

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071718\  
 Data File : VW004014.D  
 Acq On : 18 Jul 2018 06:02  
 Operator : VA/AP  
 Sample : J3829-05RE  
 Misc : 6.25G/5ML/MSVOA W/SOIL  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PL-01-071318-CRE

Quant Time: Jul 18 07:44:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 15:06:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 156773   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 284791   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 199122   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 102973   | 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   | 115188   | 65.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 131.46% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 99677    | 54.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.10% |          |
| 50) Toluene-d8              | 10.33 | 98   | 252162   | 35.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 71.12%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 108744   | 42.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.06%  |          |

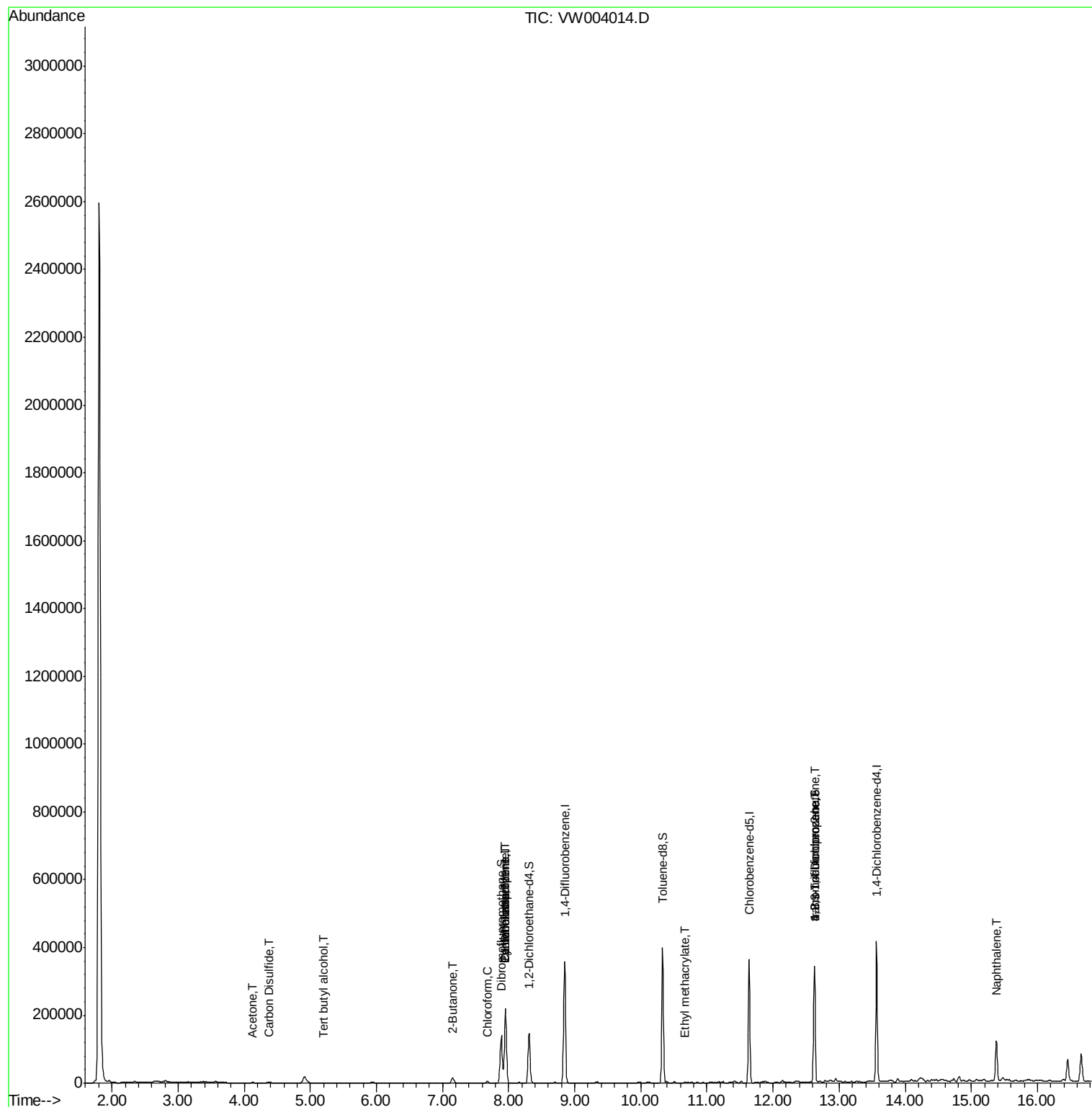
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59   | 385      | 3.183   | ug/l # | 72     |
| 16) Acetone                    | 4.12  | 43   | 2634     | 6.255   | ug/l # | 87     |
| 17) Carbon Disulfide           | 4.38  | 76   | 8234     | 1.731   | ug/l   | 96     |
| 25) 2-Butanone                 | 7.15  | 43   | 1083     | 1.911   | ug/l # | 51     |
| 30) Chloroform                 | 7.68  | 83   | 4193     | 1.359   | ug/l   | 86     |
| 31) Cyclohexane                | 7.95  | 56   | 4457     | 1.533   | ug/l # | 20     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 12859    | 4.389   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 16062    | 5.867   | ug/l # | 18     |
| 56) Ethyl methacrylate         | 10.67 | 69   | 342      | 3.095   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 57621    | 56.365  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 57621    | 124.678 | ug/l # | 11     |
| 95) Naphthalene                | 15.38 | 128  | 101577   | 25.291  | ug/l   | 100    |

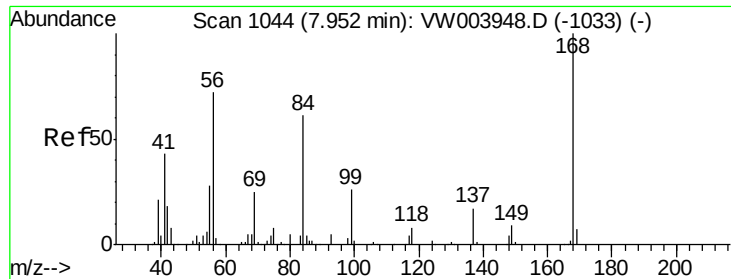
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071718\  
Data File : VW004014.D  
Acq On : 18 Jul 2018 06:02  
Operator : VA/AP  
Sample : J3829-05RE  
Misc : 6.25G/5ML/MSVOA W/SOIL  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
PL-01-071318-CRE

Quant Time: Jul 18 07:44:19 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 16 15:06:12 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: VW004014.D

Acq: 18 Jul 2018 06:02

Instrument :

MSVOA\_W

ClientSampleId :

