

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071018\  
 Data File : VW003865.D  
 Acq On : 11 Jul 2018 10:50  
 Operator : SY/AP  
 Sample : J3832-01  
 Misc : 5.26G/5ML/MSVOA W/SOIL  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TR-05-071018

Quant Time: Jul 11 11:17:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 05:07:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 185653   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 327227   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 305072   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 149979   | 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   | 132967   | 54.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.54% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 111811   | 48.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.64%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 406309   | 46.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.76%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 146014   | 46.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.14%  |          |

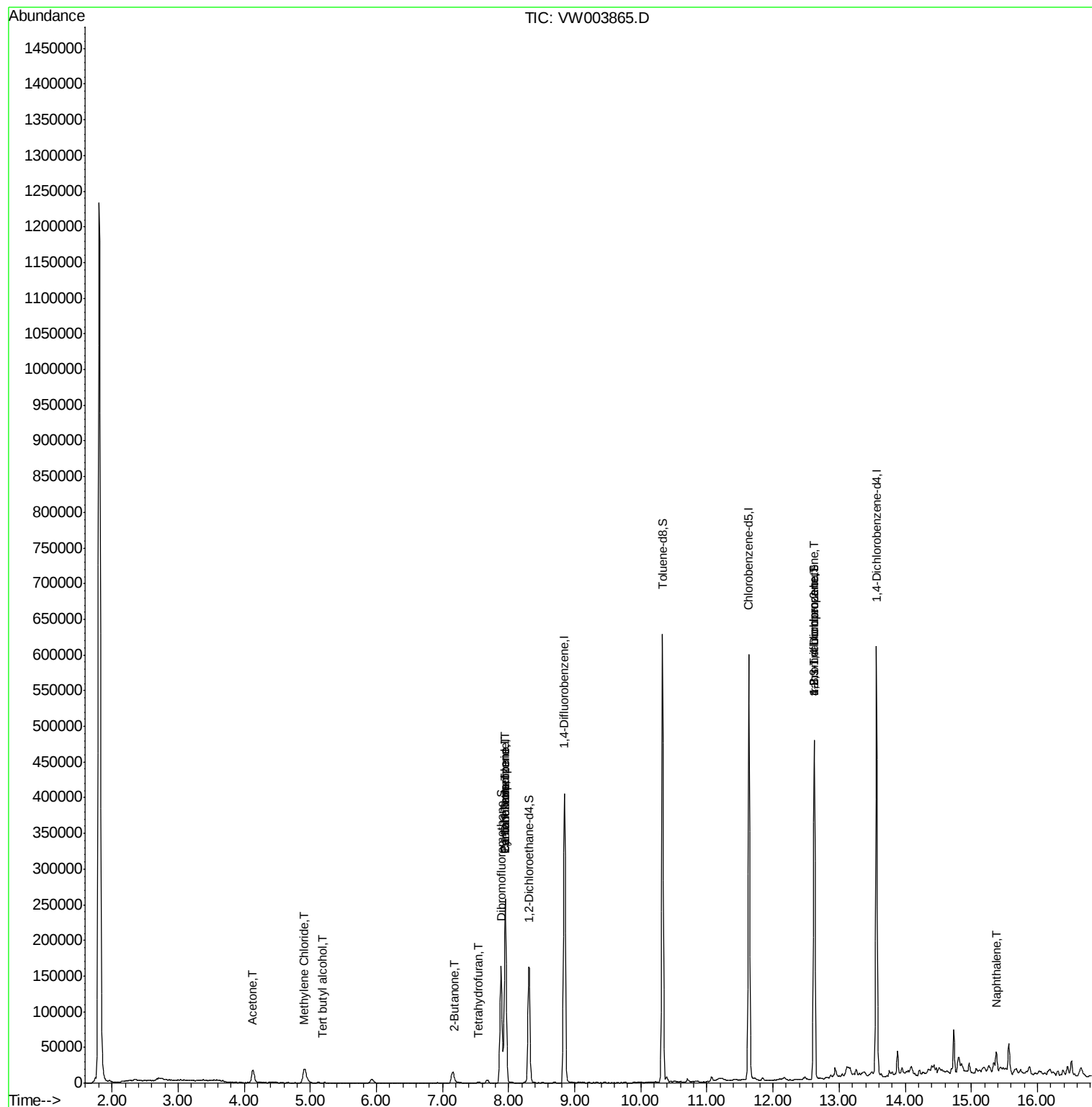
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 5.18  | 59   | 275      | 2.09   | ug/l # | 70     |
| 16) Acetone                    | 4.13  | 43   | 32359    | 76.82  | ug/l   | 97     |
| 20) Methylene Chloride         | 4.92  | 84   | 17116    | 4.33   | ug/l   | 96     |
| 25) 2-Butanone                 | 7.18  | 43   | 2811     | 4.26   | ug/l # | 82     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 638      | 1.50   | ug/l # | 63     |
| 31) Cyclohexane                | 7.95  | 56   | 5038     | 1.42   | ug/l # | 22     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16496    | 4.75   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 20148    | 6.10   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 78270    | 53.14  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 78270    | 130.00 | ug/l # | 8      |
| 95) Naphthalene                | 15.38 | 128  | 23302    | 4.19   | ug/l # | 94     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 07 05:07:25 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampleId :

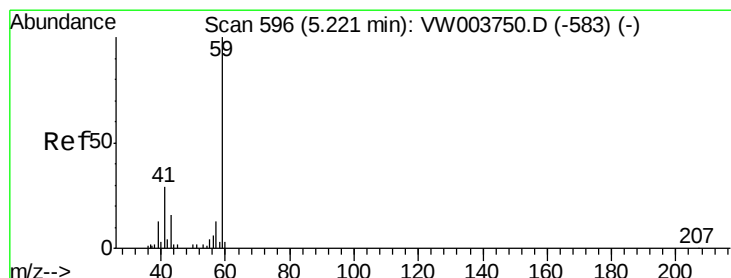
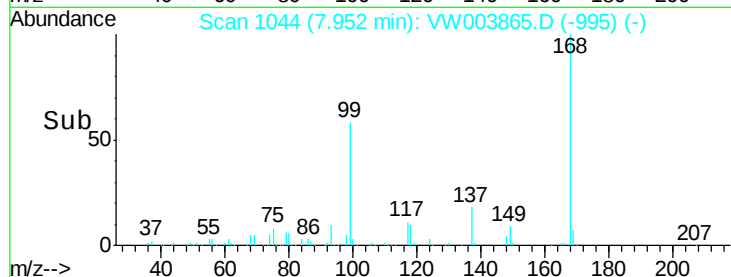
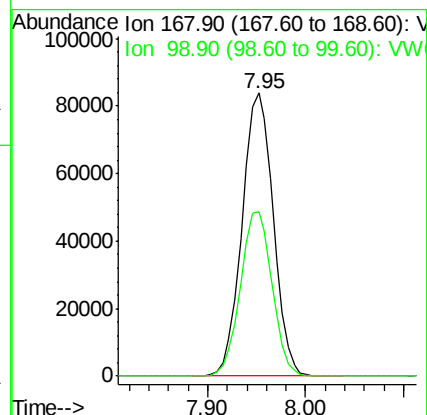
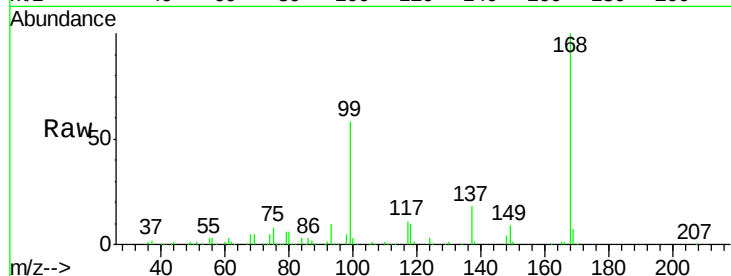
TR-05-071018

