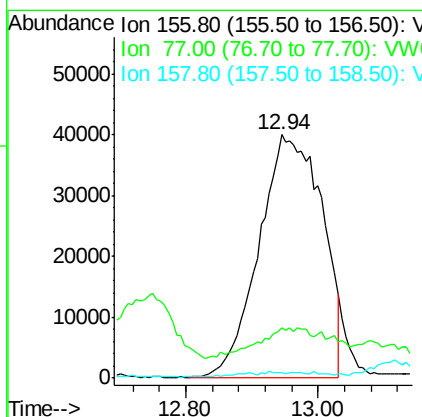
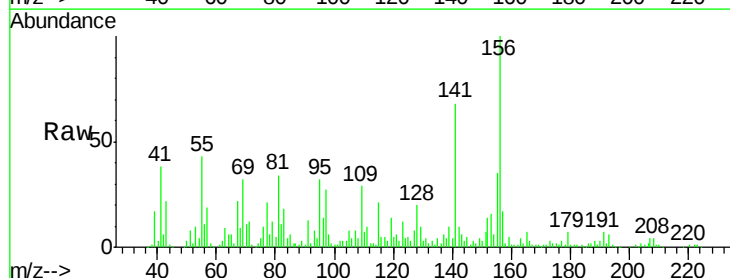
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB485-27-29-180619

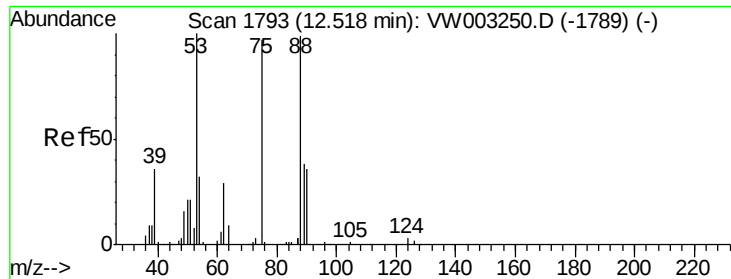
Tgt Ion: 75 Resp: 71309
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#77
 Bromobenzene
 Concen: 89.231 ug/l
 RT: 12.94 min Scan# 1863
 Delta R.T. 0.19 min
 Lab File: VW003473.D
 Acq: 23 Jun 2018 20:46

Tgt Ion: 156 Resp: 263302
 Ion Ratio Lower Upper
 156 100
 77 5.8 92.3 276.9#
 158 0.2 47.5 142.6#

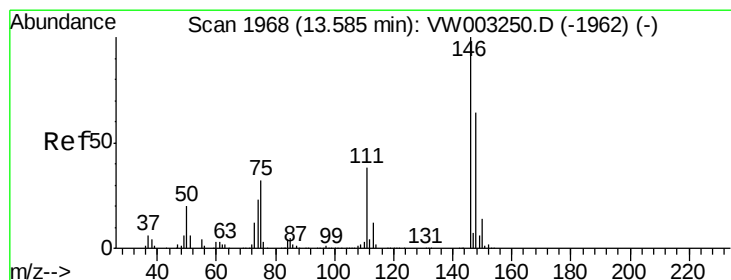
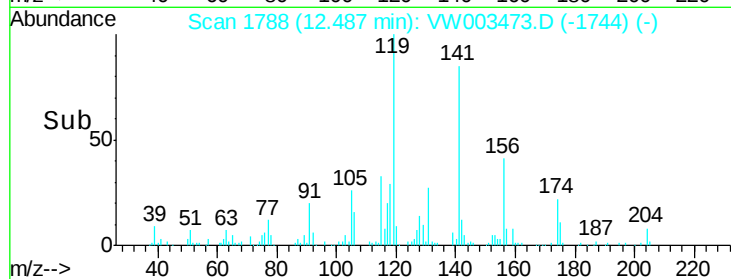
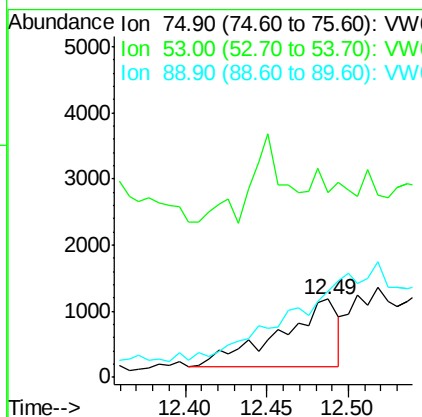
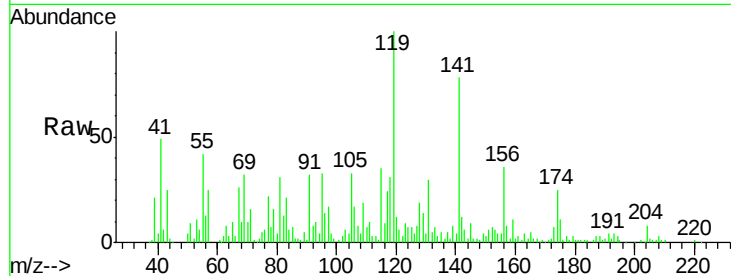




