

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072318\
 Data File : VW004157.D
 Acq On : 24 Jul 2018 01:35
 Operator : SY/AP
 Sample : J4062-01RE
 Misc : 6.35G/5ML/MSVOA W/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 24 04:49:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W071618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 15:06:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	62014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	132838	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	122912	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	36618	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	73475	106.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	212.00%	
35) Dibromofluoromethane	7.88	113	57756	67.76	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	135.52%	
50) Toluene-d8	10.33	98	132780	40.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	80.30%	
62) 4-Bromofluorobenzene	12.62	95	37983	31.85	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	63.70%	

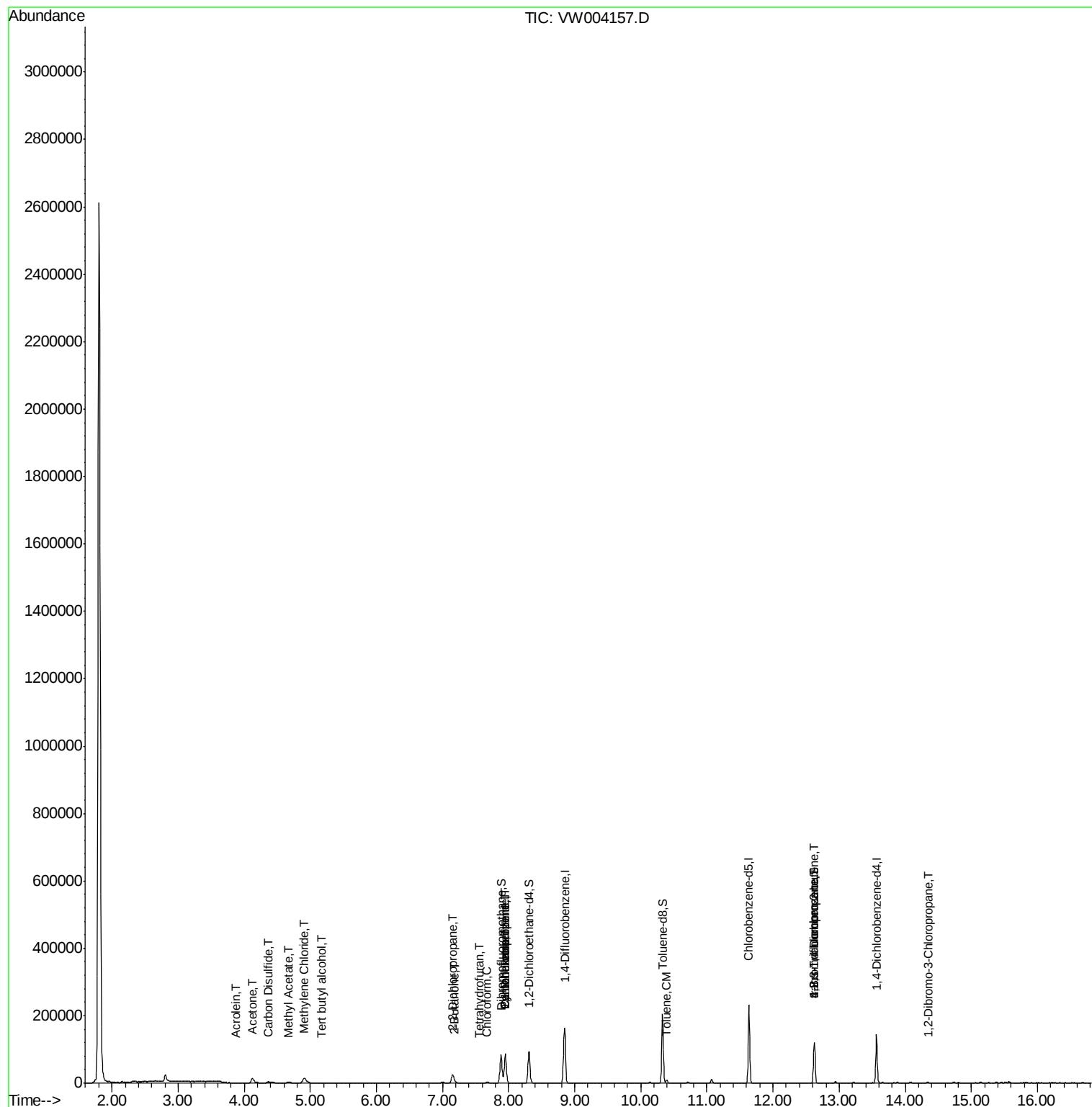
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	80	1.672	ug/l #	72
13) Acrolein	3.88	56	67	1.363	ug/l #	78
16) Acetone	4.12	43	24262	145.653	ug/l	95
17) Carbon Disulfide	4.37	76	7632	4.057	ug/l #	92
18) Methyl Acetate	4.67	43	5408	13.525	ug/l	100
20) Methylene Chloride	4.91	84	13157	11.901	ug/l	94
25) 2-Butanone	7.18	43	5427	24.210	ug/l #	88
26) 2,2-Dichloropropane	7.15	77	1618	2.298	ug/l #	52
29) Tetrahydrofuran	7.54	42	343	2.457	ug/l #	59
30) Chloroform	7.67	83	3119	2.556	ug/l #	71
31) Cyclohexane	7.95	56	1602	1.393	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	5469	4.002	ug/l #	46
38) Carbon Tetrachloride	7.95	117	6302	4.935	ug/l #	16
52) Toluene	10.38	92	2981	1.271	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	19662	54.086	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	19662	119.637	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.34	75	189	2.124	ug/l #	3

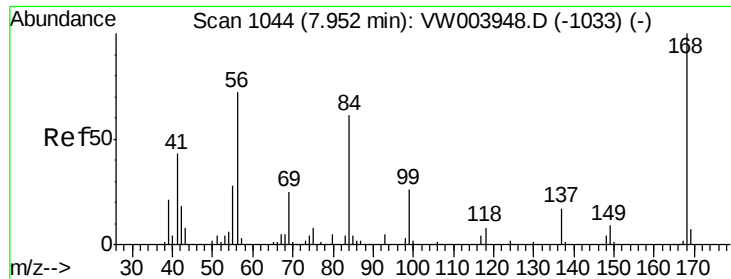
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

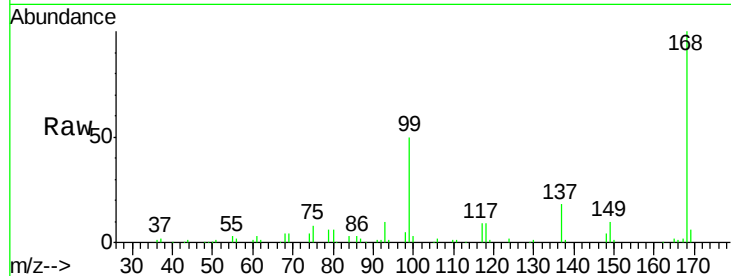
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 62014

Ion Ratio Lower Upper

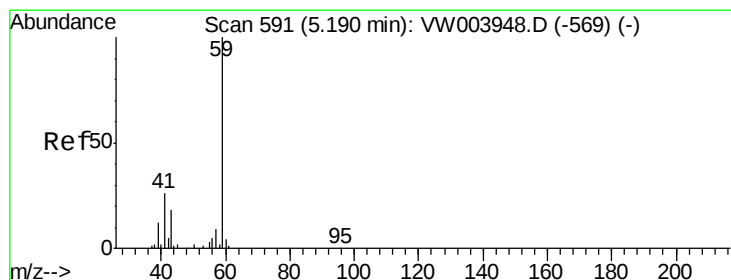
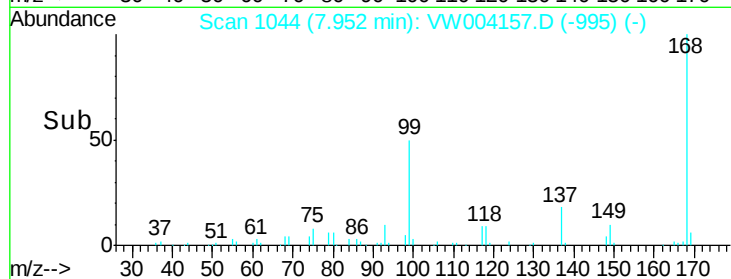
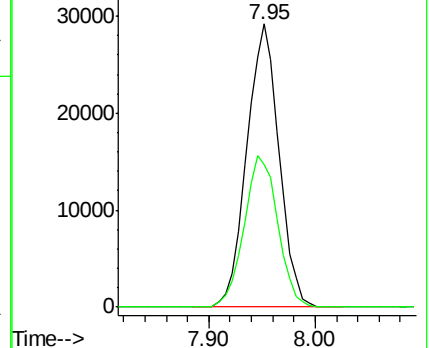
168 100

