

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092218\  
 Data File : VW005558.D  
 Acq On : 21 Sep 2018 14:23  
 Operator : VA/AP  
 Sample : J5021-17  
 Misc : 6.23G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 21 16:04:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 87956    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 144956   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 135322   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 57275    | 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   | 57736    | 55.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.44% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 44130    | 48.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.82%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 131459   | 35.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 70.84%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 45728    | 33.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 66.58%  |          |

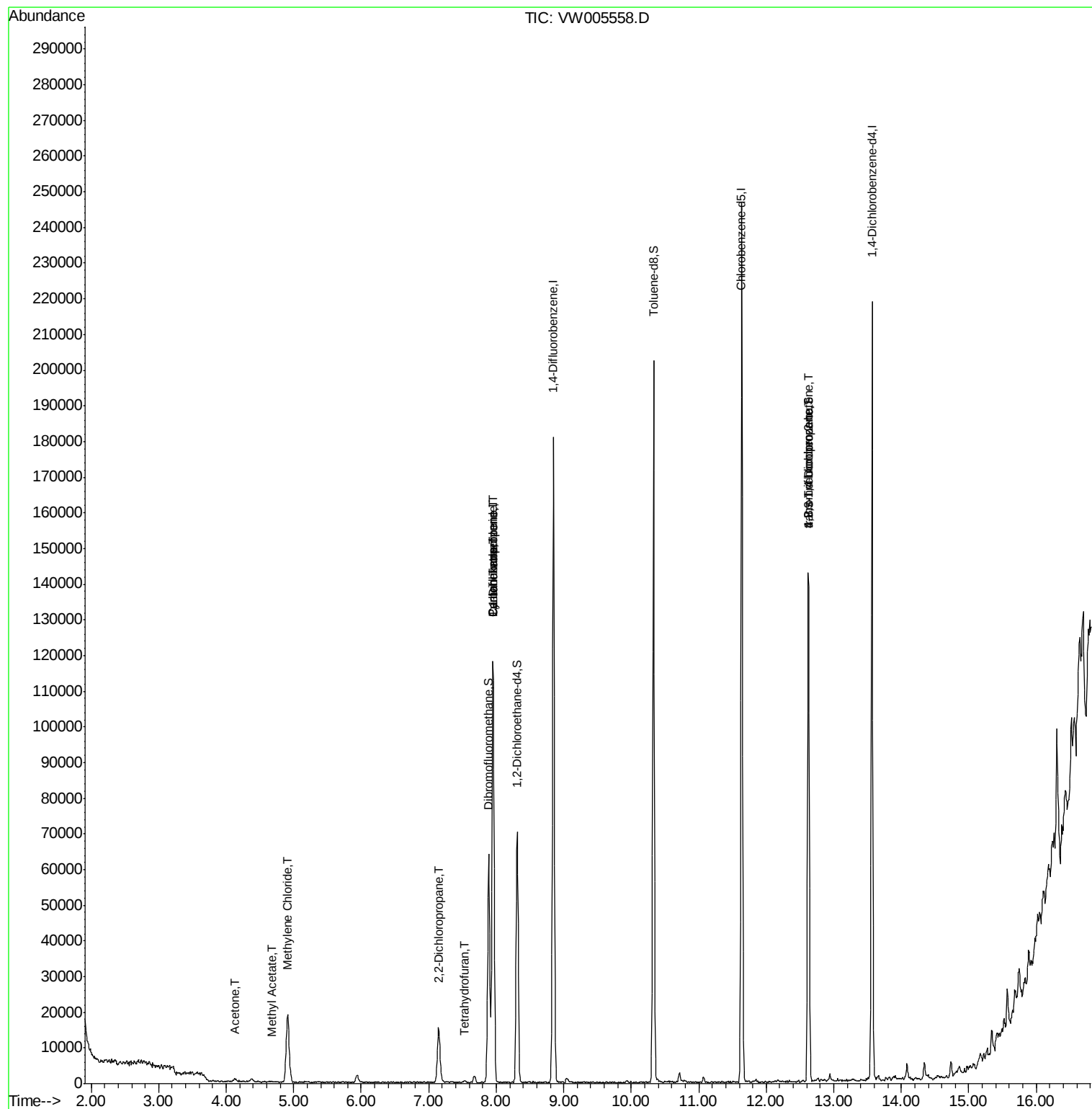
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 61       | Below Cal | #      | 72     |
| 16) Acetone                    | 4.13  | 43   | 1822     | 1.817     | ug/l   | 99     |
| 18) Methyl Acetate             | 4.67  | 43   | 624      | 1.271     | ug/l # | 51     |
| 20) Methylene Chloride         | 4.92  | 84   | 14141    | 13.126    | ug/l   | 96     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 1192     | 1.018     | ug/l # | 54     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 230      | 1.463     | ug/l # | 43     |
| 31) Cyclohexane                | 7.95  | 56   | 1993     | 1.241     | ug/l # | 3      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 6890     | 4.722     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 9177     | 5.869     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 23908    | 48.969    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 23908    | 110.292   | ug/l # | 7      |

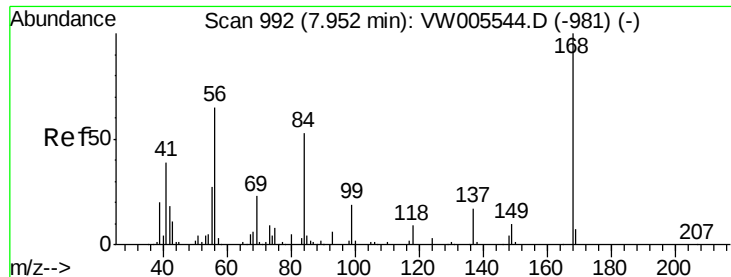
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW092218\  
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Sample : J5021-17  
Misc : 6.23G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Sep 21 16:04:07 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 21 09:05:42 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: VW005558.D

Acq: 21 Sep 2018 14:23

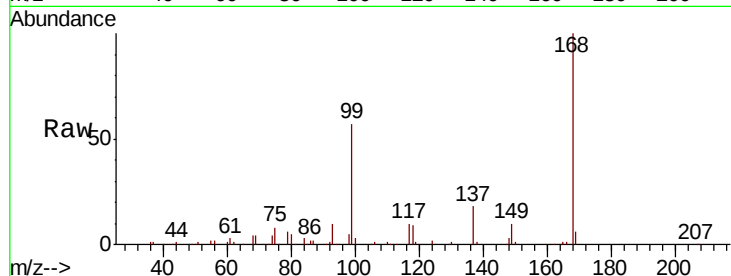
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 87956

