

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW101618\  
 Data File : VW006090.D  
 Acq On : 16 Oct 2018 20:10  
 Operator : VA/AP  
 Sample : J5526-18  
 Misc : 6.84G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-4A-G-101518-3

Quant Time: Oct 17 01:22:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 16 05:36:33 2018  
 Response via : Initial Calibration

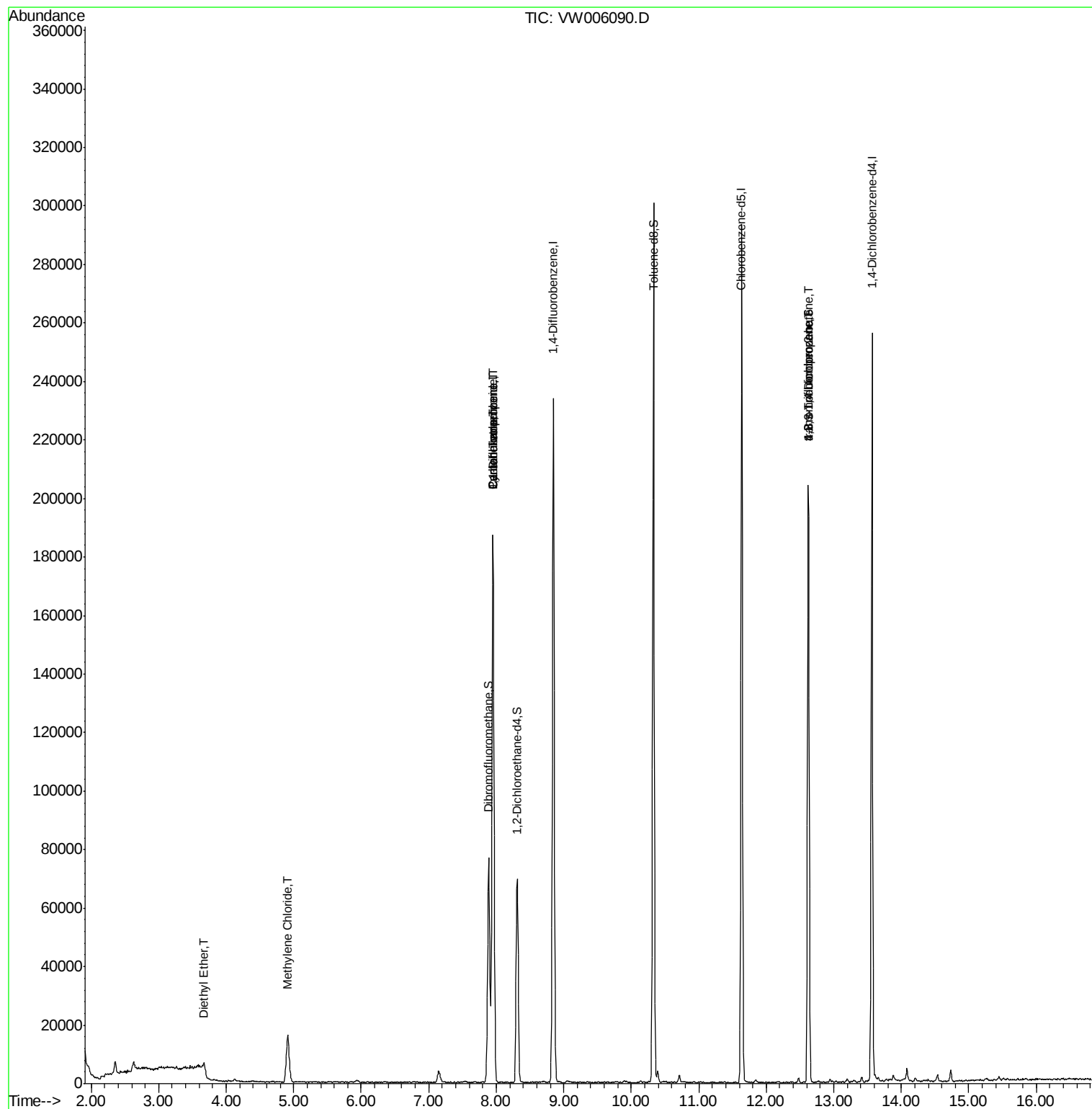
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 150337   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.85  | 114  | 208819   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 166764   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.57 | 152  | 70632    | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 8.31  | 65   | 54462    | 43.70     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 87.40% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 54605    | 44.25     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 88.50% |          |
| 50) Toluene-d8                 | 10.33 | 98   | 202051   | 43.04     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 86.08% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 62196    | 35.28     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 70.56% |          |
| Target Compounds               |       |      |          |           |        |          |
| 8) Diethyl Ether               | 3.67  | 74   | 910      | 1.344     | ug/l   | 58       |
| 16) Acetone                    | 4.12  | 43   | 1521     | Below Cal | #      | 16       |
| 20) Methylene Chloride         | 4.91  | 84   | 12352    | 7.999     | ug/l   | 93       |
| 31) Cyclohexane                | 7.95  | 56   | 2894     | 1.269     | ug/l # | 12       |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 9687     | 5.033     | ug/l # | 48       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 13411    | 6.356     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 31899    | 59.128    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 31899    | 141.340   | ug/l # | 10       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW101618\  
Data File : VW006090.D  
Acq On : 16 Oct 2018 20:10  
Operator : VA/AP  
Sample : J5526-18  
Misc : 6.84G/5ML/MSVOA\_W/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-4A-G-101518-3

Quant Time: Oct 17 01:22:21 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 16 05:36:33 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: VW006090.D

Acq: 16 Oct 2018 20:10

Instrument :

MSVOA\_W

ClientSampleId :

