

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122318\  
 Data File : VW007818.D  
 Acq On : 22 Dec 2018 01:28  
 Operator : SY/AP  
 Sample : J6386-19RE  
 Misc : 5.55G/5ML/MSVOA W/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 22 02:00:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 51104    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 93250    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 64228    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 16814    | 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   | 33130    | 59.15 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 118.30% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 27130    | 47.69 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.38%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 73572    | 34.31 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 68.62%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 19911    | 24.03 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 48.06%  |          |

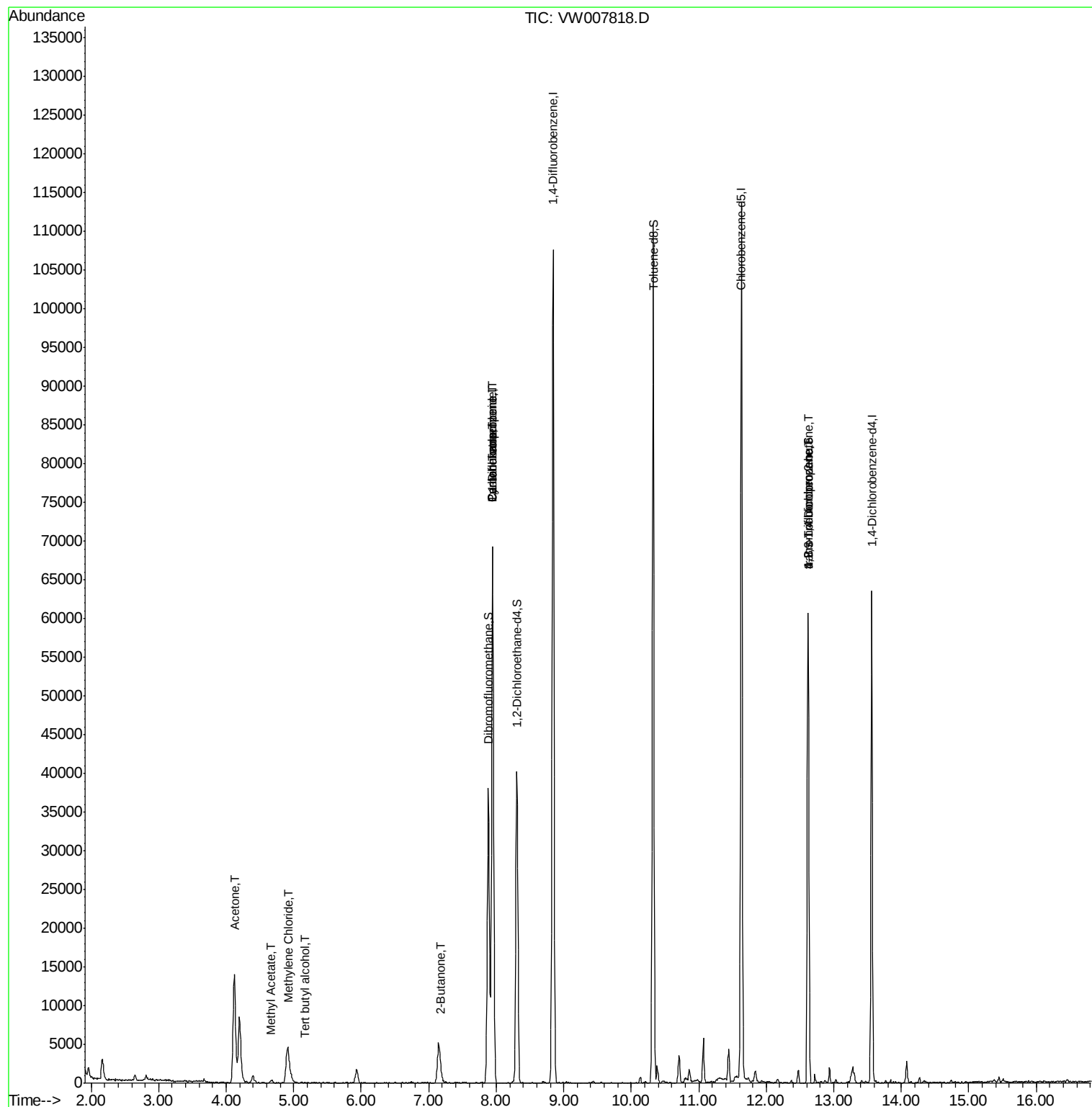
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 113      | 2.991   | ug/l # | 73     |
| 16) Acetone                    | 4.12  | 43   | 24498    | 233.563 | ug/l   | 96     |
| 18) Methyl Acetate             | 4.67  | 43   | 693      | 2.778   | ug/l # | 66     |
| 20) Methylene Chloride         | 4.91  | 84   | 4886     | 3.443   | ug/l # | 92     |
| 25) 2-Butanone                 | 7.18  | 43   | 2217     | 18.046  | ug/l   | 90     |
| 31) Cyclohexane                | 7.95  | 56   | 1055     | 1.265   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 3813     | 4.237   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 5204     | 4.910   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 9834     | 75.671  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 9834     | 158.840 | ug/l # | 9      |

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

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MSVOA\_W  
ClientSampleId :

Quant Time: Dec 22 02:00:07 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 06:30:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007818.D

Acq: 22 Dec 2018 01:28

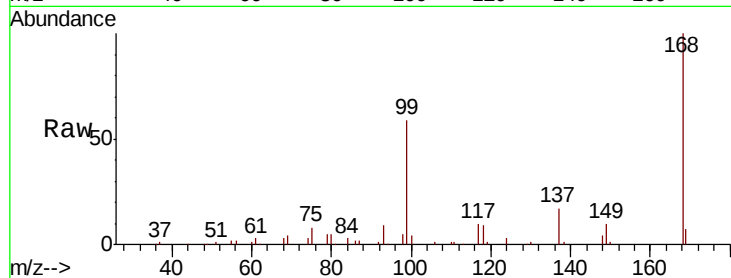
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 51104