Ion Ratio Lower Upper

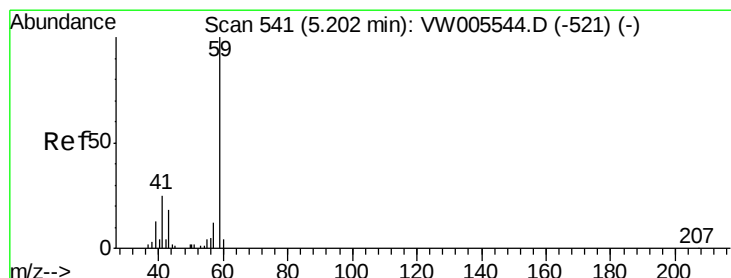
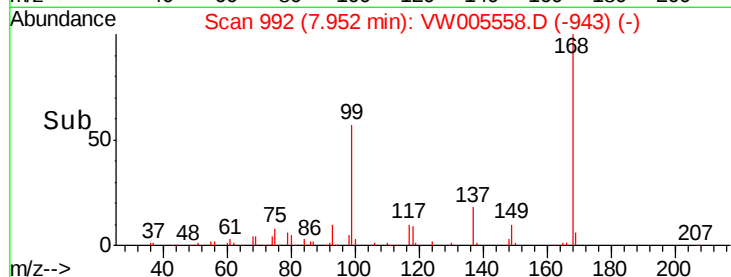
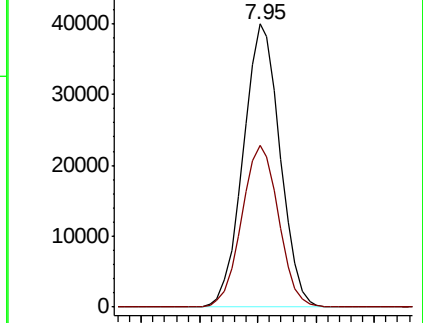
168 100

99 57.3 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 543

Delta R.T. 0.01 min

Lab File: VW005558.D

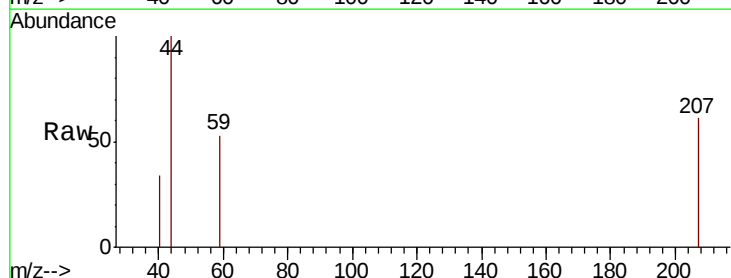
Acq: 21 Sep 2018 14:23

Tgt Ion: 59 Resp: 61

Ion Ratio Lower Upper

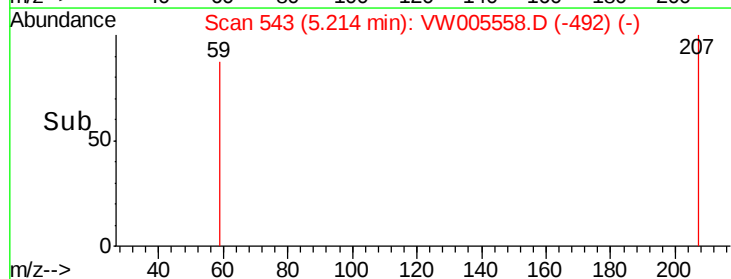
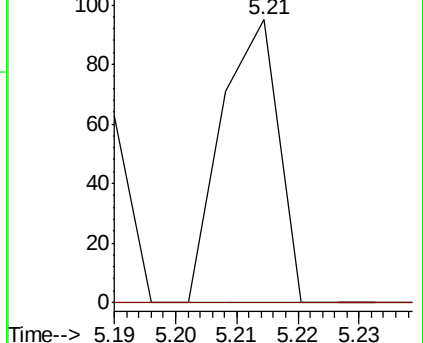
59 100

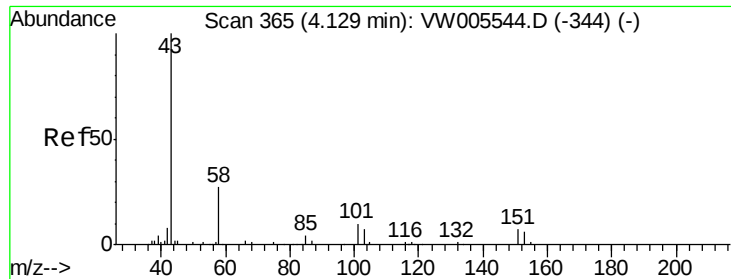
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

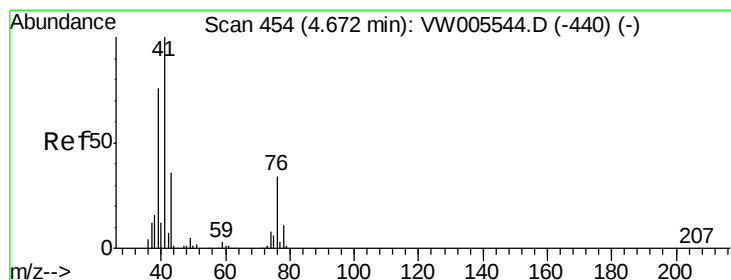
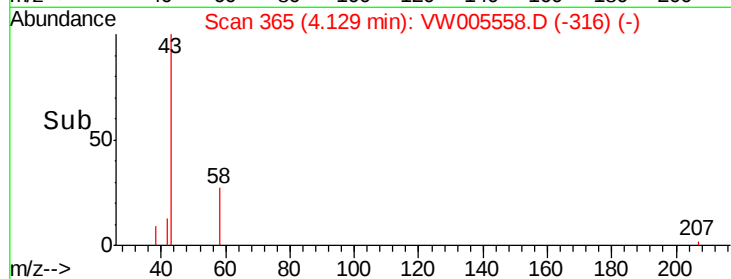
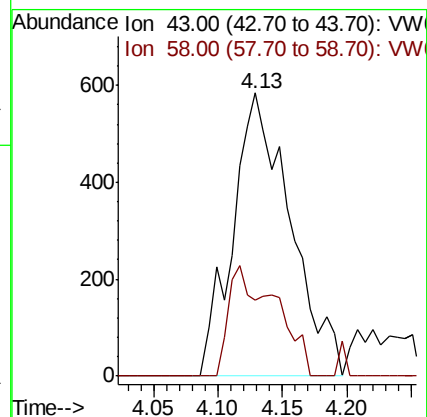
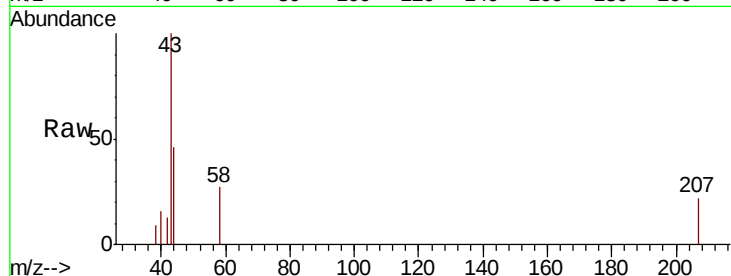




#16  
Acetone  
Concen: 1.817 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. 0.00 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

