

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122218\
 Data File : VW007777.D
 Acq On : 21 Dec 2018 06:56
 Operator : SY/AP
 Sample : J6389-02
 Misc : 5.16G/5ML/MSVOA W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SS012-0612-01

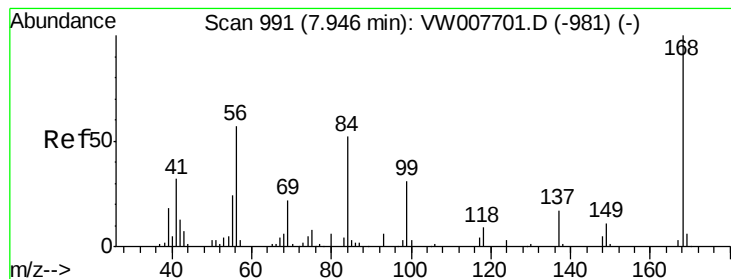
Quant Time: Dec 21 10:07:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	61294	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	98461	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	59934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	15530	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	31866	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
35) Dibromofluoromethane	7.88	113	26708	44.46	ug/l	0.00
Spiked Amount			Recovery	=	88.92%	
50) Toluene-d8	10.32	98	72225	31.90	ug/l	0.00
Spiked Amount			Recovery	=	63.80%	
62) 4-Bromofluorobenzene	12.62	95	18293	20.91	ug/l	0.00
Spiked Amount			Recovery	=	41.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	785	2.890	ug/l #	54
11) Tert butyl alcohol	5.15	59	252	5.561	ug/l #	73
16) Acetone	4.12	43	47868	380.500	ug/l	97
18) Methyl Acetate	4.68	43	1127	3.767	ug/l #	65
20) Methylene Chloride	4.92	84	9133	9.396	ug/l	96
25) 2-Butanone	7.18	43	3085	20.936	ug/l	100
29) Tetrahydrofuran	7.54	42	271	3.083	ug/l #	51
31) Cyclohexane	7.95	56	1237	1.237	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	4503	4.738	ug/l #	47
37) Ethyl Acetate	7.18	43	3085	9.406	ug/l #	68
38) Carbon Tetrachloride	7.95	117	6501	5.809	ug/l #	15
51) 4-Methyl-2-Pentanone	10.21	43	512	1.649	ug/l	89
52) Toluene	10.39	92	2029	1.193	ug/l	99
68) m/p-Xylenes	11.84	106	1859	2.153	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	9161	76.321	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	9161	160.204	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.26	105	2219	2.172	ug/l	95
85) sec-Butylbenzene	13.26	105	2219	1.812	ug/l #	56
92) 1,2-Dibromo-3-Chloropropan	14.33	75	158	4.371	ug/l #	3
95) Naphthalene	15.37	128	1646	2.682	ug/l #	87

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

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Acq: 21 Dec 2018 06:56

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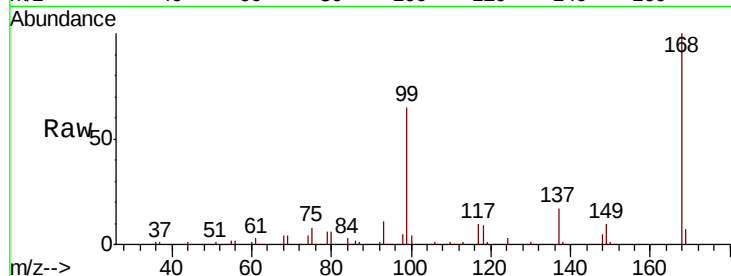
P001-SS012-0612-01

Tot Ion:168 Resp: 61294

Ion Ratio Lower Upper

168 100

99 65.3 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

30000

25000

20000

15000

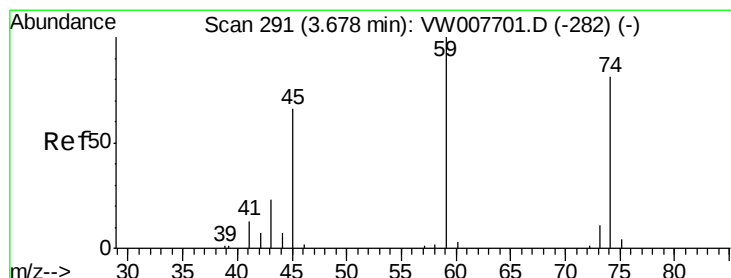
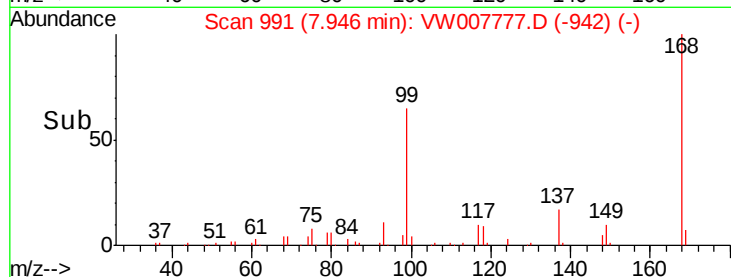
10000

5000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#8

Diethyl Ether

Concen: 2.890 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW007777.D

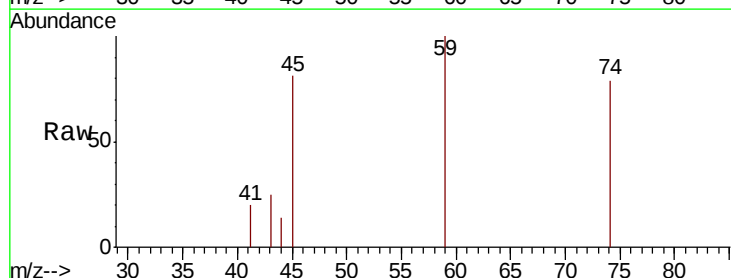
Acq: 21 Dec 2018 06:56

Tgt Ion: 74 Resp: 785

Ion Ratio Lower Upper

74 100

45 118.9 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

400

300

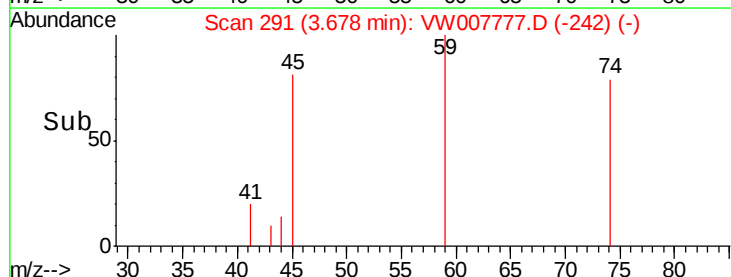
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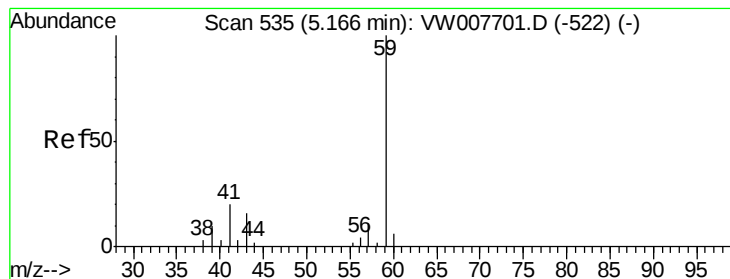
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0

Time-->

3.65 3.70



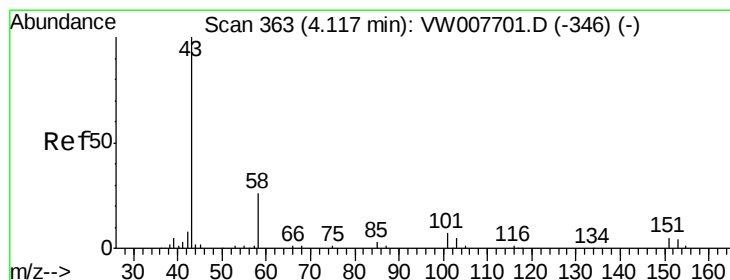
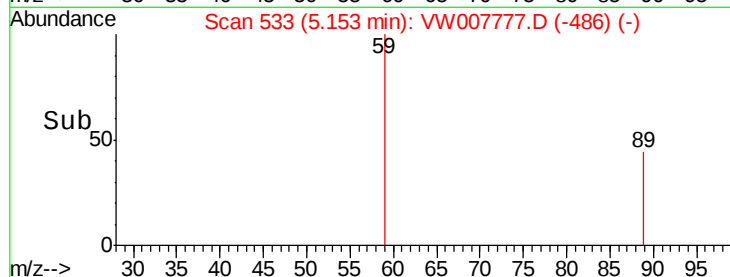
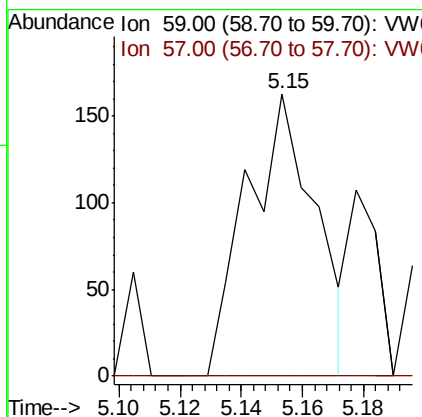
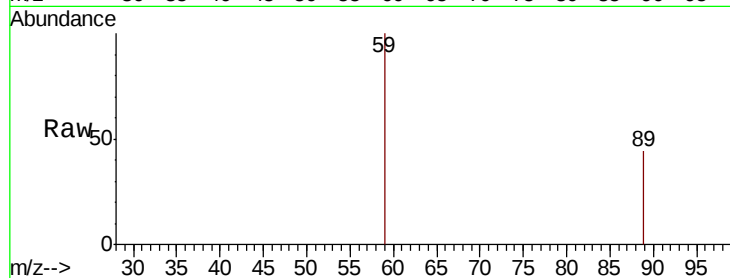


