

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW060619\  
 Data File : VW010706.D  
 Acq On : 06 Jun 2019 13:31  
 Operator : SY/VA  
 Sample : K3222-03  
 Misc : 4.96G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TT-008-IDWSO-20190605

Quant Time: Jun 07 07:38:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 05 03:21:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 220369   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 382377   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 338657   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 151210   | 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   | 153378   | 59.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.10% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 113318   | 54.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.20% |          |
| 50) Toluene-d8              | 10.32 | 98   | 501420   | 55.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.18% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 175493   | 52.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.98% |          |

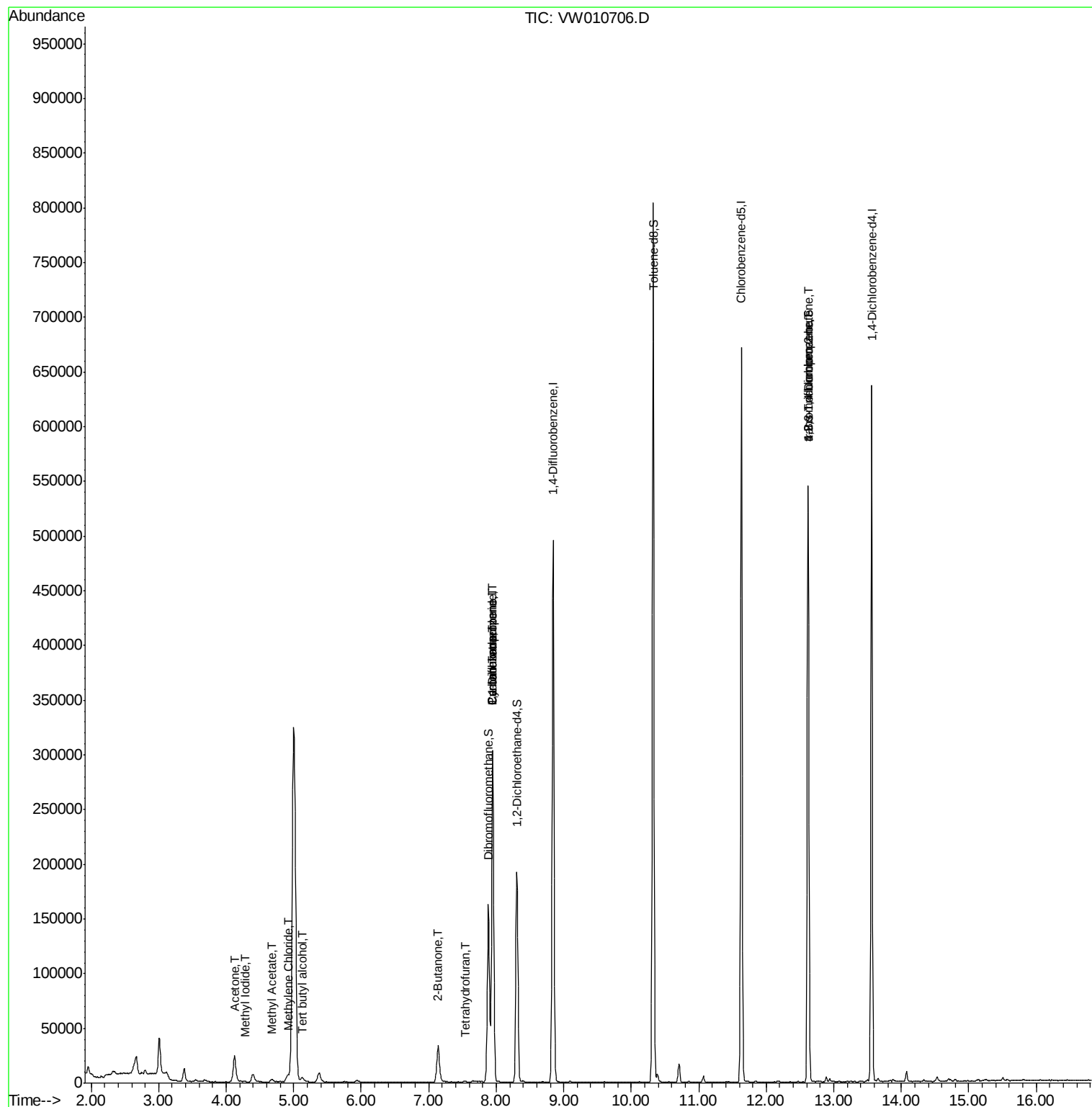
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.29  | 142  | 541      | 5.013   | ug/l # | 88     |
| 11) Tert butyl alcohol         | 5.13  | 59   | 4644     | 21.946  | ug/l # | 73     |
| 16) Acetone                    | 4.12  | 43   | 43990    | 63.206  | ug/l   | 100    |
| 18) Methyl Acetate             | 4.68  | 43   | 5422     | 3.619   | ug/l   | 95     |
| 20) Methylene Chloride         | 4.92  | 84   | 4238     | 1.736   | ug/l   | 95     |
| 25) 2-Butanone                 | 7.13  | 43   | 2914     | 3.019   | ug/l # | 53     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 811      | 1.336   | ug/l # | 67     |
| 31) Cyclohexane                | 7.95  | 56   | 5931     | 1.132   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 19640    | 5.018   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 21940    | 6.493   | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 94521    | 59.525  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 94521    | 136.809 | ug/l # | 5      |

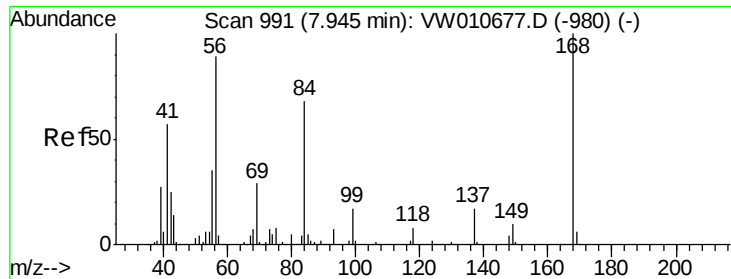
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jun 05 03:21:19 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010706.D

Acq: 06 Jun 2019 13:31

Instrument :

MSVOA\_W

ClientSampleId :

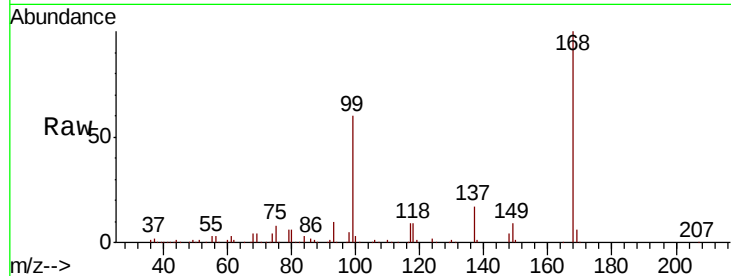
TT-008-IDW/ISO-20190605

Tot Ion:168 Resp: 220369

Ion Ratio Lower Upper

168 100

99 59.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

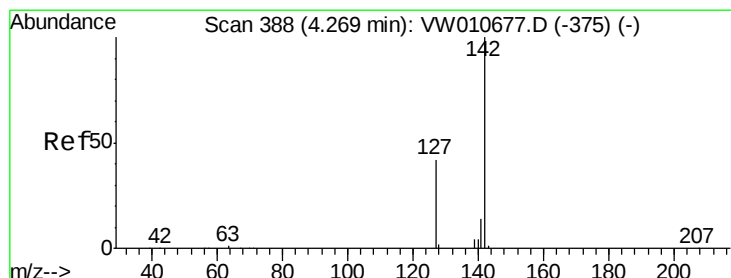
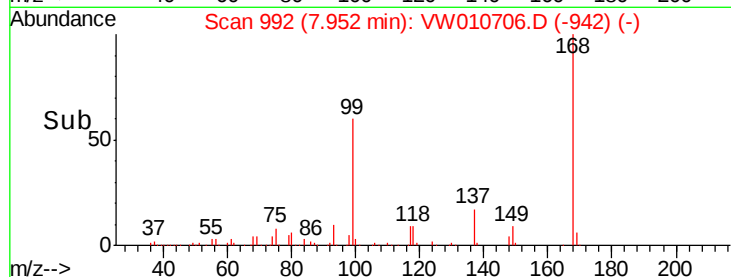
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#10

