

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073018\  
 Data File : VW004345.D  
 Acq On : 30 Jul 2018 06:44  
 Operator : SY/AP  
 Sample : J4109-04  
 Misc : 8.12G/5ML/MSVOA W/SOIL  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 30 08:33:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 30 02:37:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 21478    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 27319    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 20257    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 6767     | 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   | 8793     | 40.59 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.18% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 8152     | 47.22 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.44% |          |
| 50) Toluene-d8              | 10.33 | 98   | 29026    | 42.54 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.08% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 6635     | 27.62 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 55.24% |          |

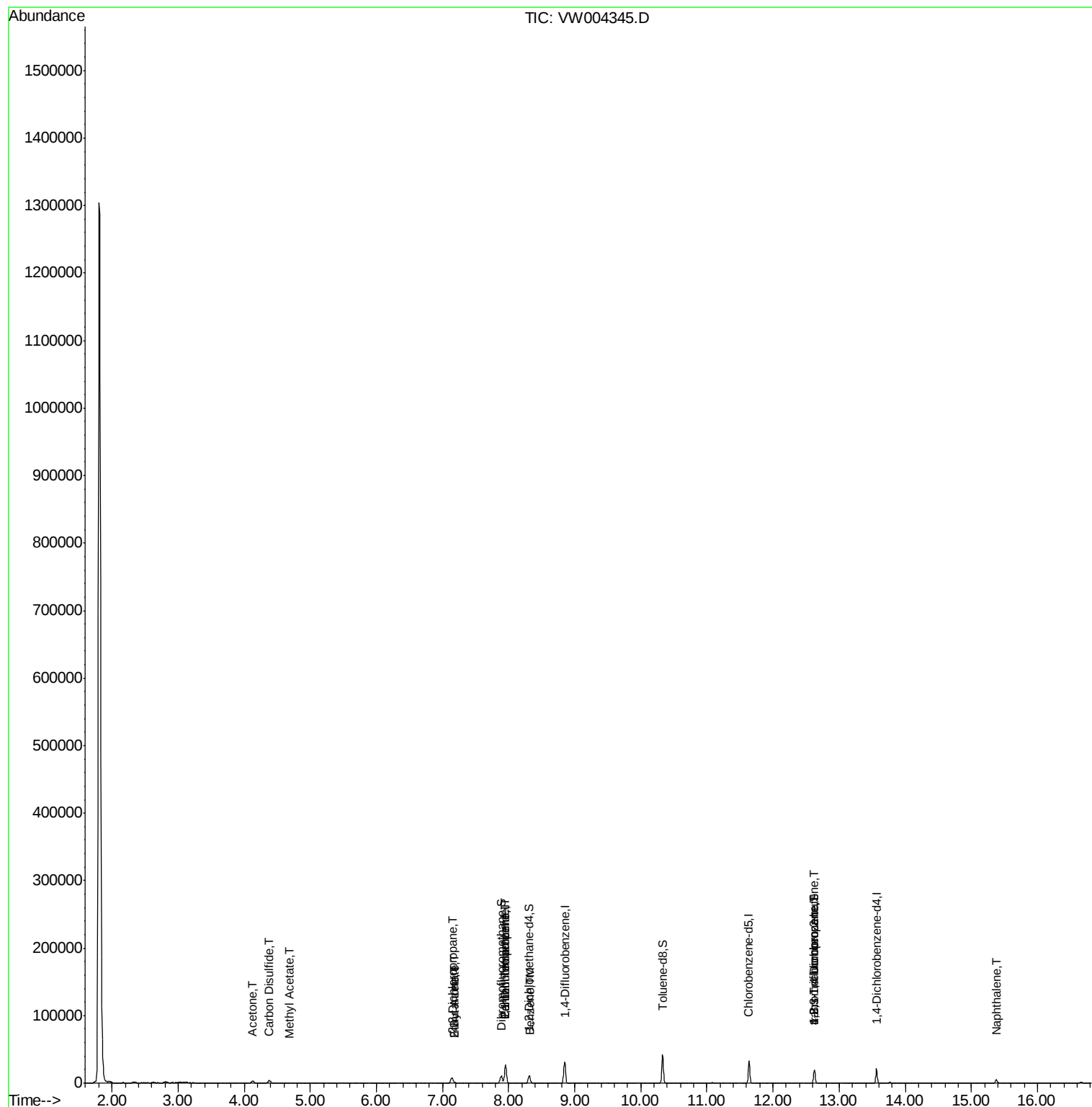
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 4.13  | 43   | 5939     | 117.528 | ug/l   | 99     |
| 17) Carbon Disulfide           | 4.37  | 76   | 7866     | 12.505  | ug/l   | 95     |
| 18) Methyl Acetate             | 4.68  | 43   | 20       | 1.031   | ug/l # | 54     |
| 25) 2-Butanone                 | 7.19  | 43   | 1720     | 28.585  | ug/l   | 91     |
| 26) 2,2-Dichloropropane        | 7.14  | 77   | 436      | 1.794   | ug/l # | 52     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 1447     | 5.295   | ug/l # | 42     |
| 37) Ethyl Acetate              | 7.19  | 43   | 1720     | 15.358  | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 2102     | 7.789   | ug/l # | 10     |
| 40) Benzene                    | 8.34  | 78   | 1446     | 1.881   | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 3000     | 48.576  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 3000     | 113.030 | ug/l # | 11     |
| 95) Naphthalene                | 15.38 | 128  | 5124     | 20.882  | ug/l   | 99     |

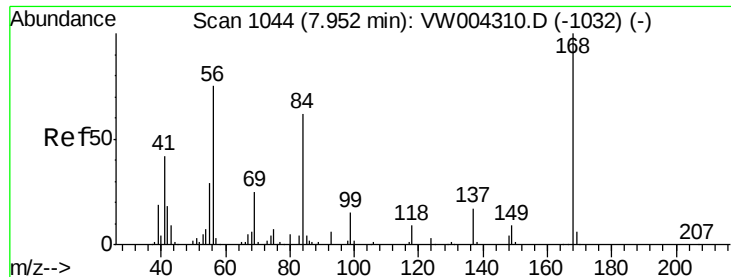
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW073018\  
Data File : VW004345.D  
Acq On : 30 Jul 2018 06:44  
Operator : SY/AP  
Sample : J4109-04  
Misc : 8.12G/5ML/MSVOA W/SOIL  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jul 30 08:33:33 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 30 02:37:04 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: VW004345.D

Acq: 30 Jul 2018 06:44

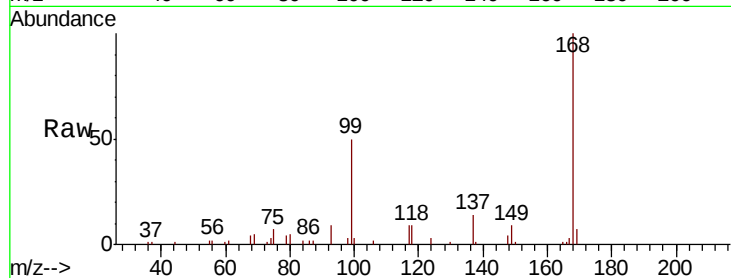
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 21478