99 50.5 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.672 ug/l

RT: 5.17 min Scan# 587

Delta R.T. -0.02 min

Lab File: VW004157.D

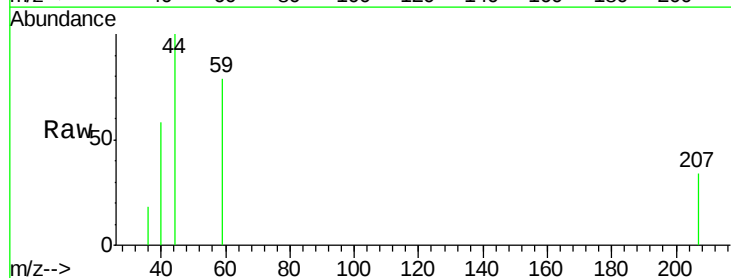
Acq: 24 Jul 2018 01:35

Tgt Ion: 59 Resp: 80

Ion Ratio Lower Upper

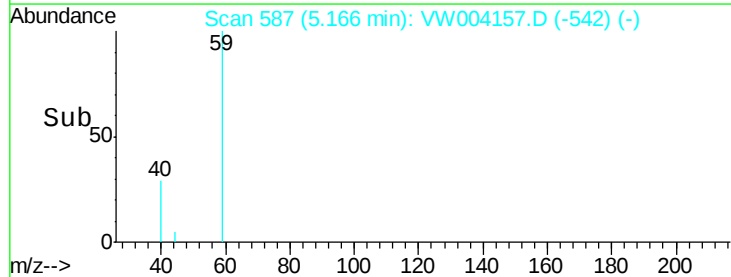
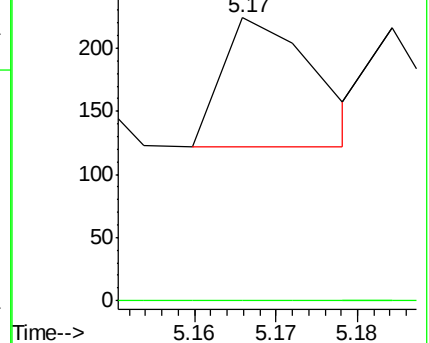
59 100

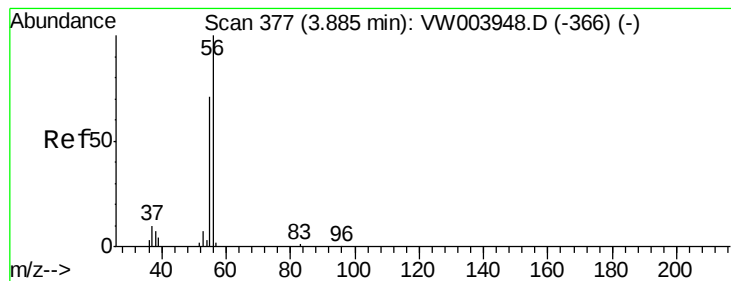
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.363 ug/l

RT: 3.88 min Scan# 376

Delta R.T. -0.01 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

Instrument :

MSVOA_W

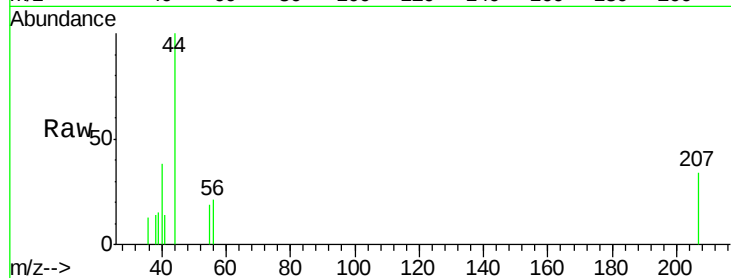
ClientSampled :

Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

56 100

55 91.0 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.88

120

100

80

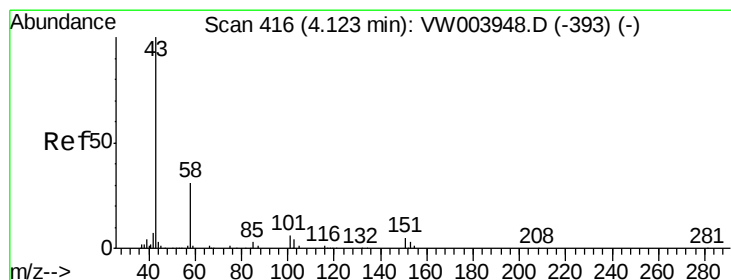
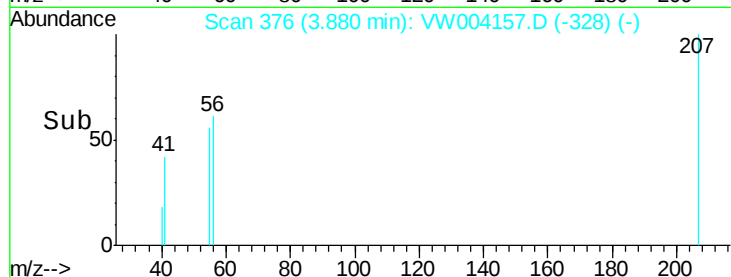
60

40

20

0

Time-->



#16

Acetone

Concen: 145.653 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.00 min

Lab File: VW004157.D

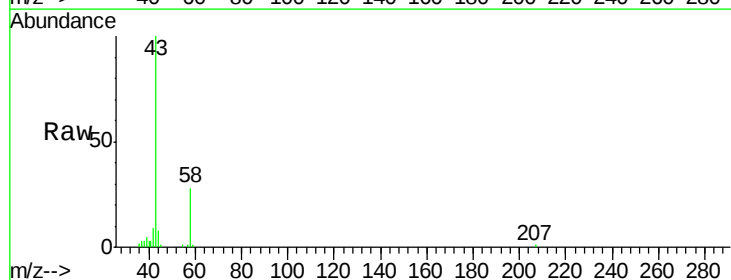
Acq: 24 Jul 2018 01:35

Tgt Ion: 43 Resp: 24262

Ion Ratio Lower Upper

43 100

58 27.9 24.5 36.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10000

8000

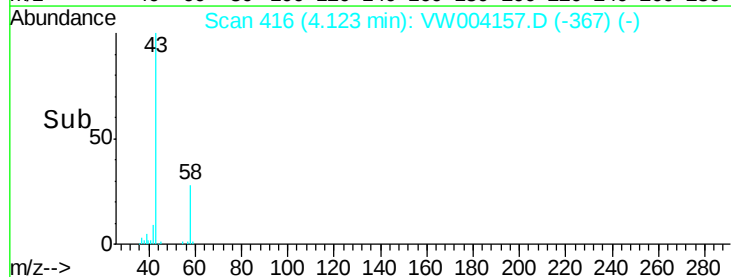
6000

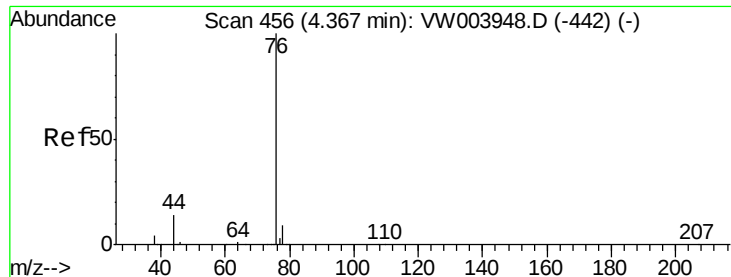
4000

2000

0

Time-->





#17

Carbon Disulfide

Concen: 4.057 ug/l

RT: 4.37 min Scan# 456

Delta R.T. 0.00 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

Instrument :

MSVOA_W

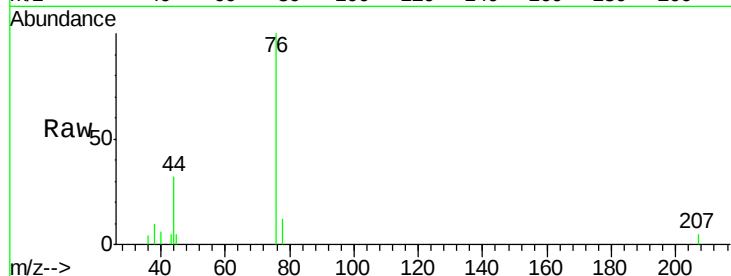
ClientSampled :

Tot Ion: 76 Resp: 7632

Ion Ratio Lower Upper

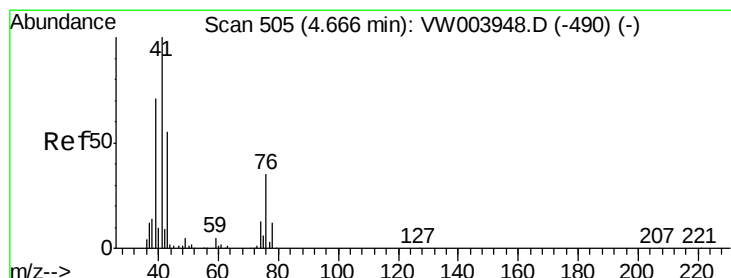
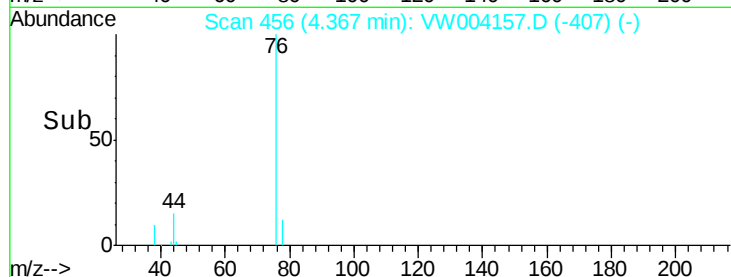
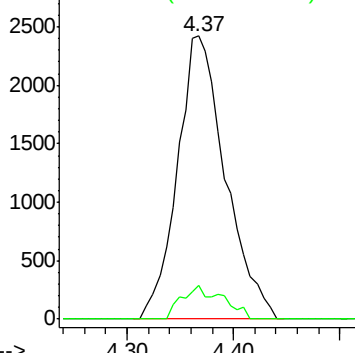
76 100

