

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121118\  
 Data File : VW007386.D  
 Acq On : 11 Dec 2018 06:33  
 Operator : SY/AP  
 Sample : J6331-31  
 Misc : 5.25G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-6

Quant Time: Dec 11 07:04:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 87647    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 159667   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 146158   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 67513    | 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   | 42761    | 43.98 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.96% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 39177    | 40.53 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.06% |          |
| 50) Toluene-d8              | 10.32 | 98   | 135596   | 37.42 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.84% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 52542    | 39.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.86% |          |

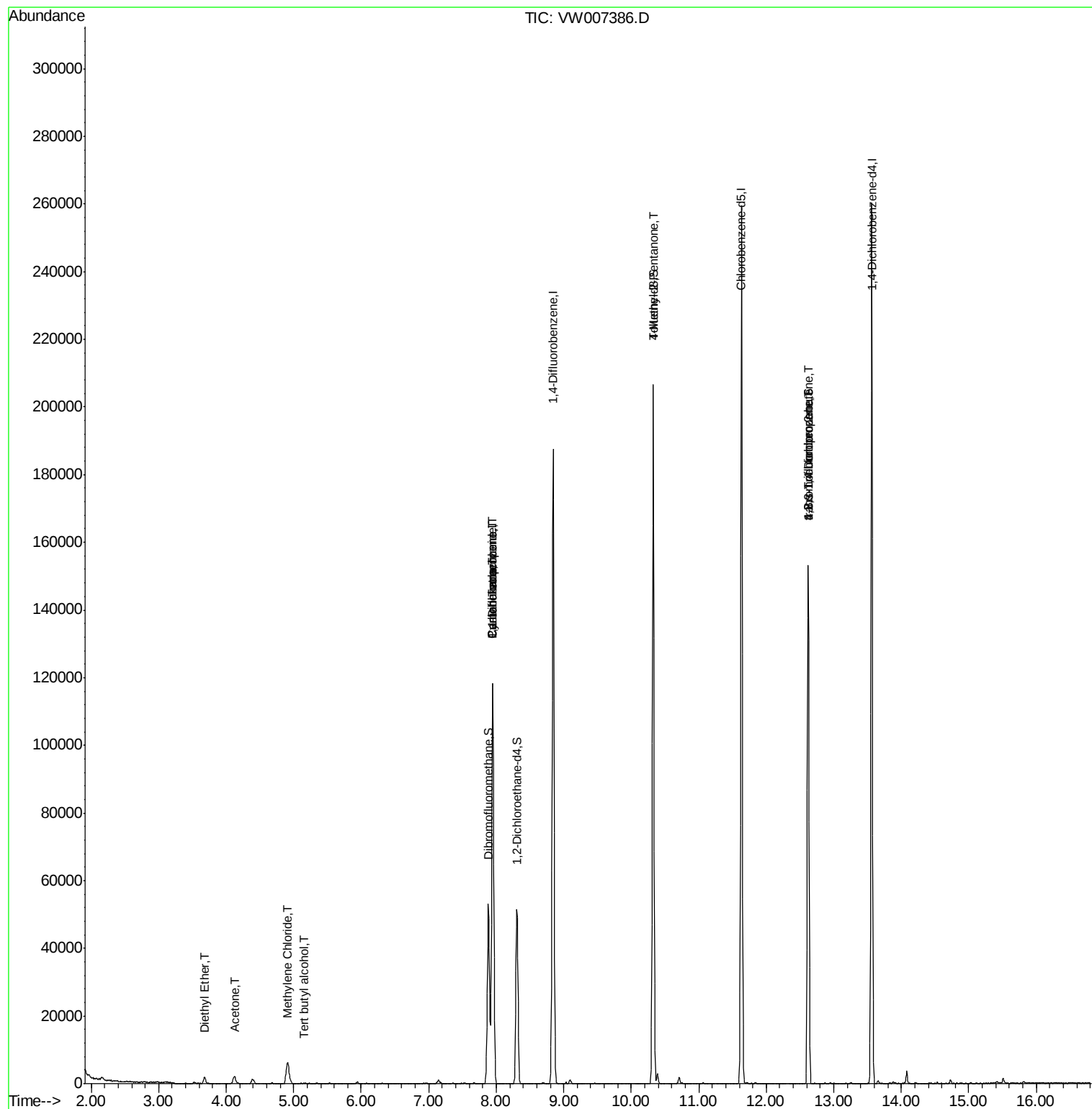
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 1152     | 2.720   | ug/l   | 97     |
| 11) Tert butyl alcohol         | 5.16  | 59   | 183      | 2.740   | ug/l # | 74     |
| 16) Acetone                    | 4.13  | 43   | 3979     | 23.427  | ug/l   | 95     |
| 20) Methylene Chloride         | 4.90  | 84   | 5166     | 1.784   | ug/l   | 94     |
| 31) Cyclohexane                | 7.95  | 56   | 1809     | 1.198   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 6804     | 4.671   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 9109     | 5.748   | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 596      | 1.179   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 26471    | 47.553  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 26471    | 105.045 | ug/l # | 7      |

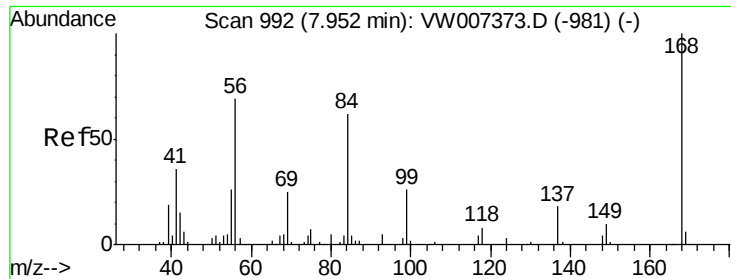
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 11 07:04:52 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007386.D

Acq: 11 Dec 2018 06:33

Instrument :

MSVOA\_W

ClientSampled :

