

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070918\  
 Data File : VW003815.D  
 Acq On : 10 Jul 2018 09:20  
 Operator : SY/AP  
 Sample : J3880-18  
 Misc : 5.07G/5ML/MSVOA W/SOIL  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SURCHARGE-SP-19

Quant Time: Jul 10 10:47:34 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 05:07:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 102629   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 170909   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 132262   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 40191    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |       |        |      |
|---------------------------|-------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31  | 65  | 65172    | 48.56 | ug/l   | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 97.12% |      |
| 35) Dibromofluoromethane  | 7.88  | 113 | 56837    | 47.52 | ug/l   | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 95.04% |      |
| 50) Toluene-d8            | 10.33 | 98  | 155521   | 33.99 | ug/l   | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 67.98% |      |
| 62) 4-Bromofluorobenzene  | 12.62 | 95  | 38362    | 23.17 | ug/l   | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 46.34% |      |

## Target Compounds

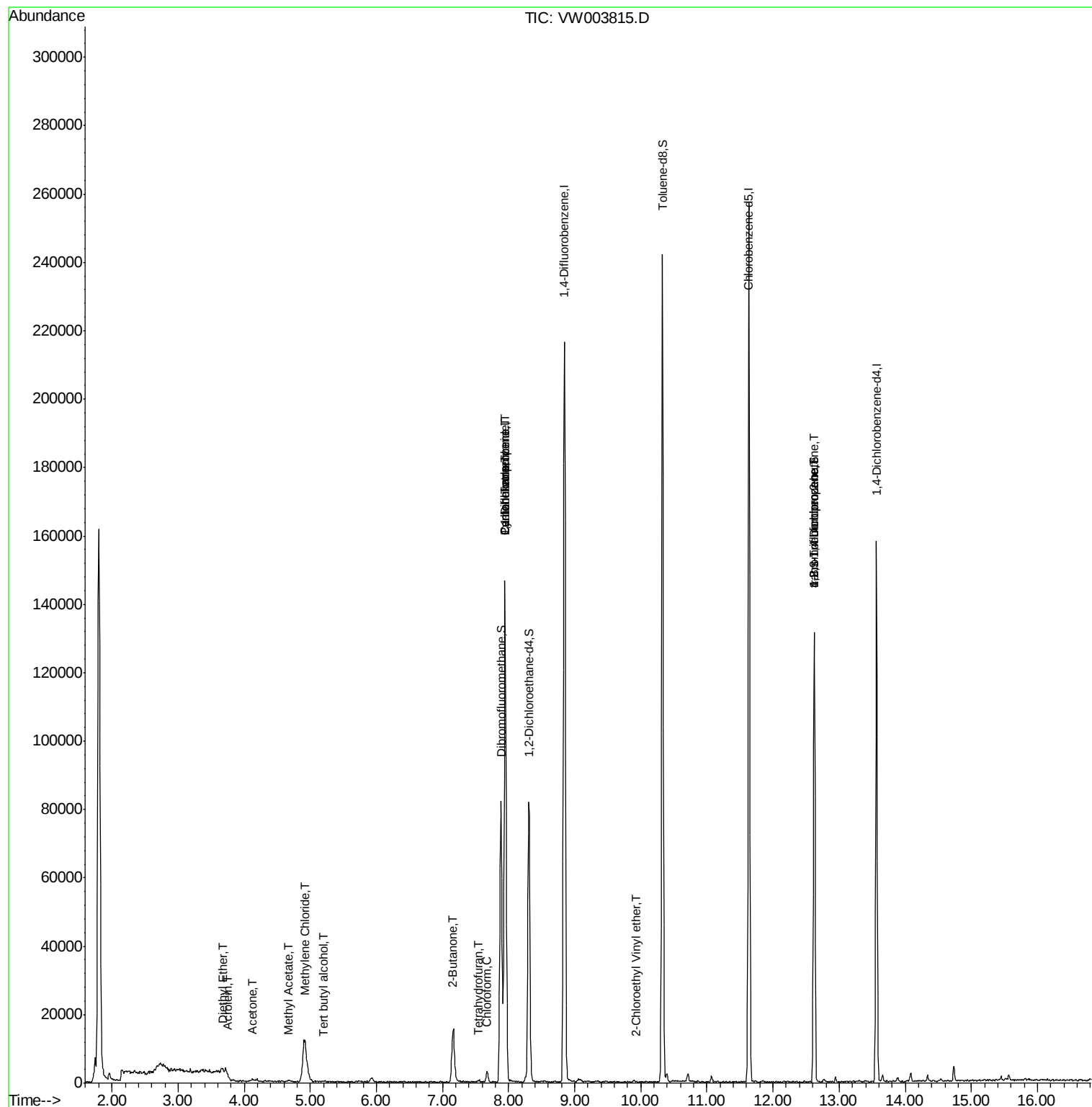