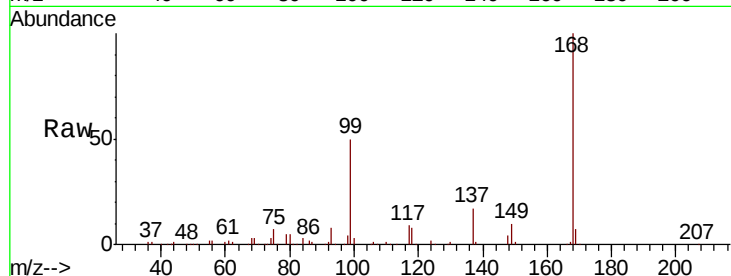
SUP-4A-G-101518-3

Tgt Ion:168 Resp: 150337

Ion Ratio Lower Upper

168 100

99 50.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

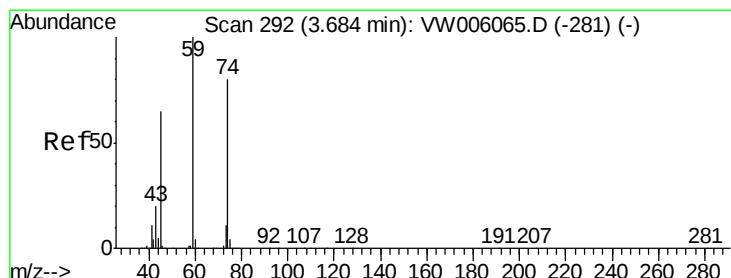
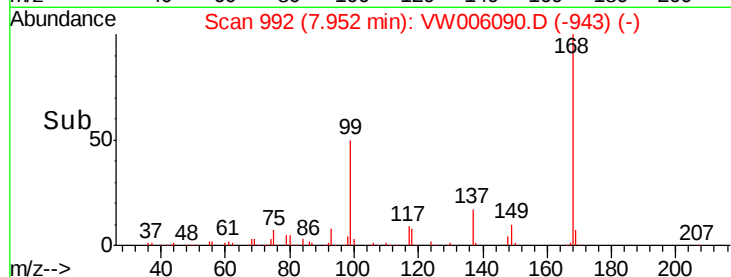
40000

20000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 1.344 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW006090.D

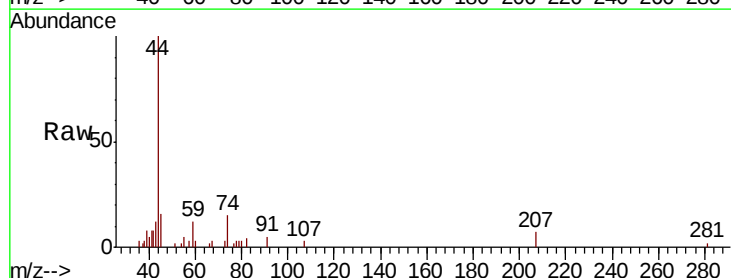
Acq: 16 Oct 2018 20:10

Tgt Ion: 74 Resp: 910

Ion Ratio Lower Upper

74 100

45 124.0 42.8 128.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

500

400

300

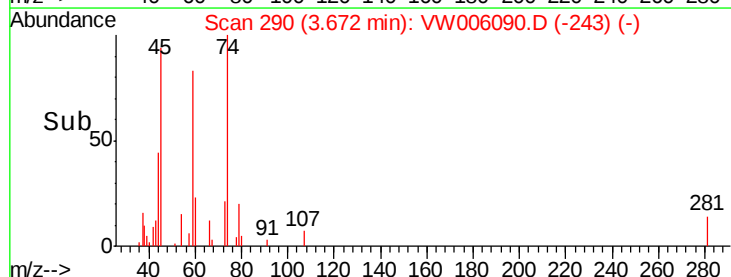
200

100

0

3.60 3.65 3.70 3.75

Time-->

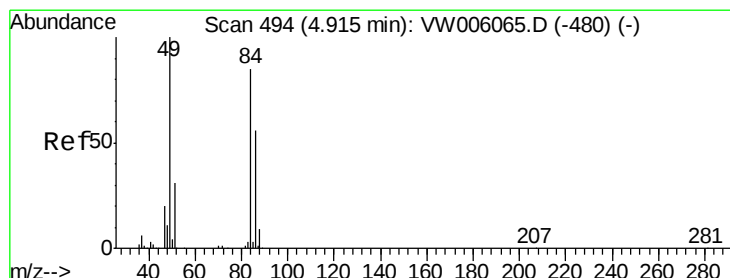
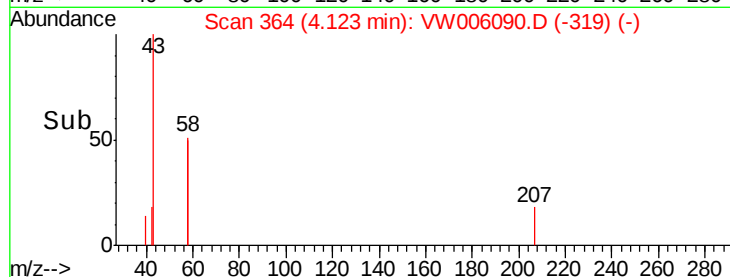
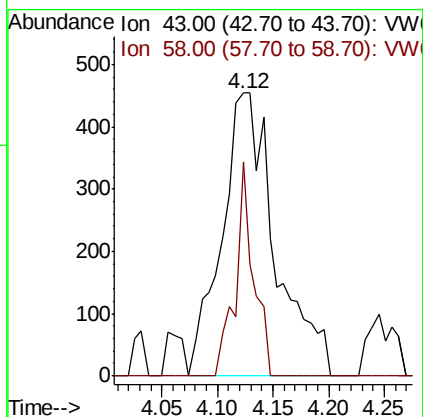
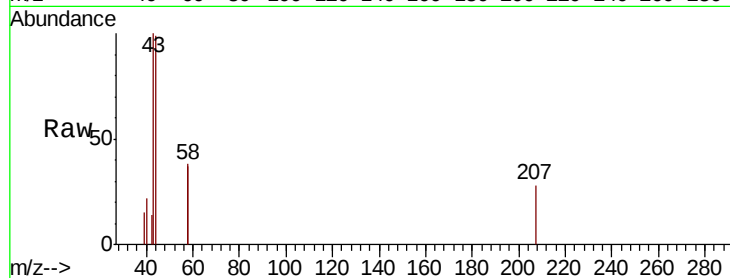