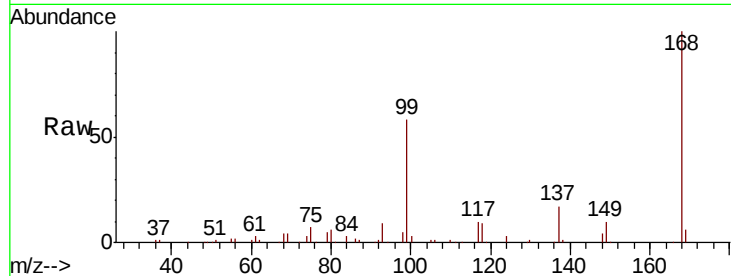
TP-6

Tgt Ion: 168 Resp: 87647

Ion Ratio Lower Upper

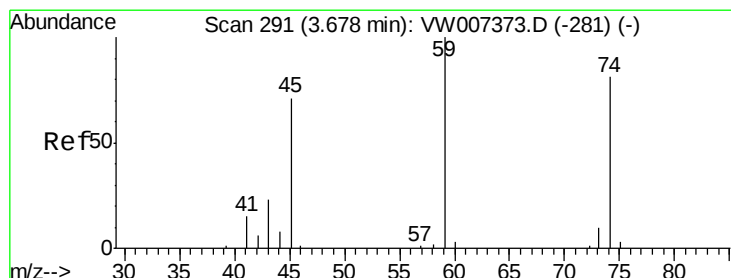
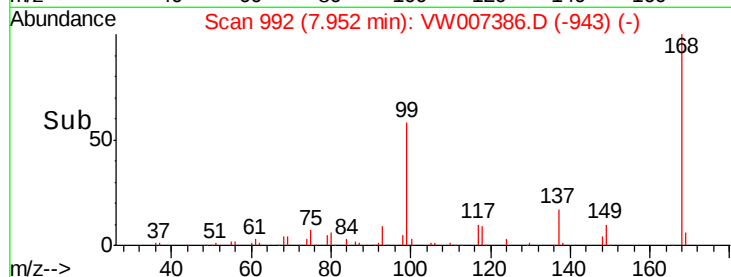
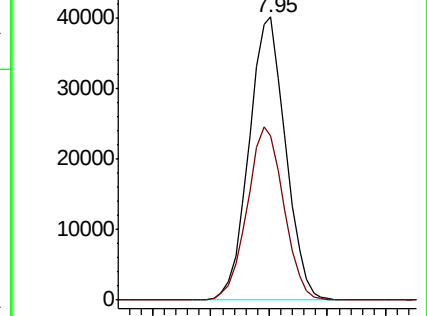
168 100

99 58.0 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.720 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW007386.D

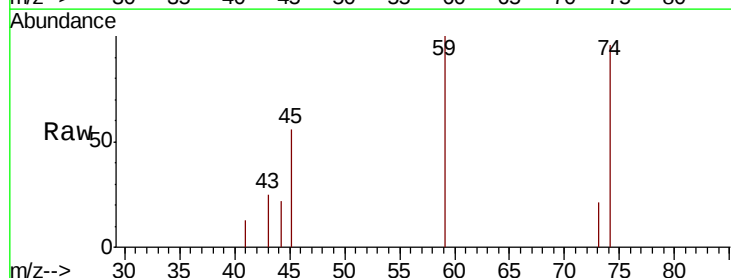
Acq: 11 Dec 2018 06:33

Tgt Ion: 74 Resp: 1152

Ion Ratio Lower Upper

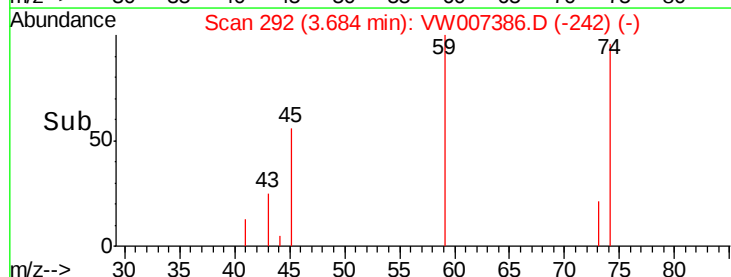
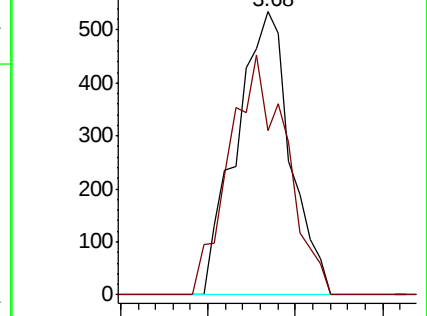
74 100

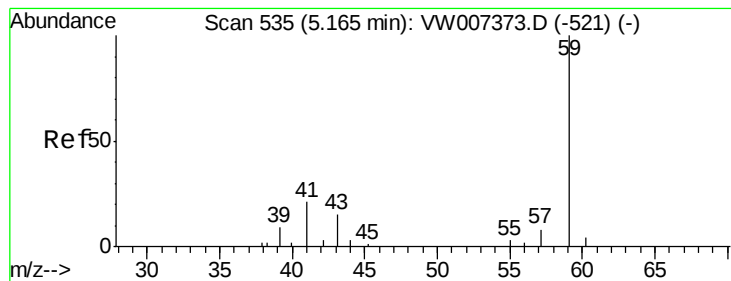
45 88.5 43.0 129.0



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



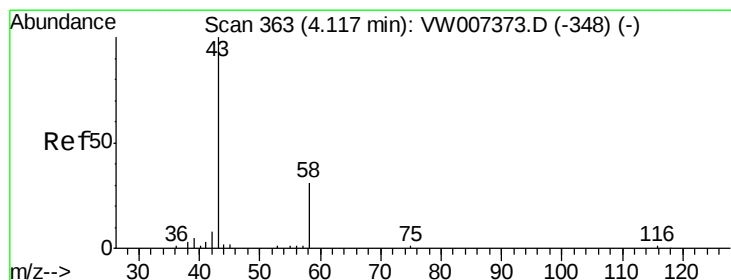
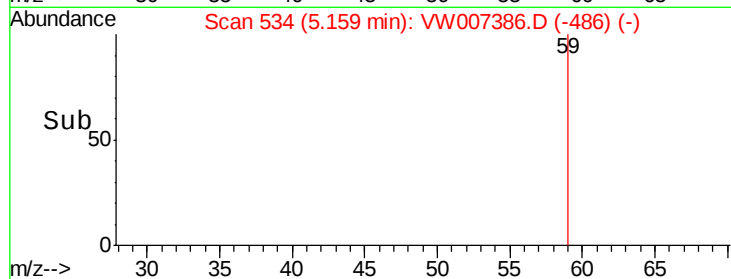
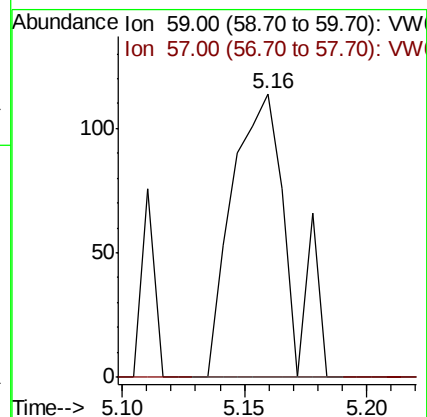
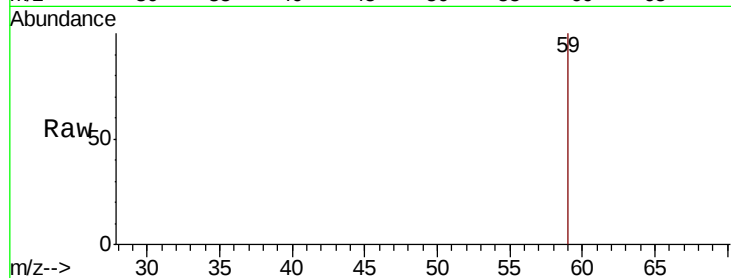


