

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091718\
 Data File : VW005468.D
 Acq On : 18 Sep 2018 08:24
 Operator : SY/AP
 Sample : J4936-23
 Misc : 5.18G/5ML/MSVOA W/SOIL
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

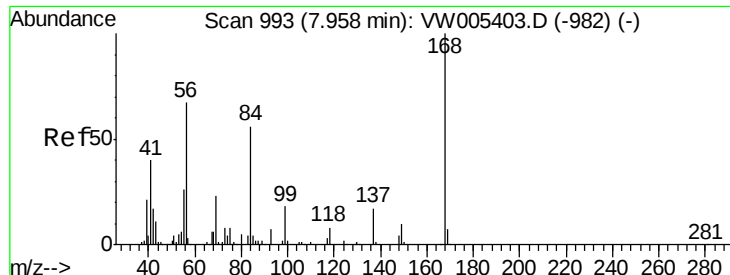
Quant Time: Sep 18 11:36:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	51112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	75057	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	31745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	6098	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.32	65	35233	66.41	ug/l	0.00
Spiked Amount			Recovery	=	132.82%	
35) Dibromofluoromethane	7.89	113	25891	61.52	ug/l	0.00
Spiked Amount			Recovery	=	123.04%	
50) Toluene-d8	10.33	98	48768	25.30	ug/l	0.00
Spiked Amount			Recovery	=	50.60%	
62) 4-Bromofluorobenzene	12.62	95	7158	10.13	ug/l	0.00
Spiked Amount			Recovery	=	20.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	308	Below Cal		95
5) Bromomethane	2.77	94	239	Below Cal	#	4
10) Methyl Iodide	4.29	142	25	4.093	ug/l #	38
11) Tert butyl alcohol	5.19	59	185	Below Cal	#	71
13) Acrolein	4.00	56	24	Below Cal	#	12
16) Acetone	4.15	43	16283	210.580	ug/l	99
18) Methyl Acetate	4.68	43	7615	29.869	ug/l	93
20) Methylene Chloride	4.93	84	6964	8.462	ug/l	95
25) 2-Butanone	7.18	43	2589	20.286	ug/l #	86
29) Tetrahydrofuran	7.54	42	427	5.252	ug/l #	49
31) Cyclohexane	7.95	56	1489	1.758	ug/l #	25
36) 1,1-Dichloropropene	7.96	75	4483	6.311	ug/l #	51
37) Ethyl Acetate	7.28	43	344	1.191	ug/l #	68
38) Carbon Tetrachloride	7.96	117	4897	6.616	ug/l #	16
59) 2-Hexanone	10.98	43	423	2.140	ug/l #	27
64) Tetrachloroethene	10.86	164	427	1.820	ug/l	89
74) N-amyl acetate	12.29	43	120	1.331	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.73	83	150	2.403	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	3637	72.516	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	3637	188.110	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.47	75	51	4.255	ug/l #	5
95) Naphthalene	15.38	128	669	3.356	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.58	180	346	3.314	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

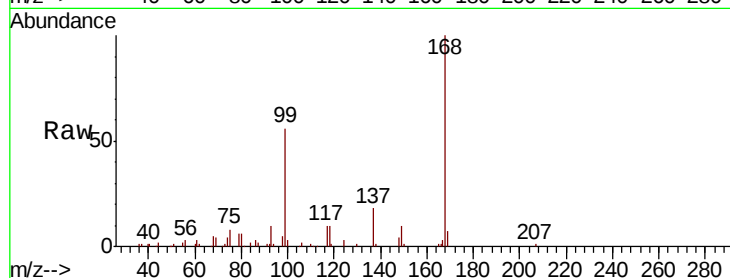
ClientSampled :

Tot Ion:168 Resp: 51112

Ion Ratio Lower Upper

168 100

99 56.1 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

25000

20000

15000

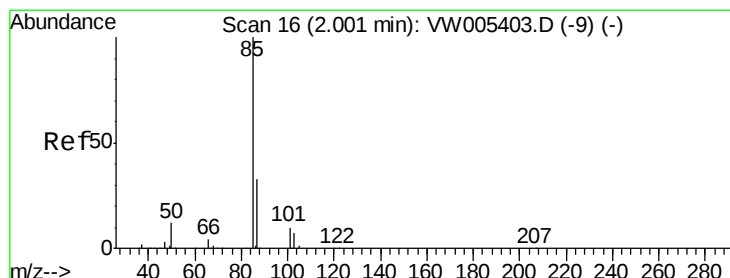
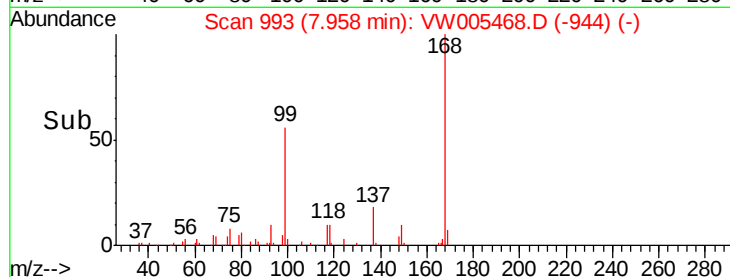
10000

5000

0

Time-->

7.90 8.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW005468.D

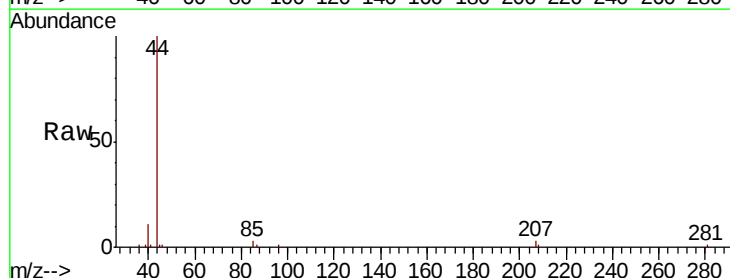
Acq: 18 Sep 2018 08:24

Tgt Ion: 85 Resp: 308

Ion Ratio Lower Upper

85 100

87 29.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

300

250

200

150

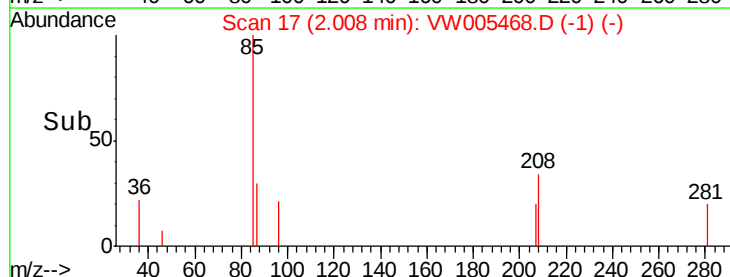
100

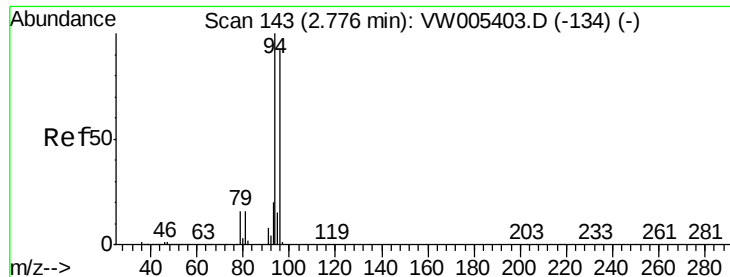
50

0

Time-->

1.96 1.98 2.00 2.02 2.04





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

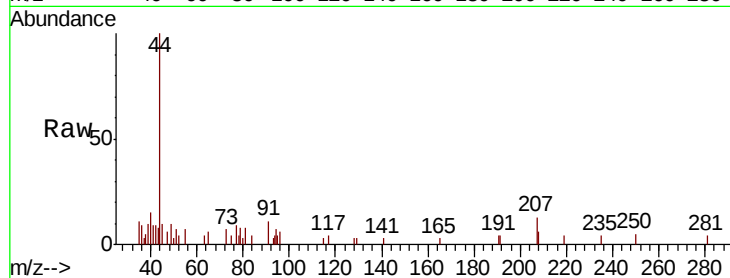
ClientSampled :

Tot Ion: 94 Resp: 239

Ion Ratio Lower Upper

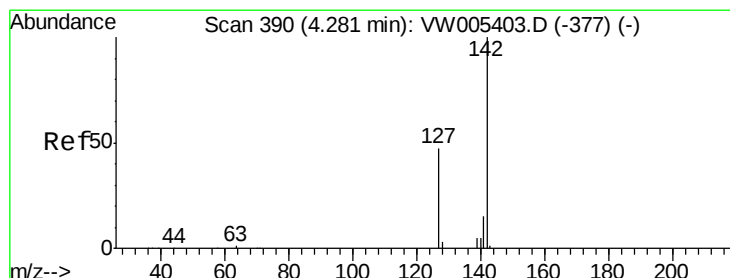
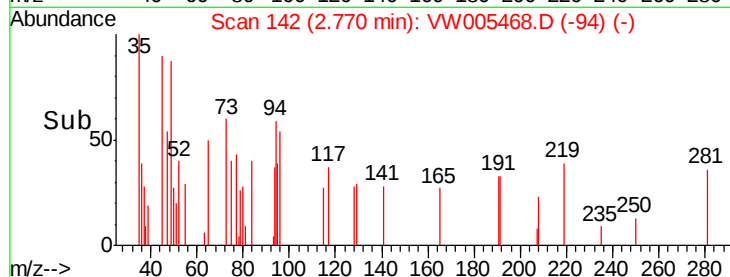
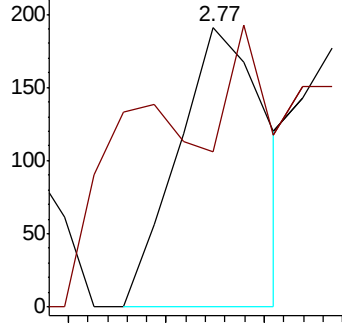
94 100

