

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
 Data File : VW003936.D  
 Acq On : 14 Jul 2018 00:30  
 Operator : VA/AP  
 Sample : J3821-03  
 Misc : 6.11G/5ML/MSVOA W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 HR-05-071218-B

Quant Time: Jul 14 01:35:17 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  | 184396   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 321553   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 252685   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 93160    | 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   | 128046   | 53.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.20% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 101038   | 44.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.80%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 346448   | 40.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.48%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 99746    | 32.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 64.04%  |          |

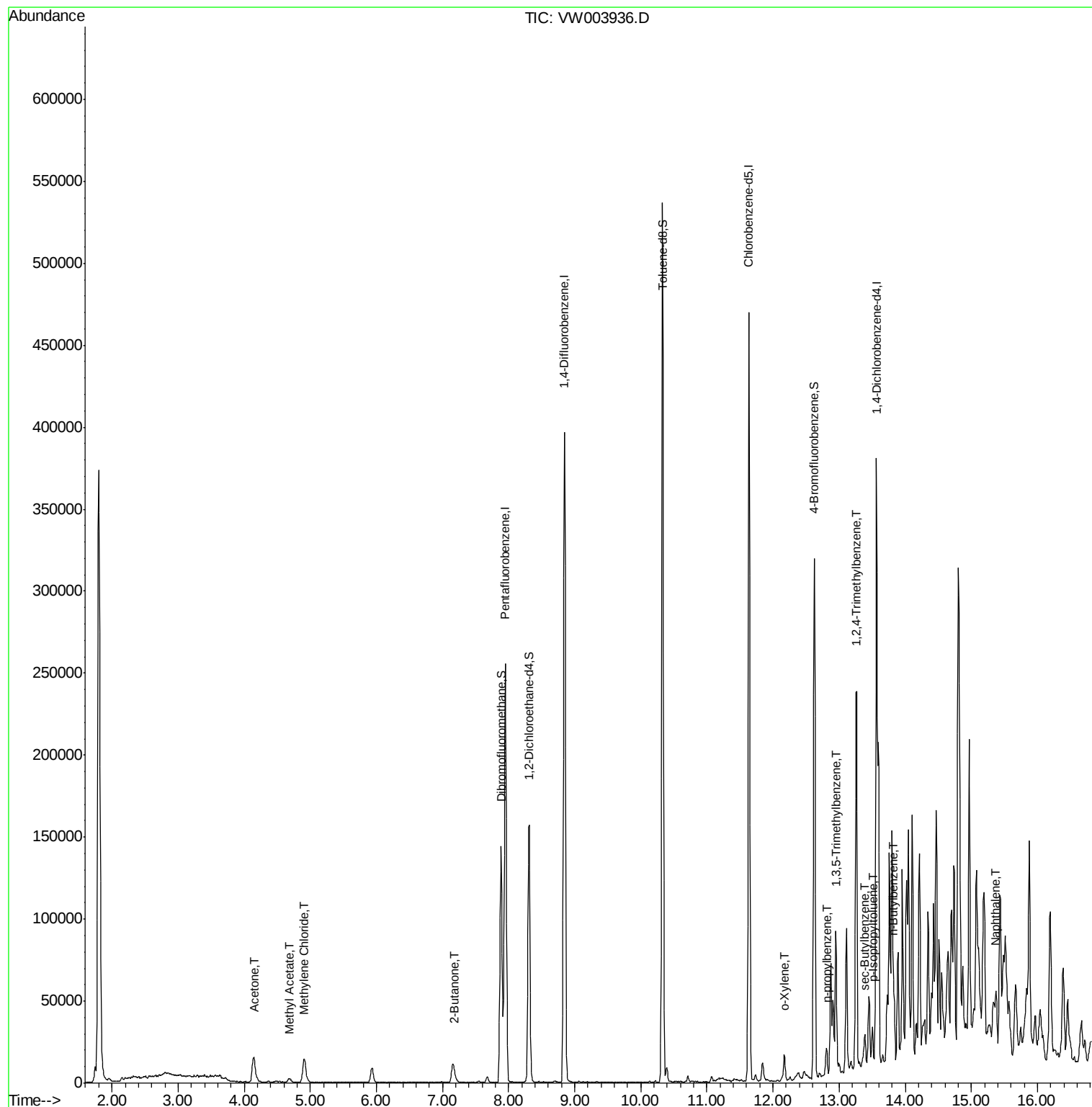
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone                | 4.15  | 43   | 31218    | 74.62 | ug/l   | 96     |
| 18) Methyl Acetate         | 4.68  | 43   | 4483     | 3.80  | ug/l # | 54     |
| 20) Methylene Chloride     | 4.91  | 84   | 11437    | 1.34  | ug/l   | 95     |
| 25) 2-Butanone             | 7.18  | 43   | 4499     | 6.87  | ug/l   | 93     |
| 69) o-Xylene               | 12.17 | 106  | 3590     | 1.07  | ug/l   | 93     |
| 78) n-propylbenzene        | 12.81 | 91   | 12723    | 1.61  | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 12.95 | 105  | 37008    | 6.81  | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 13.26 | 105  | 125157   | 22.16 | ug/l   | 97     |
| 85) sec-Butylbenzene       | 13.39 | 105  | 10591    | 1.58  | ug/l # | 78     |
| 86) p-Isopropyltoluene     | 13.51 | 119  | 10515    | 1.79  | ug/l   | 97     |
| 89) n-Butylbenzene         | 13.83 | 91   | 19933    | 3.46  | ug/l # | 79     |
| 95) Naphthalene            | 15.38 | 128  | 14571    | 4.22  | ug/l # | 94     |

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

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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: VW003936.D

Acq: 14 Jul 2018 00:30

Instrument :

MSVOA\_W

ClientSampleId :

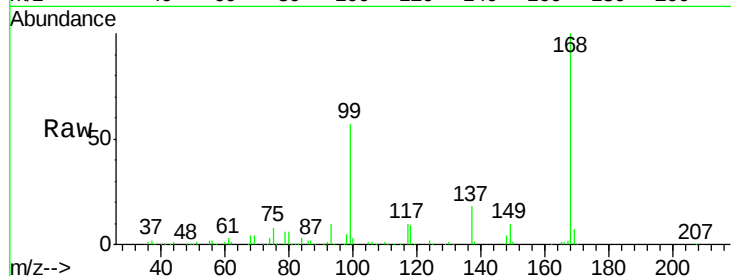
HR-05-071218-B

Tot Ion:168 Resp: 184396

Ion Ratio Lower Upper

168 100

99 57.4 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

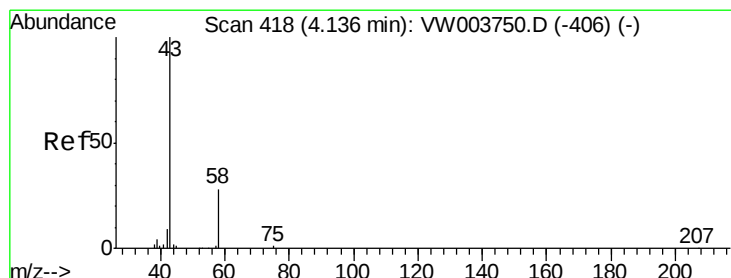
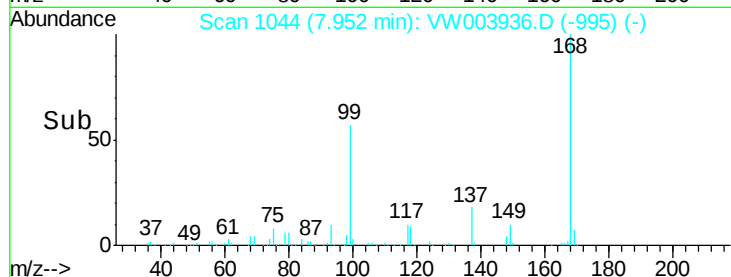
40000