#11

Tert butyl alcohol  
 Concen: 2.740 ug/l  
 RT: 5.16 min Scan# 534  
 Delta R.T. -0.01 min  
 Lab File: VW007386.D  
 Acq: 11 Dec 2018 06:33

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-6

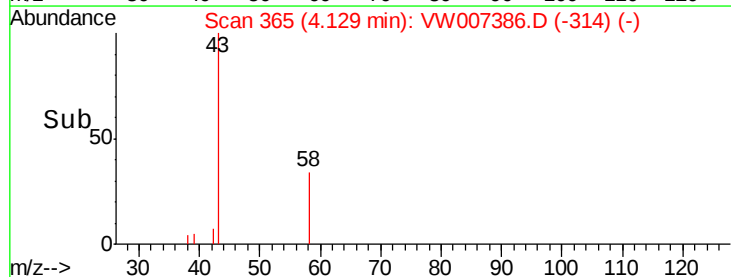
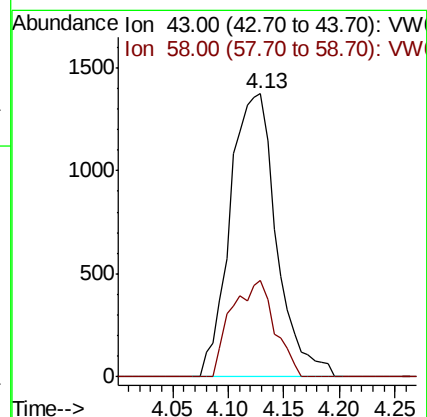
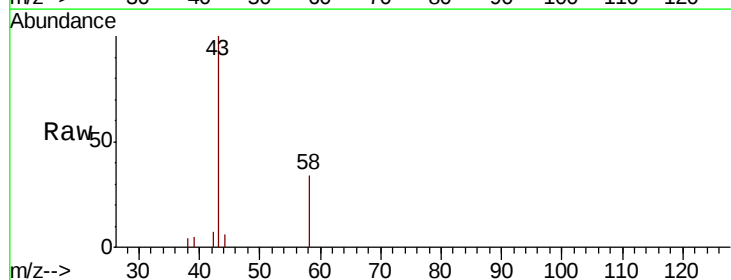
Tgt Ion: 59 Resp: 183  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.6 11.4#

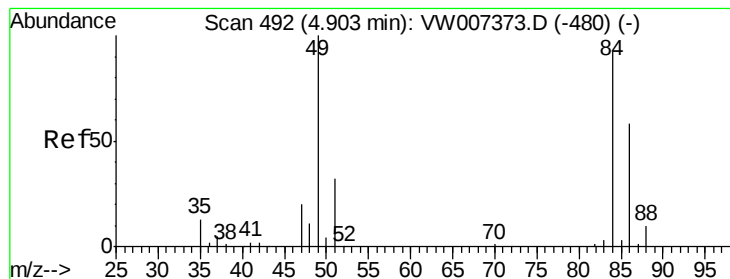


#16

Acetone  
 Concen: 23.427 ug/l  
 RT: 4.13 min Scan# 365  
 Delta R.T. 0.01 min  
 Lab File: VW007386.D  
 Acq: 11 Dec 2018 06:33

Tgt Ion: 43 Resp: 3979  
 Ion Ratio Lower Upper  
 43 100  
 58 33.9 24.9 37.3





#20

Methylene Chloride

Concen: 1.784 ug/l

RT: 4.90 min Scan# 492

Delta R.T. 0.00 min

Lab File: VW007386.D

Acq: 11 Dec 2018 06:33

Instrument :

MSVOA\_W

ClientSampleId :

TP-6

Tgt Ion: 84 Resp: 5166

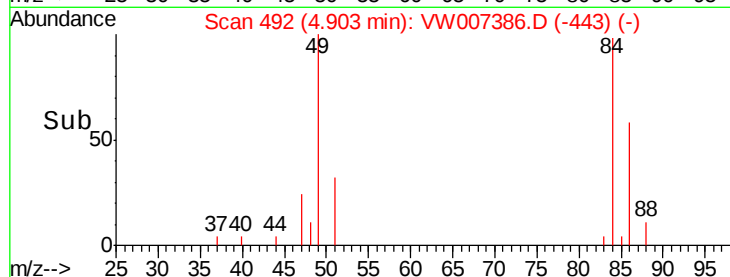
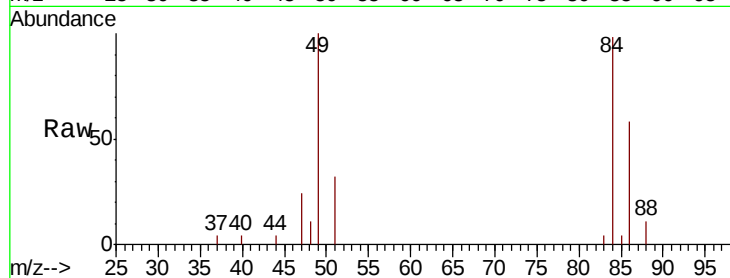
Ion Ratio Lower Upper

84 100

49 102.5 87.1 130.7

51 32.5 28.2 42.2

86 59.5 50.8 76.2



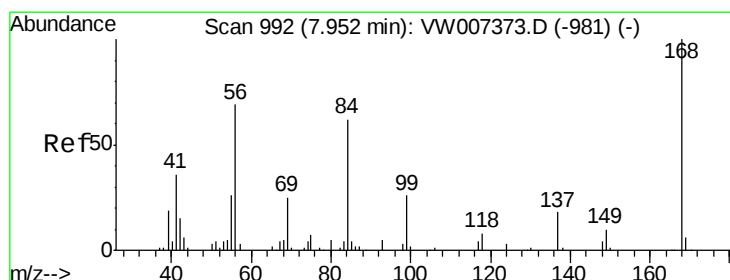
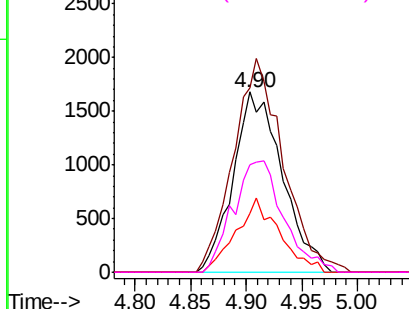
Abundance