Ion Ratio Lower Upper

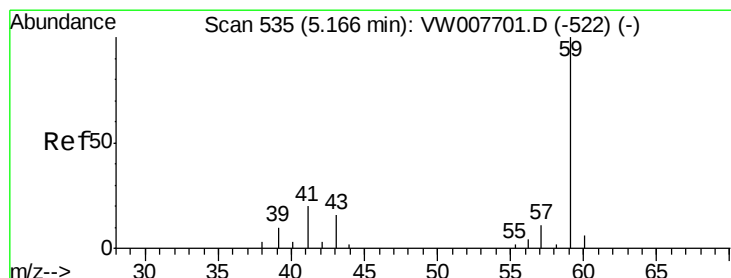
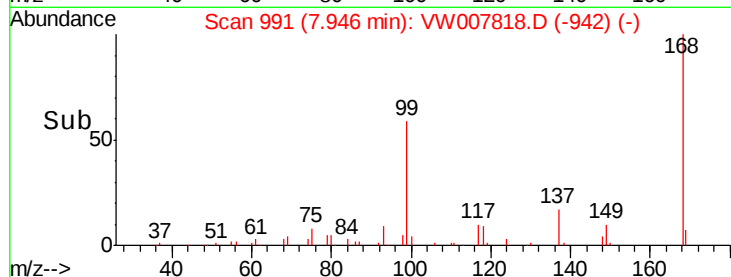
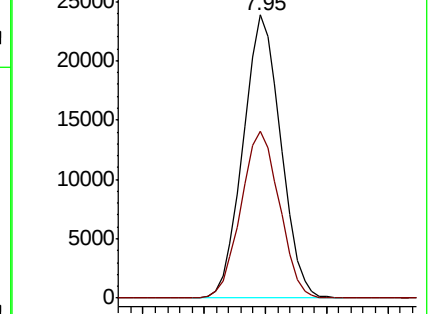
168 100

99 59.1 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.991 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW007818.D

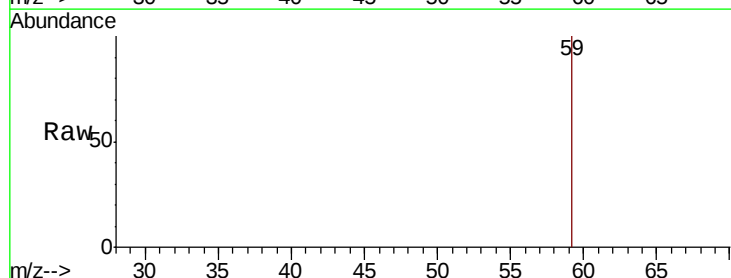
Acq: 22 Dec 2018 01:28

Tgt Ion: 59 Resp: 113

Ion Ratio Lower Upper

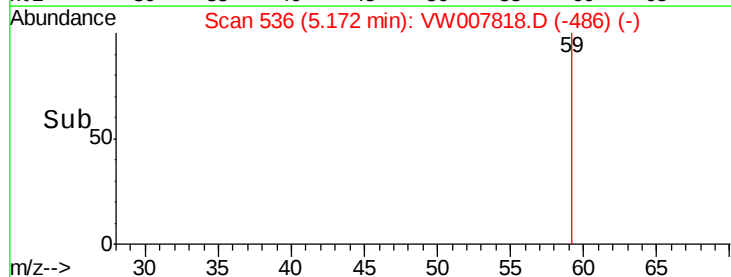
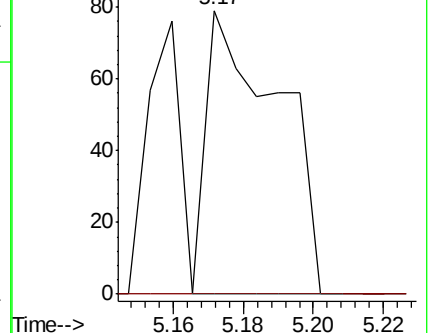
59 100

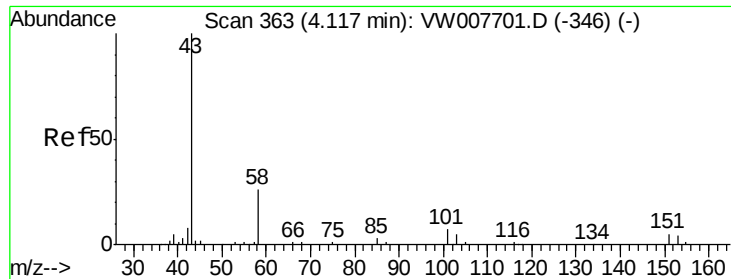
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 233.563 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW007818.D

Acq: 22 Dec 2018 01:28

Instrument :

MSVOA\_W

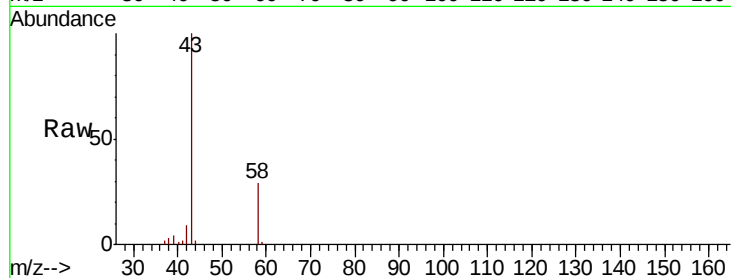
ClientSampled :

Tot Ion: 43 Resp: 24498

Ion Ratio Lower Upper

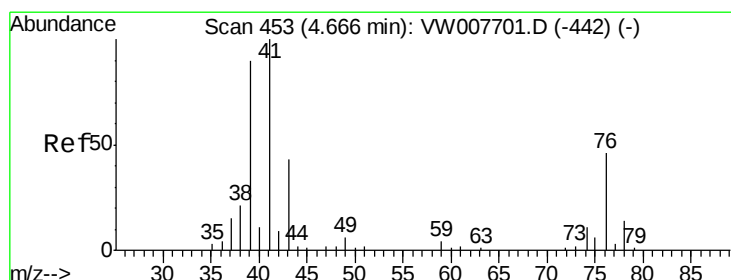
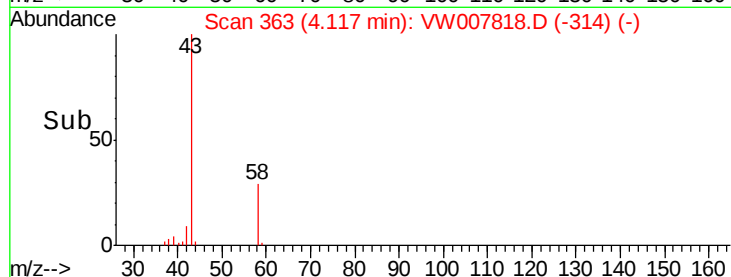
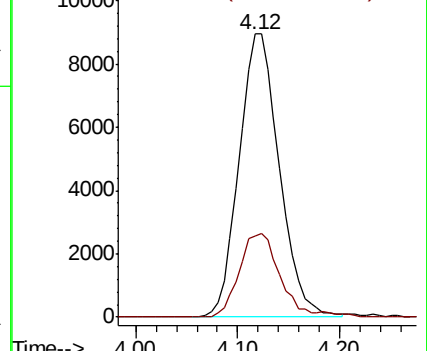
43 100