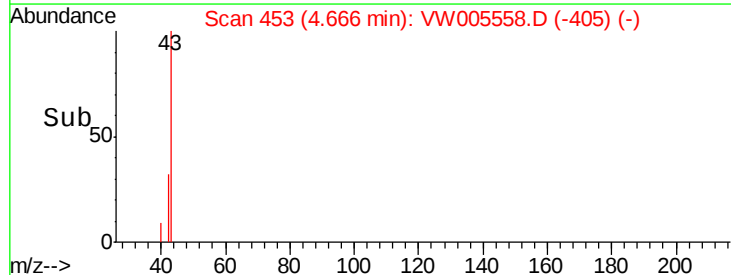
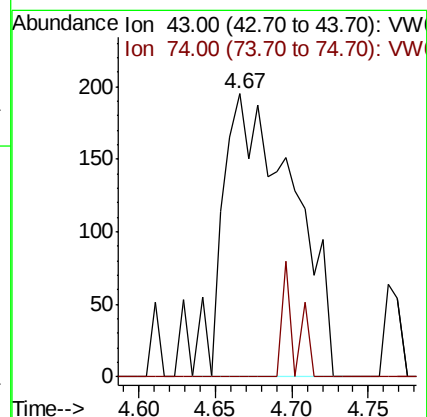
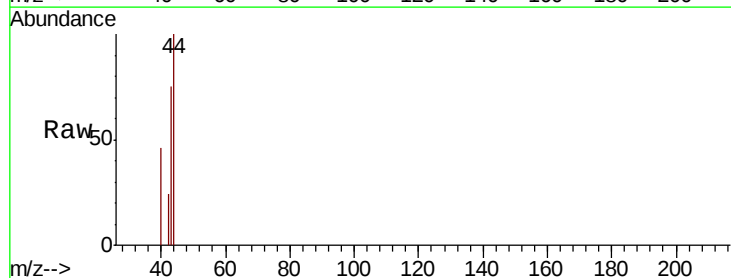
Instrument :  
MSVOA\_W  
ClientSampleId :

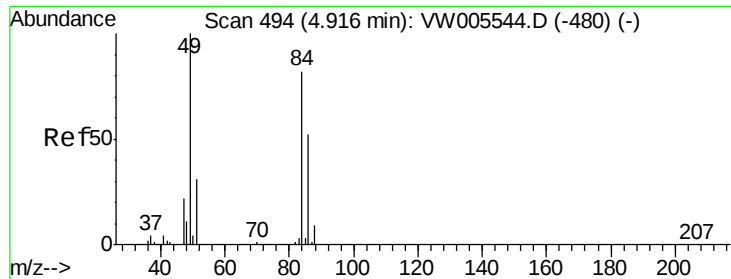
Tot Ion: 43 Resp: 1822  
Ion Ratio Lower Upper  
43 100  
58 26.9 21.8 32.8



#18  
Methyl Acetate  
Concen: 1.271 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. -0.01 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

Tgt Ion: 43 Resp: 624  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.2 28.8#

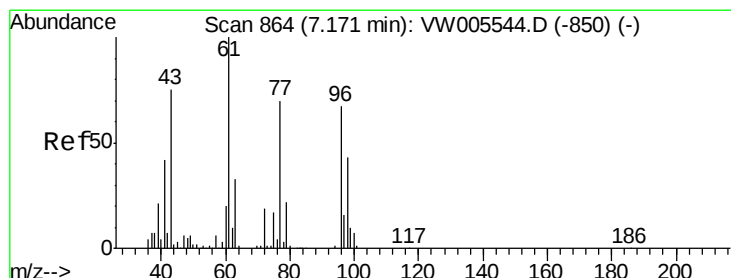
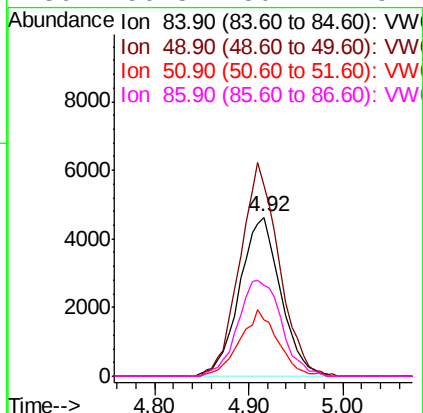
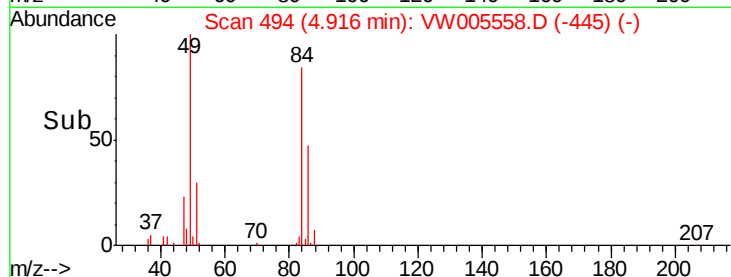
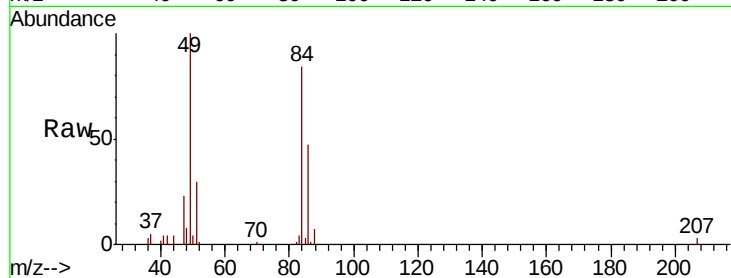




#20  
Methvlene Chloride  
Concen: 13.126 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

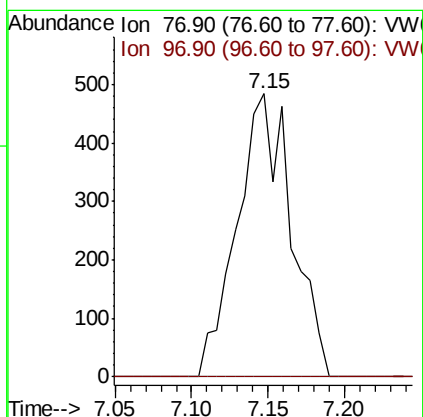
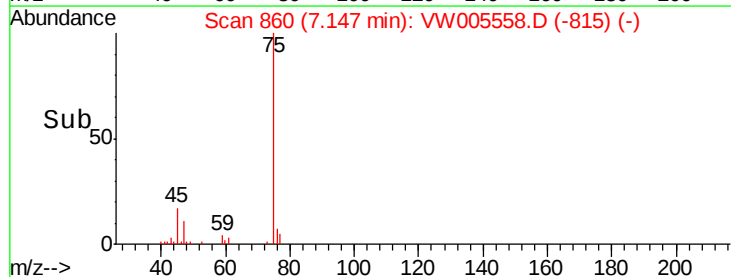
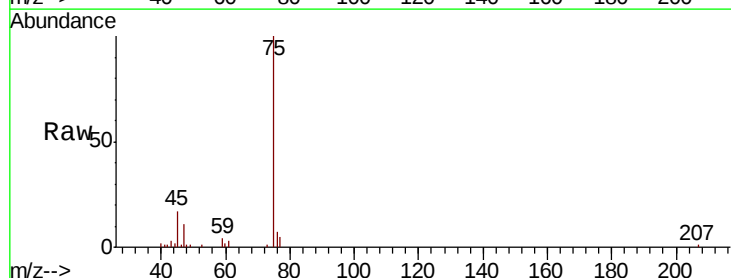
Instrument :  
MSVOA\_W  
ClientSampled :