Methyl Iodide

Concen: 5.013 ug/l

RT: 4.29 min Scan# 391

Delta R.T. 0.02 min

Lab File: VW010706.D

Acq: 06 Jun 2019 13:31

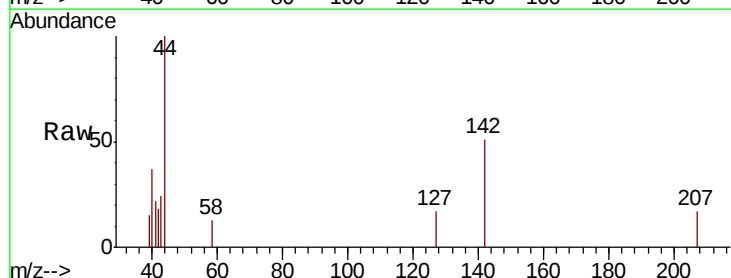
Tgt Ion:142 Resp: 541

Ion Ratio Lower Upper

142 100

127 40.3 34.6 51.8

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.29

300

250

200

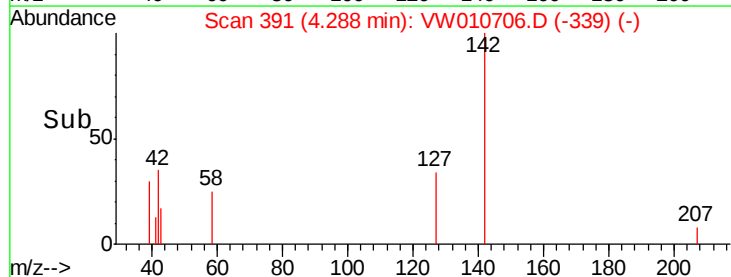
150

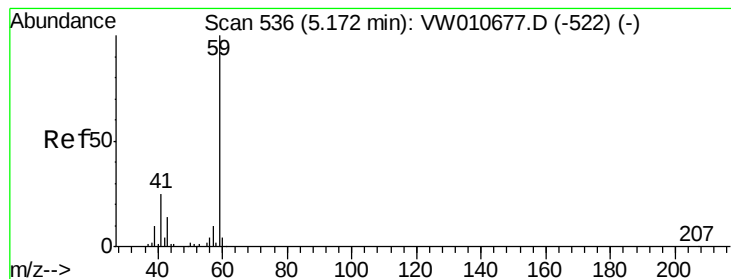
100

50

0

Time--> 4.20 4.25 4.30



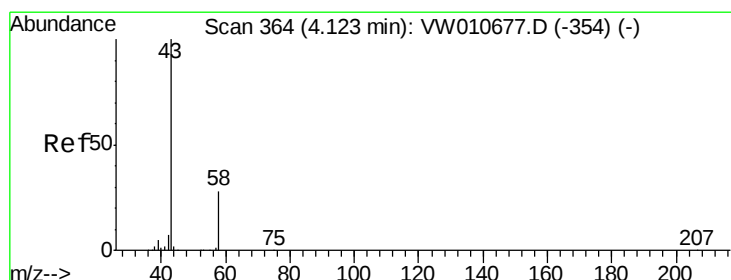
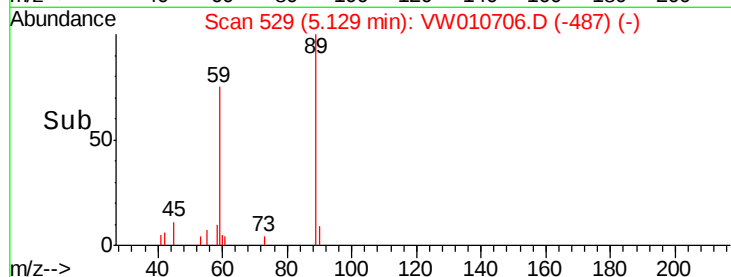
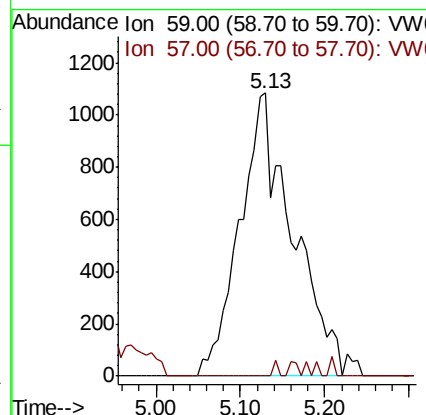
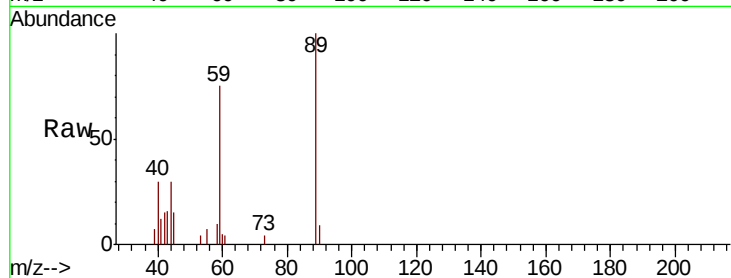


#11

Tert butyl alcohol  
 Concen: 21.946 ug/l  
 RT: 5.13 min Scan# 529  
 Delta R.T. -0.04 min  
 Lab File: VW010706.D  
 Acq: 06 Jun 2019 13:31

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 MSVOA\_W  
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 TT-008-IDW/ISO-20190605

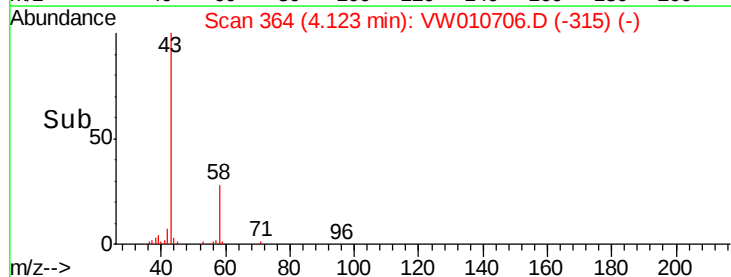
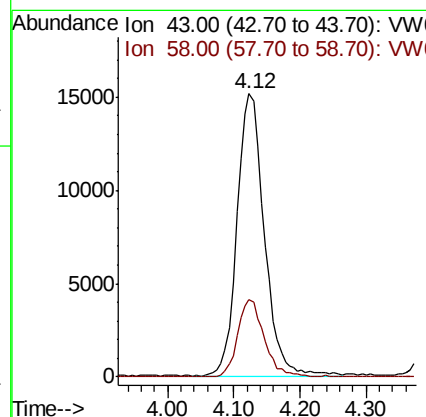
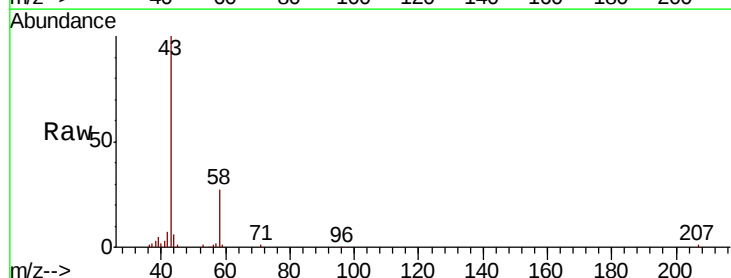
Tot Ion: 59 Resp: 4644  
 Ion Ratio Lower Upper  
 59 100  
 57 0.5 8.6 12.8#