58 28.8 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 2.778 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW007818.D

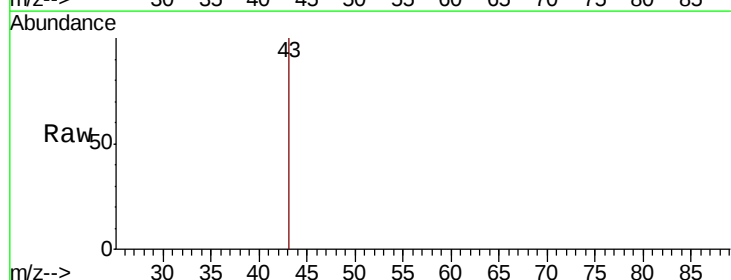
Acq: 22 Dec 2018 01:28

Tgt Ion: 43 Resp: 693

Ion Ratio Lower Upper

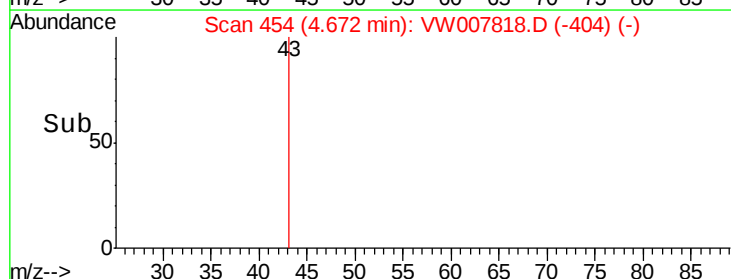
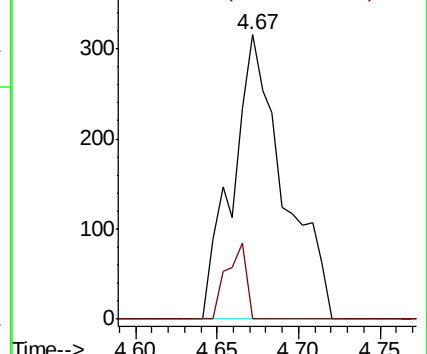
43 100

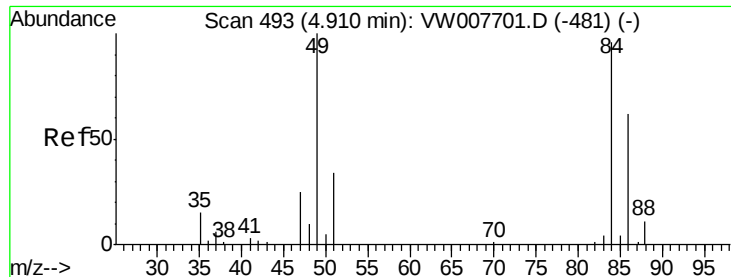
74 10.2 22.7 34.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

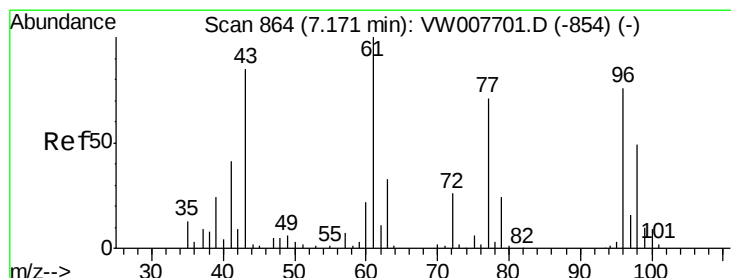
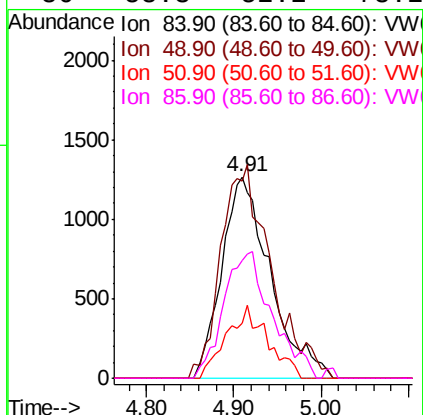
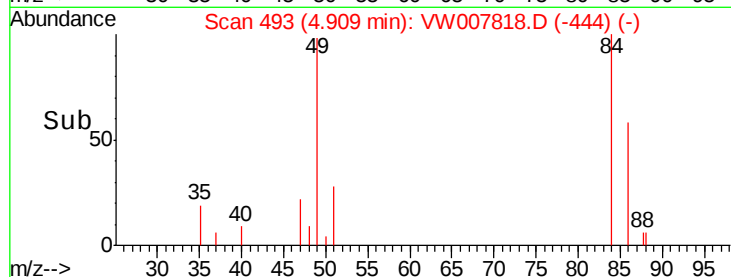
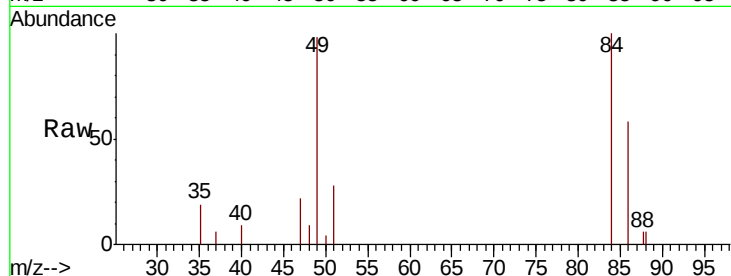




#20  
Methvlene Chloride  
Concen: 3.443 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. 0.00 min  
Lab File: VW007818.D  
Acq: 22 Dec 2018 01:28