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



#31

Cyclohexane

Concen: 1.198 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007386.D

Acq: 11 Dec 2018 06:33

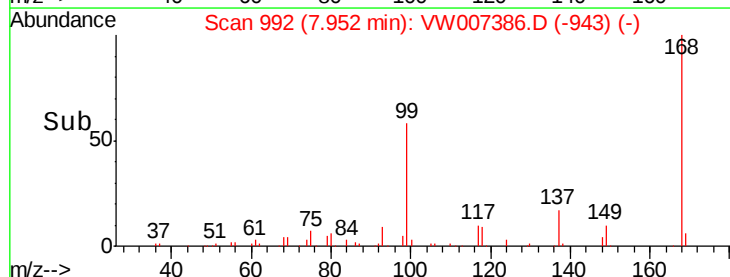
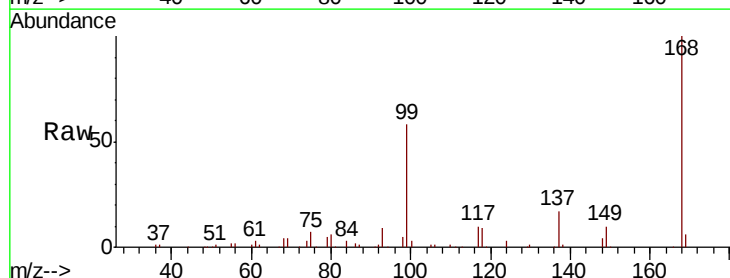
Tgt Ion: 56 Resp: 1809

Ion Ratio Lower Upper

56 100

69 173.9 28.9 43.3#

84 145.3 71.8 107.6#

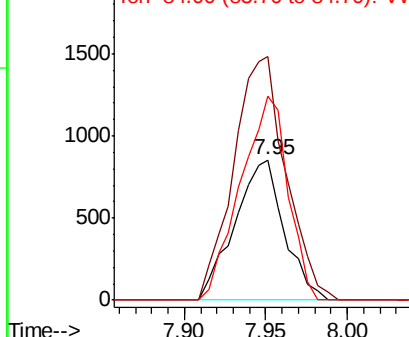


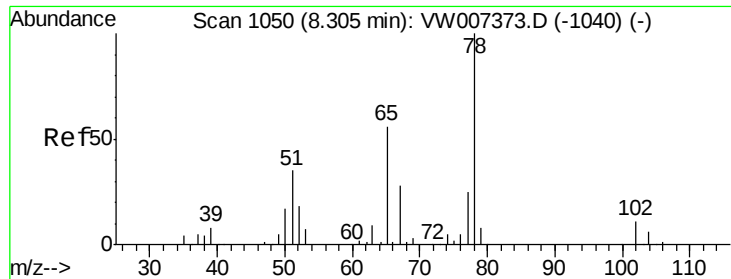
Abundance

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

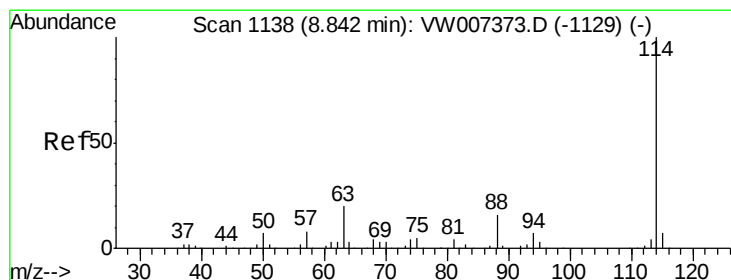
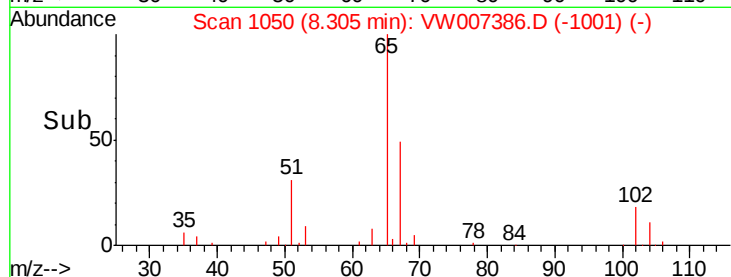
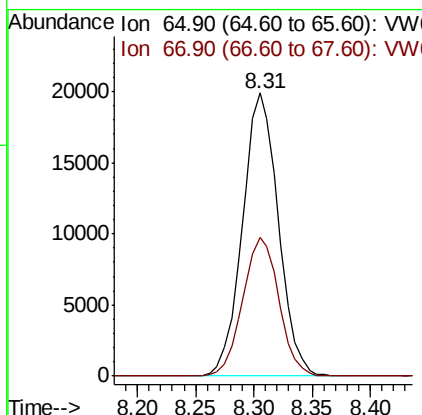
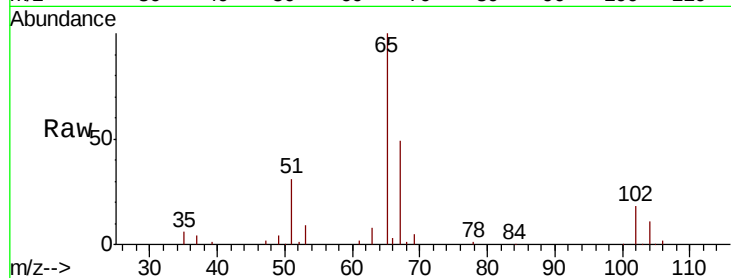




#33  
 1,2-Dichloroethane-d4  
 Concen: 43.976 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW007386.D  
 Acq: 11 Dec 2018 06:33

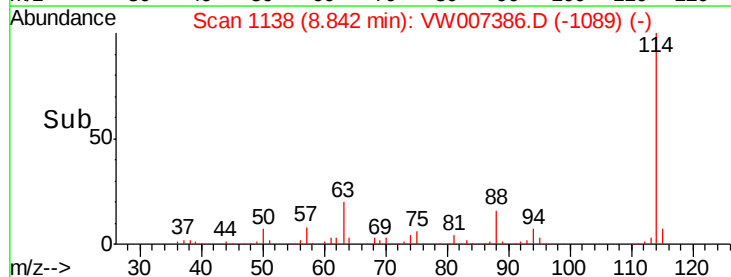
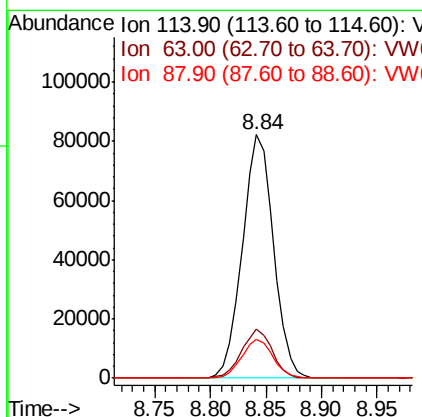
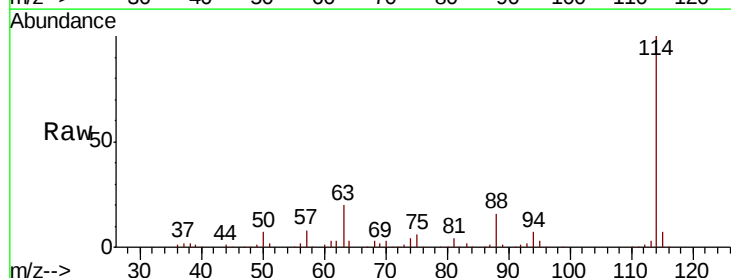
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-6