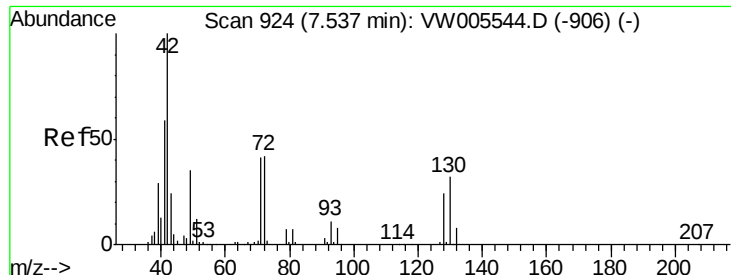
Tot Ion: 84 Resp: 14141  
Ion Ratio Lower Upper  
84 100  
49 119.7 97.0 145.6  
51 35.7 30.2 45.2  
86 56.8 50.2 75.4



#26  
2,2-Dichloropropane  
Concen: 1.018 ug/l  
RT: 7.15 min Scan# 860  
Delta R.T. -0.02 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

Tgt Ion: 77 Resp: 1192  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.0 33.0#

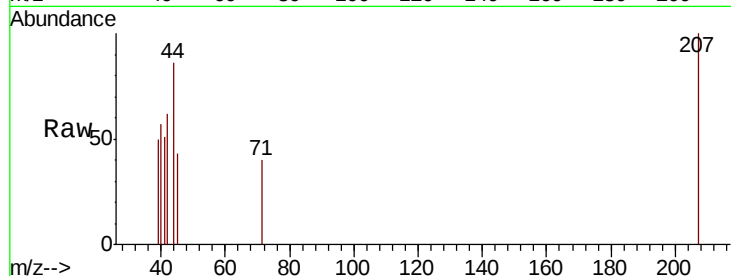




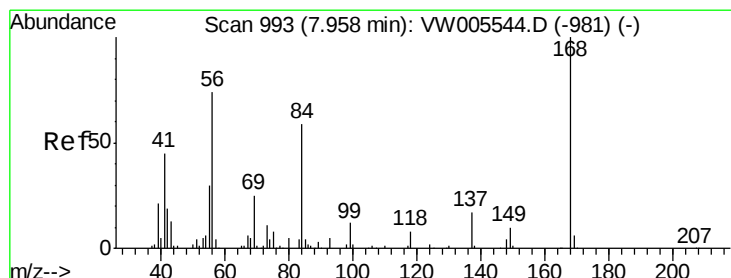
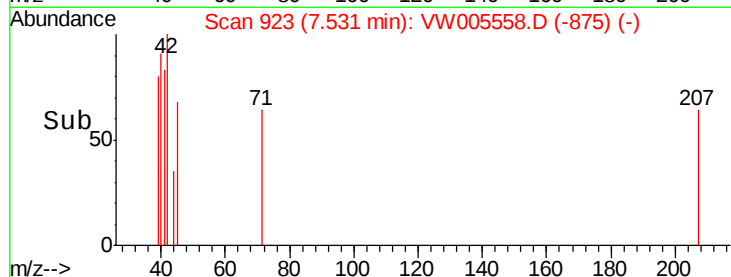
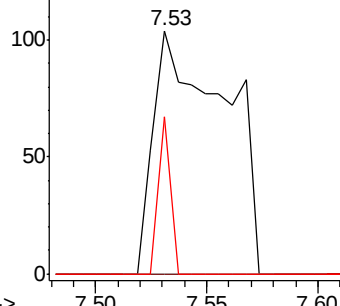
#29  
Tetrahydrofuran  
Concen: 1.463 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 42 Resp: 230  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.6 50.4#  
71 10.9 31.8 47.6#

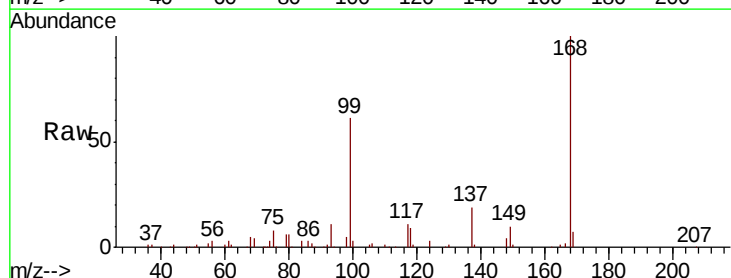


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

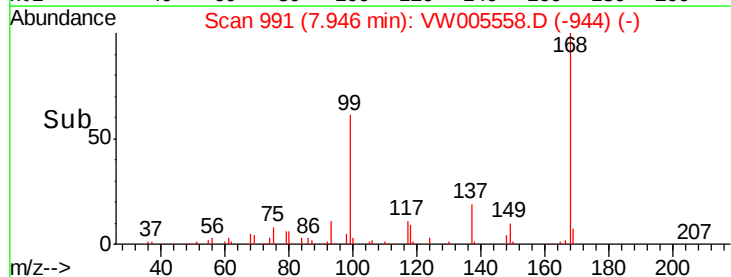
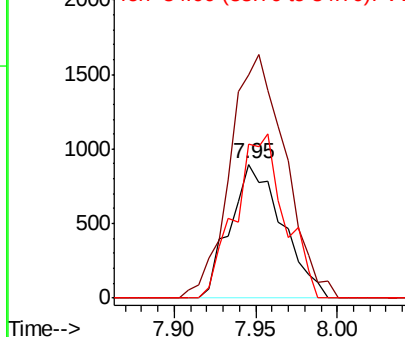


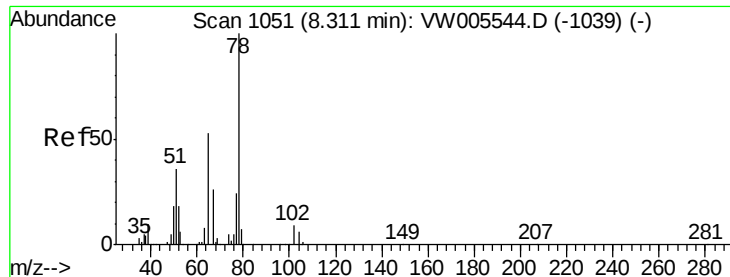
#31  
Cyclohexane  
Concen: 1.241 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

Tgt Ion: 56 Resp: 1993  
Ion Ratio Lower Upper  
56 100  
69 166.6 27.0 40.4#  
84 115.6 64.2 96.4#