Ion Ratio Lower Upper

168 100

99 49.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

12000

10000

8000

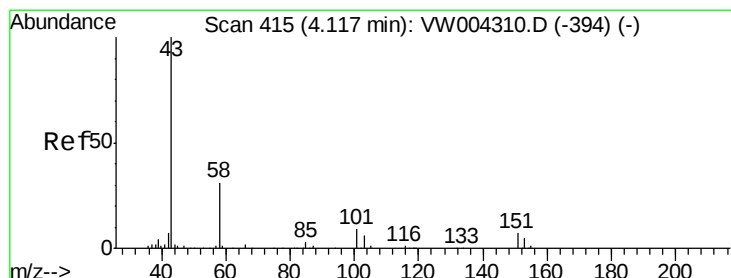
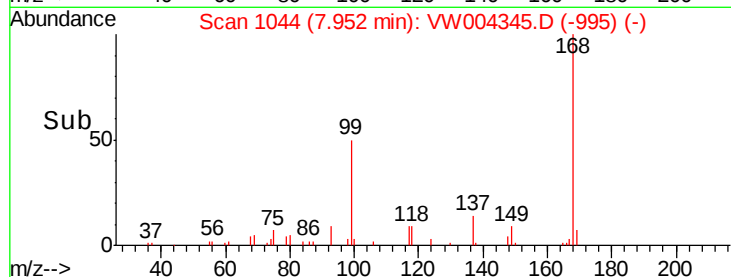
6000

4000

2000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#16

Acetone

Concen: 117.528 ug/l

RT: 4.13 min Scan# 417

Delta R.T. 0.01 min

Lab File: VW004345.D

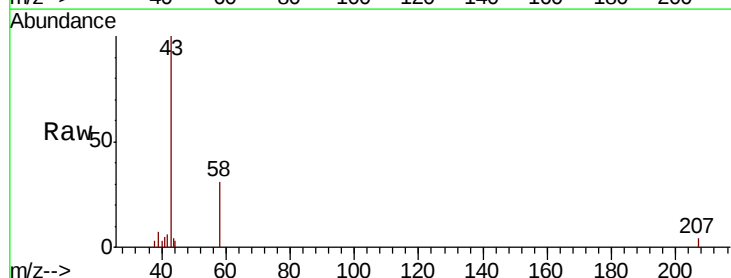
Acq: 30 Jul 2018 06:44

Tgt Ion: 43 Resp: 5939

Ion Ratio Lower Upper

43 100

58 31.4 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

2000

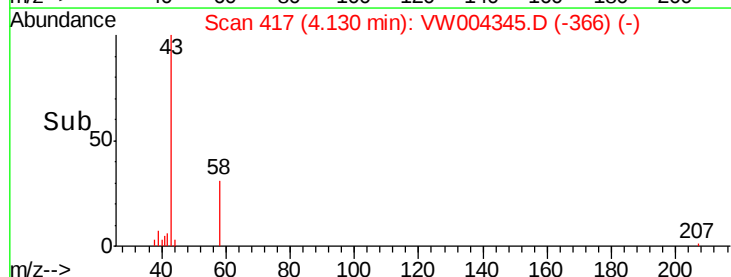
1500

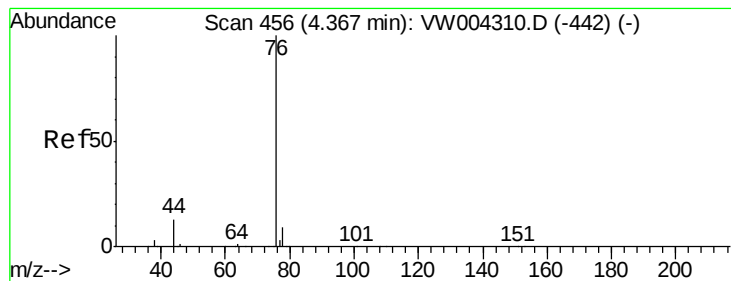
1000

500

0

Time--> 4.00 4.10 4.20





#17

Carbon Disulfide

Concen: 12.505 ug/l

RT: 4.37 min Scan# 457

Delta R.T. 0.01 min

Lab File: VW004345.D

Acq: 30 Jul 2018 06:44

Instrument :

MSVOA\_W

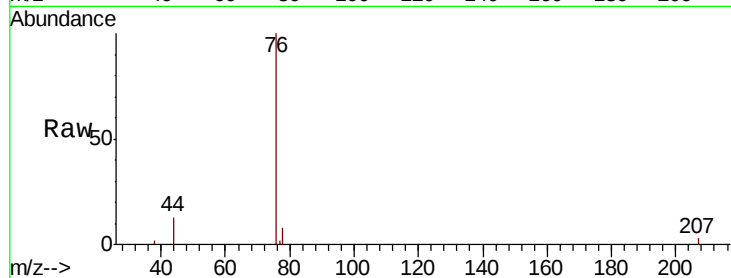
ClientSampleId :

Tot Ion: 76 Resp: 7866

Ion Ratio Lower Upper

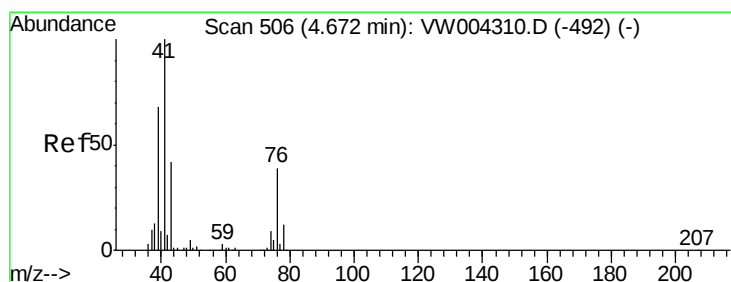
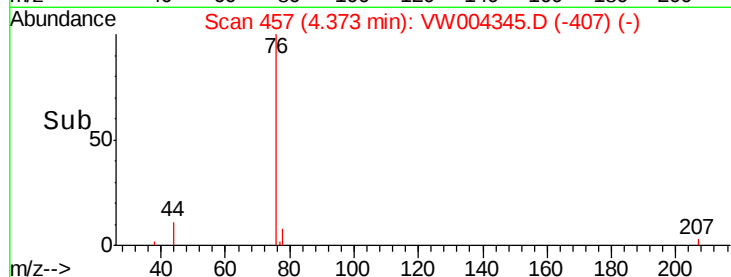
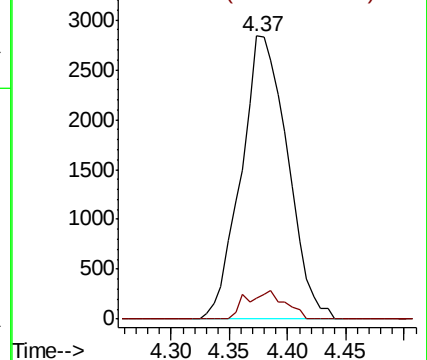
76 100

