

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122218\
 Data File : VW007779.D
 Acq On : 21 Dec 2018 07:48
 Operator : SY/AP
 Sample : J6389-04
 Misc : 6.43G/5ML/MSVOA W/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 21 10:07:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	38951	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	70497	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	55708	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	18101	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	24153	56.57	ug/l	0.00
Spiked Amount			Recovery	=	113.14%	
35) Dibromofluoromethane	7.88	113	20212	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
50) Toluene-d8	10.32	98	58289	35.95	ug/l	0.00
Spiked Amount			Recovery	=	71.90%	
62) 4-Bromofluorobenzene	12.62	95	19303	30.82	ug/l	0.00
Spiked Amount			Recovery	=	61.64%	

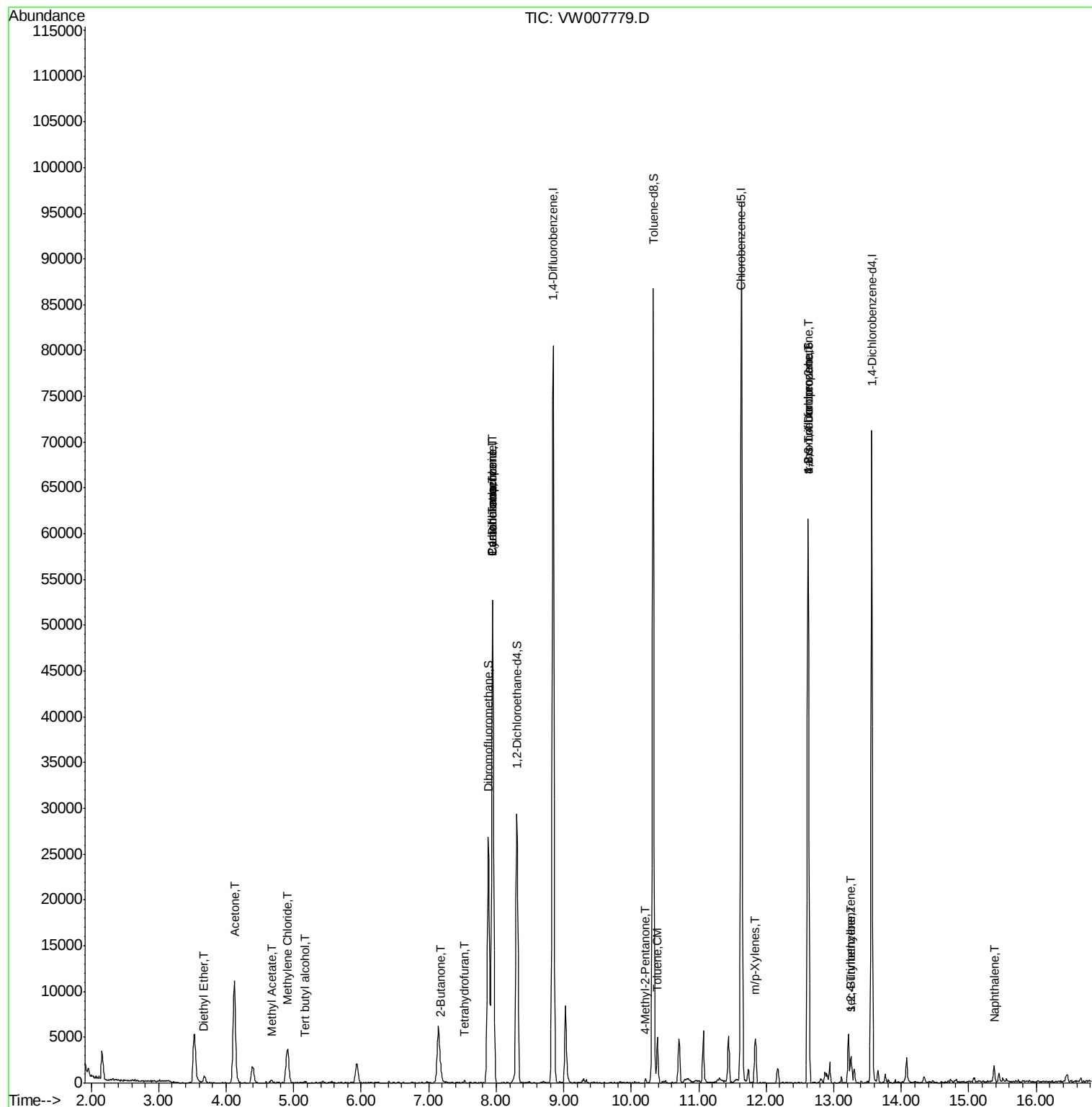
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	313	1.813	ug/l #	1
11) Tert butyl alcohol	5.16	59	287	9.966	ug/l #	73
16) Acetone	4.12	43	19069	238.527	ug/l #	89
18) Methyl Acetate	4.67	43	773	4.066	ug/l #	51
20) Methylene Chloride	4.91	84	3257	2.106	ug/l	97
25) 2-Butanone	7.18	43	1547	16.521	ug/l #	87
29) Tetrahydrofuran	7.54	42	184	3.294	ug/l #	27
31) Cyclohexane	7.95	56	841	1.323	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	2996	4.403	ug/l #	49
38) Carbon Tetrachloride	7.95	117	4142	5.169	ug/l #	15
51) 4-Methyl-2-Pentanone	10.21	43	421	1.894	ug/l #	76
52) Toluene	10.39	92	2269	1.863	ug/l	97
68) m/p-Xylenes	11.84	106	1652	2.058	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	9810	70.120	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	9810	147.186	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.26	105	2025	1.700	ug/l	97
85) sec-Butylbenzene	13.26	105	2025	1.419	ug/l #	56
95) Naphthalene	15.38	128	2194	3.067	ug/l #	89

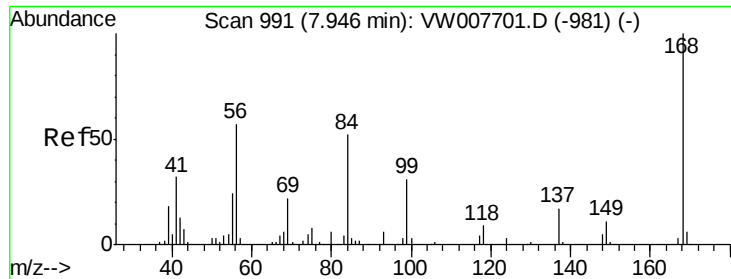
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 20 06:30:23 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

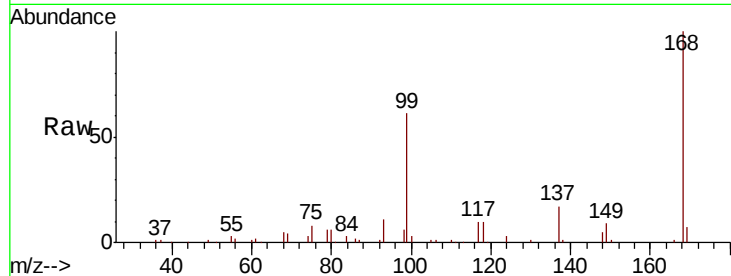
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 38951

Ion Ratio Lower Upper

168 100

99 61.4 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

20000

15000

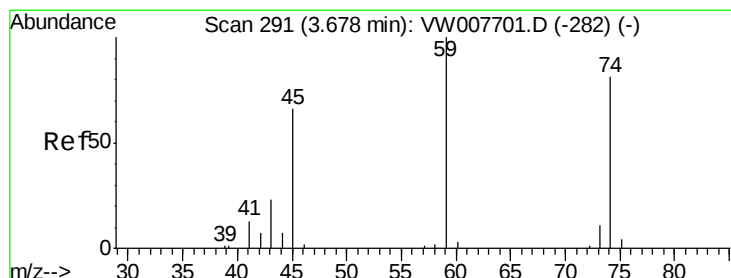
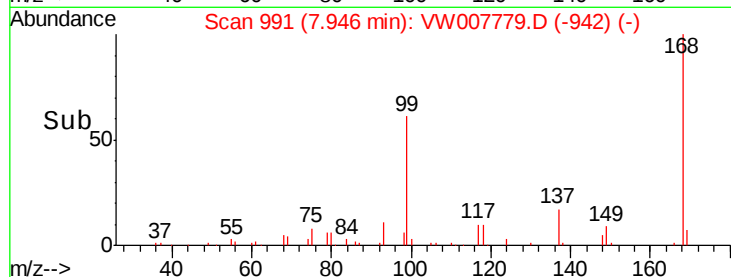
10000