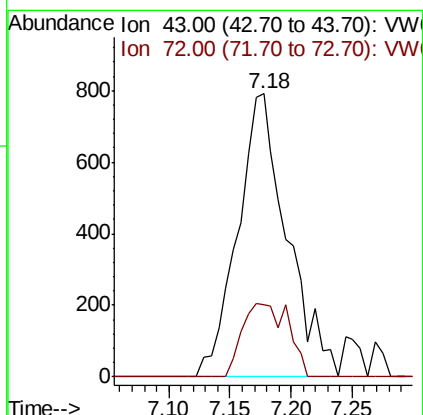
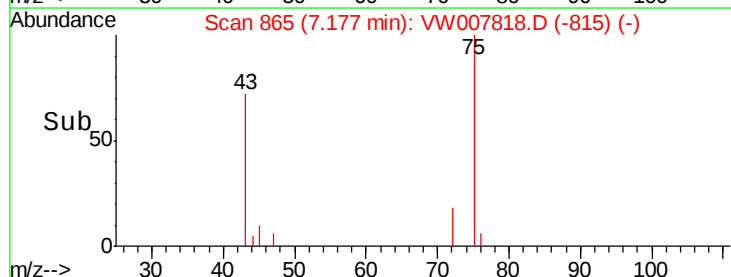
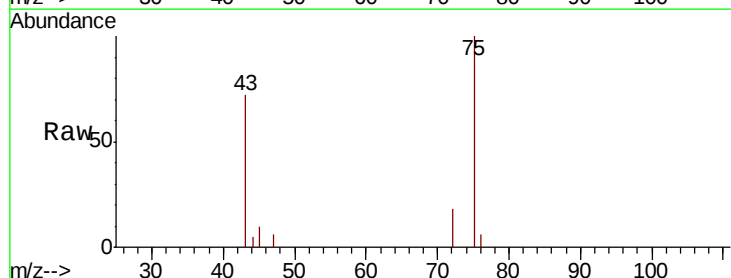
Instrument :  
MSVOA\_W  
ClientSampled :

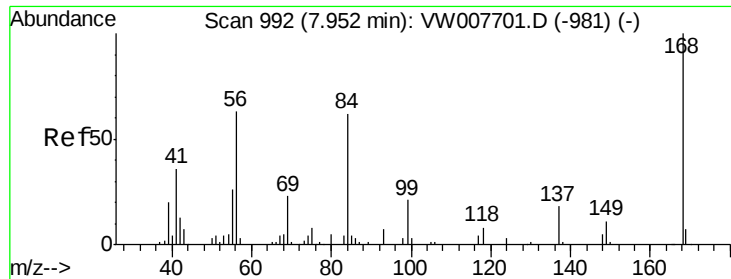
Tot Ion: 84 Resp: 4886  
Ion Ratio Lower Upper  
84 100  
49 97.7 83.7 125.5  
51 27.7 28.2 42.2#  
86 58.3 52.2 78.2



#25  
2-Butanone  
Concen: 18.046 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW007818.D  
Acq: 22 Dec 2018 01:28

Tgt Ion: 43 Resp: 2217  
Ion Ratio Lower Upper  
43 100  
72 25.3 24.5 36.7

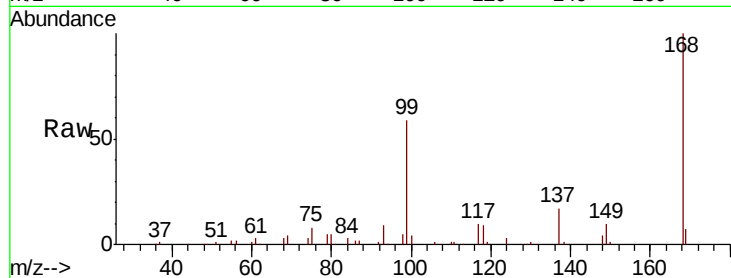




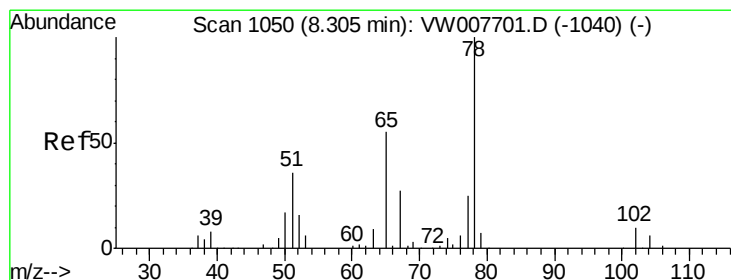
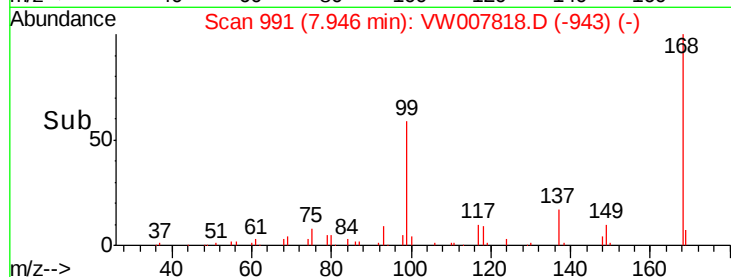
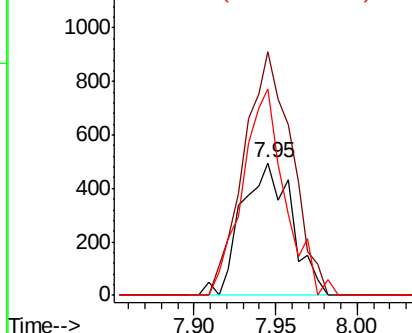
#31  
Cyclohexane  
Concen: 1.265 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW007818.D  
Acq: 22 Dec 2018 01:28

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 56 Resp: 1055  
Ion Ratio Lower Upper  
56 100  
69 184.0 29.7 44.5#  
84 156.2 78.9 118.3#

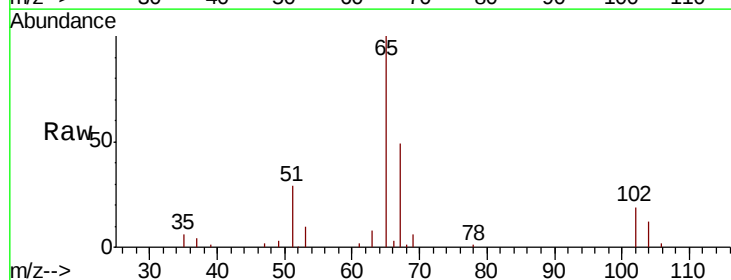


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

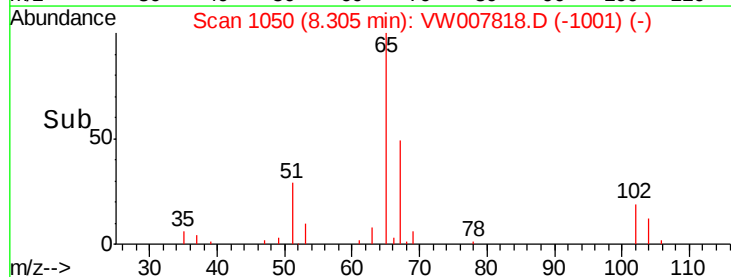
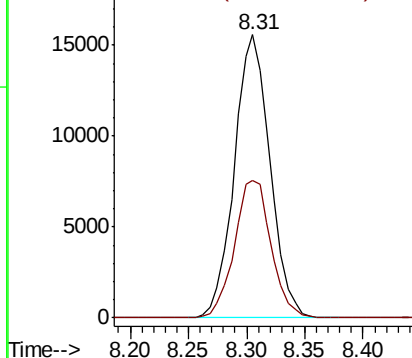