78 7.5 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 1.031 ug/l

RT: 4.68 min Scan# 508

Delta R.T. 0.01 min

Lab File: VW004345.D

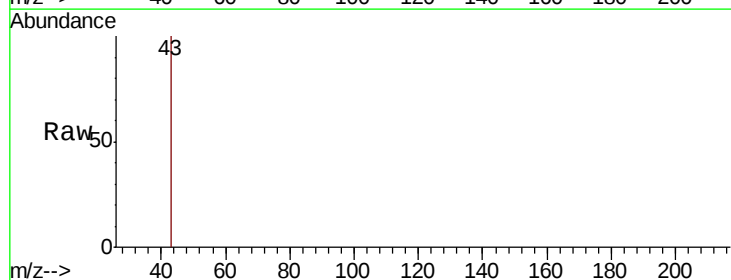
Acq: 30 Jul 2018 06:44

Tgt Ion: 43 Resp: 20

Ion Ratio Lower Upper

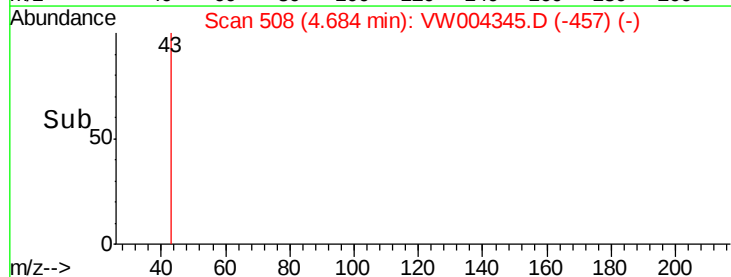
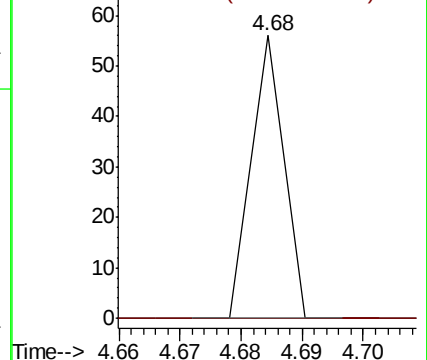
43 100

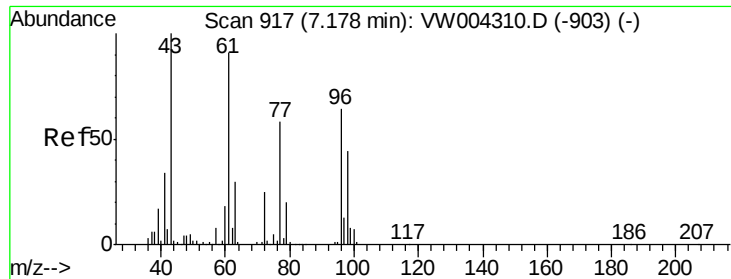
74 0.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





#25

2-Butanone

Concen: 28.585 ug/l

RT: 7.19 min Scan# 919

Delta R.T. 0.01 min

Lab File: VW004345.D

Acq: 30 Jul 2018 06:44

Instrument :

MSVOA\_W

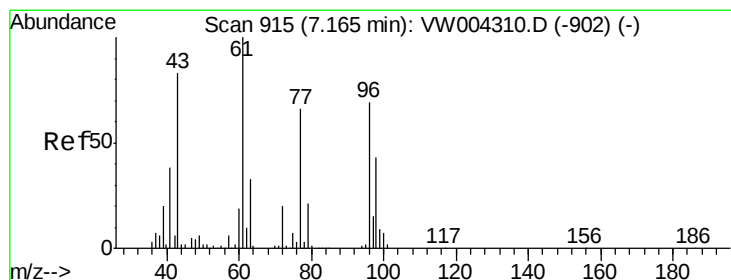
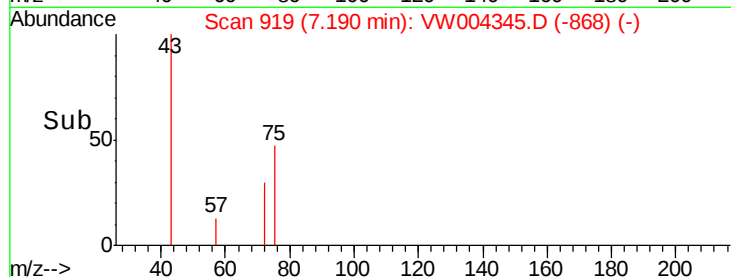
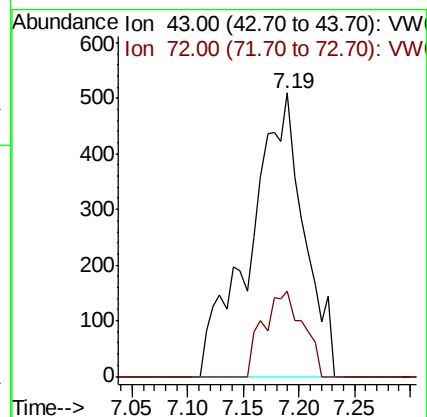
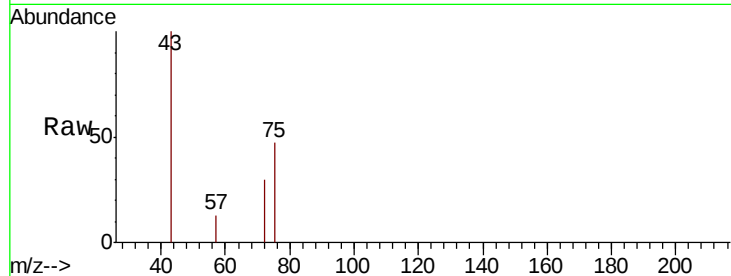
ClientSampled :

Tot Ion: 43 Resp: 1720

Ion Ratio Lower Upper

43 100

72 30.1 20.3 30.5



#26

2,2-Dichloropropane

Concen: 1.794 ug/l

RT: 7.14 min Scan# 911

Delta R.T. -0.02 min

Lab File: VW004345.D

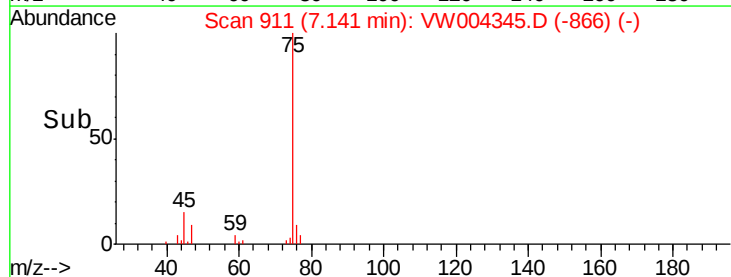
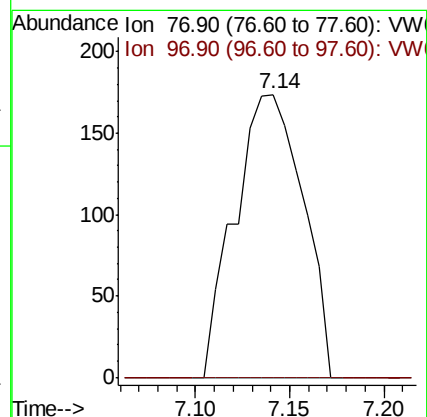
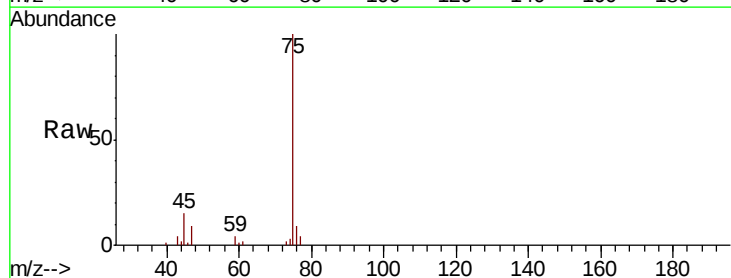
Acq: 30 Jul 2018 06:44

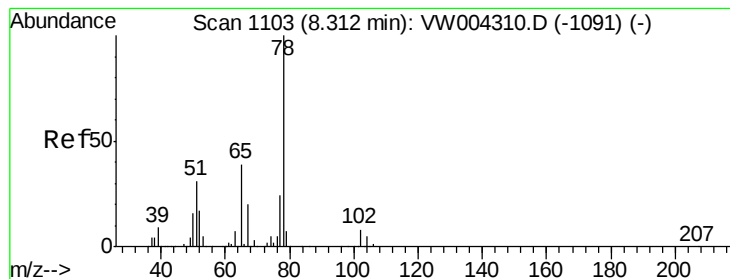
Tgt Ion: 77 Resp: 436

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.1#





#33

1,2-Dichloroethane-d4

Concen: 40.585 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW004345.D

Acq: 30 Jul 2018 06:44

Instrument :