5000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#8

Diethyl Ether

Concen: 1.813 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW007779.D

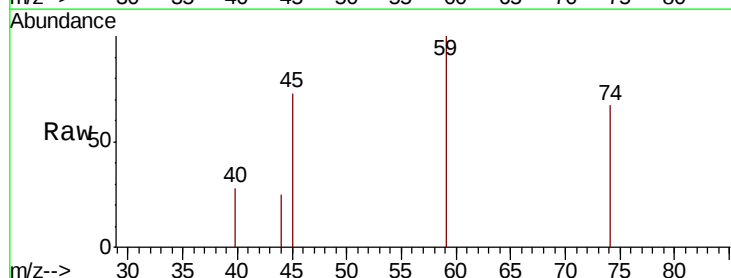
Acq: 21 Dec 2018 07:48

Tgt Ion: 74 Resp: 313

Ion Ratio Lower Upper

74 100

45 228.1 39.4 118.1#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

300

250

200

150

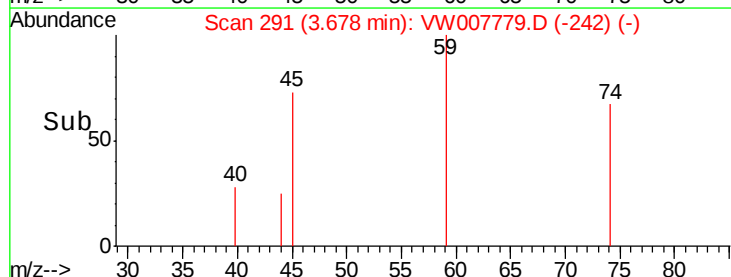
100

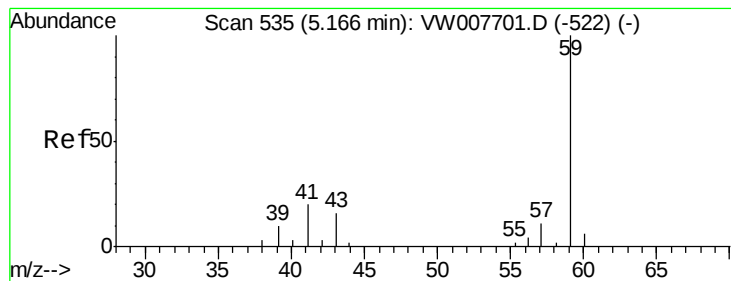
50

0

3.65 3.70

Time-->



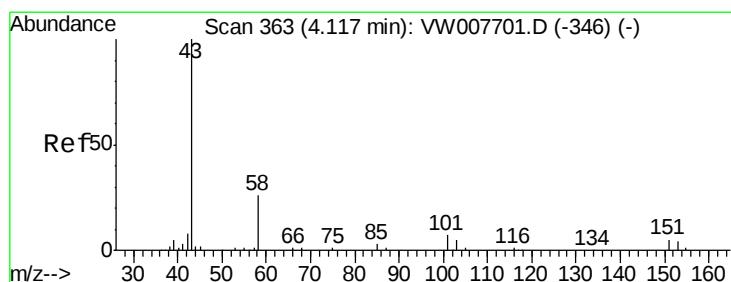
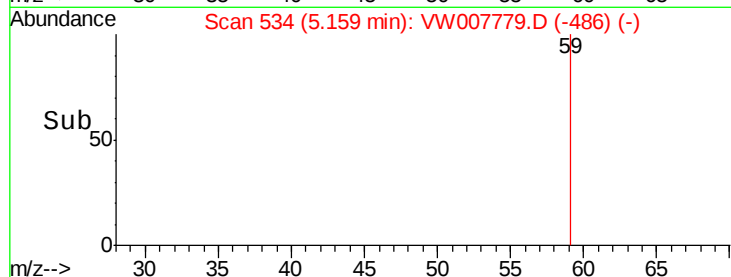
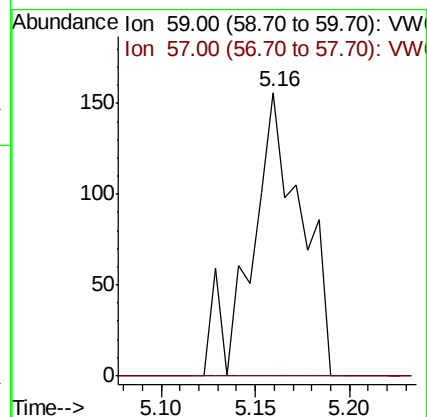
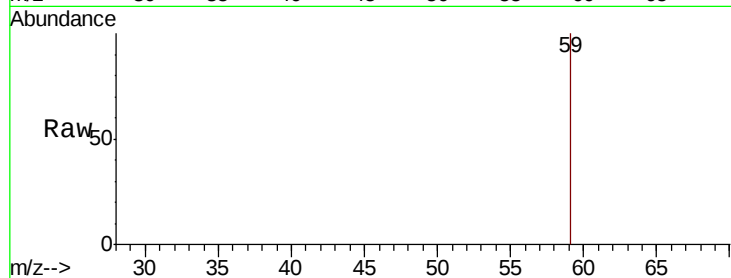


#11

Tert butyl alcohol
 Concen: 9.966 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VW007779.D
 Acq: 21 Dec 2018 07:48

Instrument :
 MSVOA_W
 ClientSampled :

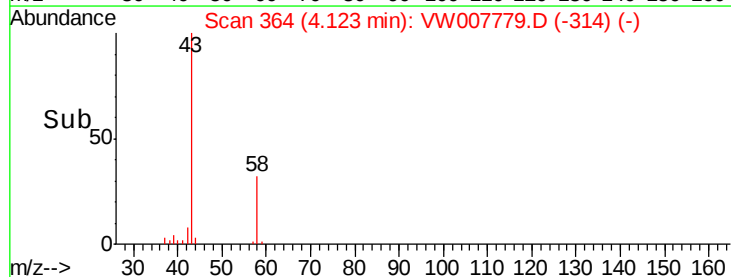
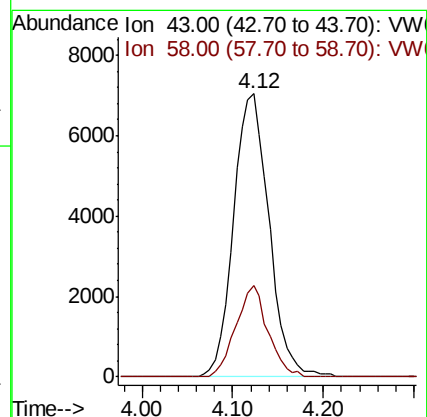
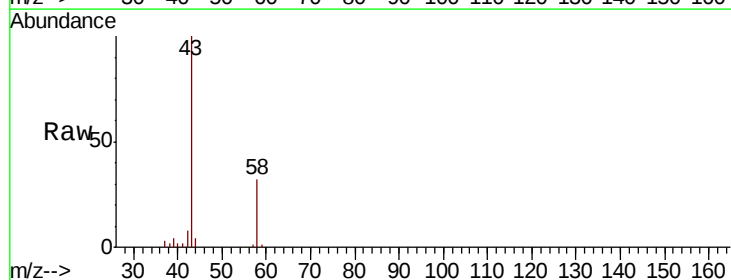
Tot Ion: 59 Resp: 287
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

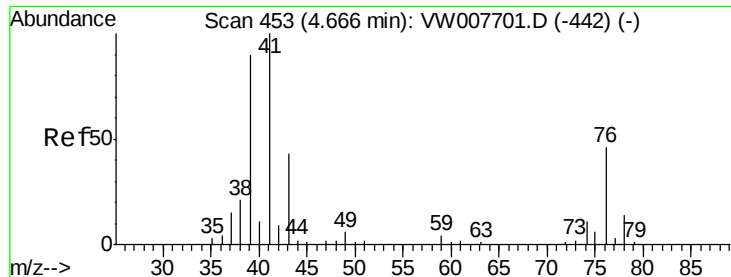


#16

Acetone
 Concen: 238.527 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VW007779.D
 Acq: 21 Dec 2018 07:48

Tgt Ion: 43 Resp: 19069
 Ion Ratio Lower Upper
 43 100
 58 32.3 21.2 31.8#

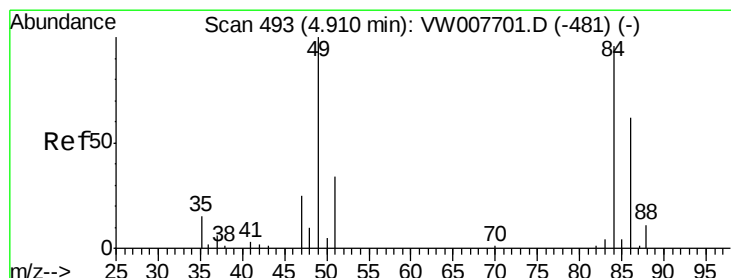
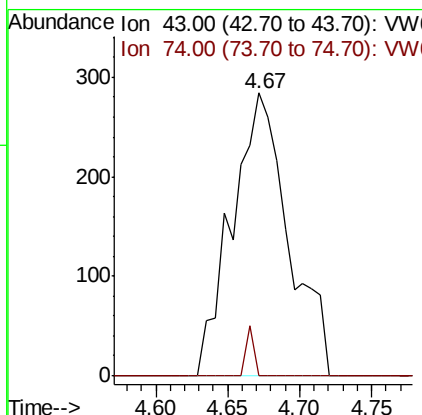
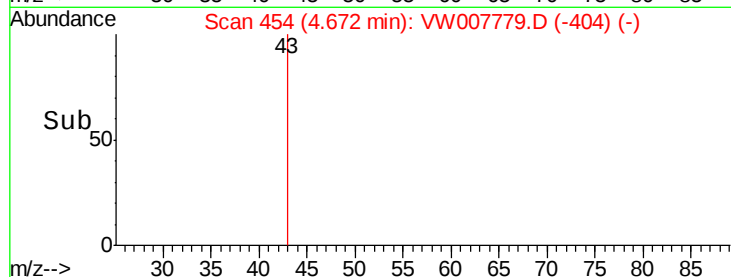
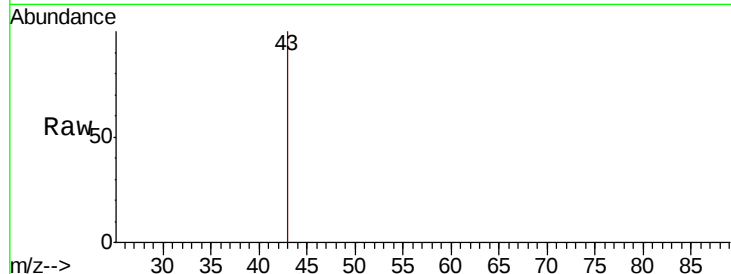