#11

Tert butyl alcohol
 Concen: 5.561 ug/l
 RT: 5.15 min Scan# 533
 Delta R.T. -0.01 min
 Lab File: VW007777.D
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Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SS012-0612-01

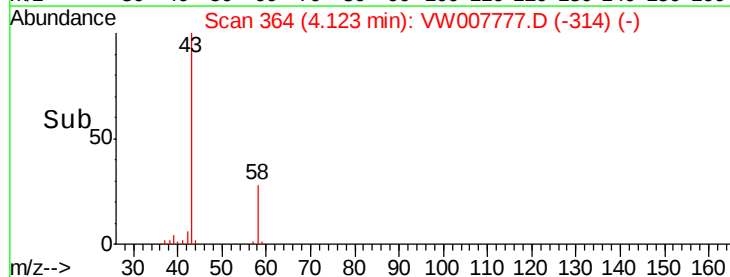
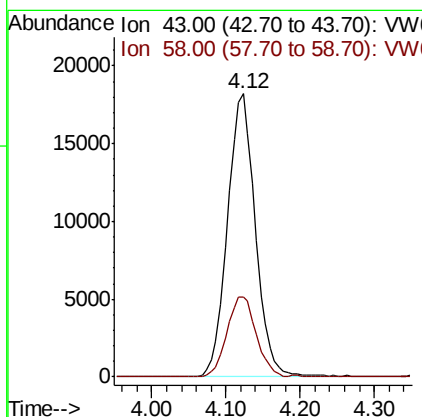
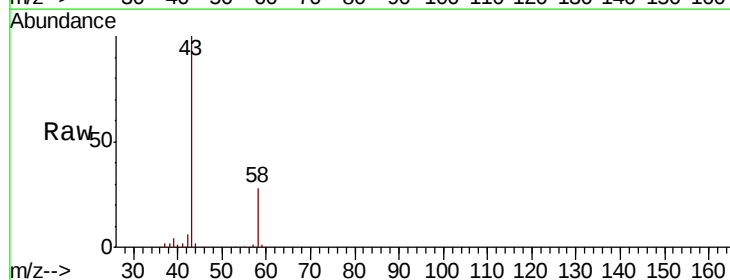
Tot Ion: 59 Resp: 252
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

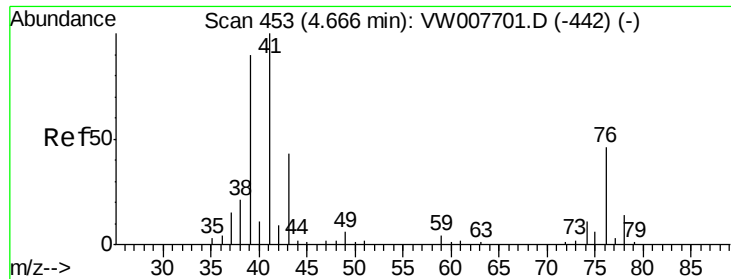


#16

Acetone
 Concen: 380.500 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VW007777.D
 Acq: 21 Dec 2018 06:56

Tgt Ion: 43 Resp: 47868
 Ion Ratio Lower Upper
 43 100
 58 28.1 21.2 31.8

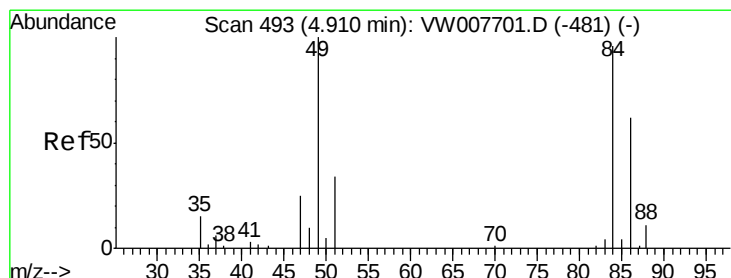
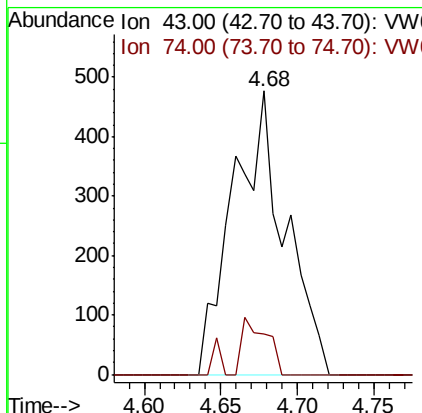
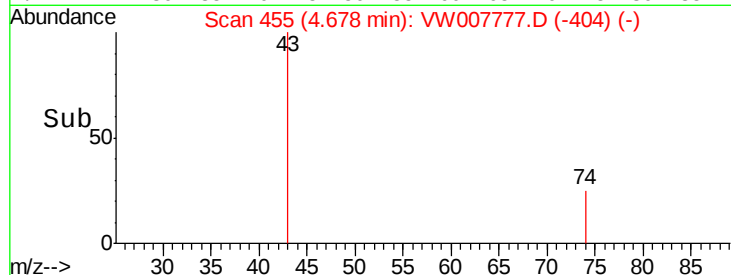
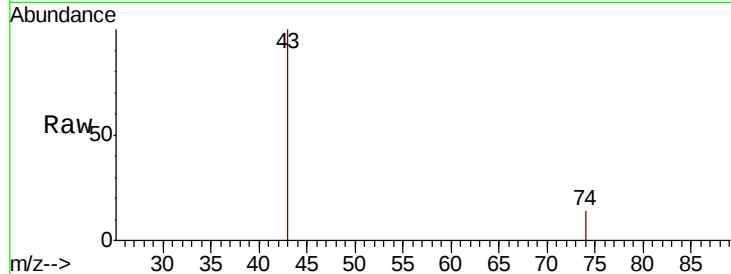




#18
Methyl Acetate
Concen: 3.767 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW007777.D
Acq: 21 Dec 2018 06:56

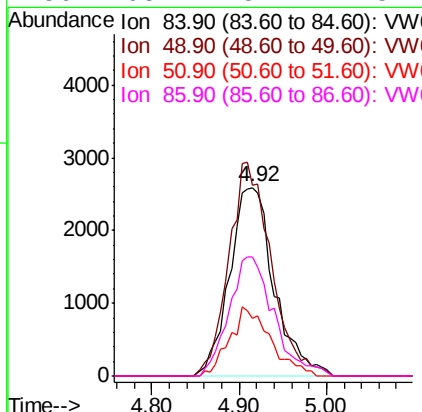
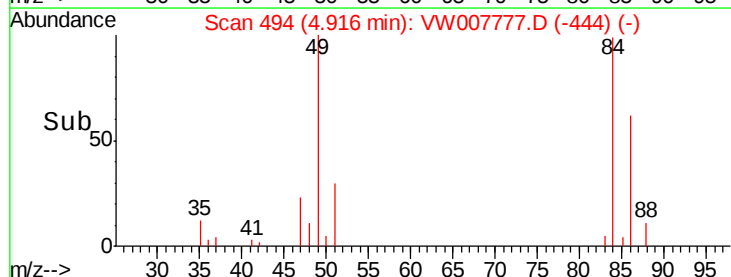
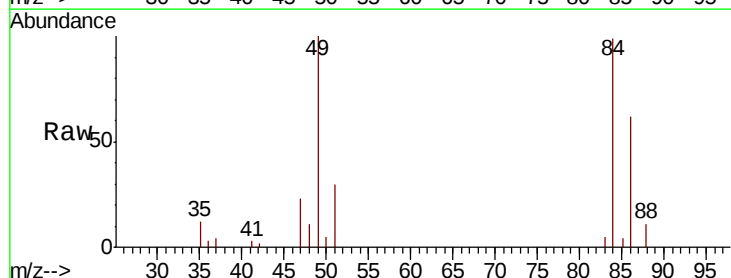
Instrument :
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ClientSampleId :
P001-SS012-0612-01

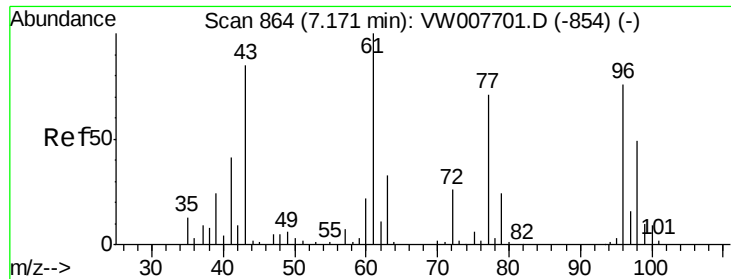
Tot Ion: 43 Resp: 1127
Ion Ratio Lower Upper
43 100
74 9.8 22.7 34.1#



#20
Methylene Chloride
Concen: 9.396 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW007777.D
Acq: 21 Dec 2018 06:56

Tgt Ion: 84 Resp: 9133
Ion Ratio Lower Upper
84 100
49 101.2 83.7 125.5
51 30.8 28.2 42.2
86 63.1 52.2 78.2