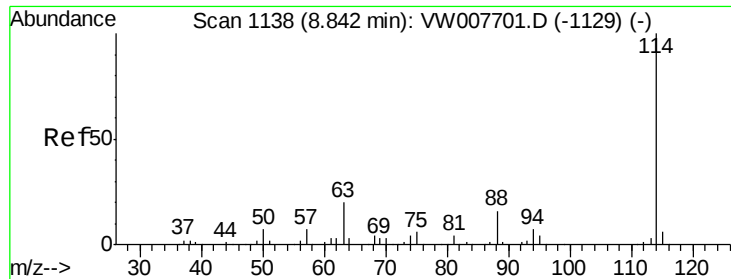
#33  
1,2-Dichloroethane-d4  
Concen: 59.148 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW007818.D  
Acq: 22 Dec 2018 01:28

Tgt Ion: 65 Resp: 33130  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 100.6



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

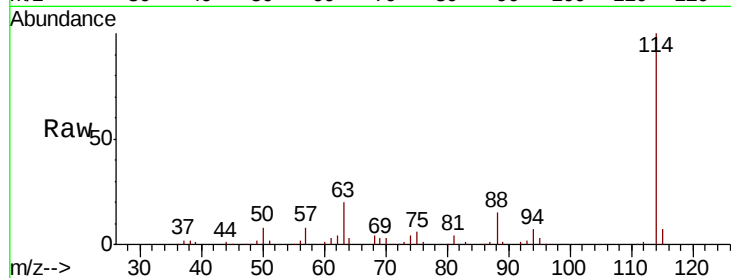




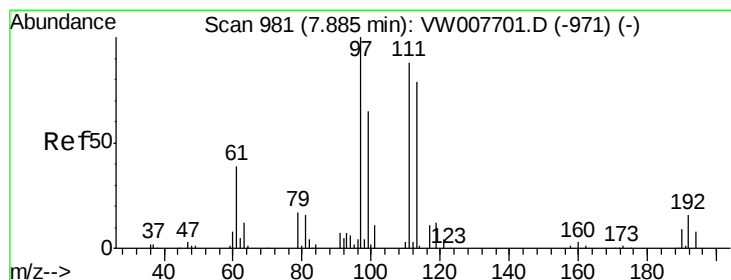
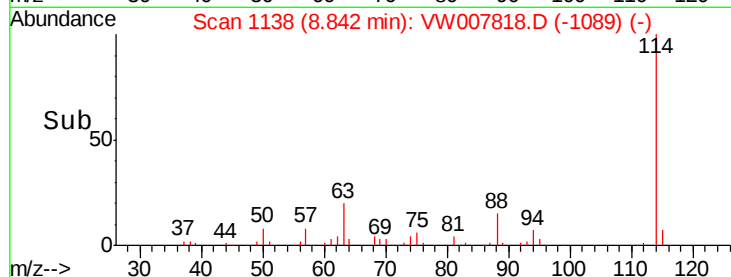
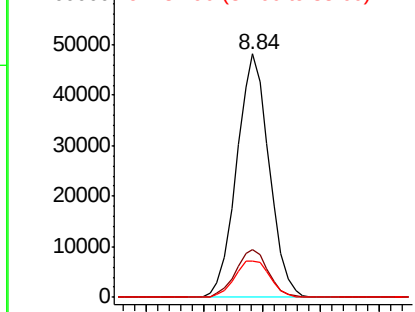
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007818.D  
 Acq: 22 Dec 2018 01:28

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:114 Resp: 93250  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 40.0  
 88 15.0 0.0 32.6

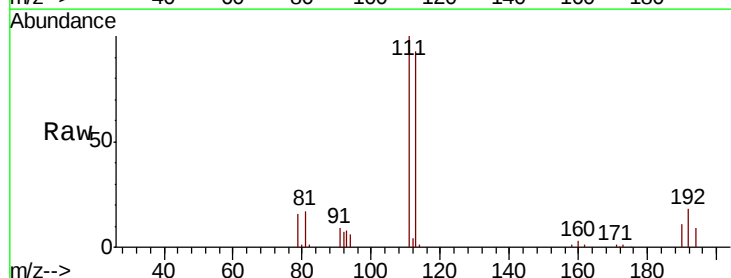


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

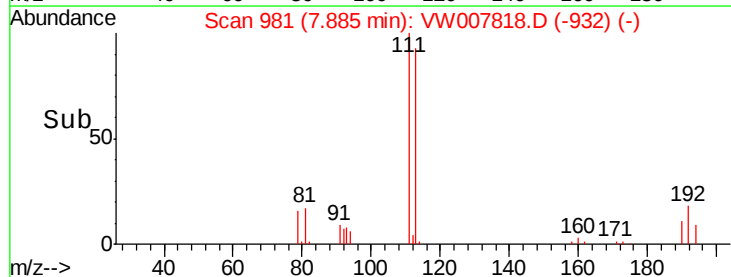
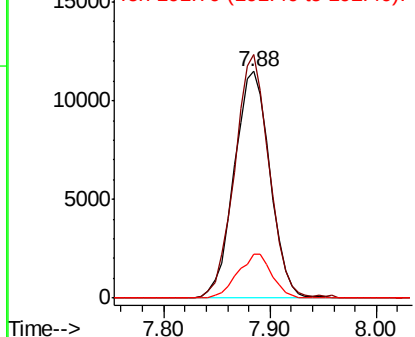


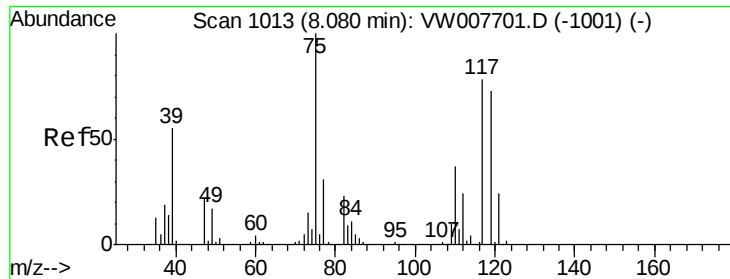
#35  
 Dibromofluoromethane  
 Concen: 47.691 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW007818.D  
 Acq: 22 Dec 2018 01:28

Tgt Ion:113 Resp: 27130  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 82.6 124.0  
 192 18.5 15.5 23.3