#16  
Acetone  
Concen: Below Cal  
RT: 4.12 min Scan# 364  
Delta R.T. -0.02 min  
Lab File: VW006090.D  
Acq: 16 Oct 2018 20:10

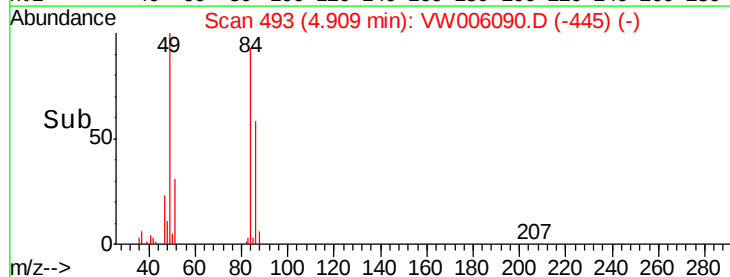
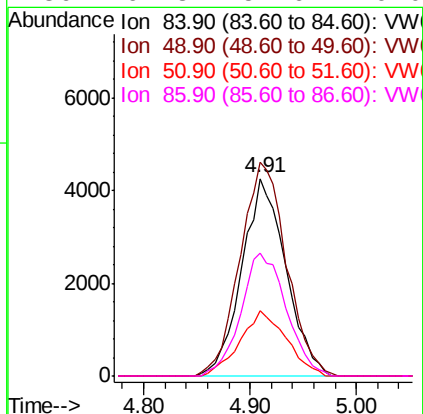
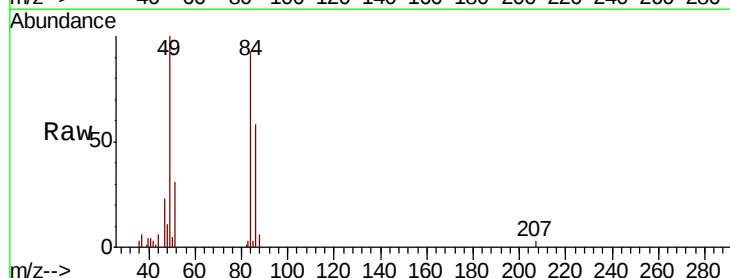
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-4A-G-101518-3

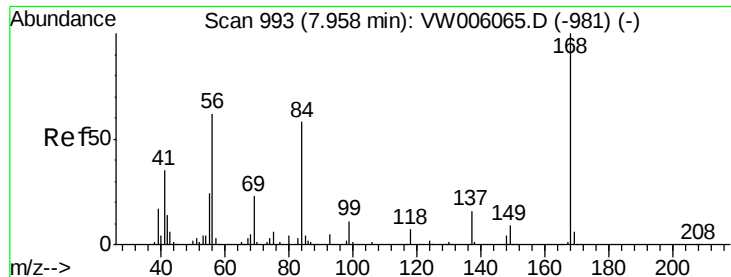
Tgt Ion: 43 Resp: 1521  
Ion Ratio Lower Upper  
43 100  
58 75.6 24.0 36.0#



#20  
Methylene Chloride  
Concen: 7.999 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW006090.D  
Acq: 16 Oct 2018 20:10

Tgt Ion: 84 Resp: 12352  
Ion Ratio Lower Upper  
84 100  
49 108.0 93.6 140.4  
51 33.1 29.0 43.4  
86 62.3 52.6 79.0

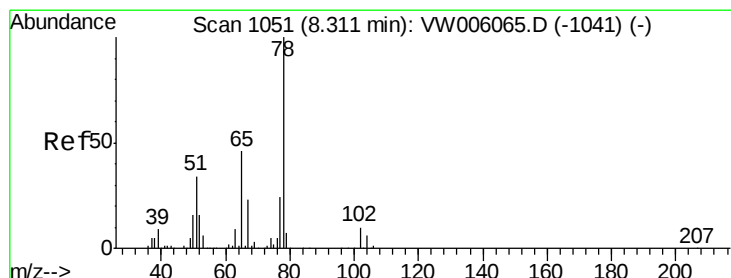
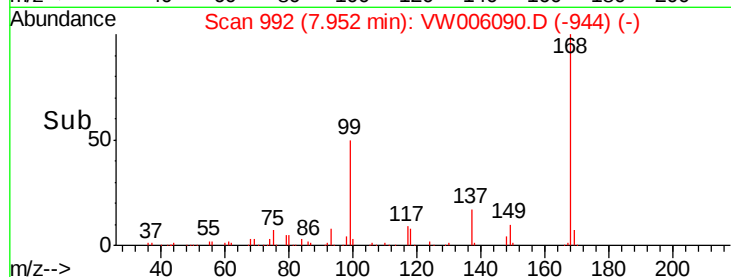
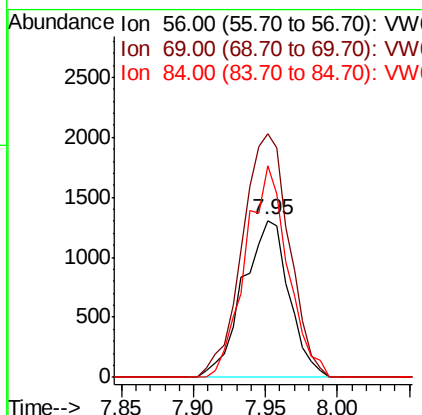
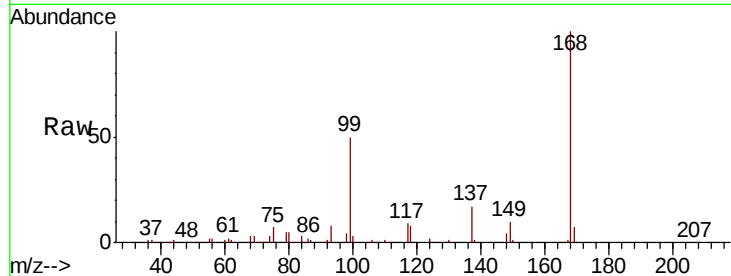