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

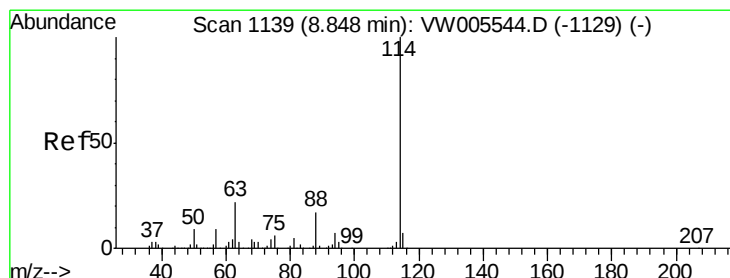
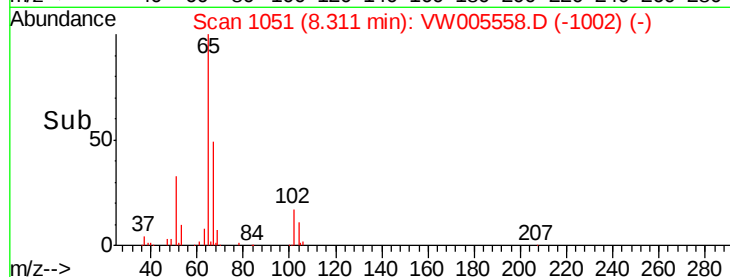
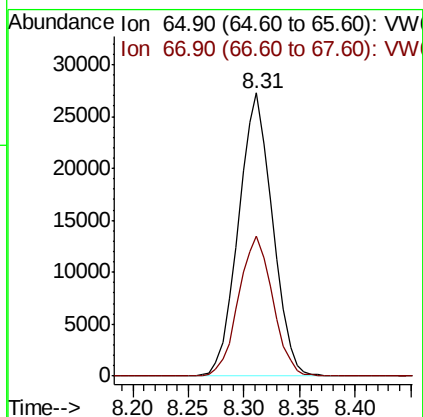
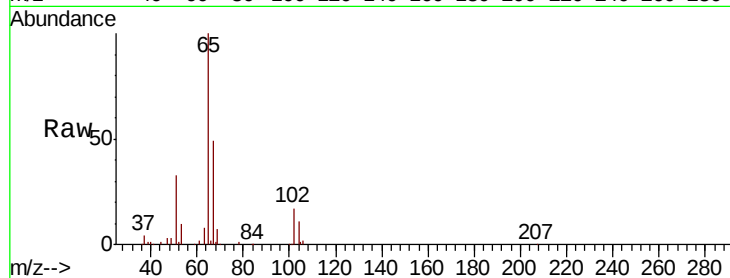




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.720 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VW005558.D  
 Acq: 21 Sep 2018 14:23

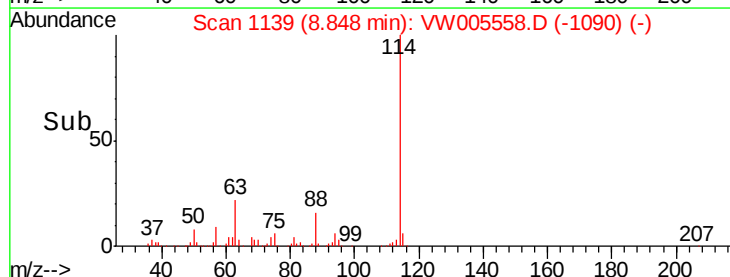
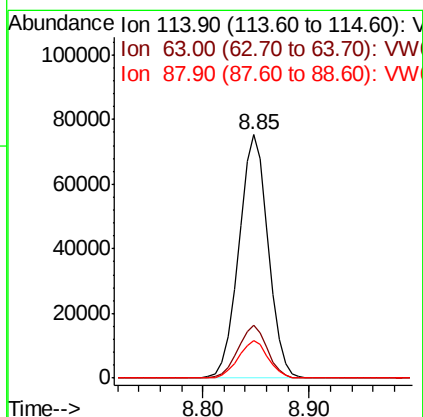
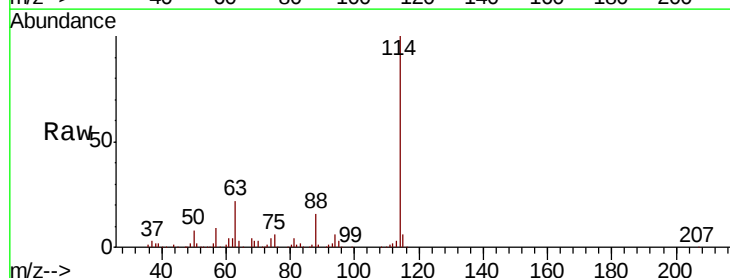
Instrument :  
 MSVOA\_W  
 ClientSampleId :

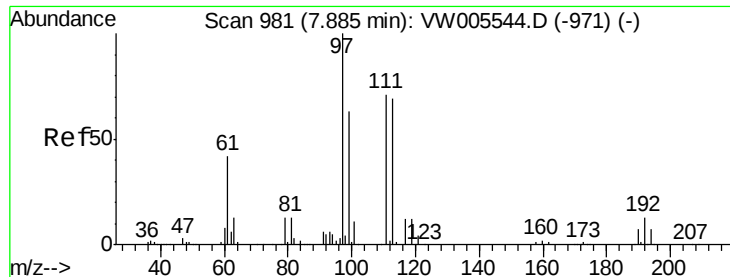
Tot Ion: 65 Resp: 57736  
 Ion Ratio Lower Upper  
 65 100  
 67 49.7 0.0 100.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW005558.D  
 Acq: 21 Sep 2018 14:23

Tgt Ion: 114 Resp: 144956  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 43.0  
 88 15.6 0.0 33.0

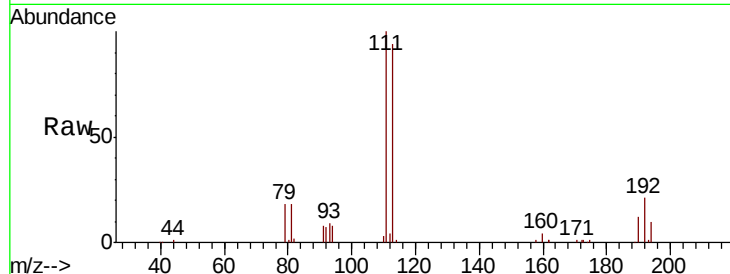




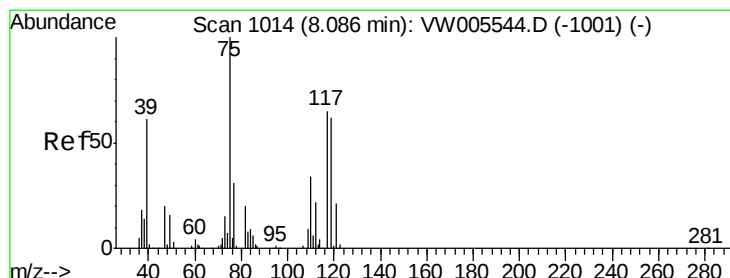
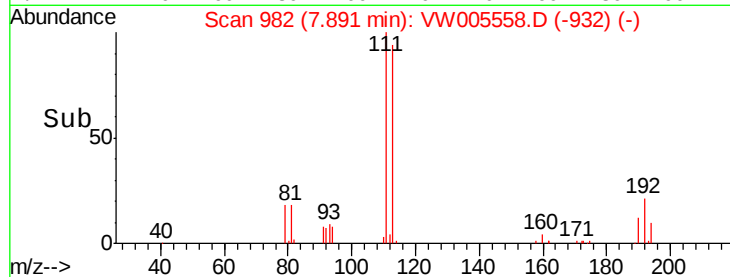
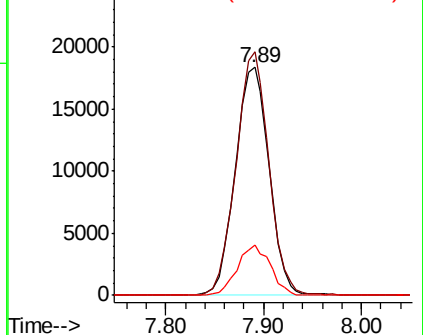
#35  
 Dibromofluoromethane  
 Concen: 48.411 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.01 min  
 Lab File: VW005558.D  
 Acq: 21 Sep 2018 14:23