20000

0

7.90 8.00 8.10

Time-->



#16

Acetone

Concen: 74.62 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.01 min

Lab File: VW003936.D

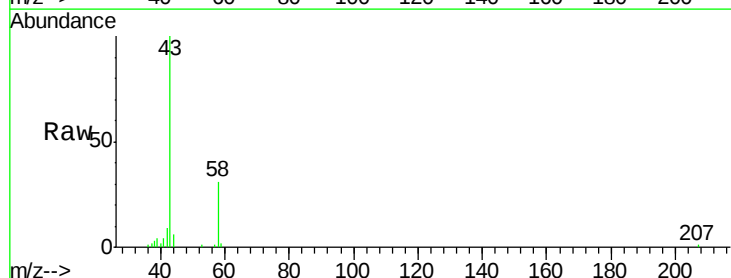
Acq: 14 Jul 2018 00:30

Tgt Ion: 43 Resp: 31218

Ion Ratio Lower Upper

43 100

58 30.5 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.15

10000

8000

6000

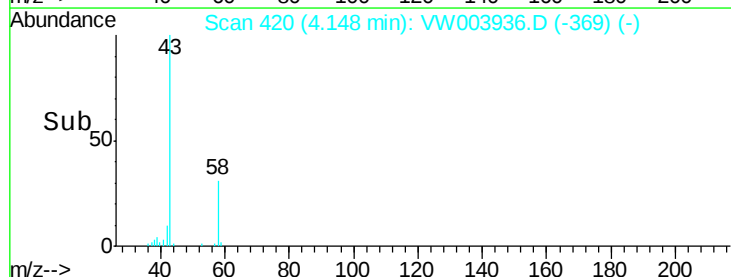
4000

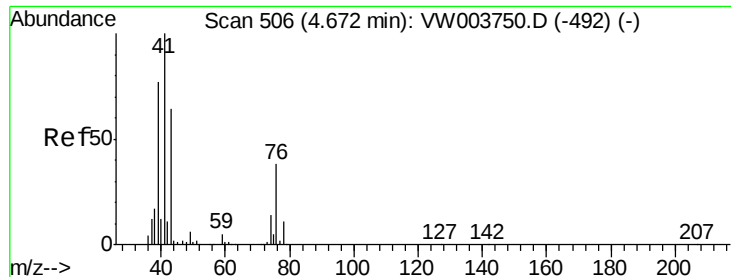
2000

0

4.00 4.10 4.20 4.30

Time-->

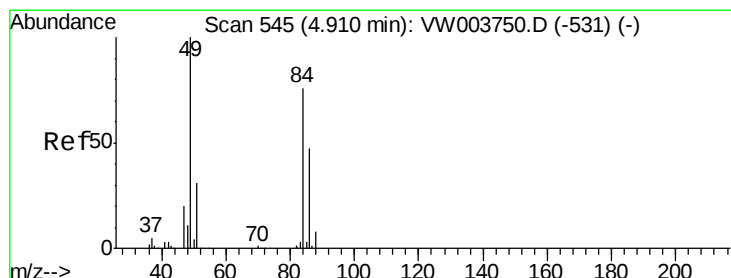
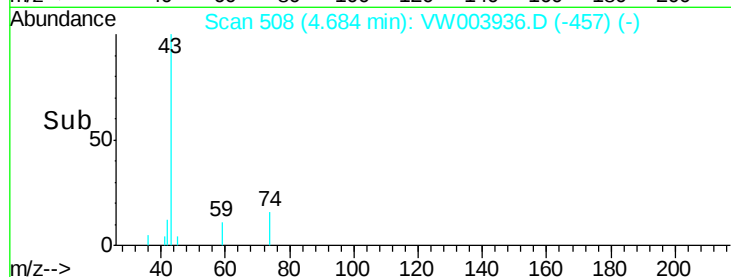
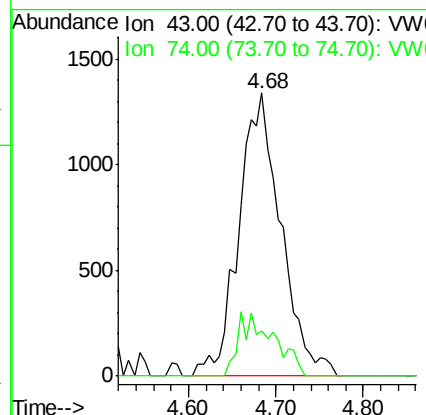
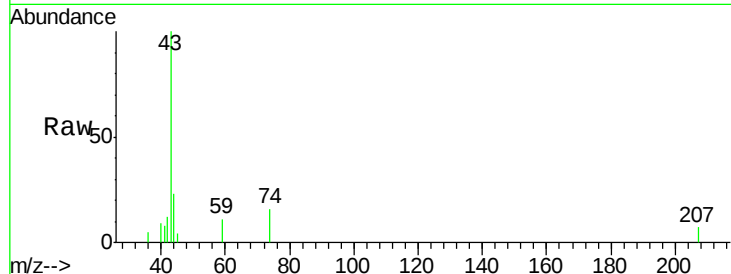




#18  
Methvl Acetate  
Concen: 3.80 ug/l  
RT: 4.68 min Scan# 508  
Delta R.T. 0.01 min  
Lab File: VW003936.D  
Acq: 14 Jul 2018 00:30

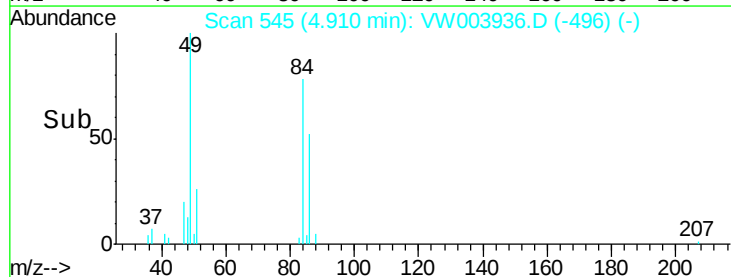
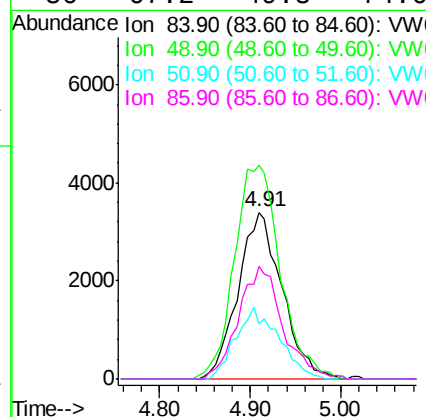
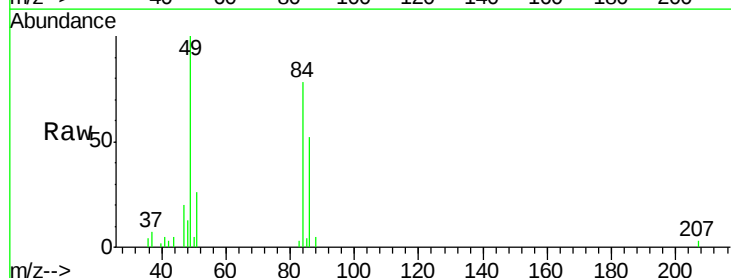
Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-B