96 0.0 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#10

Methyl Iodide

Concen: 4.093 ug/l

RT: 4.29 min Scan# 392

Delta R.T. 0.01 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

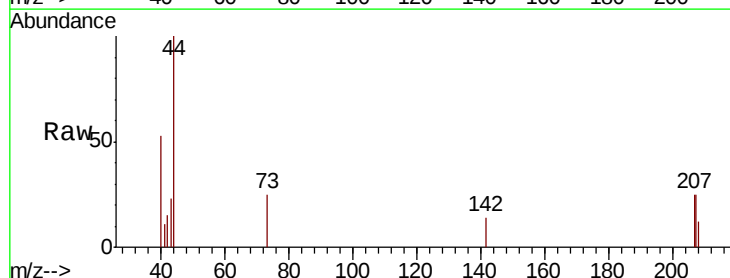
Tgt Ion: 142 Resp: 25

Ion Ratio Lower Upper

142 100

127 0.0 37.5 56.3#

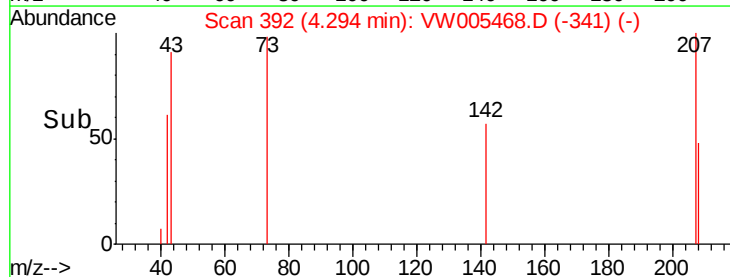
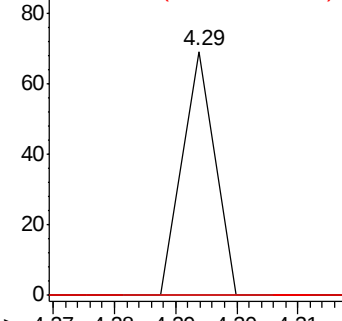
141 0.0 12.4 18.6#

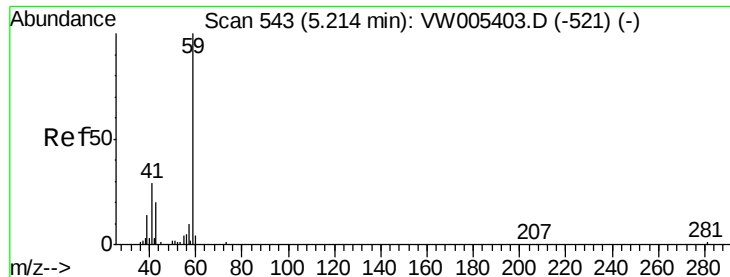


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



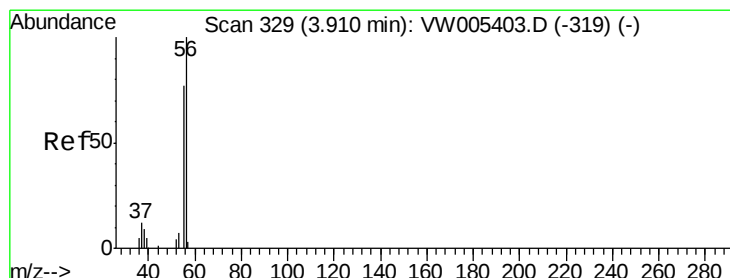
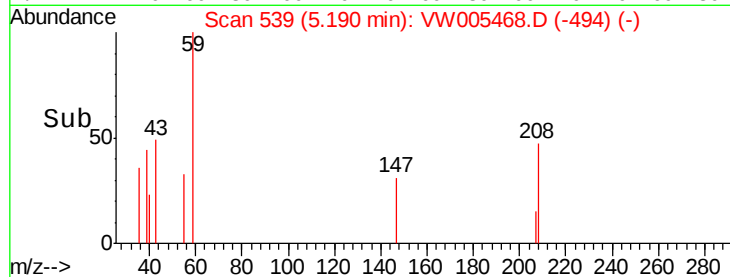
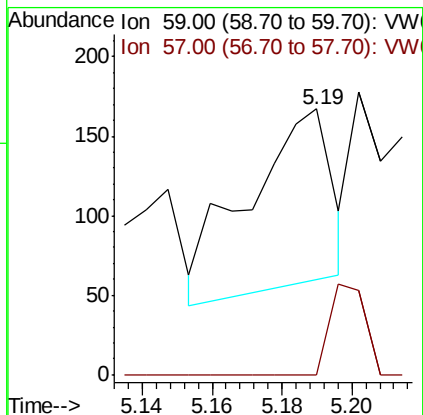
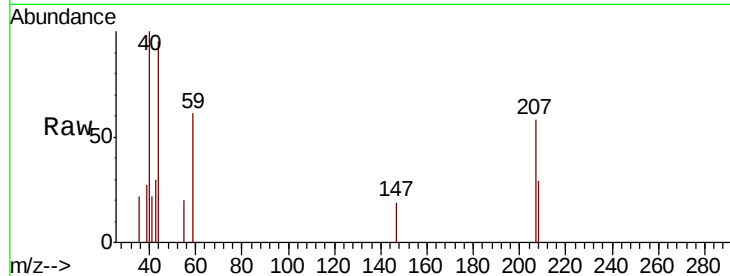


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.19 min Scan# 539
 Delta R.T. -0.02 min
 Lab File: VW005468.D
 Acq: 18 Sep 2018 08:24

Instrument :
 MSVOA_W
 ClientSampled :

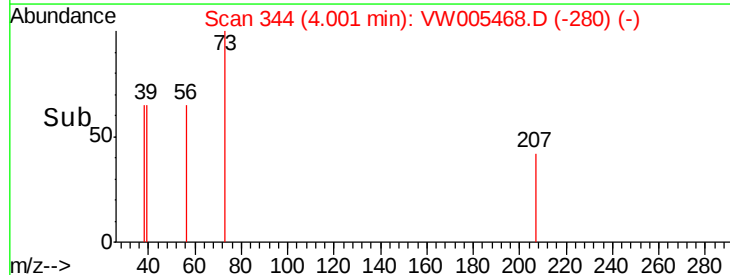
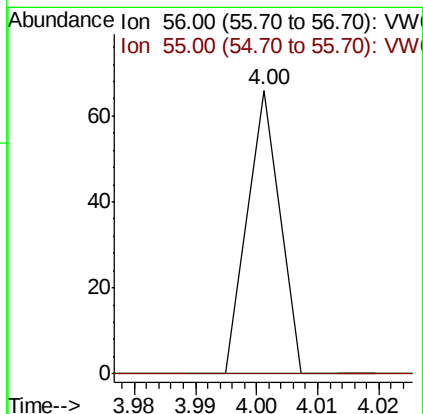
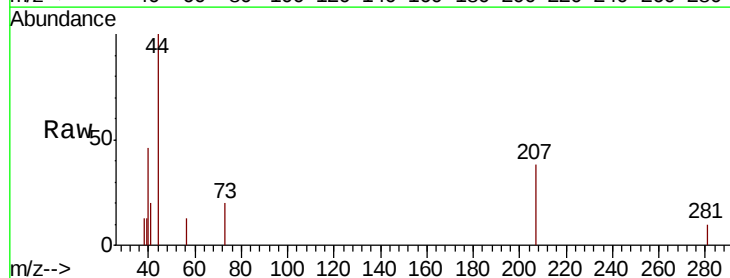
Tot Ion: 59 Resp: 185
 Ion Ratio Lower Upper
 59 100
 57 21.6 8.6 13.0#

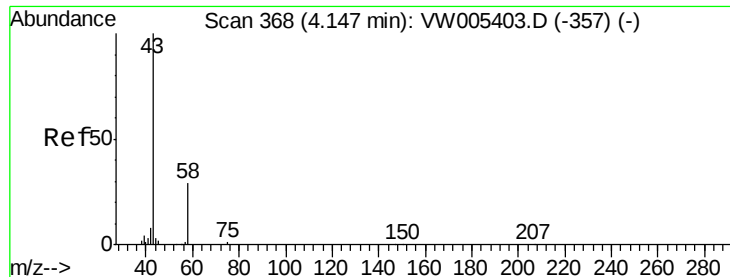


#13

Acrolein
 Concen: Below Cal
 RT: 4.00 min Scan# 344
 Delta R.T. 0.09 min
 Lab File: VW005468.D
 Acq: 18 Sep 2018 08:24

Tgt Ion: 56 Resp: 24
 Ion Ratio Lower Upper
 56 100
 55 0.0 59.8 89.8#





#16

Acetone

Concen: 210.580 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

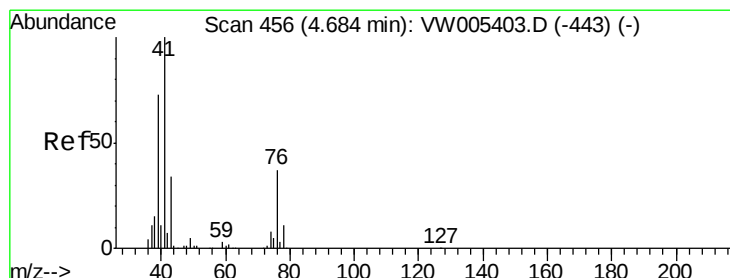
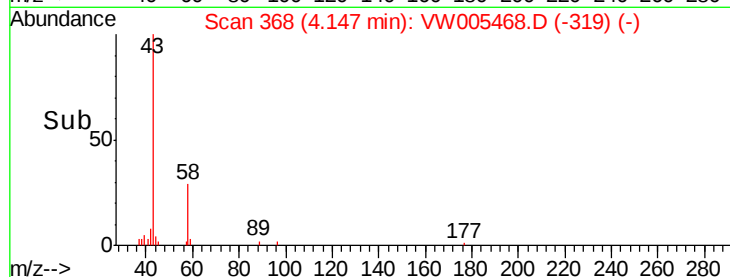
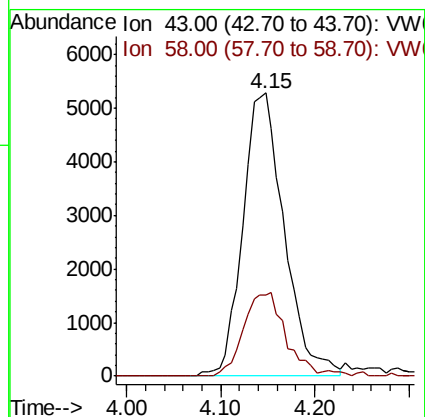
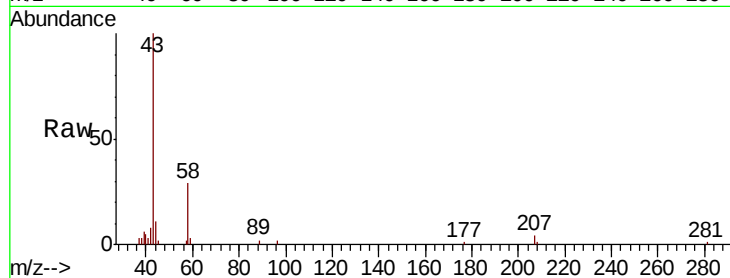
ClientSampled :