78 11.8 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 13.525 ug/l

RT: 4.67 min Scan# 506

Delta R.T. 0.01 min

Lab File: VW004157.D

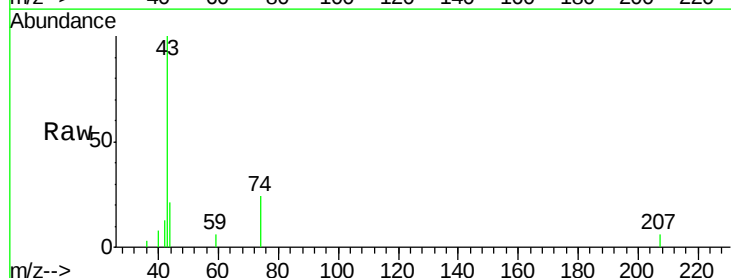
Acq: 24 Jul 2018 01:35

Tgt Ion: 43 Resp: 5408

Ion Ratio Lower Upper

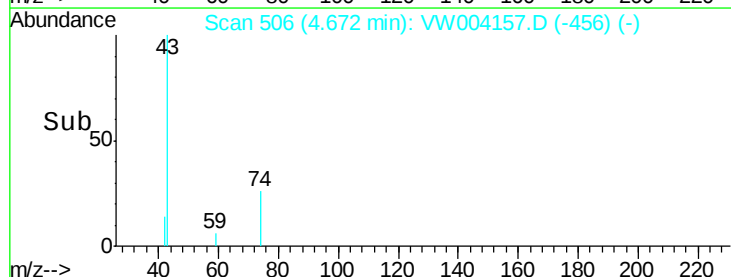
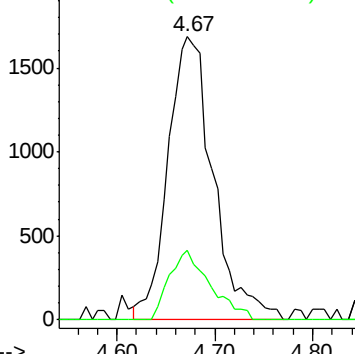
43 100

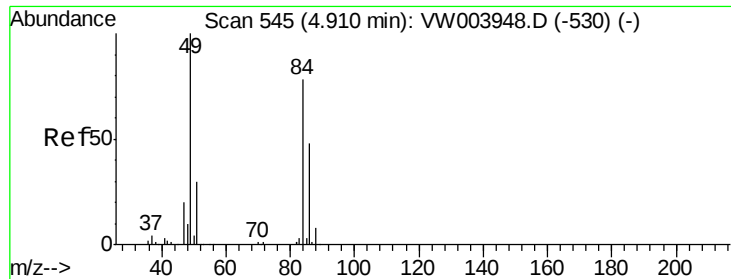
74 22.3 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

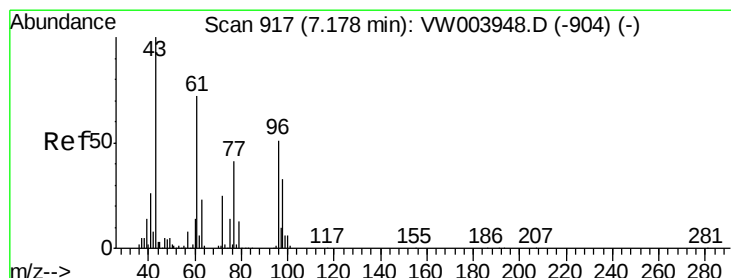
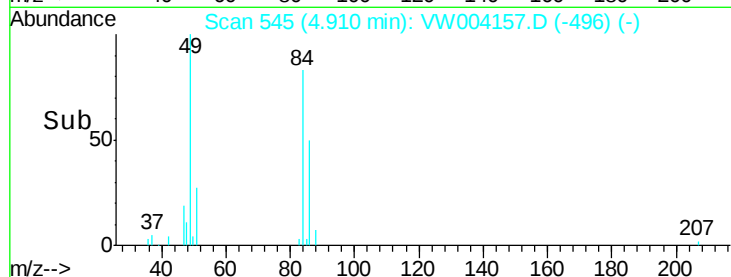
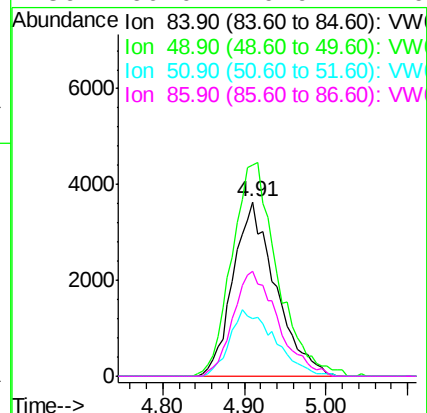
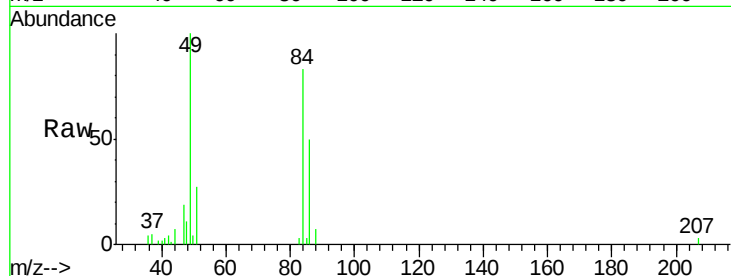




#20
Methylene Chloride
Concen: 11.901 ug/l
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW004157.D
Acq: 24 Jul 2018 01:35

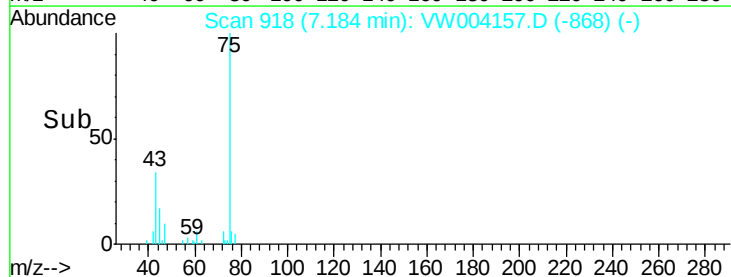
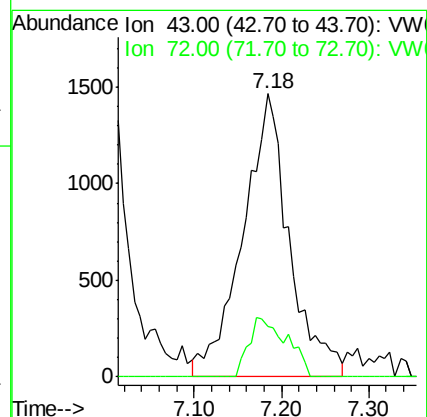
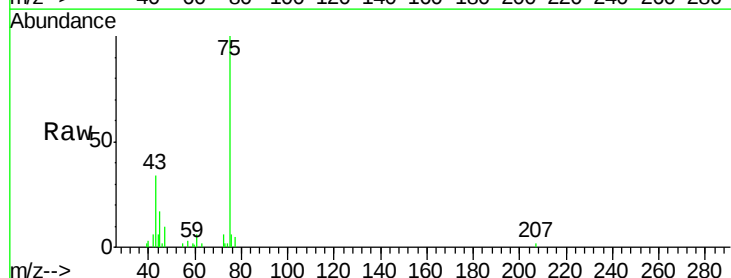
Instrument :
MSVOA_W
ClientSampled :

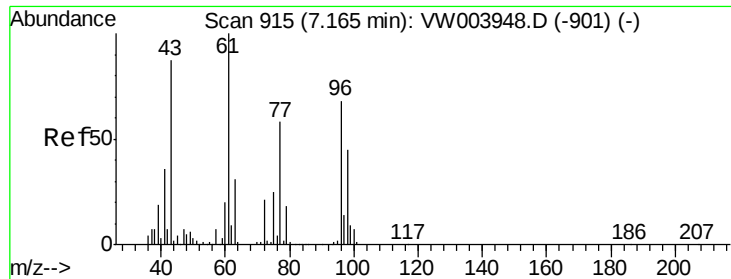
Tot Ion:	84	Resp:	13157
Ion	Ratio	Lower	Upper
84	100		
49	121.1	102.9	154.3
51	32.9	30.9	46.3
86	60.0	49.9	74.9



#25
2-Butanone
Concen: 24.210 ug/l
RT: 7.18 min Scan# 918
Delta R.T. 0.01 min
Lab File: VW004157.D
Acq: 24 Jul 2018 01:35