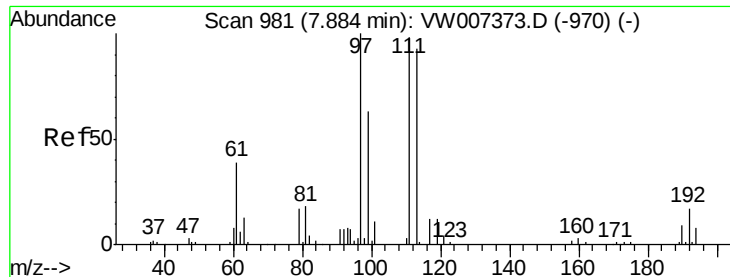
Tgt Ion: 65 Resp: 42761  
 Ion Ratio Lower Upper  
 65 100  
 67 49.5 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW007386.D  
 Acq: 11 Dec 2018 06:33

Tgt Ion: 114 Resp: 159667  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 39.6  
 88 15.8 0.0 31.4

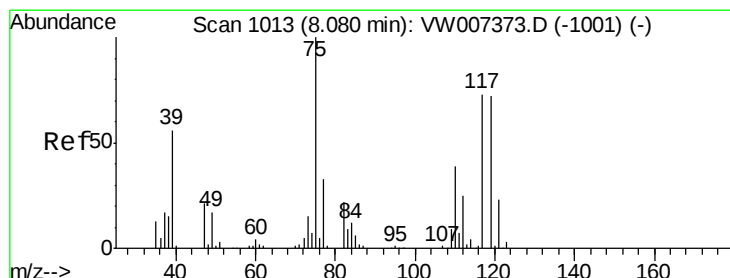
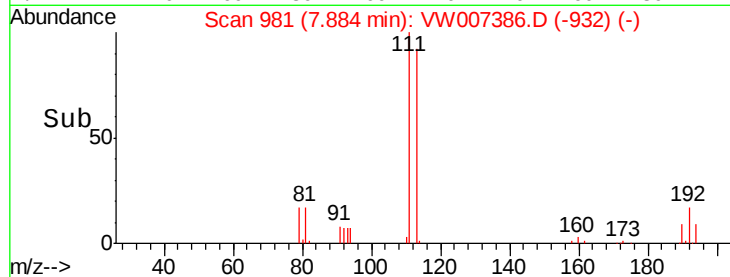
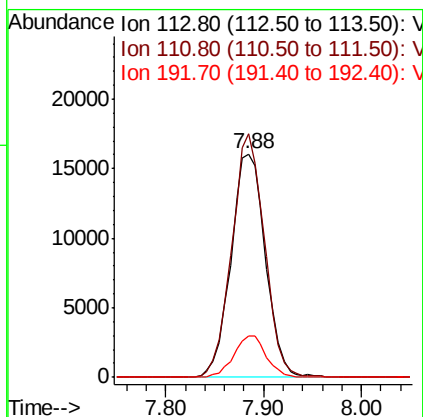
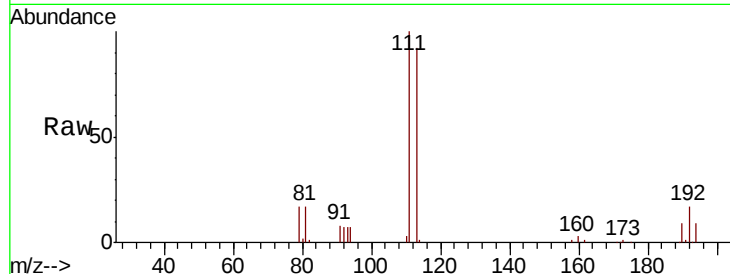




#35  
 Dibromofluoromethane  
 Concen: 40.534 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW007386.D  
 Acq: 11 Dec 2018 06:33

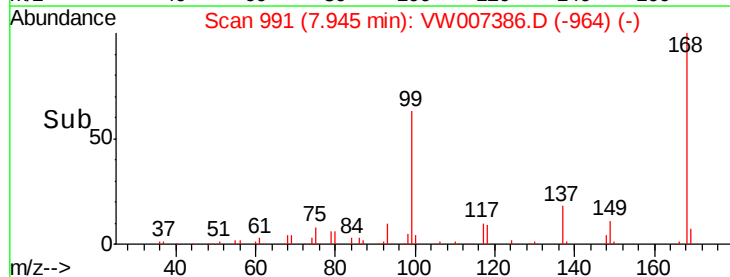
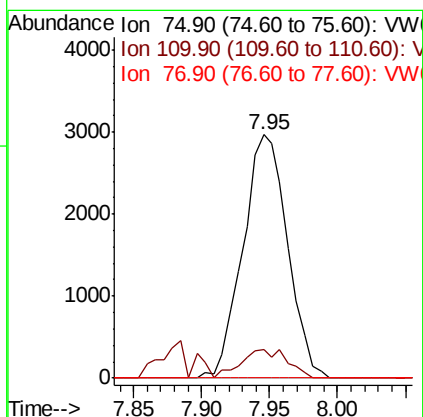
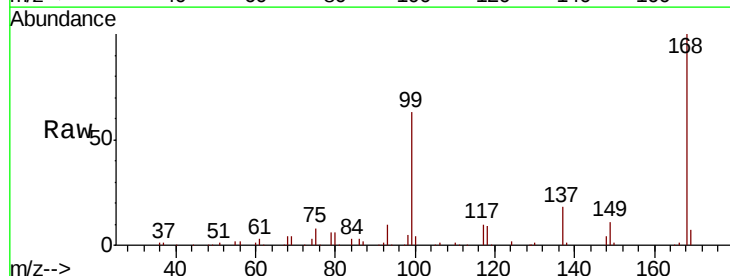
Instrument :  
 MSVOA\_W  
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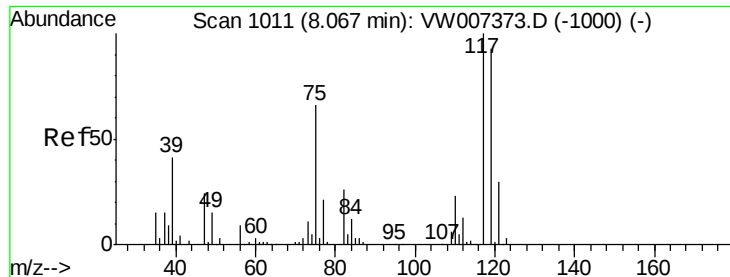
Tgt Ion: 113 Resp: 39177  
 Ion Ratio Lower Upper  
 113 100  
 111 103.1 81.1 121.7  
 192 17.3 14.6 21.8