Tot Ion:168 Resp: 185653

Ion Ratio Lower Upper

168 100

99 57.9 45.0 67.6



#11

Tert butyl alcohol

Concen: 2.09 ug/l

RT: 5.18 min Scan# 590

Delta R.T. -0.04 min

Lab File: VW003865.D

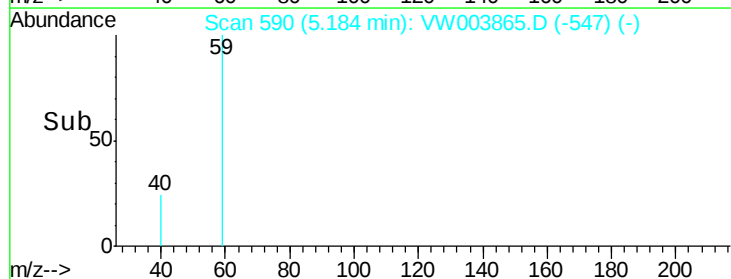
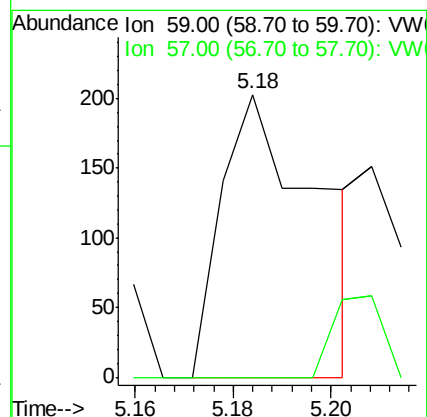
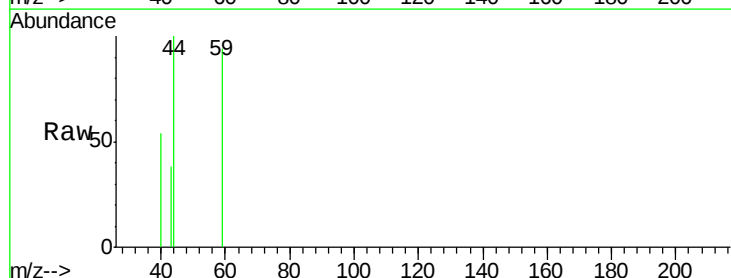
Acq: 11 Jul 2018 10:50

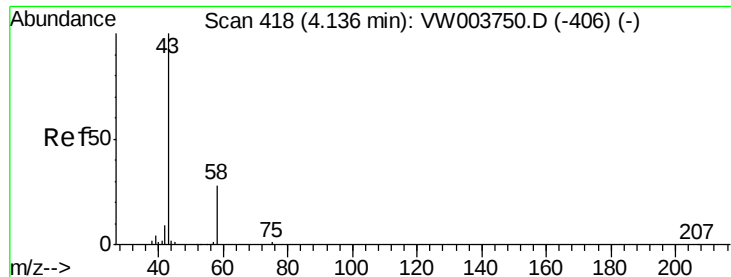
Tgt Ion: 59 Resp: 275

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#





#16

Acetone

Concen: 76.82 ug/l

RT: 4.13 min Scan# 417

Delta R.T. -0.01 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampleId :

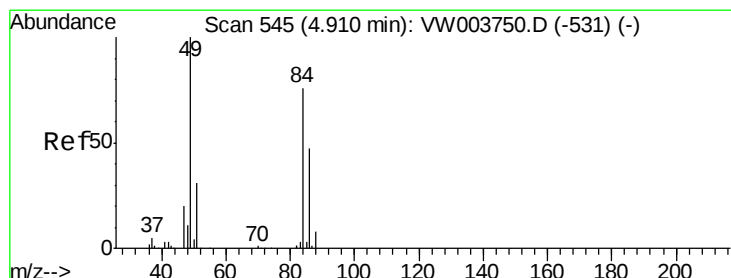
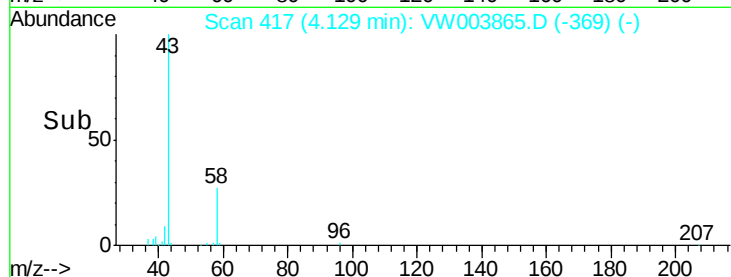
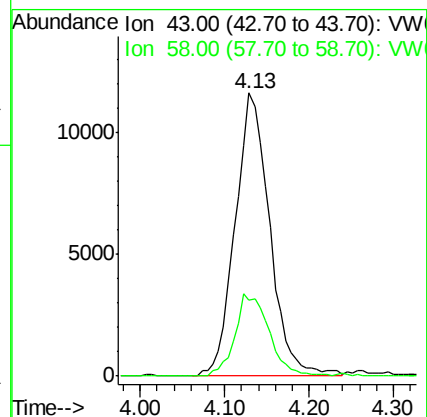
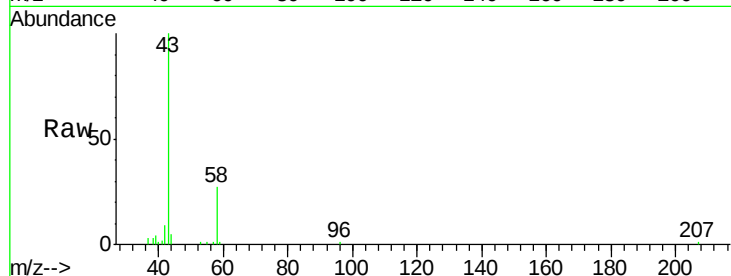
TR-05-071018

Tot Ion: 43 Resp: 32359

Ion Ratio Lower Upper

43 100

58 26.6 22.6 34.0



#20

Methylene Chloride

Concen: 4.33 ug/l

RT: 4.92 min Scan# 546

Delta R.T. 0.01 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Tgt Ion: 84 Resp: 17116