MSVOA\_W

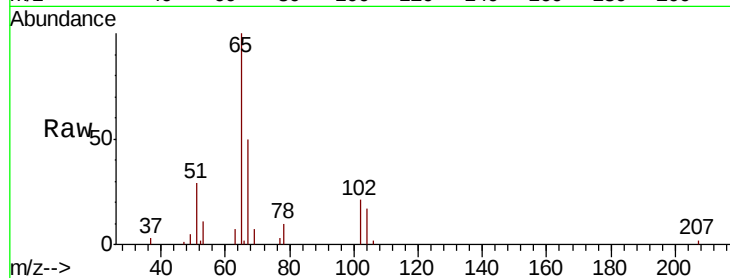
ClientSampleId :

Tot Ion: 65 Resp: 8793

Ion Ratio Lower Upper

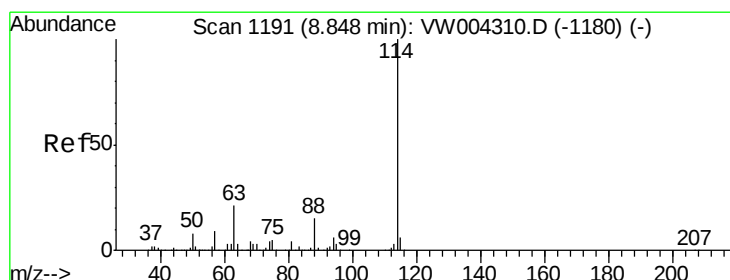
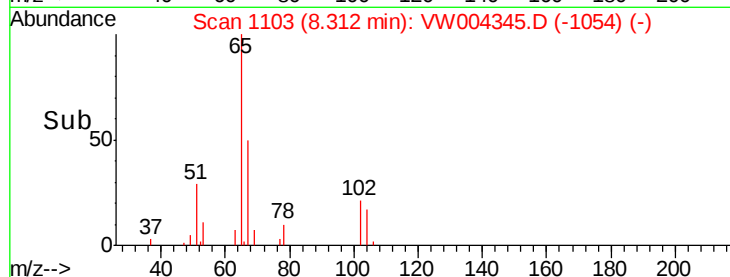
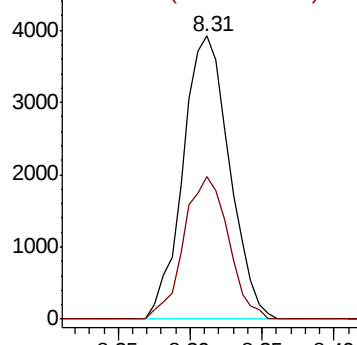
65 100

67 48.2 0.0 106.4



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: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW004345.D

Acq: 30 Jul 2018 06:44

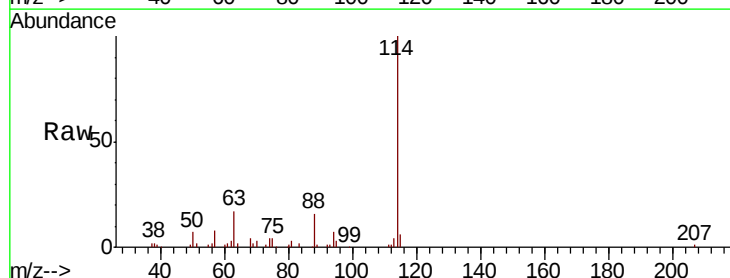
Tgt Ion: 114 Resp: 27319

Ion Ratio Lower Upper

114 100

63 17.0 0.0 41.4

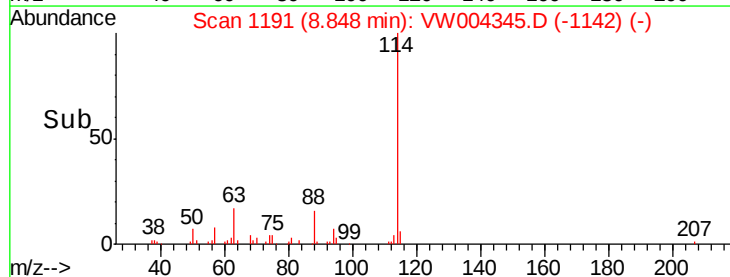
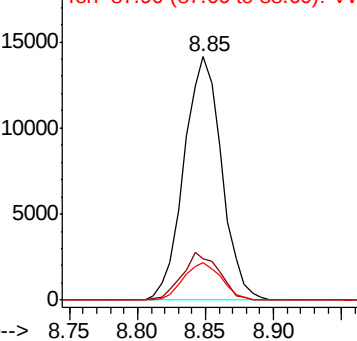
88 15.5 0.0 30.6

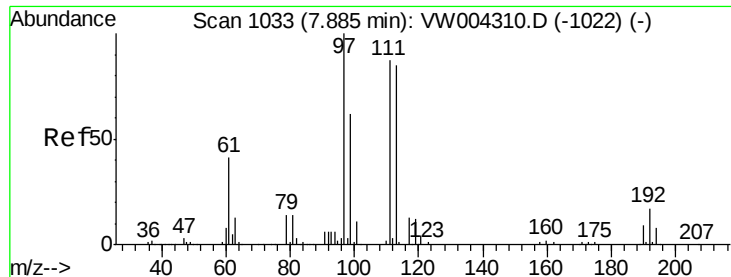


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

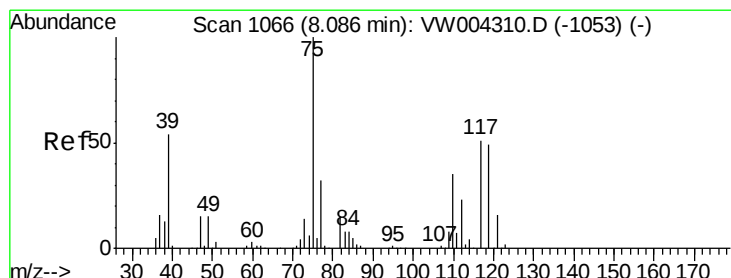
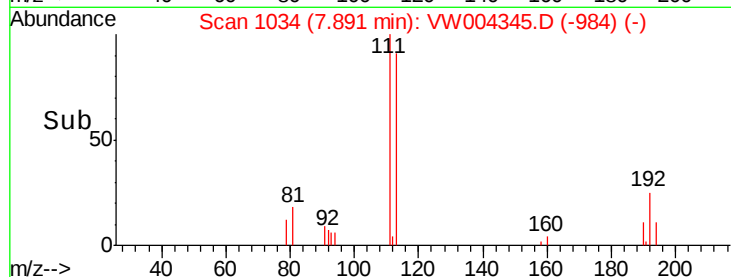
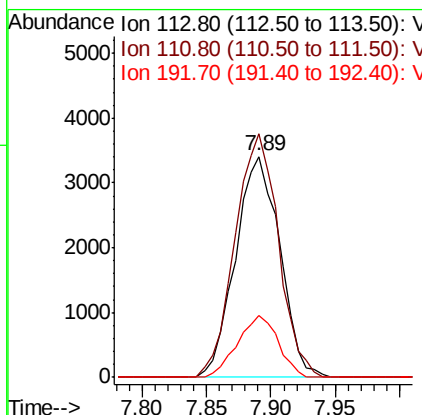
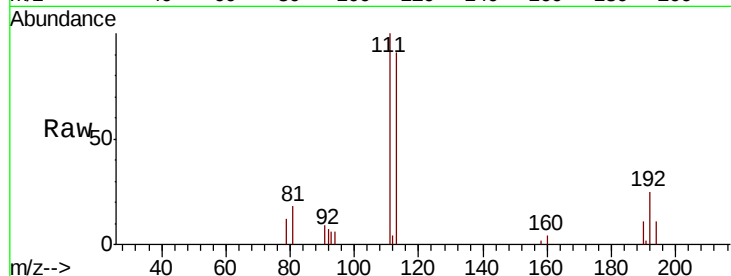