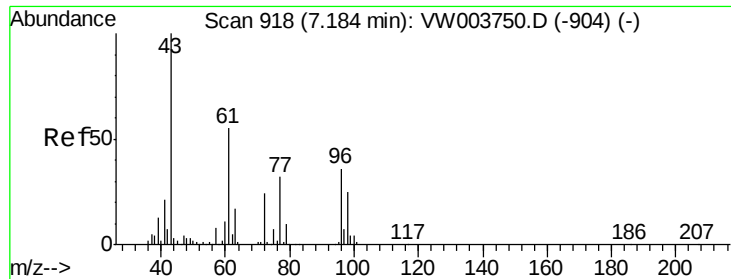
Tot Ion: 43 Resp: 4483  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.3 25.9#



#20  
Methylene Chloride  
Concen: 1.34 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW003936.D  
Acq: 14 Jul 2018 00:30

Tgt Ion: 84 Resp: 11437  
Ion Ratio Lower Upper  
84 100  
49 128.1 105.1 157.7  
51 33.2 32.5 48.7  
86 67.2 49.8 74.6





#25

2-Butanone

Concen: 6.87 ug/l

RT: 7.18 min Scan# 918

Delta R.T. -0.00 min

Lab File: VW003936.D

Acq: 14 Jul 2018 00:30

Instrument :

MSVOA\_W

ClientSampleId :

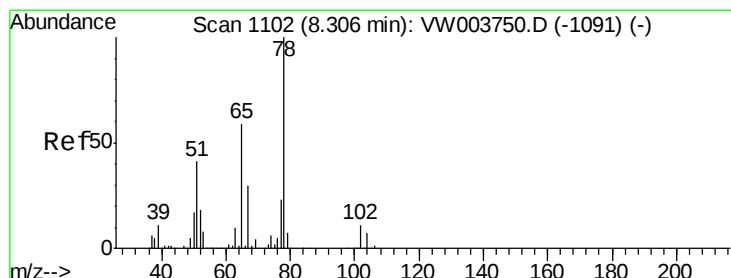
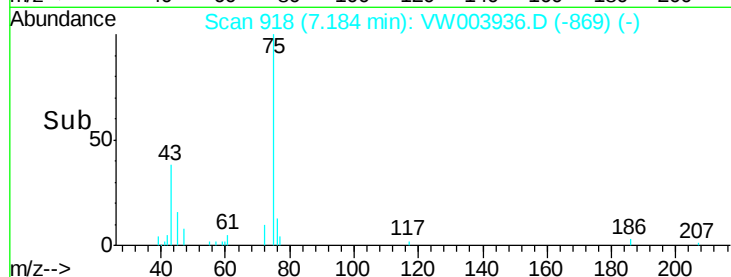
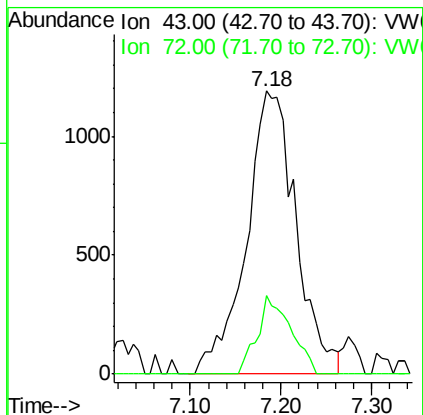
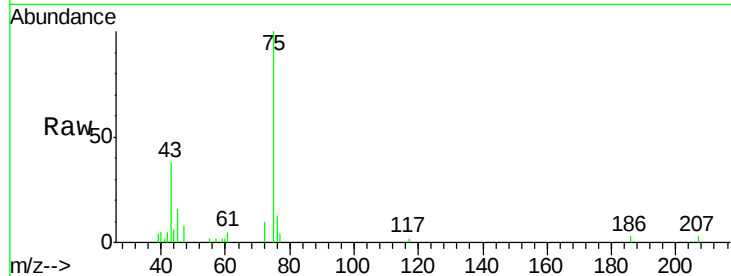
HR-05-071218-B

Tot Ion: 43 Resp: 4499

Ion Ratio Lower Upper

43 100

72 27.6 19.4 29.2



#33

1,2-Dichloroethane-d4

Concen: 53.10 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW003936.D

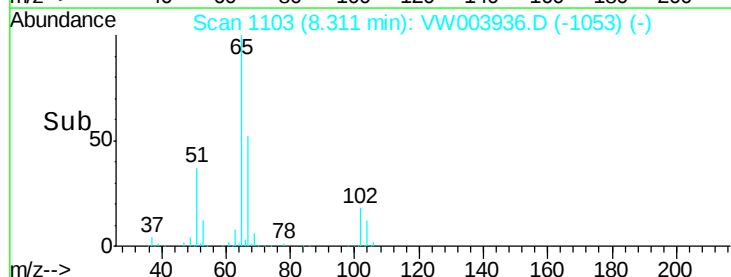
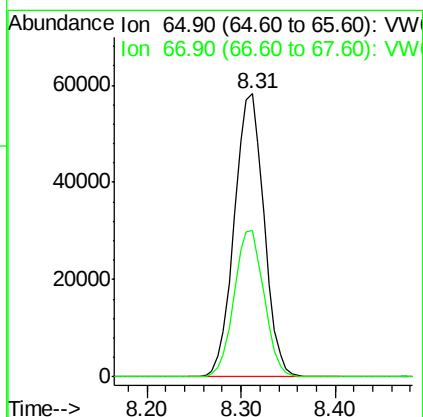
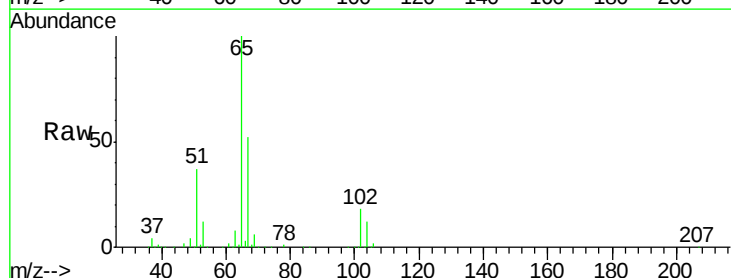
Acq: 14 Jul 2018 00:30

