

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW061518\  
 Data File : VW003277.D  
 Acq On : 15 Jun 2018 01:42  
 Operator : VA/AP  
 Sample : J3444-05  
 Misc : 6.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-52(0-5)

Quant Time: Jun 15 06:49:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 14 08:20:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 98006    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 156234   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 146210   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 66099    | 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   | 55630    | 52.40 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| Recovery                    |       |      |          |       |       |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 47423    | 48.85 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| Recovery                    |       |      |          |       |       |          |
| 50) Toluene-d8              | 10.33 | 98   | 138130   | 35.88 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| Recovery                    |       |      |          |       |       |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 49283    | 36.18 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| Recovery                    |       |      |          |       |       |          |

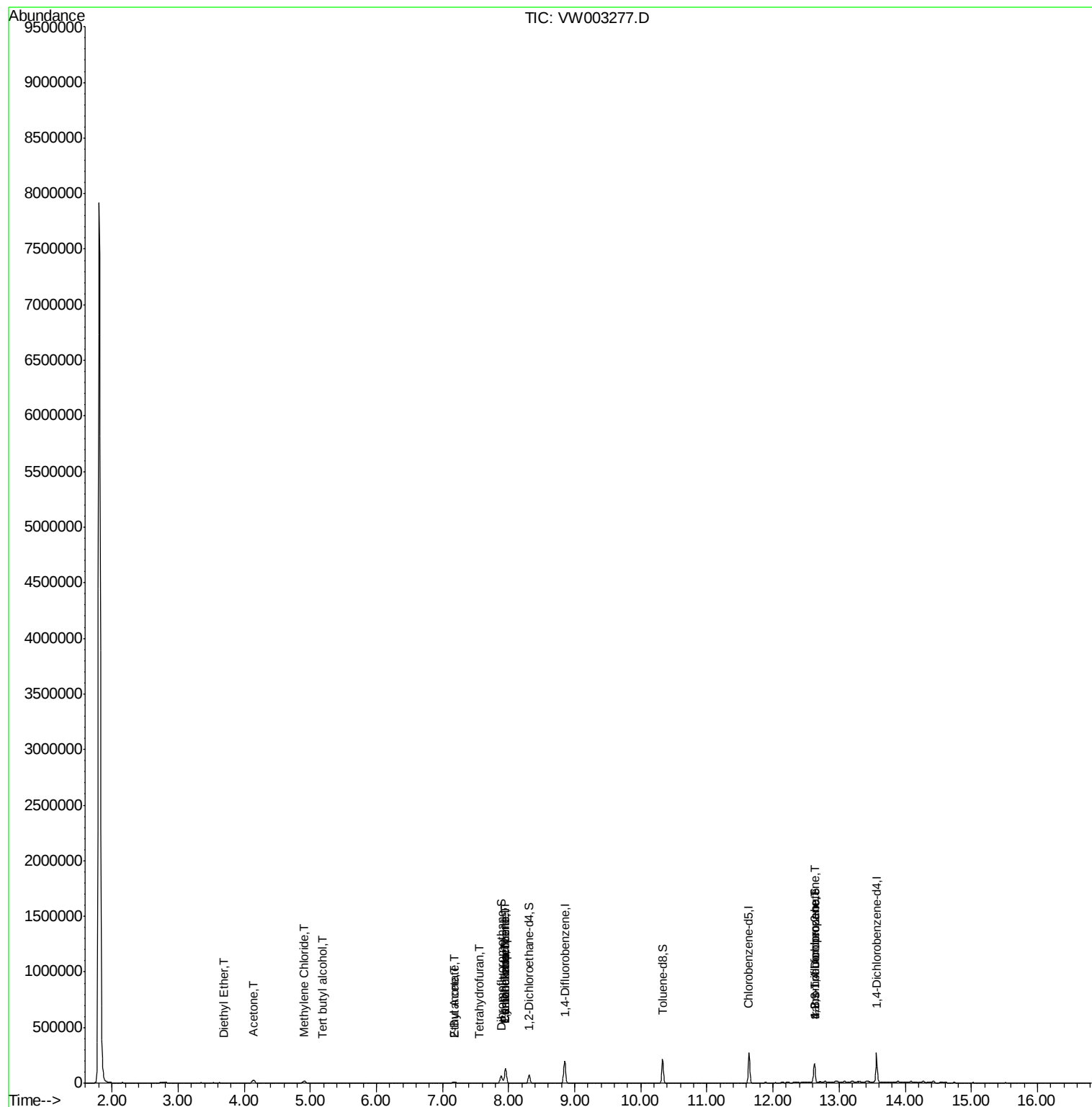
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 519      | 1.081   | ug/l   | 85     |
| 11) Tert butyl alcohol         | 5.19  | 59   | 923      | 16.212  | ug/l # | 91     |
| 16) Acetone                    | 4.14  | 43   | 47419    | 212.985 | ug/l   | 93     |
| 20) Methylene Chloride         | 4.92  | 84   | 12453    | 10.249  | ug/l   | 96     |
| 25) 2-Butanone                 | 7.18  | 43   | 13326    | 48.135  | ug/l   | 94     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 366      | 2.163   | ug/l # | 40     |
| 31) Cyclohexane                | 7.96  | 56   | 2768     | 1.614   | ug/l # | 43     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 8146     | 5.399   | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.18  | 43   | 13326    | 21.319  | ug/l # | 71     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 9464     | 6.395   | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 26781    | 47.394  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 26781    | 109.056 | ug/l # | 8      |

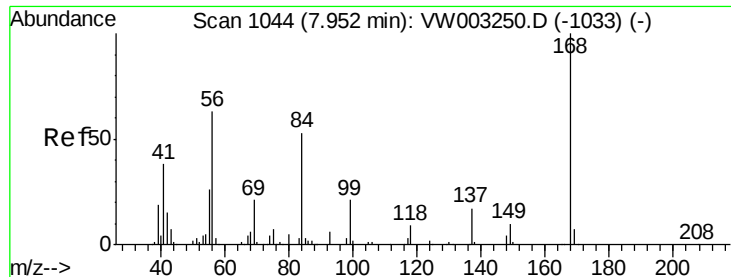
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW061518\  
Data File : VW003277.D  
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Sample : J3444-05  
Misc : 6.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-52(0-5)

Quant Time: Jun 15 06:49:41 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 14 08:20:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003277.D

Acq: 15 Jun 2018 01:42

Instrument :

MSVOA\_W

ClientSampleId :

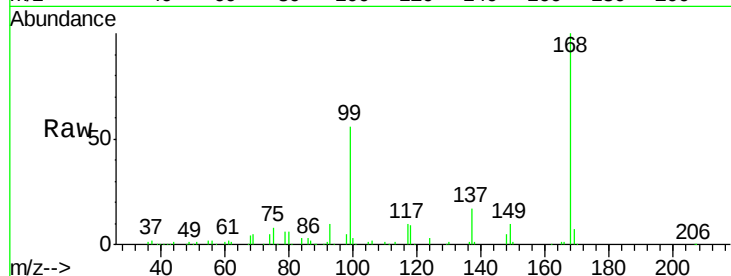
SB-52(0-5)