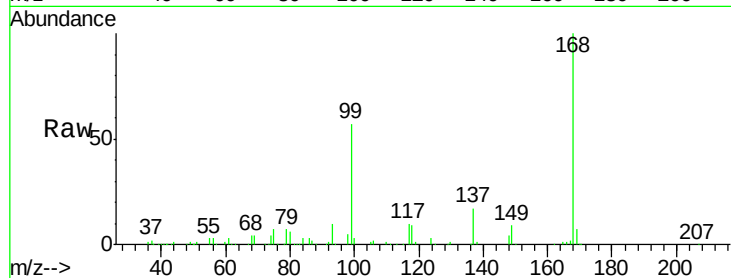
PL-01-071318-CRE

Tot Ion:168 Resp: 156773

Ion Ratio Lower Upper

168 100

99 56.8 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

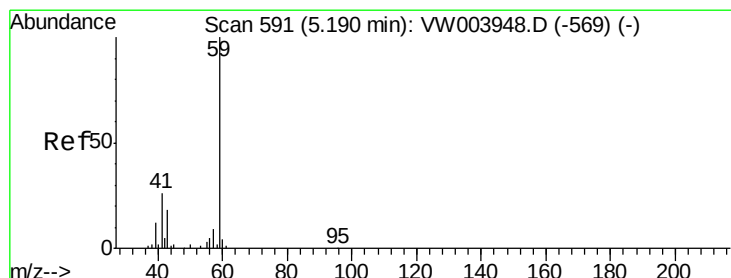
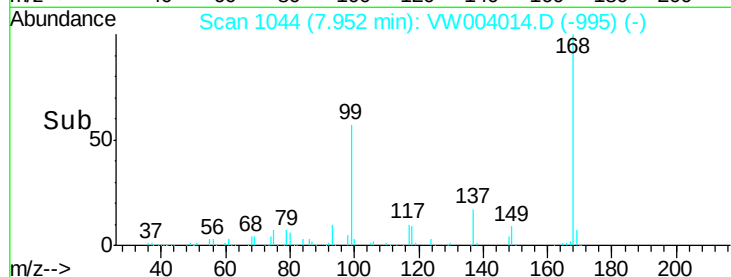
40000

20000

0

Time-->

7.90 8.00



#11

Tert butyl alcohol

Concen: 3.183 ug/l

RT: 5.19 min Scan# 591

Delta R.T. 0.00 min

Lab File: VW004014.D

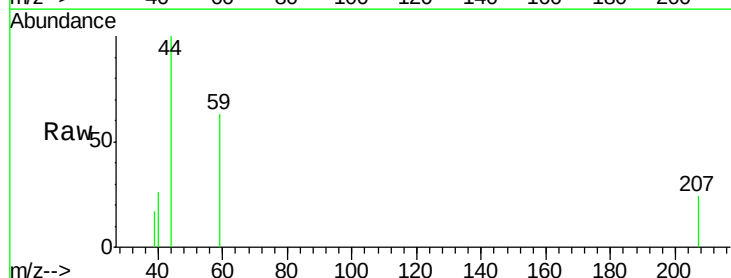
Acq: 18 Jul 2018 06:02

Tgt Ion: 59 Resp: 385

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.19

200

150

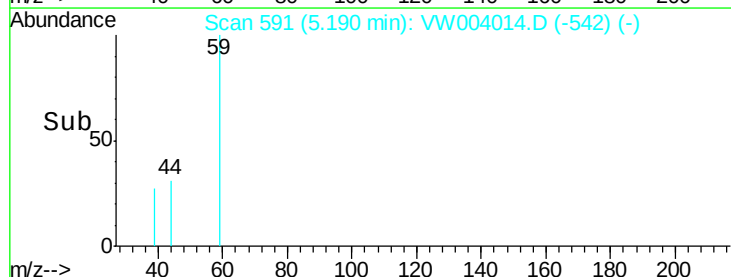
100

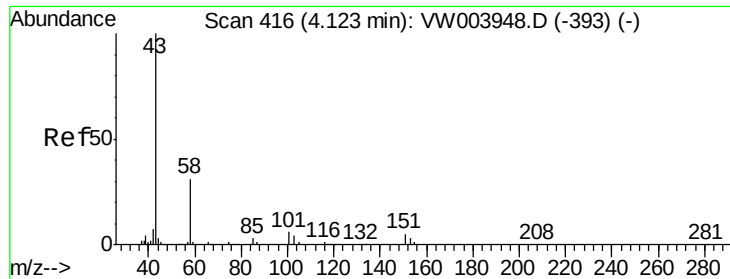
50

0

Time-->

5.15 5.20





#16

Acetone

Concen: 6.255 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.00 min

Lab File: VW004014.D

Acq: 18 Jul 2018 06:02

Instrument :

MSVOA\_W

ClientSampleId :

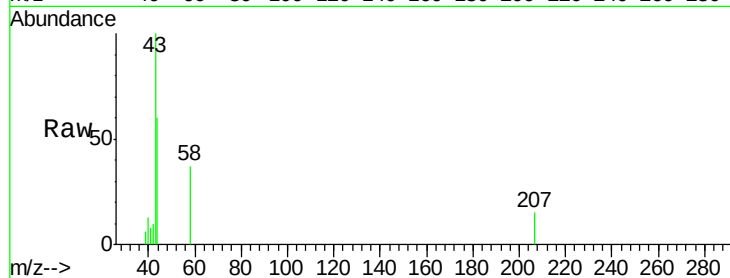
PL-01-071318-CRE

Tot Ion: 43 Resp: 2634

Ion Ratio Lower Upper

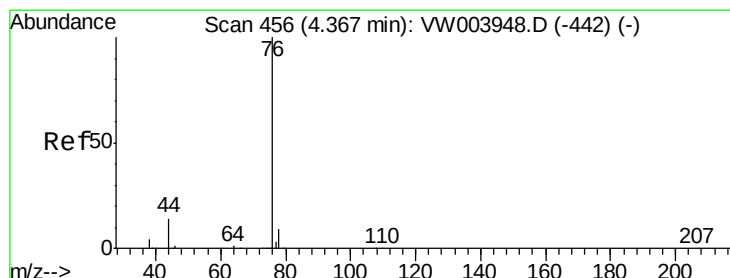
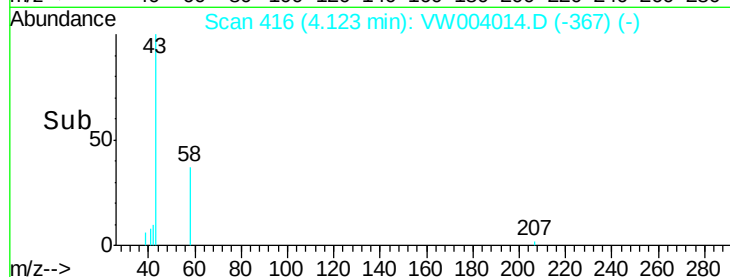
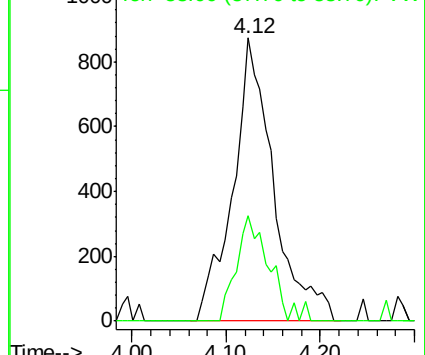
43 100

58 37.5 24.5 36.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 1.731 ug/l

RT: 4.38 min Scan# 458

Delta R.T. 0.01 min

Lab File: VW004014.D

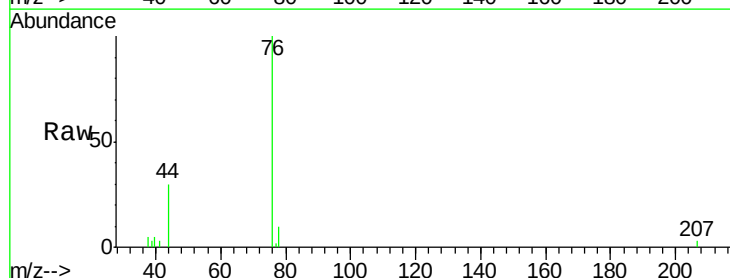
Acq: 18 Jul 2018 06:02

Tgt Ion: 76 Resp: 8234

Ion Ratio Lower Upper

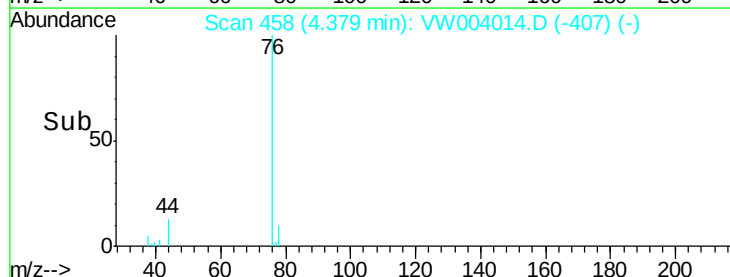
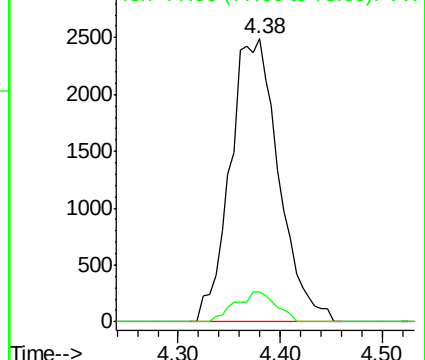
76 100