#35  
 Dibromofluoromethane  
 Concen: 47.218 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.01 min  
 Lab File: VW004345.D  
 Acq: 30 Jul 2018 06:44

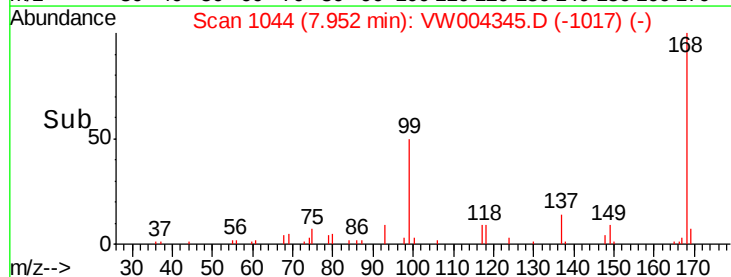
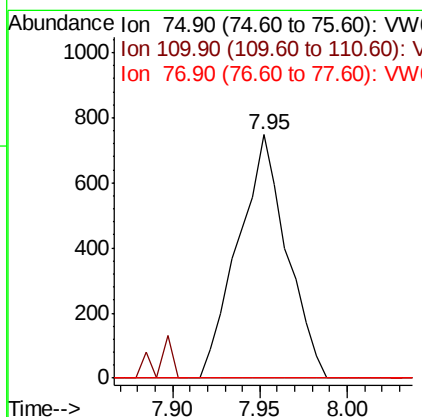
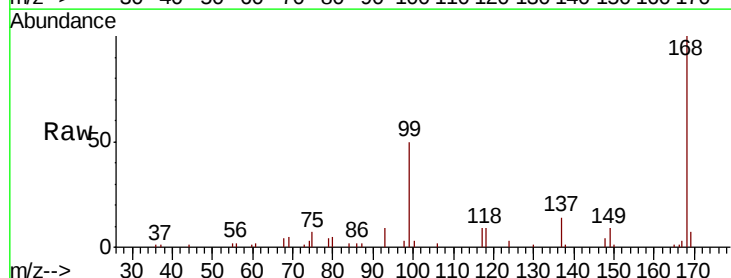
Instrument :  
 MSVOA\_W  
 ClientSampleId :

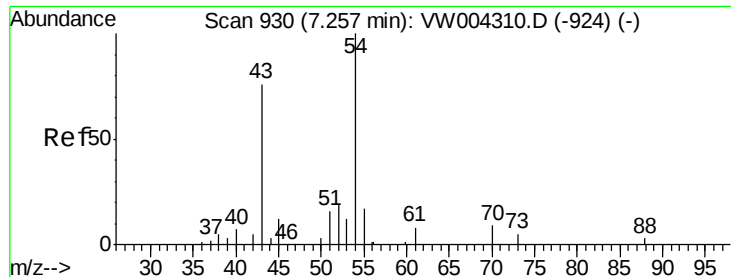
Tot Ion:113 Resp: 8152  
 Ion Ratio Lower Upper  
 113 100  
 111 107.6 82.1 123.1  
 192 25.4 16.2 24.4#



#36  
 1,1-Dichloropropene  
 Concen: 5.295 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW004345.D  
 Acq: 30 Jul 2018 06:44

Tgt Ion: 75 Resp: 1447  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 17.3 52.0#  
 77 0.0 25.0 37.6#





#37

Ethyl Acetate

Concen: 15.358 ug/l

RT: 7.19 min Scan# 919

Delta R.T. -0.07 min

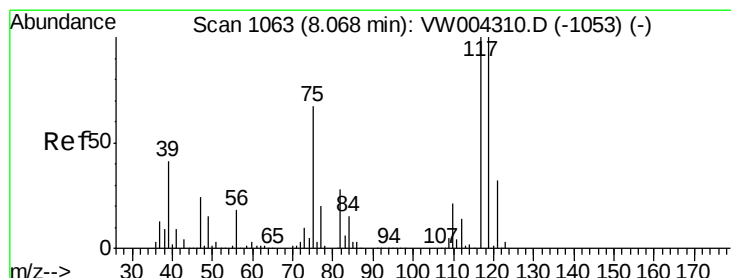
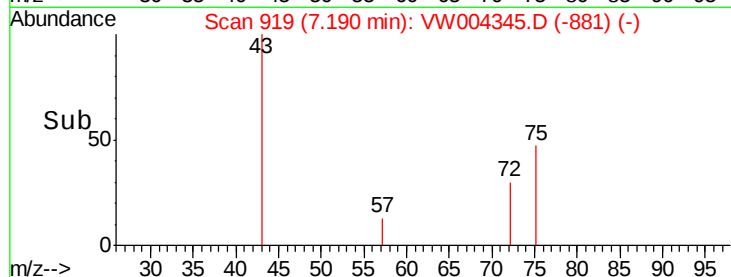
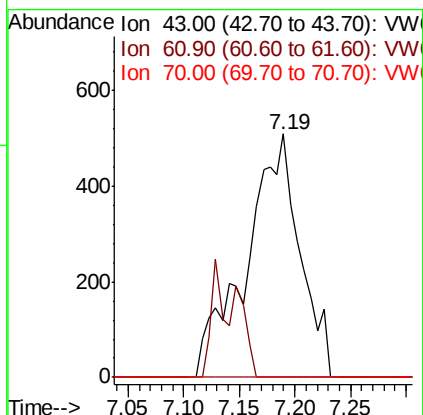
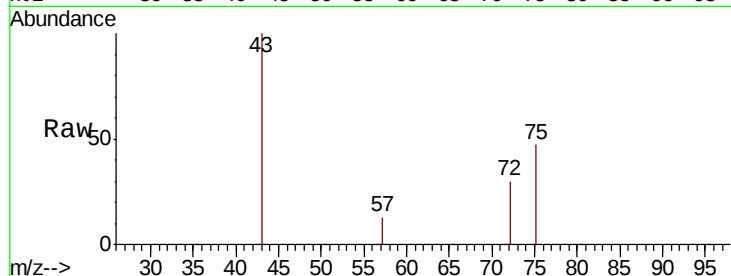
Lab File: VW004345.D

Acq: 30 Jul 2018 06:44

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 1720

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 0.0   | 11.1  | 16.7# |
| 70  | 0.0   | 7.8   | 11.6# |