Tgt Ion:168 Resp: 98006

Ion Ratio Lower Upper

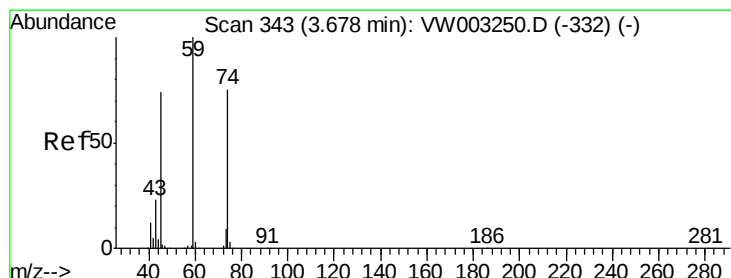
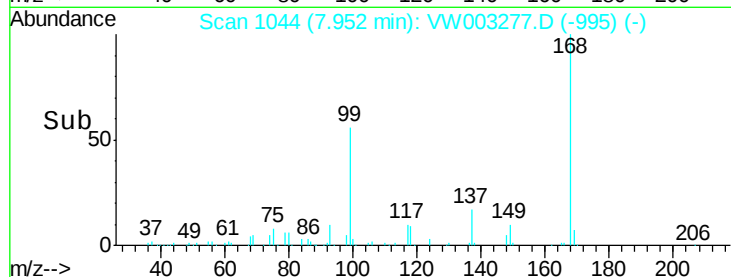
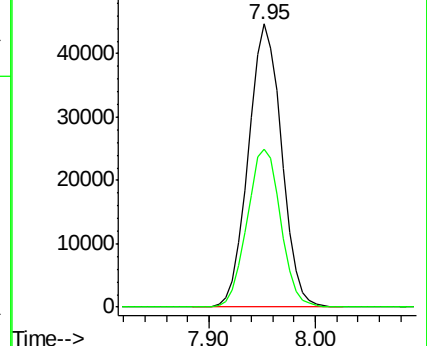
168 100

99 55.8 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.081 ug/l

RT: 3.68 min Scan# 344

Delta R.T. 0.01 min

Lab File: VW003277.D

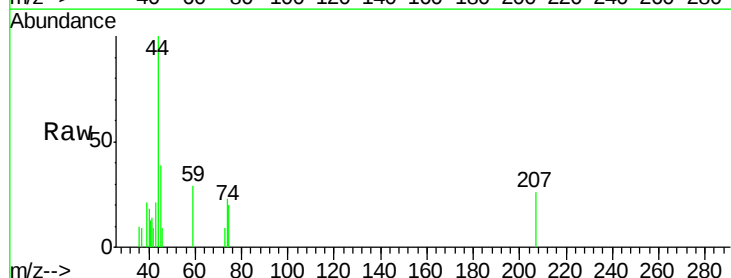
Acq: 15 Jun 2018 01:42

Tgt Ion: 74 Resp: 519

Ion Ratio Lower Upper

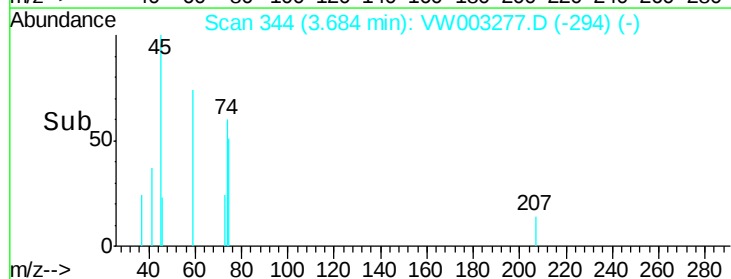
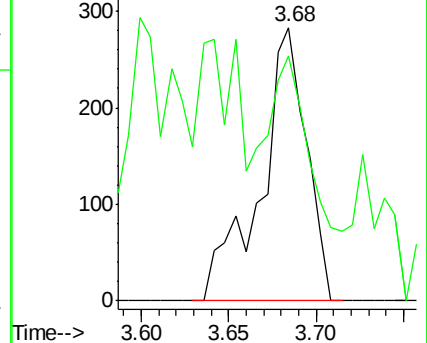
74 100

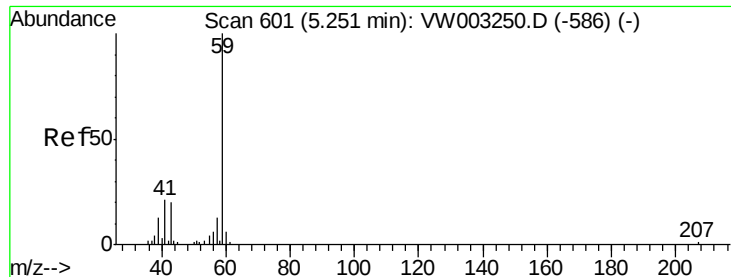
45 87.9 51.4 154.2



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#11

Tert butyl alcohol

Concen: 16.212 ug/l

RT: 5.19 min Scan# 591

Delta R.T. -0.06 min

Lab File: VW003277.D

Acq: 15 Jun 2018 01:42

Instrument :

MSVOA\_W

ClientSampled :

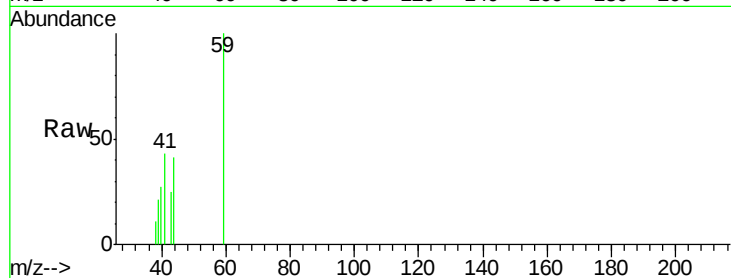
SB-52(0-5)

Tgt Ion: 59 Resp: 923

Ion Ratio Lower Upper

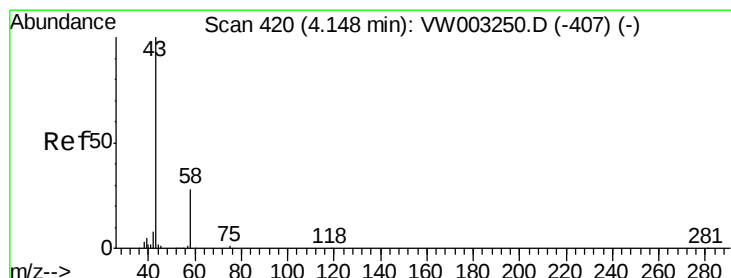
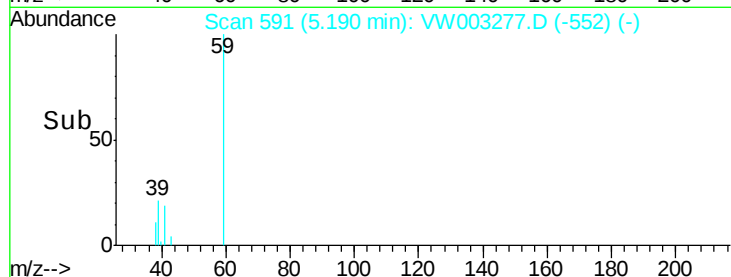
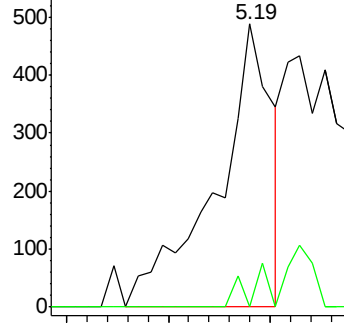
59 100