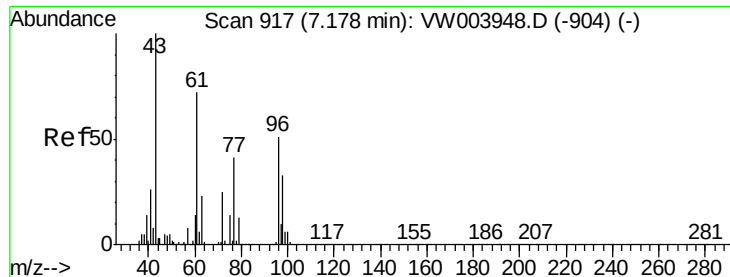
78 10.4 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW





#25

2-Butanone

Concen: 1.911 ug/l

RT: 7.15 min Scan# 912

Delta R.T. -0.03 min

Lab File: VW004014.D

Acq: 18 Jul 2018 06:02

Instrument :

MSVOA\_W

ClientSampleId :

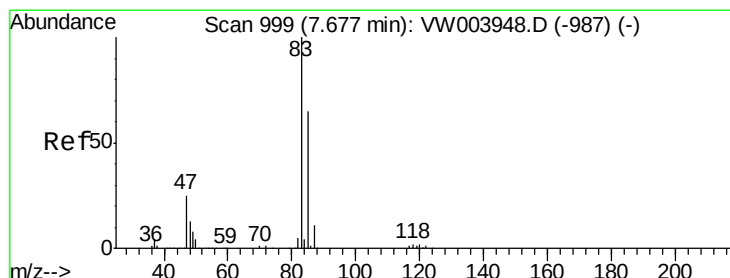
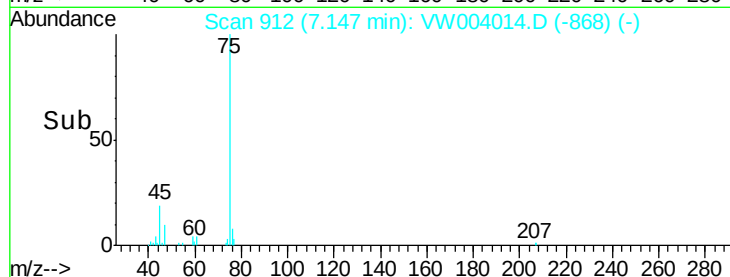
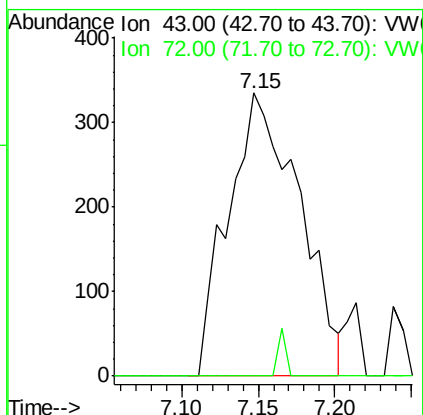
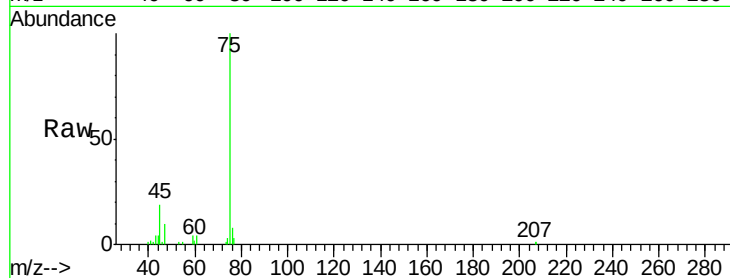
PL-01-071318-CRE

Tot Ion: 43 Resp: 1083

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#



#30

Chloroform

Concen: 1.359 ug/l

RT: 7.68 min Scan# 999

Delta R.T. 0.00 min

Lab File: VW004014.D

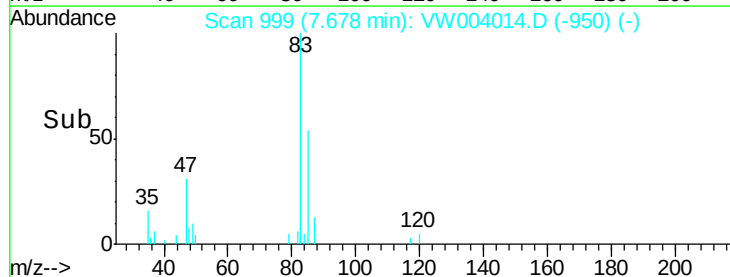
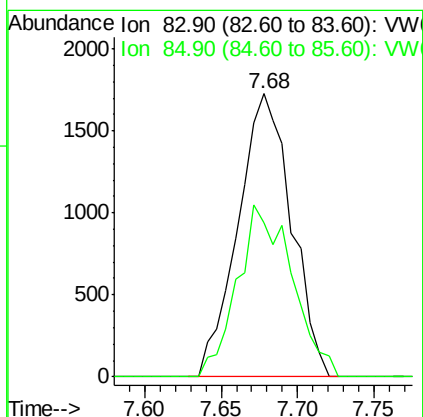
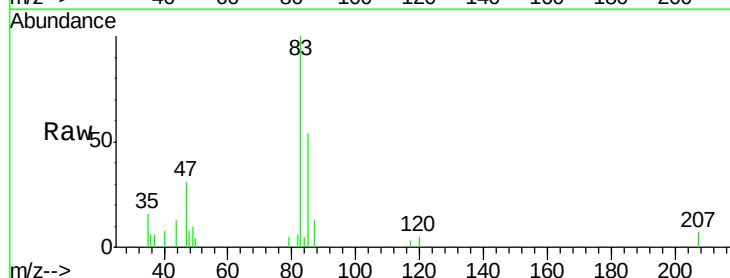
Acq: 18 Jul 2018 06:02