Tot Ion: 43 Resp: 16283

Ion Ratio Lower Upper

43 100

58 28.8 22.8 34.2



#18

Methyl Acetate

Concen: 29.869 ug/l

RT: 4.68 min Scan# 456

Delta R.T. 0.00 min

Lab File: VW005468.D

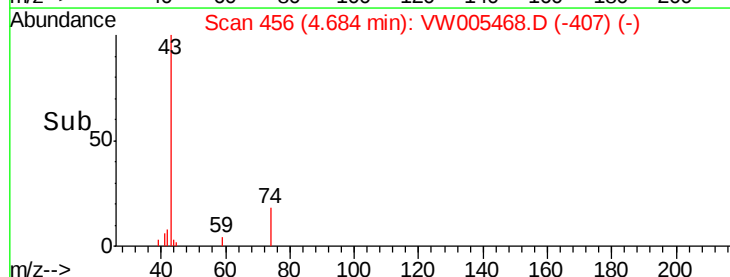
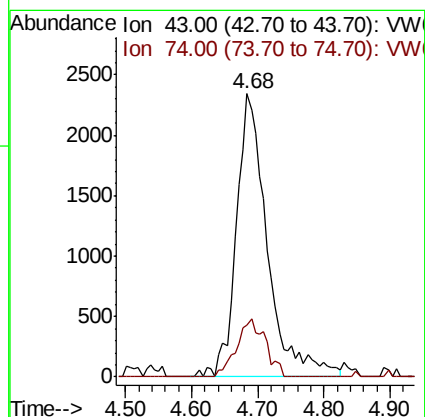
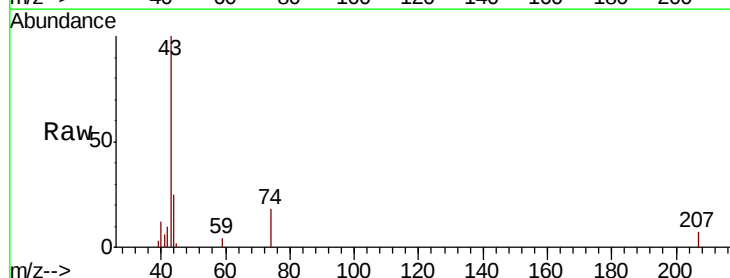
Acq: 18 Sep 2018 08:24

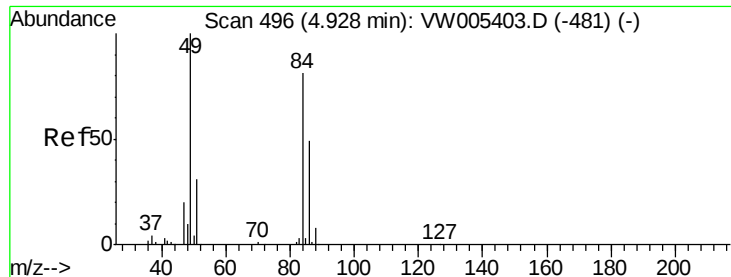
Tgt Ion: 43 Resp: 7615

Ion Ratio Lower Upper

43 100

74 18.9 17.7 26.5

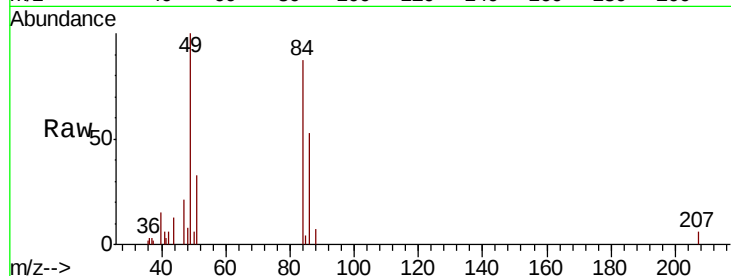




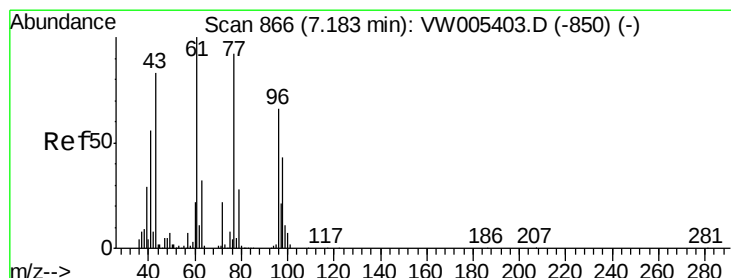
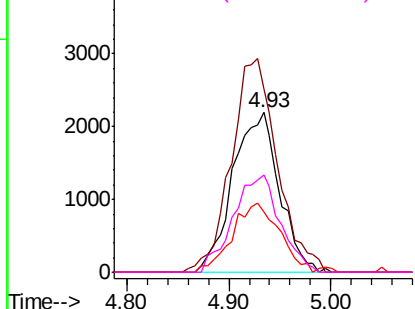
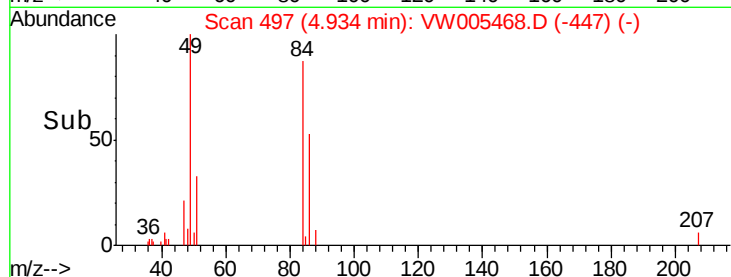
#20
Methvlene Chloride
Concen: 8.462 ug/l
RT: 4.93 min Scan# 497
Delta R.T. 0.01 min
Lab File: VW005468.D
Acq: 18 Sep 2018 08:24

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 6964
Ion Ratio Lower Upper
84 100
49 114.8 99.3 148.9
51 37.7 31.1 46.7
86 61.2 49.1 73.7

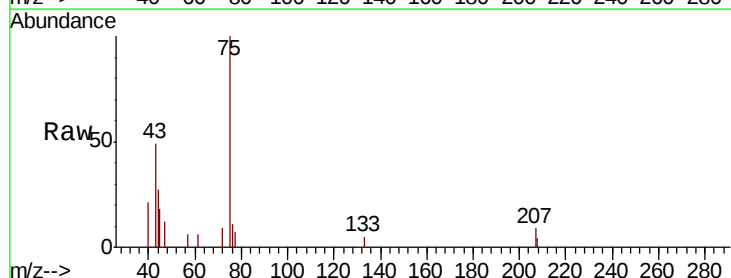


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

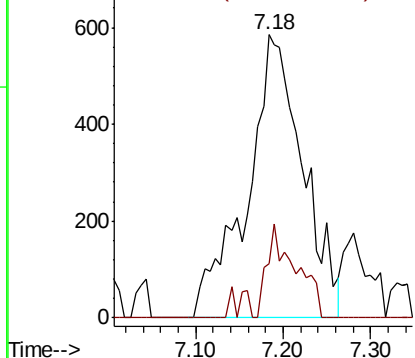
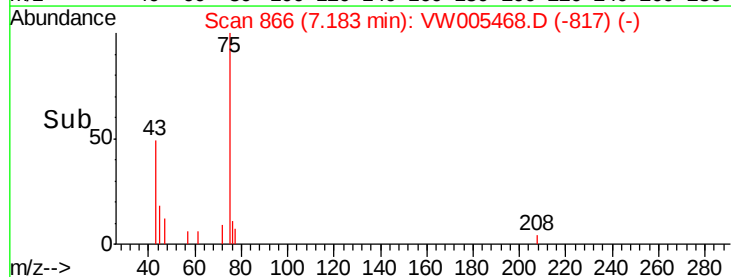


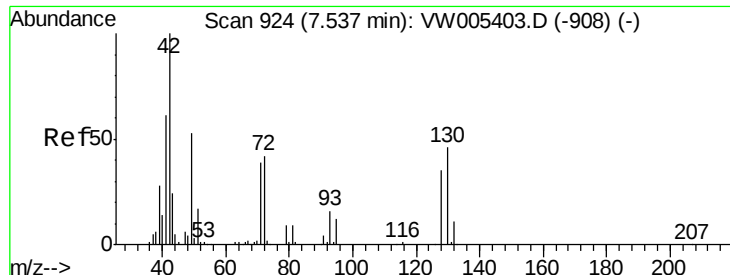
#25
2-Butanone
Concen: 20.286 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.00 min
Lab File: VW005468.D
Acq: 18 Sep 2018 08:24

Tgt Ion: 43 Resp: 2589
Ion Ratio Lower Upper
43 100
72 19.3 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

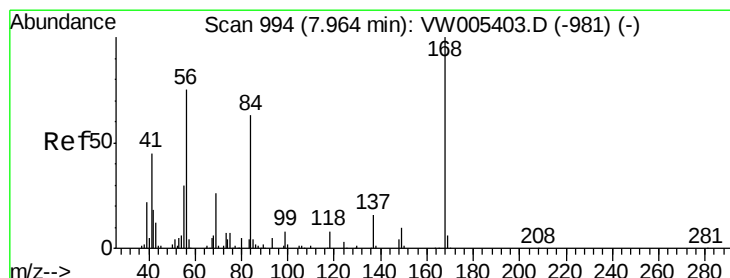
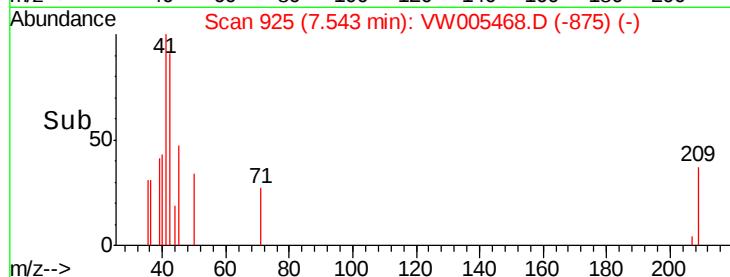
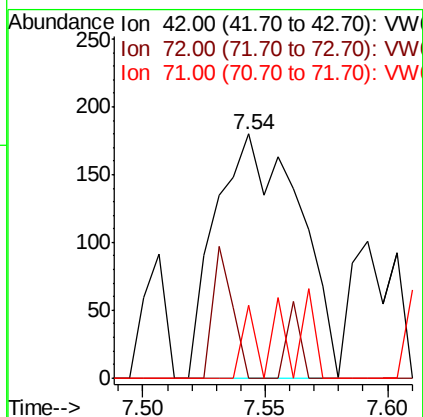
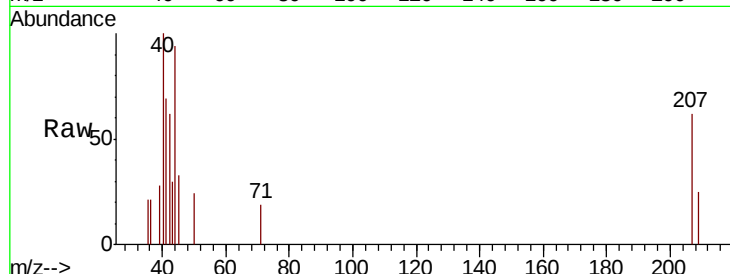




#29
Tetrahydrofuran
Concen: 5.252 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW005468.D
Acq: 18 Sep 2018 08:24