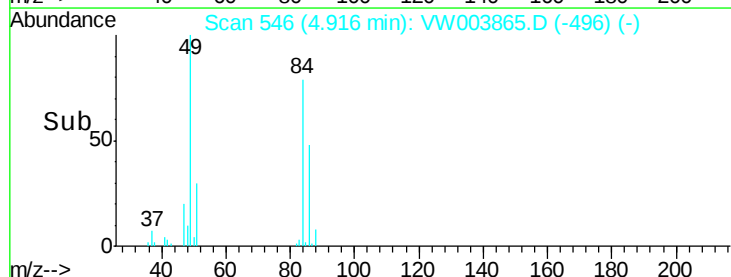
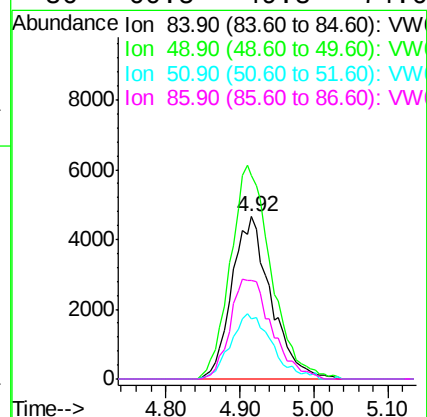
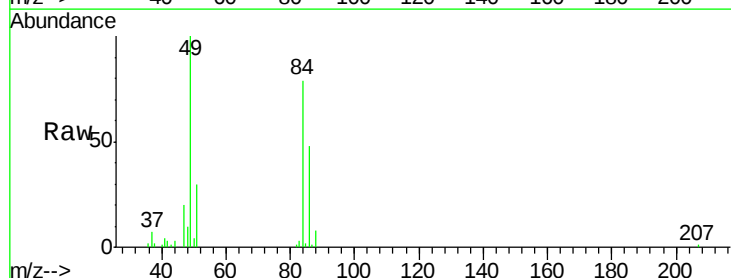
Ion Ratio Lower Upper

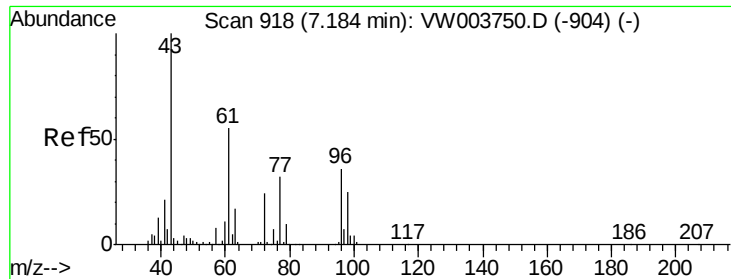
84 100

49 125.8 105.1 157.7

51 37.4 32.5 48.7

86 60.5 49.8 74.6





#25

2-Butanone

Concen: 4.26 ug/l

RT: 7.18 min Scan# 918

Delta R.T. -0.00 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampleId :

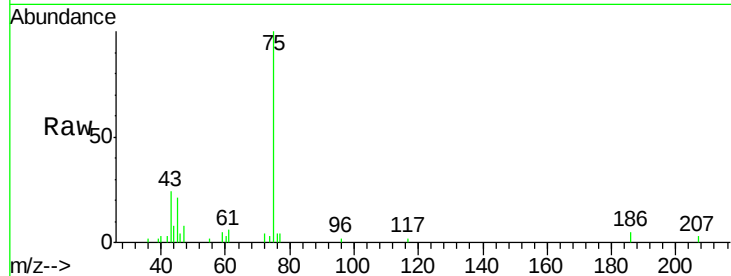
TR-05-071018

Tot Ion: 43 Resp: 2811

Ion Ratio Lower Upper

43 100

72 15.1 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.18

800

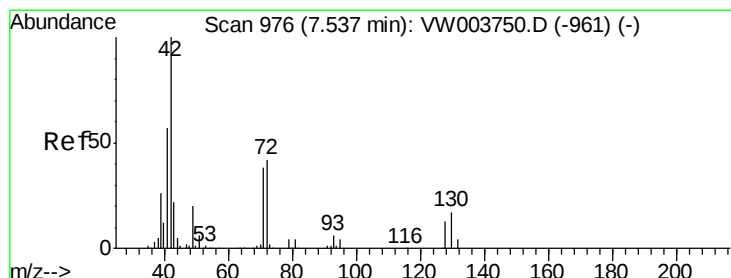
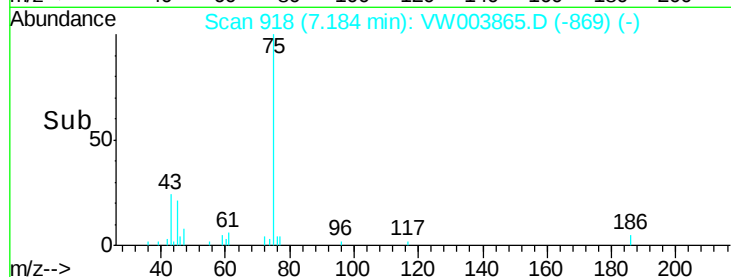
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 1.50 ug/l

RT: 7.54 min Scan# 977

Delta R.T. 0.01 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

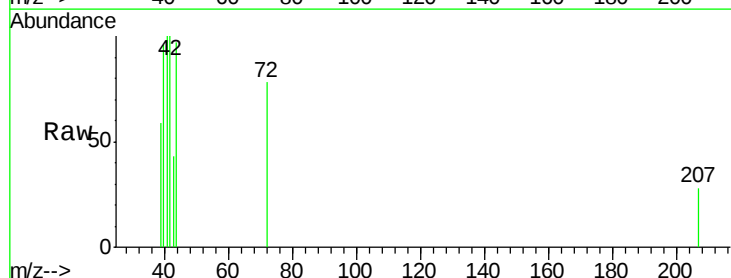
Tgt Ion: 42 Resp: 638

Ion Ratio Lower Upper

42 100

72 32.1 31.8 47.8

71 0.0 30.3 45.5#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

250

200

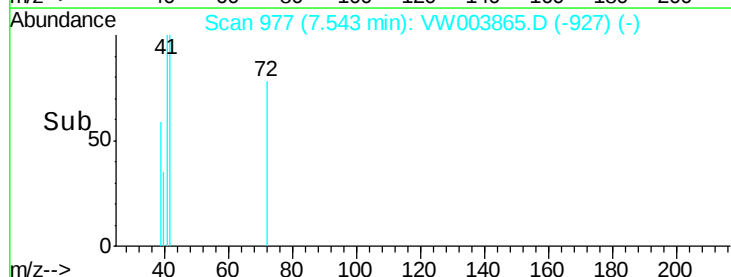
150

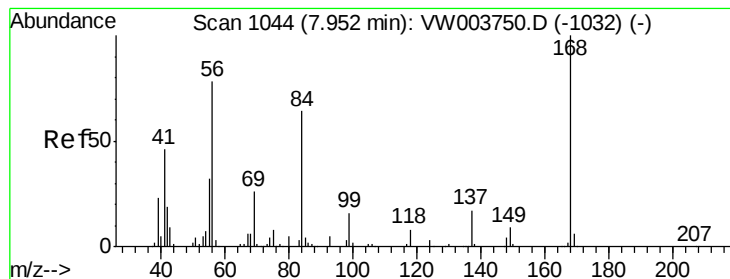
100

50

0

Time-->





#31

Cyclohexane

Concen: 1.42 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampled :

TR-05-071018

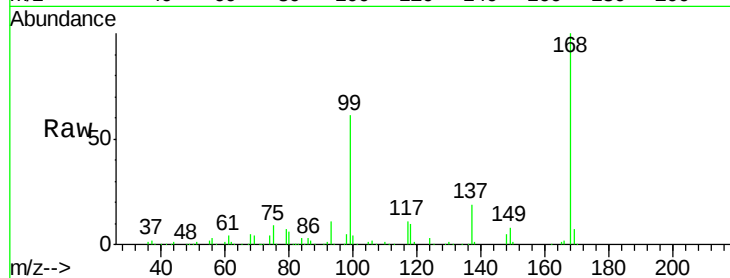
Tot Ion: 56 Resp: 5038

Ion Ratio Lower Upper

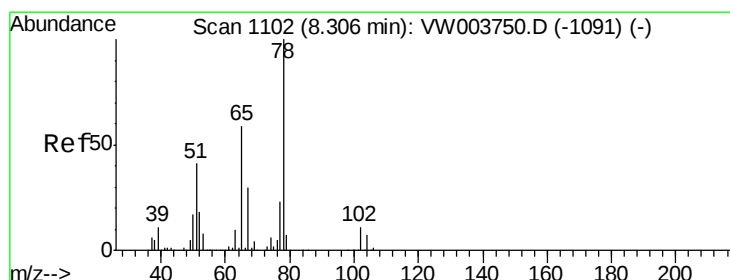
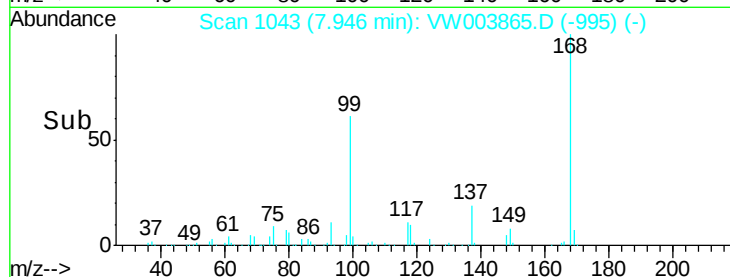
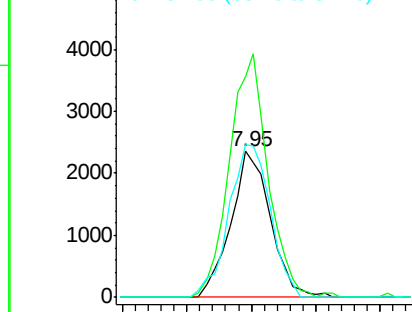
56 100

69 151.0 26.2 39.4#

84 104.2 65.5 98.3#



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: 54.77 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VW003865.D

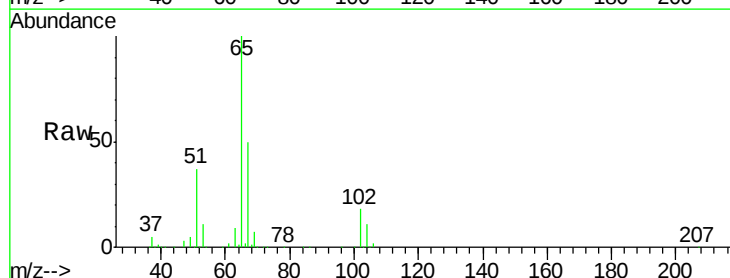
Acq: 11 Jul 2018 10:50

Tgt Ion: 65 Resp: 132967

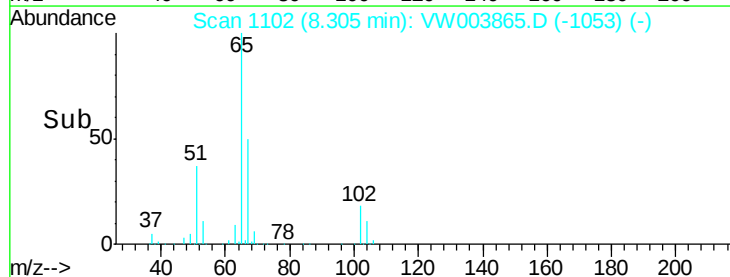
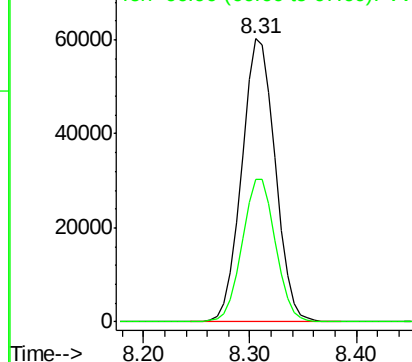
Ion Ratio Lower Upper

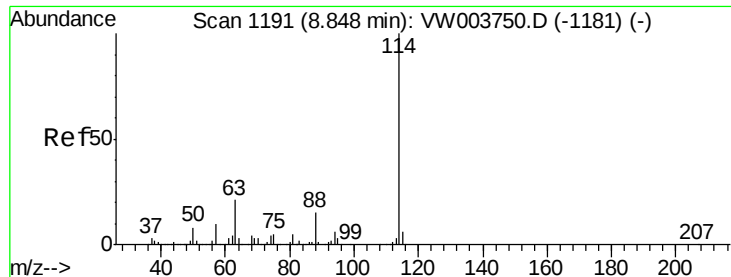
65 100

67 50.5 0.0 103.8



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. -0.00 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampleId :

TR-05-071018

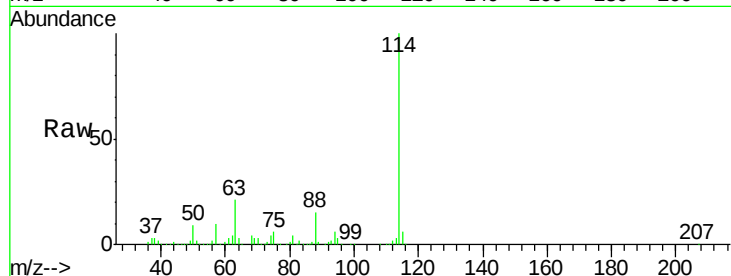
Tot Ion:114 Resp: 327227

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.8

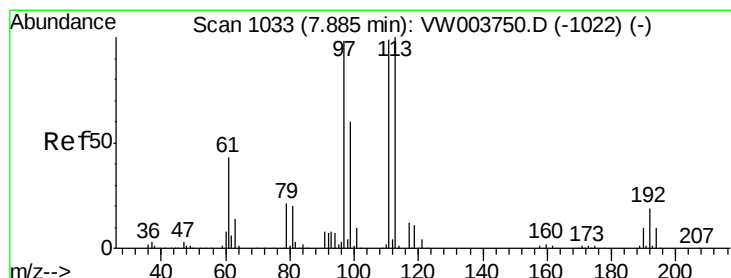
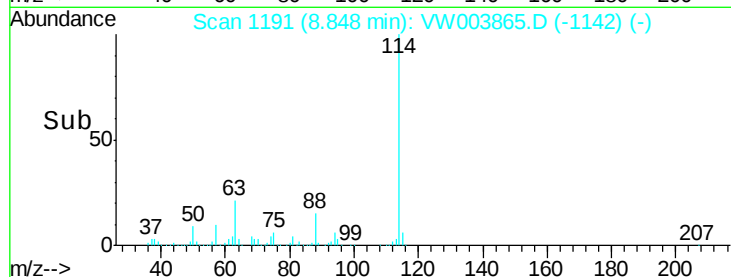
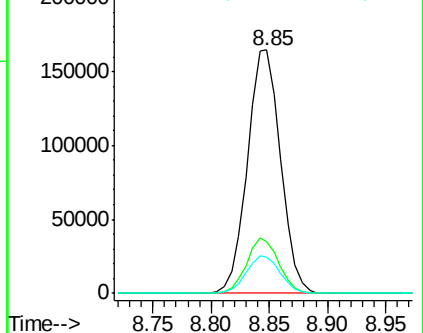
88 15.0 0.0 30.2



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: 48.82 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. -0.00 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

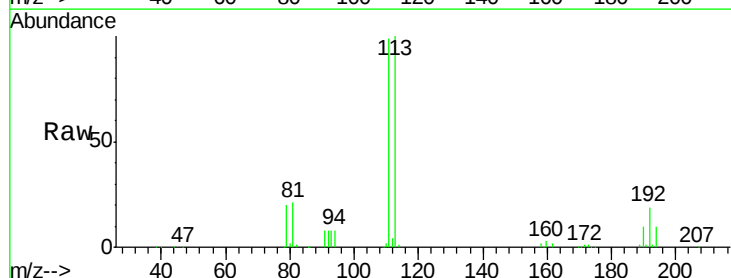
Tgt Ion:113 Resp: 111811

Ion Ratio Lower Upper

113 100

111 102.5 81.7 122.5

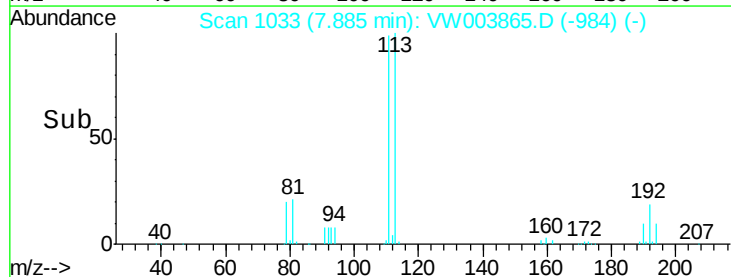
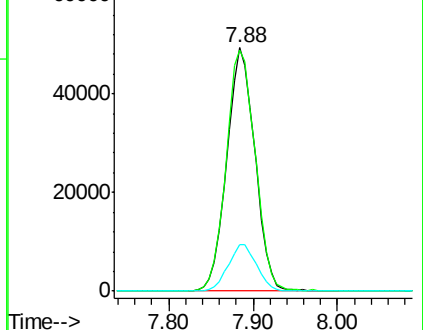
192 19.4 15.8 23.8

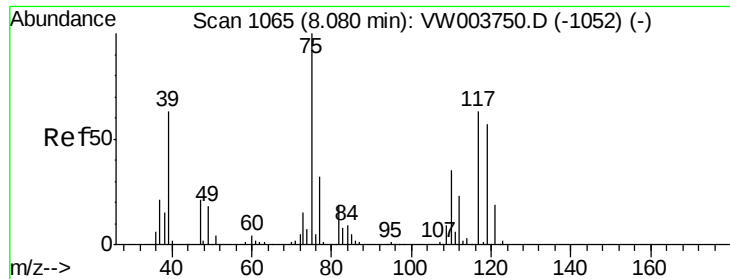


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.75 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.13 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampleId :

TR-05-071018

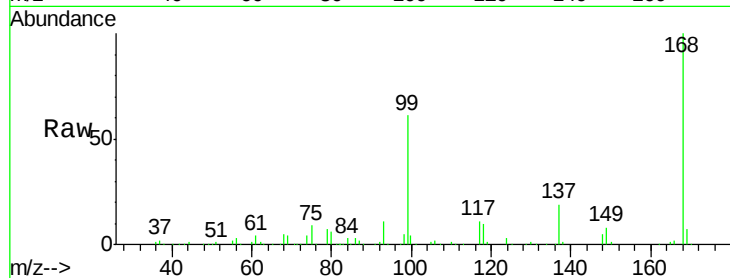
Tot Ion: 75 Resp: 16496

Ion Ratio Lower Upper

75 100

110 8.6 16.9 50.6#

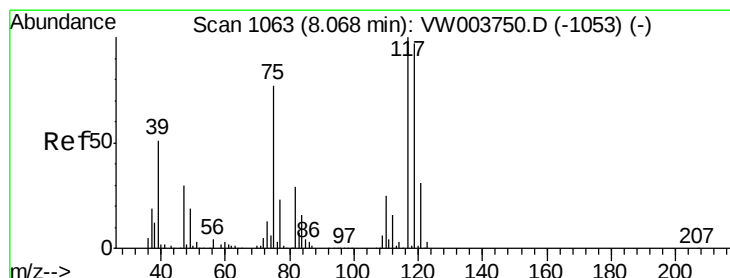
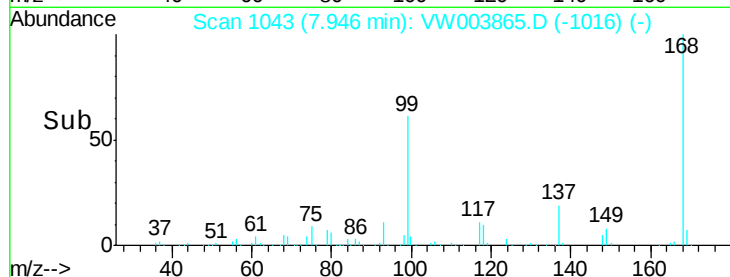
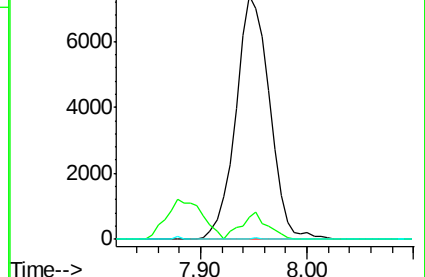
77 0.2 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 6.10 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