#18
Methyl Acetate
Concen: 4.066 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW007779.D
Acq: 21 Dec 2018 07:48

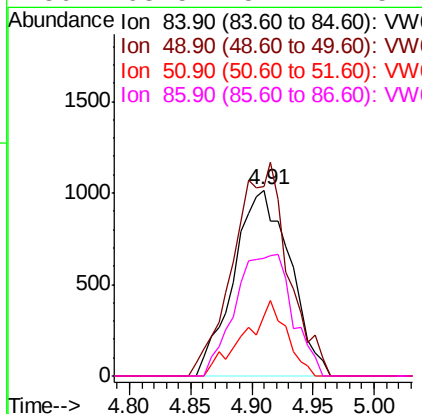
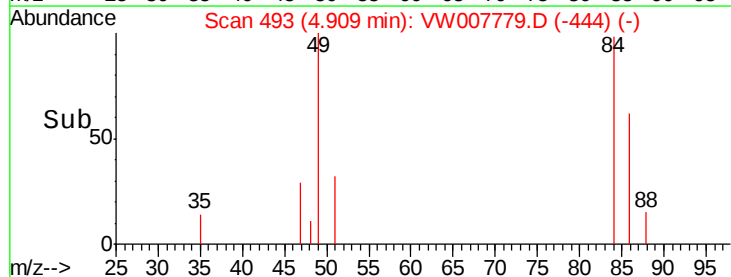
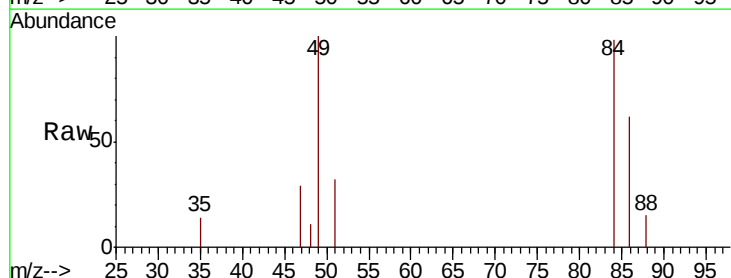
Instrument :
MSVOA_W
ClientSampleId :

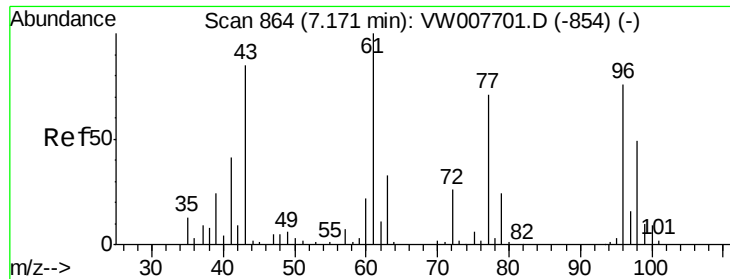
Tot Ion: 43 Resp: 773
Ion Ratio Lower Upper
43 100
74 2.3 22.7 34.1#



#20
Methylene Chloride
Concen: 2.106 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW007779.D
Acq: 21 Dec 2018 07:48

Tgt Ion: 84 Resp: 3257
Ion Ratio Lower Upper
84 100
49 102.2 83.7 125.5
51 32.4 28.2 42.2
86 63.5 52.2 78.2

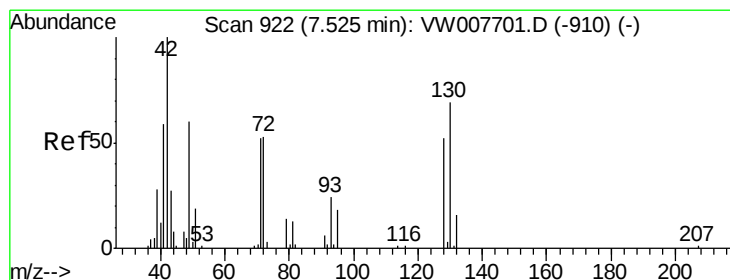
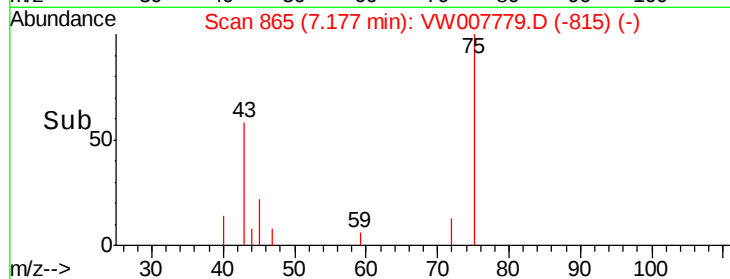
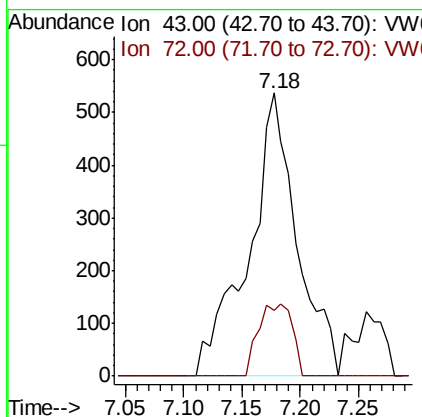
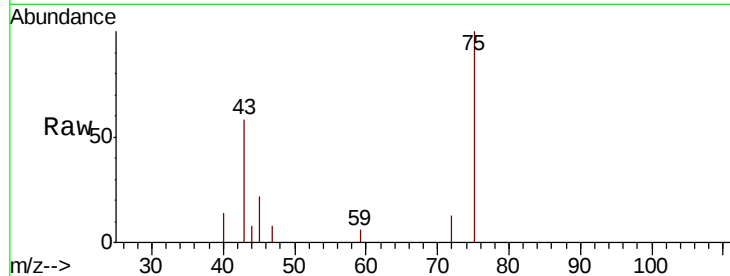




#25
2-Butanone
Concen: 16.521 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW007779.D
Acq: 21 Dec 2018 07:48

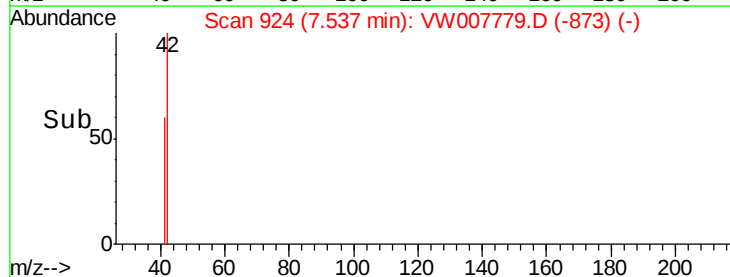
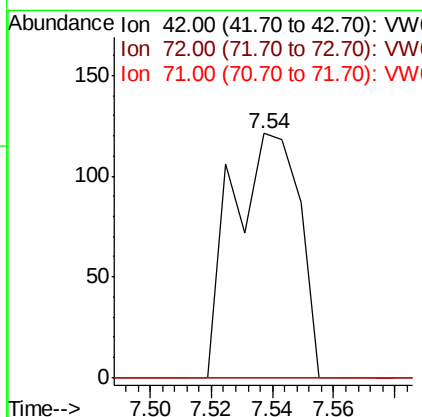
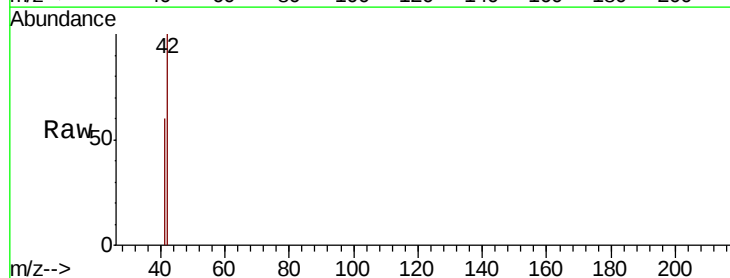
Instrument :
MSVOA_W
ClientSampled :

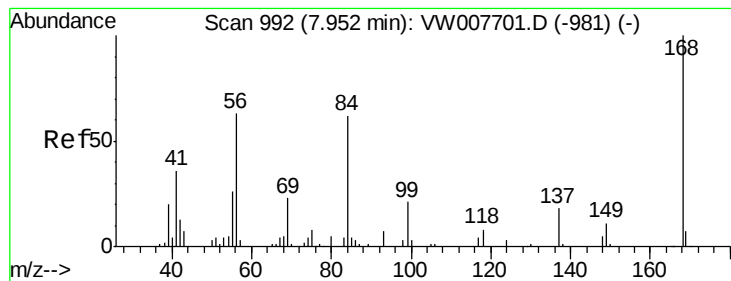
Tot Ion: 43 Resp: 1547
Ion Ratio Lower Upper
43 100
72 23.3 24.5 36.7#



#29
Tetrahydrofuran
Concen: 3.294 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW007779.D
Acq: 21 Dec 2018 07:48

Tgt Ion: 42 Resp: 184
Ion Ratio Lower Upper
42 100
72 0.0 41.7 62.5#
71 0.0 39.0 58.6#





#31

Cyclohexane

Concen: 1.323 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

Instrument :
MSVOA_W
ClientSampled :