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

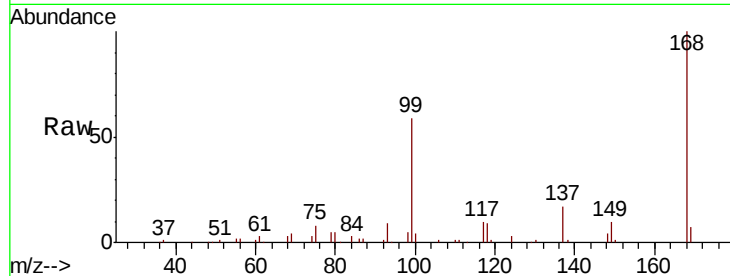




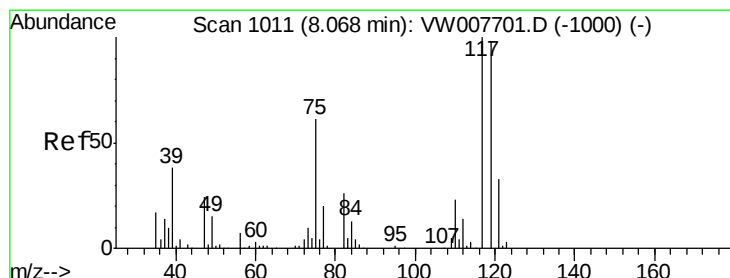
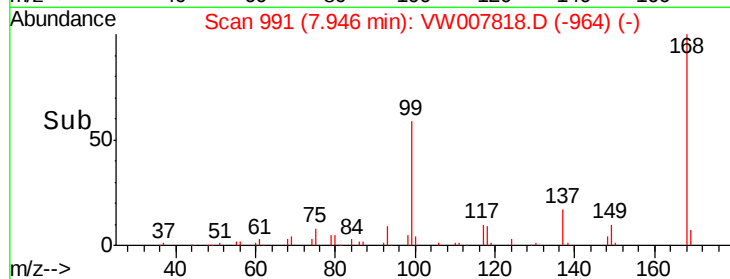
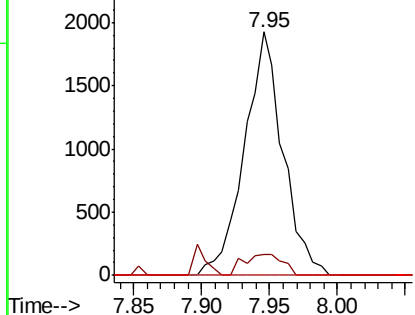
#36  
 1,1-Dichloropropene  
 Concen: 4.237 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW007818.D  
 Acq: 22 Dec 2018 01:28

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion: 75 Resp: 3813  
 Ion Ratio Lower Upper  
 75 100  
 110 8.8 18.6 55.8#  
 77 0.0 25.0 37.4#

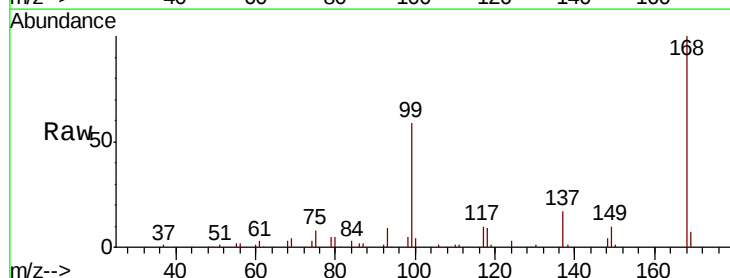


Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VW

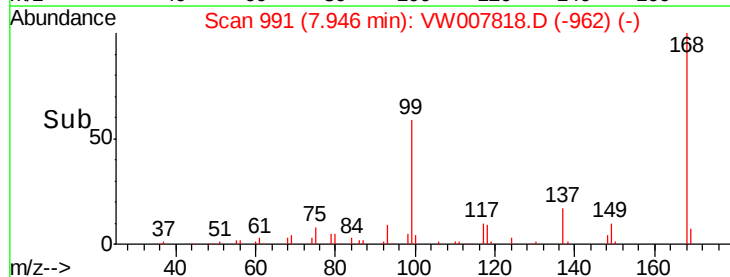
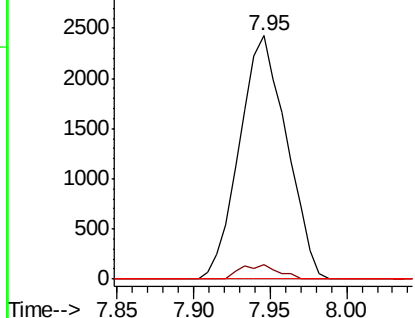


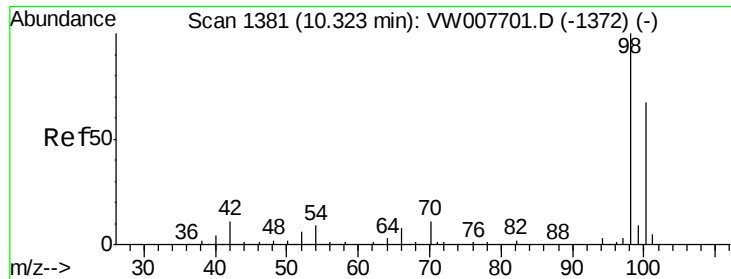
#38  
 Carbon Tetrachloride  
 Concen: 4.910 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW007818.D  
 Acq: 22 Dec 2018 01:28

Tgt Ion: 117 Resp: 5204  
 Ion Ratio Lower Upper  
 117 100  
 119 5.9 78.2 117.2#  
 121 0.0 26.1 39.1#



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: 34.306 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007818.D

Acq: 22 Dec 2018 01:28

Instrument :