57 2.1 4.2 6.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#16

Acetone

Concen: 212.985 ug/l

RT: 4.14 min Scan# 418

Delta R.T. -0.01 min

Lab File: VW003277.D

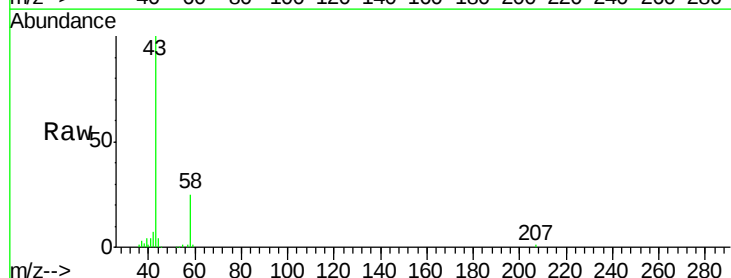
Acq: 15 Jun 2018 01:42

Tgt Ion: 43 Resp: 47419

Ion Ratio Lower Upper

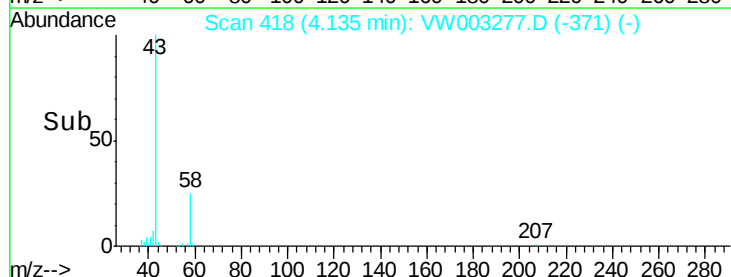
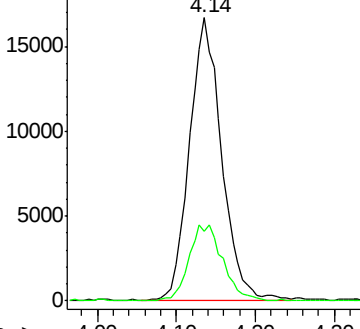
43 100

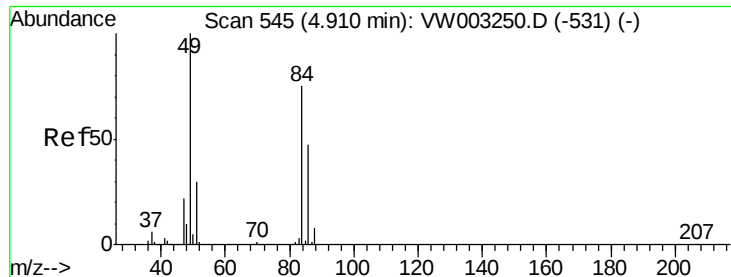
58 24.8 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#20

Methylene Chloride

Concen: 10.249 ug/l

RT: 4.92 min Scan# 546

Delta R.T. 0.01 min

Lab File: VW003277.D

Acq: 15 Jun 2018 01:42

Instrument :

MSVOA\_W

ClientSampleId :

SB-52(0-5)

Tgt Ion: 84 Resp: 12453

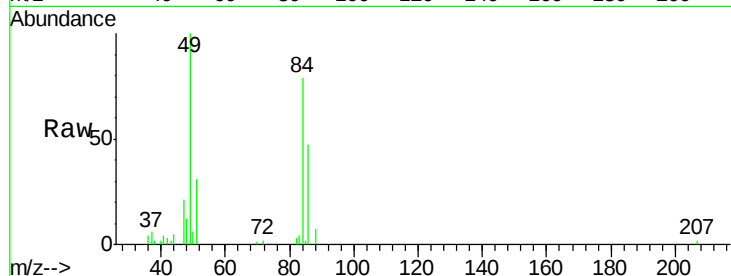
Ion Ratio Lower Upper

84 100

49 127.3 106.3 159.5

51 38.9 32.0 48.0

86 59.5 49.9 74.9

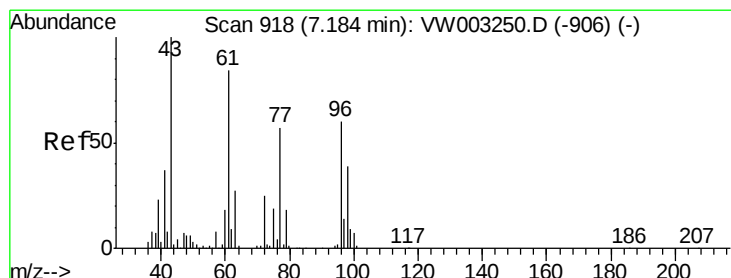
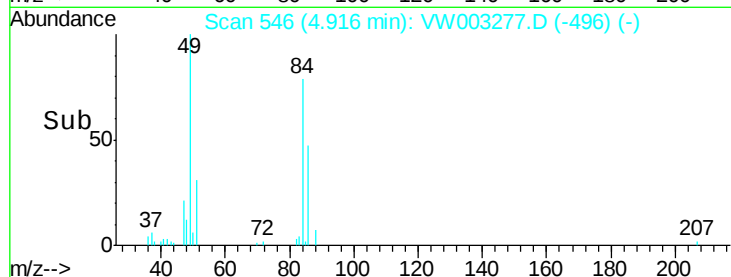
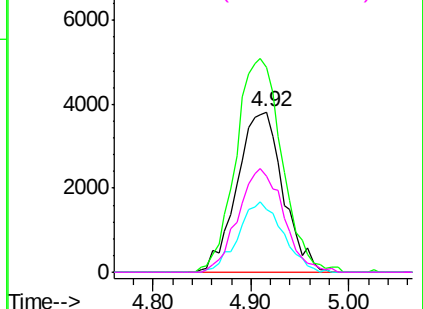


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 48.135 ug/l

RT: 7.18 min Scan# 918

Delta R.T. 0.00 min

Lab File: VW003277.D

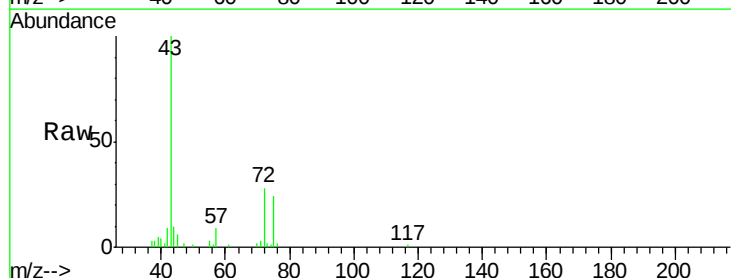
Acq: 15 Jun 2018 01:42

Tgt Ion: 43 Resp: 13326

Ion Ratio Lower Upper

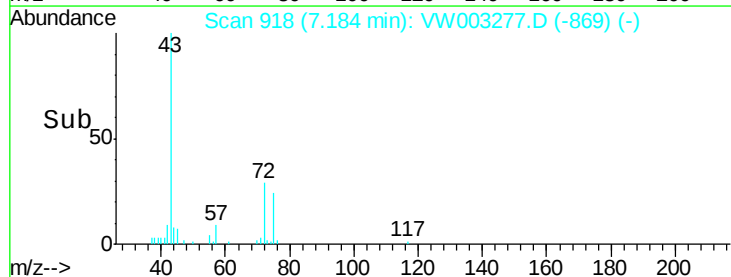
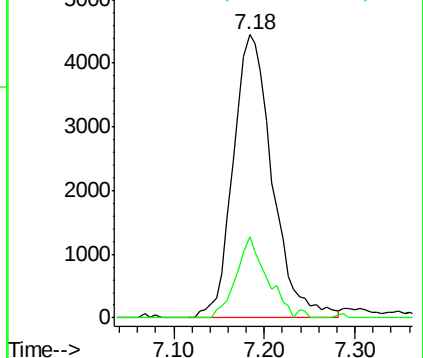
43 100