Tgt Ion:	43	Resp:	5427
Ion	Ratio	Lower	Upper
43	100		
72	18.6	19.8	29.6#

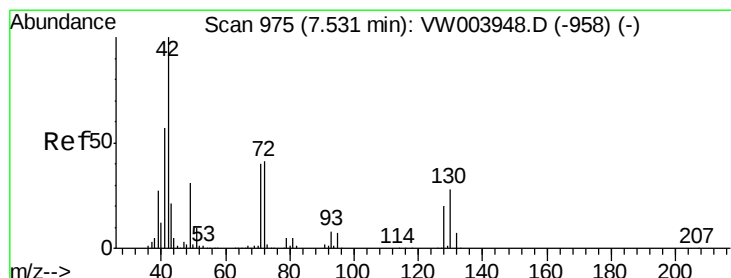
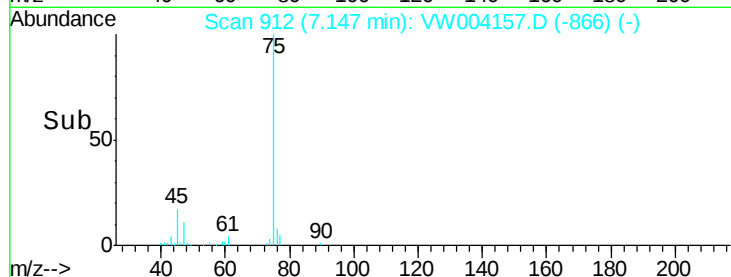
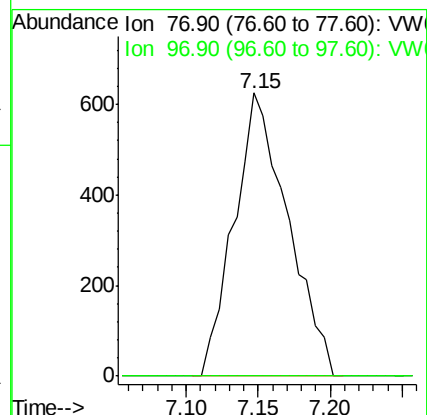
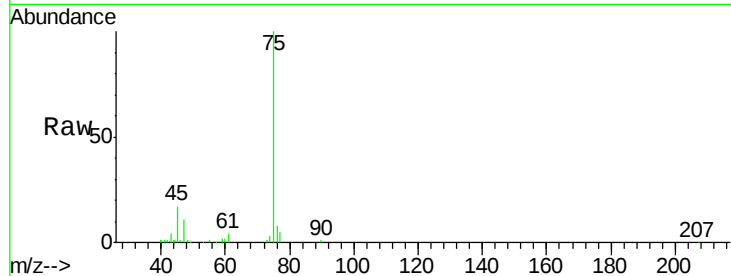




#26
 2,2-Dichloropropane
 Concen: 2.298 ug/l
 RT: 7.15 min Scan# 912
 Delta R.T. -0.02 min
 Lab File: VW004157.D
 Acq: 24 Jul 2018 01:35

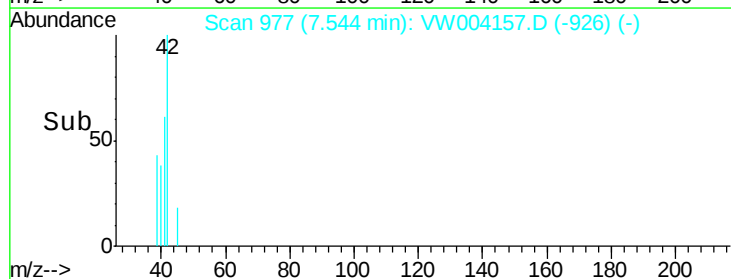
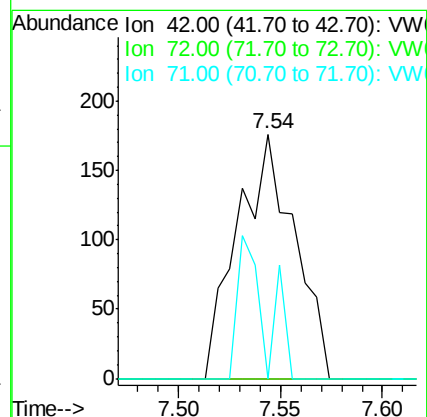
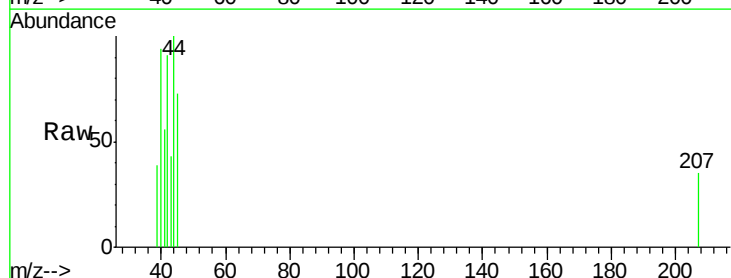
Instrument :
 MSVOA_W
 ClientSampleId :

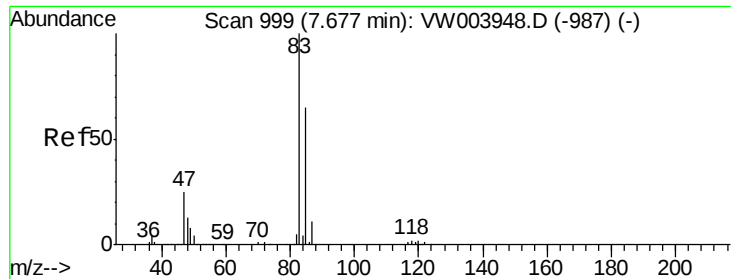
Tot Ion: 77 Resp: 1618
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.8 35.3#



#29
 Tetrahydrofuran
 Concen: 2.457 ug/l
 RT: 7.54 min Scan# 977
 Delta R.T. 0.01 min
 Lab File: VW004157.D
 Acq: 24 Jul 2018 01:35

Tgt Ion: 42 Resp: 343
 Ion Ratio Lower Upper
 42 100
 72 0.0 32.6 48.8#
 71 28.6 30.5 45.7#

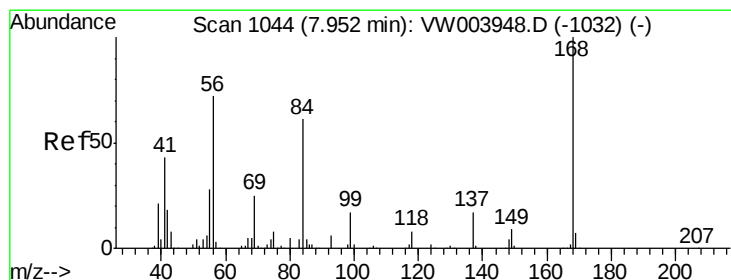
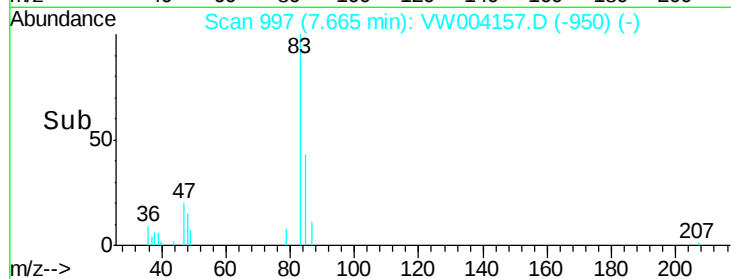
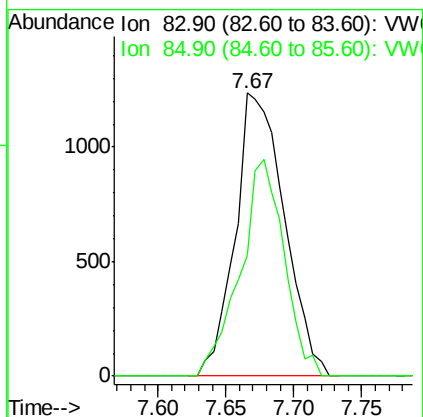
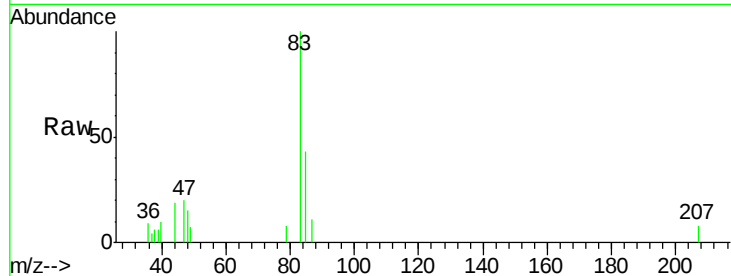




#30
Chloroform
Concen: 2.556 ug/l
RT: 7.67 min Scan# 997
Delta R.T. -0.01 min
Lab File: VW004157.D
Acq: 24 Jul 2018 01:35