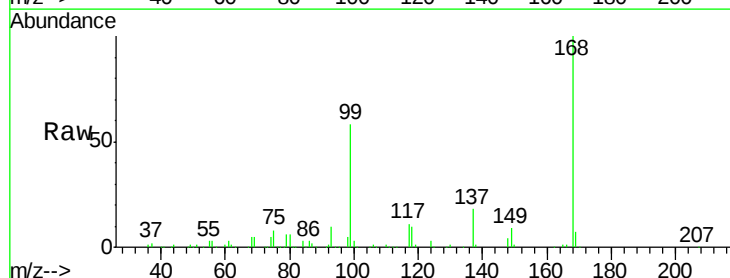
Tgt Ion: 117 Resp: 20148

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.2#

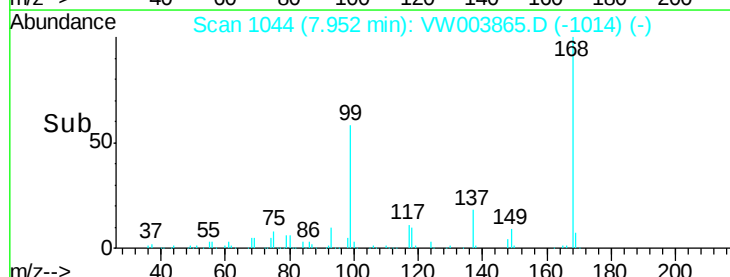
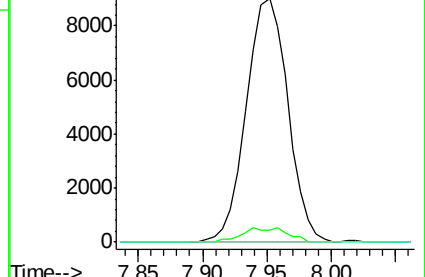
121 0.0 24.6 37.0#

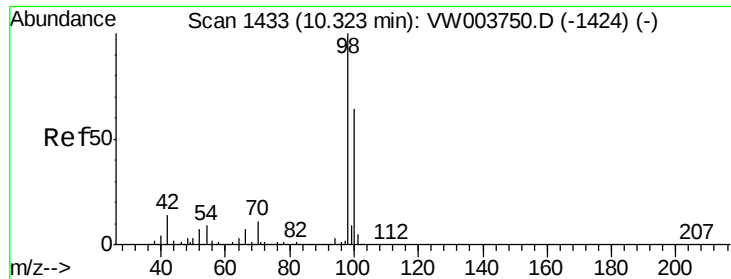


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 46.38 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampled :

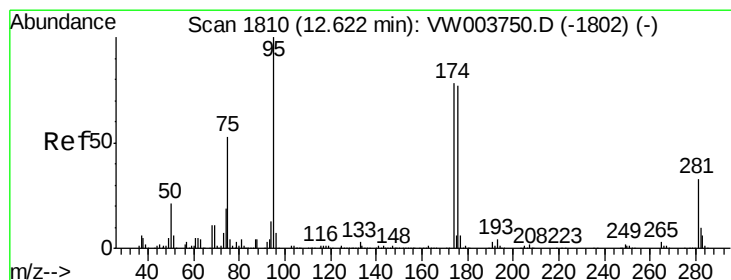
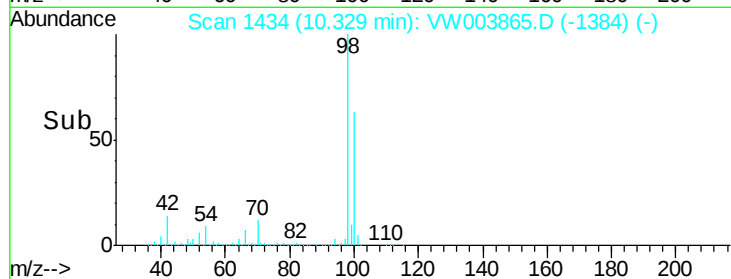
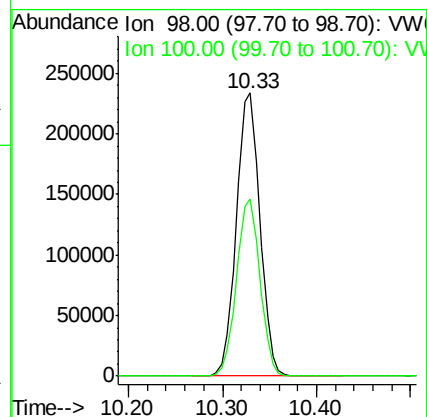
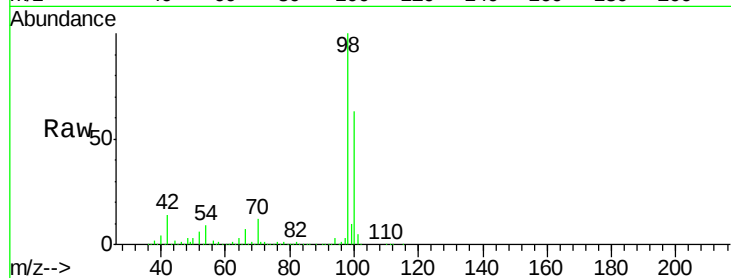
TR-05-071018

Tot Ion: 98 Resp: 406309

Ion Ratio Lower Upper

98 100

100 62.2 50.8 76.2



#62

4-Bromofluorobenzene

Concen: 46.07 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

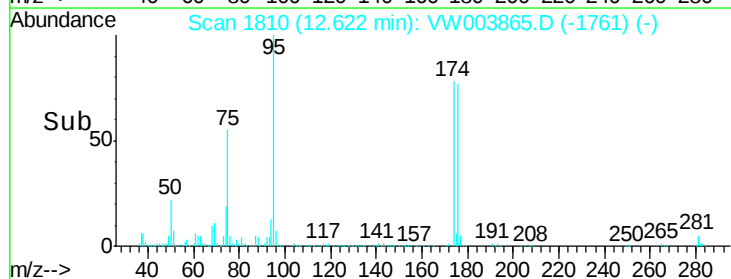
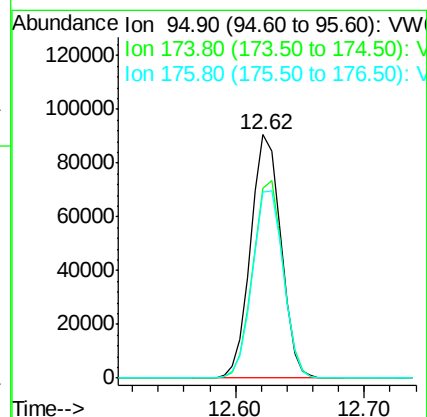
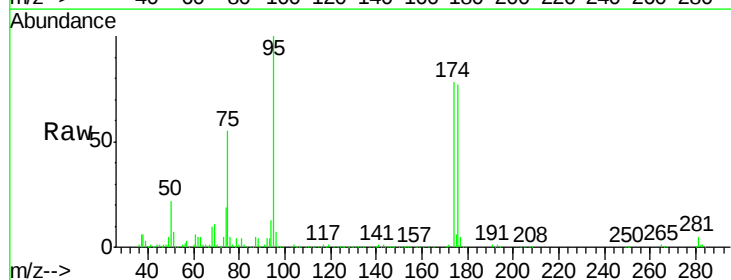
Tgt Ion: 95 Resp: 146014