#38

Carbon Tetrachloride

Concen: 7.789 ug/l

RT: 7.95 min Scan# 1043

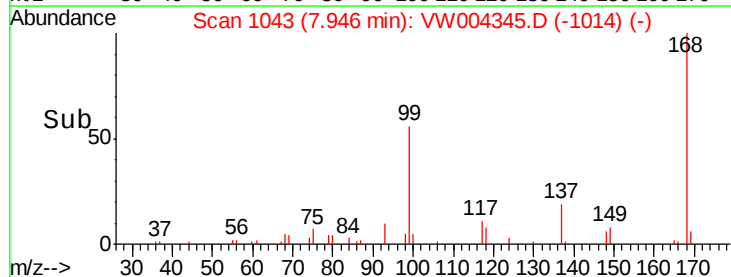
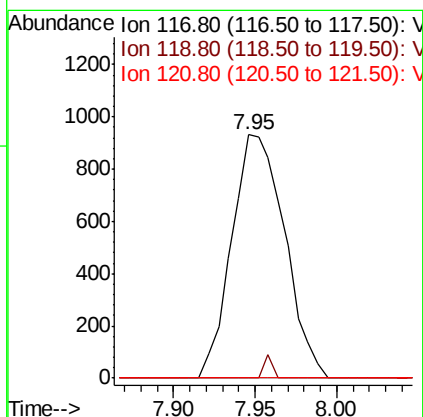
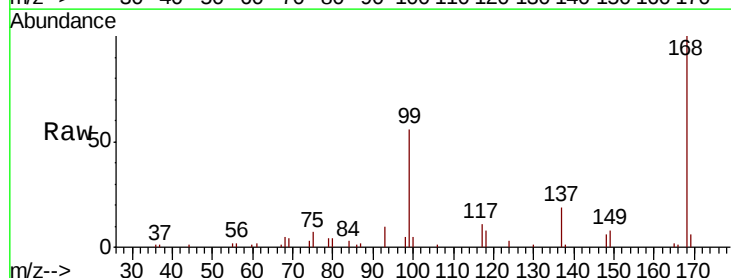
Delta R.T. -0.12 min

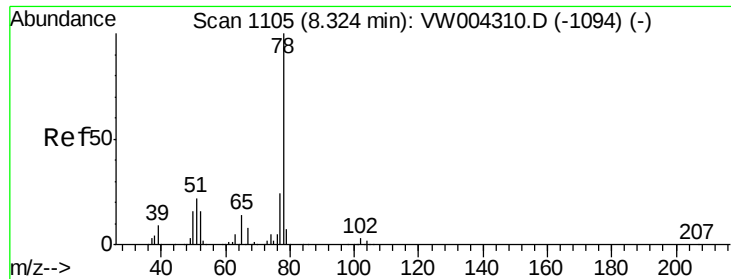
Lab File: VW004345.D

Acq: 30 Jul 2018 06:44

Tgt Ion: 117 Resp: 2102

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 117 | 100   |       |        |
| 119 | 0.0   | 79.7  | 119.5# |
| 121 | 0.0   | 25.7  | 38.5#  |





#40

Benzene

Concen: 1.881 ug/l

RT: 8.34 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VW004345.D

Acq: 30 Jul 2018 06:44

Instrument :

MSVOA\_W

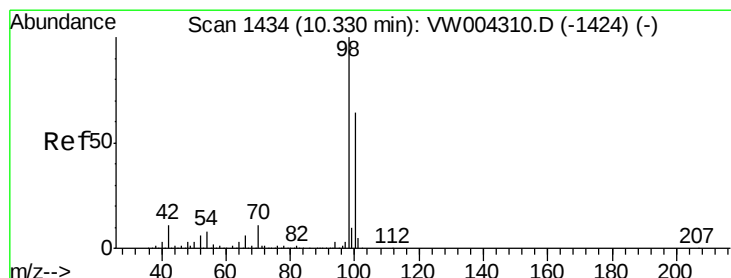
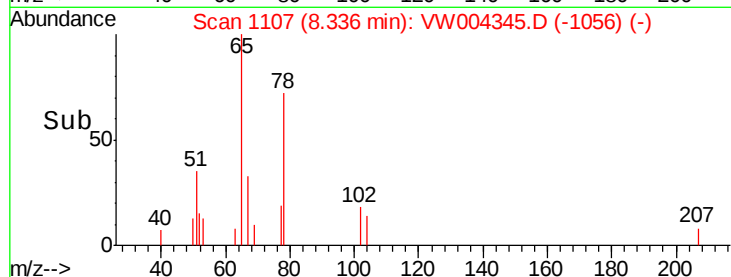
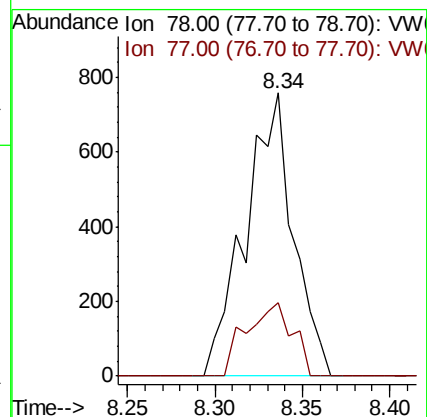
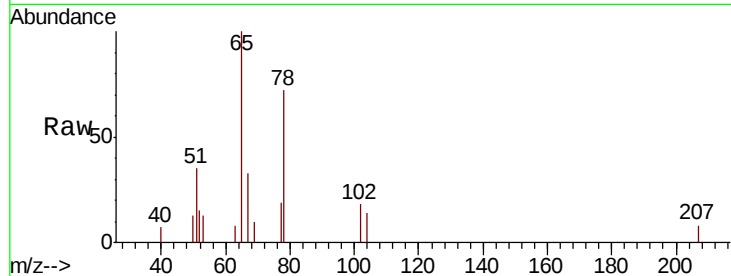
ClientSampleId :

Tot Ion: 78 Resp: 1446

Ion Ratio Lower Upper

78 100

77 25.7 19.4 29.0



#50

Toluene-d8

Concen: 42.541 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004345.D

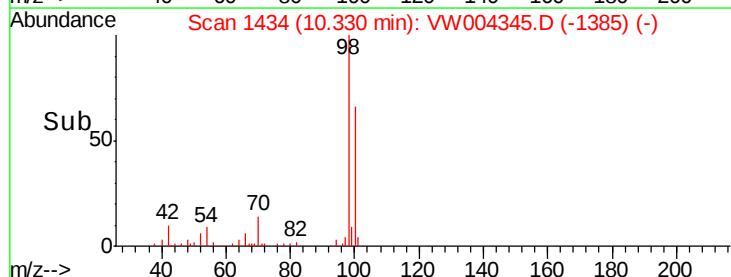
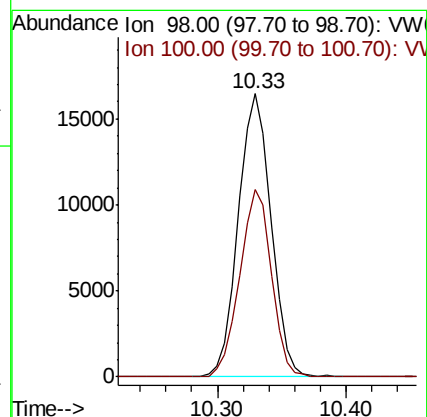
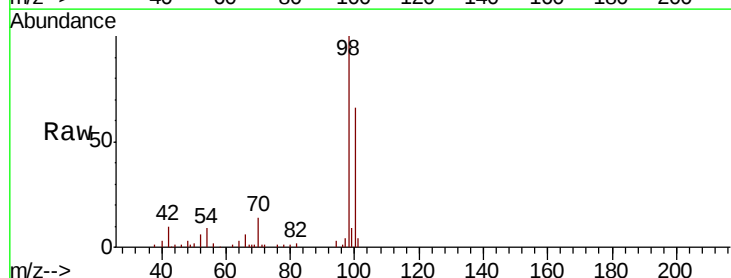
Acq: 30 Jul 2018 06:44