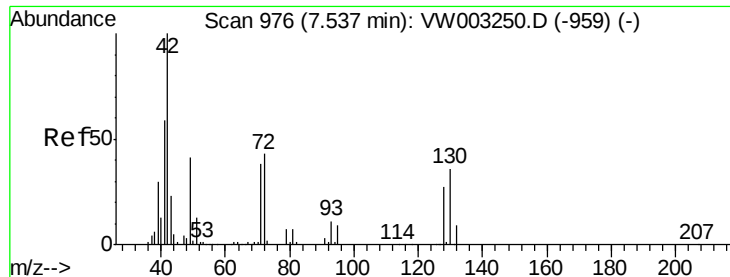
72 28.5 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

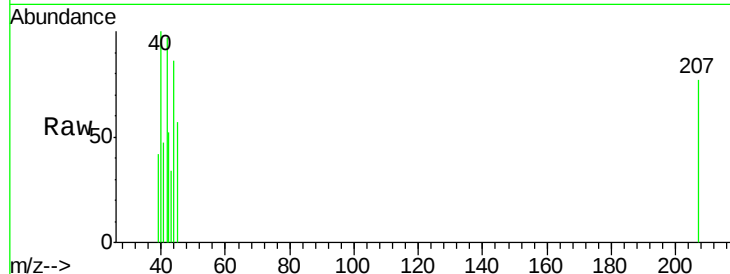




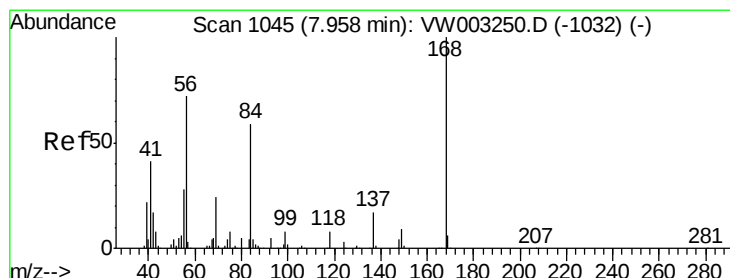
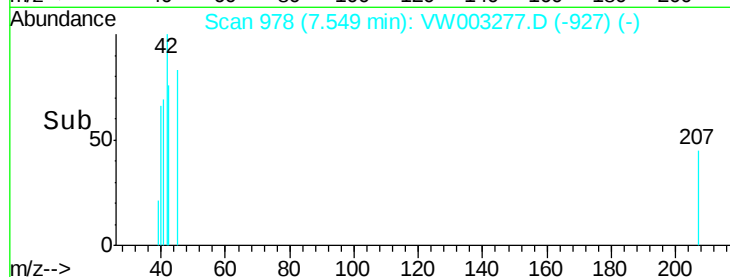
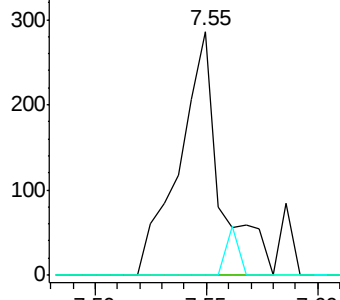
#29  
Tetrahydrofuran  
Concen: 2.163 ug/l  
RT: 7.55 min Scan# 978  
Delta R.T. 0.01 min  
Lab File: VW003277.D  
Acq: 15 Jun 2018 01:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-52(0-5)

Tgt Ion: 42 Resp: 366  
Ion Ratio Lower Upper  
42 100  
72 0.0 32.4 48.6#  
71 5.7 31.2 46.8#

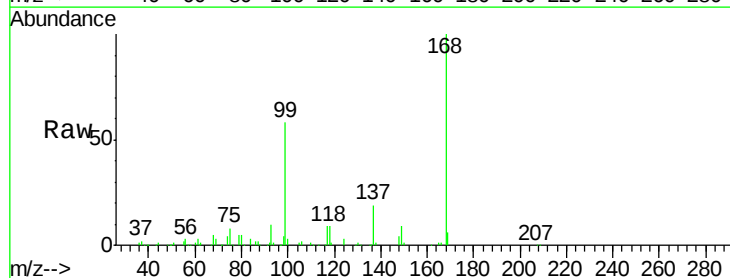


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

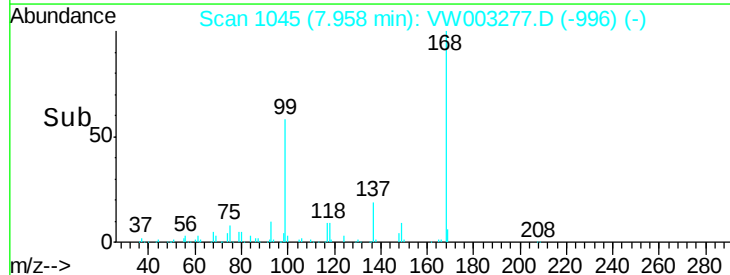
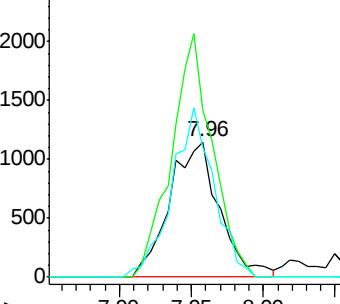


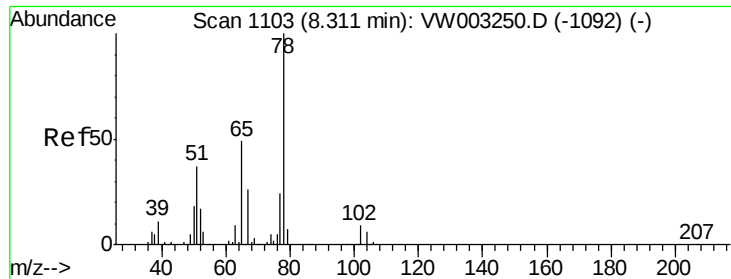
#31  
Cyclohexane  
Concen: 1.614 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. 0.00 min  
Lab File: VW003277.D  
Acq: 15 Jun 2018 01:42

Tgt Ion: 56 Resp: 2768  
Ion Ratio Lower Upper  
56 100  
69 123.3 26.3 39.5#  
84 96.3 65.7 98.5



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

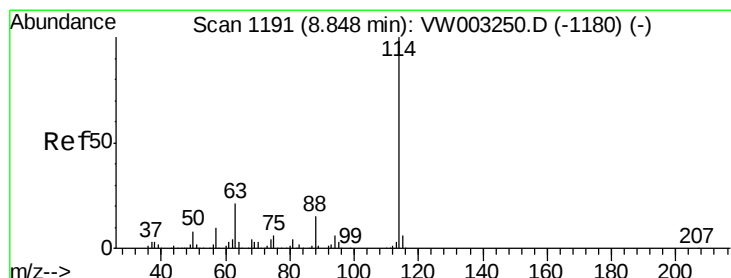
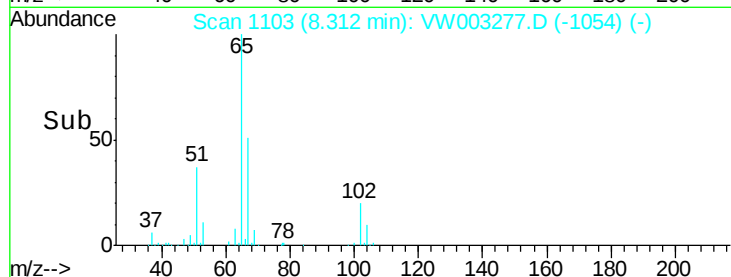
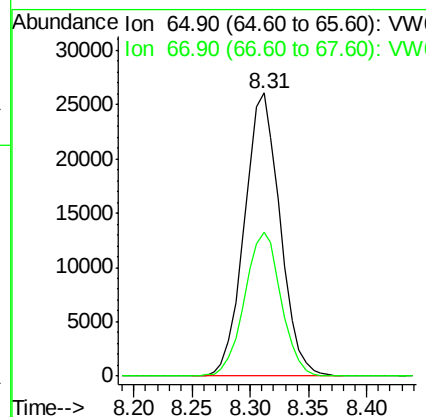
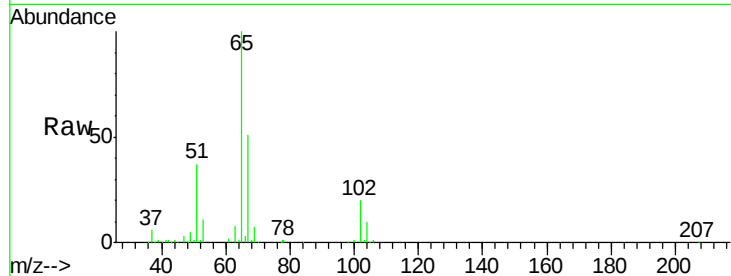