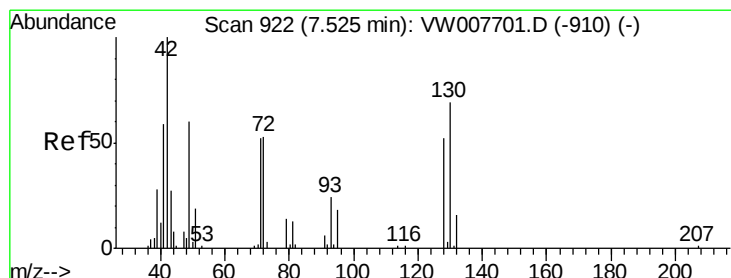
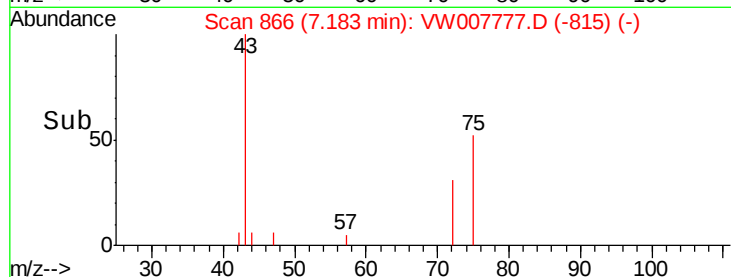
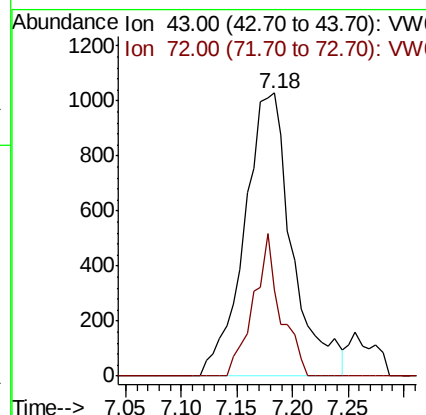
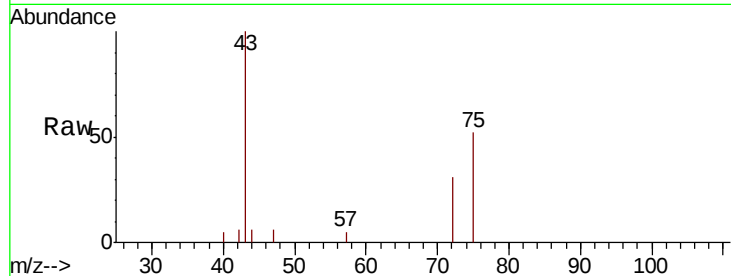




#25
2-Butanone
Concen: 20.936 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW007777.D
Acq: 21 Dec 2018 06:56

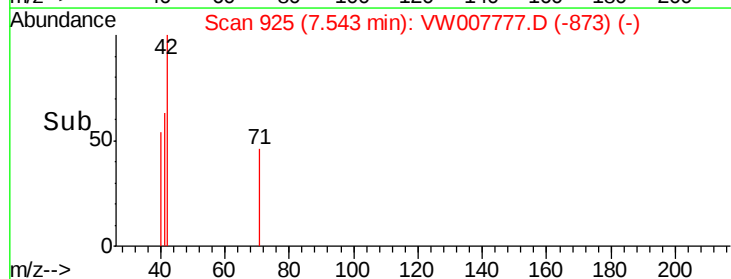
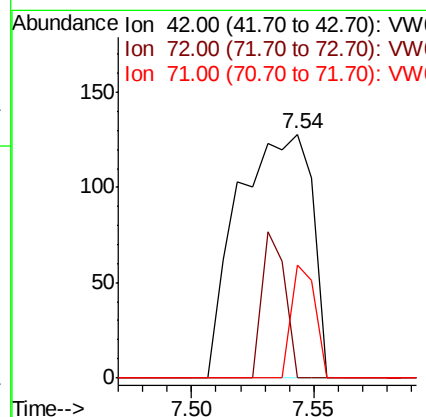
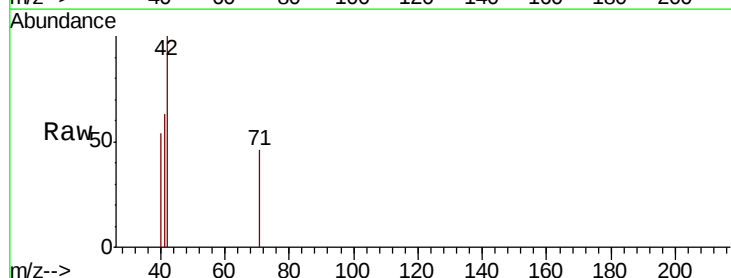
Instrument :
MSVOA_W
ClientSampleId :
P001-SS012-0612-01

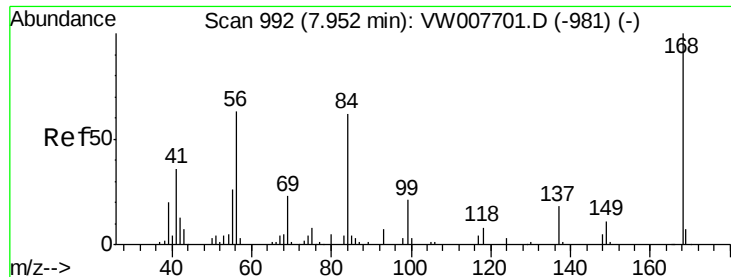
Tot Ion: 43 Resp: 3085
Ion Ratio Lower Upper
43 100
72 30.6 24.5 36.7



#29
Tetrahydrofuran
Concen: 3.083 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: VW007777.D
Acq: 21 Dec 2018 06:56

Tgt Ion: 42 Resp: 271
Ion Ratio Lower Upper
42 100
72 18.5 41.7 62.5#
71 14.8 39.0 58.6#

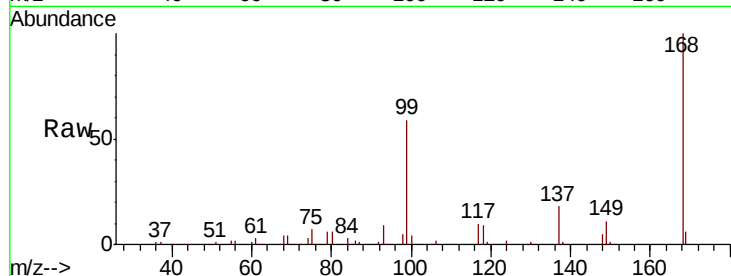




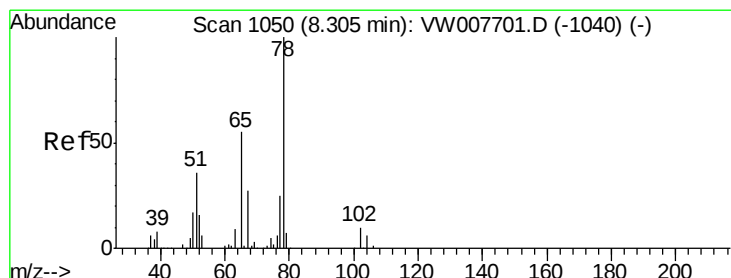
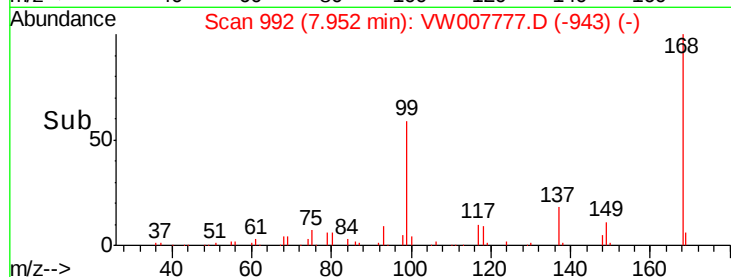
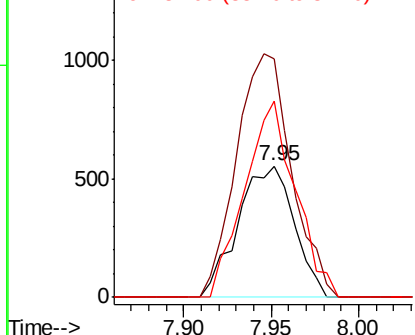
#31
Cyclohexane
Concen: 1.237 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW007777.D
Acq: 21 Dec 2018 06:56

Instrument :
MSVOA_W
ClientSampleId :
P001-SS012-0612-01

Tot Ion: 56 Resp: 1237
Ion Ratio Lower Upper
56 100
69 181.2 29.7 44.5#
84 149.5 78.9 118.3#

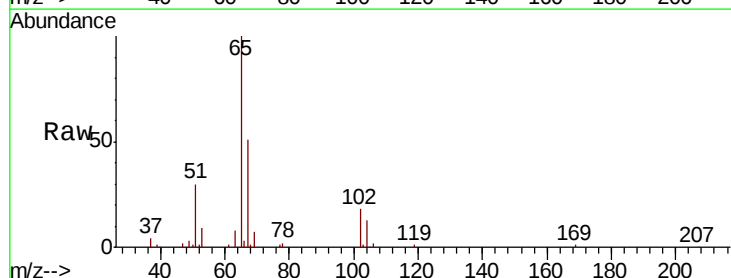


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

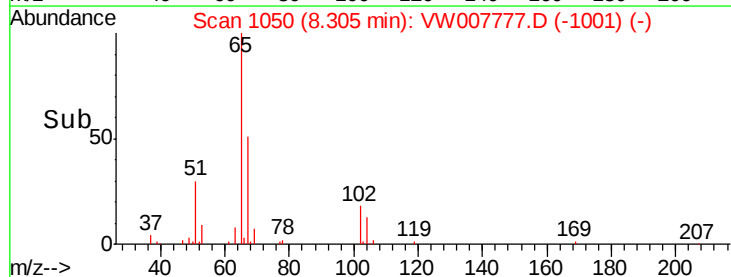
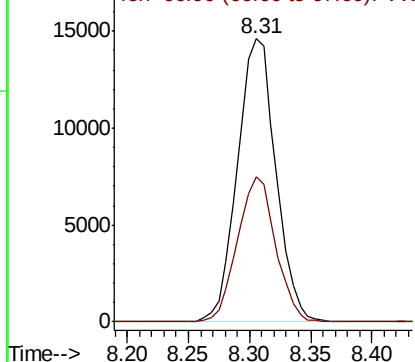