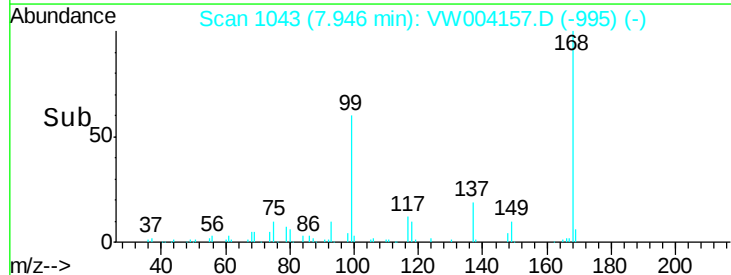
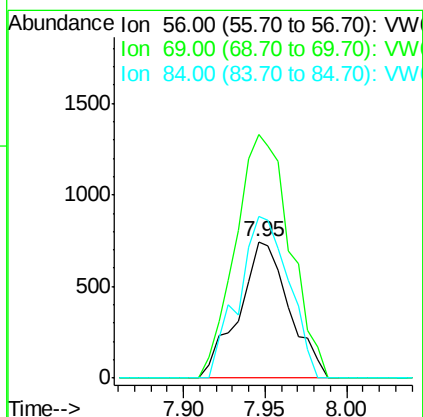
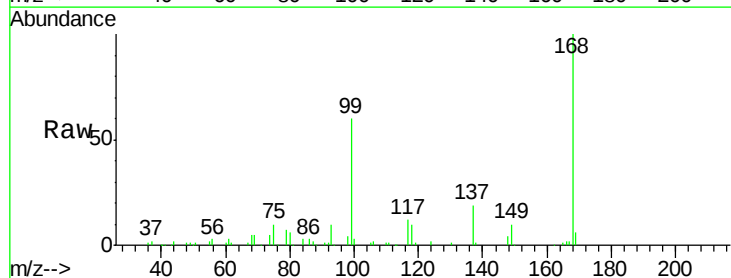
Instrument :
MSVOA_W
ClientSampled :

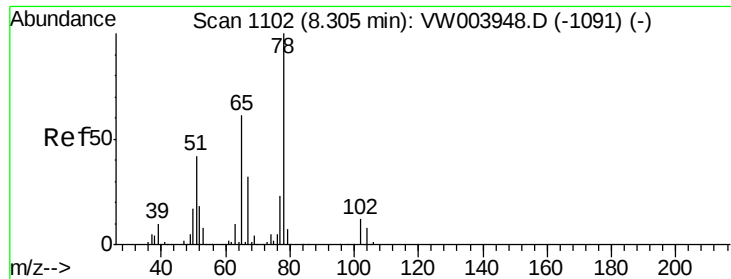
Tot Ion: 83 Resp: 3119
Ion Ratio Lower Upper
83 100
85 42.6 52.2 78.4#



#31
Cyclohexane
Concen: 1.393 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW004157.D
Acq: 24 Jul 2018 01:35

Tgt Ion: 56 Resp: 1602
Ion Ratio Lower Upper
56 100
69 178.6 27.8 41.8#
84 118.5 67.2 100.8#

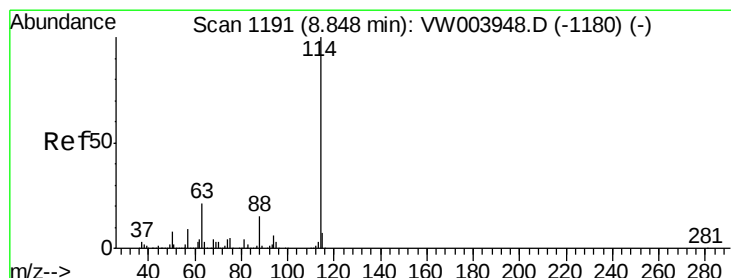
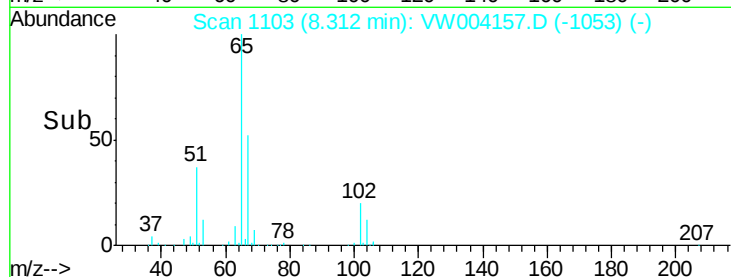
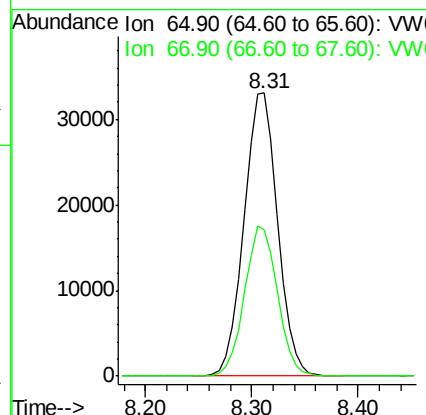
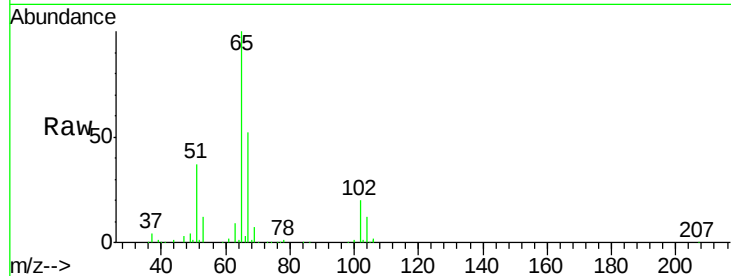




#33
 1,2-Dichloroethane-d4
 Concen: 105.995 ug/l
 RT: 8.31 min Scan# 1103
 Delta R.T. 0.01 min
 Lab File: VW004157.D
 Acq: 24 Jul 2018 01:35

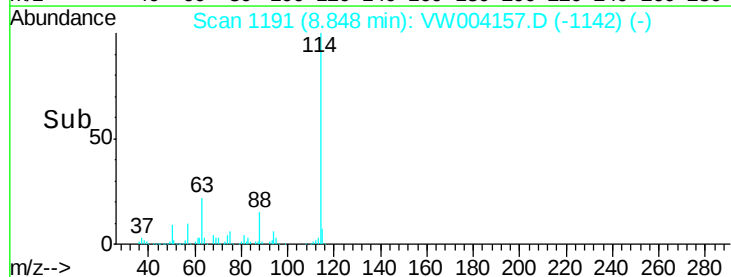
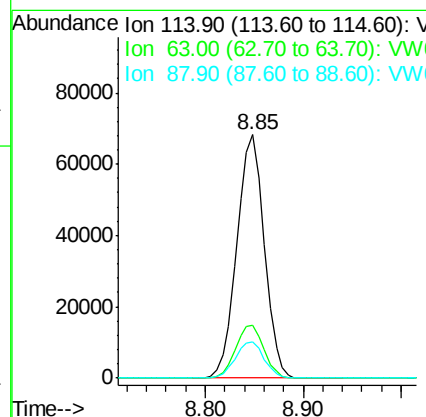
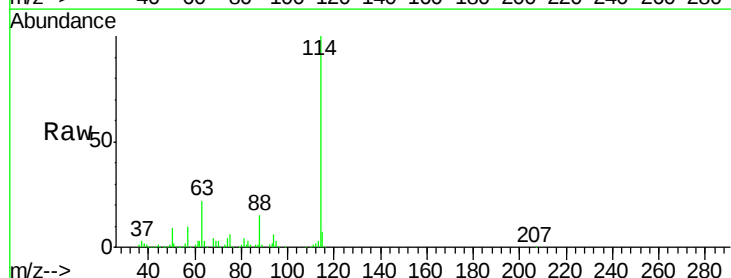
Instrument :
 MSVOA_W
 ClientSampleId :

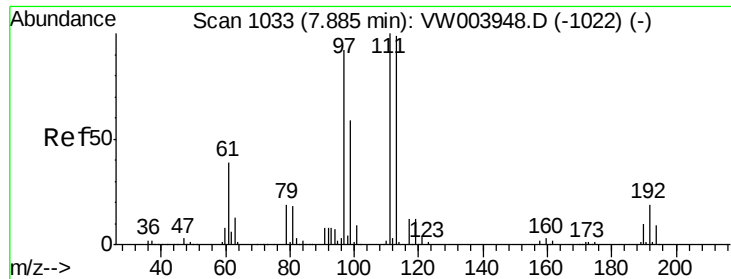
Tot Ion: 65 Resp: 73475
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW004157.D
 Acq: 24 Jul 2018 01:35

Tgt Ion: 114 Resp: 132838
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 42.8
 88 14.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 67.763 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

Instrument :
MSVOA_W
ClientSampleId :