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.404 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. 0.00 min  
 Lab File: VW003277.D  
 Acq: 15 Jun 2018 01:42

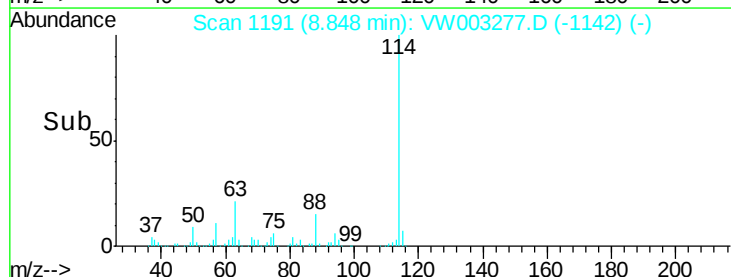
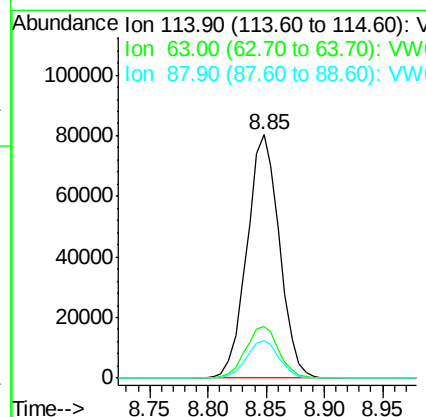
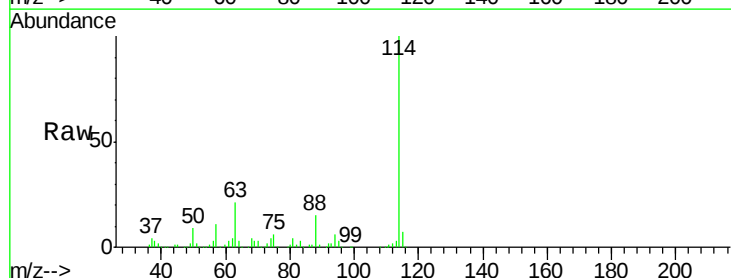
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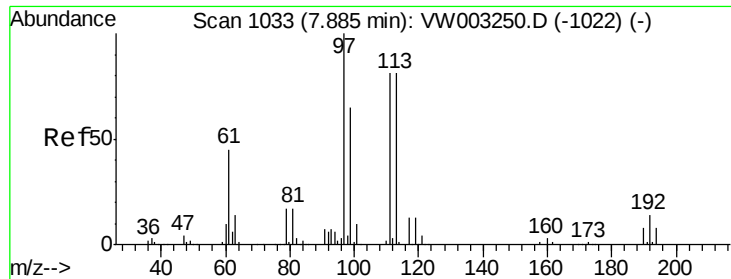
Tgt Ion: 65 Resp: 55630  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 104.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW003277.D  
 Acq: 15 Jun 2018 01:42

Tgt Ion: 114 Resp: 156234  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 43.0  
 88 15.2 0.0 29.6

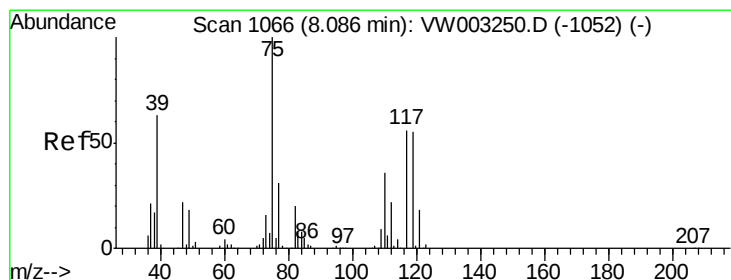
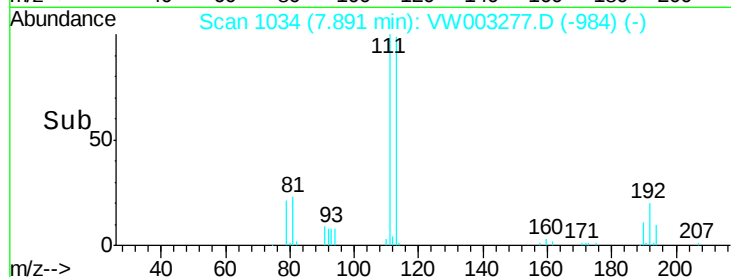
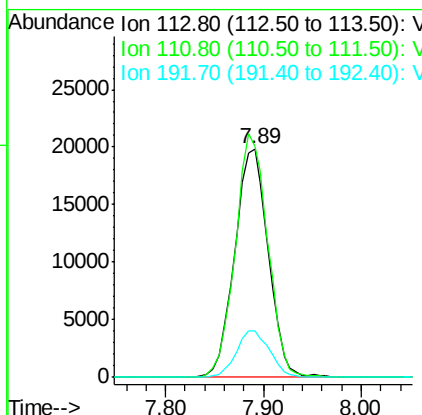
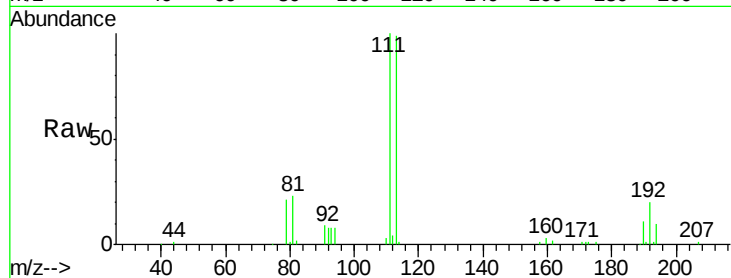




#35  
 Dibromofluoromethane  
 Concen: 48.850 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.01 min  
 Lab File: VW003277.D  
 Acq: 15 Jun 2018 01:42