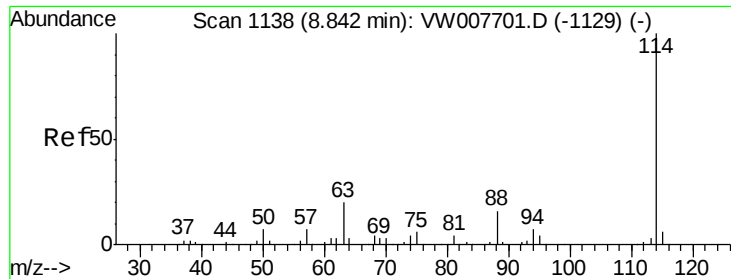
#33
1,2-Dichloroethane-d4
Concen: 47.433 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW007777.D
Acq: 21 Dec 2018 06:56

Tgt Ion: 65 Resp: 31866
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.6



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

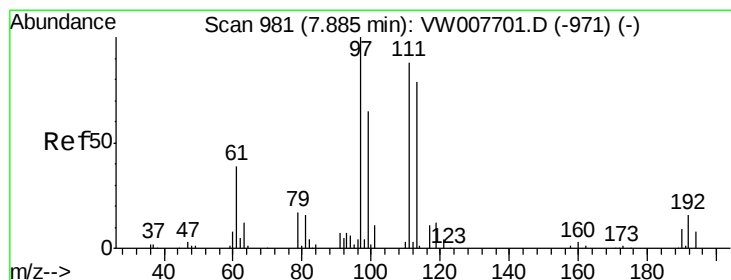
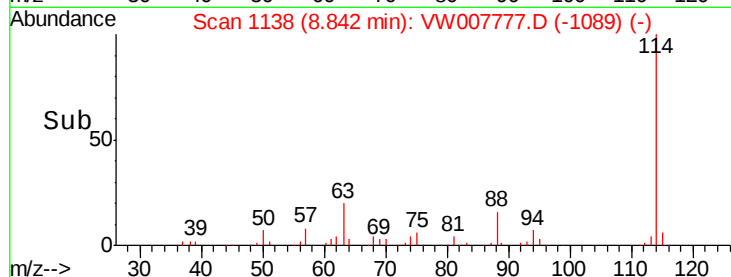
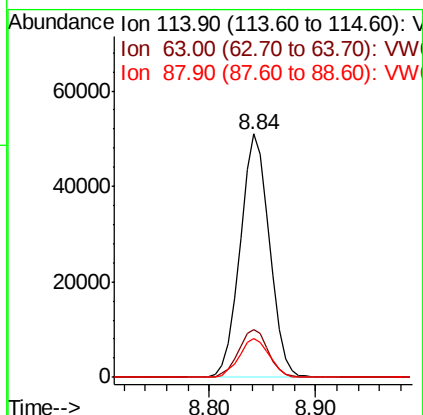
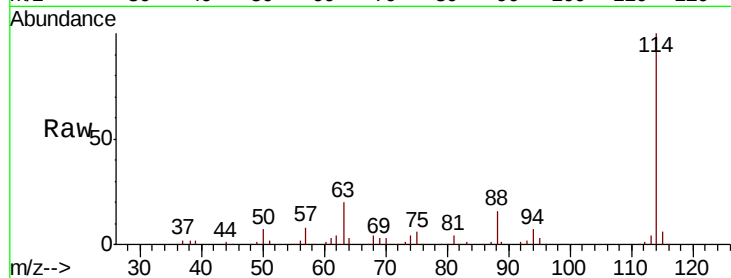




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007777.D
 Acq: 21 Dec 2018 06:56

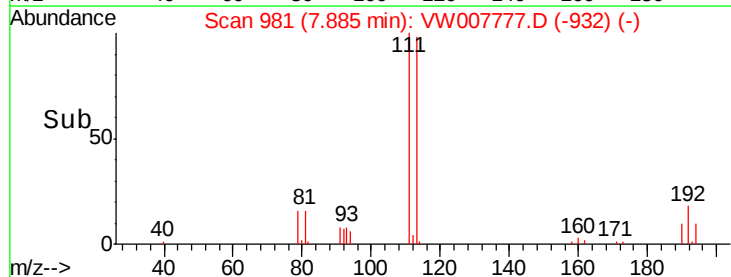
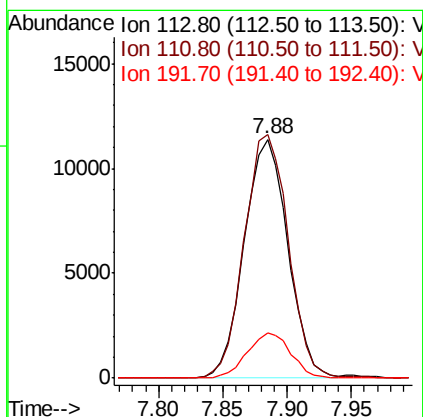
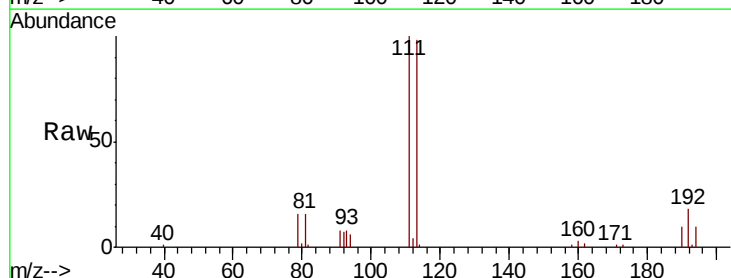
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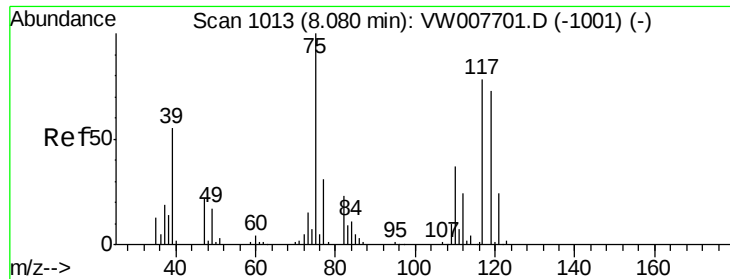
Tot Ion:114 Resp: 98461
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 16.2 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 44.464 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW007777.D
 Acq: 21 Dec 2018 06:56

Tgt Ion:113 Resp: 26708
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.6 124.0
 192 18.7 15.5 23.3

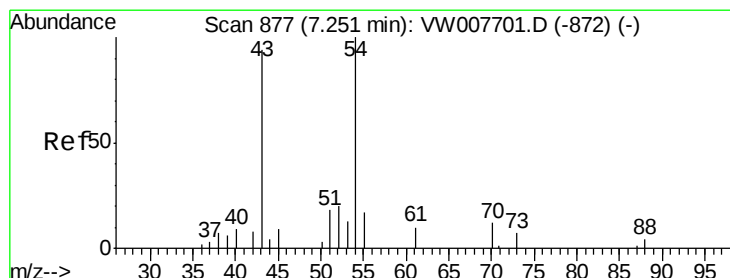
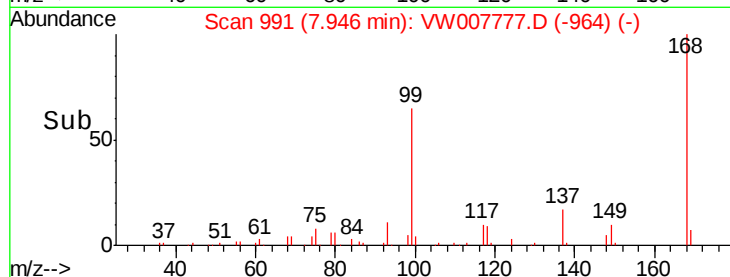
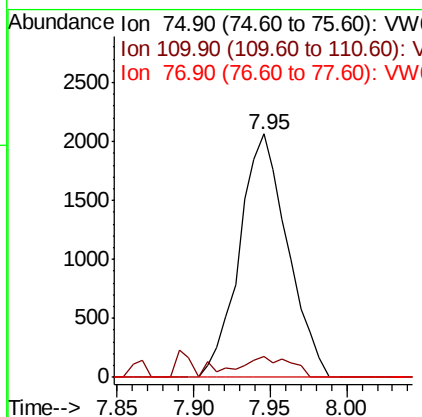
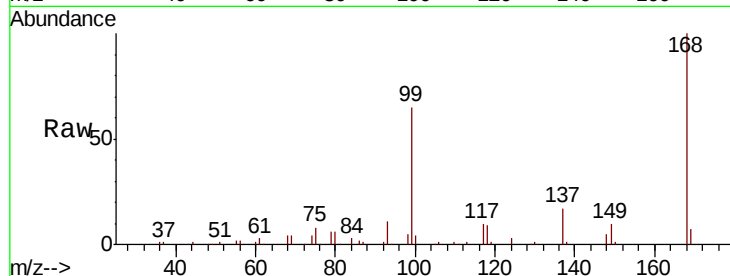