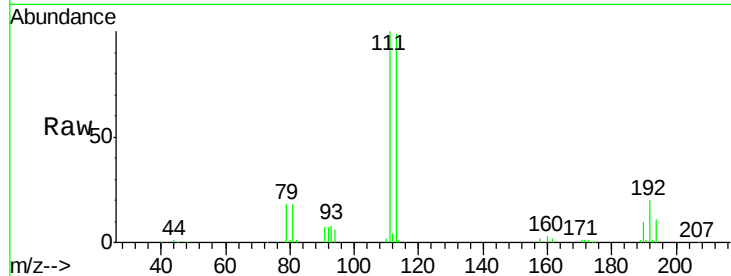
Tot Ion:113 Resp: 57756

Ion Ratio Lower Upper

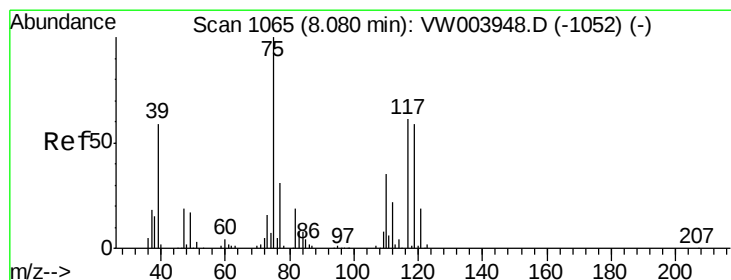
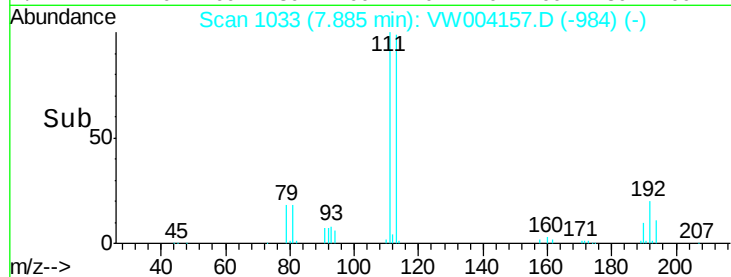
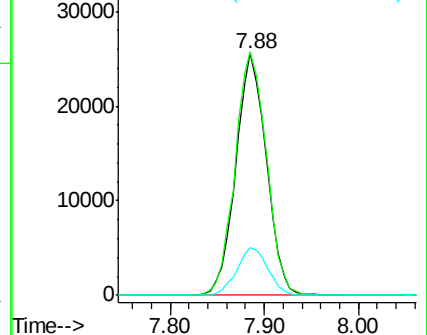
113 100

111 104.0 81.3 121.9

192 20.1 15.8 23.6



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: 4.002 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.13 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

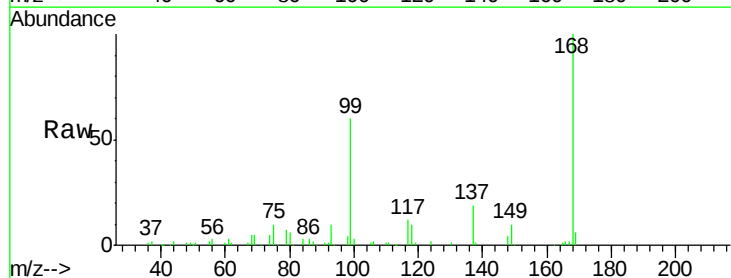
Tgt Ion: 75 Resp: 5469

Ion Ratio Lower Upper

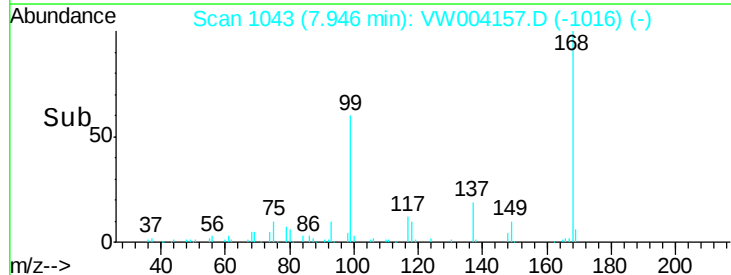
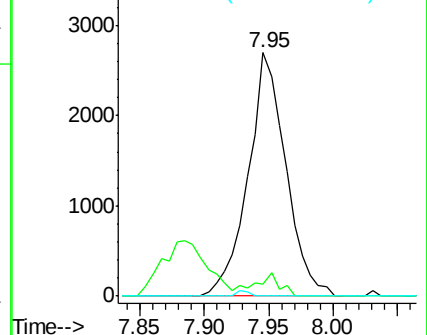
75 100

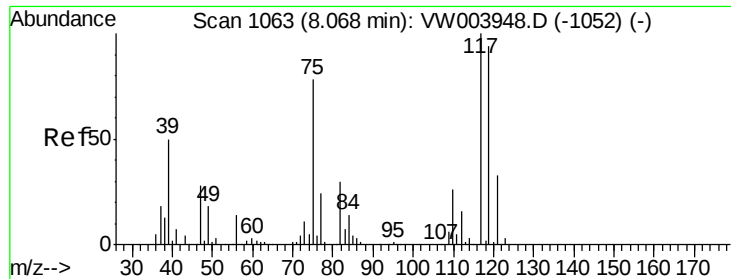
110 4.9 17.0 51.0#

77 0.0 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: 4.935 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

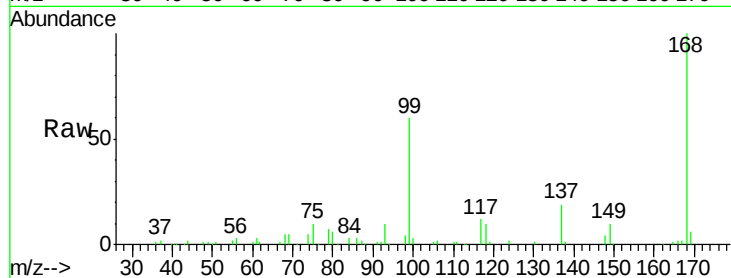
Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

Instrument :

MSVOA_W

ClientSampleId :



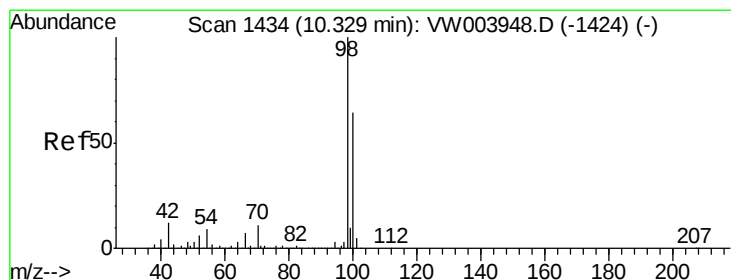
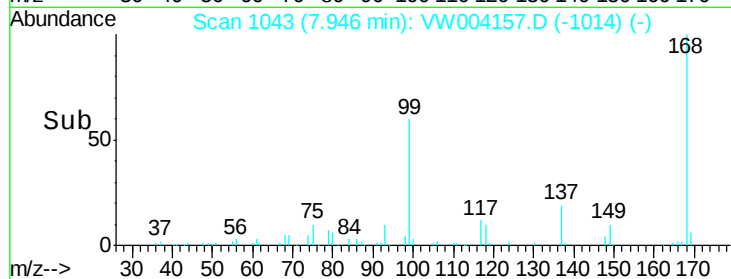
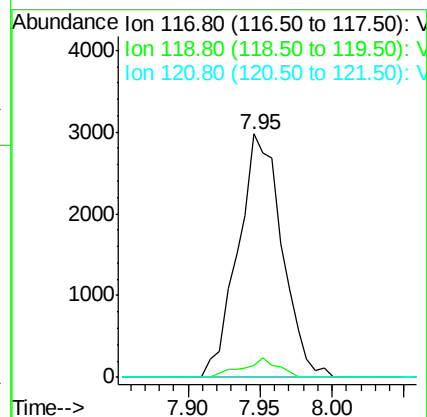
Tot Ion:117 Resp: 6302

Ion Ratio Lower Upper

117 100

119 4.8 75.3 112.9#

121 0.0 26.0 39.0#



#50

Toluene-d8

Concen: 40.149 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004157.D

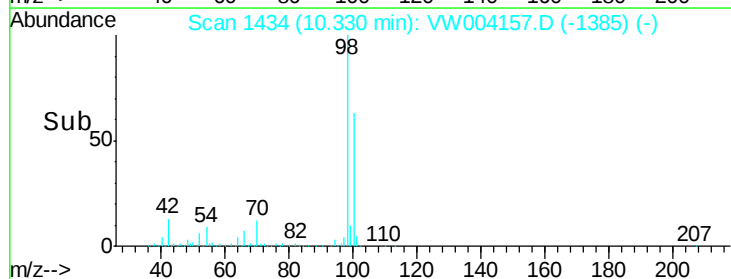
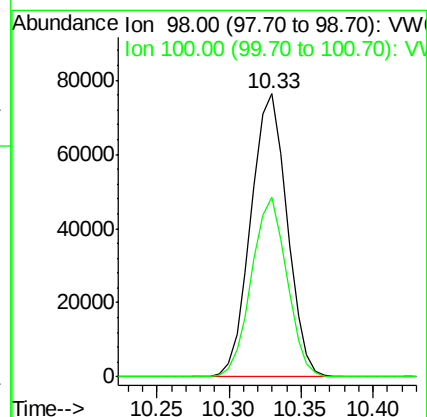
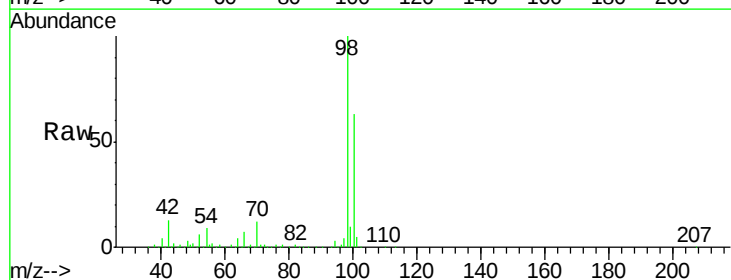
Acq: 24 Jul 2018 01:35