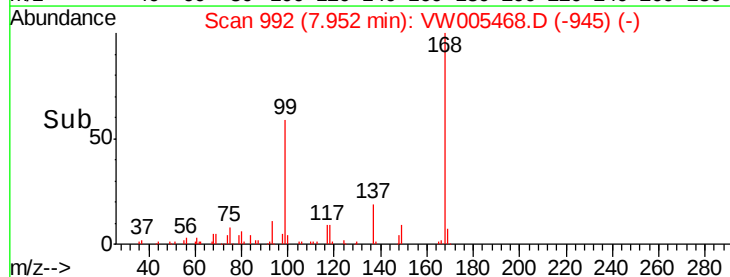
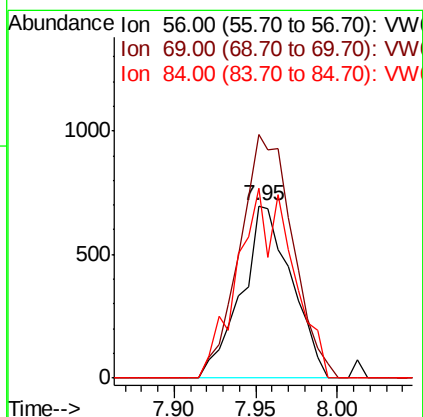
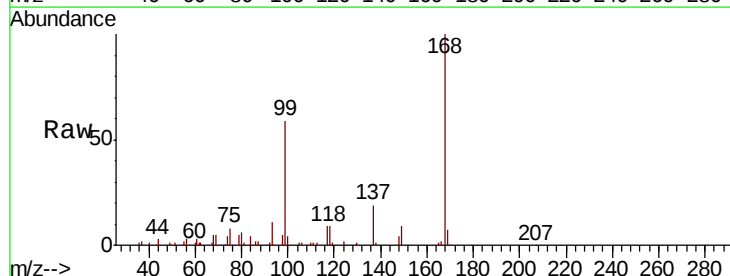
Instrument :
MSVOA_W
ClientSampled :

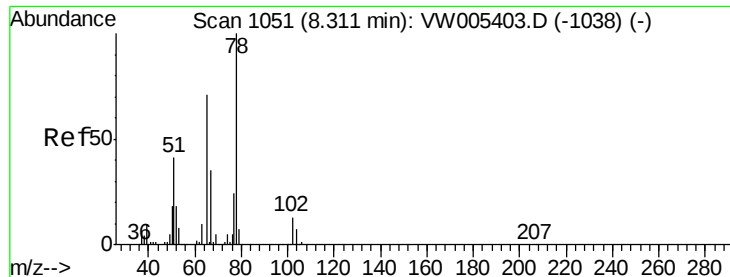
Tot Ion: 42 Resp: 427
Ion Ratio Lower Upper
42 100
72 12.9 33.2 49.8#
71 4.7 31.0 46.6#



#31
Cyclohexane
Concen: 1.758 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005468.D
Acq: 18 Sep 2018 08:24

Tgt Ion: 56 Resp: 1489
Ion Ratio Lower Upper
56 100
69 141.5 27.2 40.8#
84 110.2 66.7 100.1#





#33

1,2-Dichloroethane-d4

Concen: 66.409 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

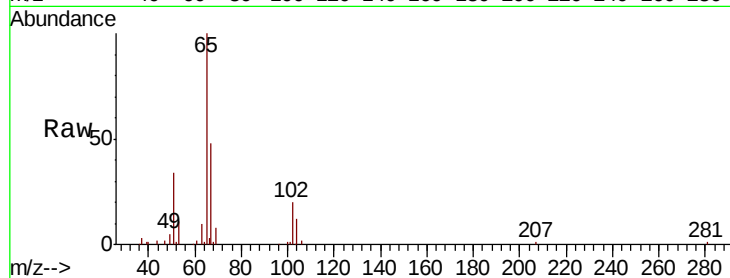
ClientSampled :

Tot Ion: 65 Resp: 35233

Ion Ratio Lower Upper

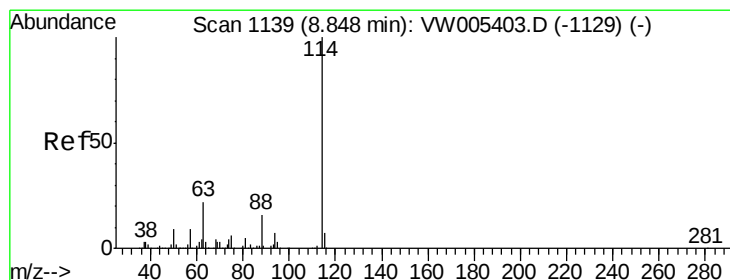
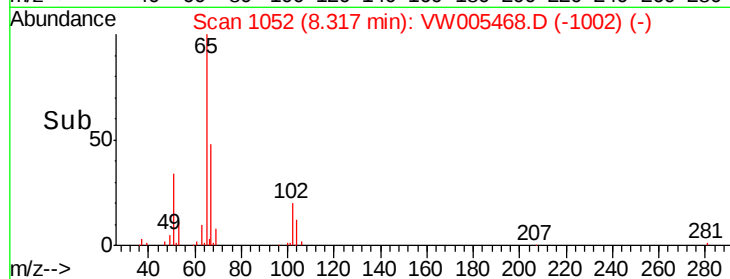
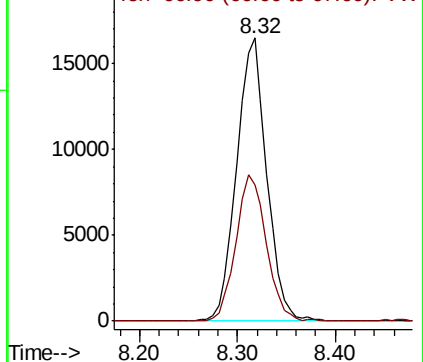
65 100

67 52.3 0.0 100.6



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# 1139

Delta R.T. 0.00 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

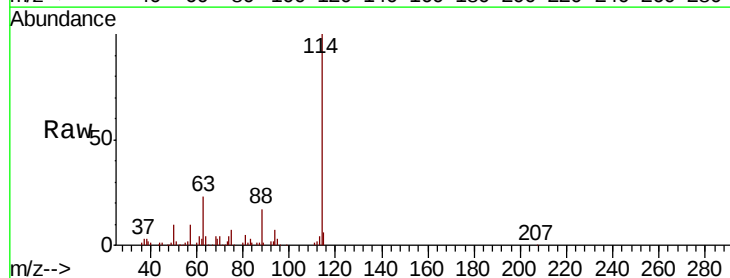
Tgt Ion: 114 Resp: 75057

Ion Ratio Lower Upper

114 100

63 23.4 0.0 43.4

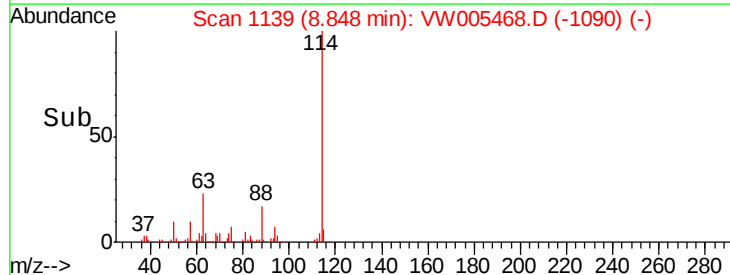
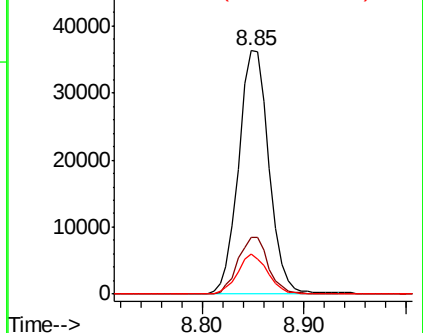
88 16.7 0.0 31.8

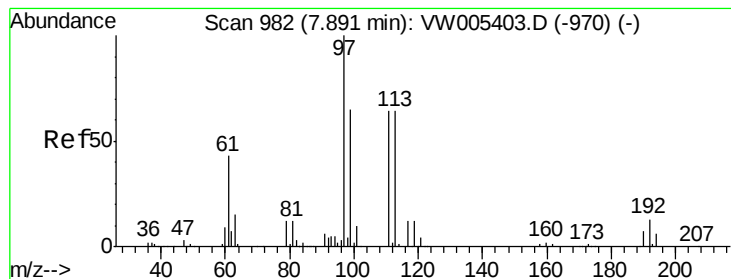


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 61.523 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.00 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

ClientSampleId :

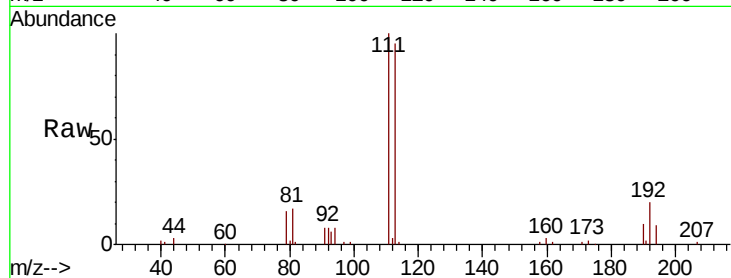
Tot Ion:113 Resp: 25891

Ion Ratio Lower Upper

113 100

111 106.9 82.3 123.5

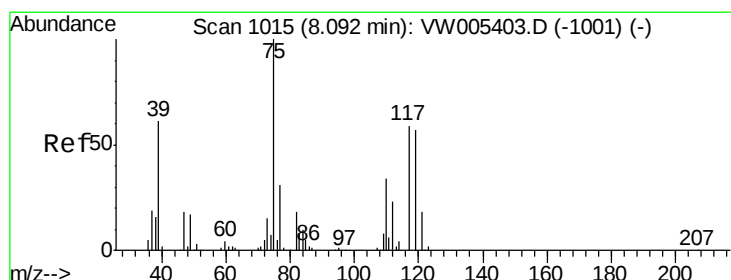
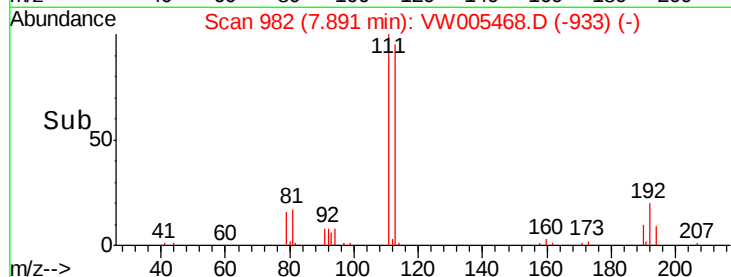
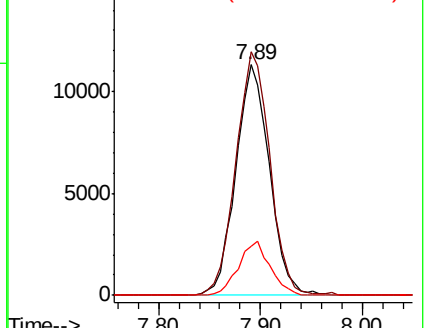
192 21.9 16.5 24.7