#31  
Cyclohexane  
Concen: 1.269 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW006090.D  
Acq: 16 Oct 2018 20:10

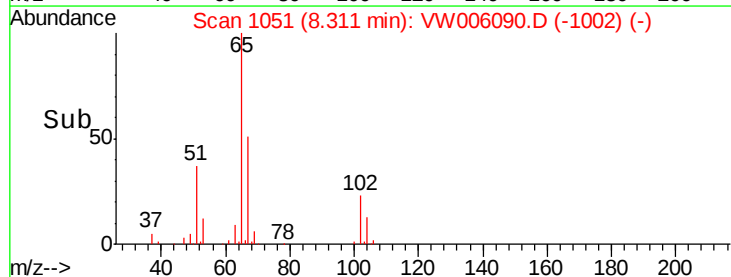
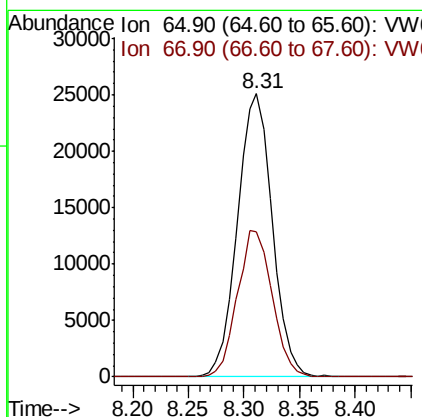
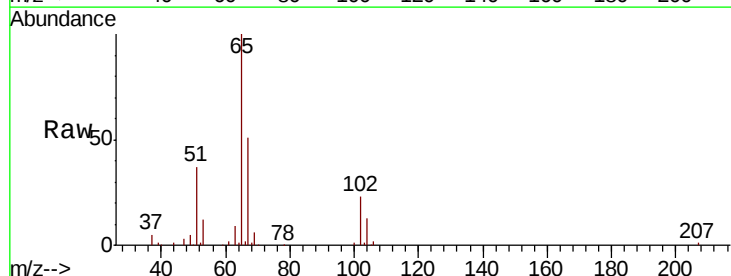
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-4A-G-101518-3

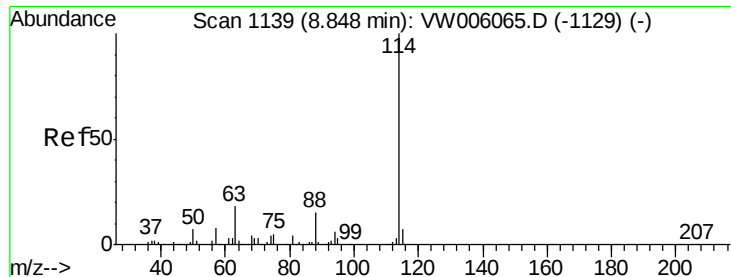
Tgt Ion: 56 Resp: 2894  
Ion Ratio Lower Upper  
56 100  
69 155.0 29.4 44.0#  
84 134.8 74.0 111.0#



#33  
1,2-Dichloroethane-d4  
Concen: 43.696 ug/l  
RT: 8.31 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VW006090.D  
Acq: 16 Oct 2018 20:10

Tgt Ion: 65 Resp: 54462  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 101.0

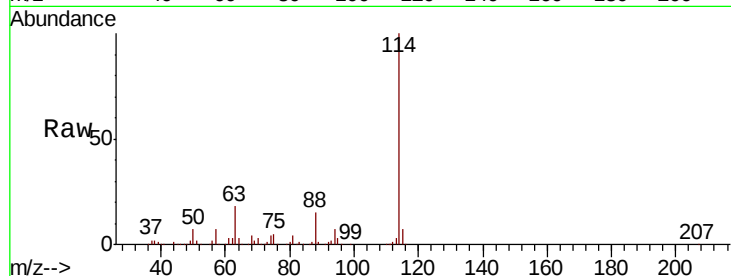




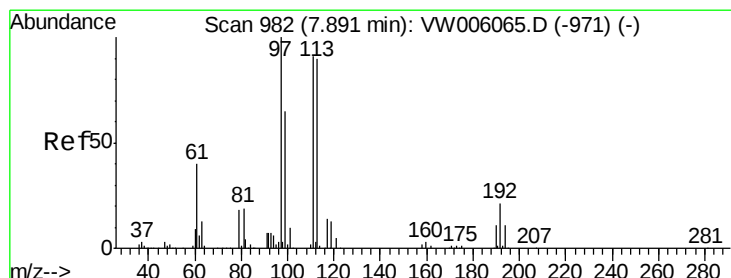
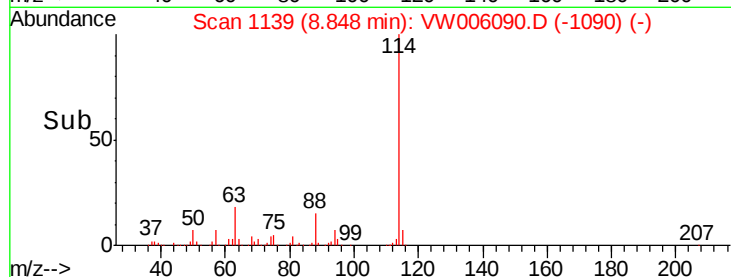
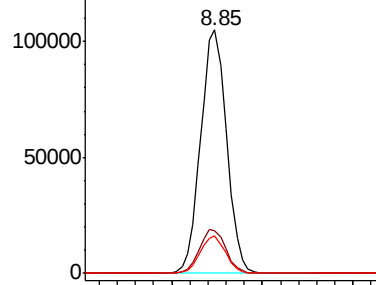
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006090.D  
 Acq: 16 Oct 2018 20:10