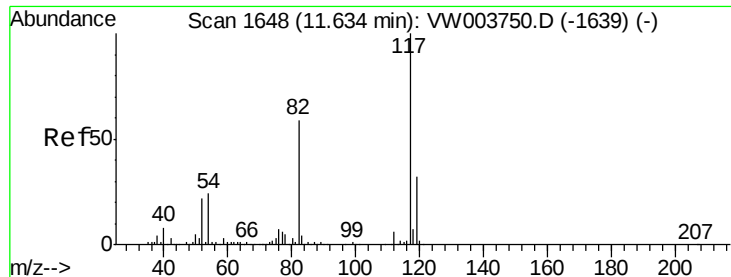
Ion Ratio Lower Upper

95 100

174 81.3 0.0 163.4

176 78.8 0.0 156.8

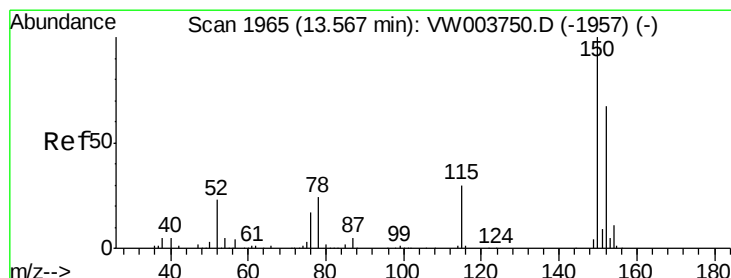
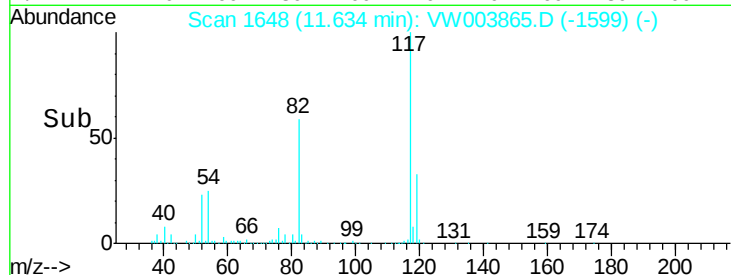
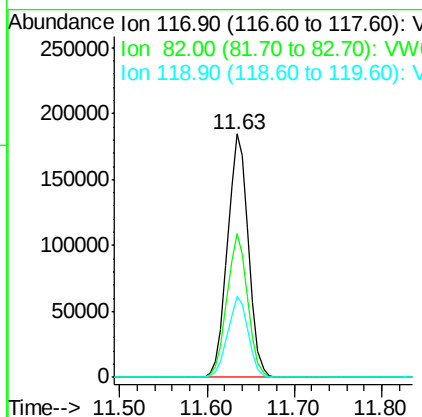
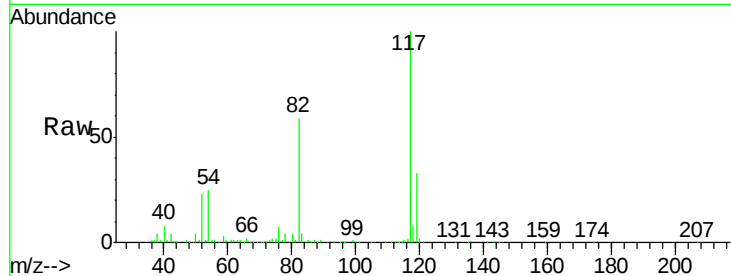




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003865.D  
Acq: 11 Jul 2018 10:50

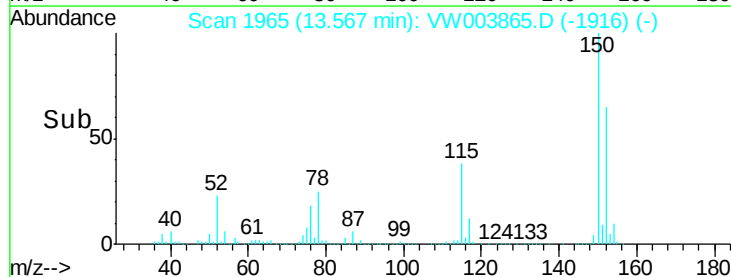
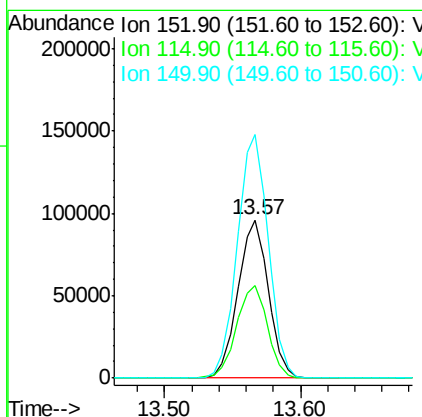
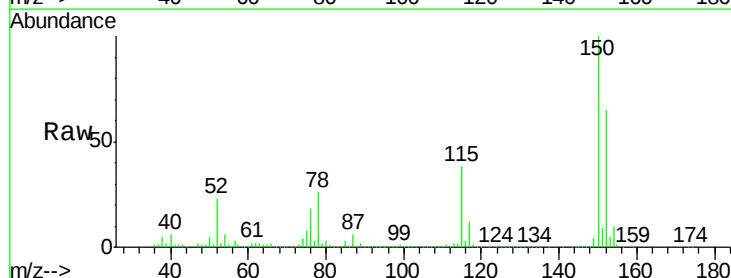
Instrument :  
MSVOA\_W  
ClientSampleId :  
TR-05-071018

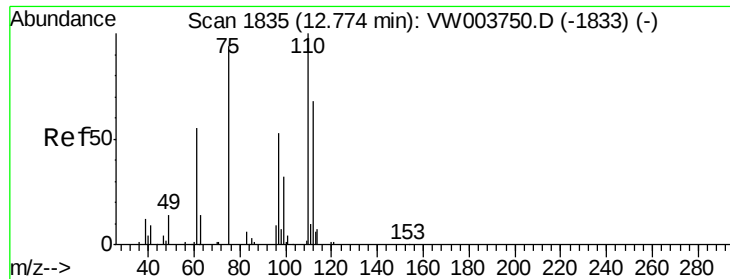
Tot Ion:117 Resp: 305072  
Ion Ratio Lower Upper  
117 100  
82 59.2 46.9 70.3  
119 33.1 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW003865.D  
Acq: 11 Jul 2018 10:50