#36  
 1,1-Dichloropropene  
 Concen: 4.671 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW007386.D  
 Acq: 11 Dec 2018 06:33

Tgt Ion: 75 Resp: 6804  
 Ion Ratio Lower Upper  
 75 100  
 110 12.2 18.5 55.5#  
 77 0.0 25.6 38.4#

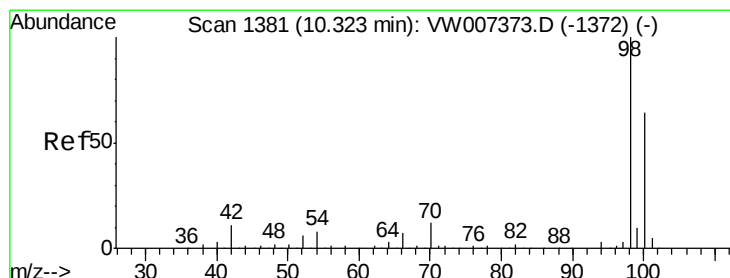
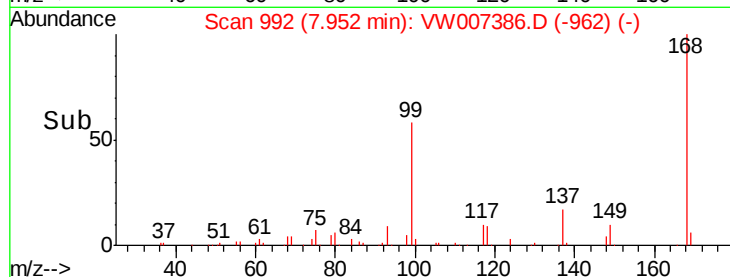
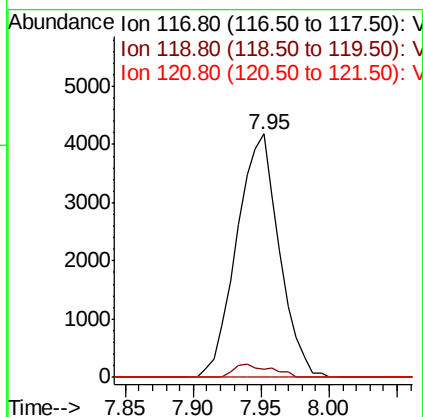
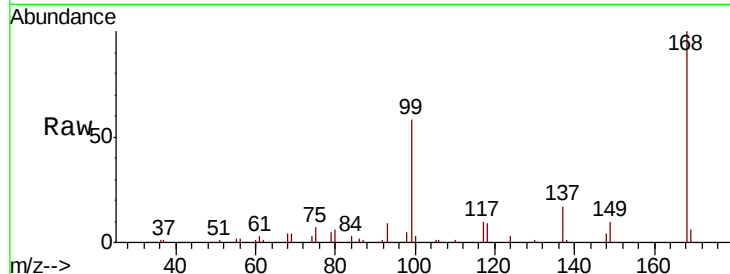




#38  
Carbon Tetrachloride  
Concen: 5.748 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW007386.D  
Acq: 11 Dec 2018 06:33

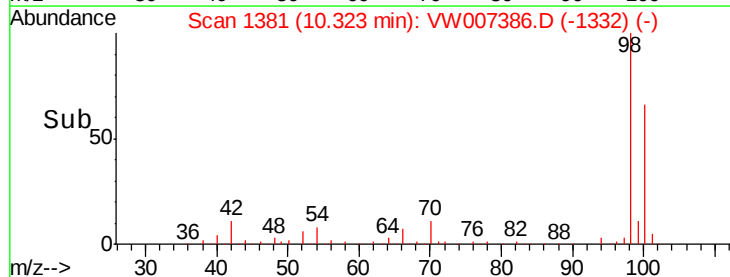
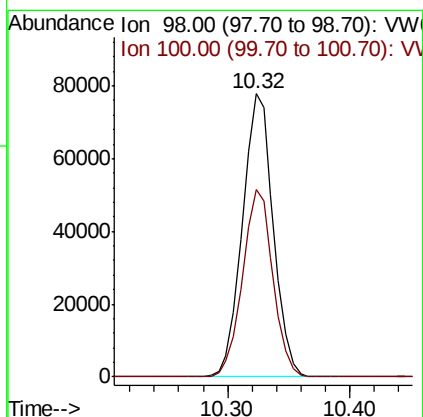
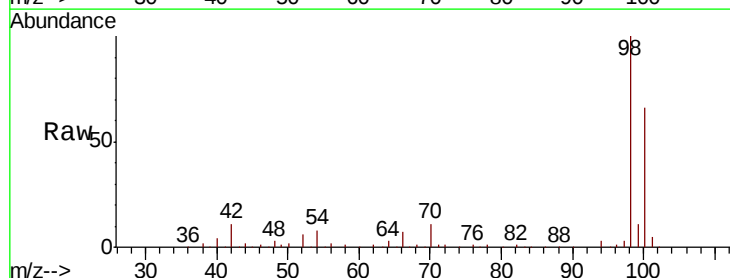
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-6

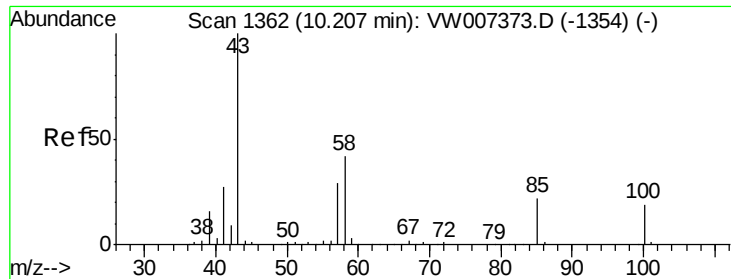
Tgt Ion: 117 Resp: 9109  
Ion Ratio Lower Upper  
117 100  
119 3.3 74.3 111.5#  
121 0.0 24.3 36.5#



#50  
Toluene-d8  
Concen: 37.417 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW007386.D  
Acq: 11 Dec 2018 06:33

Tgt Ion: 98 Resp: 135596  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.179 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW007386.D

Acq: 11 Dec 2018 06:33

Instrument :

MSVOA\_W

ClientSampleId :