|                                |       |     |       |         | Qvalue |     |
|--------------------------------|-------|-----|-------|---------|--------|-----|
| 8) Diethyl Ether               | 3.67  | 74  | 640   | 1.237   | ug/l   | 97  |
| 11) Tert butyl alcohol         | 5.21  | 59  | 212   | 2.915   | ug/l # | 70  |
| 13) Acrolein                   | 3.76  | 56  | 19    | 4.897   | ug/l # | 28  |
| 16) Acetone                    | 4.12  | 43  | 549   | 2.358   | ug/l # | 81  |
| 18) Methyl Acetate             | 4.68  | 43  | 1036  | 1.578   | ug/l # | 66  |
| 20) Methylene Chloride         | 4.92  | 84  | 12347 | 7.120   | ug/l   | 90  |
| 25) 2-Butanone                 | 7.15  | 43  | 1025  | 2.810   | ug/l # | 82  |
| 29) Tetrahydrofuran            | 7.54  | 42  | 250   | 1.066   | ug/l # | 51  |
| 30) Chloroform                 | 7.67  | 83  | 2590  | 1.139   | ug/l   | 93  |
| 31) Cyclohexane                | 7.95  | 56  | 2807  | 1.433   | ug/l # | 31  |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 9224  | 5.087   | ug/l # | 50  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 10475 | 6.075   | ug/l # | 16  |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63  | 29    | 13.211  | ug/l # | 49  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 21318 | 54.015  | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 21318 | 132.133 | ug/l # | 8   |