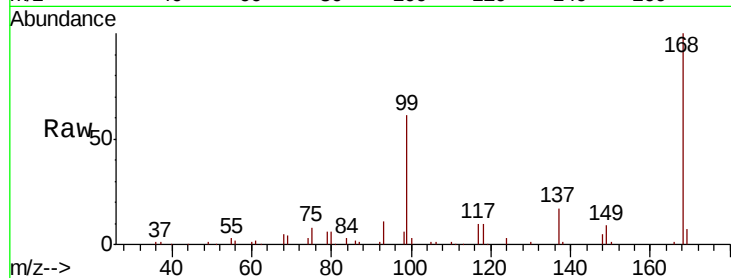
Tot Ion: 56 Resp: 841

Ion Ratio Lower Upper

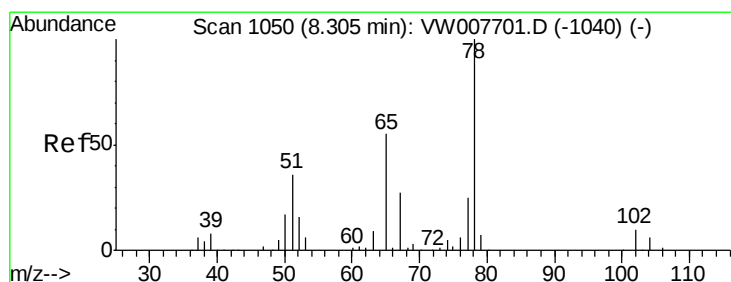
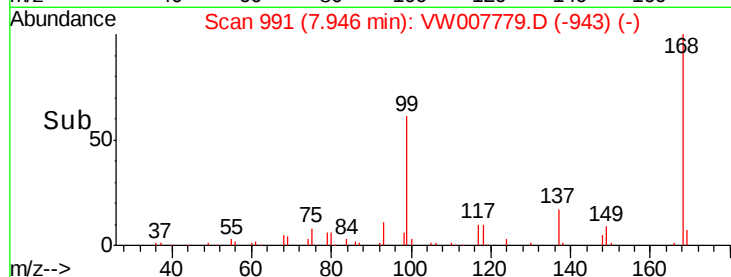
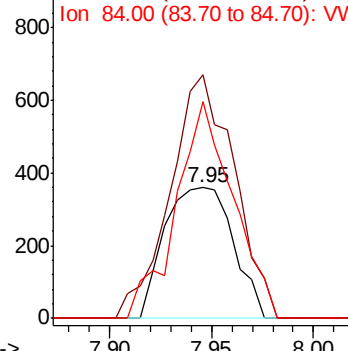
56 100

69 186.6 29.7 44.5#

84 166.3 78.9 118.3#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 56.575 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW007779.D

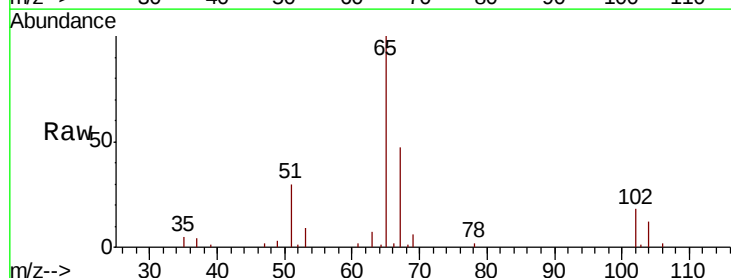
Acq: 21 Dec 2018 07:48

Tgt Ion: 65 Resp: 24153

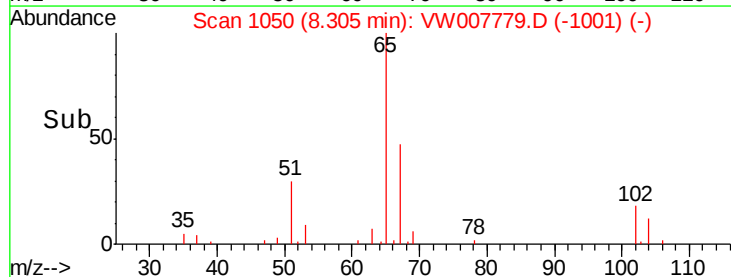
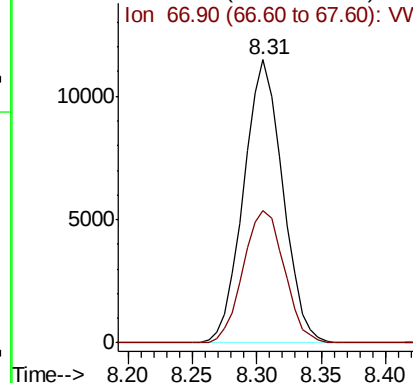
Ion Ratio Lower Upper

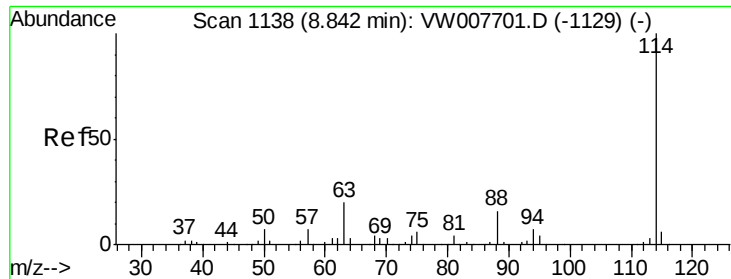
65 100

67 49.0 0.0 100.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

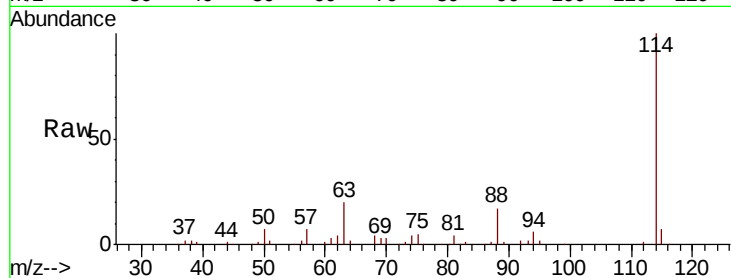




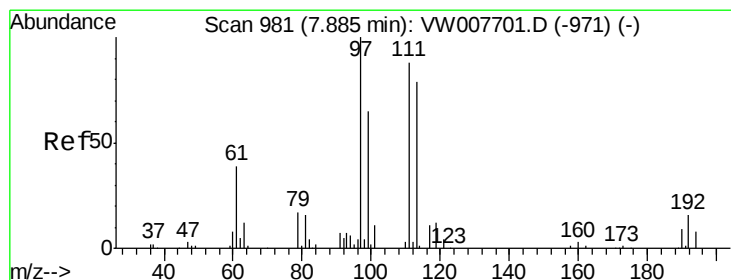
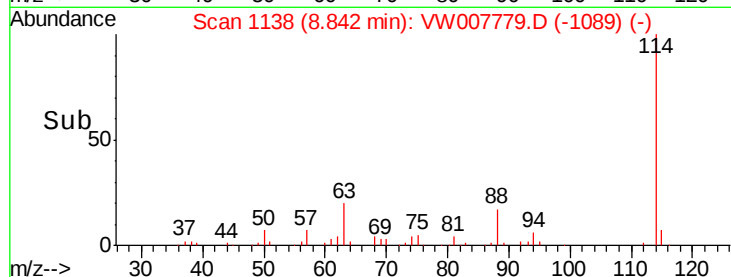
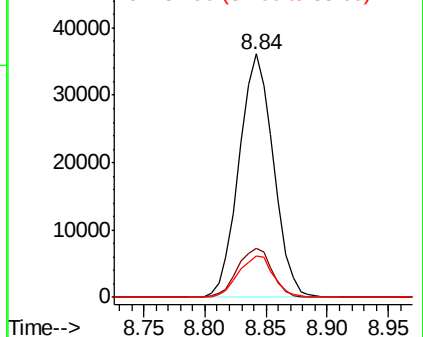
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007779.D
 Acq: 21 Dec 2018 07:48

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:114 Resp: 70497
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 17.0 0.0 32.6

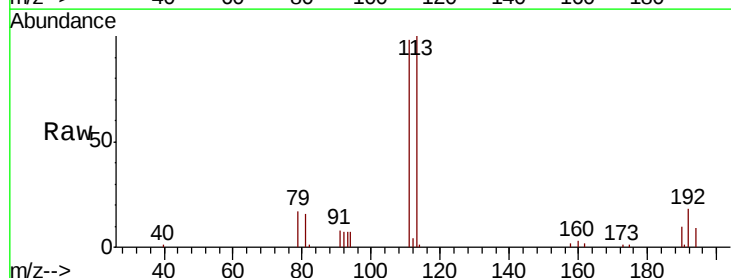


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

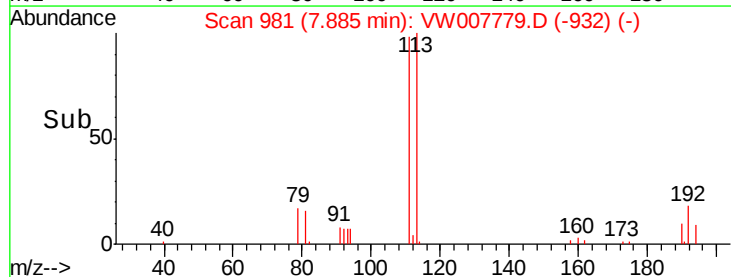
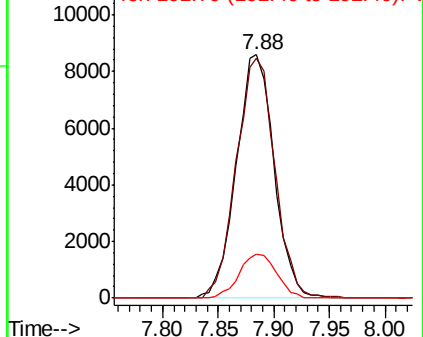