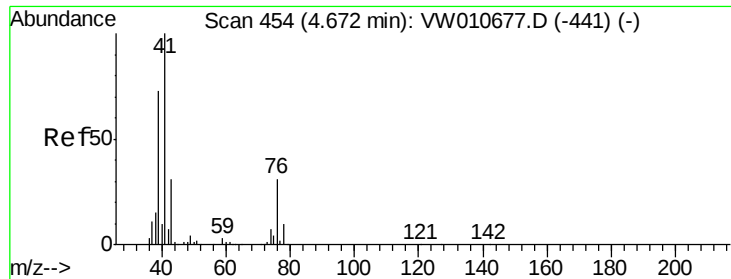


#16

Acetone  
 Concen: 63.206 ug/l  
 RT: 4.12 min Scan# 364  
 Delta R.T. 0.00 min  
 Lab File: VW010706.D  
 Acq: 06 Jun 2019 13:31

Tgt Ion: 43 Resp: 43990  
 Ion Ratio Lower Upper  
 43 100  
 58 27.4 22.1 33.1

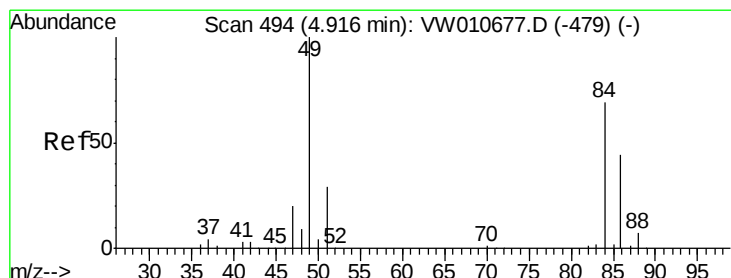
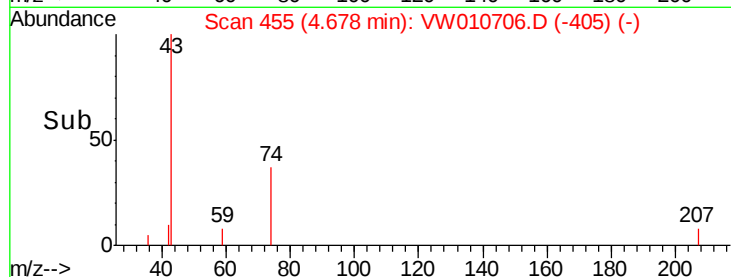
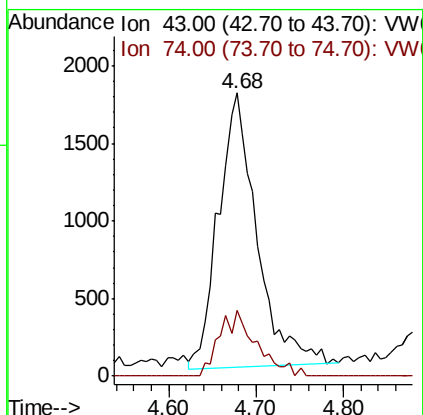
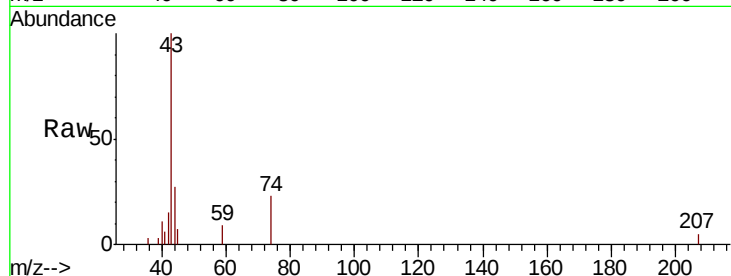




#18  
Methyl Acetate  
Concen: 3.619 ug/l  
RT: 4.68 min Scan# 455  
Delta R.T. 0.01 min  
Lab File: VW010706.D  
Acq: 06 Jun 2019 13:31

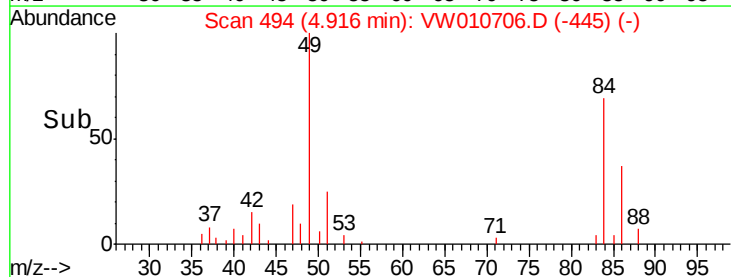
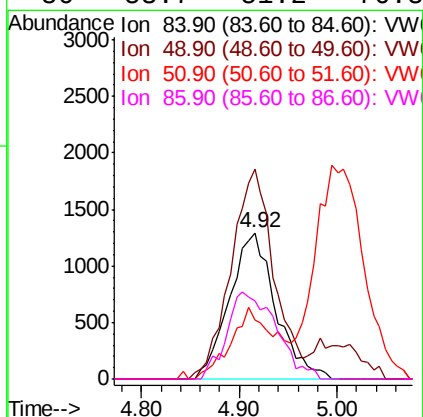
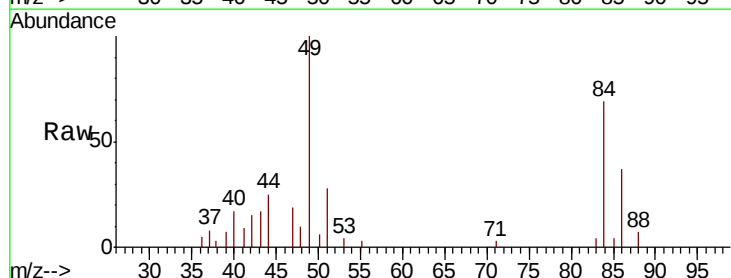
Instrument :  
MSVOA\_W  
ClientSampleId :  
TT-008-IDW/ISO-20190605

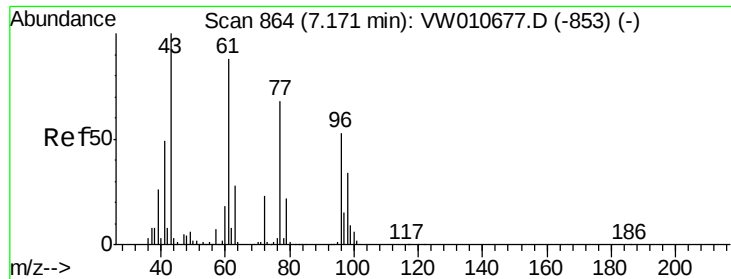
Tot Ion: 43 Resp: 5422  
Ion Ratio Lower Upper  
43 100  
74 23.1 16.7 25.1