Instrument :  
 MSVOA\_W  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 82.6  | 123.8 |
| 192     | 21.3  | 17.0  | 25.4  |

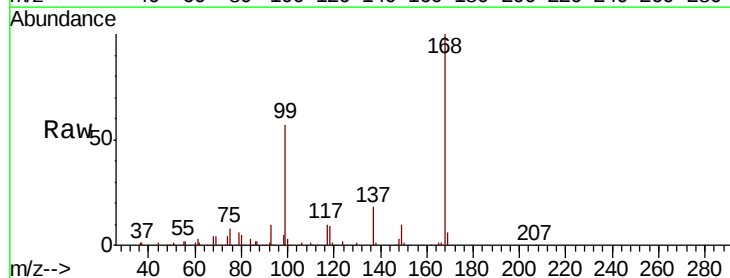


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

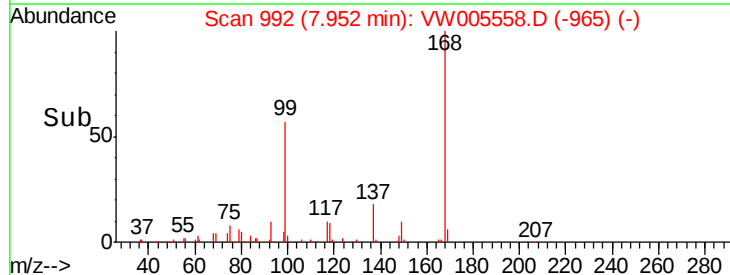
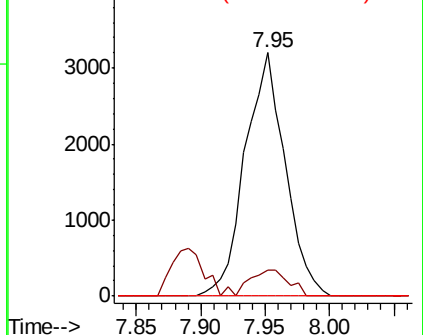


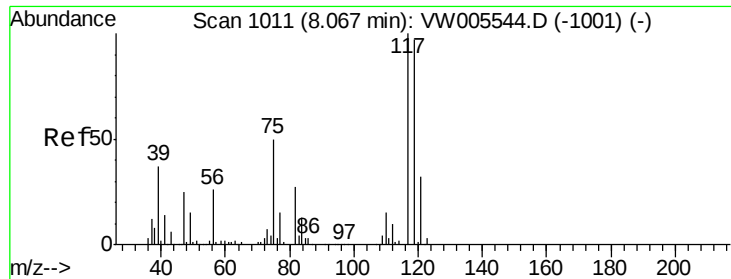
#36  
 1,1-Dichloropropene  
 Concen: 4.722 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW005558.D  
 Acq: 21 Sep 2018 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.2  | 17.0  | 50.9# |
| 77      | 0.0   | 24.8  | 37.2# |



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

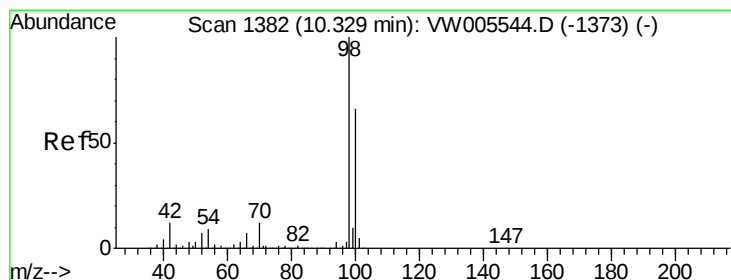
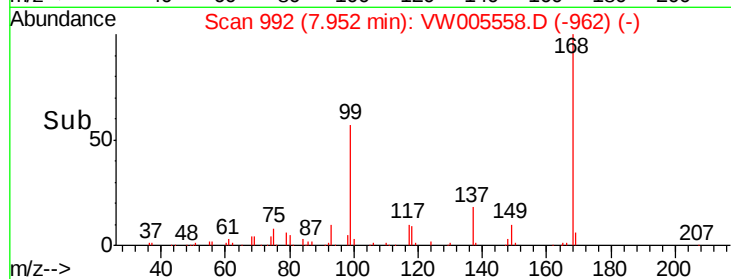
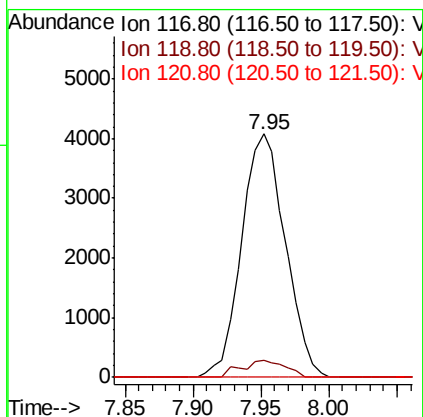
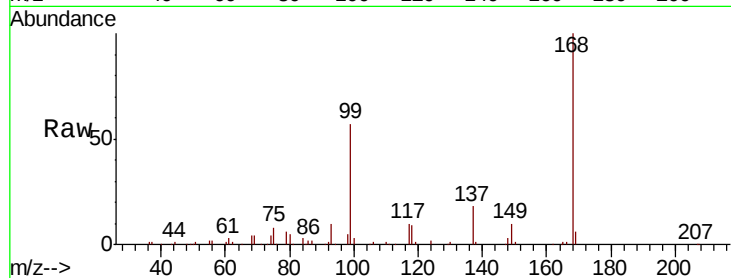




#38  
Carbon Tetrachloride  
Concen: 5.869 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