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-4A-G-101518-3

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 208819 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 17.7  | 0.0   | 36.8   |
| 88       | 15.5  | 0.0   | 29.0   |

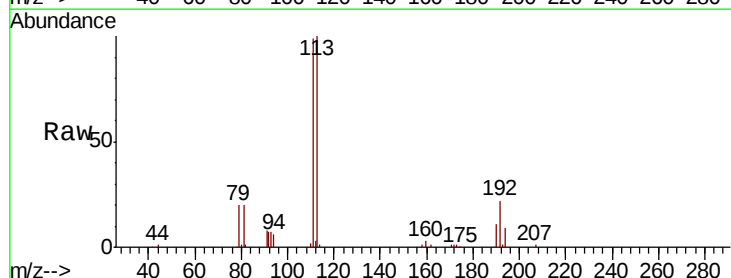


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

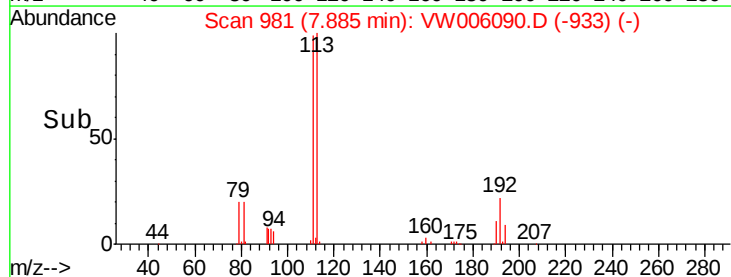
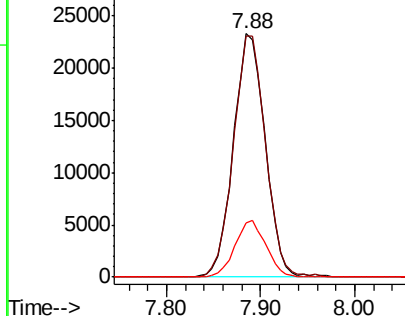


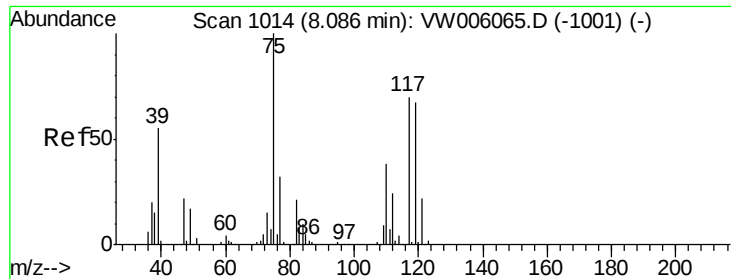
#35  
 Dibromofluoromethane  
 Concen: 44.254 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW006090.D  
 Acq: 16 Oct 2018 20:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 54605 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 100.0 | 81.4  | 122.0 |
| 192      | 22.7  | 18.7  | 28.1  |



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

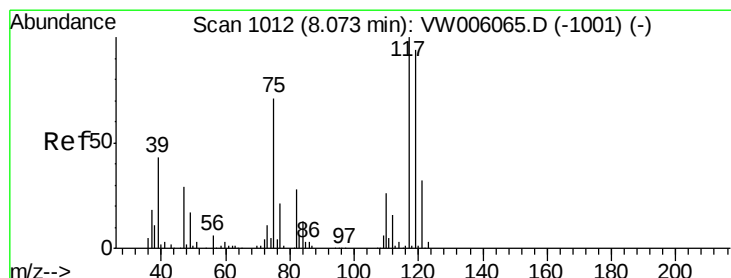
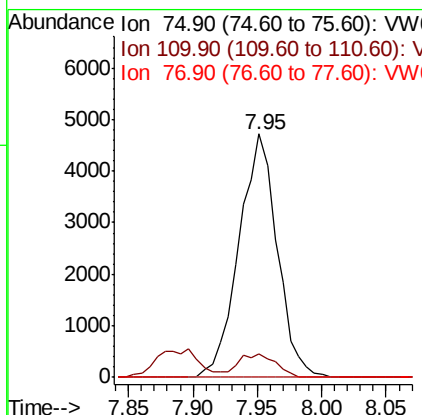
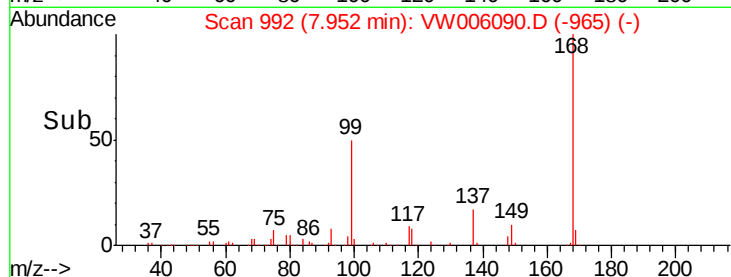
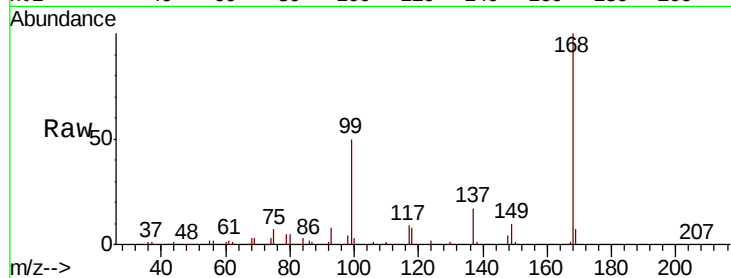




#36  
 1,1-Dichloropropene  
 Concen: 5.033 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW006090.D  
 Acq: 16 Oct 2018 20:10