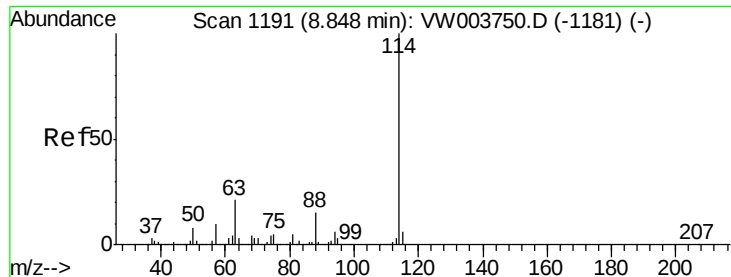
Tgt Ion: 65 Resp: 128046

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.8

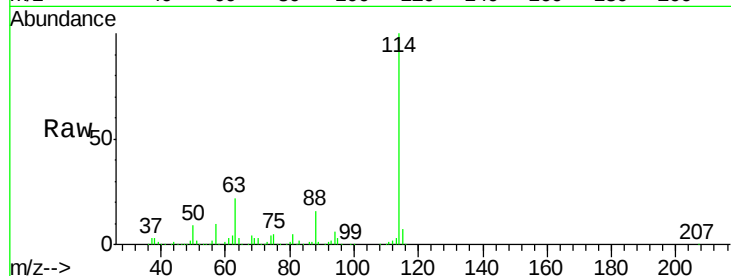




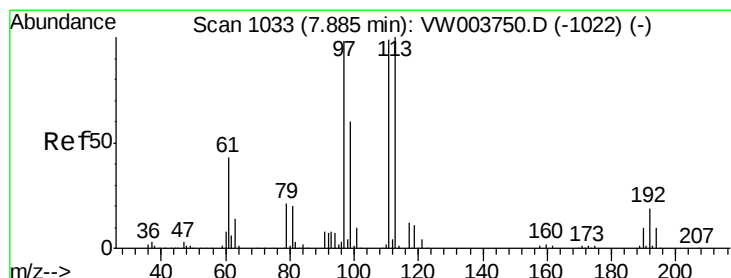
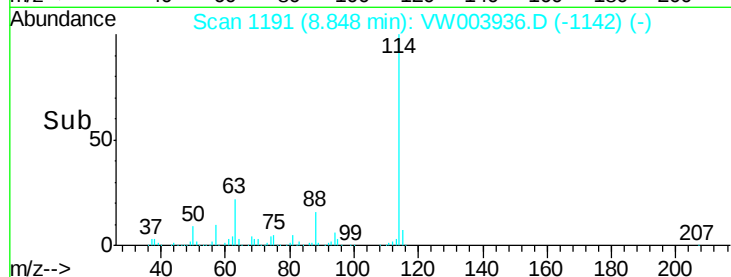
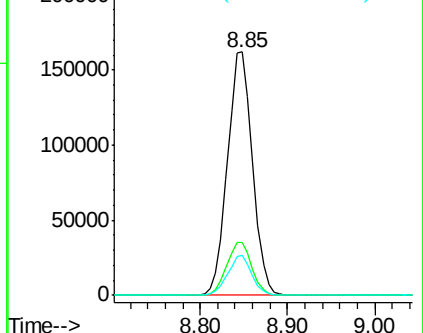
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW003936.D  
 Acq: 14 Jul 2018 00:30

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 HR-05-071218-B

Tot Ion:114 Resp: 321553  
 Ion Ratio Lower Upper  
 114 100  
 63 21.8 0.0 41.8  
 88 16.4 0.0 30.2

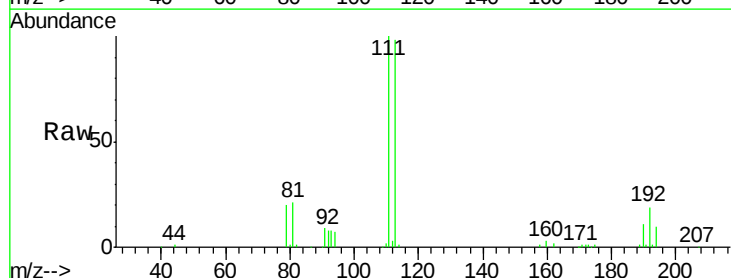


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

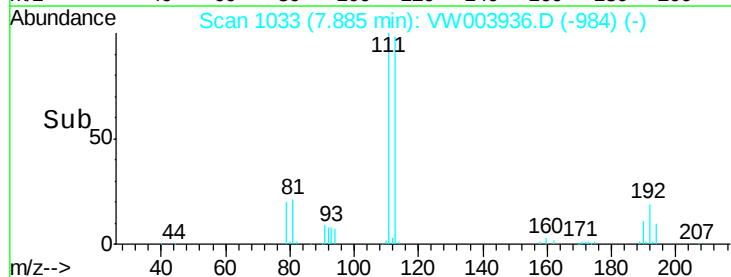
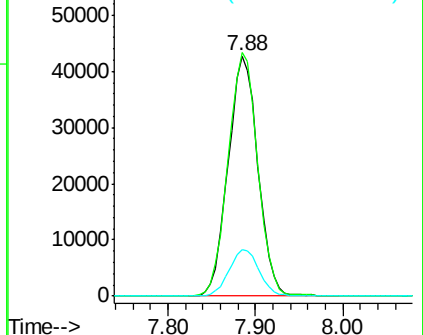


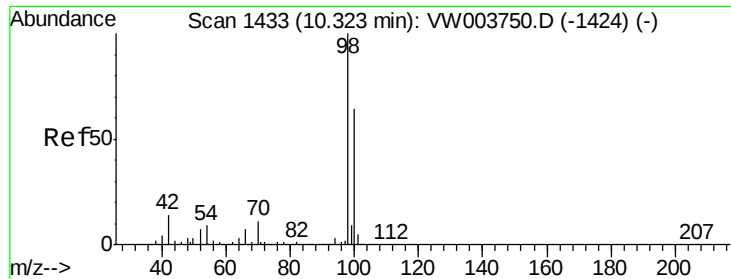
#35  
 Dibromofluoromethane  
 Concen: 44.90 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003936.D  
 Acq: 14 Jul 2018 00:30

Tgt Ion:113 Resp: 101038  
 Ion Ratio Lower Upper  
 113 100  
 111 101.4 81.7 122.5  
 192 19.5 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





#50

Toluene-d8

Concen: 40.24 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VW003936.D

Acq: 14 Jul 2018 00:30

Instrument :

MSVOA\_W

ClientSampleId :

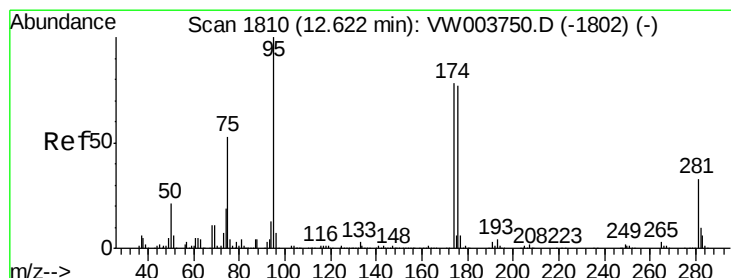
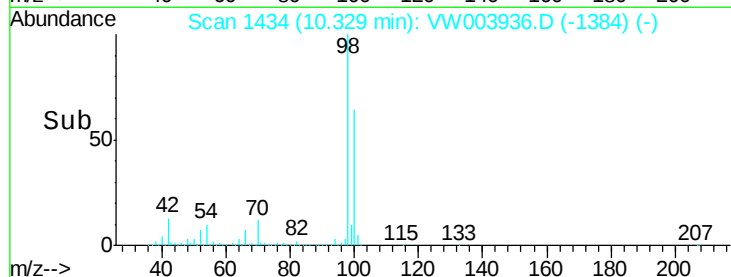
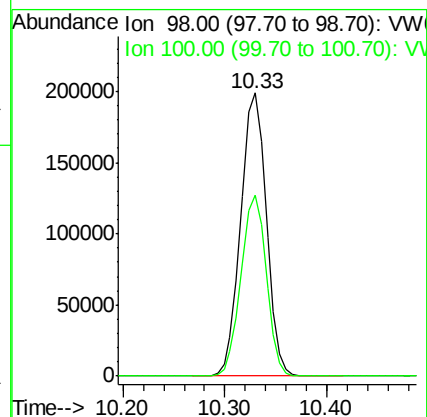
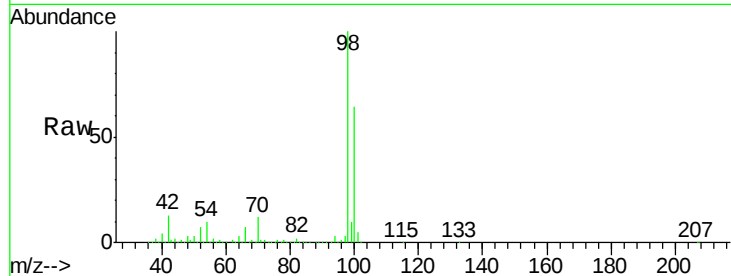
HR-05-071218-B