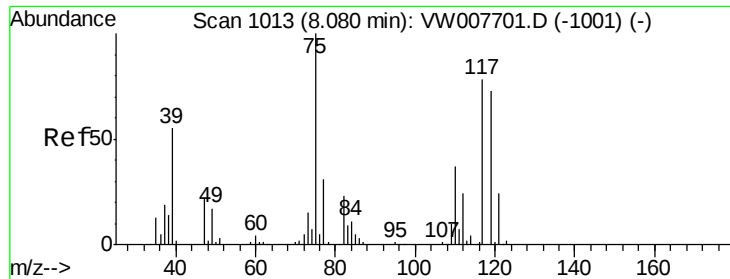
#35
 Dibromofluoromethane
 Concen: 46.997 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW007779.D
 Acq: 21 Dec 2018 07:48

Tgt Ion:113 Resp: 20212
 Ion Ratio Lower Upper
 113 100
 111 100.6 82.6 124.0
 192 18.0 15.5 23.3



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: 4.403 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

Instrument :

MSVOA_W

ClientSampleId :

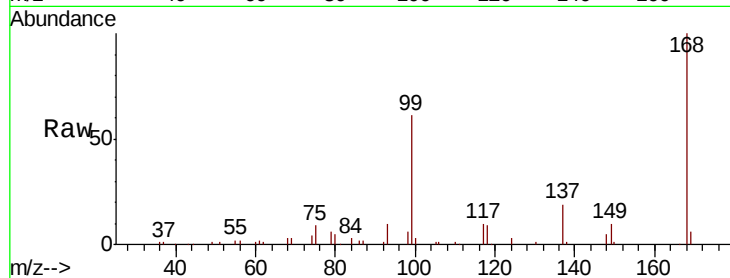
Tot Ion: 75 Resp: 2996

Ion Ratio Lower Upper

75 100

110 9.8 18.6 55.8#

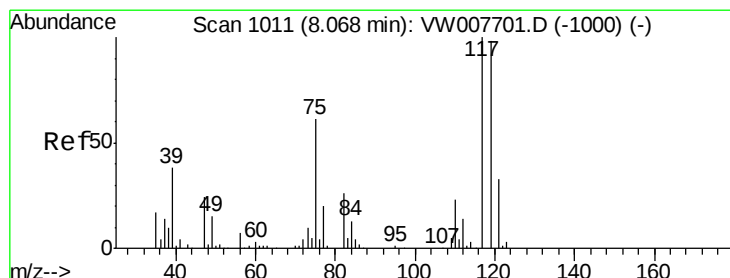
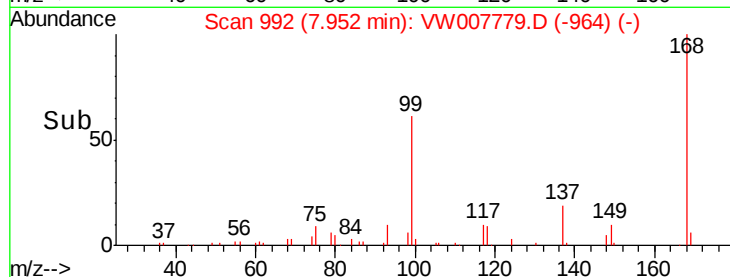
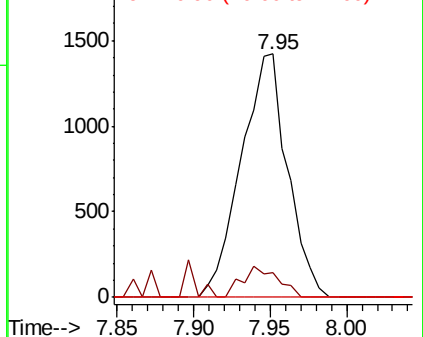
77 0.0 25.0 37.4#



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



#38

Carbon Tetrachloride

Concen: 5.169 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

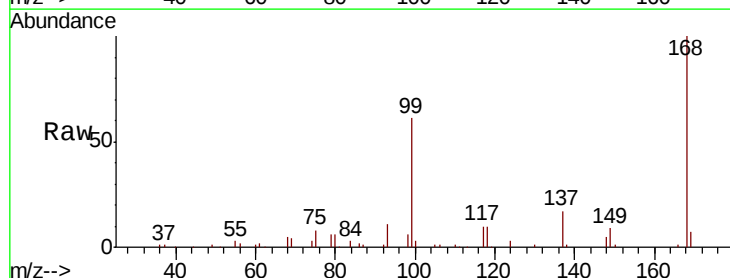
Tgt Ion: 117 Resp: 4142

Ion Ratio Lower Upper

117 100

119 4.4 78.2 117.2#

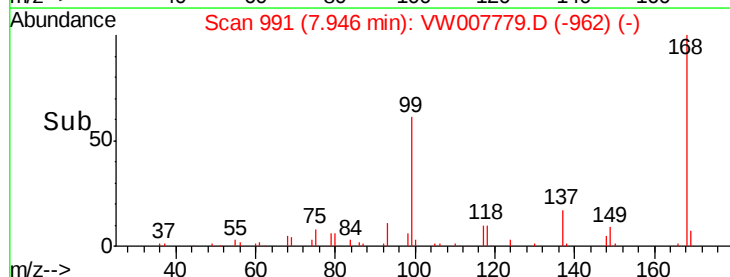
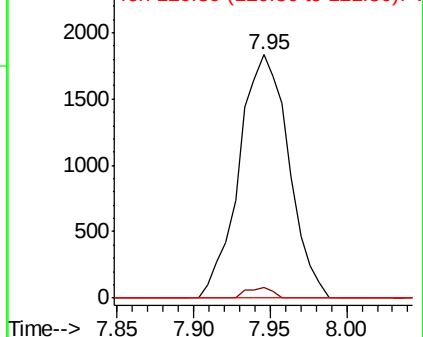
121 0.0 26.1 39.1#

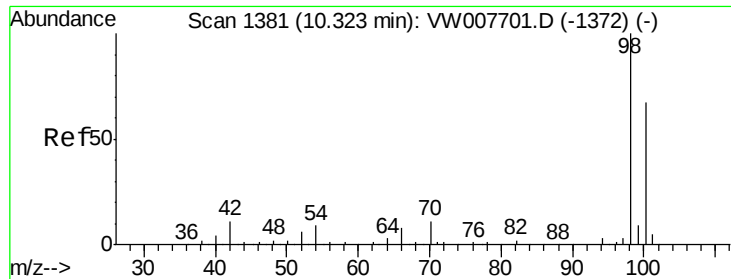


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 35.952 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

Instrument :

MSVOA_W

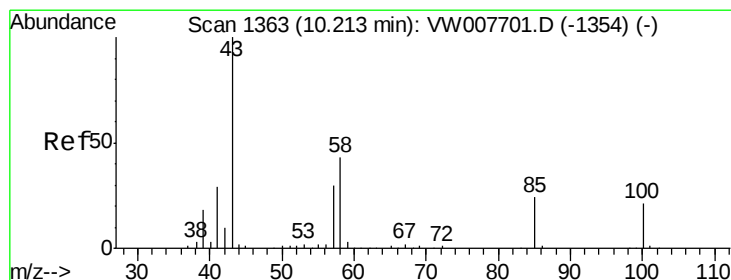
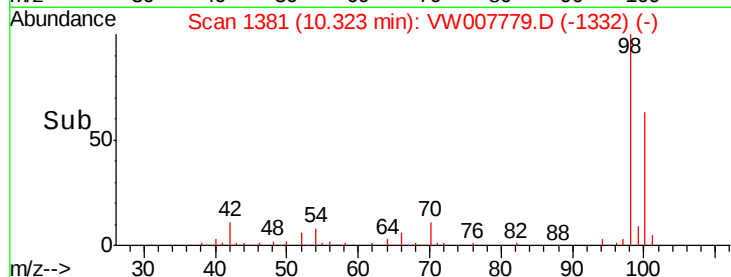
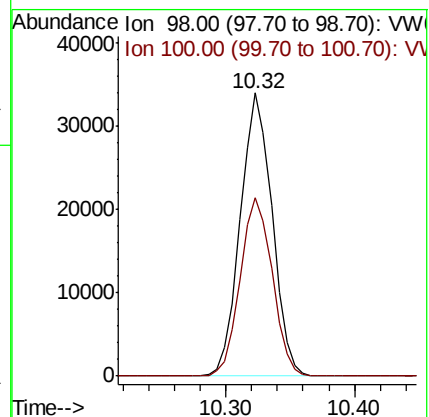
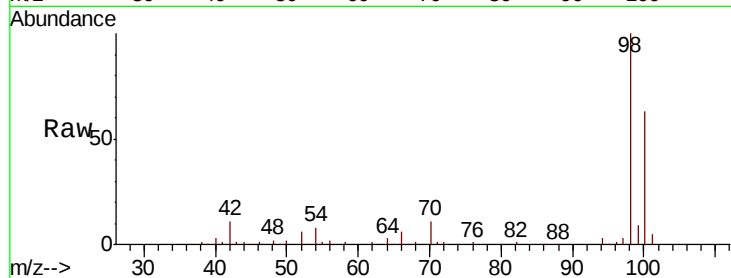
ClientSampleId :