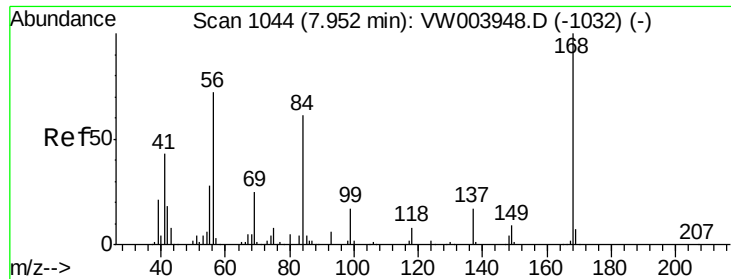
Tgt Ion: 83 Resp: 4193

Ion Ratio Lower Upper

83 100

85 54.5 52.2 78.4

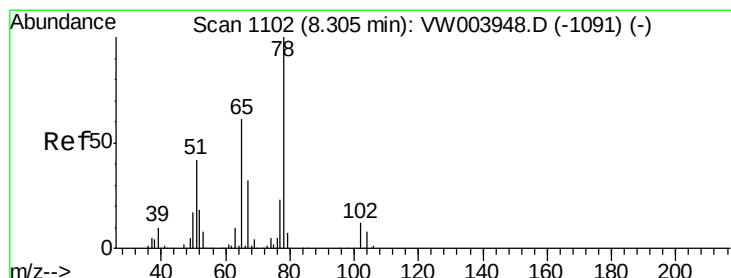
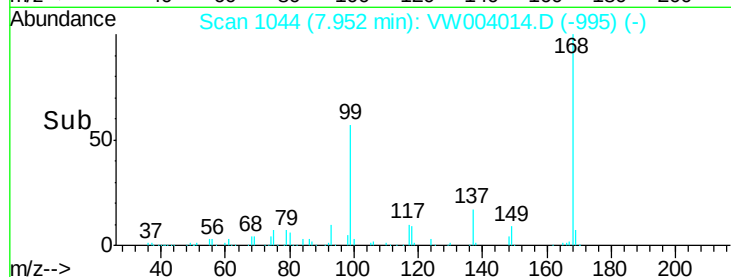
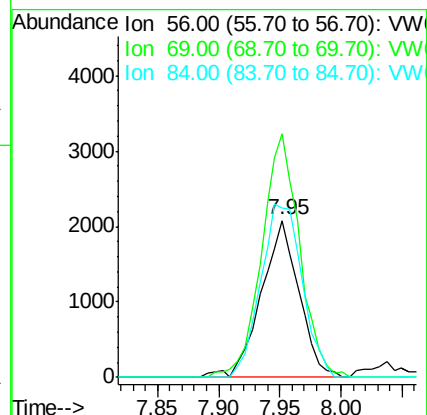
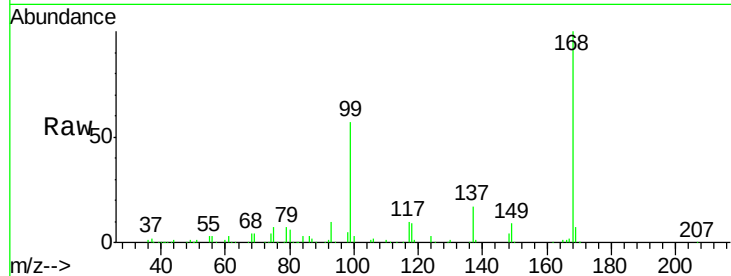




#31  
Cyclohexane  
Concen: 1.533 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: VW004014.D  
Acq: 18 Jul 2018 06:02

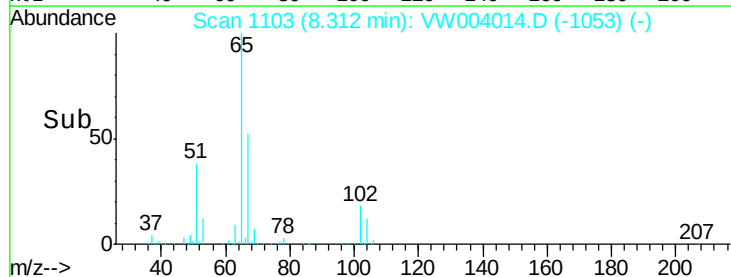
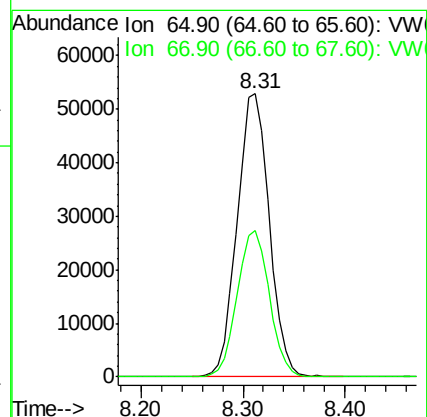
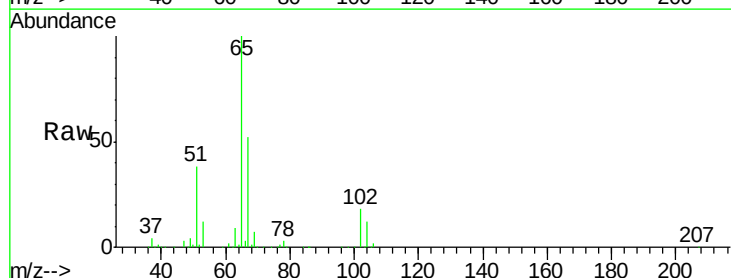
Instrument :  
MSVOA\_W  
ClientSampleId :  
PL-01-071318-CRE

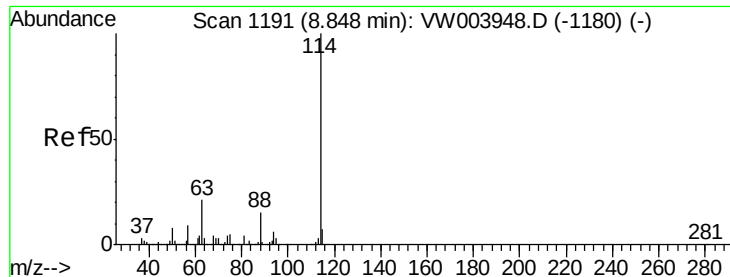
Tot Ion: 56 Resp: 4457  
Ion Ratio Lower Upper  
56 100  
69 155.1 27.8 41.8#  
84 107.9 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 65.731 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. 0.01 min  
Lab File: VW004014.D  
Acq: 18 Jul 2018 06:02

Tgt Ion: 65 Resp: 115188  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 105.0

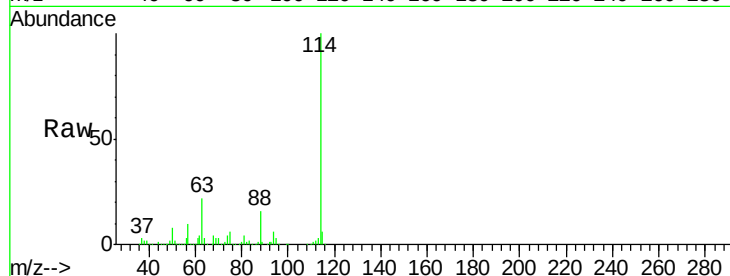




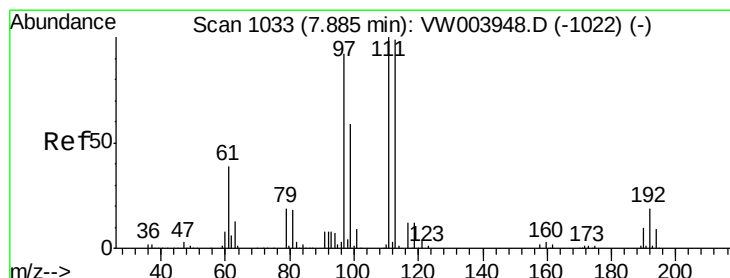
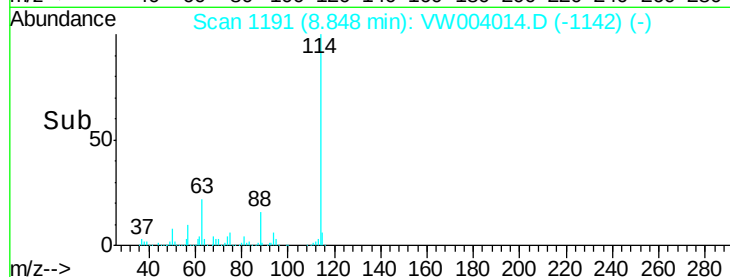
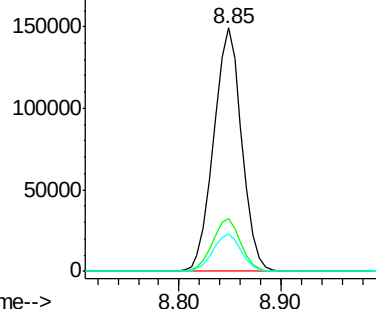
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004014.D  
 Acq: 18 Jul 2018 06:02