Tot Ion: 98 Resp: 346448

Ion Ratio Lower Upper

98 100

100 63.0 50.8 76.2



#62

4-Bromofluorobenzene

Concen: 32.02 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW003936.D

Acq: 14 Jul 2018 00:30

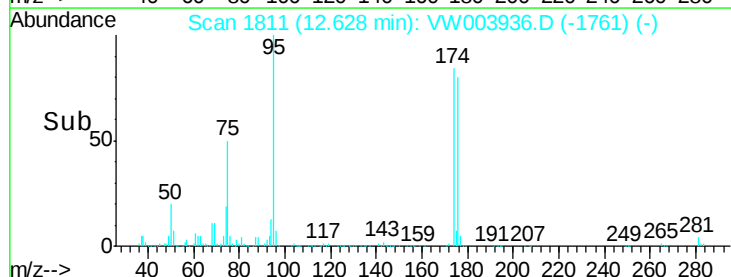
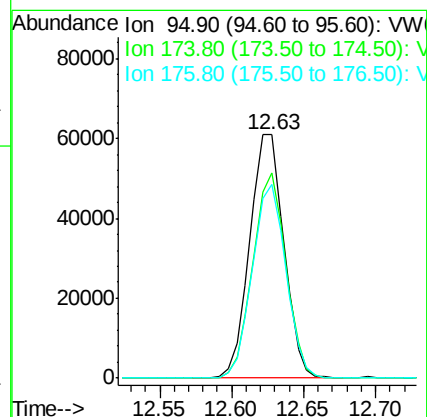
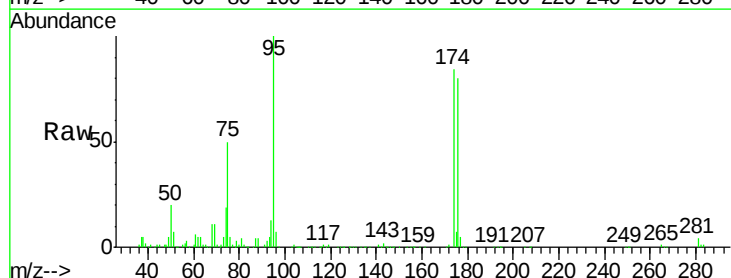
Tgt Ion: 95 Resp: 99746

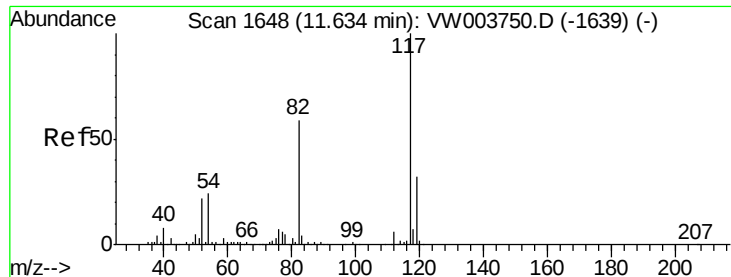
Ion Ratio Lower Upper

95 100

174 81.6 0.0 163.4

176 78.4 0.0 156.8

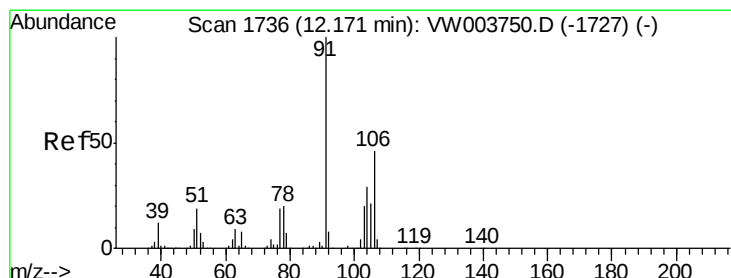
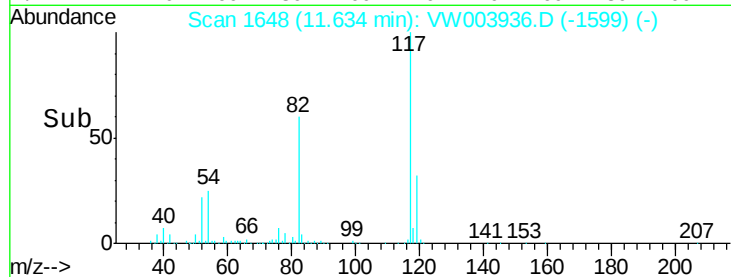
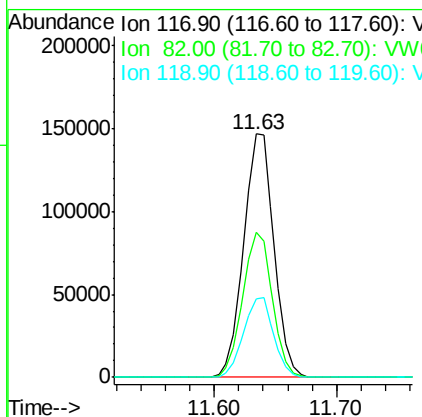
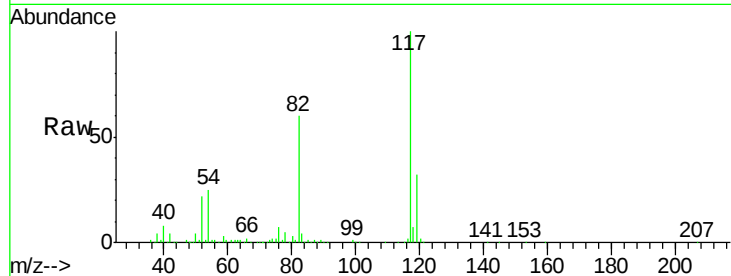




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003936.D  
Acq: 14 Jul 2018 00:30