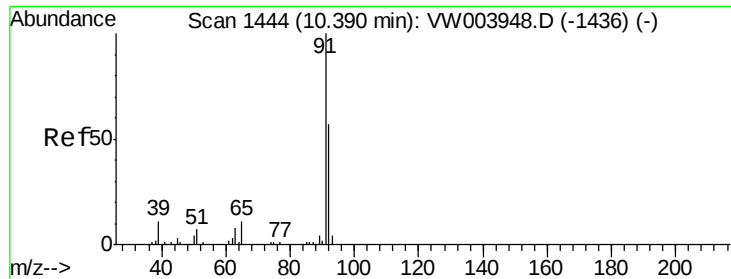
Tgt Ion: 98 Resp: 132780

Ion Ratio Lower Upper

98 100

100 61.8 51.2 76.8





#52

Toluene

Concen: 1.271 ug/l

RT: 10.38 min Scan# 1443

Delta R.T. -0.01 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

Instrument :

MSVOA_W

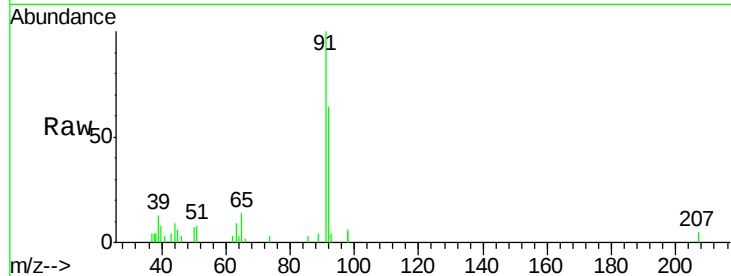
ClientSampleId :

Tot Ion: 92 Resp: 2981

Ion Ratio Lower Upper

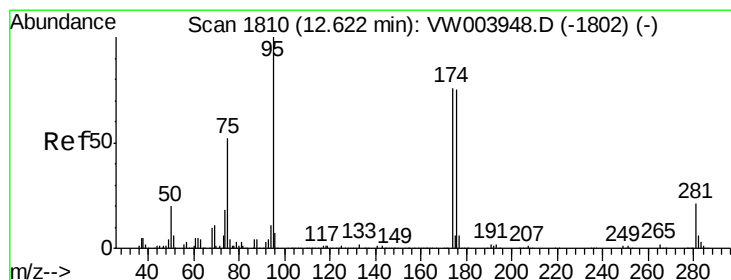
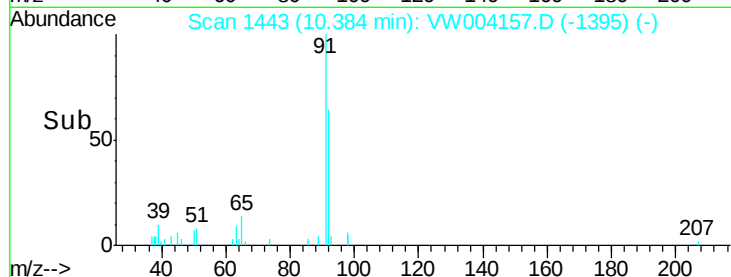
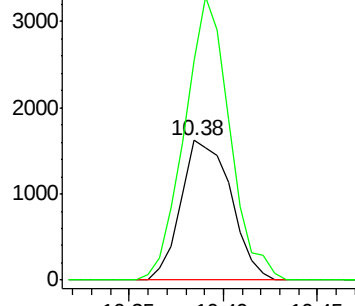
92 100

91 182.7 139.6 209.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#62

4-Bromofluorobenzene

Concen: 31.849 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

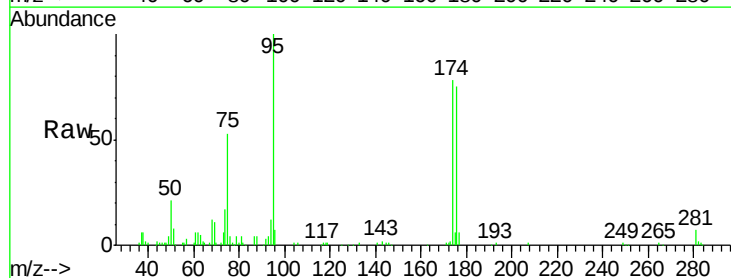
Tgt Ion: 95 Resp: 37983

Ion Ratio Lower Upper

95 100

174 81.4 0.0 160.2

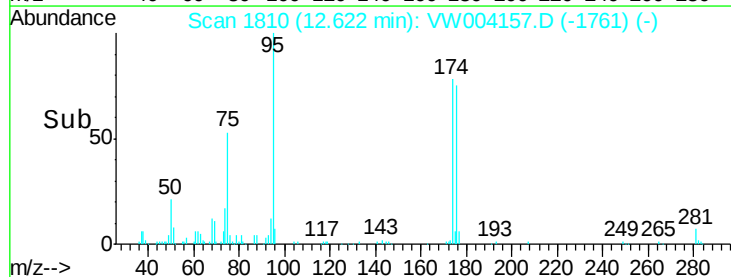
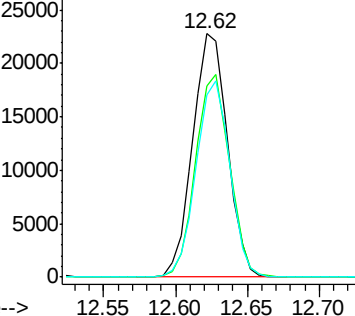
176 78.3 0.0 155.8

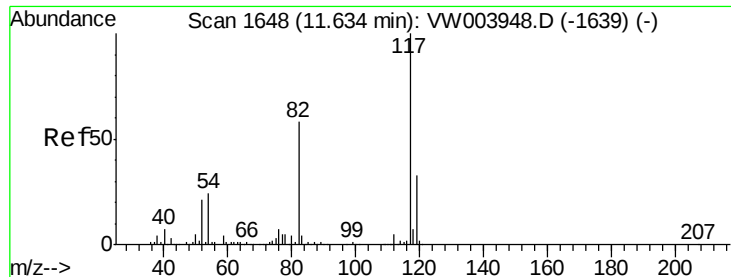


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

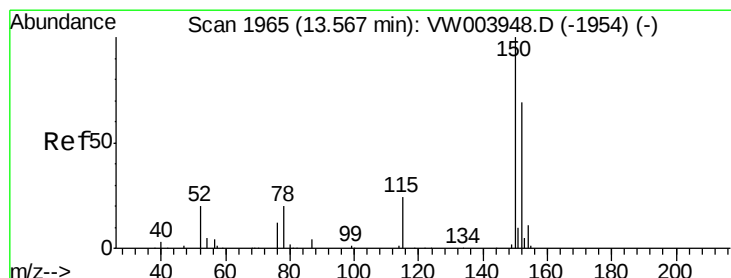
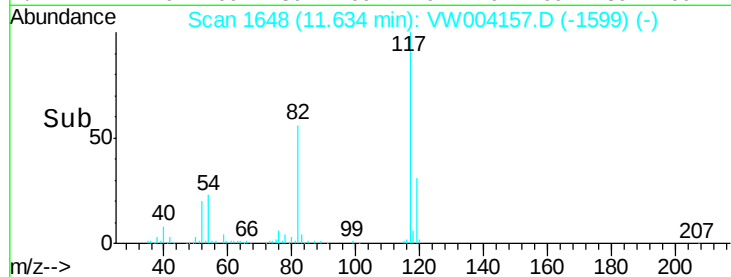
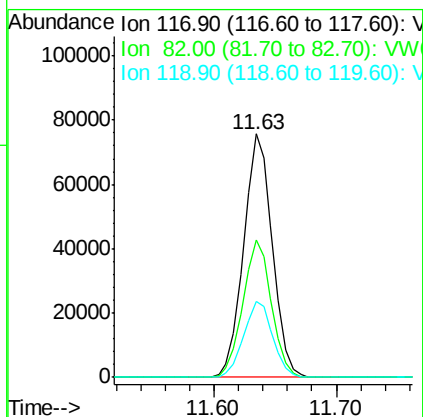
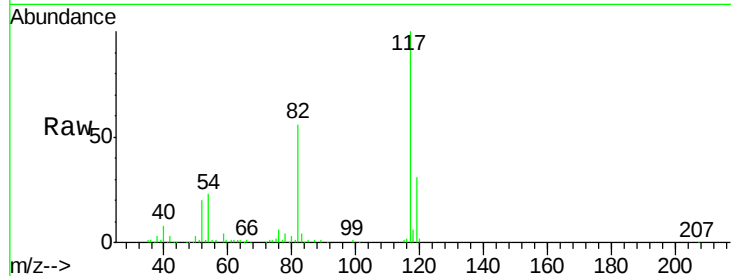




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. 0.00 min
Lab File: VW004157.D
Acq: 24 Jul 2018 01:35