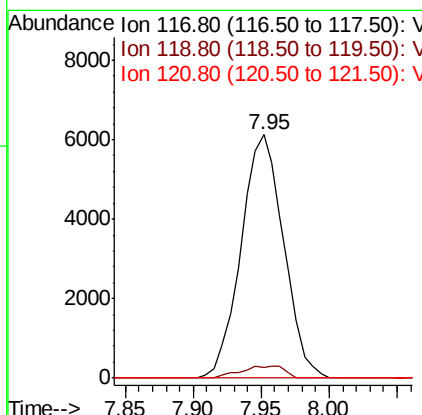
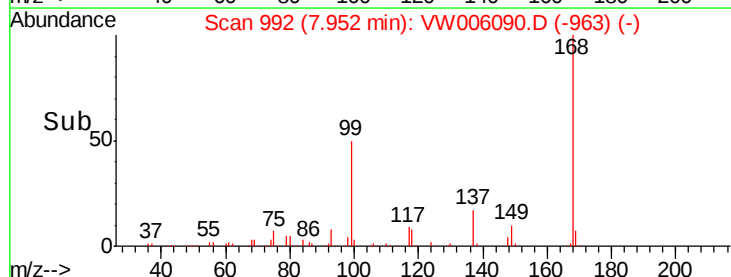
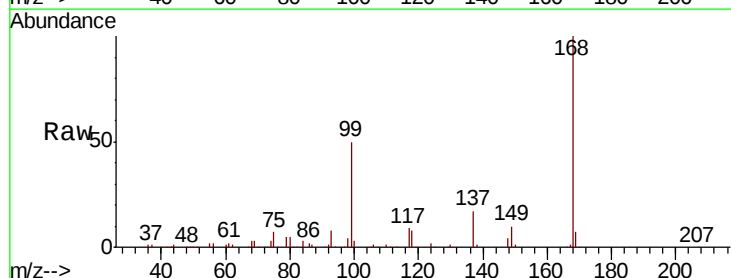
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-4A-G-101518-3

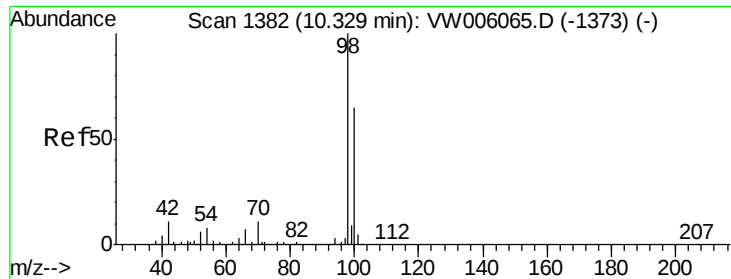
Tgt Ion: 75 Resp: 9687  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 19.1 57.1#  
 77 0.0 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 6.356 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW006090.D  
 Acq: 16 Oct 2018 20:10

Tgt Ion: 117 Resp: 13411  
 Ion Ratio Lower Upper  
 117 100  
 119 4.1 75.2 112.8#  
 121 0.0 25.3 37.9#





#50

Toluene-d8

Concen: 43.041 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006090.D

Acq: 16 Oct 2018 20:10

Instrument :

MSVOA\_W

ClientSampleId :

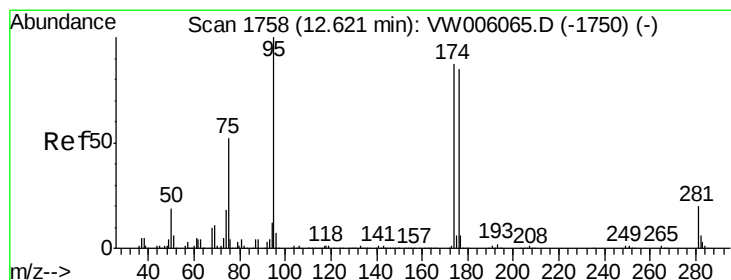
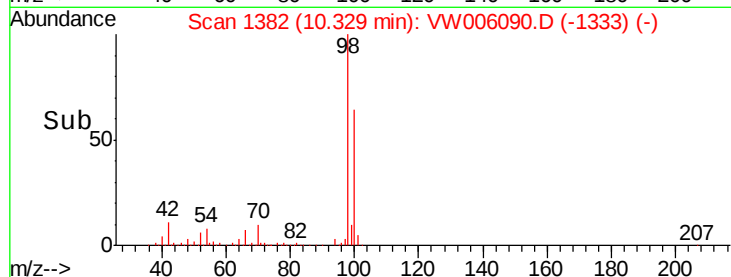
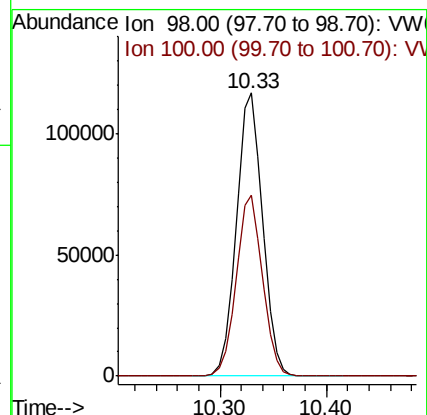
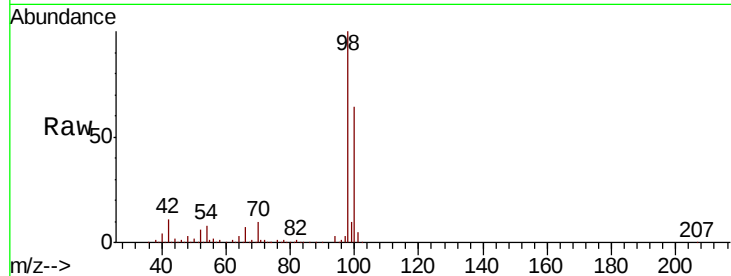
SUP-4A-G-101518-3

Tgt Ion: 98 Resp: 202051

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 35.275 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW006090.D