#81
trans-1,4-Dichloro-2-butene
Concen: 3.784 ug/l
RT: 12.49 min Scan# 1788
Delta R.T. -0.03 min
Lab File: VW003473.D
Acq: 23 Jun 2018 20:46

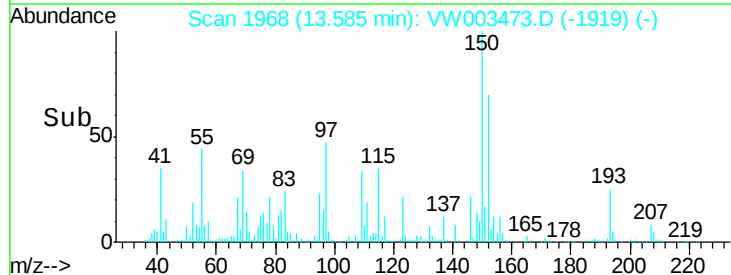
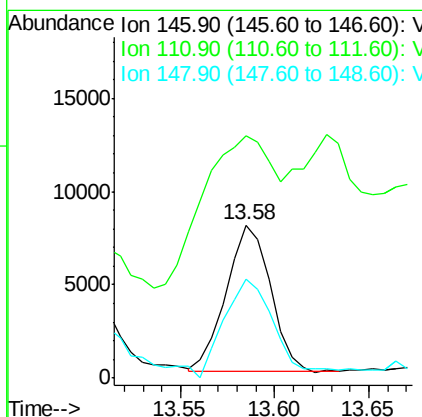
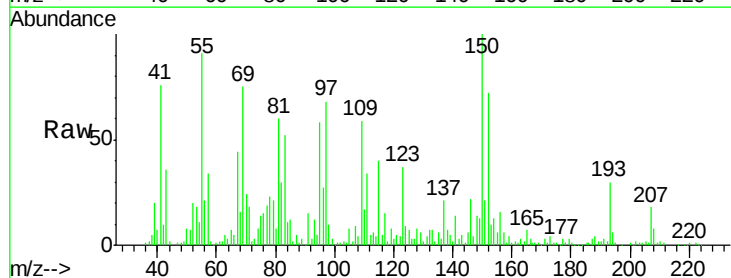
Instrument :
MSVOA_W
ClientSampleId :
WP021SB485-27-29-180619

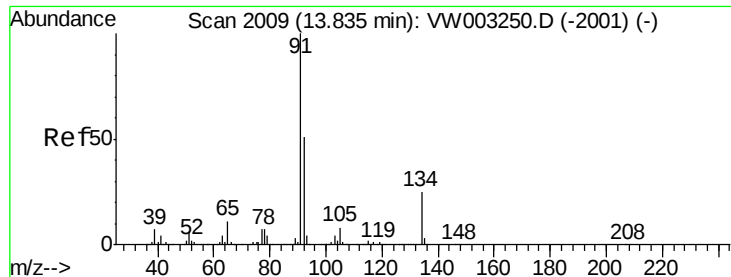
Tgt Ion: 75 Resp: 2561
Ion Ratio Lower Upper
75 100
53 0.0 82.9 124.3#
89 0.0 36.7 55.1#



#88
1,4-Dichlorobenzene
Concen: 2.106 ug/l
RT: 13.58 min Scan# 1968
Delta R.T. -0.00 min
Lab File: VW003473.D
Acq: 23 Jun 2018 20:46

Tgt Ion: 146 Resp: 12689
Ion Ratio Lower Upper
146 100
111 169.4 19.2 57.6#
148 81.7 31.8 95.4





#89

n-Butylbenzene

Concen: 2.234 ug/l

RT: 13.81 min Scan# 2005

Delta R.T. -0.02 min

Lab File: VW003473.D

Acq: 23 Jun 2018 20:46

Instrument :