Tot Ion: 98 Resp: 58289

Ion Ratio Lower Upper

98 100

100 63.3 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.894 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW007779.D

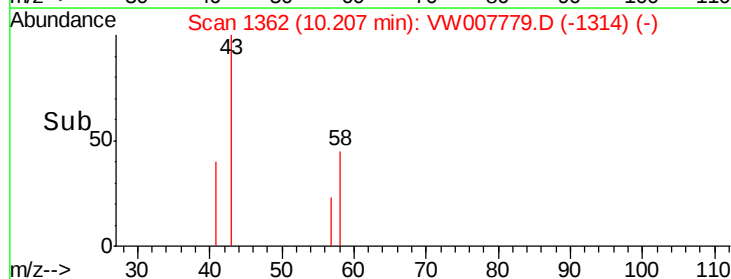
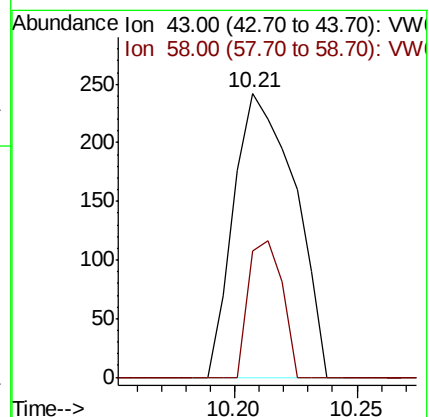
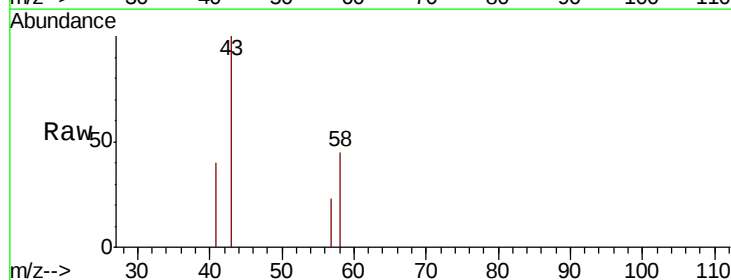
Acq: 21 Dec 2018 07:48

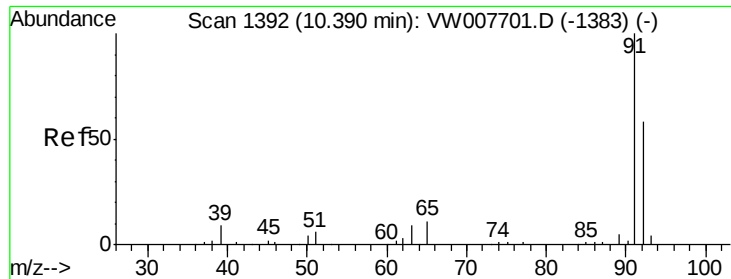
Tgt Ion: 43 Resp: 421

Ion Ratio Lower Upper

43 100

58 26.6 33.2 49.8#





#52

Toluene

Concen: 1.863 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

Instrument :

MSVOA_W

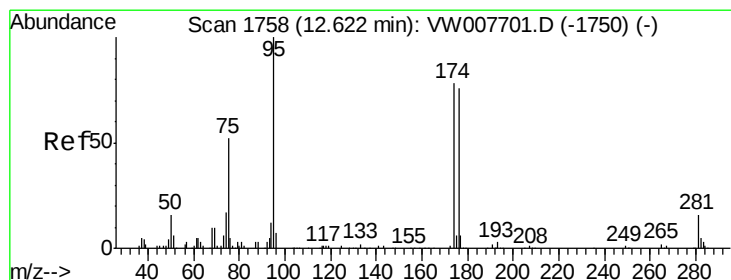
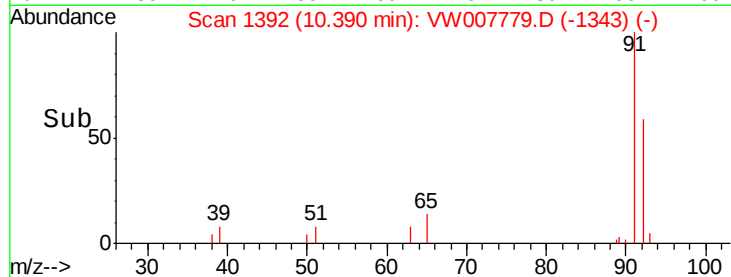
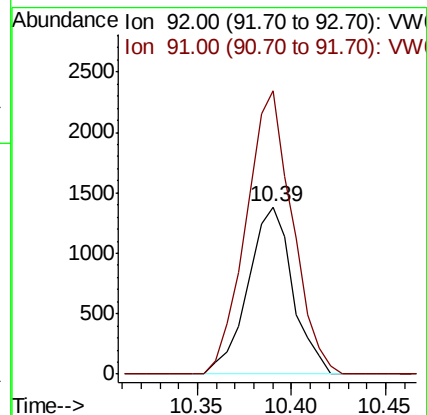
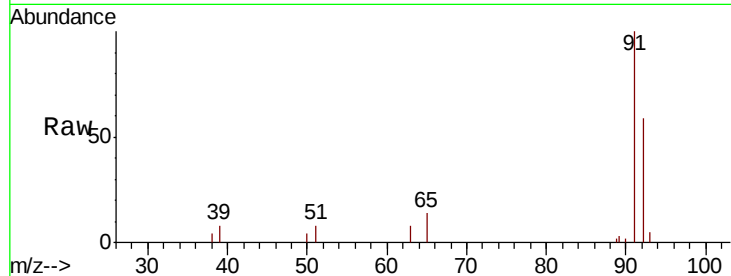
ClientSampled :

Tot Ion: 92 Resp: 2269

Ion Ratio Lower Upper

92 100

91 175.7 137.0 205.4



#62

4-Bromofluorobenzene

Concen: 30.819 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

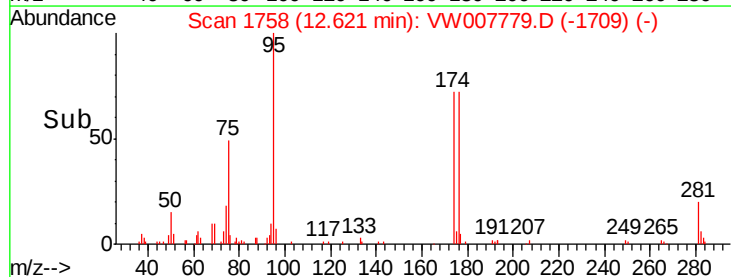
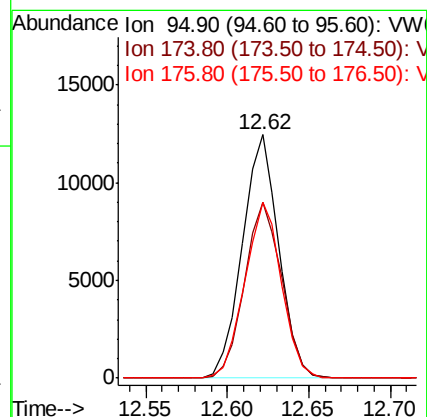
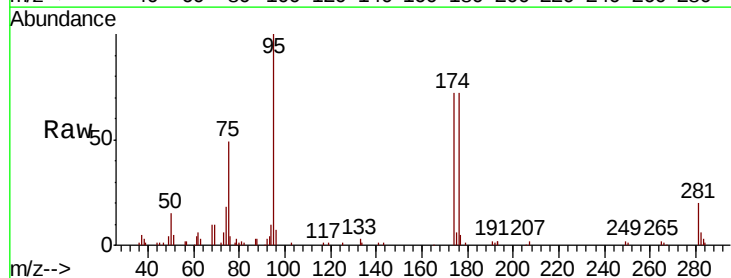
Tgt Ion: 95 Resp: 19303