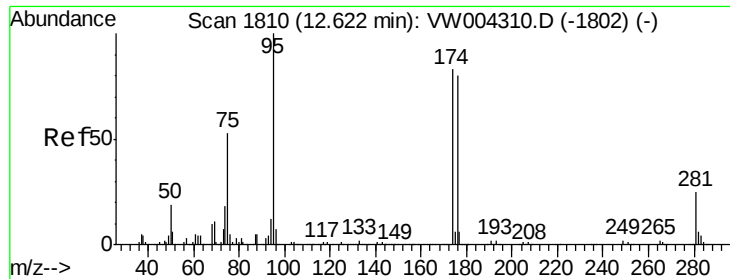
Tgt Ion: 98 Resp: 29026

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3

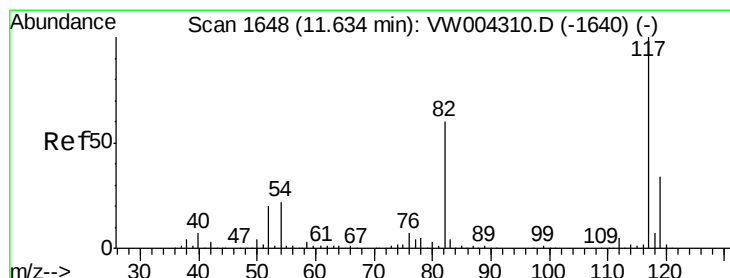
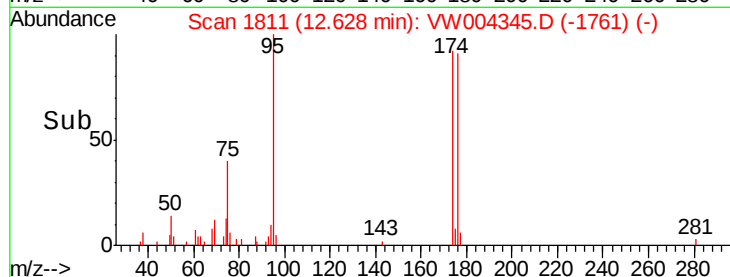
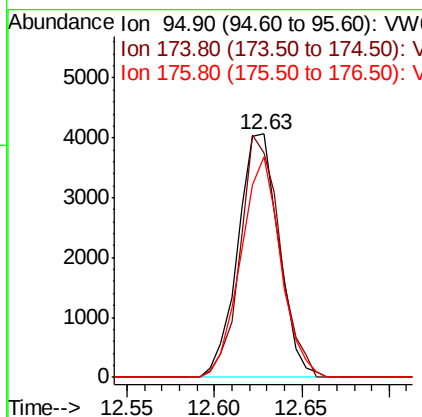
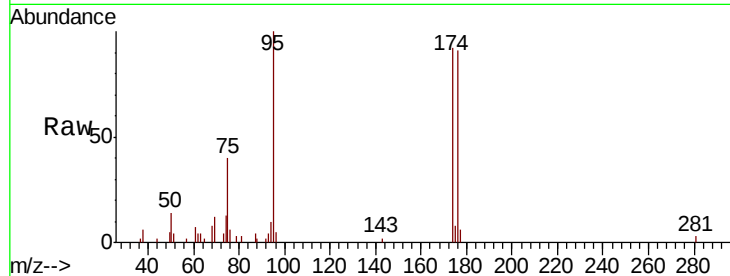




#62  
4-Bromofluorobenzene  
Concen: 27.618 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. 0.01 min  
Lab File: VW004345.D  
Acq: 30 Jul 2018 06:44

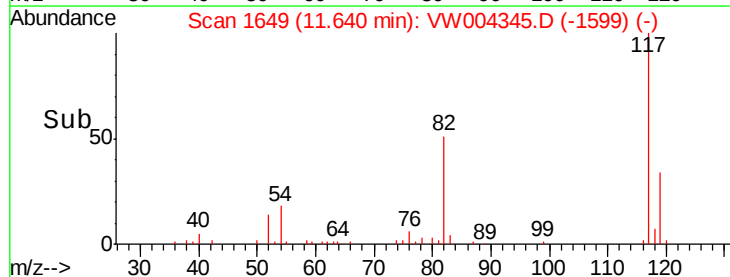
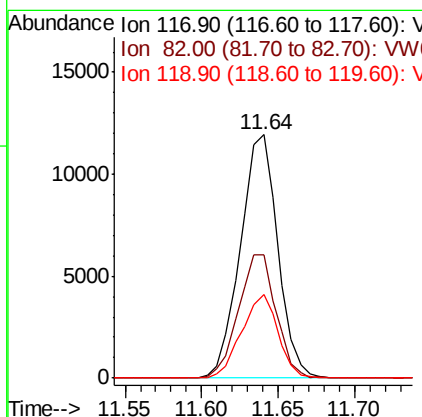
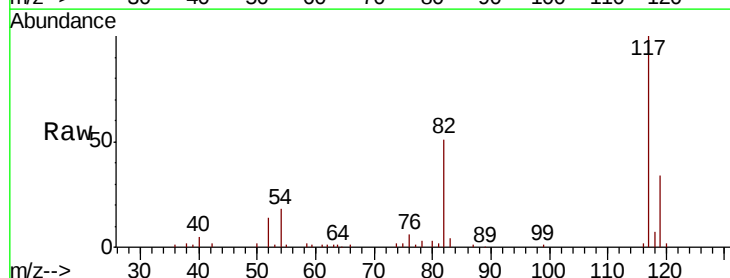
Instrument :  
MSVOA\_W  
ClientSampled :

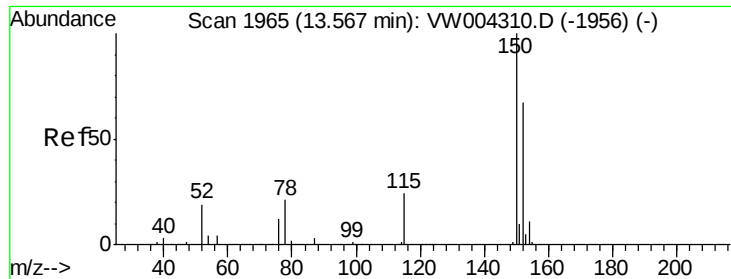
Tot Ion: 95 Resp: 6635  
Ion Ratio Lower Upper  
95 100  
174 95.4 0.0 167.8  
176 87.8 0.0 162.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. 0.01 min  
Lab File: VW004345.D  
Acq: 30 Jul 2018 06:44

Tgt Ion: 117 Resp: 20257  
Ion Ratio Lower Upper  
117 100  
82 50.7 47.9 71.9  
119 34.2 27.1 40.7