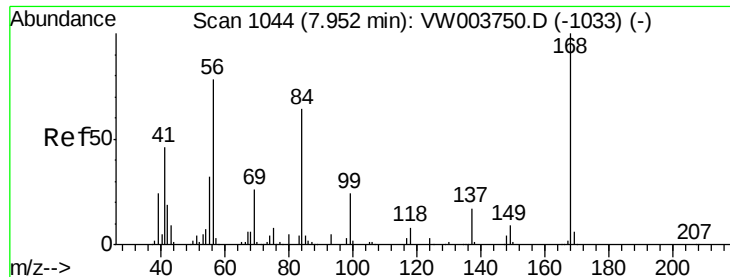
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW070918\  
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ALS Vial : 53 Sample Multiplier: 1

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MSVOA\_W  
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Quant Time: Jul 10 10:47:34 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 07 05:07:25 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: VW003815.D

Acq: 10 Jul 2018 09:20

Instrument :

MSVOA\_W

ClientSampleId :

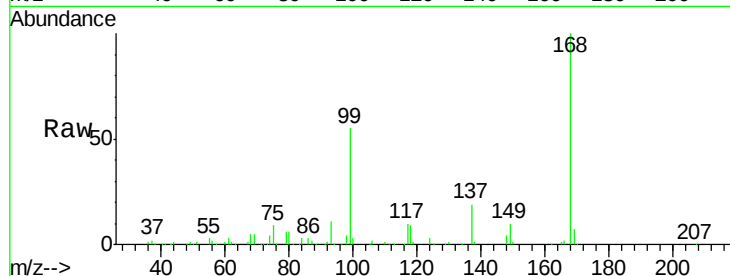
SURCHARGE-SP-19

Tot Ion:168 Resp: 102629

Ion Ratio Lower Upper

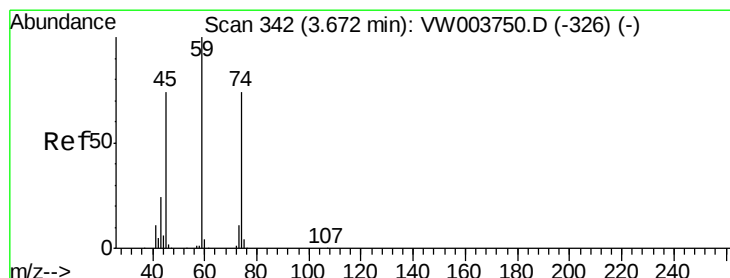
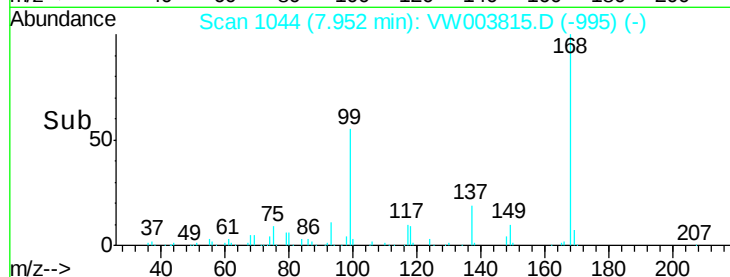
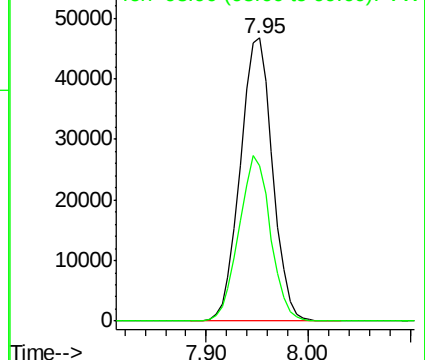
168 100

99 54.9 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.237 ug/l

RT: 3.67 min Scan# 342

Delta R.T. -0.00 min

Lab File: VW003815.D

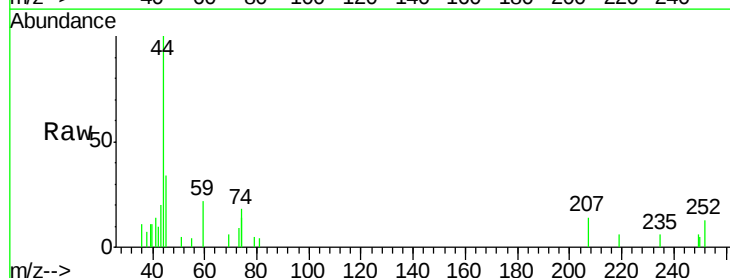
Acq: 10 Jul 2018 09:20

Tgt Ion: 74 Resp: 640

Ion Ratio Lower Upper

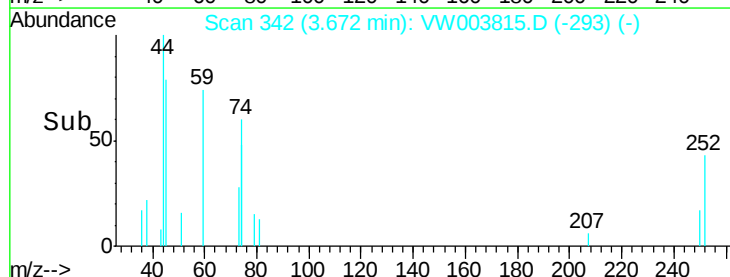
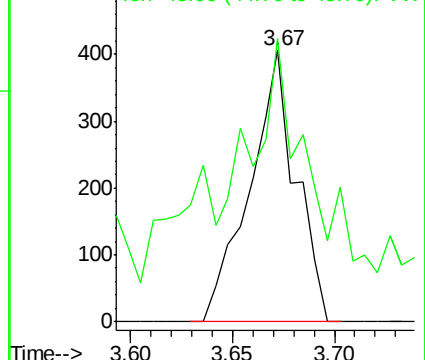
74 100