Acq: 16 Oct 2018 20:10

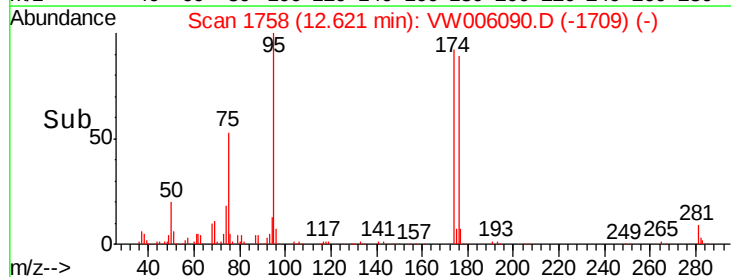
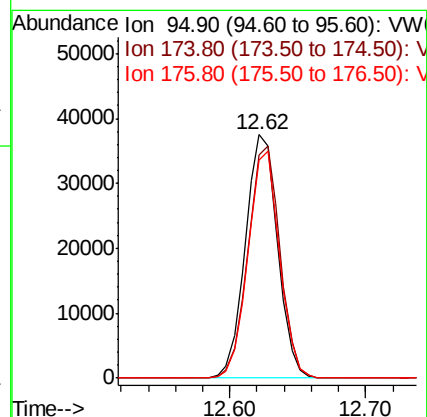
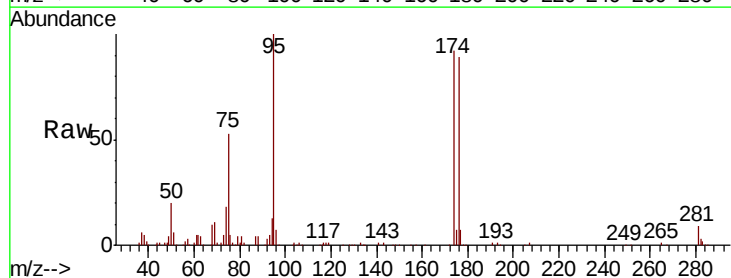
Tgt Ion: 95 Resp: 62196

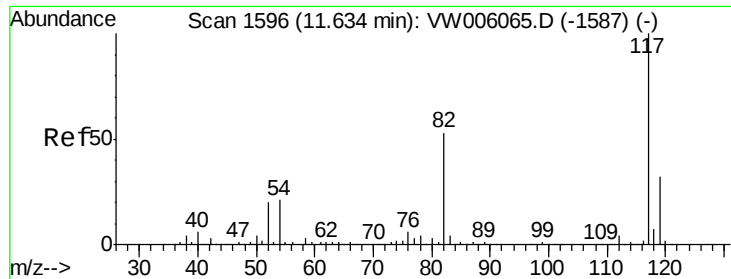
Ion Ratio Lower Upper

95 100

174 94.8 0.0 186.0

176 91.4 0.0 181.6

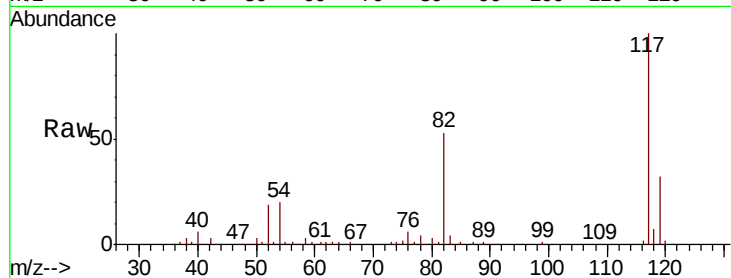




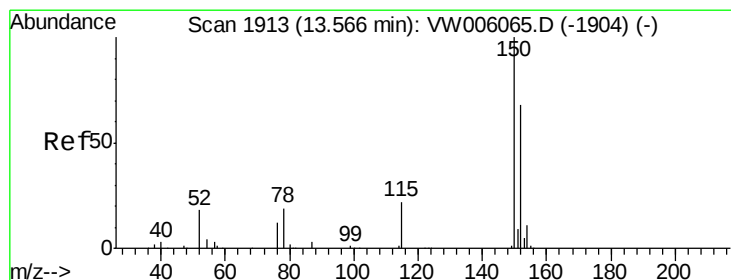
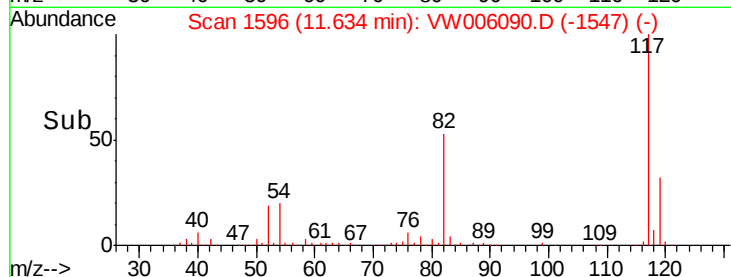
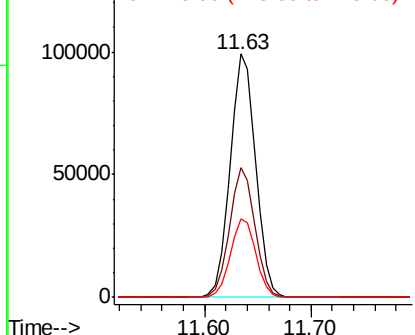
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006090.D  
Acq: 16 Oct 2018 20:10

Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-4A-G-101518-3

Tgt Ion:117 Resp: 166764  
Ion Ratio Lower Upper  
117 100  
82 53.4 42.1 63.1  
119 32.0 25.8 38.6