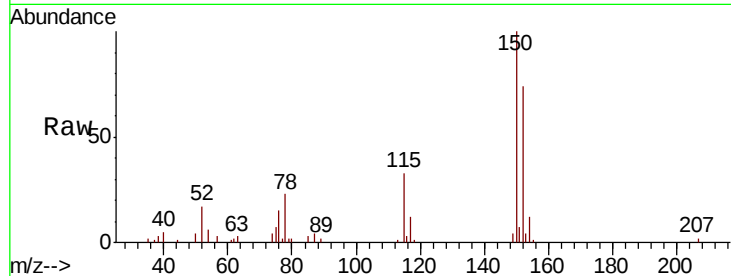


#72

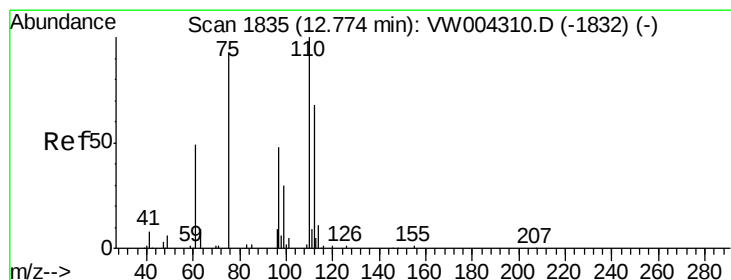
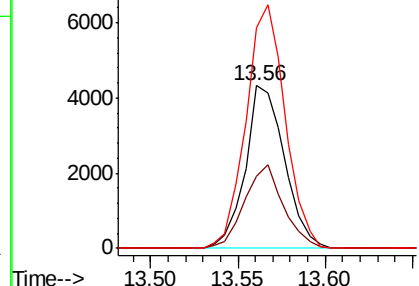
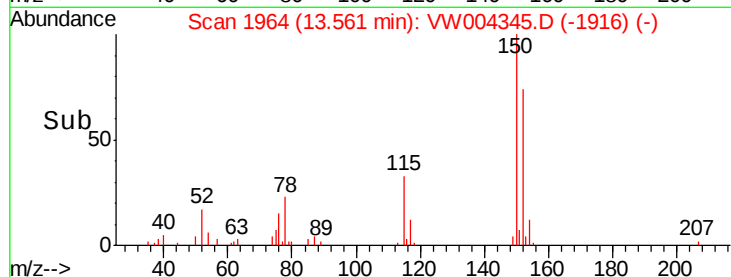
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1964  
Delta R.T. -0.01 min  
Lab File: VW004345.D  
Acq: 30 Jul 2018 06:44

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:152 Resp: 6767  
Ion Ratio Lower Upper  
152 100  
115 51.1 28.8 86.4  
150 149.3 0.0 346.4



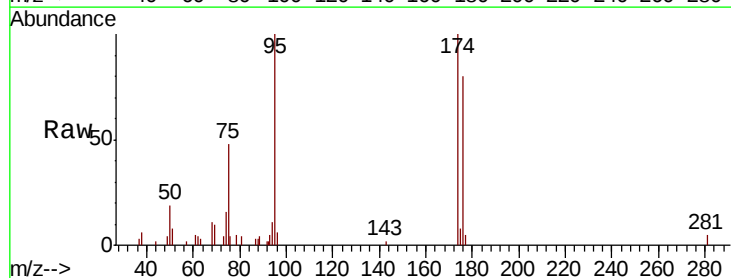
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



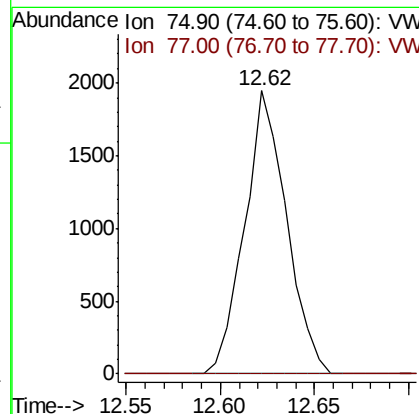
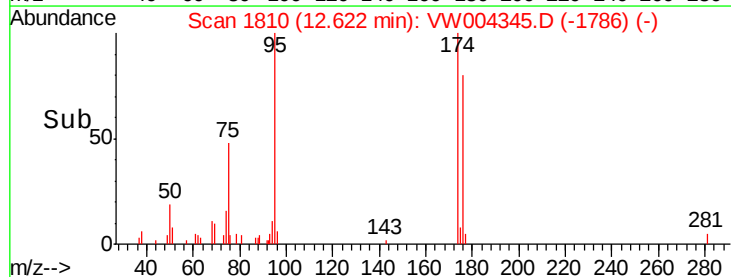
#76

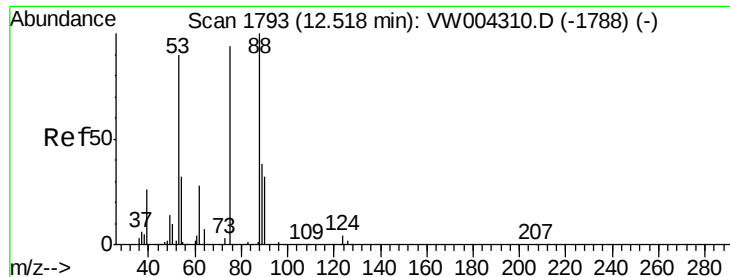
1,2,3-Trichloropropane  
Concen: 48.576 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.15 min  
Lab File: VW004345.D  
Acq: 30 Jul 2018 06:44

Tgt Ion: 75 Resp: 3000  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



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

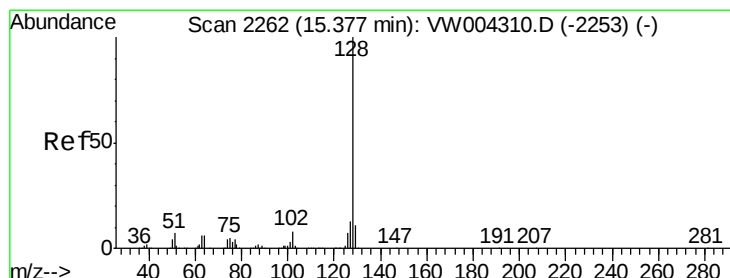
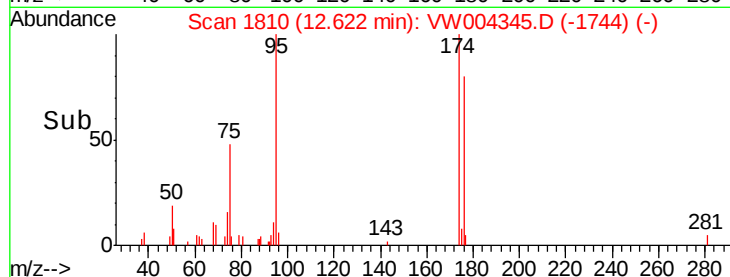
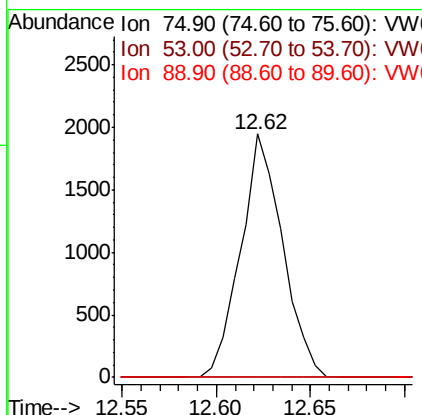
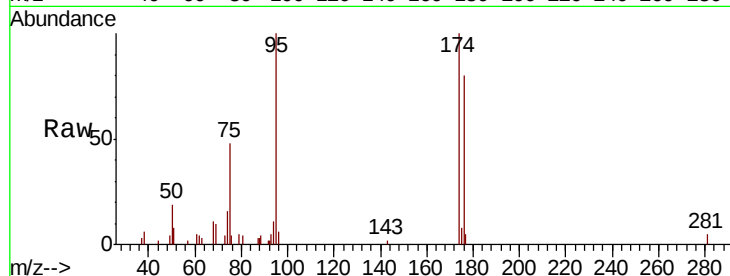




#81  
trans-1,4-Dichloro-2-butene  
Concen: 113.030 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.10 min  
Lab File: VW004345.D  
Acq: 30 Jul 2018 06:44

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 75 Resp: 3000  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.6 116.4#  
89 0.0 36.0 54.0#



#95  
Naphthalene  
Concen: 20.882 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW004345.D  
Acq: 30 Jul 2018 06:44

Tgt Ion: 128 Resp: 5124  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.4 15.6  
129 11.5 8.6 13.0