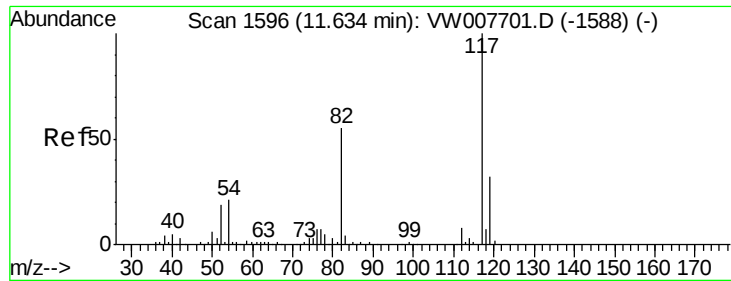
Ion Ratio Lower Upper

95 100

174 73.8 0.0 152.2

176 72.7 0.0 146.8

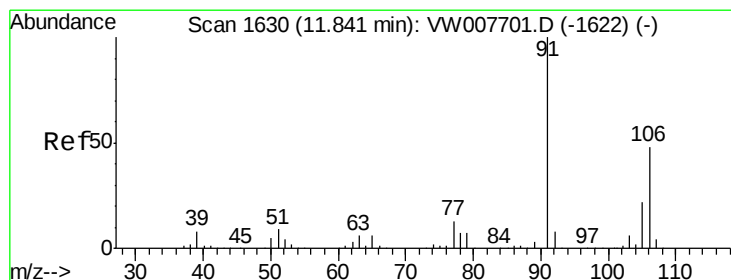
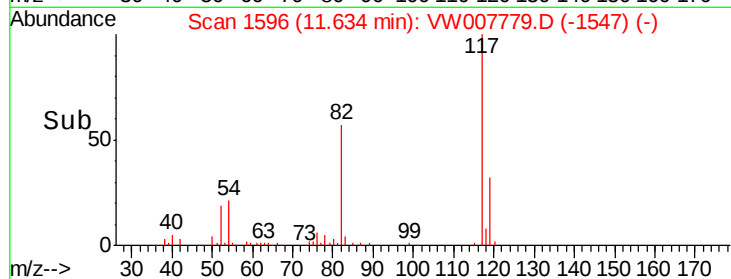
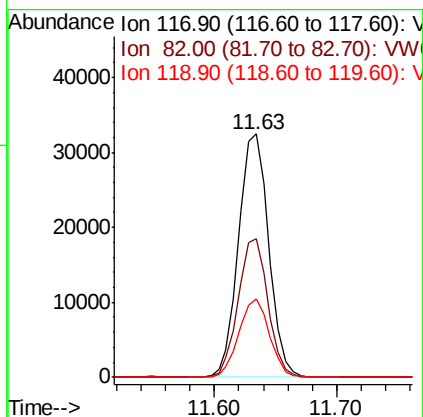
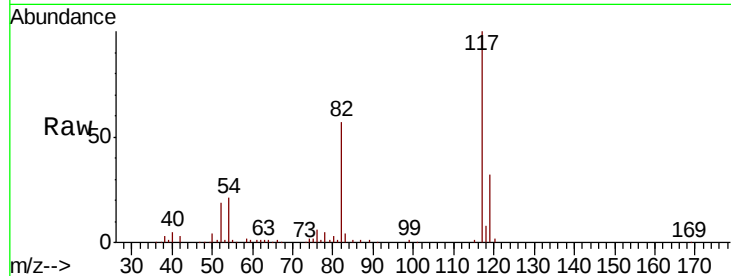




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007779.D
Acq: 21 Dec 2018 07:48

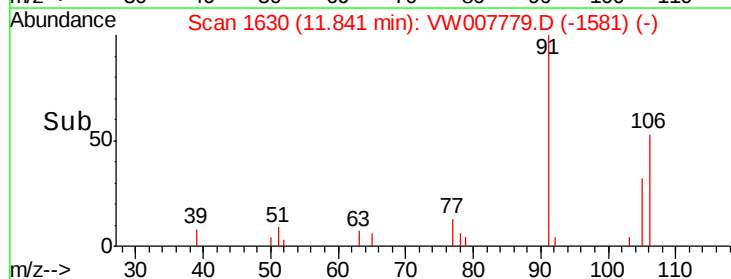
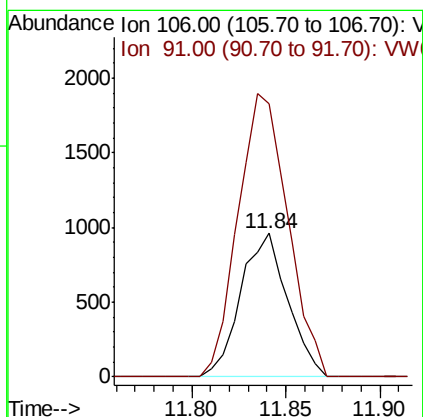
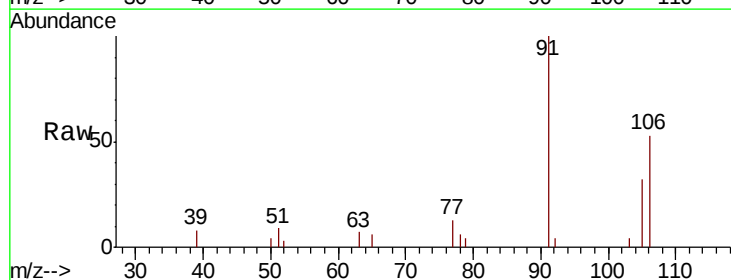
Instrument :
MSVOA_W
ClientSampled :

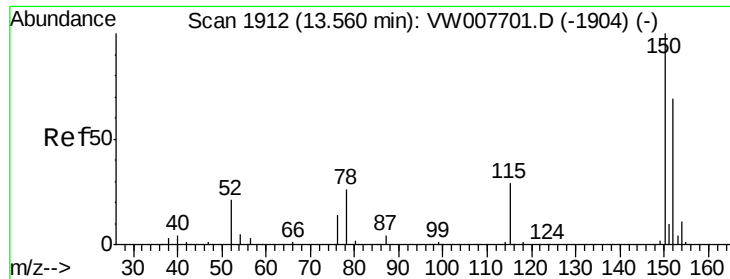
Tot Ion:117 Resp: 55708
Ion Ratio Lower Upper
117 100
82 56.9 44.3 66.5
119 32.2 25.7 38.5



#68
m/p-Xylenes
Concen: 2.058 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007779.D
Acq: 21 Dec 2018 07:48

Tgt Ion:106 Resp: 1652
Ion Ratio Lower Upper
106 100
91 210.4 165.2 247.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

Instrument :

MSVOA_W

ClientSampleId :

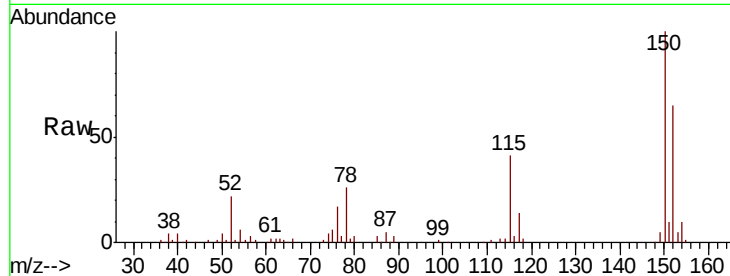
Tot Ion:152 Resp: 18101

Ion Ratio Lower Upper

152 100

115 61.9 31.8 95.4

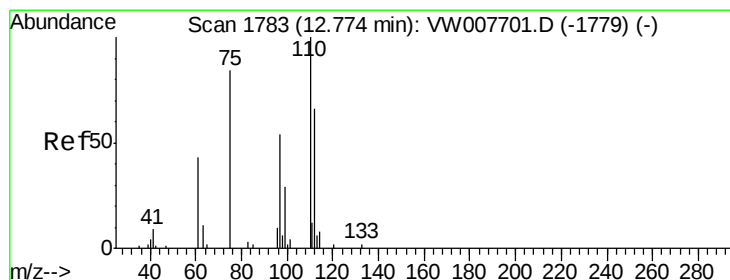
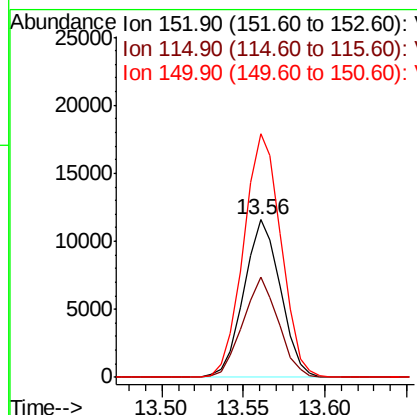
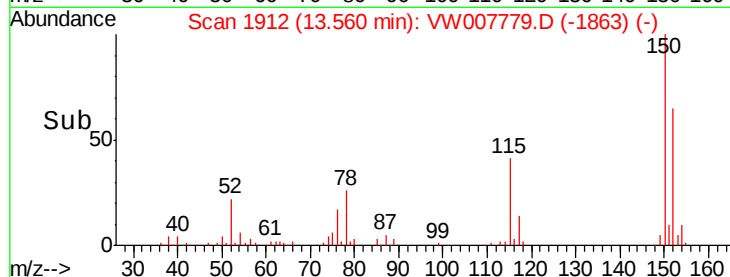
150 157.9 0.0 350.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 70.120 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007779.D

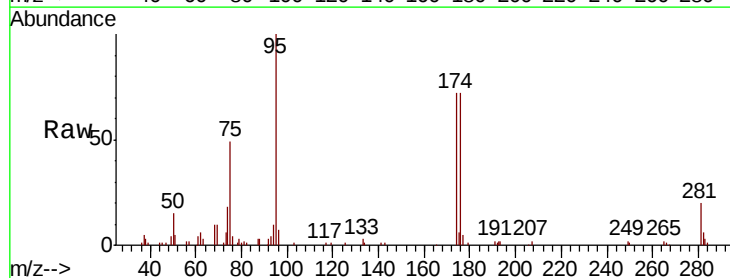
Acq: 21 Dec 2018 07:48

Tgt Ion: 75 Resp: 9810

Ion Ratio Lower Upper

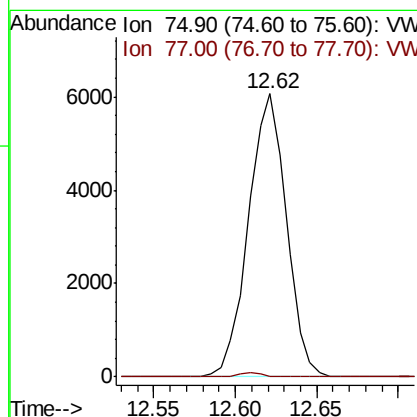
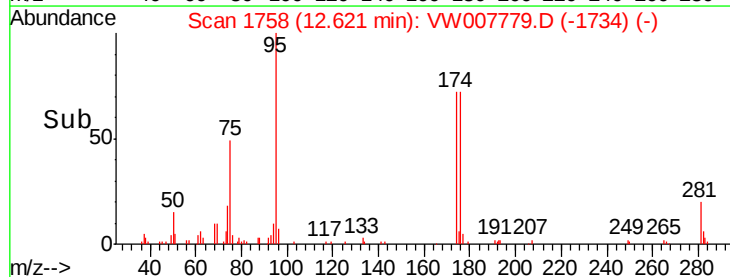
75 100