MSVOA_W

ClientSampleId :

WP021SB485-27-29-180619

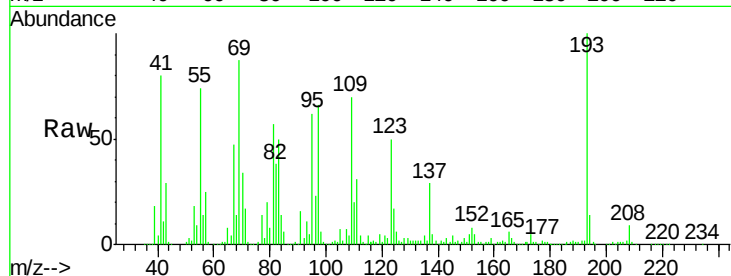
Tgt Ion: 91 Resp: 25878

Ion Ratio Lower Upper

91 100

92 0.0 26.0 78.0#

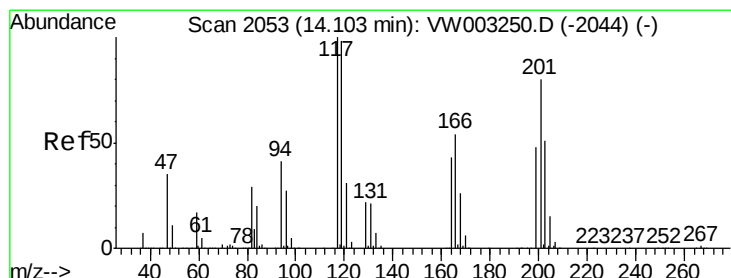
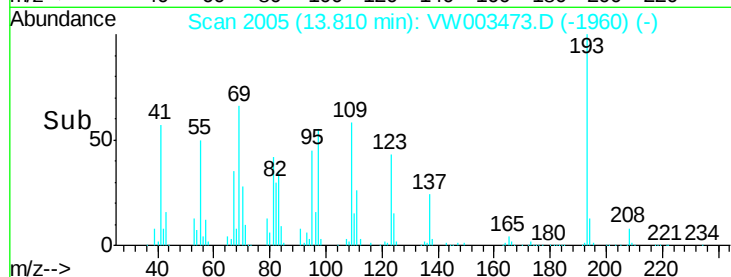
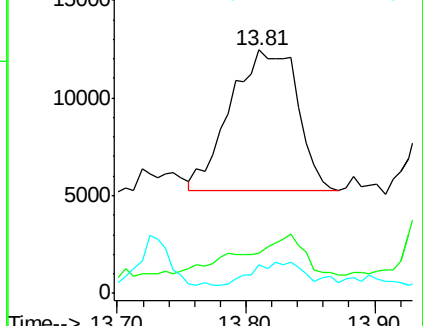
134 0.0 12.7 38.0#



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: 2.220 ug/l

RT: 14.11 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VW003473.D

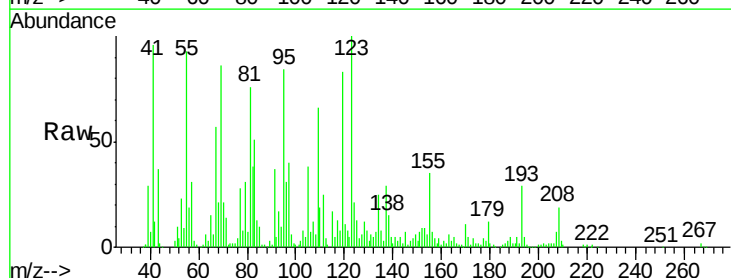
Acq: 23 Jun 2018 20:46

Tgt Ion: 117 Resp: 4771

Ion Ratio Lower Upper

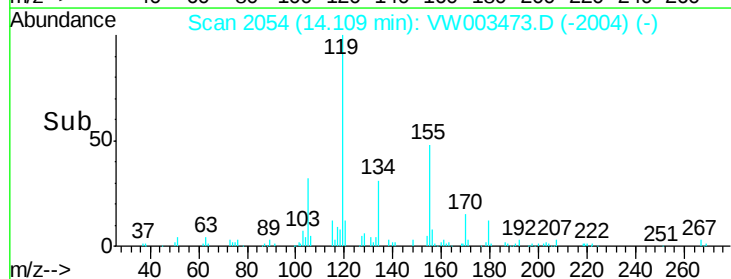
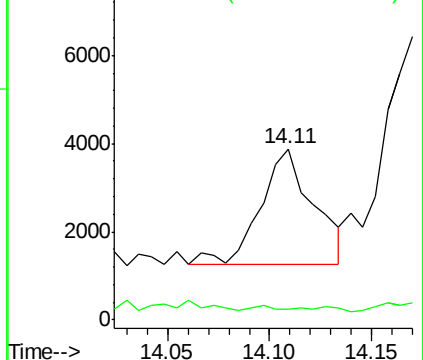
117 100