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: 6.311 ug/l

RT: 7.96 min Scan# 994

Delta R.T. -0.13 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

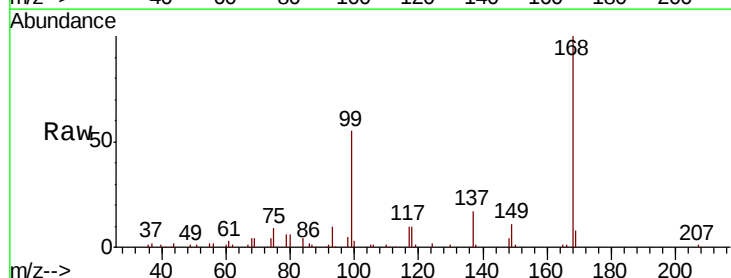
Tgt Ion: 75 Resp: 4483

Ion Ratio Lower Upper

75 100

110 9.0 16.8 50.4#

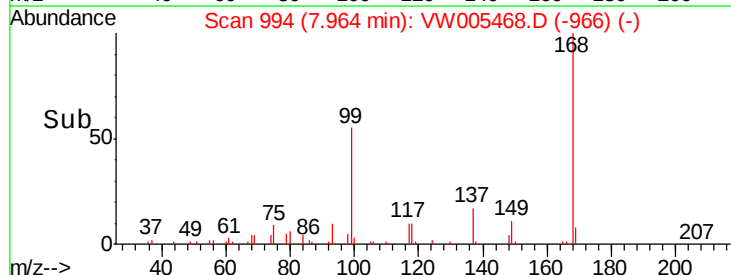
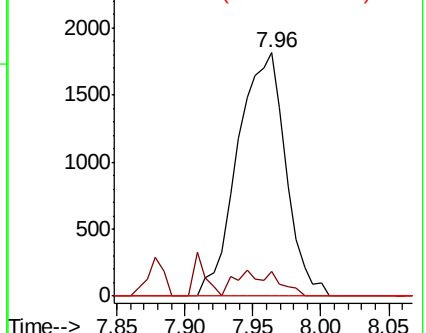
77 0.0 24.2 36.4#

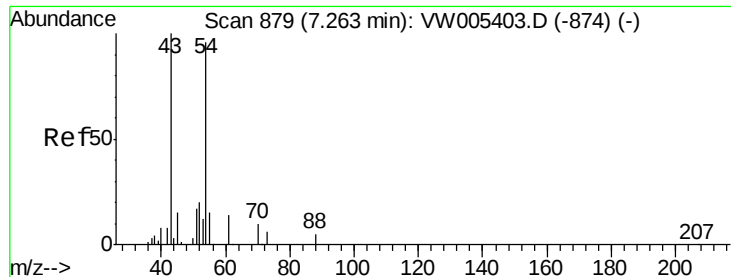


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 1.191 ug/l

RT: 7.28 min Scan# 882

Delta R.T. 0.02 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

ClientSampled :

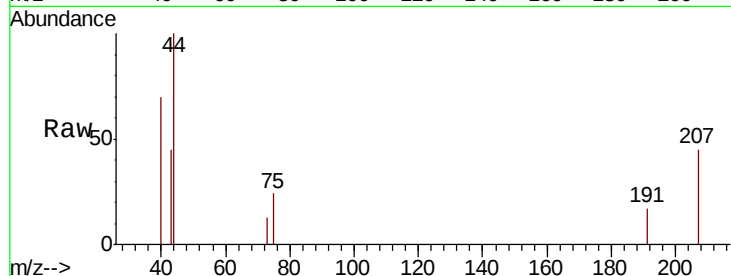
Tot Ion: 43 Resp: 344

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

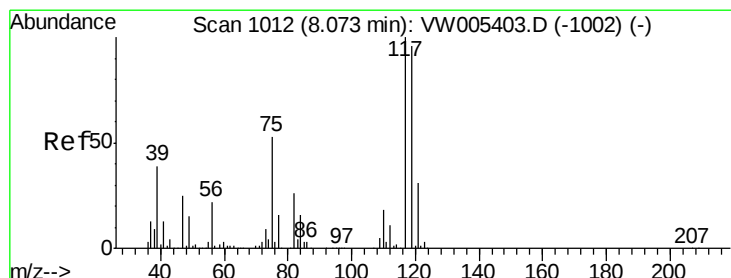
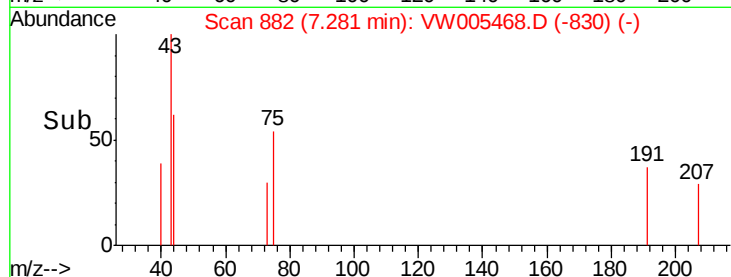
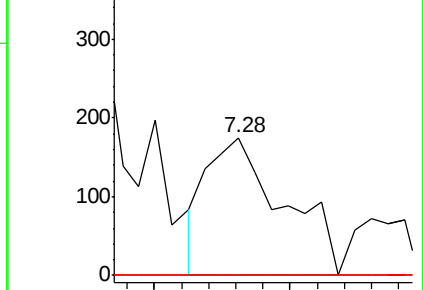
70 0.0 8.2 12.4#



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: 6.616 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

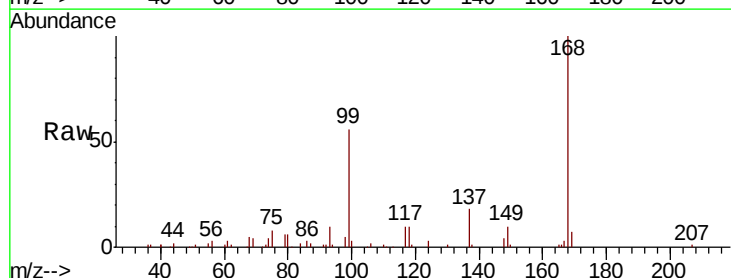
Tgt Ion: 117 Resp: 4897

Ion Ratio Lower Upper

117 100

119 5.3 76.8 115.2#

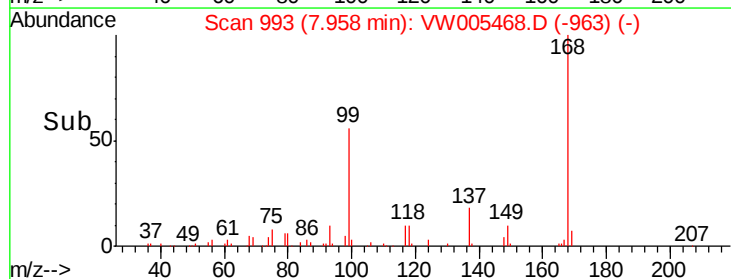
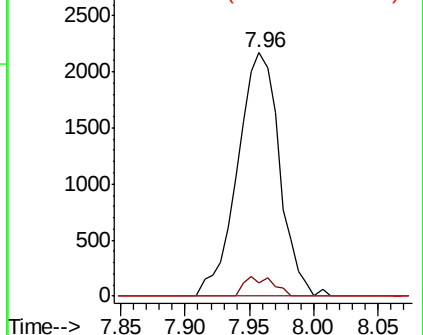
121 0.0 24.7 37.1#

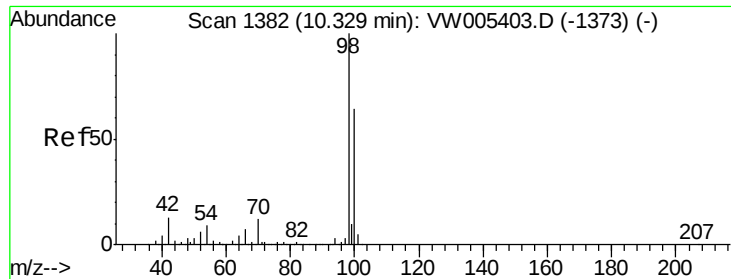


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 25.305 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

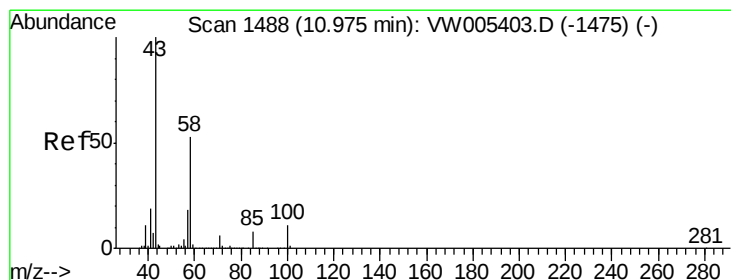
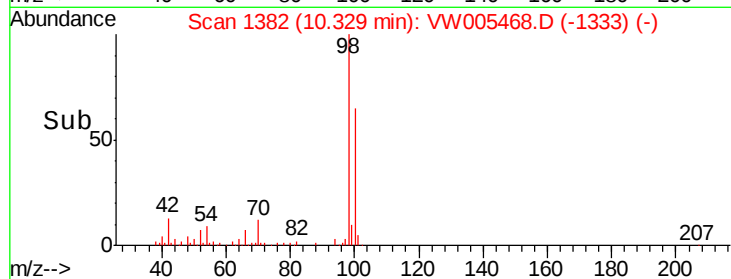
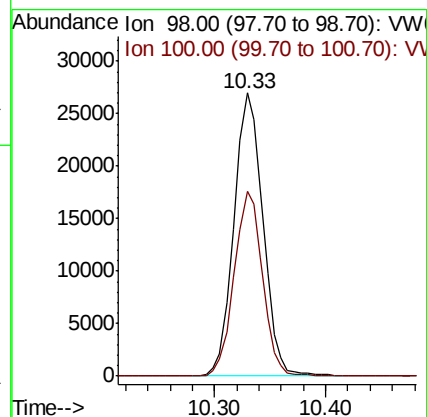
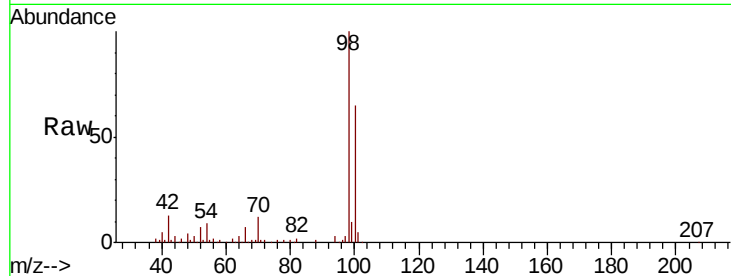
ClientSampled :