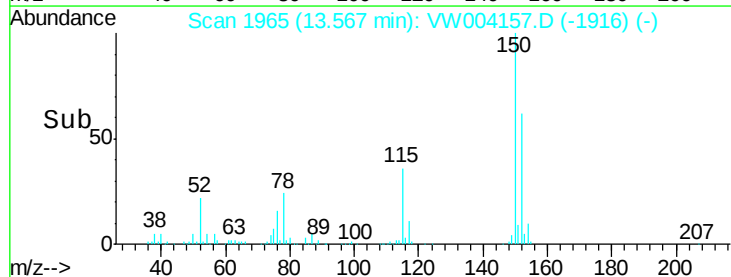
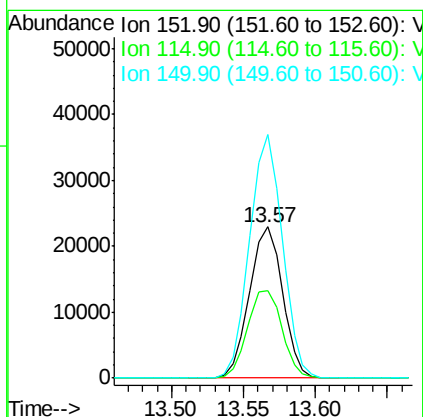
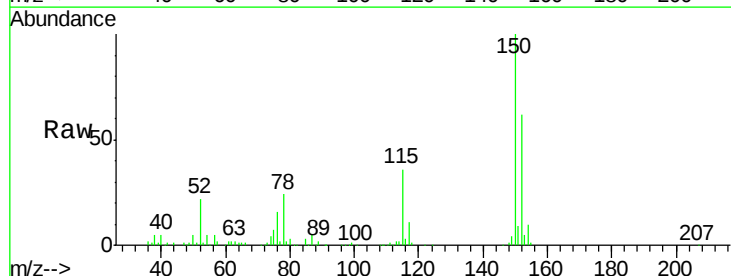
Instrument :
MSVOA_W
ClientSampleId :

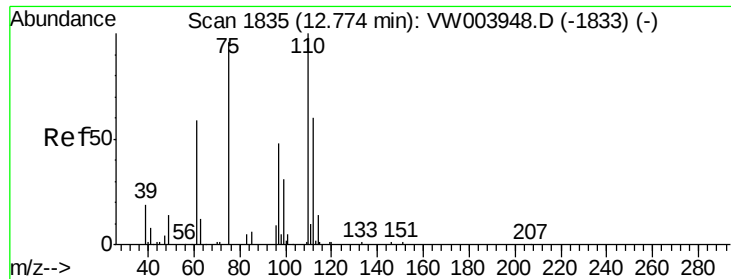
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.5	69.7
119	31.1	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW004157.D
Acq: 24 Jul 2018 01:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.4	29.2	87.6
150	159.3	0.0	345.2





#76

1,2,3-Trichloropropane

Concen: 54.086 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

Instrument :

MSVOA_W

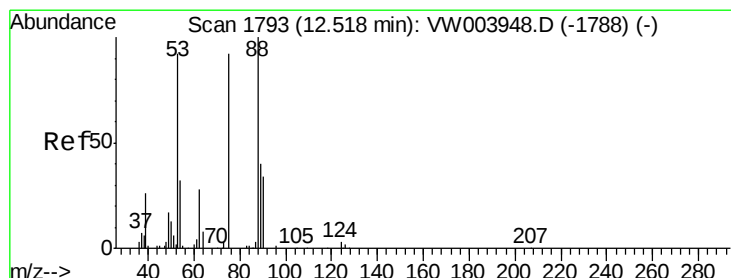
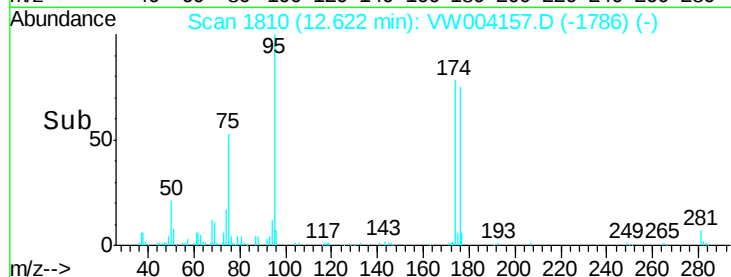
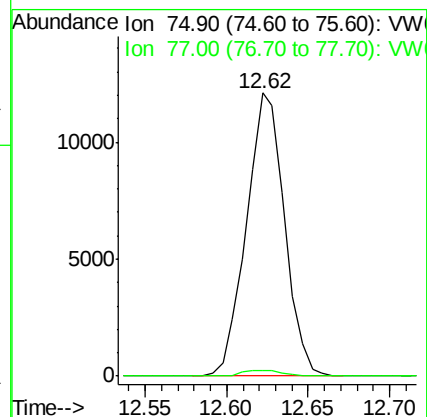
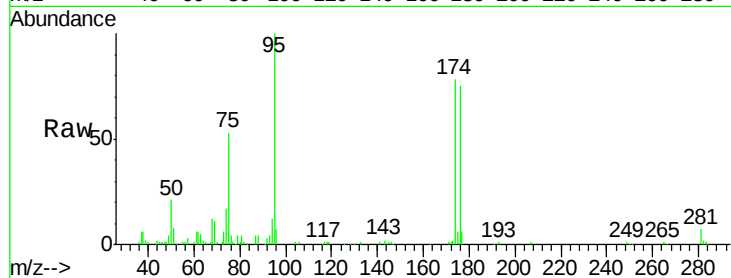
ClientSampled :

Tot Ion: 75 Resp: 19662

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 119.637 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

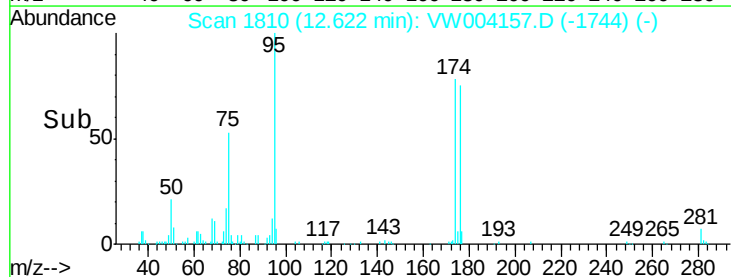
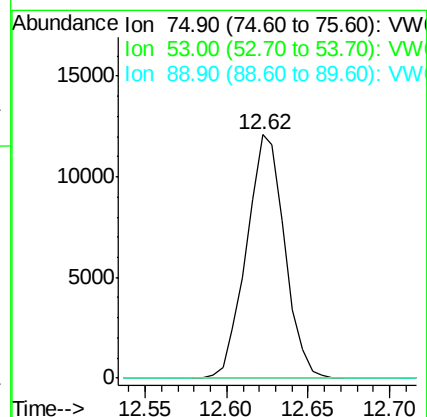
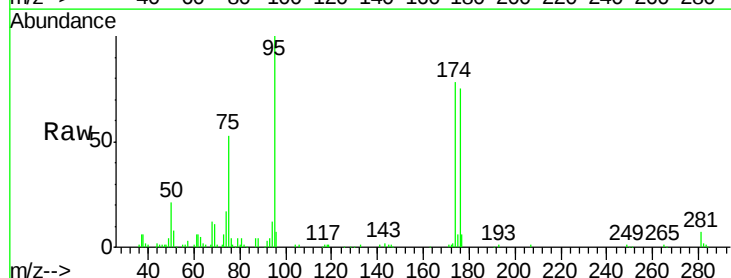
Tgt Ion: 75 Resp: 19662

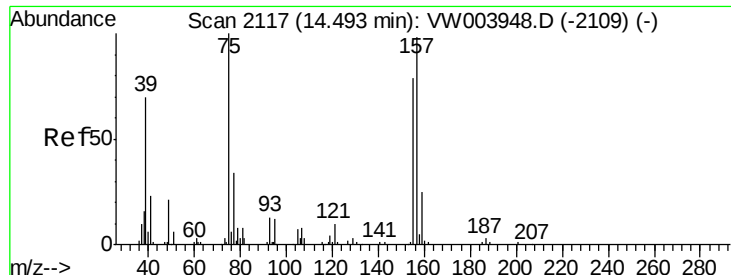
Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

89 0.0 36.6 54.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.124 ug/l

RT: 14.34 min Scan# 2092

Delta R.T. -0.15 min

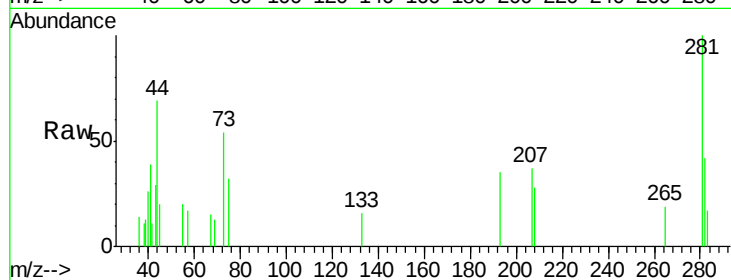
Lab File: VW004157.D

Acq: 24 Jul 2018 01:35

Instrument :

MSVOA_W

ClientSampleId :



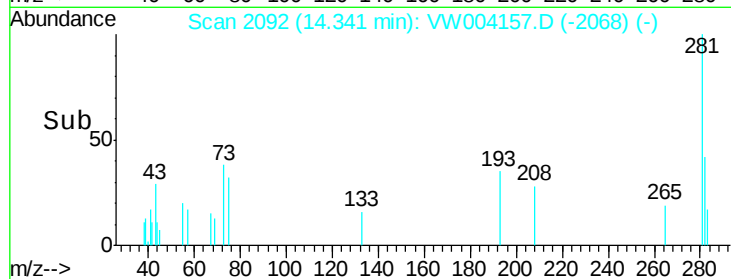
Tot Ion: 75 Resp: 189

Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

157 0.0 51.8 155.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

Time-->

14.30 14.35