#20  
Methylene Chloride  
Concen: 1.736 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW010706.D  
Acq: 06 Jun 2019 13:31

Tgt Ion: 84 Resp: 4238  
Ion Ratio Lower Upper  
84 100  
49 144.0 116.7 175.1  
51 40.2 34.2 51.2  
86 53.7 51.2 76.8





#25

2-Butanone

Concen: 3.019 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.04 min

Lab File: VW010706.D

Acq: 06 Jun 2019 13:31

Instrument :

MSVOA\_W

ClientSampleId :

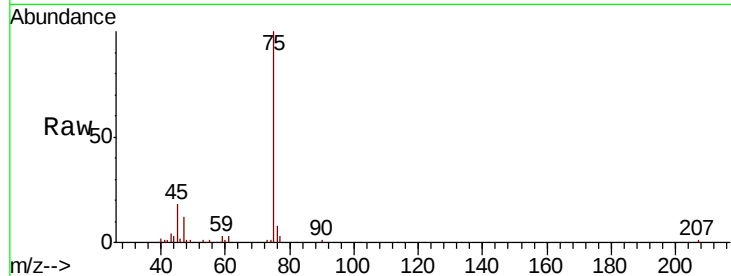
TT-008-IDWSO-20190605

Tot Ion: 43 Resp: 2914

Ion Ratio Lower Upper

43 100

72 0.0 18.1 27.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.13

800

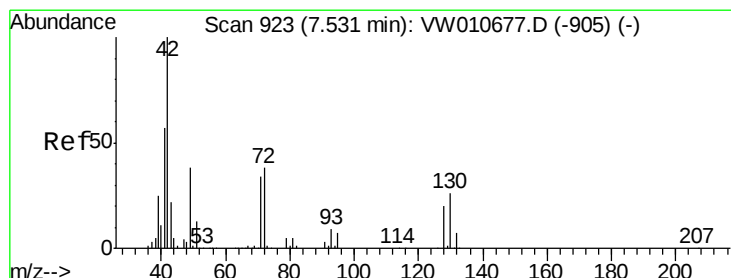
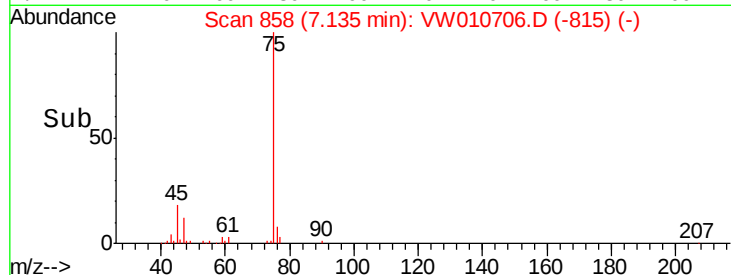
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 1.336 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW010706.D

Acq: 06 Jun 2019 13:31

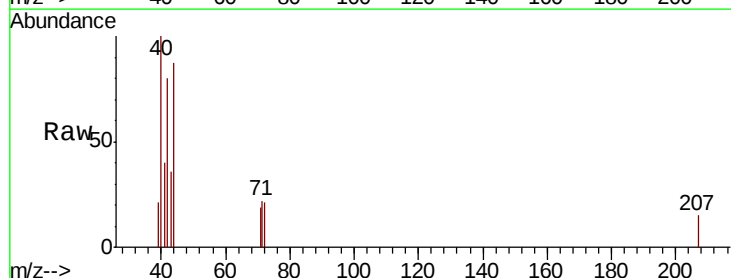
Tgt Ion: 42 Resp: 811

Ion Ratio Lower Upper

42 100

72 10.7 28.7 43.1#

71 20.8 26.6 39.8#



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

7.55

400

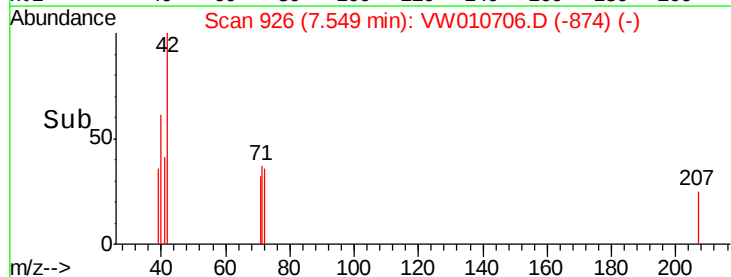
300

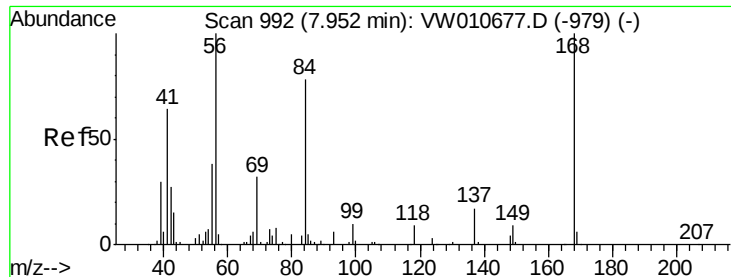
200

100

0

Time-->

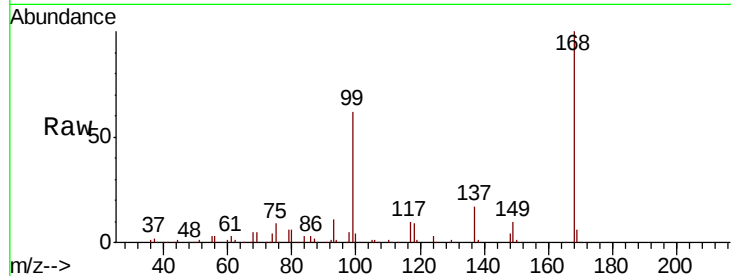




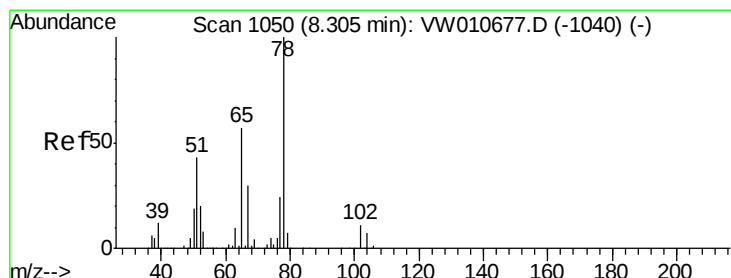
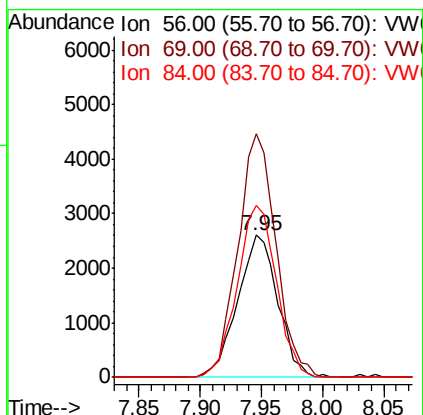
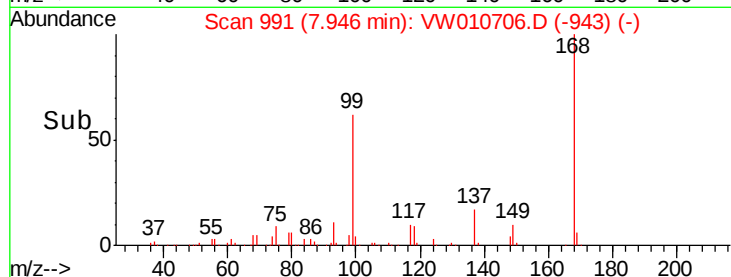
#31  
Cyclohexane  
Concen: 1.132 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW010706.D  
Acq: 06 Jun 2019 13:31