MSVOA\_W

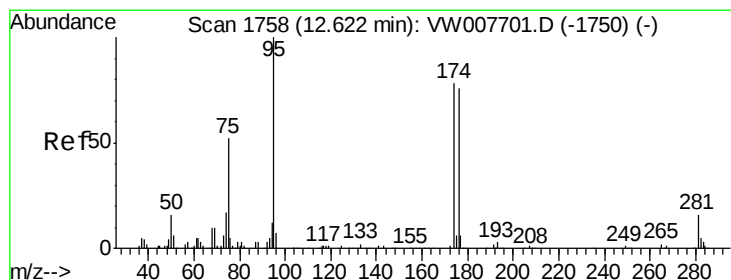
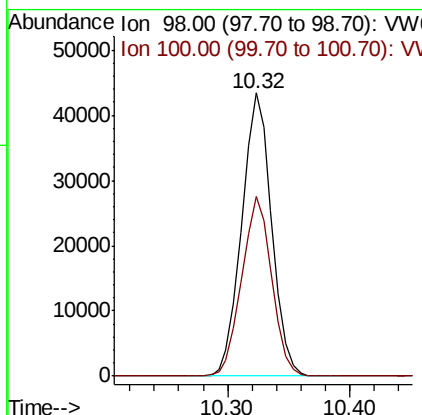
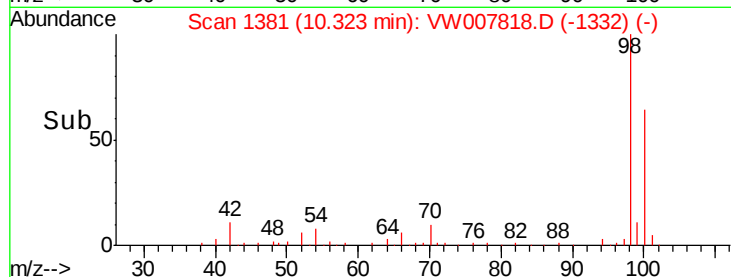
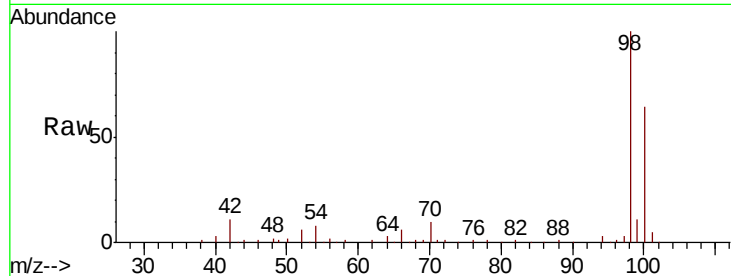
ClientSampleId :

Tot Ion: 98 Resp: 73572

Ion Ratio Lower Upper

98 100

100 63.4 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 24.033 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007818.D

Acq: 22 Dec 2018 01:28

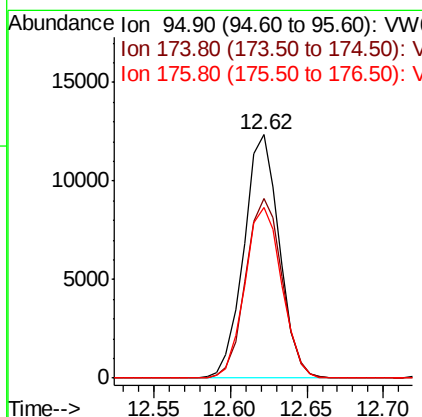
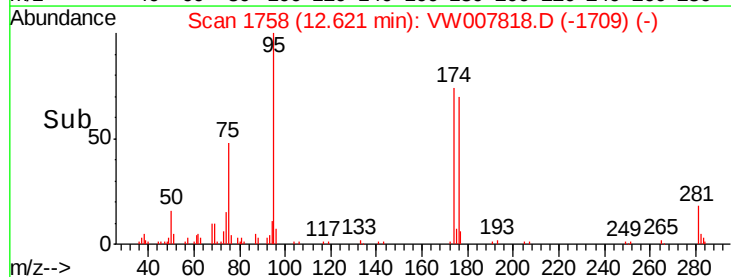
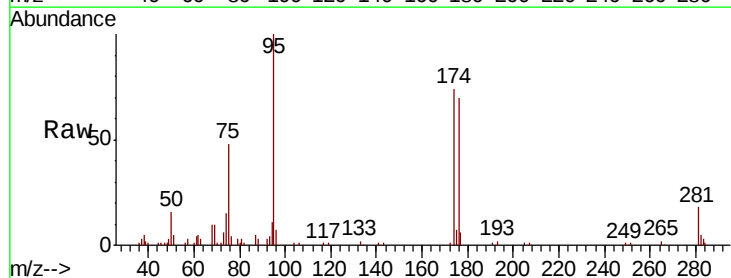
Tgt Ion: 95 Resp: 19911

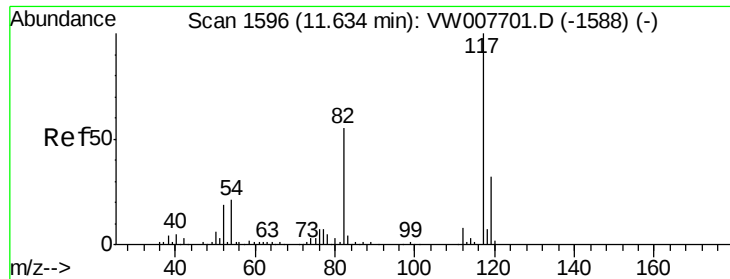
Ion Ratio Lower Upper

95 100

174 75.7 0.0 152.2

176 72.8 0.0 146.8

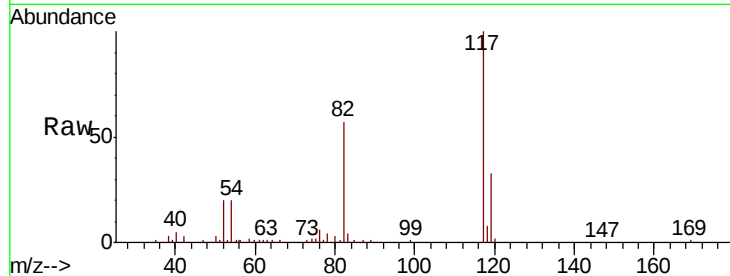




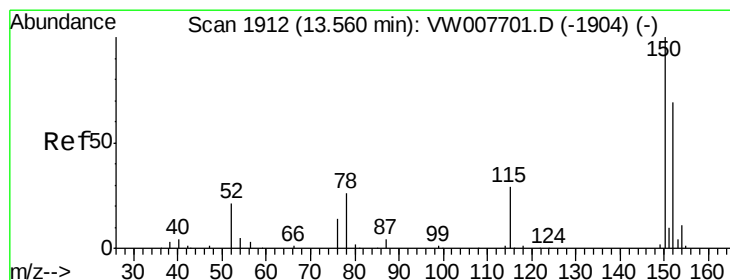
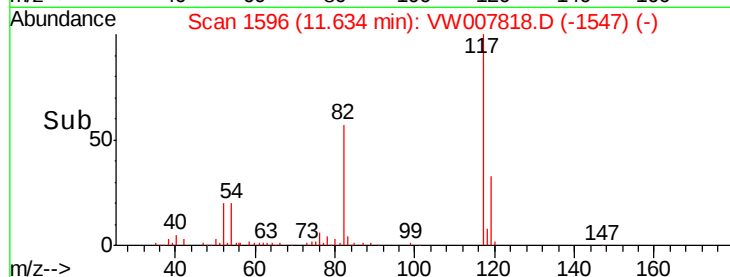
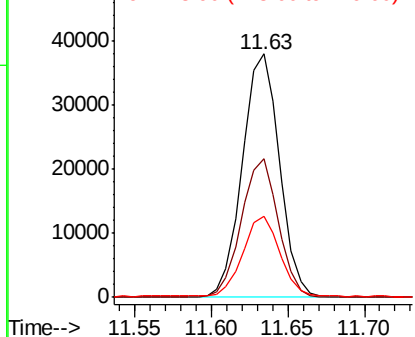
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007818.D  
Acq: 22 Dec 2018 01:28