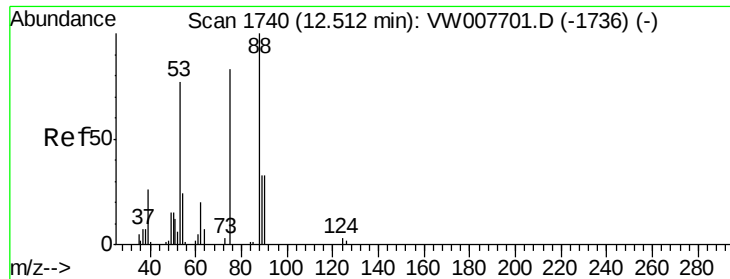
77 0.8 0.0 0.0#



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: 147.186 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007779.D

Acq: 21 Dec 2018 07:48

Instrument :

MSVOA_W

ClientSampleId :

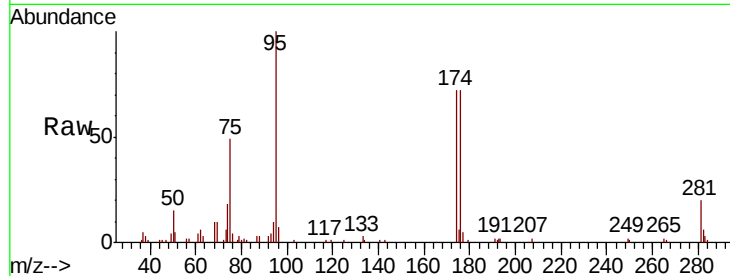
Tot Ion: 75 Resp: 9810

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

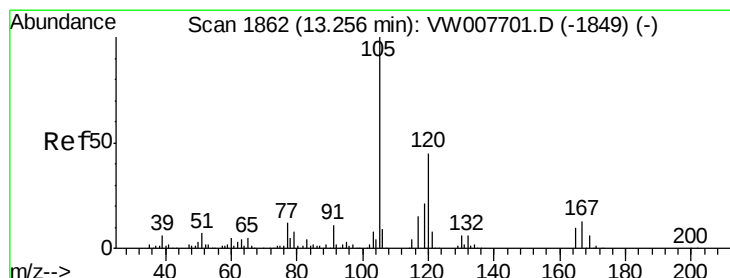
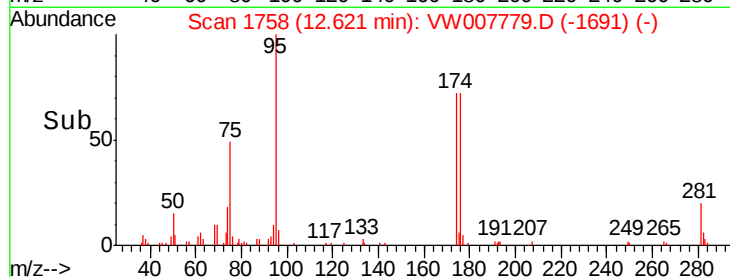
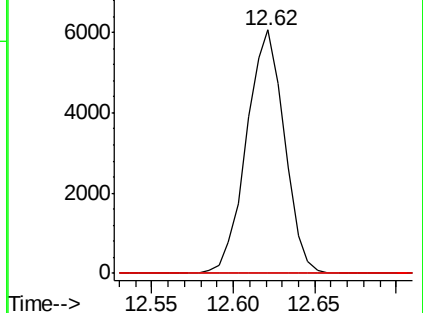
89 0.0 39.2 58.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.700 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW007779.D

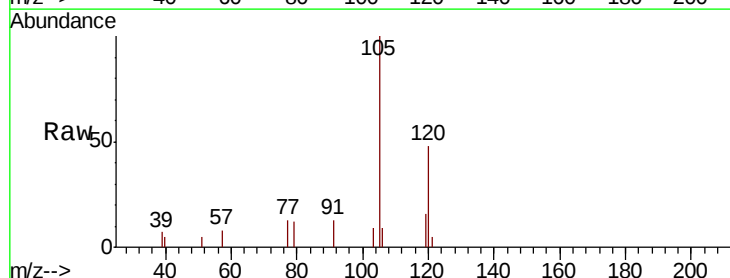
Acq: 21 Dec 2018 07:48

Tgt Ion:105 Resp: 2025

Ion Ratio Lower Upper

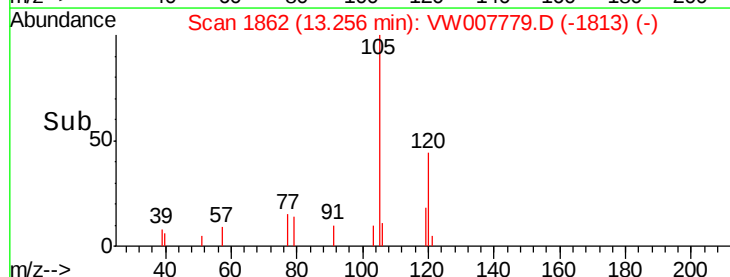
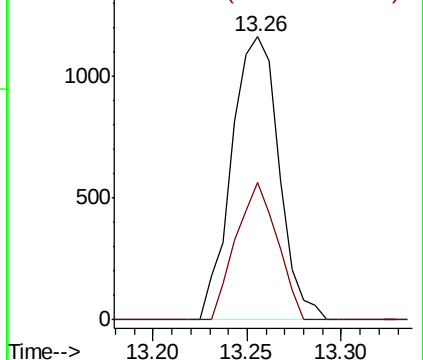
105 100

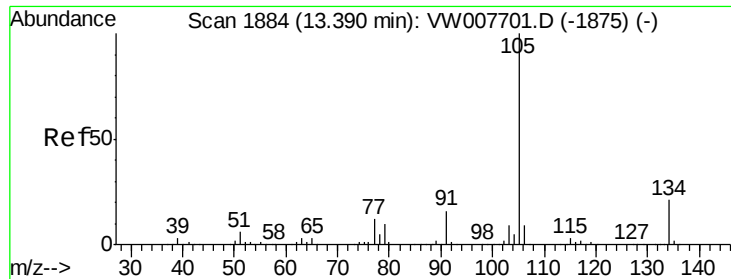
120 42.2 22.0 66.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

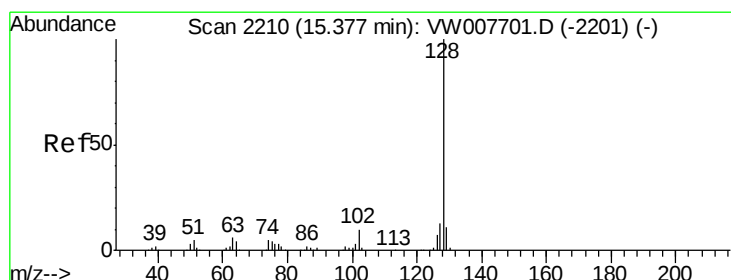
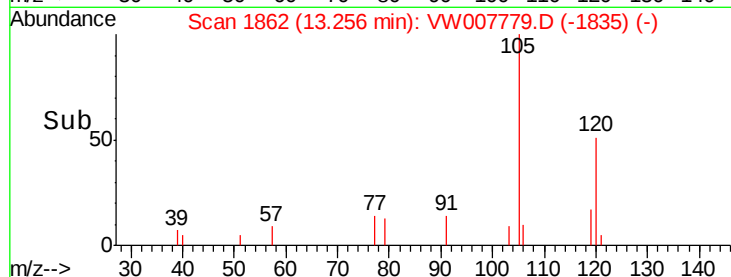
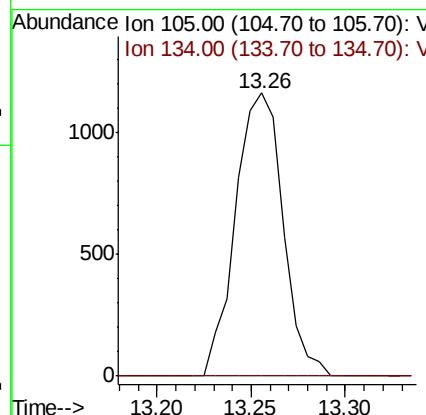
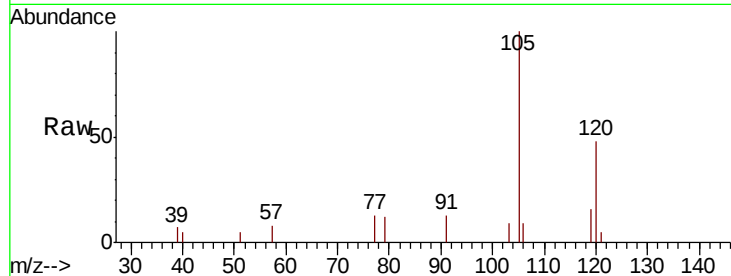




#85
 sec-Butylbenzene
 Concen: 1.419 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.13 min
 Lab File: VW007779.D
 Acq: 21 Dec 2018 07:48

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:105 Resp: 2025
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#



#95
 Naphthalene
 Concen: 3.067 ug/l
 RT: 15.38 min Scan# 2211
 Delta R.T. 0.01 min
 Lab File: VW007779.D
 Acq: 21 Dec 2018 07:48

Tgt Ion:128 Resp: 2194
 Ion Ratio Lower Upper
 128 100
 127 11.3 10.7 16.1
 129 4.1 8.8 13.2#