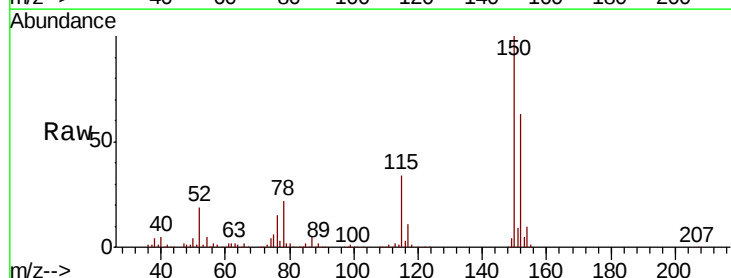


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

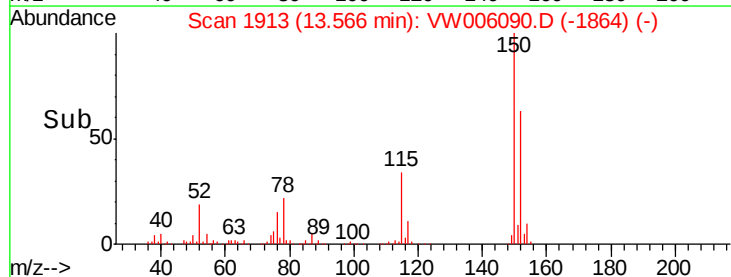
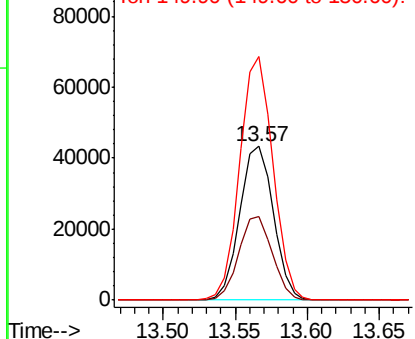


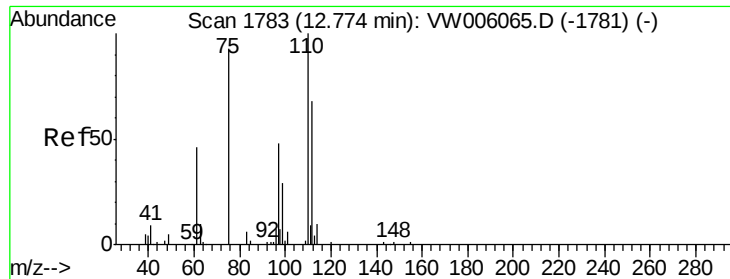
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. 0.00 min  
Lab File: VW006090.D  
Acq: 16 Oct 2018 20:10

Tgt Ion:152 Resp: 70632  
Ion Ratio Lower Upper  
152 100  
115 54.0 27.8 83.3  
150 155.2 0.0 349.2



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: 59.128 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006090.D

Acq: 16 Oct 2018 20:10

Instrument :

MSVOA\_W

ClientSampleId :

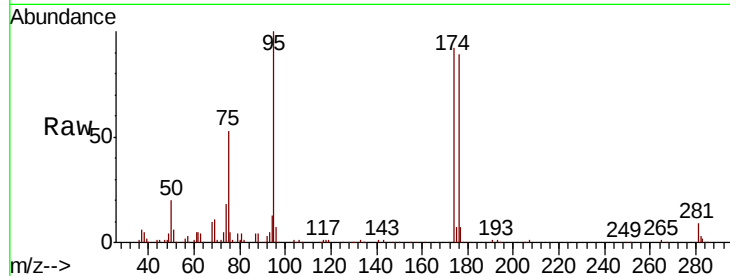
SUP-4A-G-101518-3

Tgt Ion: 75 Resp: 31899

Ion Ratio Lower Upper

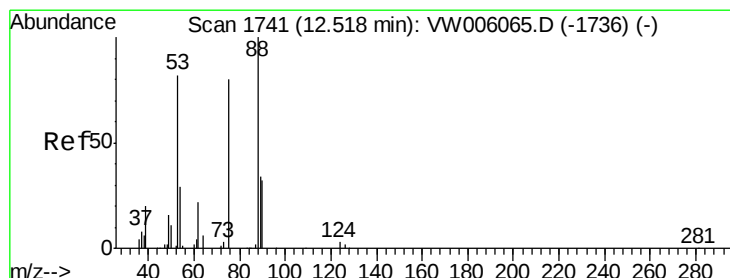
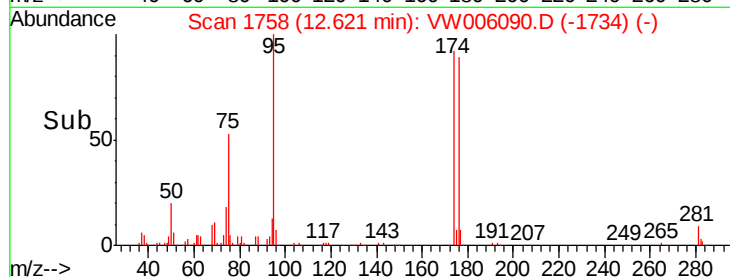
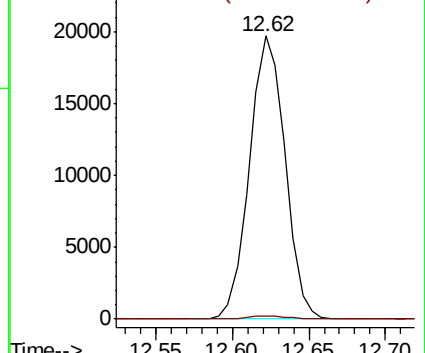
75 100

77 1.2 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: 141.340 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006090.D

Acq: 16 Oct 2018 20:10

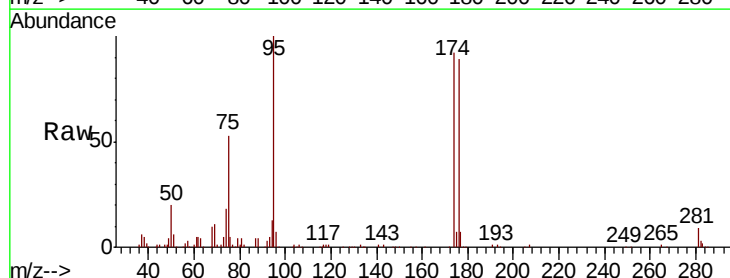
Tgt Ion: 75 Resp: 31899

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 37.5 56.3#



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