Tot Ion: 98 Resp: 48768

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.0



#59

2-Hexanone

Concen: 2.140 ug/l

RT: 10.98 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VW005468.D

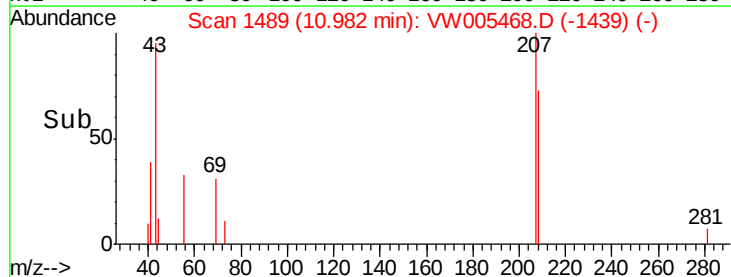
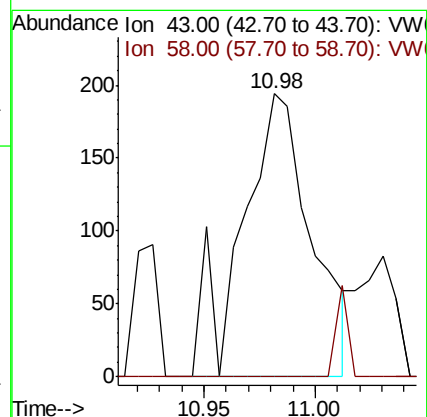
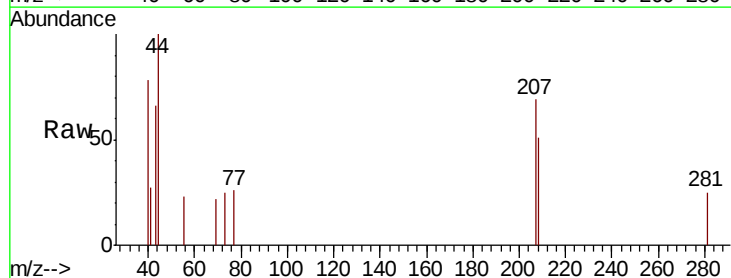
Acq: 18 Sep 2018 08:24

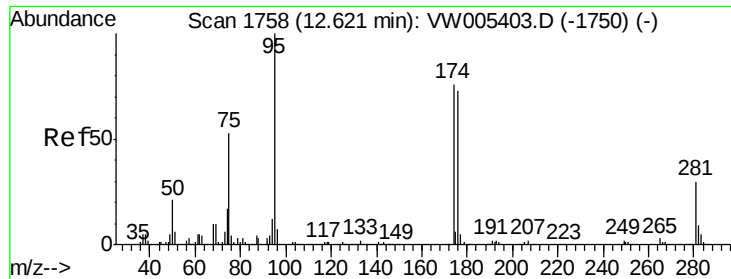
Tgt Ion: 43 Resp: 423

Ion Ratio Lower Upper

43 100

58 0.0 25.5 76.5#

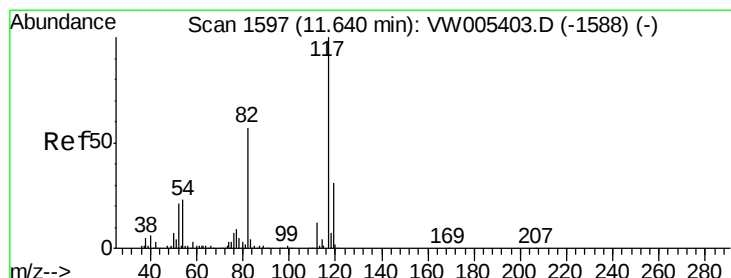
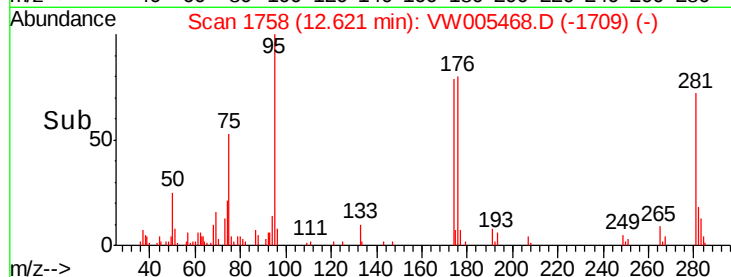
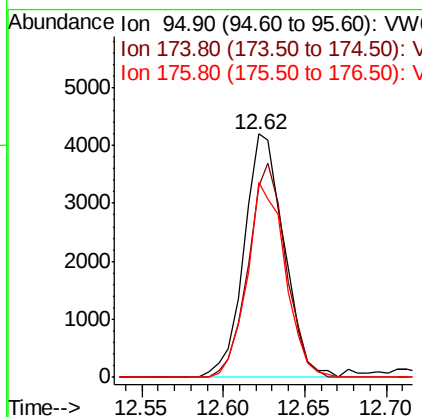
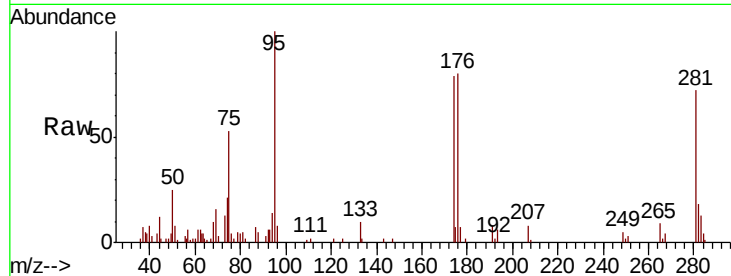




#62
4-Bromofluorobenzene
Concen: 10.129 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW005468.D
Acq: 18 Sep 2018 08:24

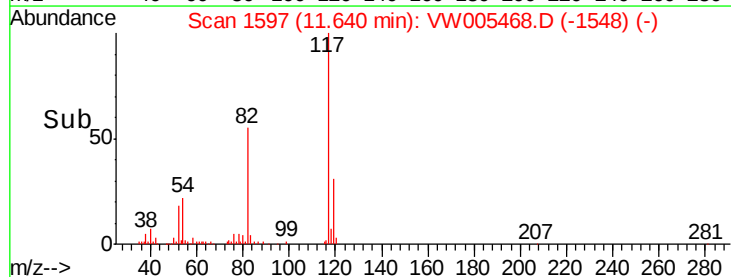
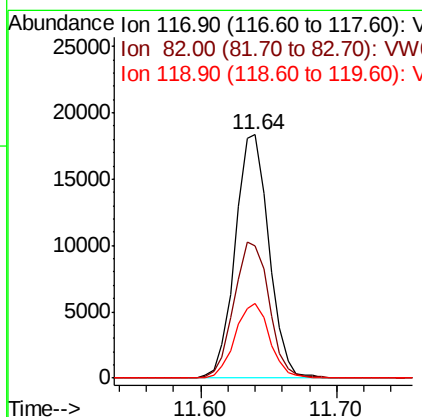
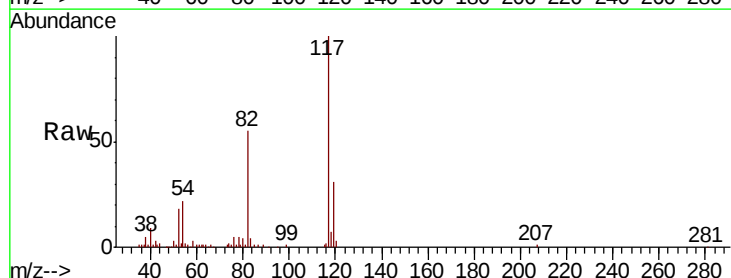
Instrument :
MSVOA_W
ClientSampled :

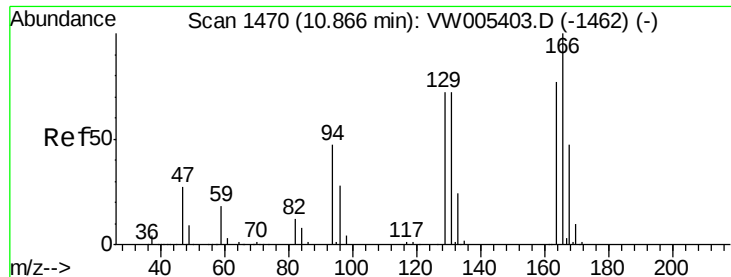
Tot Ion: 95 Resp: 7158
Ion Ratio Lower Upper
95 100
174 82.9 0.0 161.2
176 76.3 0.0 156.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VW005468.D
Acq: 18 Sep 2018 08:24

Tgt Ion: 117 Resp: 31745
Ion Ratio Lower Upper
117 100
82 54.6 45.9 68.9
119 30.6 24.8 37.2





#64

Tetrachloroethene

Concen: 1.820 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:164 Resp: 427

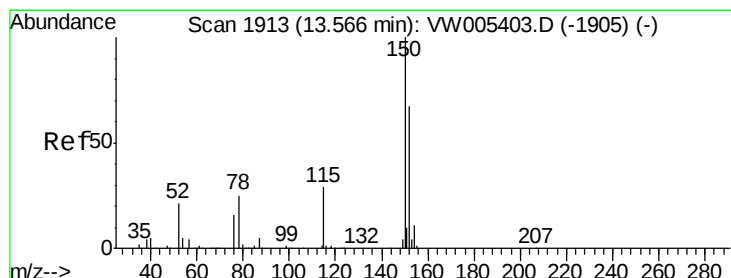
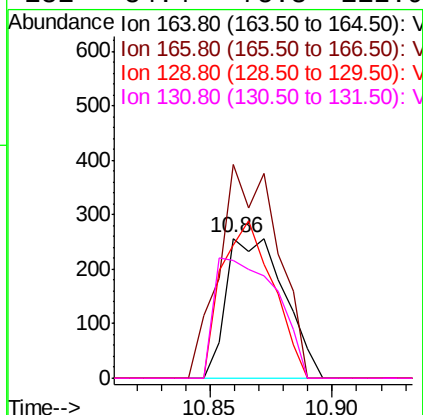
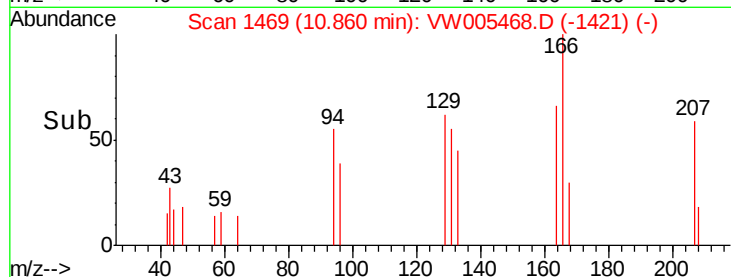
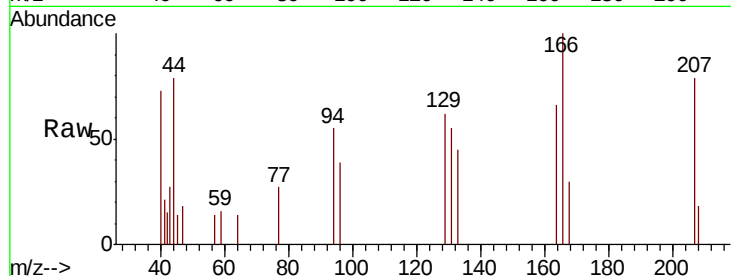
Ion Ratio Lower Upper