#36
 1,1-Dichloropropene
 Concen: 4.738 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW007777.D
 Acq: 21 Dec 2018 06:56

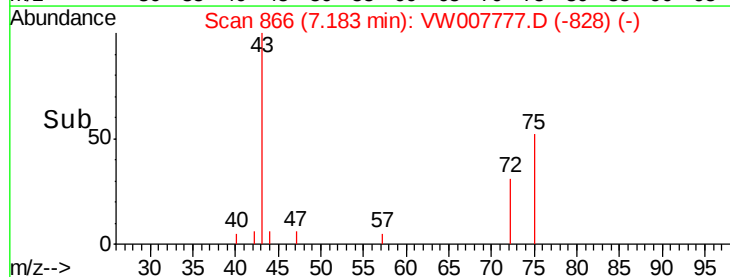
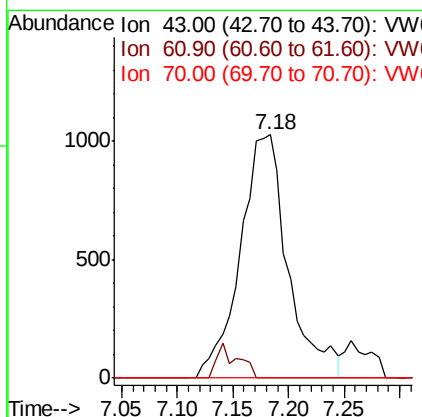
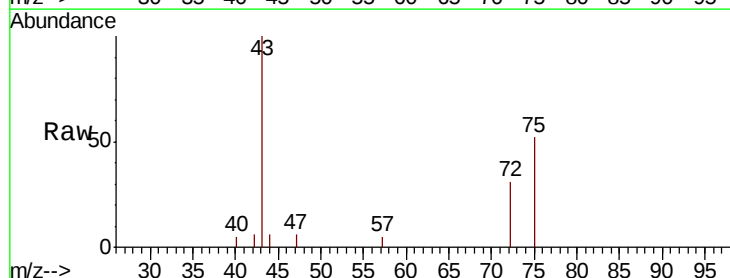
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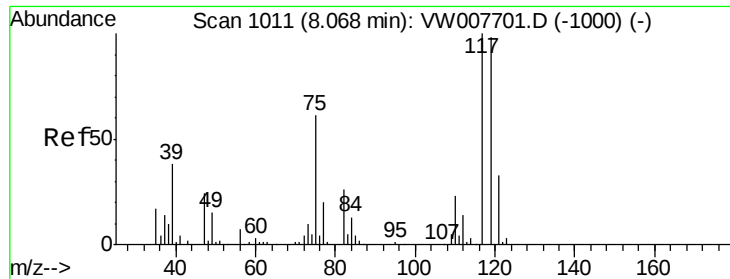
Tot Ion: 75 Resp: 4503
 Ion Ratio Lower Upper
 75 100
 110 7.6 18.6 55.8#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 9.406 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. -0.07 min
 Lab File: VW007777.D
 Acq: 21 Dec 2018 06:56

Tgt Ion: 43 Resp: 3085
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.2 16.8#
 70 0.0 9.3 13.9#

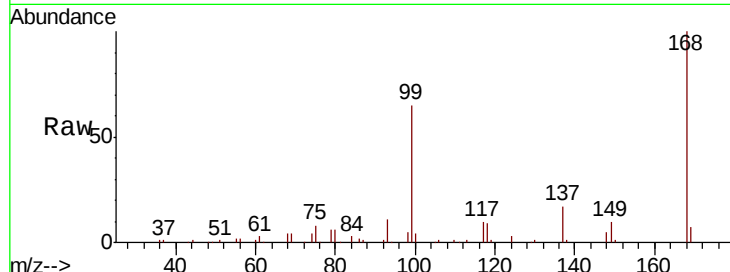




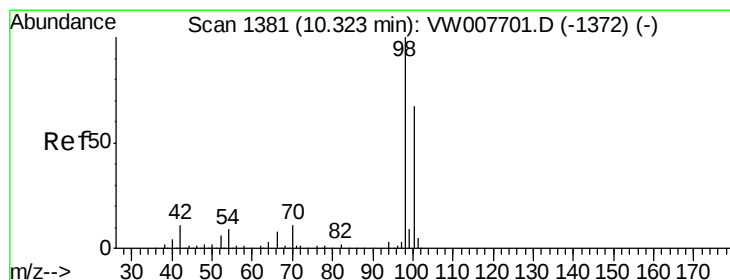
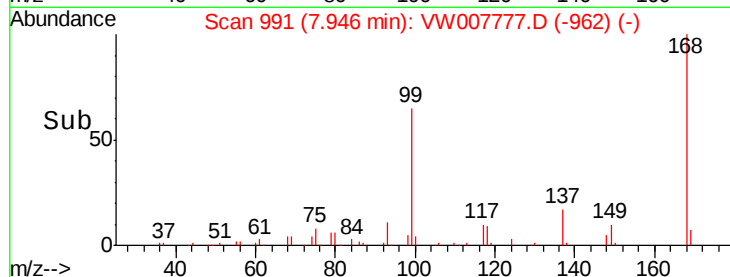
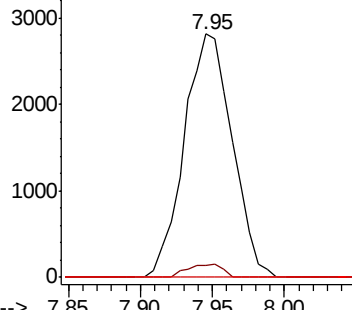
#38
Carbon Tetrachloride
Concen: 5.809 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW007777.D
Acq: 21 Dec 2018 06:56

Instrument :
MSVOA_W
ClientSampleId :
P001-SS012-0612-01

Tot Ion:117 Resp: 6501
Ion Ratio Lower Upper
117 100
119 5.1 78.2 117.2#
121 0.0 26.1 39.1#

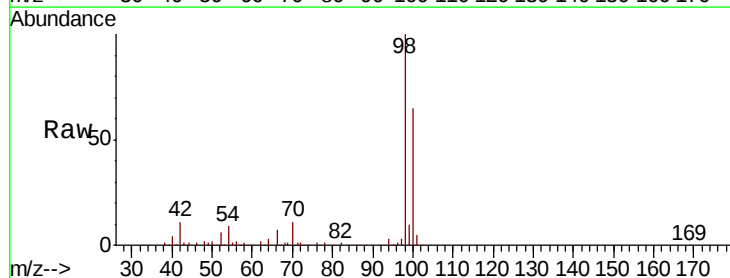


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

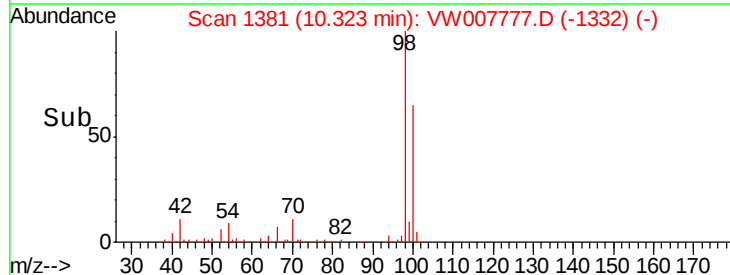
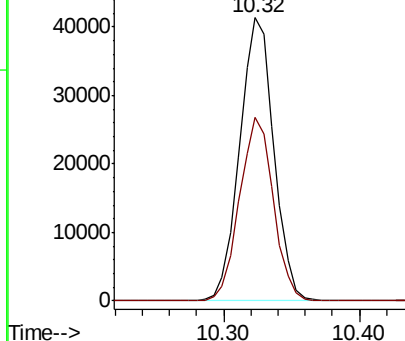


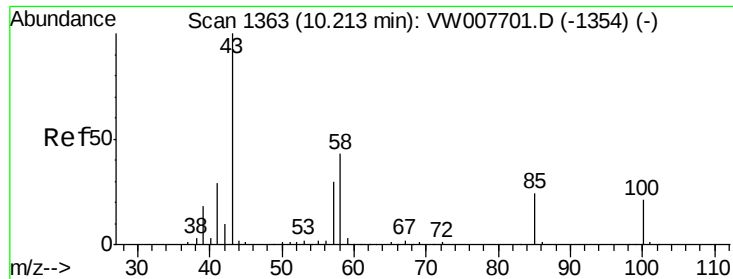
#50
Toluene-d8
Concen: 31.896 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW007777.D
Acq: 21 Dec 2018 06:56

Tgt Ion: 98 Resp: 72225
Ion Ratio Lower Upper
98 100
100 64.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.649 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

Instrument :

MSVOA_W

ClientSampleId :