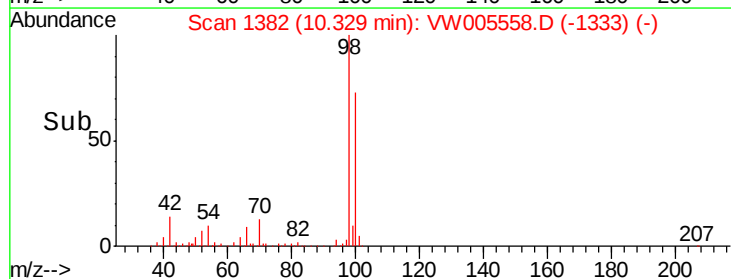
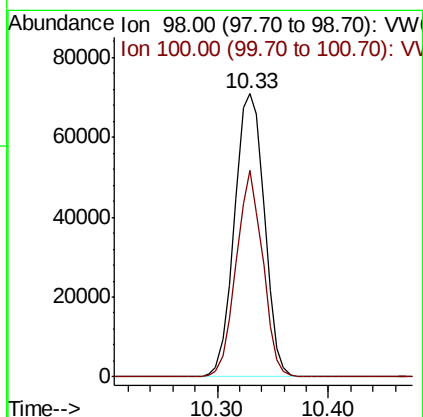
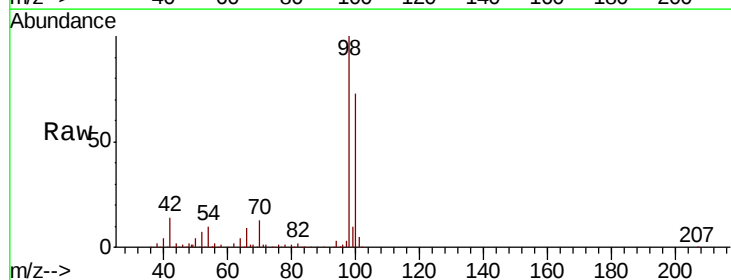
Instrument :  
MSVOA\_W  
ClientSampled :

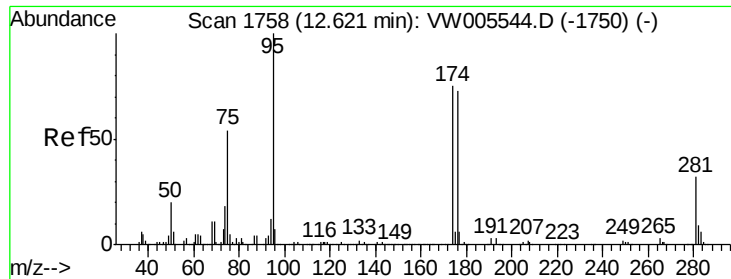
Tot Ion:117 Resp: 9177  
Ion Ratio Lower Upper  
117 100  
119 6.9 77.6 116.4#  
121 0.0 25.7 38.5#



#50  
Toluene-d8  
Concen: 35.417 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

Tgt Ion: 98 Resp: 131459  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.6 77.4

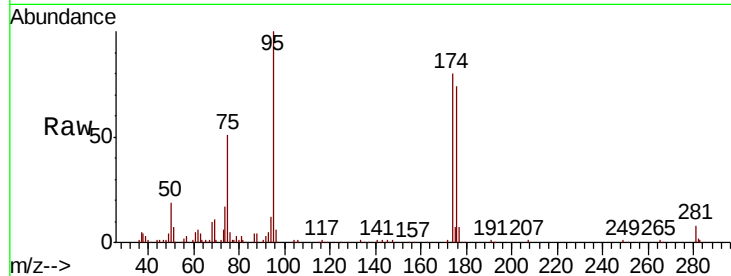




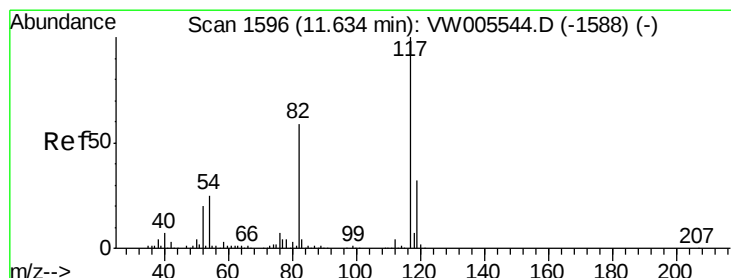
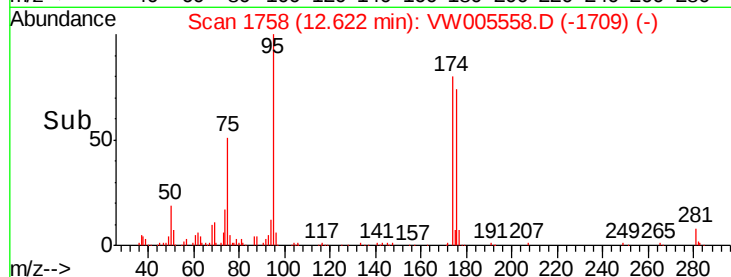
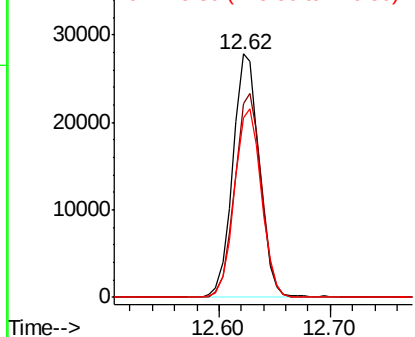
#62  
4-Bromofluorobenzene  
Concen: 33.295 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 95 Resp: 45728  
Ion Ratio Lower Upper  
95 100  
174 84.1 0.0 163.8  
176 78.6 0.0 158.0

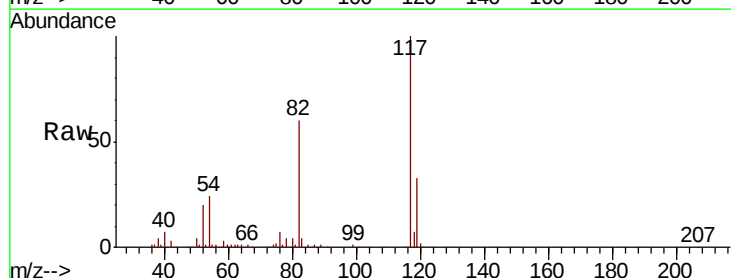


Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): VW  
Ion 175.80 (175.50 to 176.50): VW

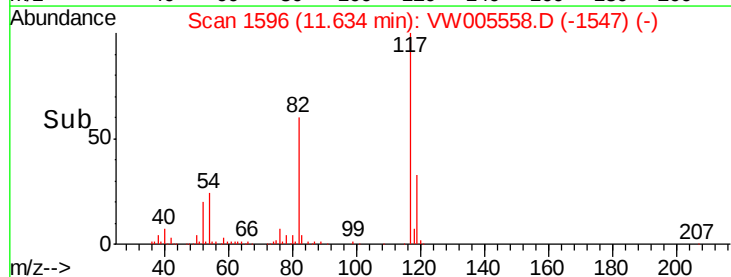
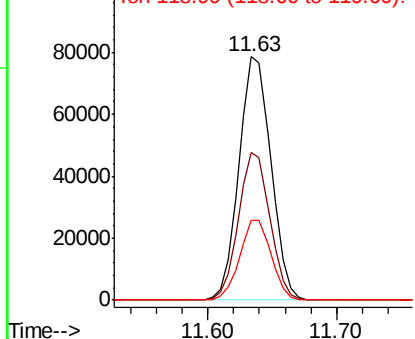