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PL-01-071318-CRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.0  | 0.0   | 42.8  |
| 88      | 15.5  | 0.0   | 30.4  |

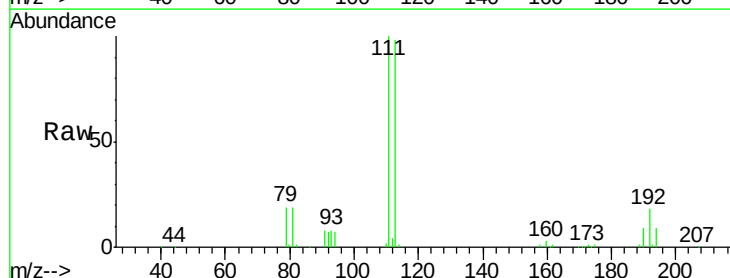


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VV  
 Ion 87.90 (87.60 to 88.60): VV

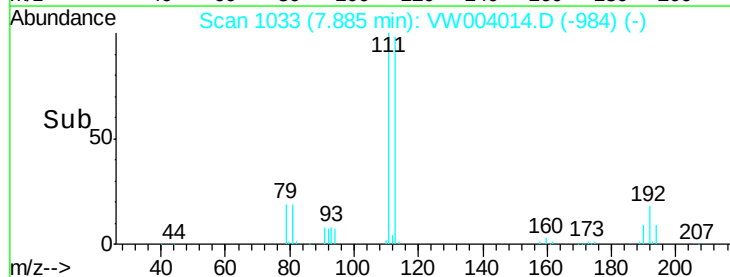
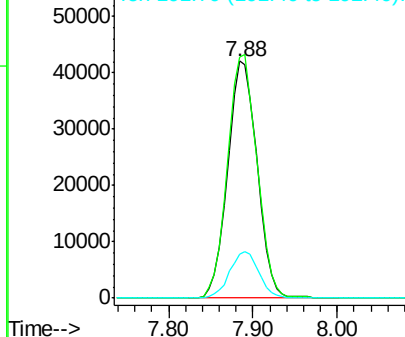


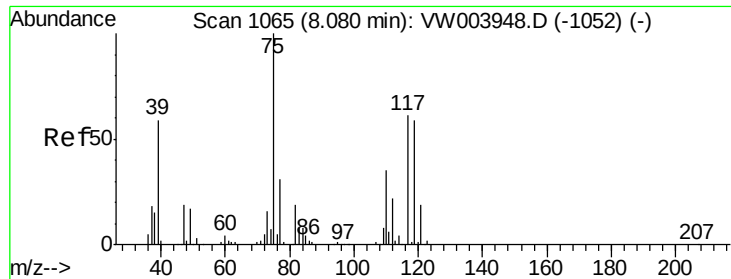
#35  
 Dibromofluoromethane  
 Concen: 54.549 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004014.D  
 Acq: 18 Jul 2018 06:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 81.3  | 121.9 |
| 192     | 19.4  | 15.8  | 23.6  |



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

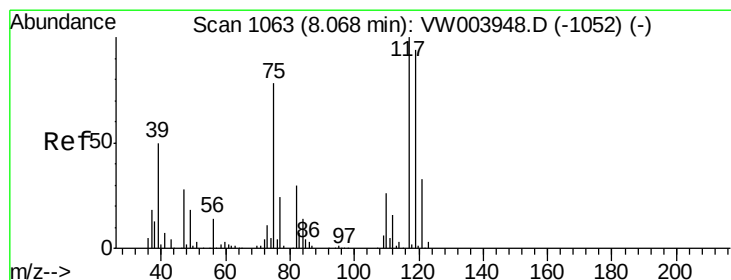
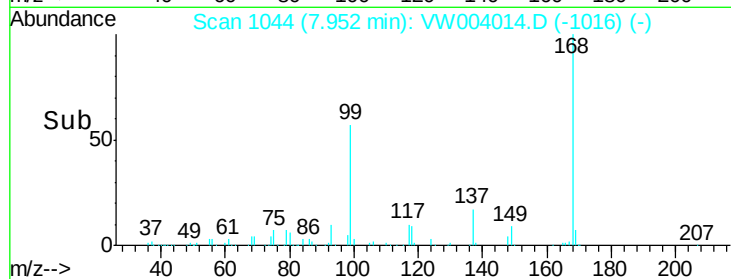
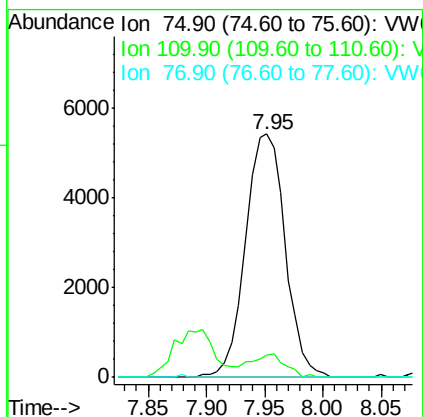
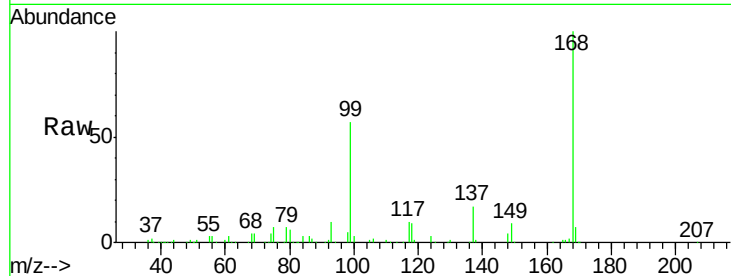




#36  
 1,1-Dichloropropene  
 Concen: 4.389 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW004014.D  
 Acq: 18 Jul 2018 06:02

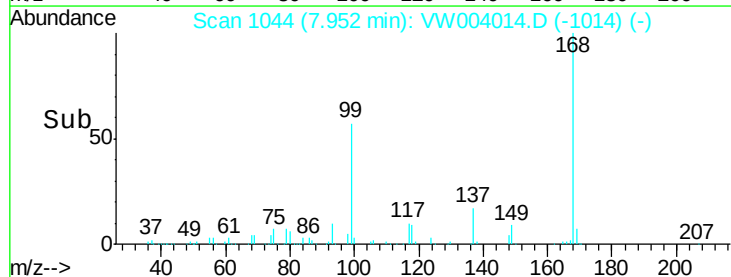
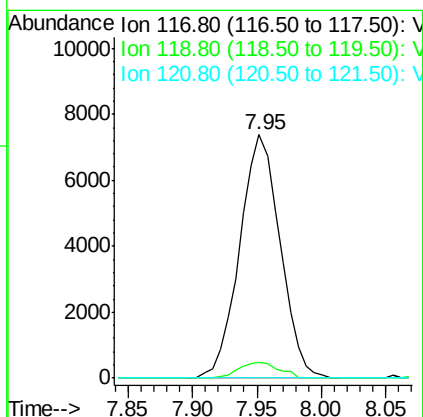
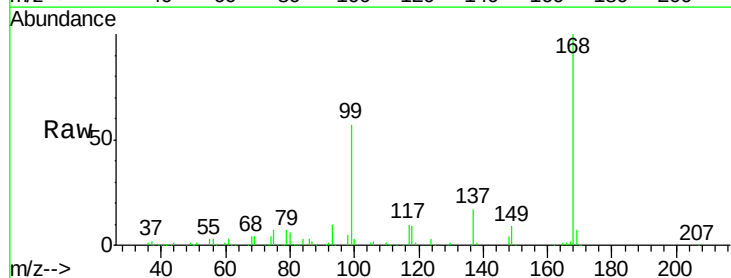
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PL-01-071318-CRE

| Tot Ion   | 75    | Resp  | 12859 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 9.1   | 17.0  | 51.0# |
| 77        | 0.0   | 24.9  | 37.3# |