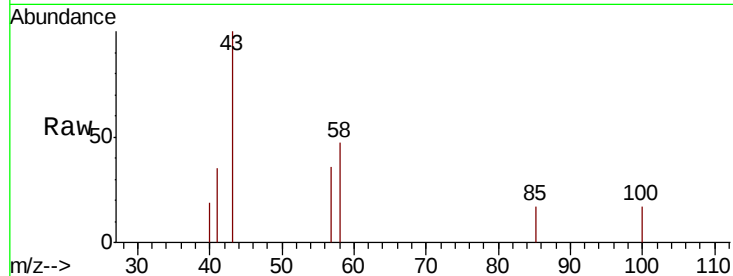
P001-SS012-0612-01

Tot Ion: 43 Resp: 512

Ion Ratio Lower Upper

43 100

58 34.6 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.21

300

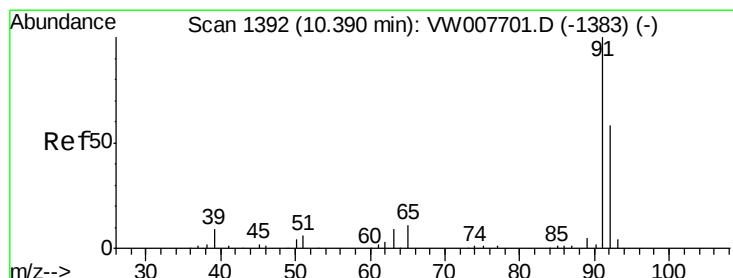
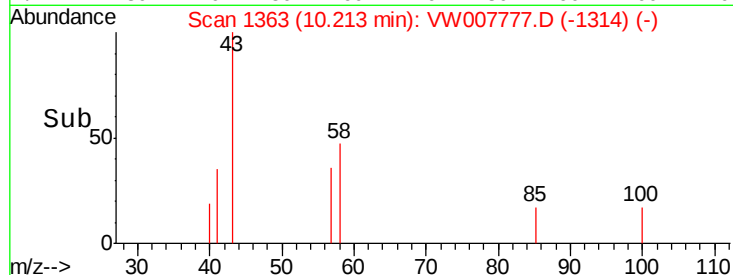
200

100

0

10.15 10.20 10.25

Time-->



#52

Toluene

Concen: 1.193 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007777.D

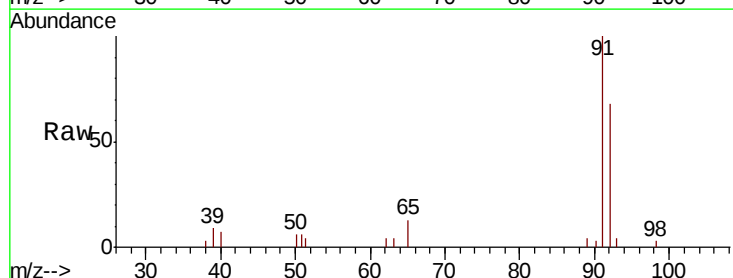
Acq: 21 Dec 2018 06:56

Tgt Ion: 92 Resp: 2029

Ion Ratio Lower Upper

92 100

91 172.4 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

10.39

2000

1500

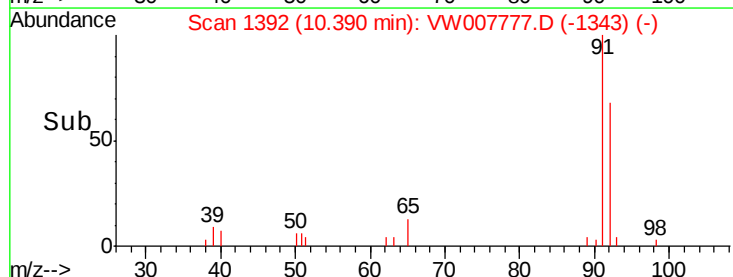
1000

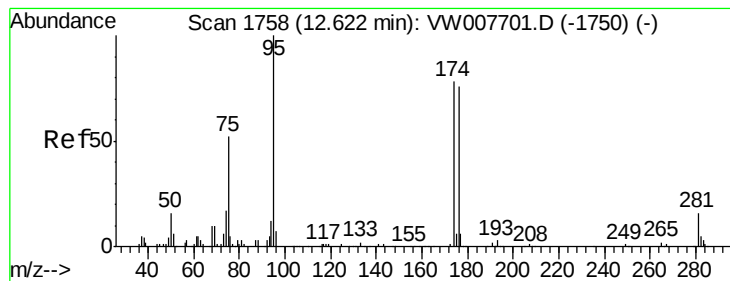
500

0

10.35 10.40 10.45

Time-->





#62

4-Bromofluorobenzene

Concen: 20.911 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

Instrument :

MSVOA_W

ClientSampleId :

P001-SS012-0612-01

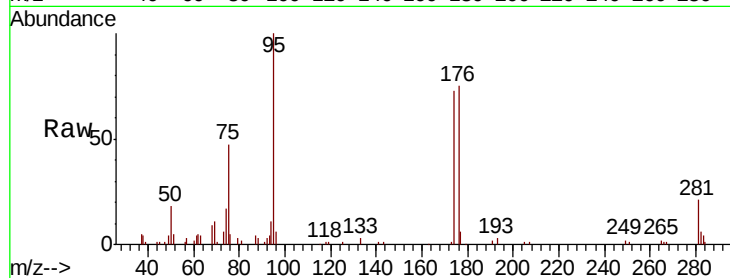
Tot Ion: 95 Resp: 18293

Ion Ratio Lower Upper

95 100

174 72.3 0.0 152.2

176 73.6 0.0 146.8

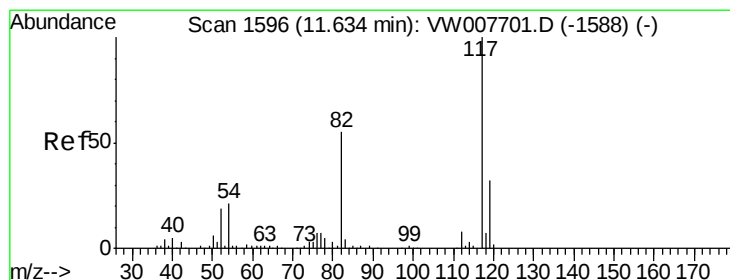
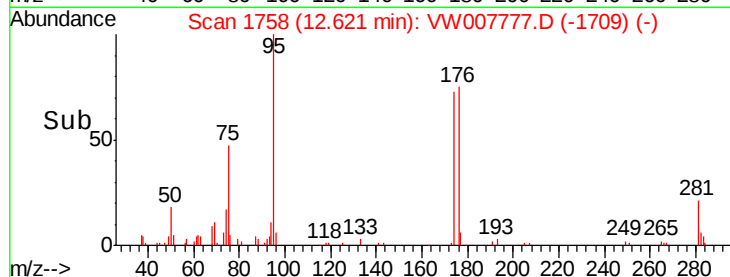
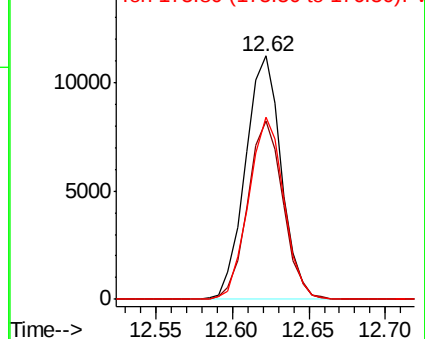


Abundance

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# 1596

Delta R.T. -0.00 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

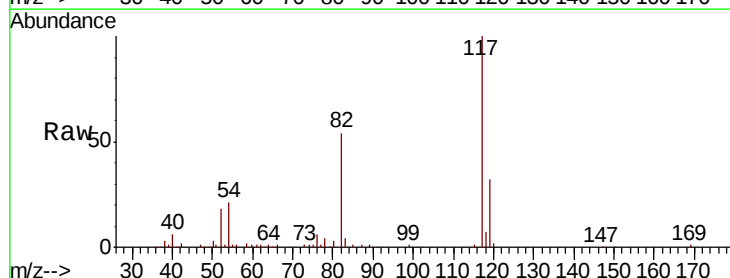
Tgt Ion: 117 Resp: 59934

Ion Ratio Lower Upper

117 100

82 54.4 44.3 66.5

119 31.4 25.7 38.5

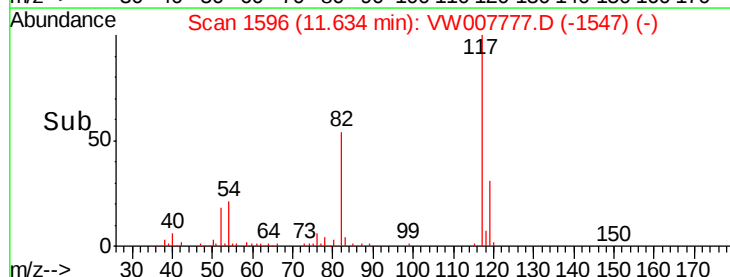
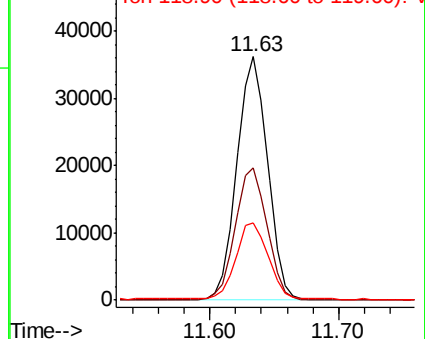


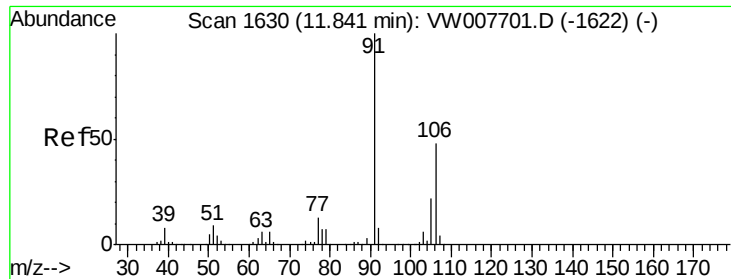
Abundance

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





#68

m/p-Xvlenes

Concen: 2.153 ug/l

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

Instrument :