Instrument :  
MSVOA\_W  
ClientSampleId :  
TT-008-IDWSO-20190605

Tot Ion: 56 Resp: 5931  
Ion Ratio Lower Upper  
56 100  
69 171.0 25.2 37.8#  
84 120.4 62.2 93.2#

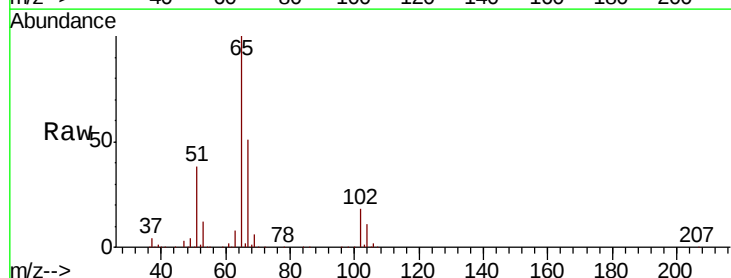


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

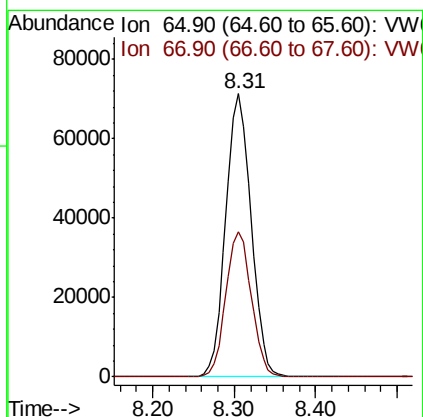
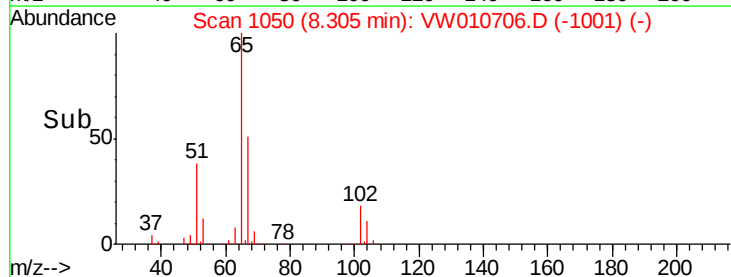


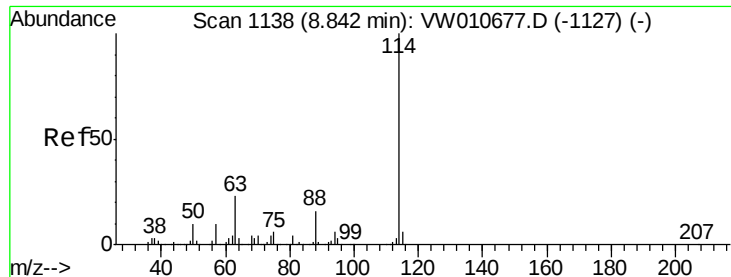
#33  
1,2-Dichloroethane-d4  
Concen: 59.050 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VW010706.D  
Acq: 06 Jun 2019 13:31

Tgt Ion: 65 Resp: 153378  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 102.6



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

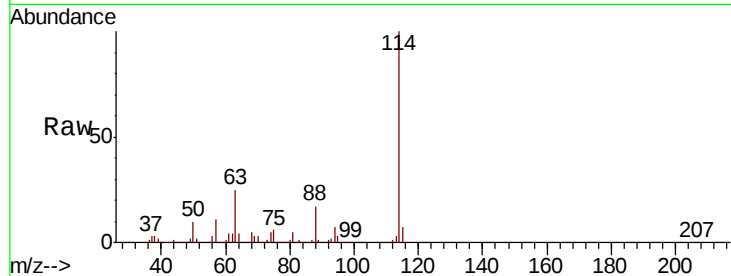




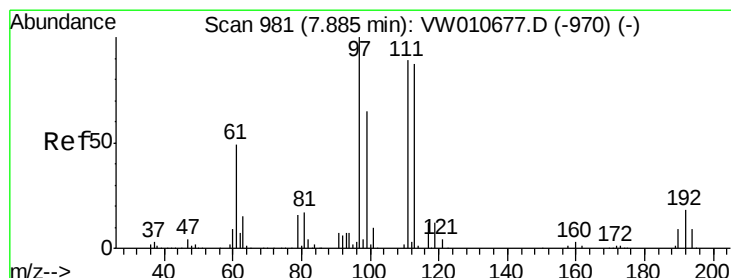
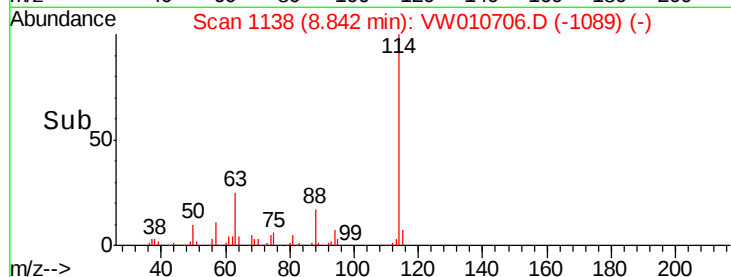
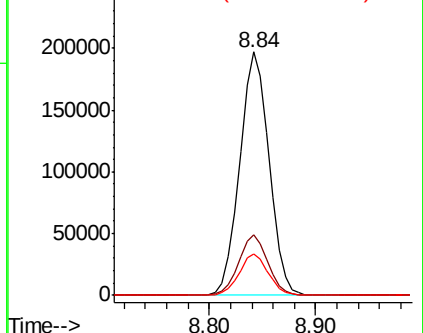
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. 0.00 min  
Lab File: VW010706.D  
Acq: 06 Jun 2019 13:31

Instrument :  
MSVOA\_W  
ClientSampleId :  
TT-008-IDW/ISO-20190605

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.9  | 0.0   | 46.4  |
| 88      | 16.7  | 0.0   | 32.2  |