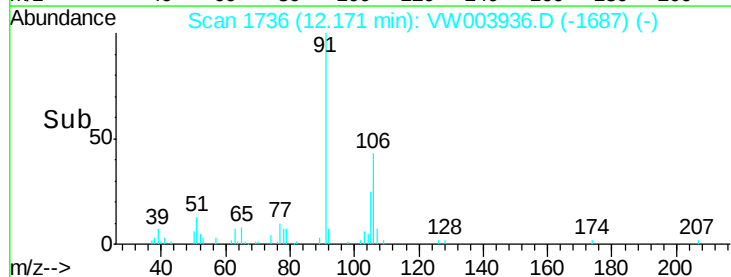
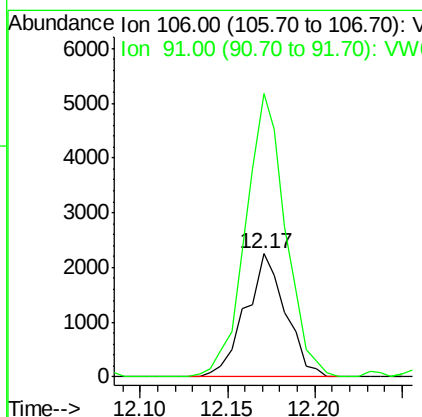
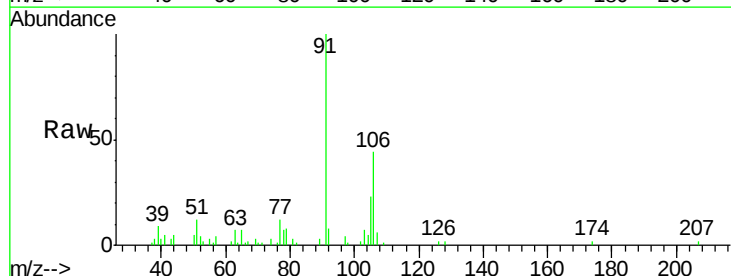
Instrument :  
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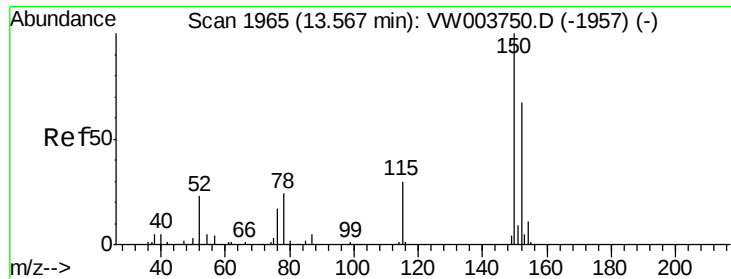
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 59.8  | 46.9  | 70.3  |
| 119     | 32.3  | 25.5  | 38.3  |



#69  
o-Xylene  
Concen: 1.07 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. -0.00 min  
Lab File: VW003936.D  
Acq: 14 Jul 2018 00:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 229.0 | 109.1 | 327.2 |





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW003936.D

Acq: 14 Jul 2018 00:30

Instrument :

MSVOA\_W

ClientSampleId :

HR-05-071218-B

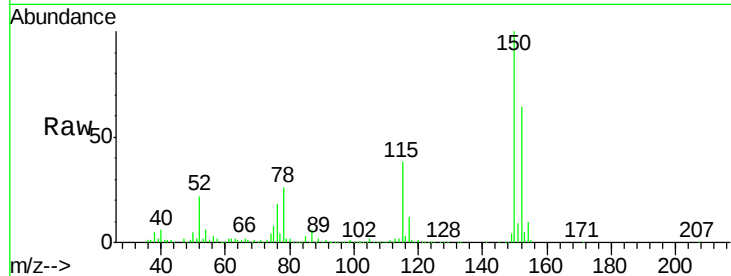
Tot Ion:152 Resp: 93160

Ion Ratio Lower Upper

152 100

115 63.8 28.9 86.8

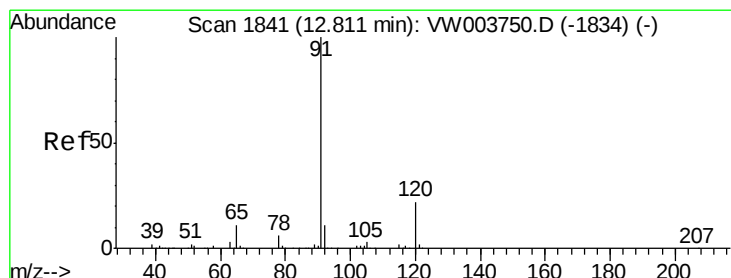
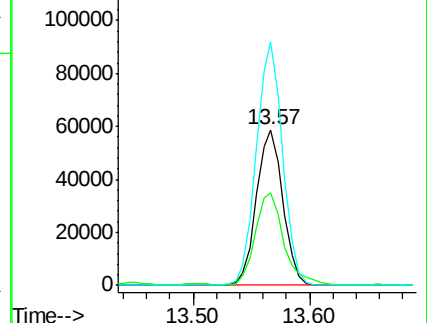
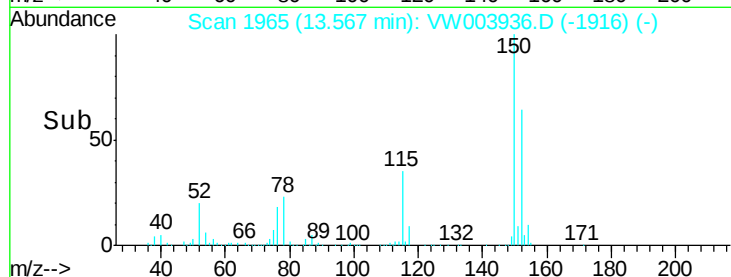
150 154.8 0.0 342.4



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



#78

n-propylbenzene

Concen: 1.61 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VW003936.D

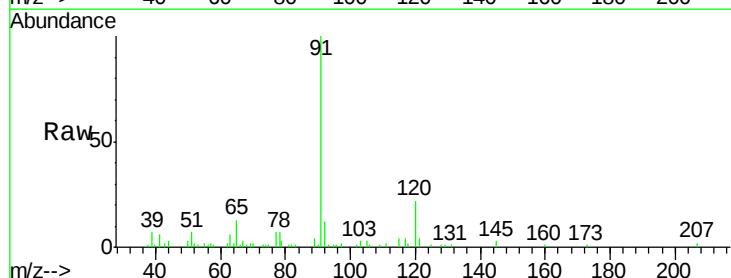
Acq: 14 Jul 2018 00:30

Tgt Ion: 91 Resp: 12723

Ion Ratio Lower Upper

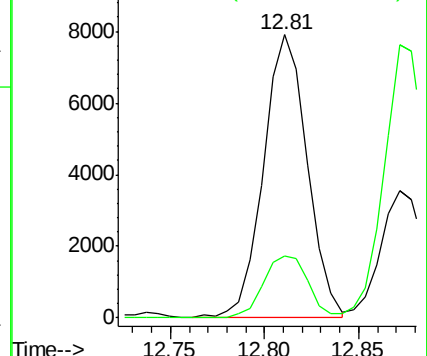
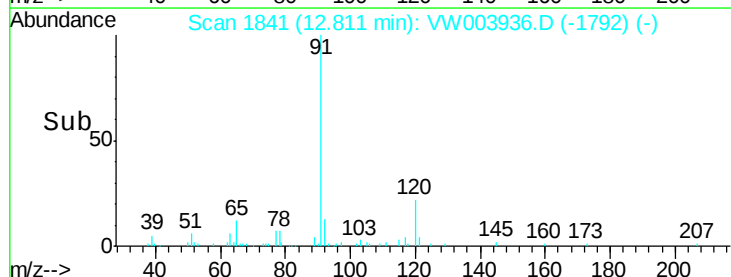
91 100

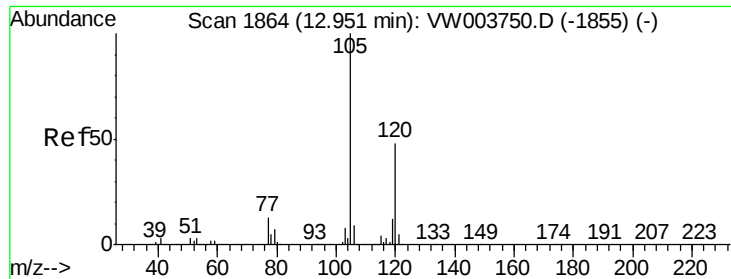
120 22.1 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