MSVOA_W

ClientSampleId :

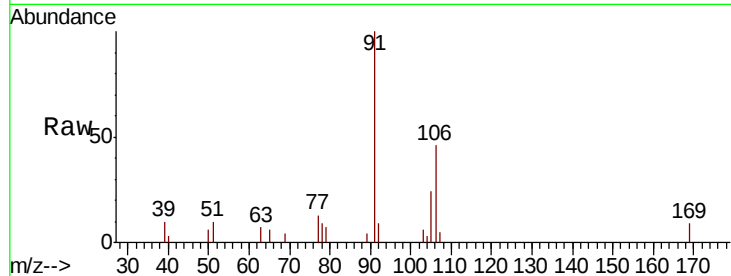
P001-SS012-0612-01

Tot Ion:106 Resp: 1859

Ion Ratio Lower Upper

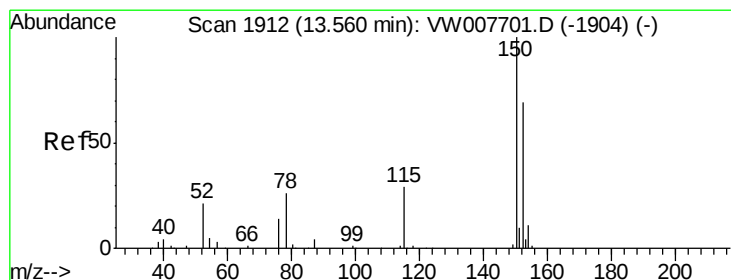
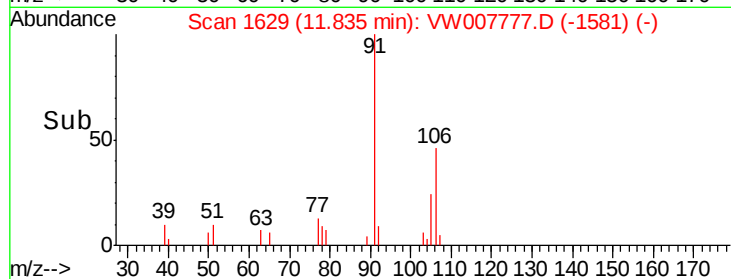
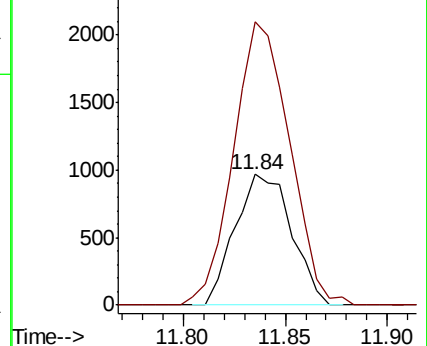
106 100

91 215.5 165.2 247.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

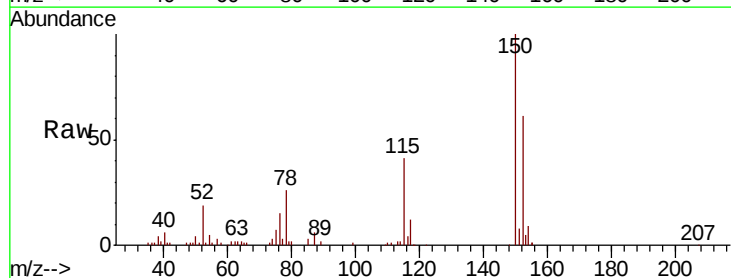
Tgt Ion:152 Resp: 15530

Ion Ratio Lower Upper

152 100

115 64.1 31.8 95.4

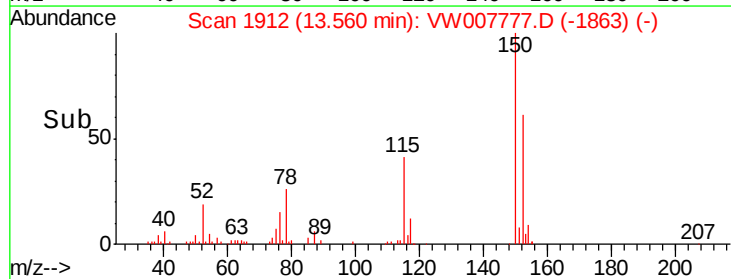
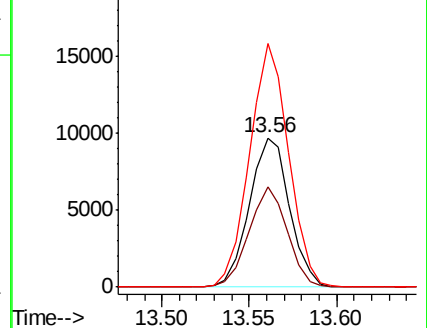
150 158.9 0.0 350.8

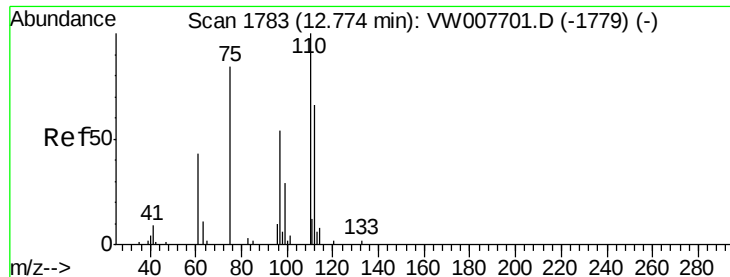


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 76.321 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

Instrument :

MSVOA_W

ClientSampleId :

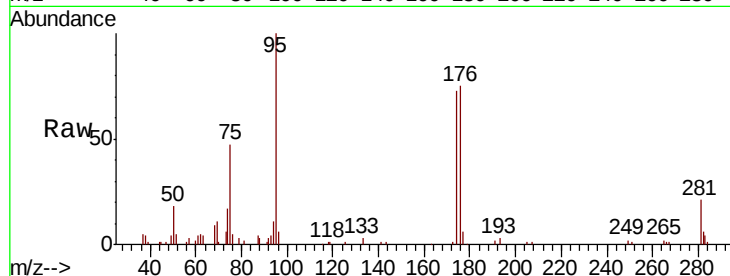
P001-SS012-0612-01

Tot Ion: 75 Resp: 9161

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

6000

5000

4000

3000

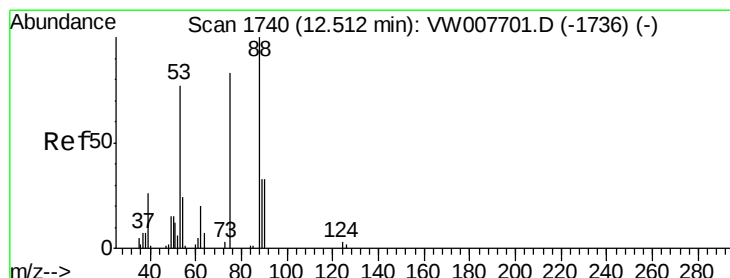
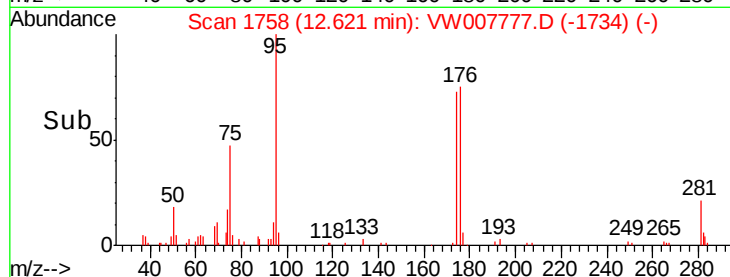
2000

1000

0

12.55 12.60 12.65

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 160.204 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