Tgt Ion:152 Resp: 149979  
Ion Ratio Lower Upper  
152 100  
115 59.4 28.9 86.8  
150 156.1 0.0 342.4





#76

1,2,3-Trichloropropane

Concen: 53.14 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampled :

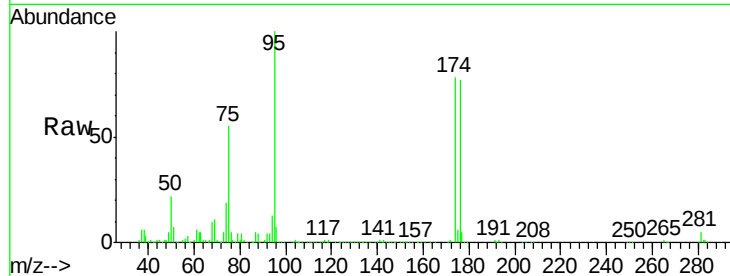
TR-05-071018

Tot Ion: 75 Resp: 78270

Ion Ratio Lower Upper

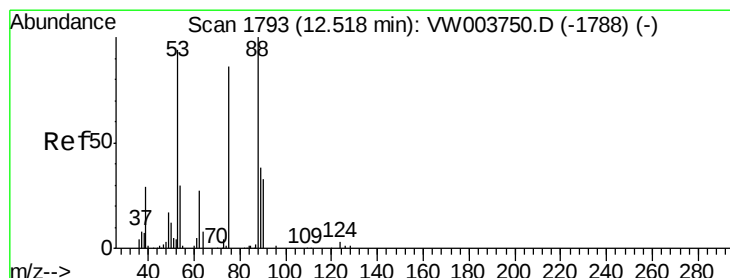
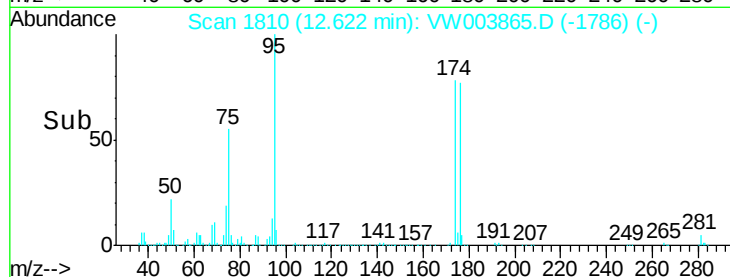
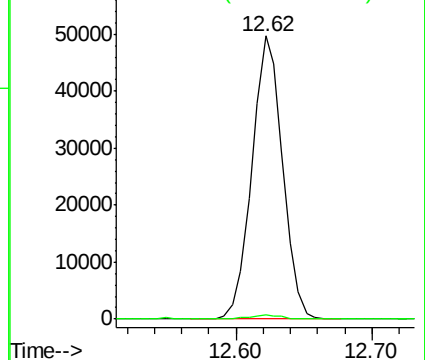
75 100

77 1.4 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: 130.00 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

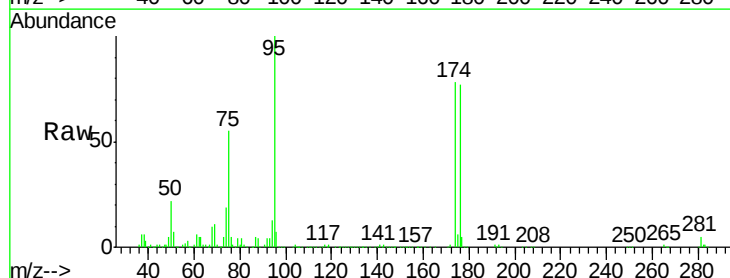
Tgt Ion: 75 Resp: 78270

Ion Ratio Lower Upper

75 100

53 0.5 85.0 127.6#

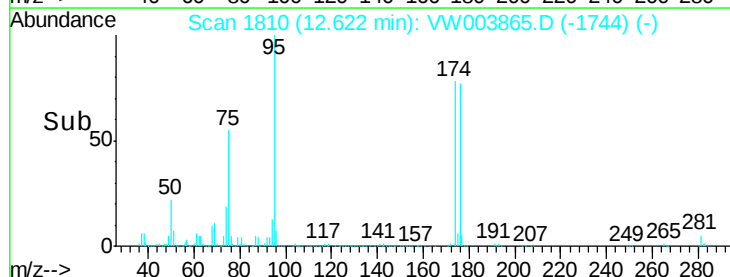
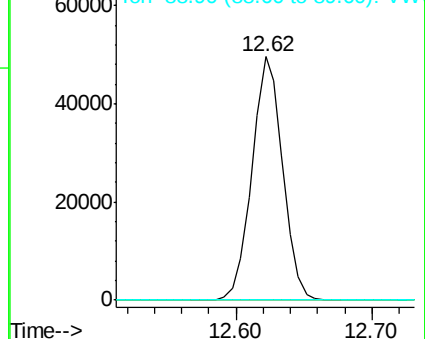
89 0.1 36.3 54.5#

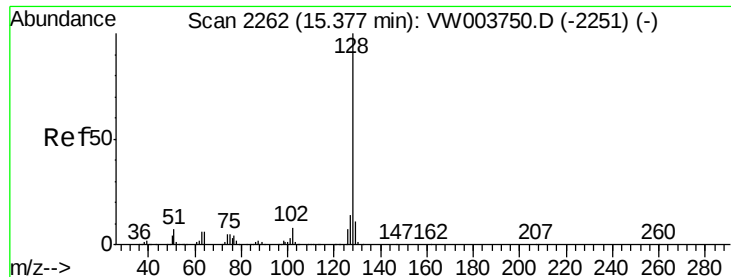


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#95

Naphthalene

Concen: 4.19 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. -0.00 min

Lab File: VW003865.D

Acq: 11 Jul 2018 10:50

Instrument :

MSVOA\_W

ClientSampleId :

TR-05-071018

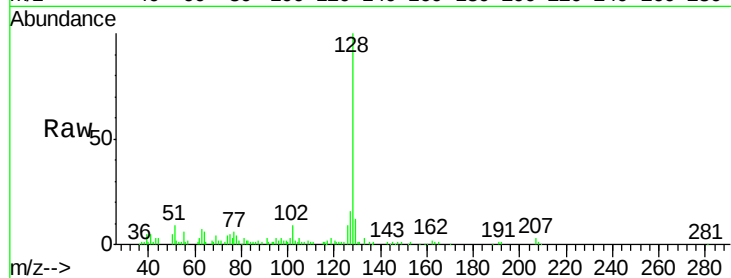
Tot Ion:128 Resp: 23302

Ion Ratio Lower Upper

128 100

127 17.2 10.8 16.2#

129 11.5 8.6 13.0



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