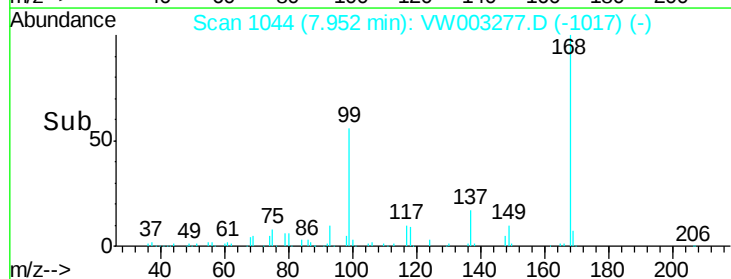
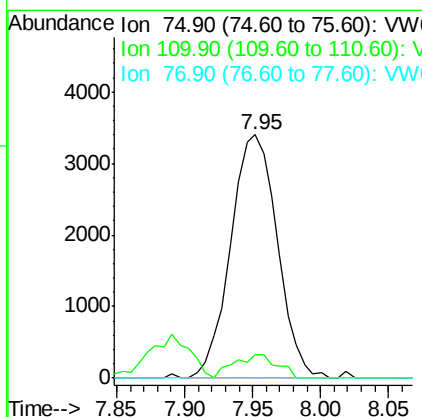
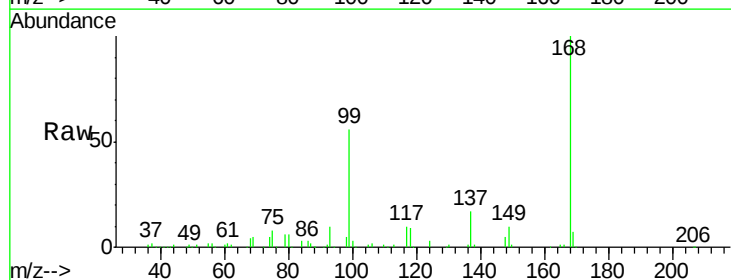
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SB-52(0-5)

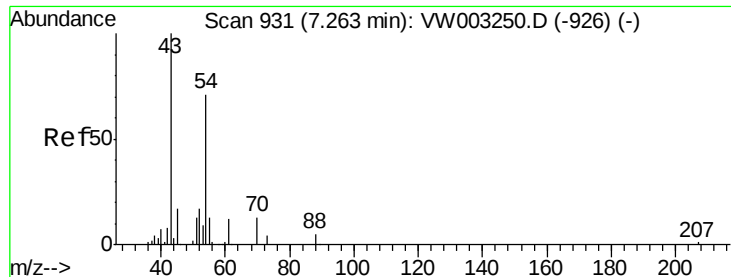
Tgt Ion:113 Resp: 47423  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 82.2 123.2  
 192 20.3 16.2 24.2



#36  
 1,1-Dichloropropene  
 Concen: 5.399 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW003277.D  
 Acq: 15 Jun 2018 01:42

Tgt Ion: 75 Resp: 8146  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 17.1 51.3#  
 77 0.0 24.9 37.3#

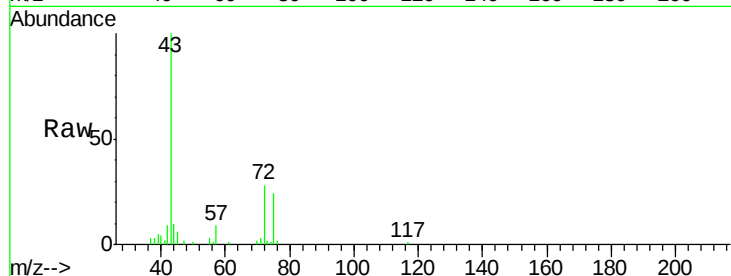




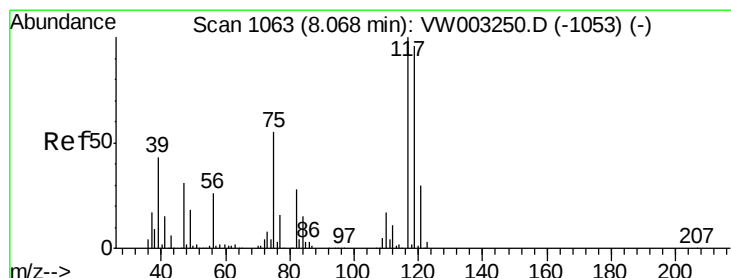
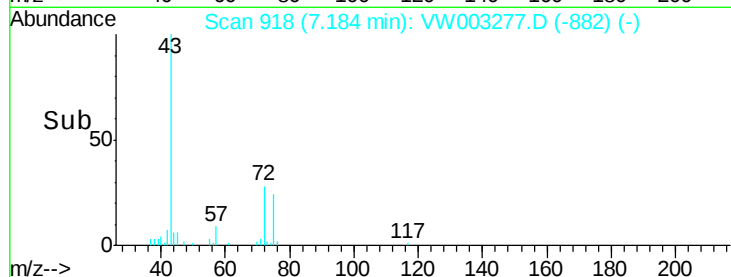
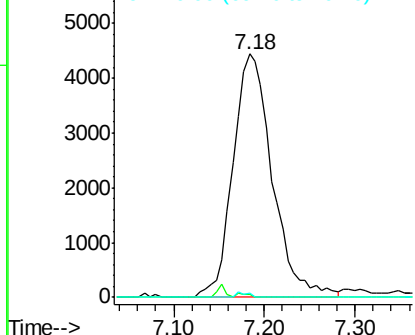
#37  
Ethyl Acetate  
Concen: 21.319 ug/l  
RT: 7.18 min Scan# 918  
Delta R.T. -0.08 min  
Lab File: VW003277.D  
Acq: 15 Jun 2018 01:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-52(0-5)

Tgt Ion: 43 Resp: 13326  
Ion Ratio Lower Upper  
43 100  
61 0.6 10.8 16.2#  
70 0.7 7.8 11.6#

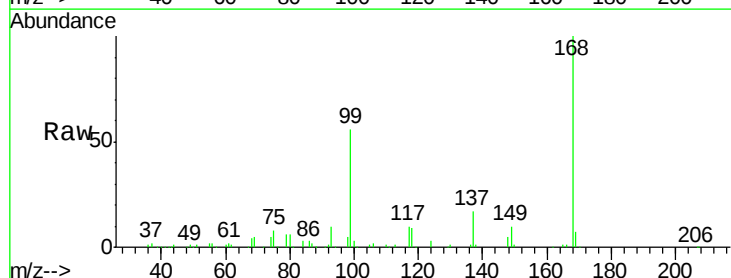


Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 70.00 (69.70 to 70.70): VW

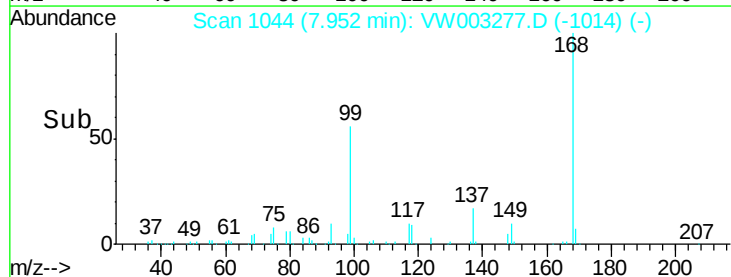
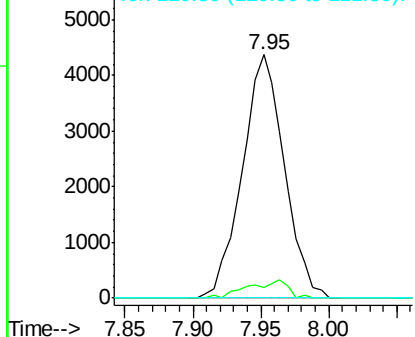


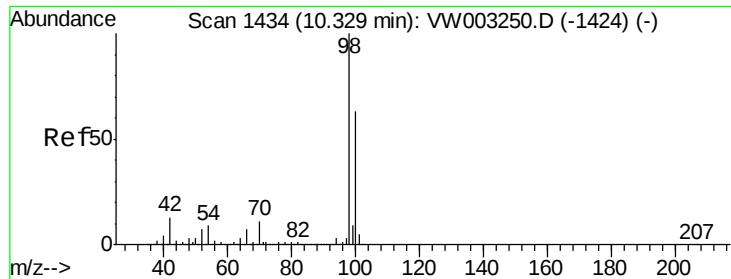
#38  
Carbon Tetrachloride  
Concen: 6.395 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.12 min  
Lab File: VW003277.D  
Acq: 15 Jun 2018 01:42