164 100

166 152.5 104.0 156.0

129 94.9 74.9 112.3

131 84.4 75.3 112.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

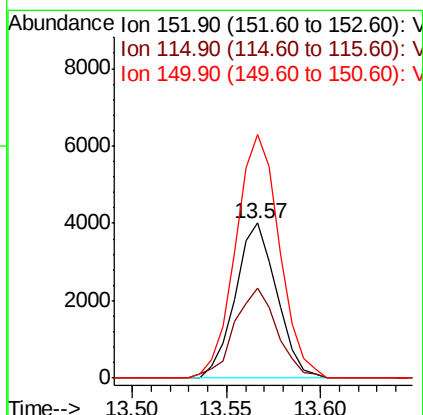
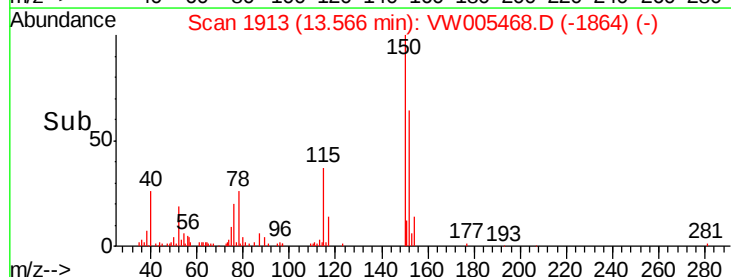
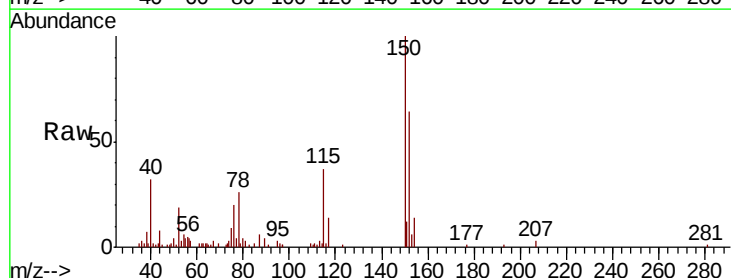
Tgt Ion:152 Resp: 6098

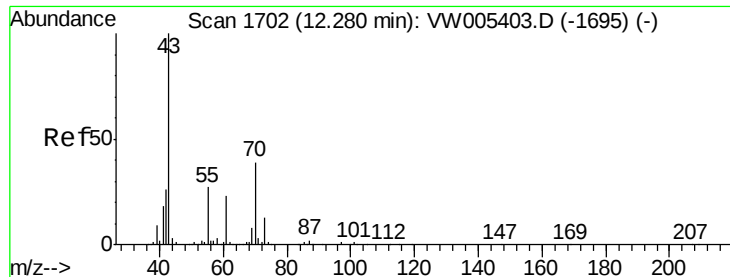
Ion Ratio Lower Upper

152 100

115 60.5 29.5 88.5

150 166.1 0.0 345.6





#74

N-amvl acetate

Concen: 1.331 ug/l

RT: 12.29 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 43 Resp: 120

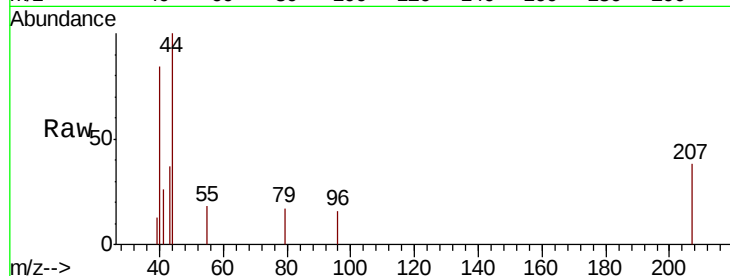
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 160.8 21.4 32.0#

61 0.0 18.3 27.5#

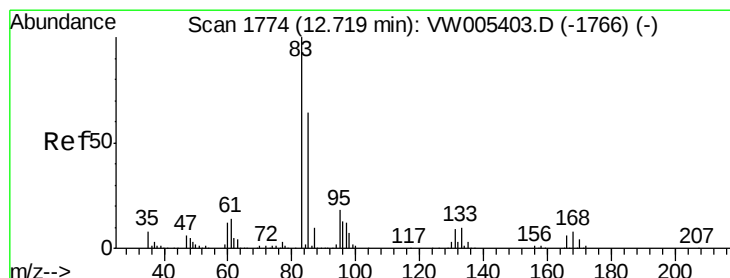
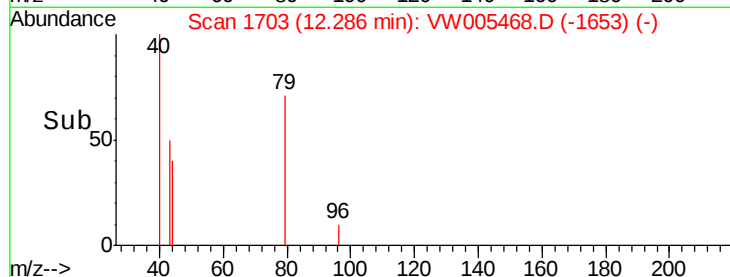
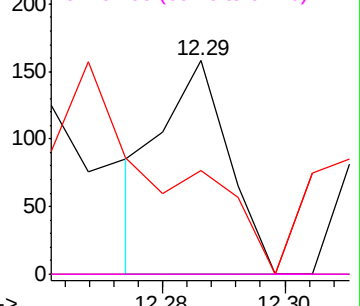


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 2.403 ug/l

RT: 12.73 min Scan# 1775

Delta R.T. 0.01 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

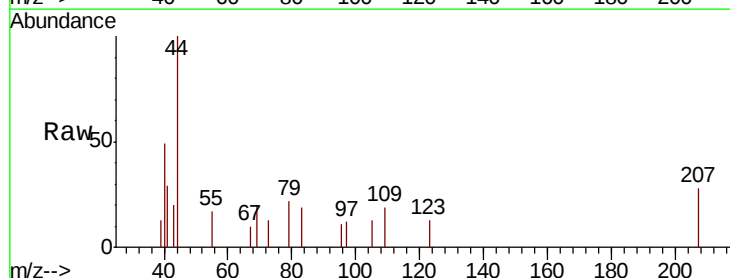
Tgt Ion: 83 Resp: 150

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

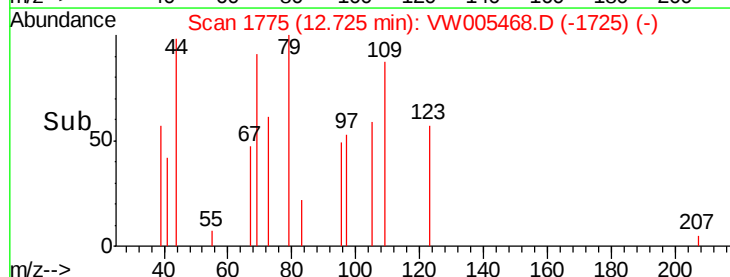
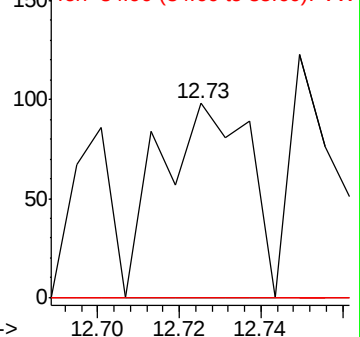
85 0.0 31.6 95.0#

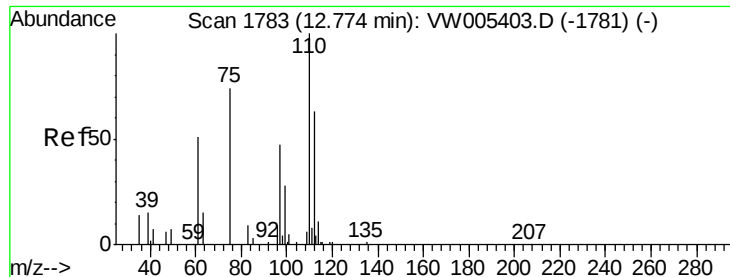


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 72.516 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

Instrument :

MSVOA_W

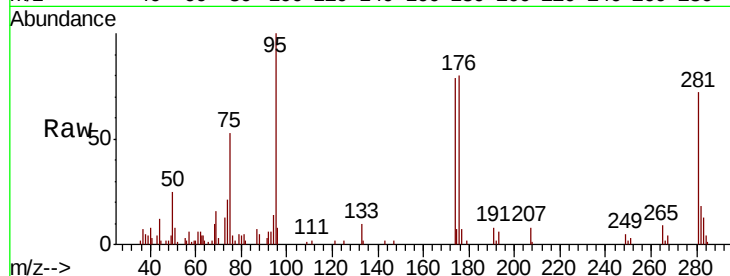
ClientSampled :

Tot Ion: 75 Resp: 3637

Ion Ratio Lower Upper

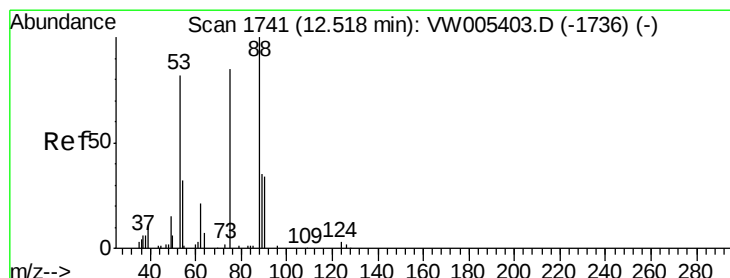
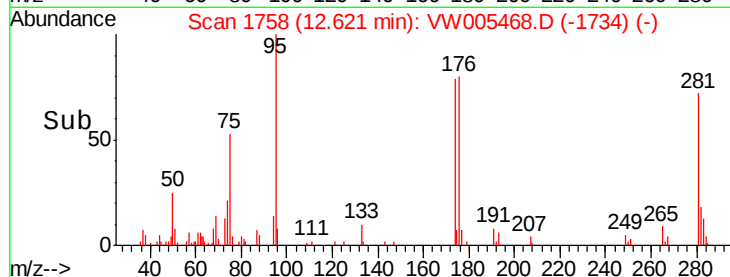
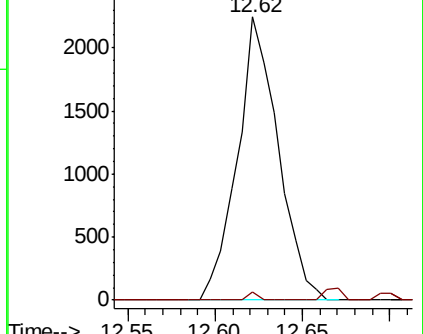
75 100