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 64228  
Ion Ratio Lower Upper  
117 100  
82 56.8 44.3 66.5  
119 32.5 25.7 38.5

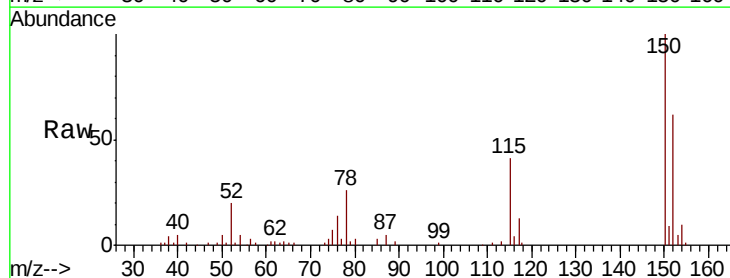


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

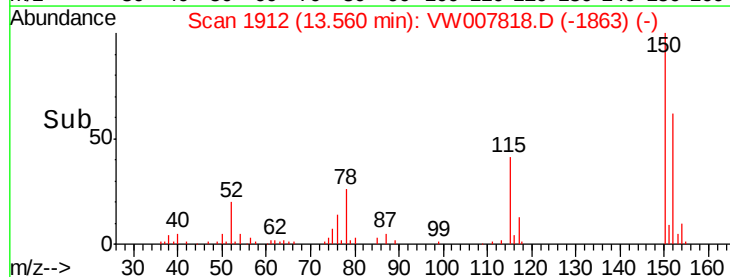
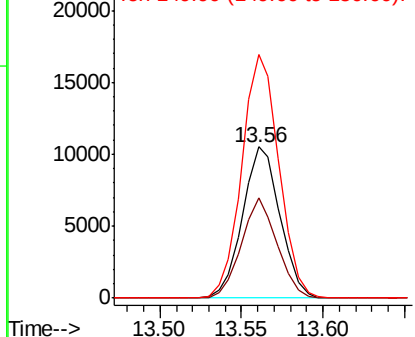


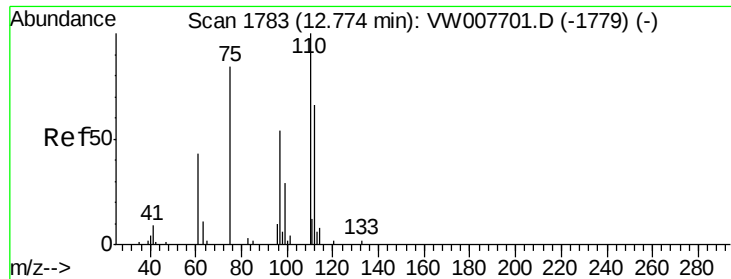
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007818.D  
Acq: 22 Dec 2018 01:28

Tgt Ion:152 Resp: 16814  
Ion Ratio Lower Upper  
152 100  
115 62.4 31.8 95.4  
150 158.8 0.0 350.8



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





#76

1,2,3-Trichloropropane

Concen: 75.671 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007818.D

Acq: 22 Dec 2018 01:28

Instrument :

MSVOA\_W

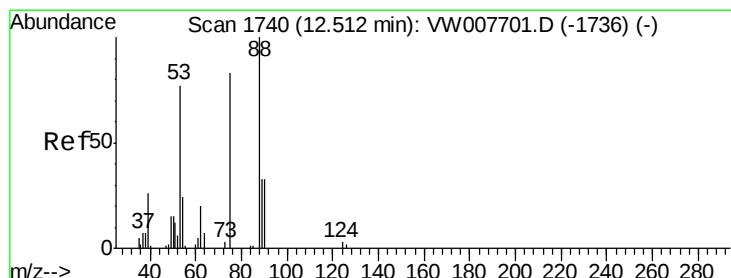
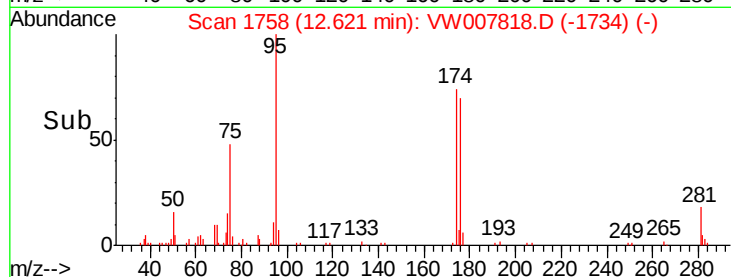
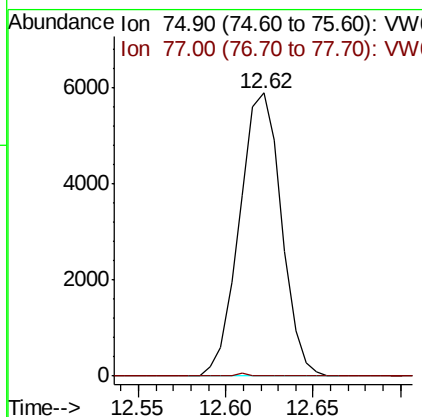
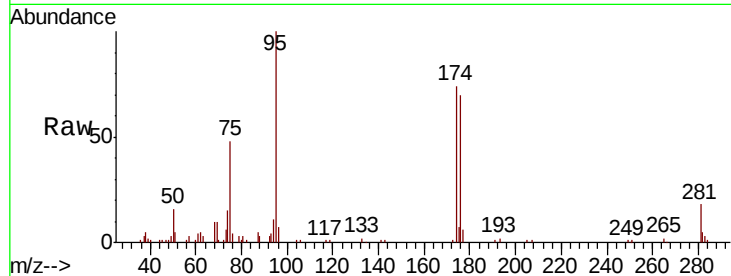
ClientSampleId :

Tot Ion: 75 Resp: 9834

Ion Ratio Lower Upper

75 100

77 0.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 158.840 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007818.D

Acq: 22 Dec 2018 01:28

Tgt Ion: 75 Resp: 9834

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

89 0.0 39.2 58.8#