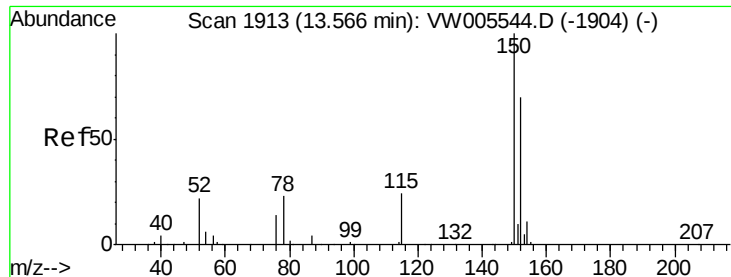
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW005558.D  
Acq: 21 Sep 2018 14:23

Tgt Ion: 117 Resp: 135322  
Ion Ratio Lower Upper  
117 100  
82 60.5 46.9 70.3  
119 32.5 25.7 38.5



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005558.D

Acq: 21 Sep 2018 14:23

Instrument :

MSVOA\_W

ClientSampleId :

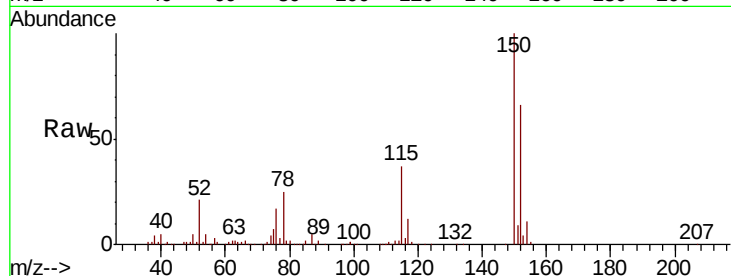
Tot Ion:152 Resp: 57275

Ion Ratio Lower Upper

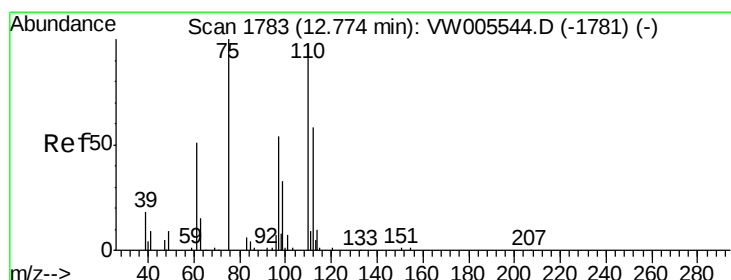
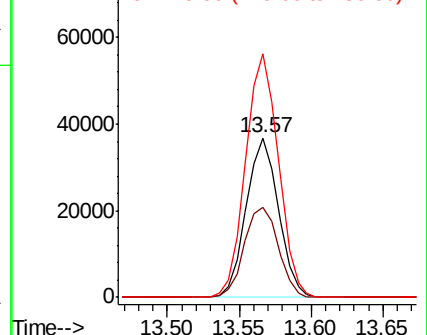
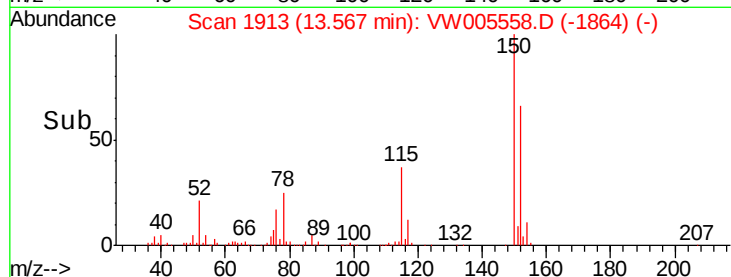
152 100

115 59.8 30.0 90.0

150 154.6 0.0 348.6



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: 48.969 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005558.D

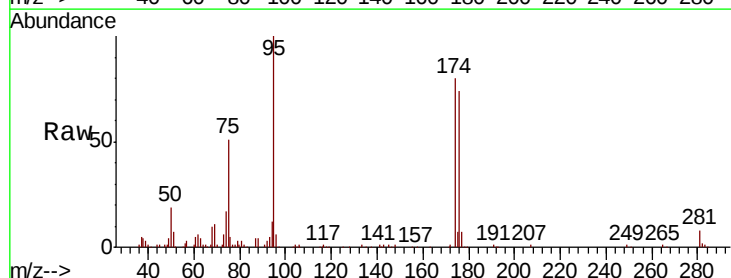
Acq: 21 Sep 2018 14:23

Tgt Ion: 75 Resp: 23908

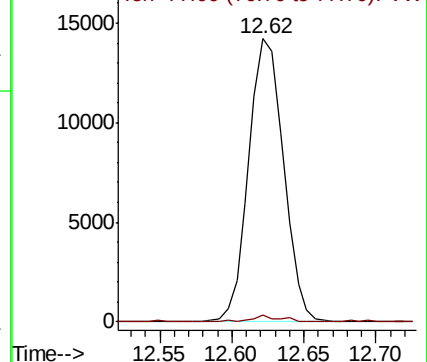
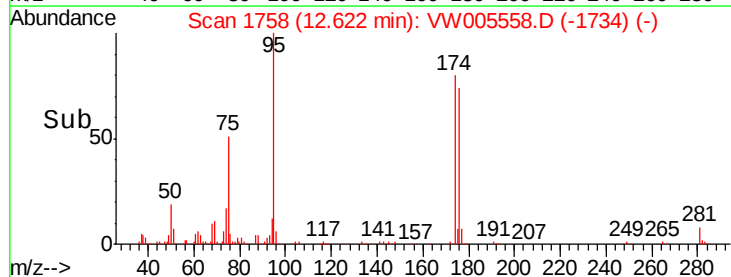
Ion Ratio Lower Upper

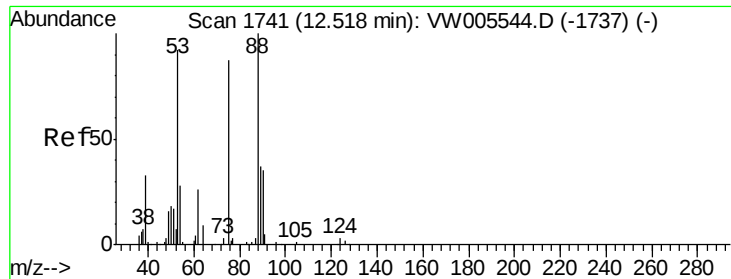
75 100

77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 110.292 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005558.D

Acq: 21 Sep 2018 14:23

Instrument :

MSVOA\_W

ClientSampleId :

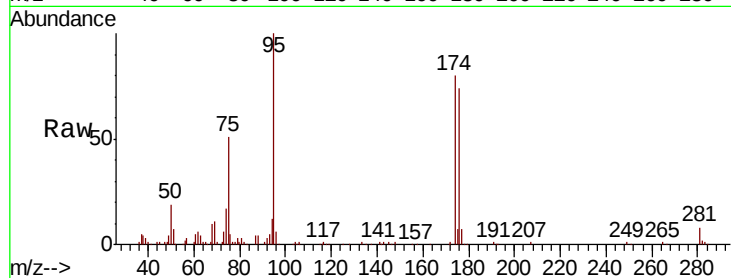
Tot Ion: 75 Resp: 23908

Ion Ratio Lower Upper

75 100

53 0.0 85.8 128.6#

89 0.2 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