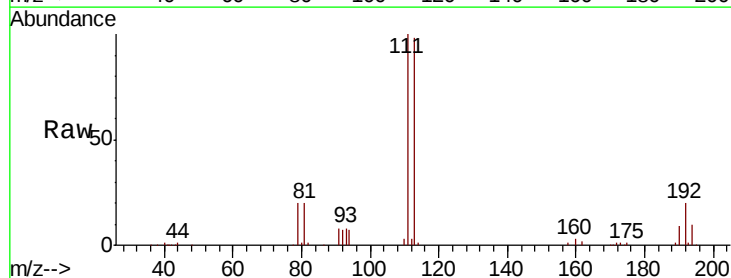


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

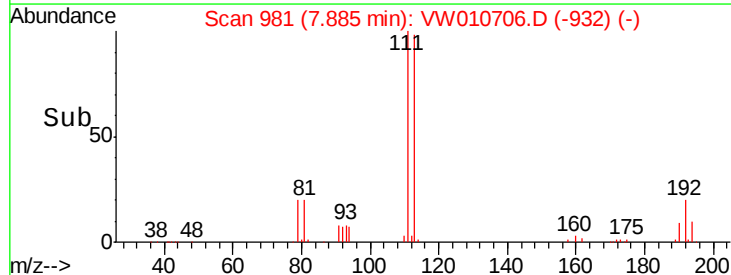
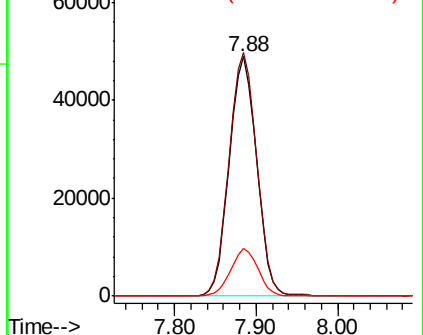


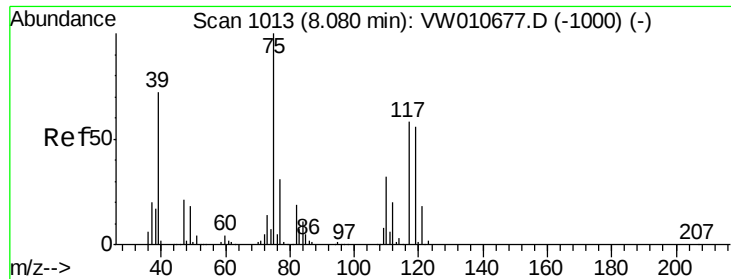
#35  
Dibromofluoromethane  
Concen: 54.599 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: VW010706.D  
Acq: 06 Jun 2019 13:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.6 | 82.6  | 123.8 |
| 192     | 19.8  | 16.4  | 24.6  |



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: 5.018 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW010706.D

Acq: 06 Jun 2019 13:31

Instrument :

MSVOA\_W

ClientSampleId :

TT-008-IDWSO-20190605

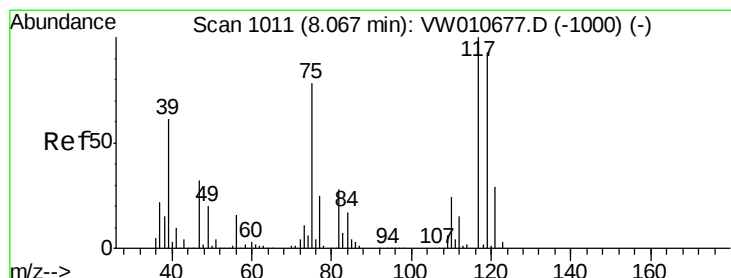
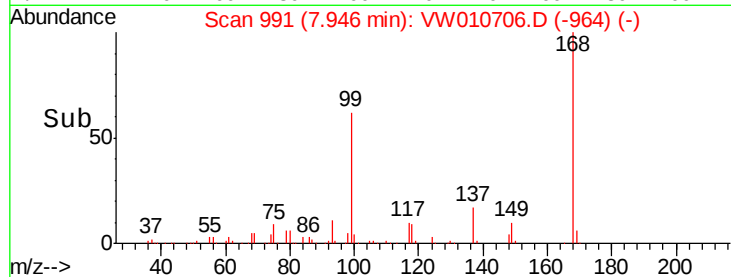
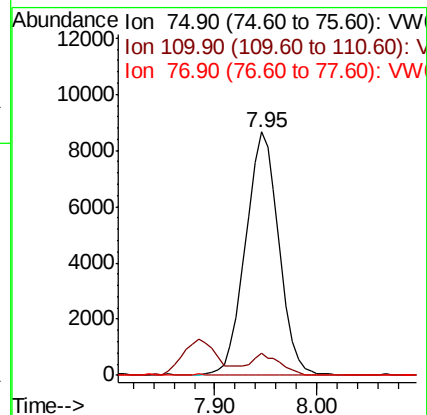
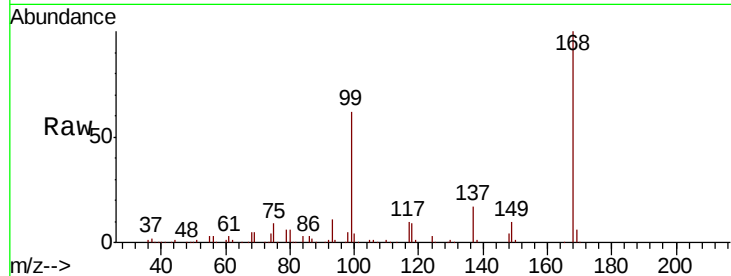
Tot Ion: 75 Resp: 19640

Ion Ratio Lower Upper

75 100

110 8.2 15.8 47.3#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.493 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010706.D

Acq: 06 Jun 2019 13:31

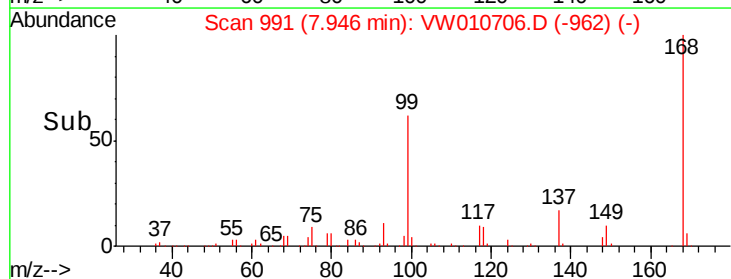
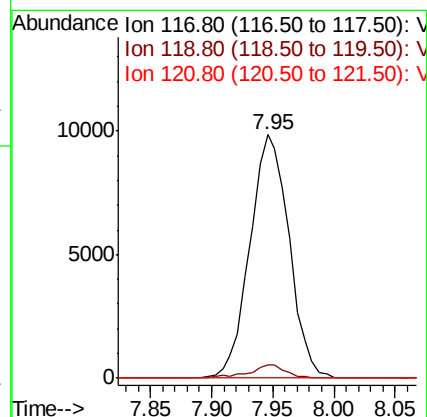
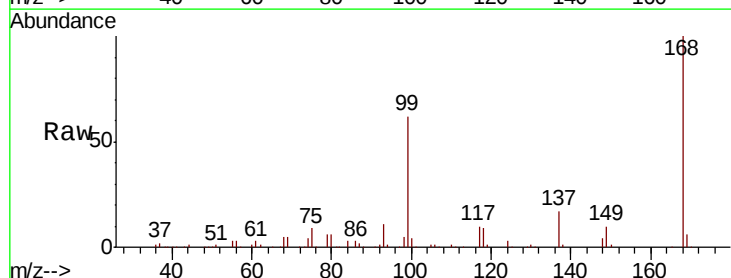
Tgt Ion: 117 Resp: 21940

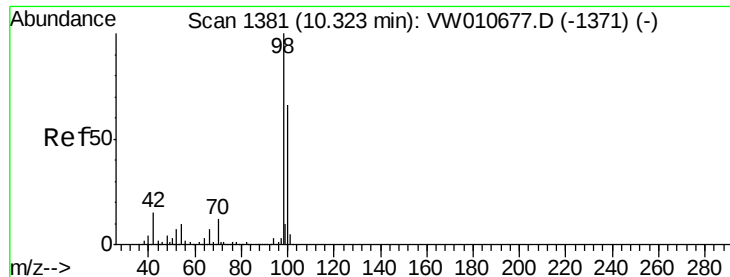
Ion Ratio Lower Upper

117 100

119 5.6 74.2 111.4#

121 0.0 22.9 34.3#





#50

Toluene-d8

Concen: 55.094 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010706.D

Acq: 06 Jun 2019 13:31

Instrument :