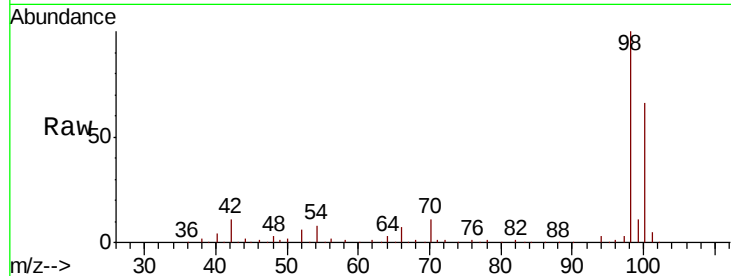
TP-6

Tgt Ion: 43 Resp: 596

Ion Ratio Lower Upper

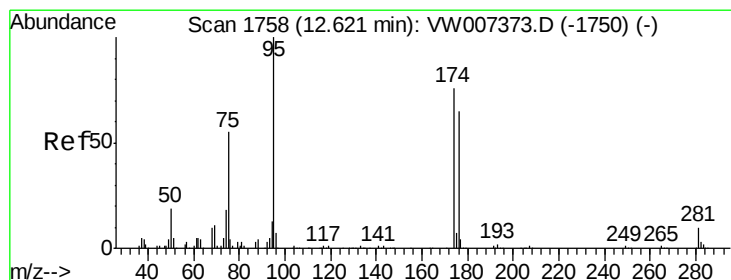
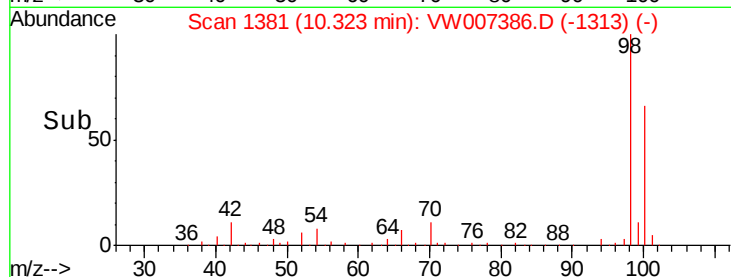
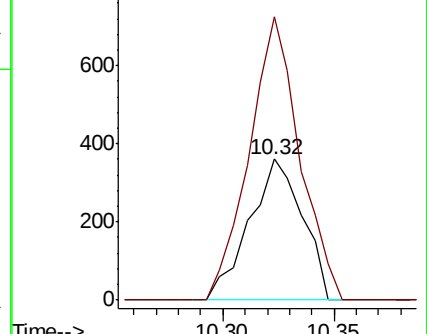
43 100

58 191.3 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 39.433 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007386.D

Acq: 11 Dec 2018 06:33

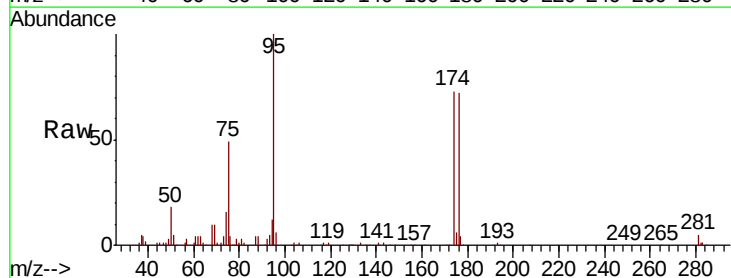
Tgt Ion: 95 Resp: 52542

Ion Ratio Lower Upper

95 100

174 76.0 0.0 147.2

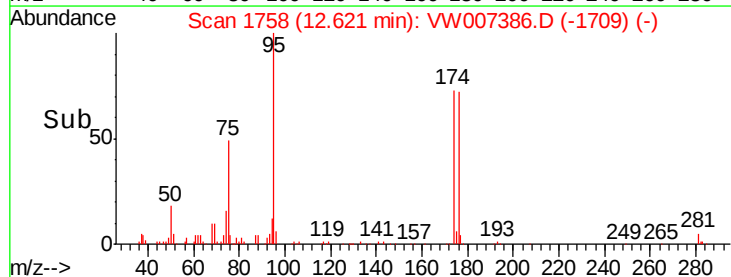
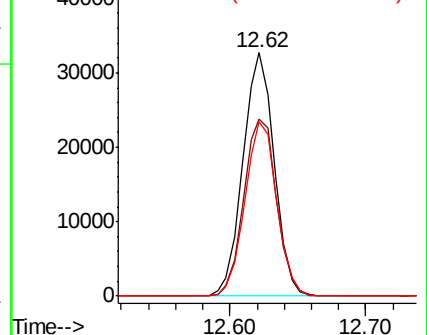
176 72.6 0.0 138.8

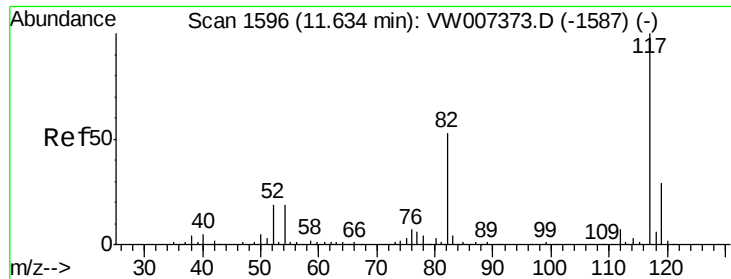


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

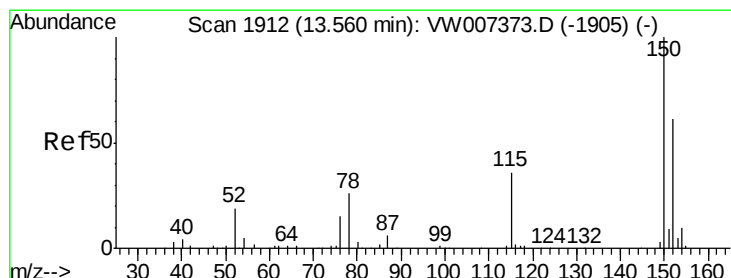
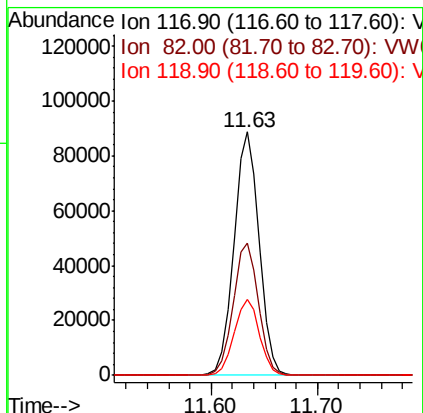
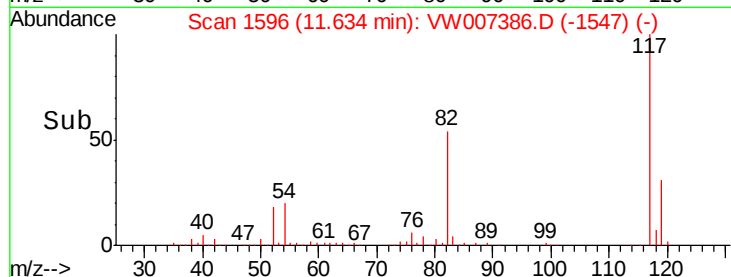
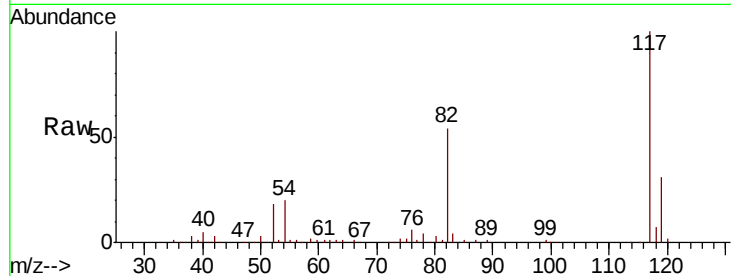