Tgt Ion: 117 Resp: 9464  
Ion Ratio Lower Upper  
117 100  
119 4.2 76.6 115.0#  
121 0.0 23.9 35.9#



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: 35.884 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003277.D

Acq: 15 Jun 2018 01:42

Instrument :

MSVOA\_W

ClientSampleId :

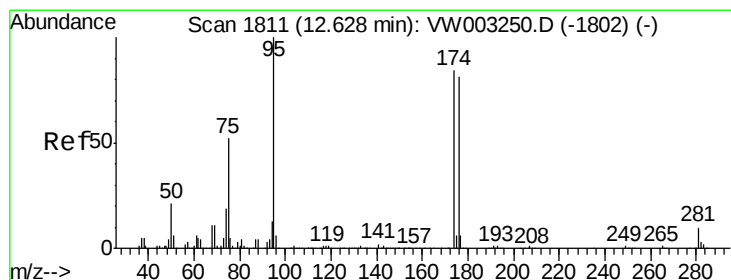
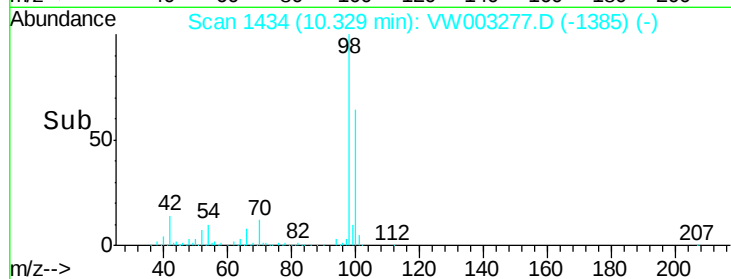
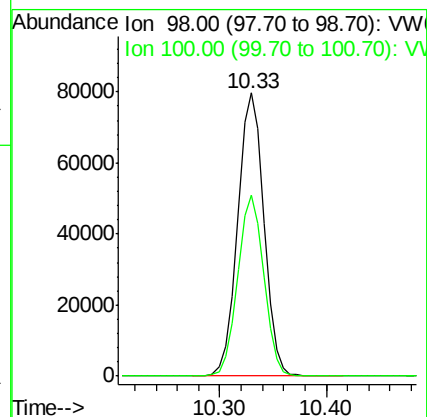
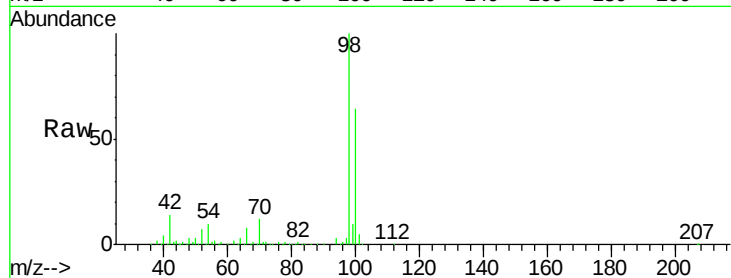
SB-52(0-5)

Tgt Ion: 98 Resp: 138130

Ion Ratio Lower Upper

98 100

100 63.6 50.8 76.2



#62

4-Bromofluorobenzene

Concen: 36.177 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW003277.D

Acq: 15 Jun 2018 01:42

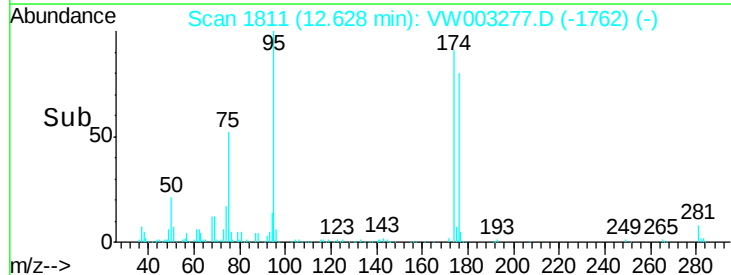
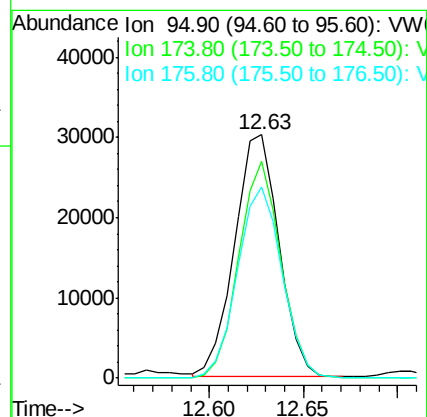
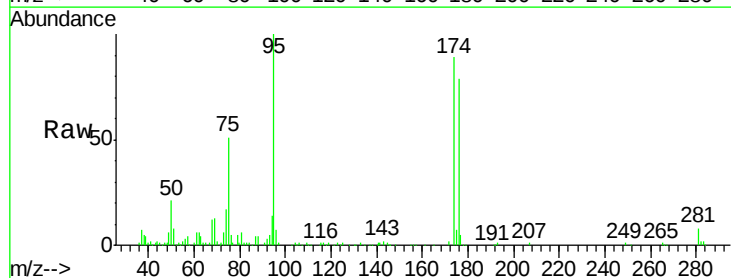
Tgt Ion: 95 Resp: 49283