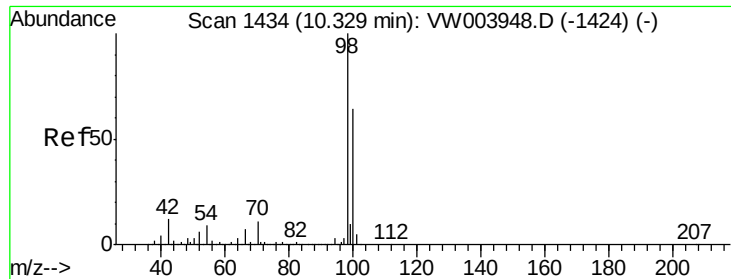


#38  
 Carbon Tetrachloride  
 Concen: 5.867 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.12 min  
 Lab File: VW004014.D  
 Acq: 18 Jul 2018 06:02

| Tgt Ion   | 117   | Resp  | 16062  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 6.6   | 75.3  | 112.9# |
| 121       | 0.0   | 26.0  | 39.0#  |



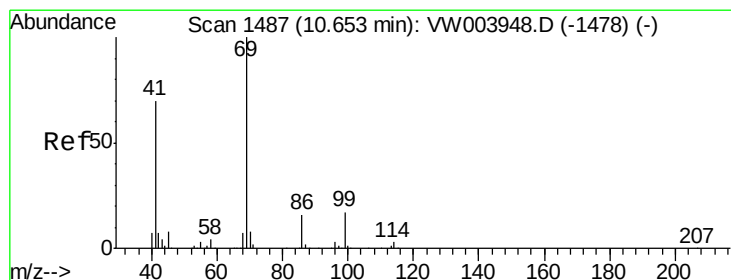
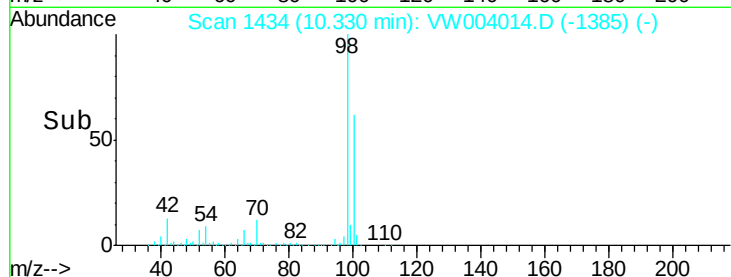
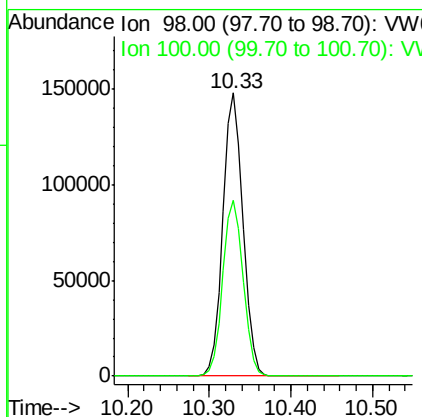
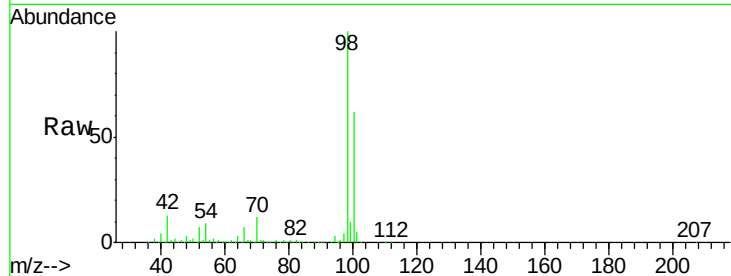




#50  
Toluene-d8  
Concen: 35.564 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.00 min  
Lab File: VW004014.D  
Acq: 18 Jul 2018 06:02

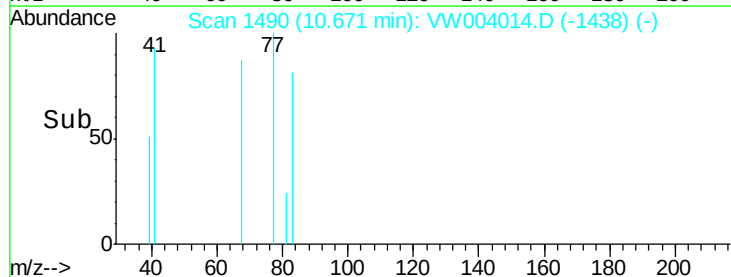
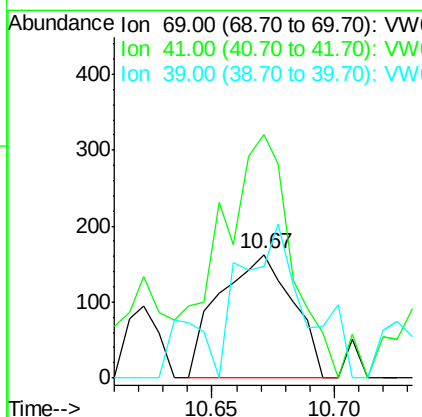
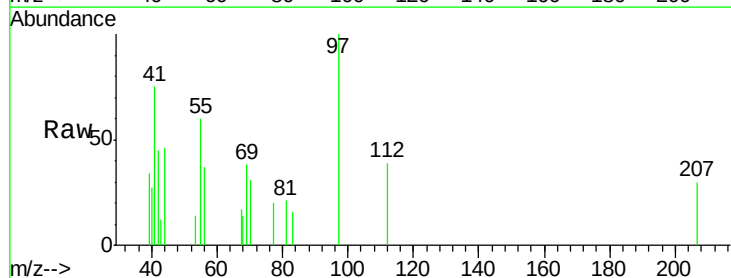
Instrument :  
MSVOA\_W  
ClientSampleId :  
PL-01-071318-CRE

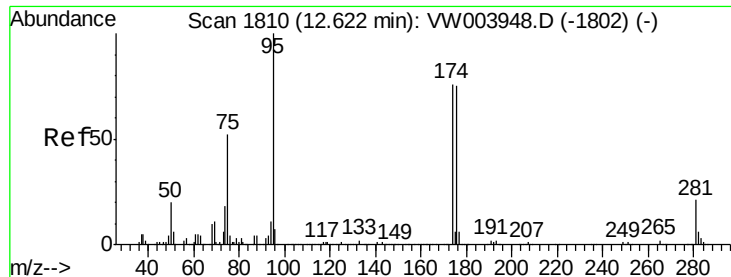
Tot Ion: 98 Resp: 252162  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.2 76.8