MSVOA\_W

ClientSampleId :

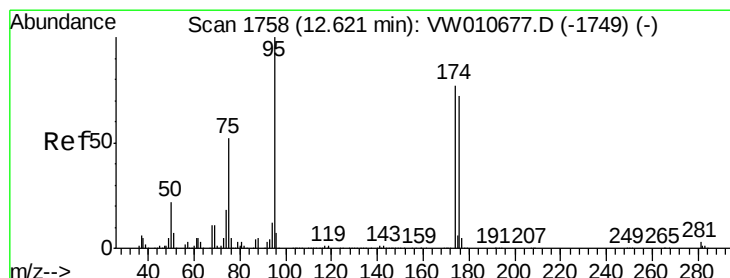
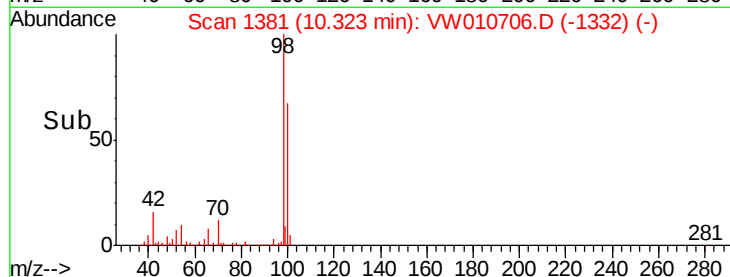
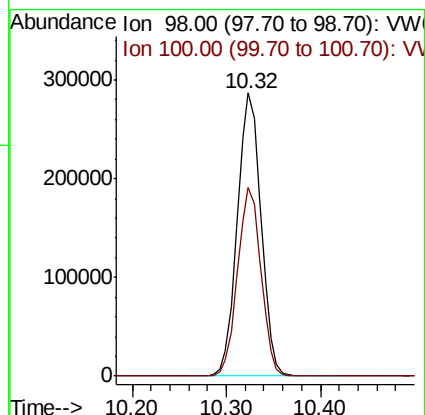
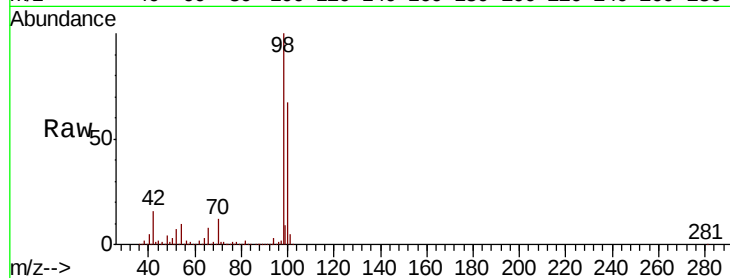
TT-008-IDWSO-20190605

Tot Ion: 98 Resp: 501420

Ion Ratio Lower Upper

98 100

100 65.9 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 52.991 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010706.D

Acq: 06 Jun 2019 13:31

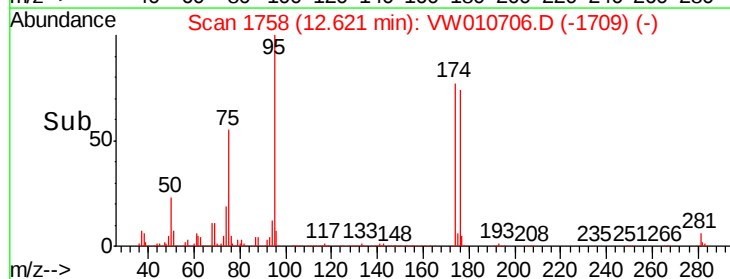
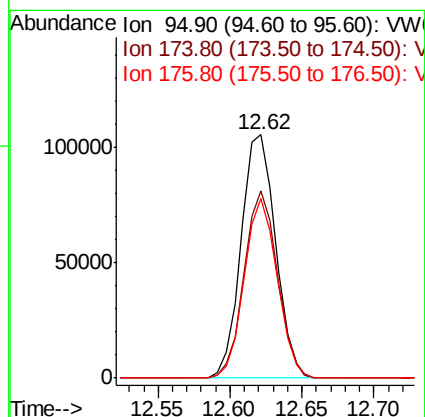
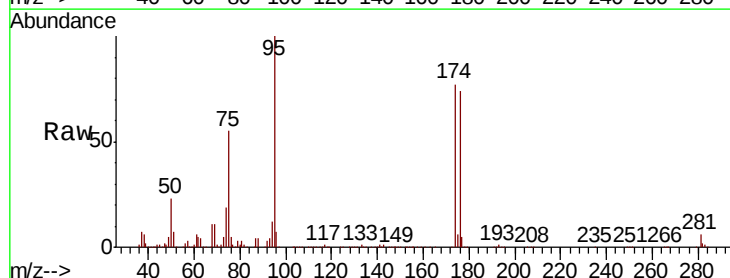
Tgt Ion: 95 Resp: 175493

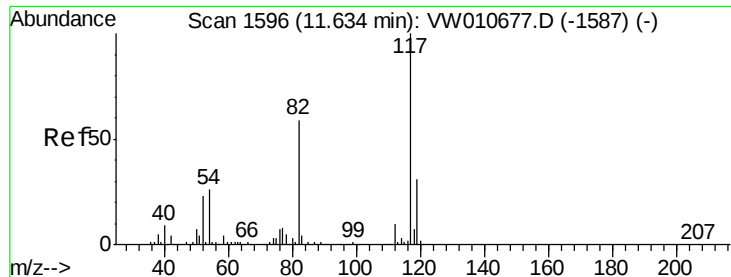
Ion Ratio Lower Upper

95 100

174 74.1 0.0 150.4

176 70.6 0.0 144.8

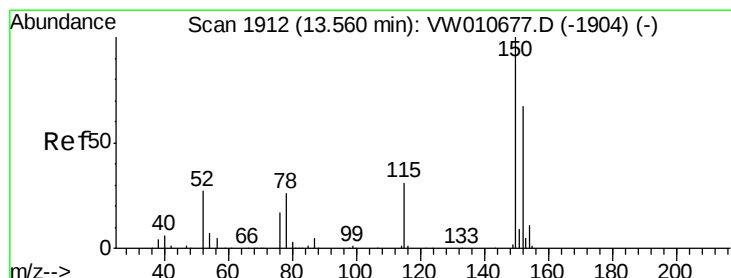
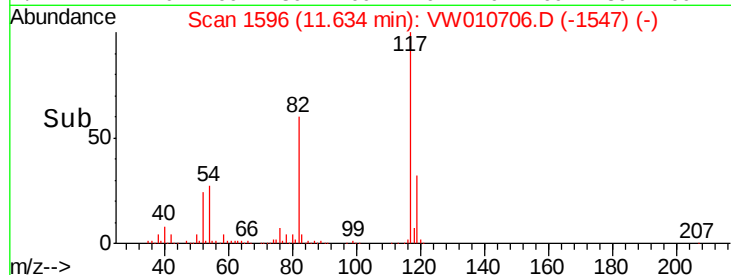
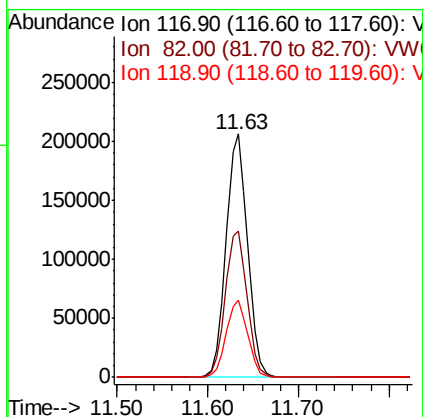
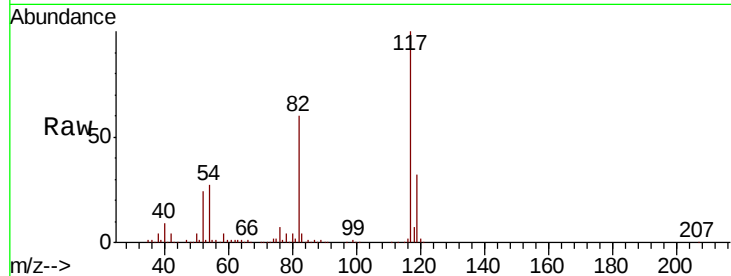