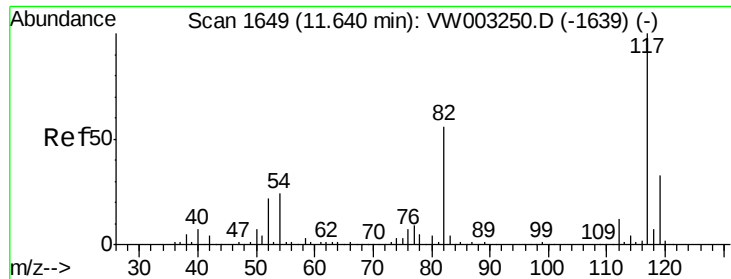
Ion Ratio Lower Upper

95 100

174 85.0 0.0 166.4

176 79.3 0.0 162.0

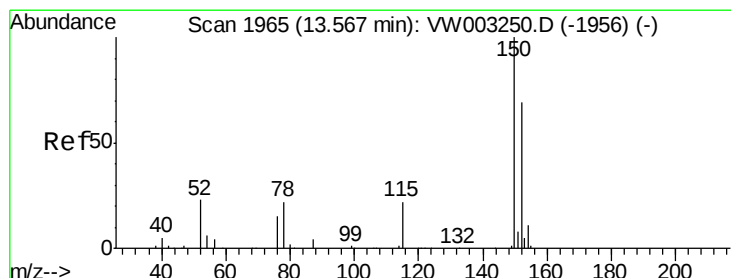
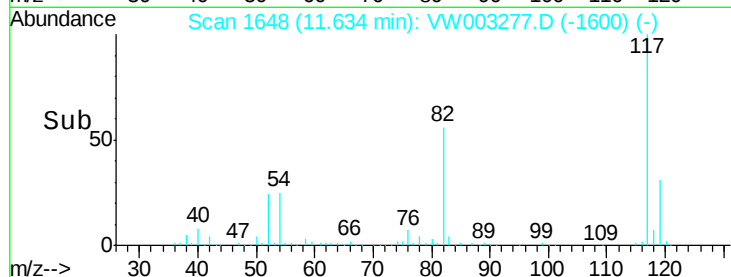
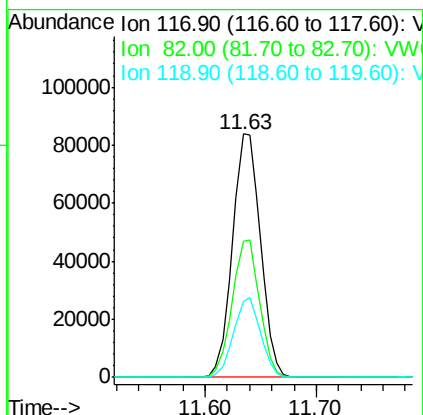
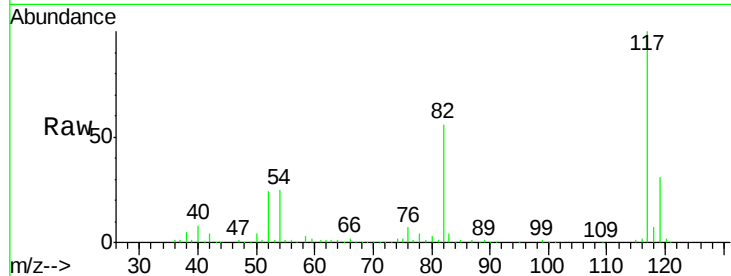




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW003277.D  
Acq: 15 Jun 2018 01:42

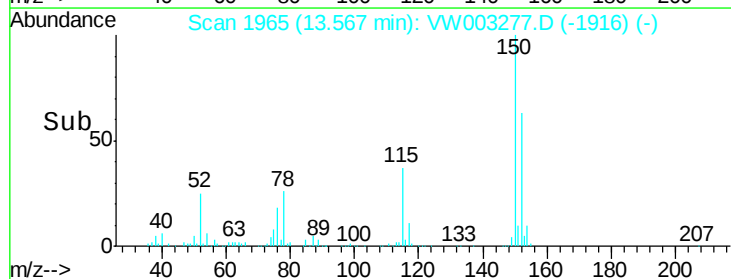
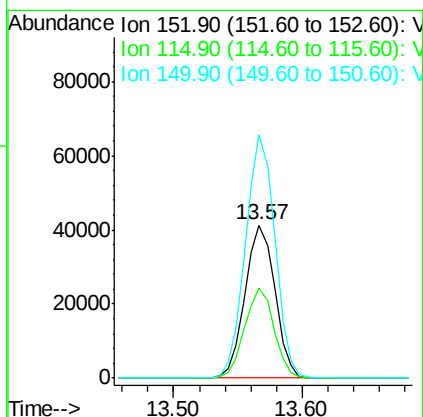
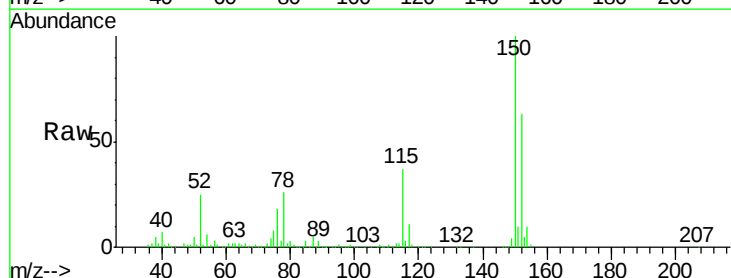
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-52(0-5)

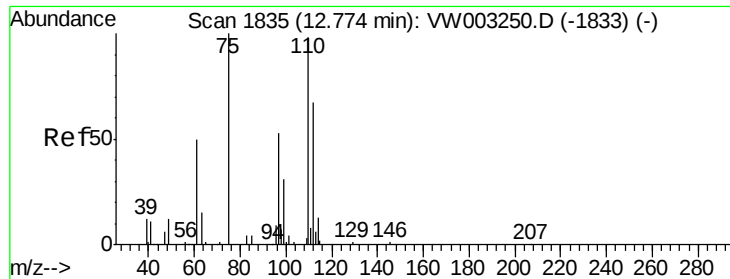
Tgt Ion:117 Resp: 146210  
Ion Ratio Lower Upper  
117 100  
82 56.0 44.6 67.0  
119 31.0 26.7 40.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW003277.D  
Acq: 15 Jun 2018 01:42

Tgt Ion:152 Resp: 66099  
Ion Ratio Lower Upper  
152 100  
115 57.7 29.3 88.0  
150 156.4 0.0 349.6





#76

1,2,3-Trichloropropane

Concen: 47.394 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003277.D

Acq: 15 Jun 2018 01:42

Instrument :

MSVOA\_W

ClientSampleId :

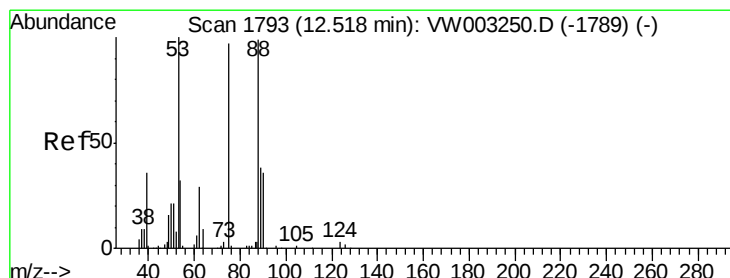
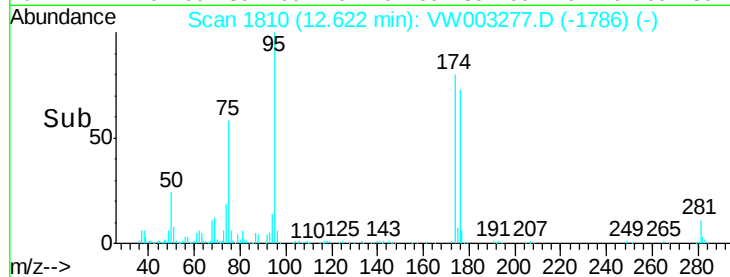
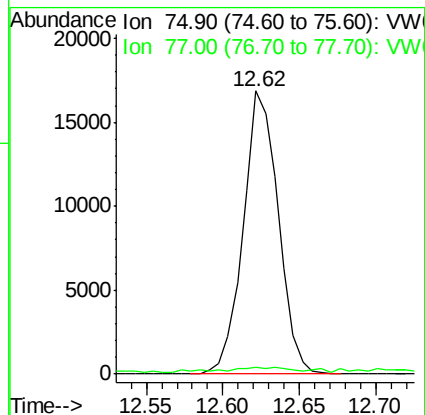
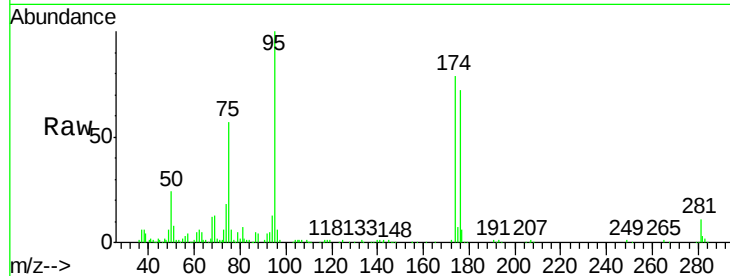
SB-52(0-5)

Tgt Ion: 75 Resp: 26781

Ion Ratio Lower Upper

75 100

77 2.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 109.056 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003277.D

Acq: 15 Jun 2018 01:42

Tgt Ion: 75 Resp: 26781

Ion Ratio Lower Upper

75 100

53 0.0 82.9 124.3#

89 0.1 36.7 55.1#