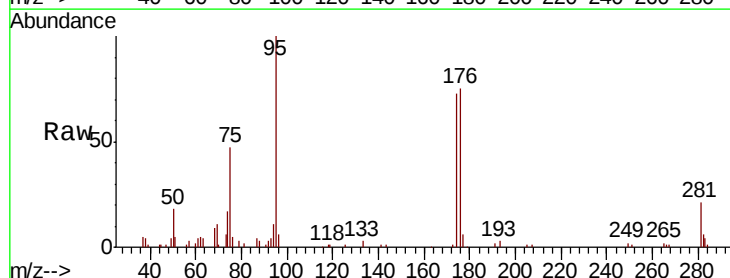
Tgt Ion: 75 Resp: 9161

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

6000

5000

4000

3000

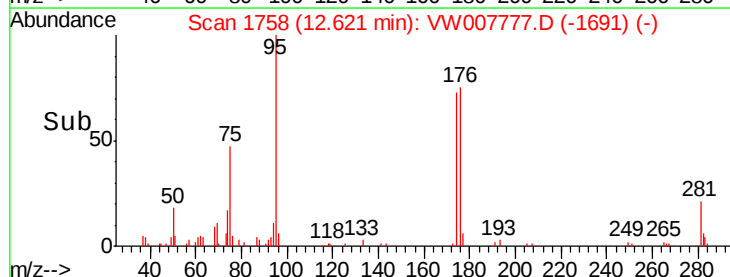
2000

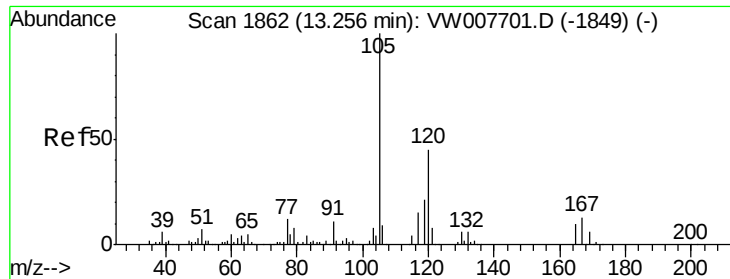
1000

0

12.55 12.60 12.65

Time-->

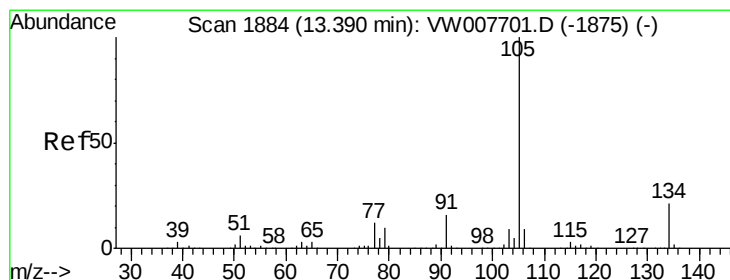
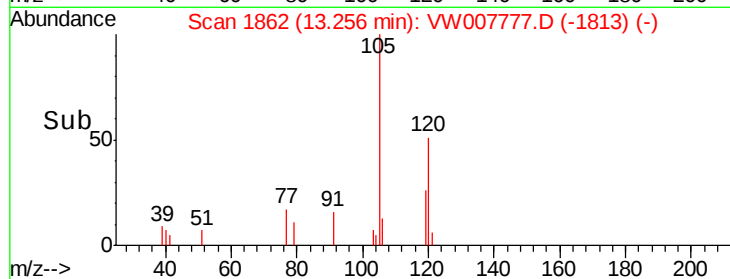
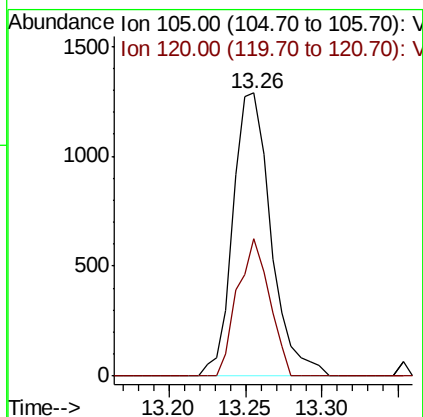
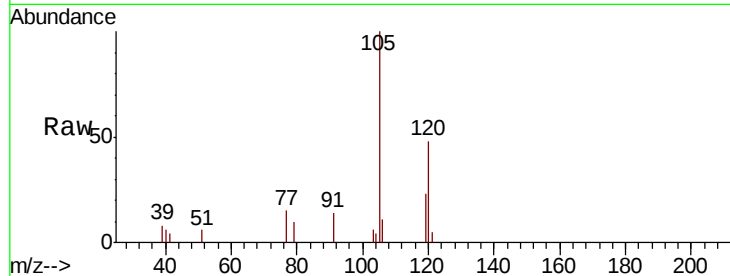




#84
 1,2,4-Trimethylbenzene
 Concen: 2.172 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007777.D
 Acq: 21 Dec 2018 06:56

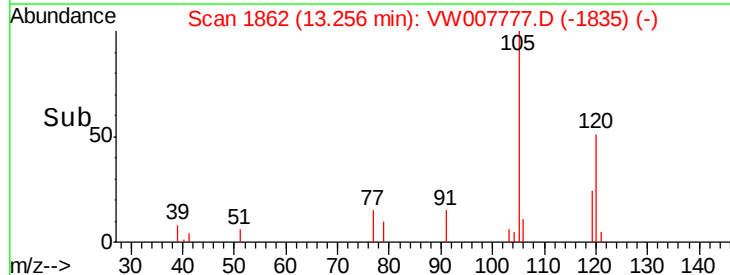
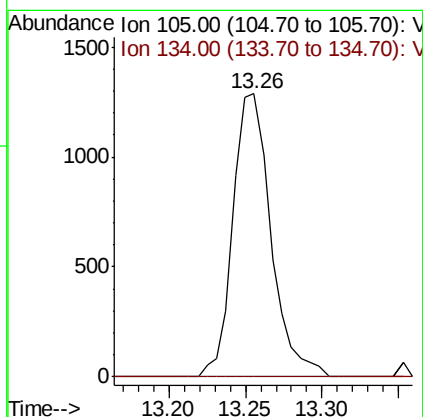
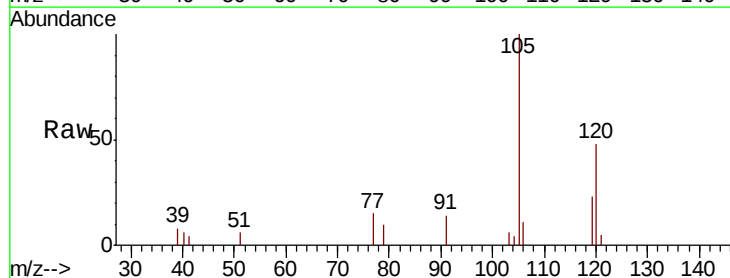
Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SS012-0612-01

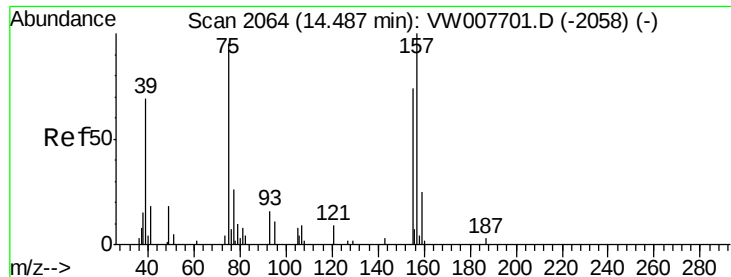
Tot Ion:105 Resp: 2219
 Ion Ratio Lower Upper
 105 100
 120 40.6 22.0 66.0



#85
 sec-Butylbenzene
 Concen: 1.812 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.13 min
 Lab File: VW007777.D
 Acq: 21 Dec 2018 06:56

Tgt Ion:105 Resp: 2219
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.371 ug/l

RT: 14.33 min Scan# 2039

Delta R.T. -0.15 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

Instrument :

MSVOA_W

ClientSampleId :

P001-SS012-0612-01

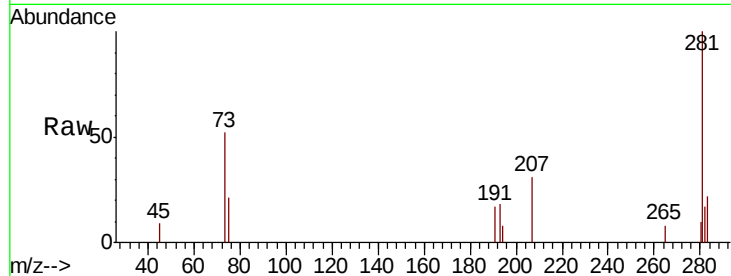
Tot Ion: 75 Resp: 158

Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

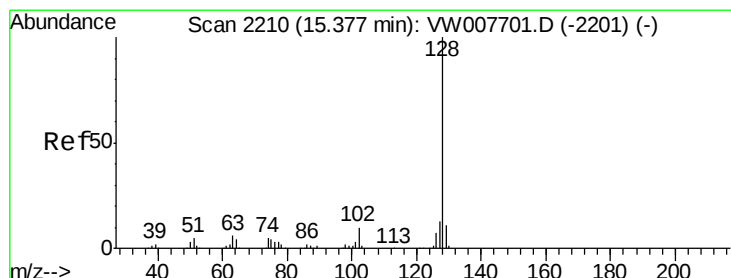
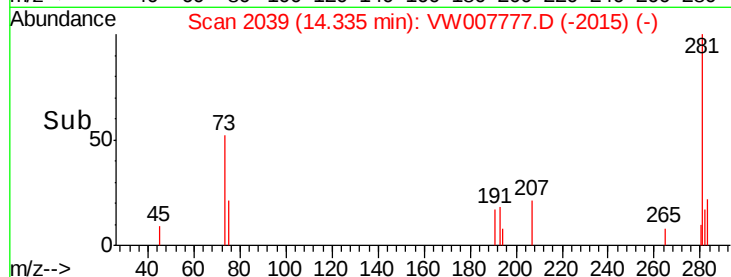
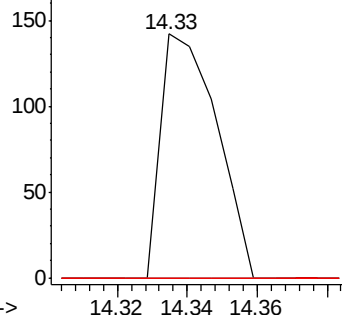
157 0.0 52.0 156.0#



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



#95

Naphthalene

Concen: 2.682 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW007777.D

Acq: 21 Dec 2018 06:56

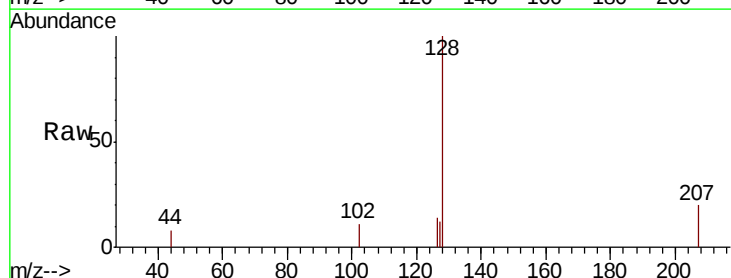
Tgt Ion:128 Resp: 1646

Ion Ratio Lower Upper

128 100

127 8.8 10.7 16.1#

129 5.1 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