#56  
Ethyl methacrylate  
Concen: 3.095 ug/l  
RT: 10.67 min Scan# 1490  
Delta R.T. 0.02 min  
Lab File: VW004014.D  
Acq: 18 Jul 2018 06:02

Tgt Ion: 69 Resp: 342  
Ion Ratio Lower Upper  
69 100  
41 190.1 56.5 84.7#  
39 106.4 30.2 45.4#

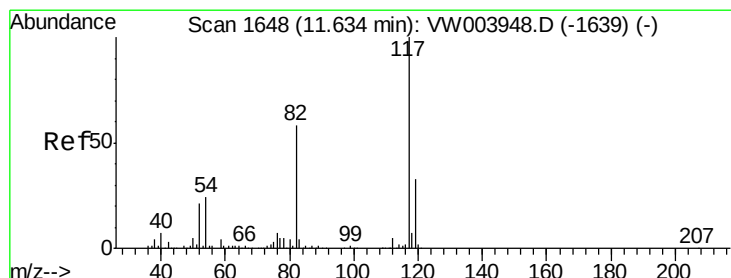
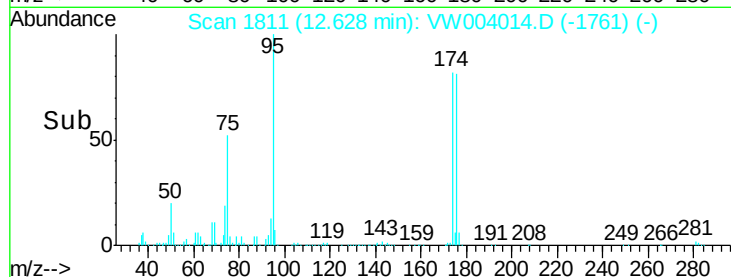
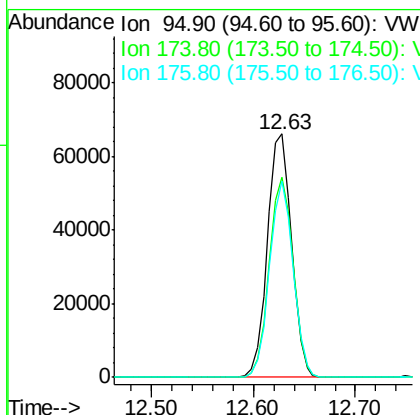
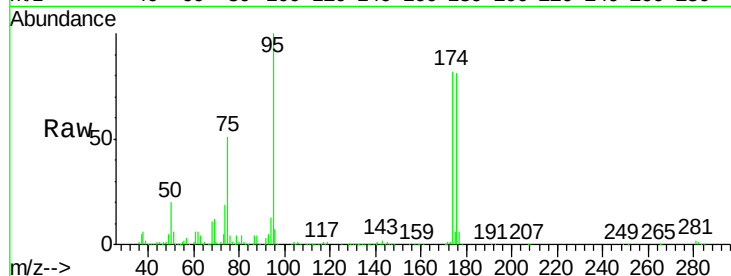




#62  
4-Bromofluorobenzene  
Concen: 42.532 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. 0.01 min  
Lab File: VW004014.D  
Acq: 18 Jul 2018 06:02

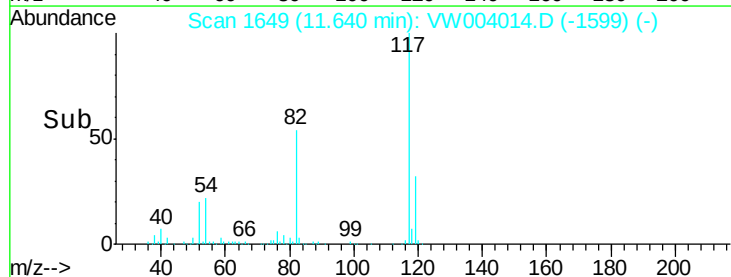
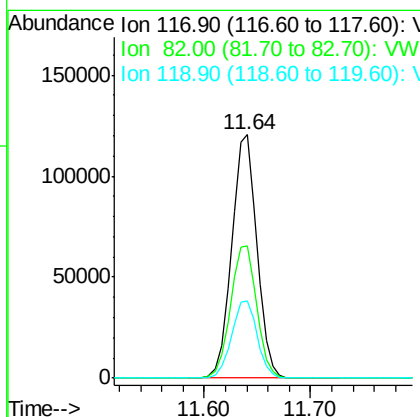
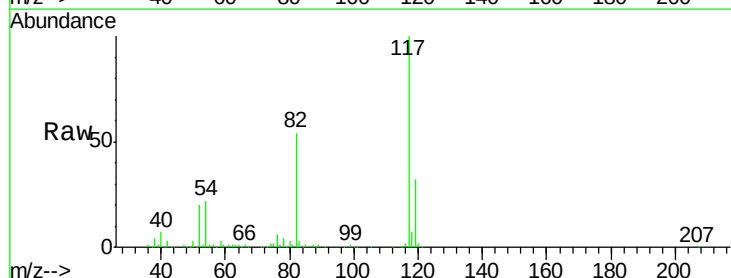
Instrument :  
MSVOA\_W  
ClientSampleId :  
PL-01-071318-CRE

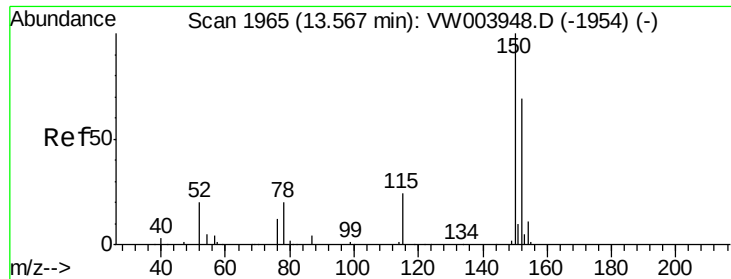
Tot Ion: 95 Resp: 108744  
Ion Ratio Lower Upper  
95 100  
174 80.8 0.0 160.2  
176 78.2 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. 0.01 min  
Lab File: VW004014.D  
Acq: 18 Jul 2018 06:02

Tgt Ion: 117 Resp: 199122  
Ion Ratio Lower Upper  
117 100  
82 54.4 46.5 69.7  
119 31.6 26.2 39.2