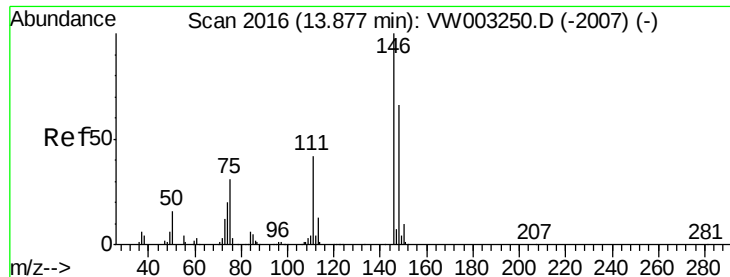
201 0.0 39.5 118.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

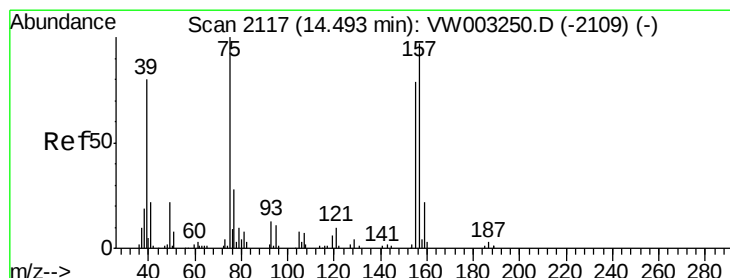
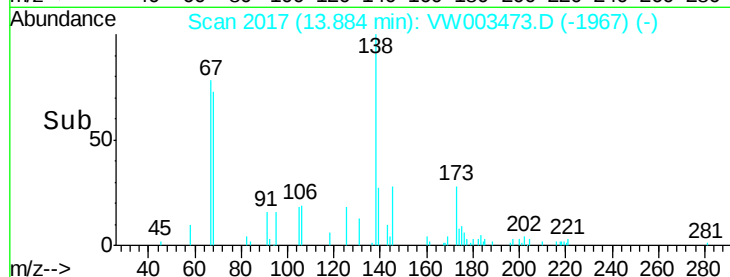
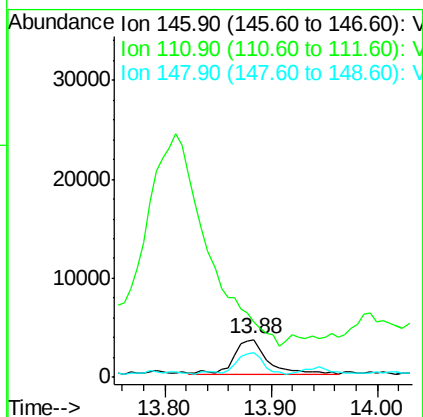
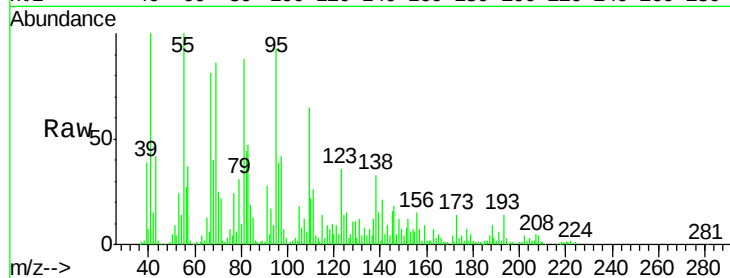




#91
 1,2-Dichlorobenzene
 Concen: 1.536 ug/l
 RT: 13.88 min Scan# 2017
 Delta R.T. 0.01 min
 Lab File: VW003473.D
 Acq: 23 Jun 2018 20:46

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB485-27-29-180619

Tgt Ion: 146 Resp: 8158
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.3 61.0#
 148 49.1 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.257 ug/l
 RT: 14.55 min Scan# 2127
 Delta R.T. 0.06 min
 Lab File: VW003473.D
 Acq: 23 Jun 2018 20:46

Tgt Ion: 75 Resp: 814
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.4 118.2#
 157 0.0 51.5 154.5#