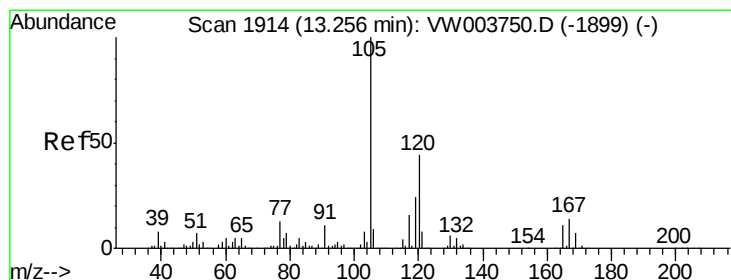
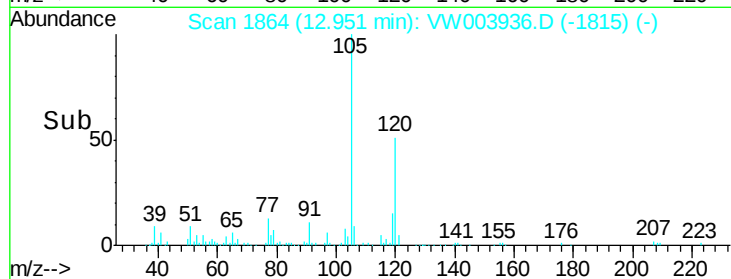
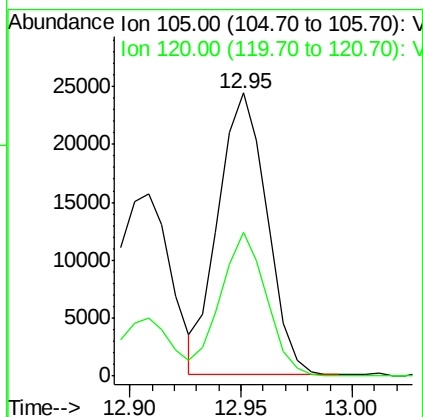
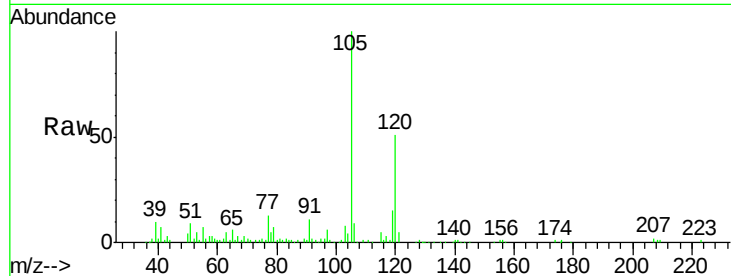




#80  
 1,3,5-Trimethylbenzene  
 Concen: 6.81 ug/l  
 RT: 12.95 min Scan# 1864  
 Delta R.T. -0.00 min  
 Lab File: VW003936.D  
 Acq: 14 Jul 2018 00:30

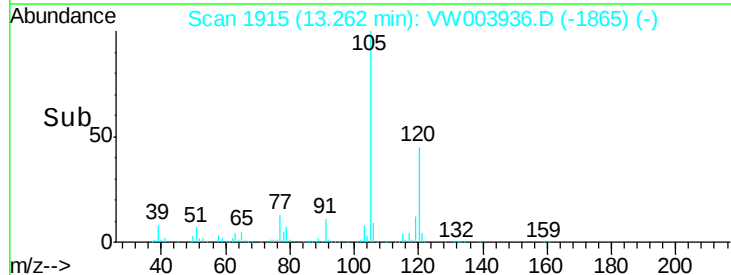
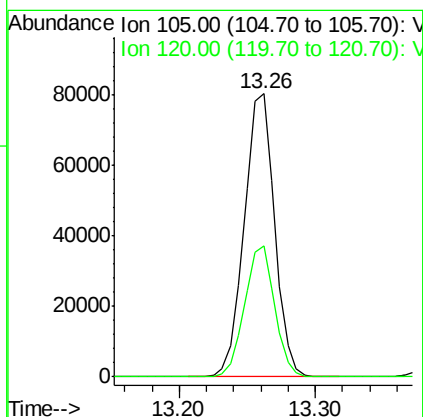
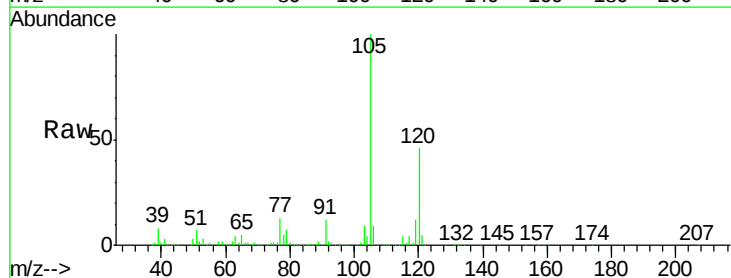
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 HR-05-071218-B

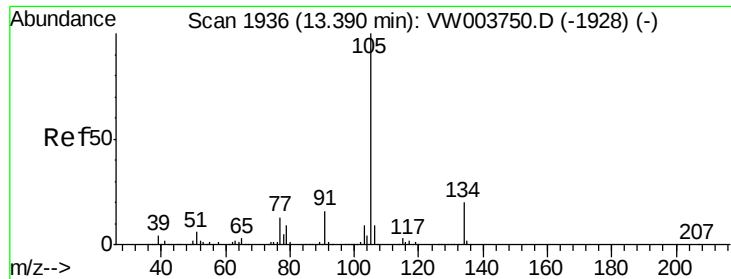
Tot Ion:105 Resp: 37008  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 24.2 72.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 22.16 ug/l  
 RT: 13.26 min Scan# 1915  
 Delta R.T. 0.01 min  
 Lab File: VW003936.D  
 Acq: 14 Jul 2018 00:30

Tgt Ion:105 Resp: 125157  
 Ion Ratio Lower Upper  
 105 100  
 120 45.9 22.0 66.0

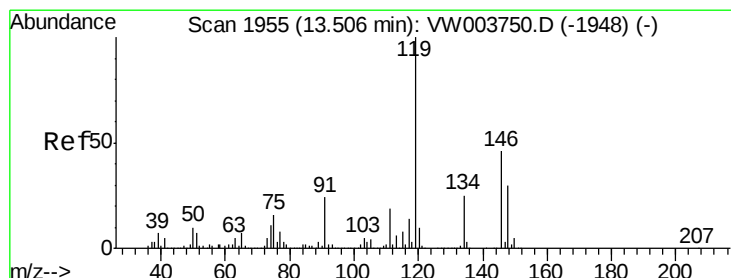
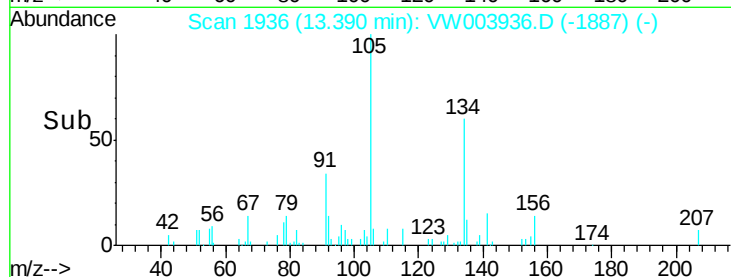
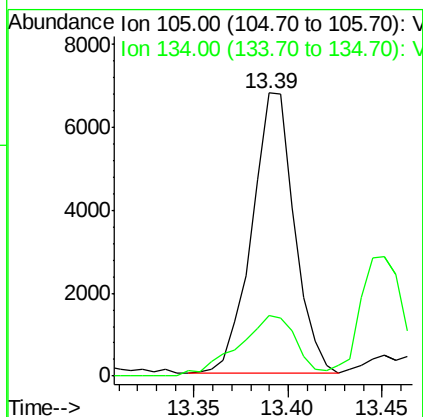
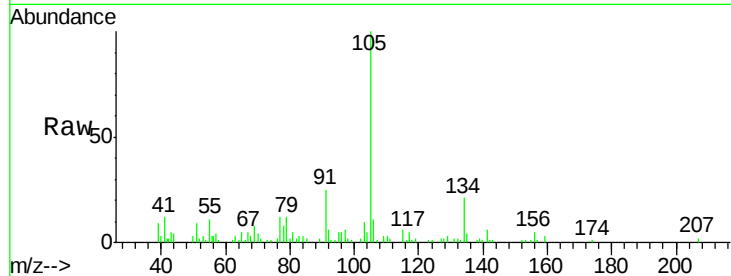