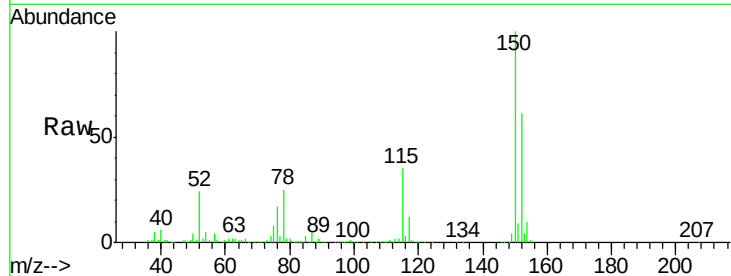


#72

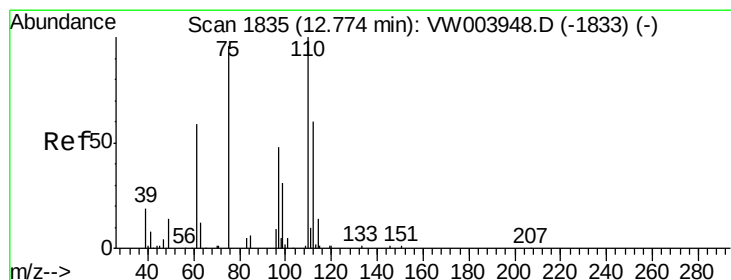
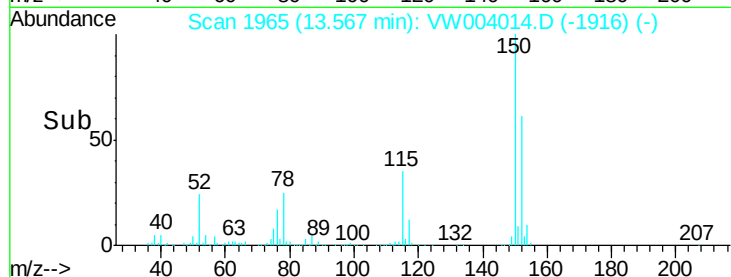
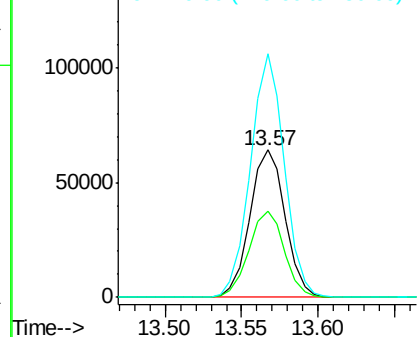
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW004014.D  
Acq: 18 Jul 2018 06:02

Instrument :  
MSVOA\_W  
ClientSampleId :  
PL-01-071318-CRE

Tot Ion:152 Resp: 102973  
Ion Ratio Lower Upper  
152 100  
115 58.7 29.2 87.6  
150 158.2 0.0 345.2



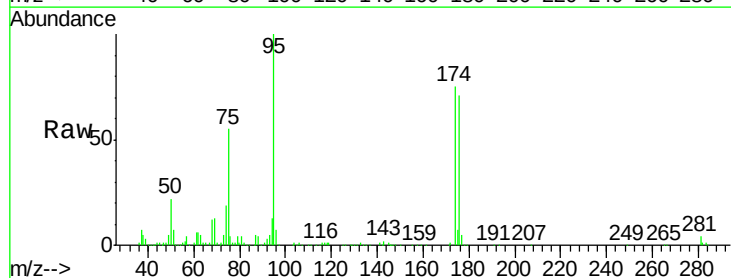
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



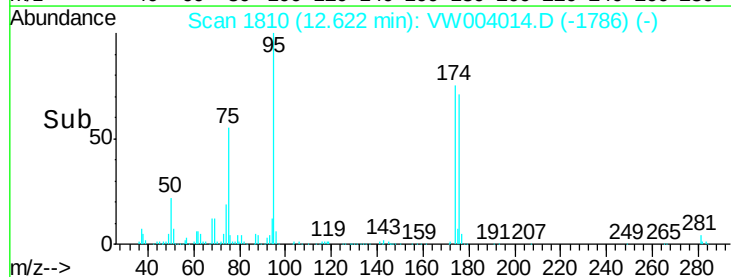
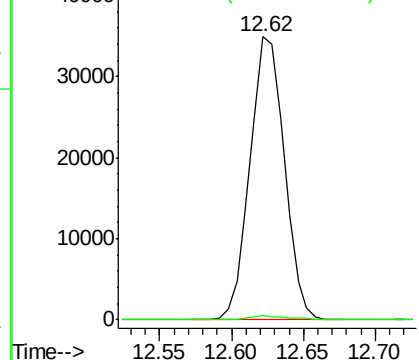
#76

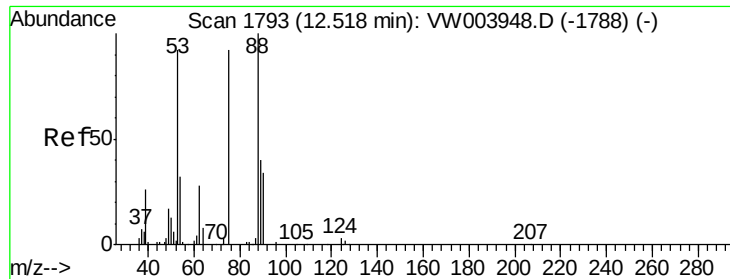
1,2,3-Trichloropropane  
Concen: 56.365 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.15 min  
Lab File: VW004014.D  
Acq: 18 Jul 2018 06:02

Tgt Ion: 75 Resp: 57621  
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

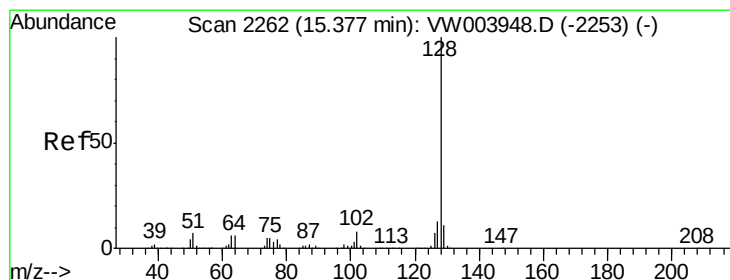
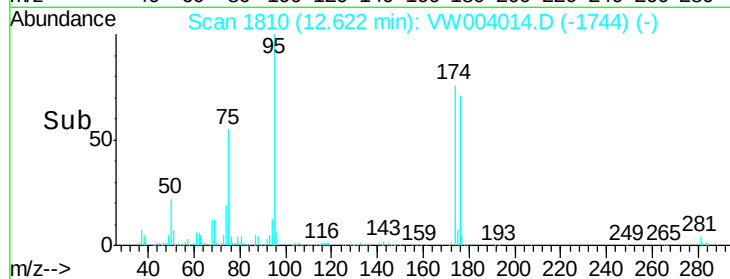
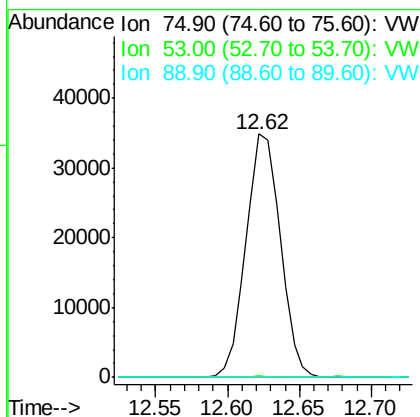
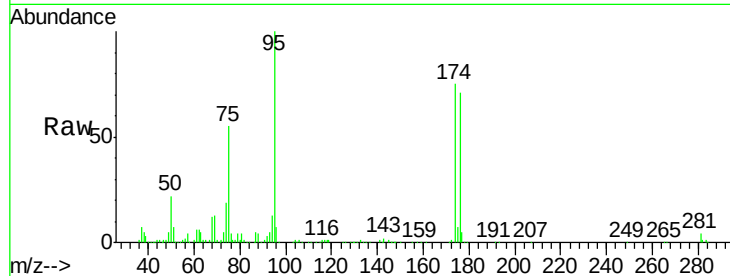




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 124.678 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. 0.10 min  
 Lab File: VW004014.D  
 Acq: 18 Jul 2018 06:02

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PL-01-071318-CRE

Tot Ion: 75 Resp: 57621  
 Ion Ratio Lower Upper  
 75 100  
 53 0.8 77.6 116.4#  
 89 0.1 36.6 54.8#



#95  
 Naphthalene  
 Concen: 25.291 ug/l  
 RT: 15.38 min Scan# 2262  
 Delta R.T. 0.00 min  
 Lab File: VW004014.D  
 Acq: 18 Jul 2018 06:02

Tgt Ion: 128 Resp: 101577  
 Ion Ratio Lower Upper  
 128 100  
 127 13.4 10.7 16.1  
 129 11.1 8.7 13.1