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007386.D  
Acq: 11 Dec 2018 06:33

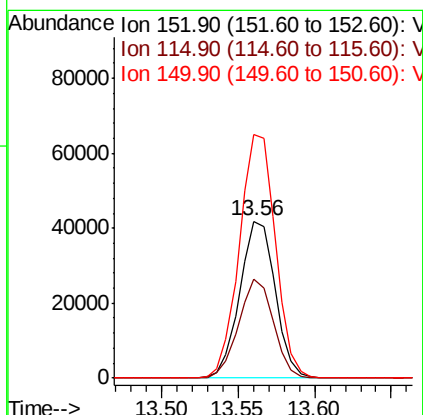
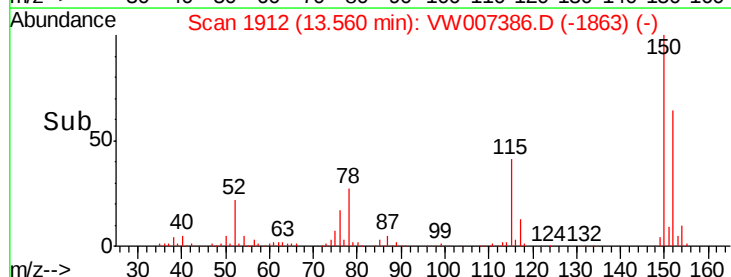
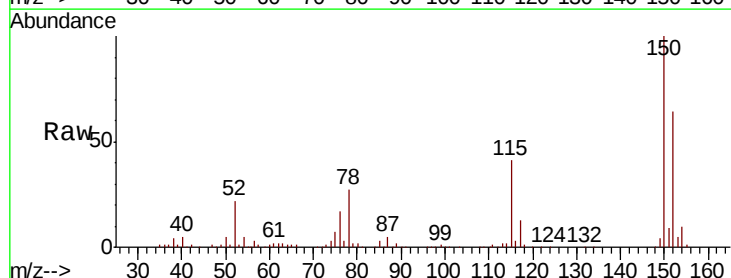
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-6

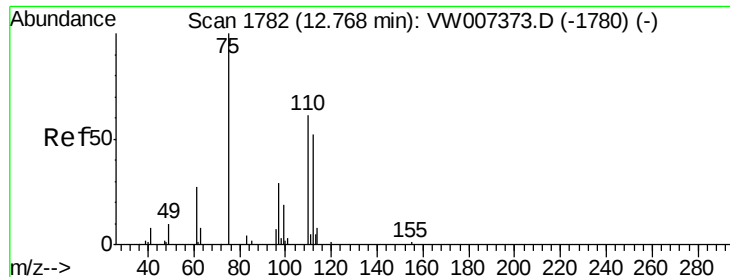
Tgt Ion:117 Resp: 146158  
Ion Ratio Lower Upper  
117 100  
82 54.2 42.3 63.5  
119 31.4 23.0 34.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW007386.D  
Acq: 11 Dec 2018 06:33

Tgt Ion:152 Resp: 67513  
Ion Ratio Lower Upper  
152 100  
115 61.8 31.4 94.2  
150 157.2 0.0 358.4





#76

1,2,3-Trichloropropane

Concen: 47.553 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007386.D

Acq: 11 Dec 2018 06:33

Instrument :

MSVOA\_W

ClientSampleId :

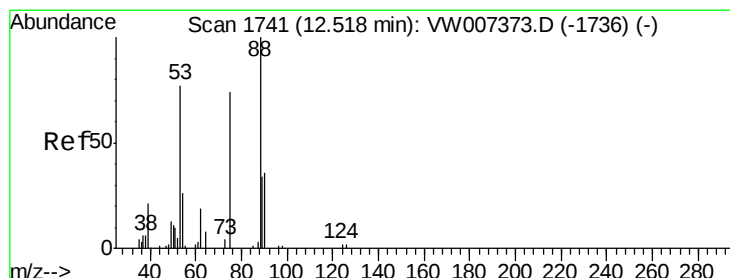
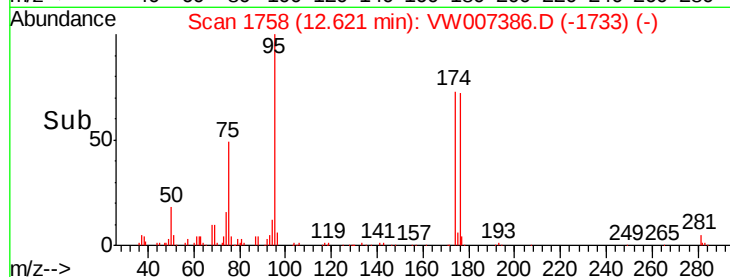
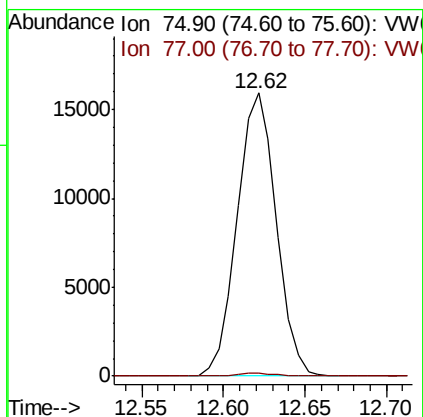
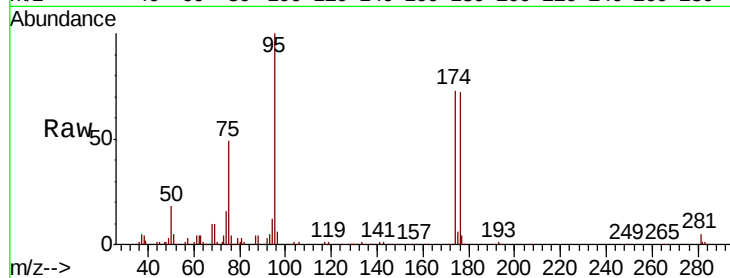
TP-6

Tgt Ion: 75 Resp: 26471

Ion Ratio Lower Upper

75 100

77 0.9 166.9 500.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 105.045 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007386.D

Acq: 11 Dec 2018 06:33

Tgt Ion: 75 Resp: 26471

Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#