#85  
 sec-Butylbenzene  
 Concen: 1.58 ug/l  
 RT: 13.39 min Scan# 1936  
 Delta R.T. -0.00 min  
 Lab File: VW003936.D  
 Acq: 14 Jul 2018 00:30

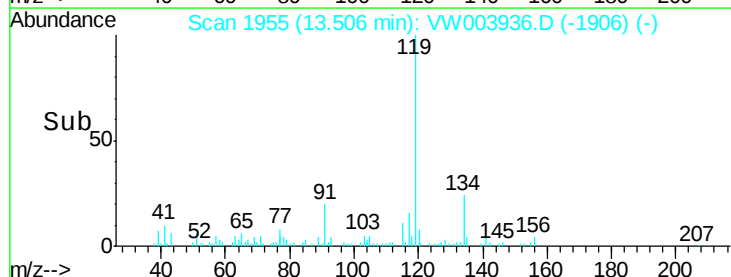
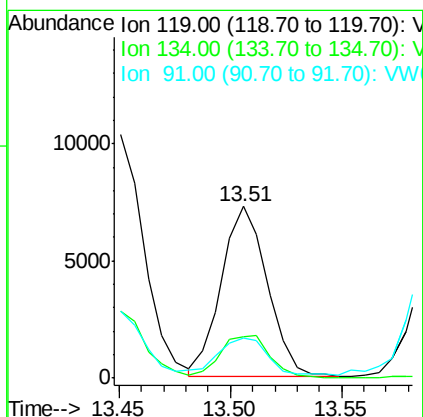
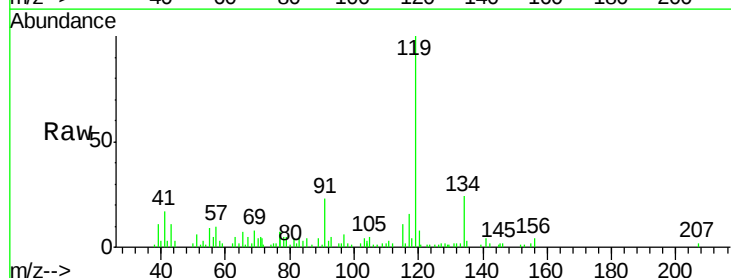
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 HR-05-071218-B

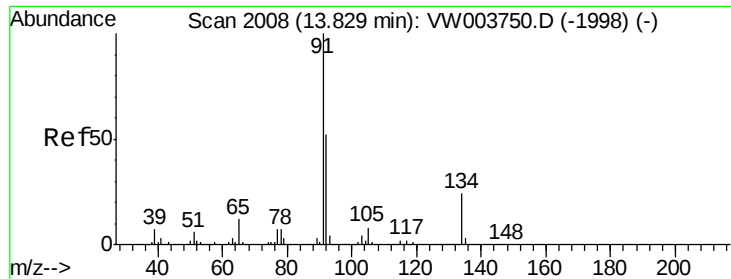
Tot Ion:105 Resp: 10591  
 Ion Ratio Lower Upper  
 105 100  
 134 29.5 9.8 29.4#



#86  
 p-Isopropyltoluene  
 Concen: 1.79 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. -0.00 min  
 Lab File: VW003936.D  
 Acq: 14 Jul 2018 00:30

Tgt Ion:119 Resp: 10515  
 Ion Ratio Lower Upper  
 119 100  
 134 26.8 13.1 39.1  
 91 21.9 11.9 35.9

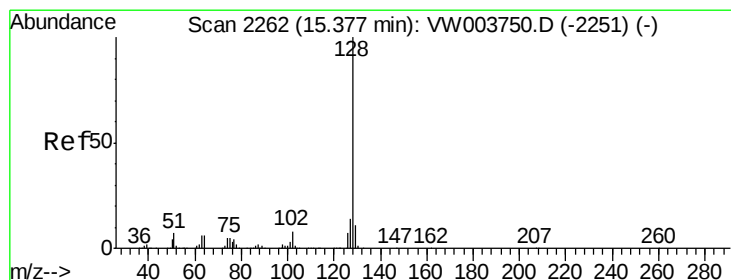
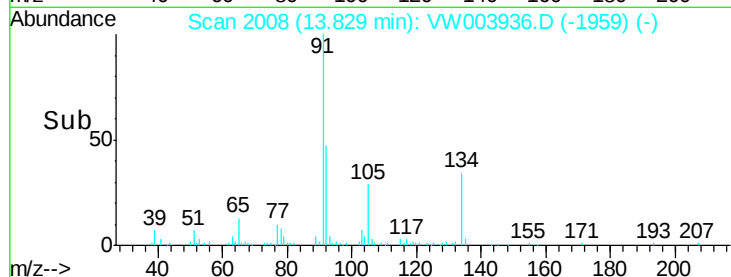
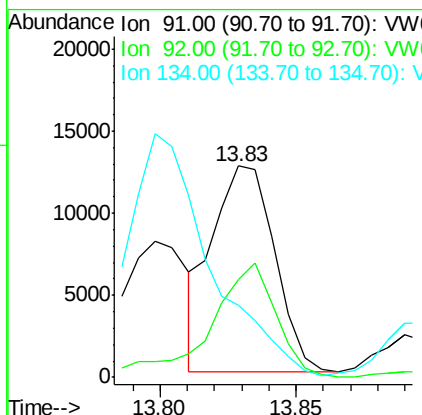
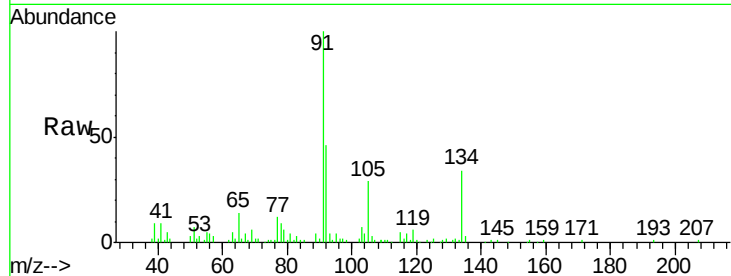




#89  
n-Butylbenzene  
Concen: 3.46 ug/l  
RT: 13.83 min Scan# 2008  
Delta R.T. -0.00 min  
Lab File: VW003936.D  
Acq: 14 Jul 2018 00:30

Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-B

Tot Ion: 91 Resp: 19933  
Ion Ratio Lower Upper  
91 100  
92 57.4 26.1 78.3  
134 0.0 12.4 37.4#



#95  
Naphthalene  
Concen: 4.22 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. -0.00 min  
Lab File: VW003936.D  
Acq: 14 Jul 2018 00:30

Tgt Ion: 128 Resp: 14571  
Ion Ratio Lower Upper  
128 100  
127 14.9 10.8 16.2  
129 14.5 8.6 13.0#