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW010706.D  
Acq: 06 Jun 2019 13:31

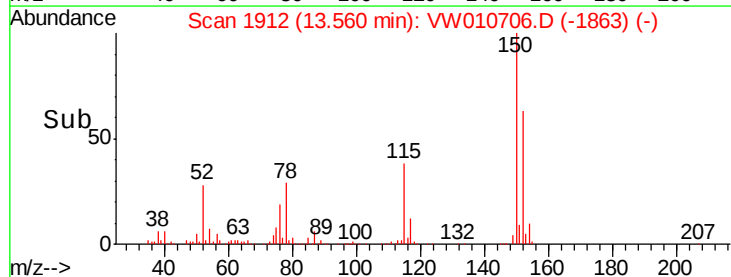
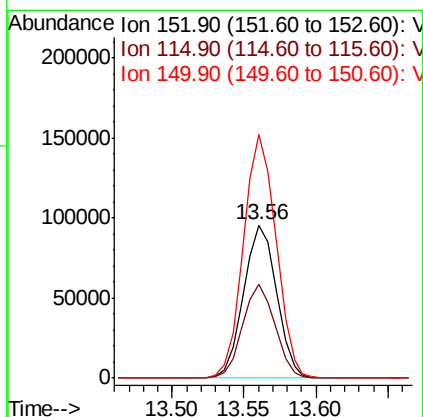
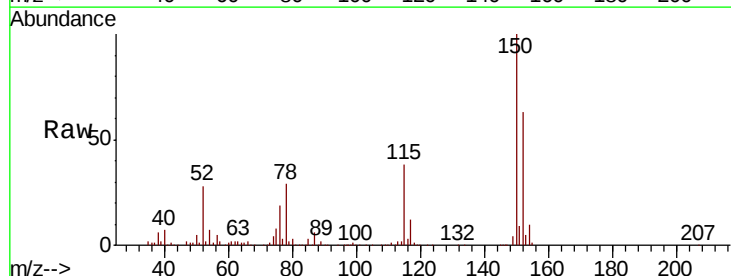
Instrument :  
MSVOA\_W  
ClientSampleId :  
TT-008-IDW/ISO-20190605

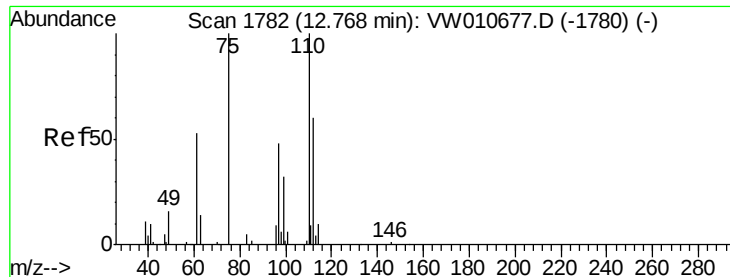
Tot Ion:117 Resp: 338657  
Ion Ratio Lower Upper  
117 100  
82 60.1 47.0 70.4  
119 31.6 25.1 37.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW010706.D  
Acq: 06 Jun 2019 13:31

Tgt Ion:152 Resp: 151210  
Ion Ratio Lower Upper  
152 100  
115 60.2 29.8 89.3  
150 157.4 0.0 345.0

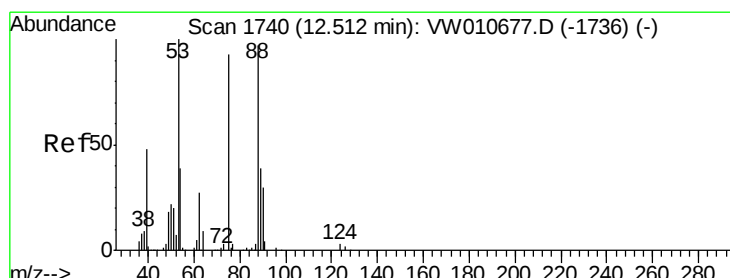
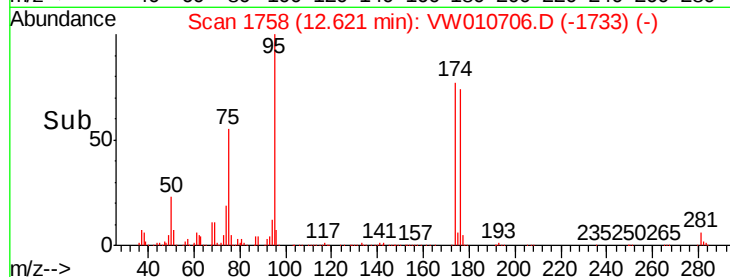
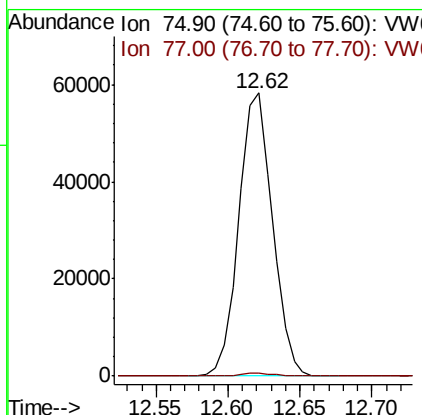
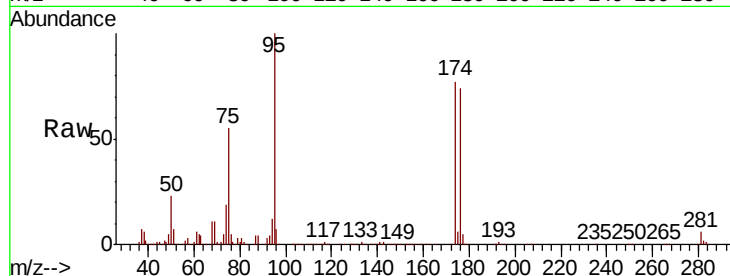




#76  
 1,2,3-Trichloropropane  
 Concen: 59.525 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW010706.D  
 Acq: 06 Jun 2019 13:31

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TT-008-IDWSO-20190605

Tot Ion: 75 Resp: 94521  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 136.809 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.11 min  
 Lab File: VW010706.D  
 Acq: 06 Jun 2019 13:31

Tgt Ion: 75 Resp: 94521  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.1 135.1#  
 89 0.0 34.6 52.0#