77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 188.110 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005468.D

Acq: 18 Sep 2018 08:24

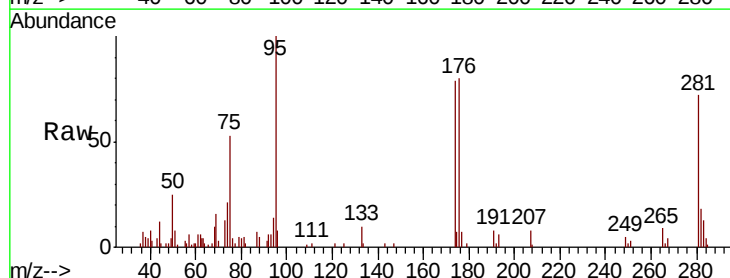
Tgt Ion: 75 Resp: 3637

Ion Ratio Lower Upper

75 100

53 0.0 83.2 124.8#

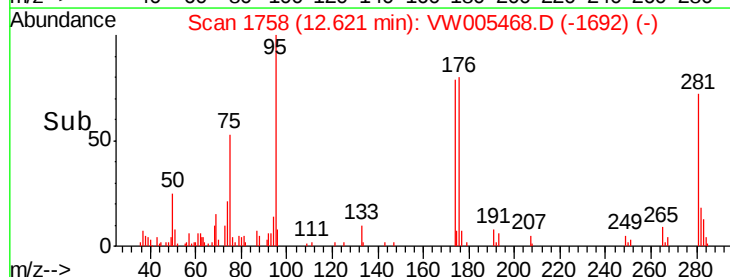
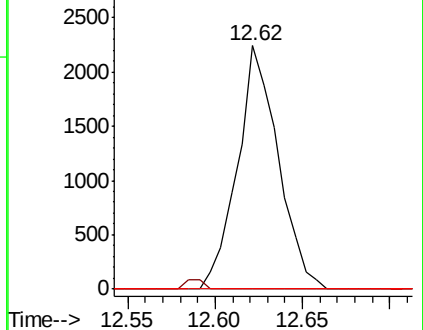
89 0.0 36.6 54.8#

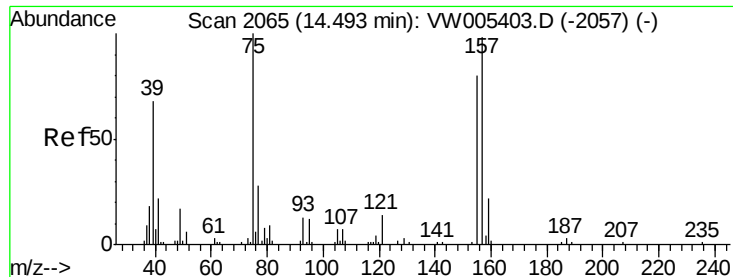


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

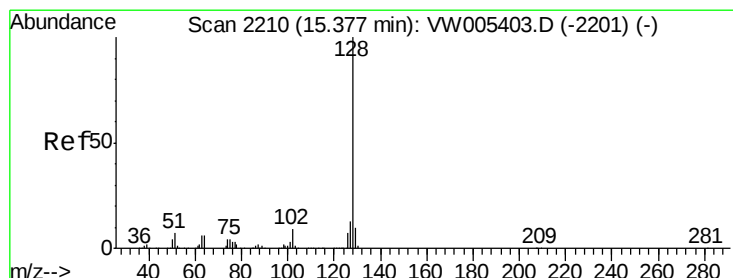
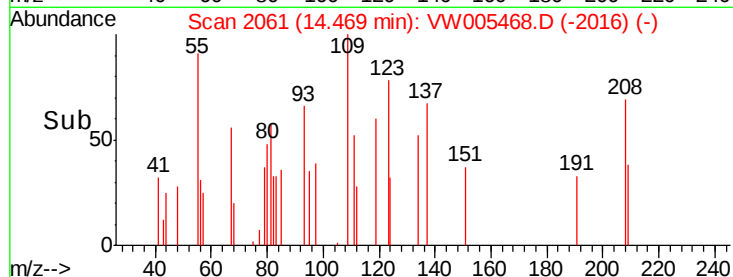
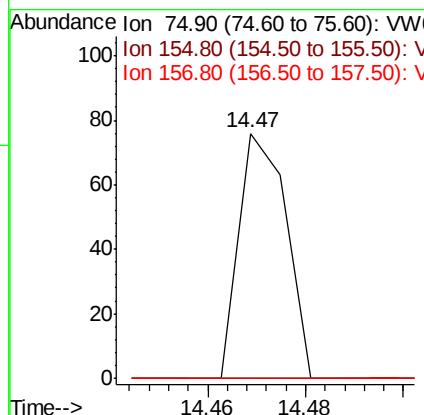
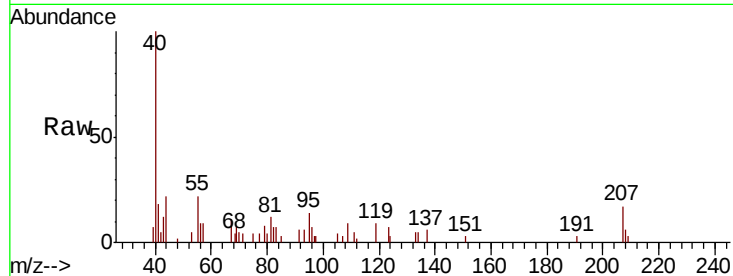




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.255 ug/l
 RT: 14.47 min Scan# 2061
 Delta R.T. -0.02 min
 Lab File: VW005468.D
 Acq: 18 Sep 2018 08:24

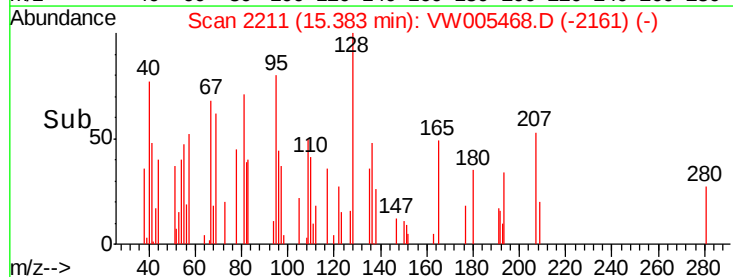
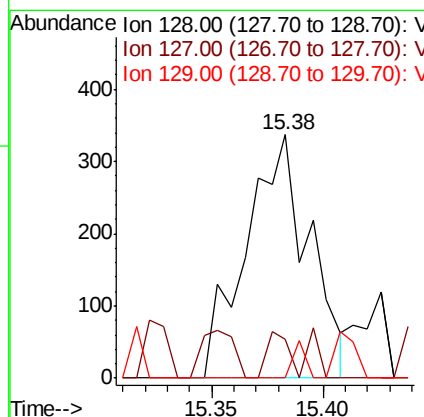
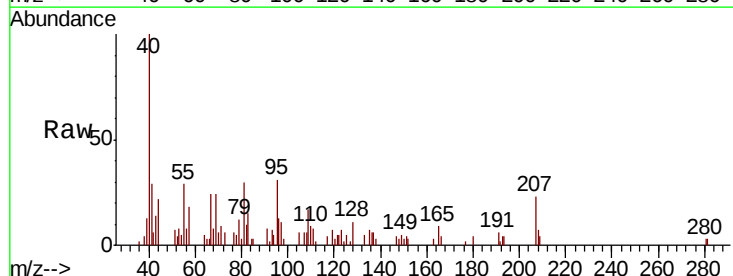
Instrument :
 MSVOA_W
 ClientSampled :

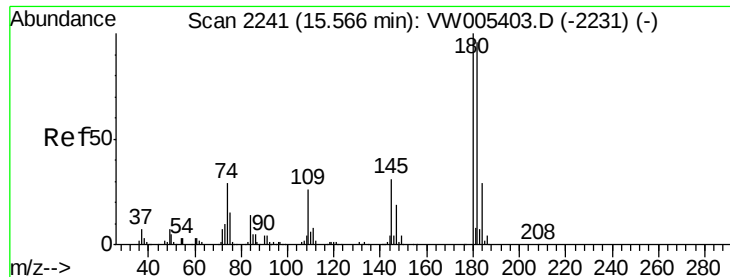
Tot Ion	Ratio	Lower	Upper
75	100		
155	0.0	39.0	117.0#
157	0.0	49.9	149.6#



#95
 Naphthalene
 Concen: 3.356 ug/l
 RT: 15.38 min Scan# 2211
 Delta R.T. 0.01 min
 Lab File: VW005468.D
 Acq: 18 Sep 2018 08:24

Tgt Ion	Ratio	Lower	Upper
128	100		
127	6.4	11.0	16.4#
129	2.8	8.7	13.1#

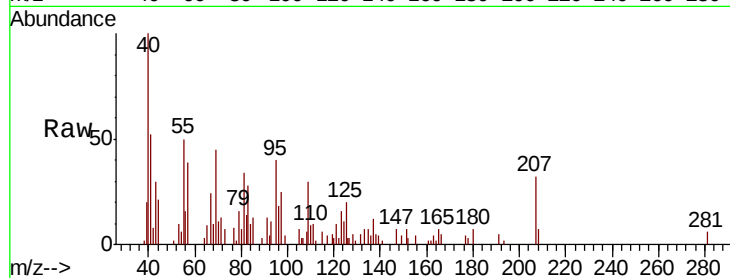




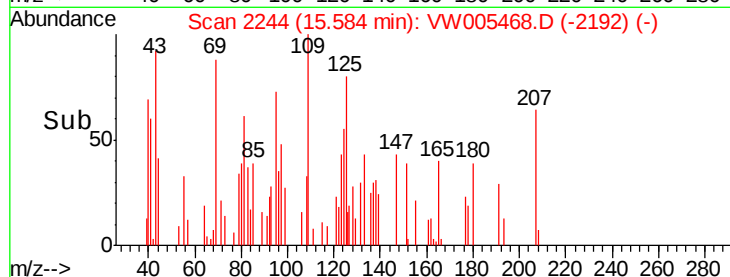
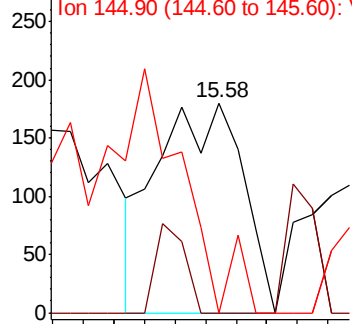
#96
 1,2,3-Trichlorobenzene
 Concen: 3.314 ug/l
 RT: 15.58 min Scan# 2244
 Delta R.T. 0.02 min
 Lab File: VW005468.D
 Acq: 18 Sep 2018 08:24

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.4#
145	0.0	15.9	47.7#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V



Time-->