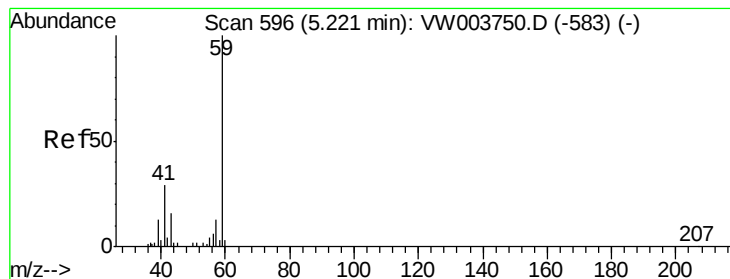
45 102.2 52.4 157.2



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



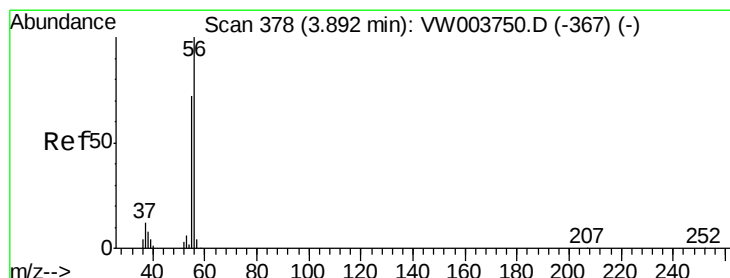
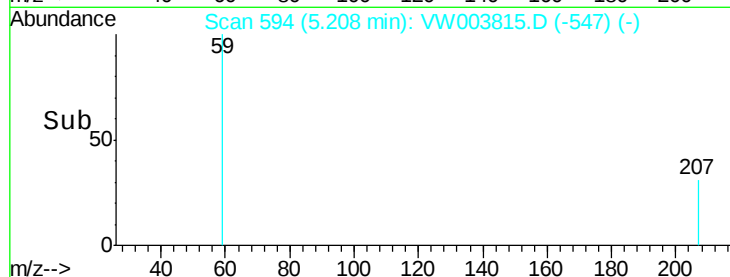
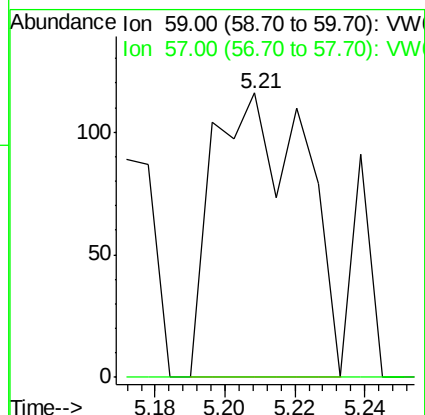
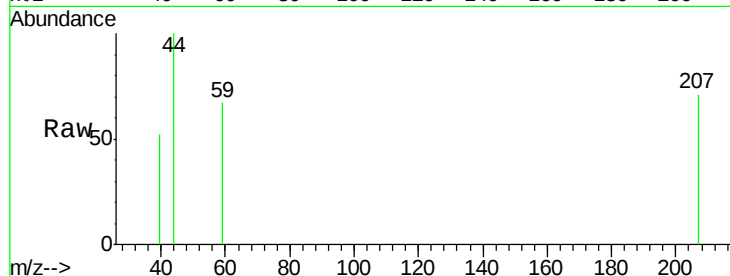


#11

Tert butyl alcohol  
 Concen: 2.915 ug/l  
 RT: 5.21 min Scan# 594  
 Delta R.T. -0.01 min  
 Lab File: VW003815.D  
 Acq: 10 Jul 2018 09:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SURCHARGE-SP-19

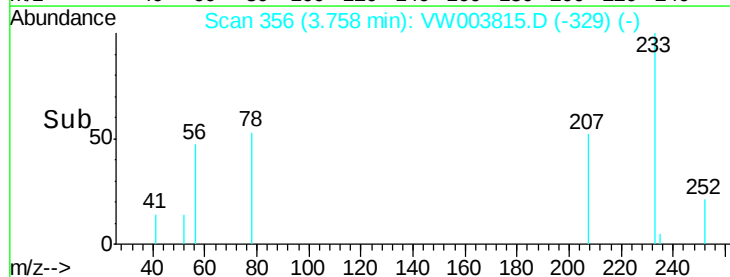
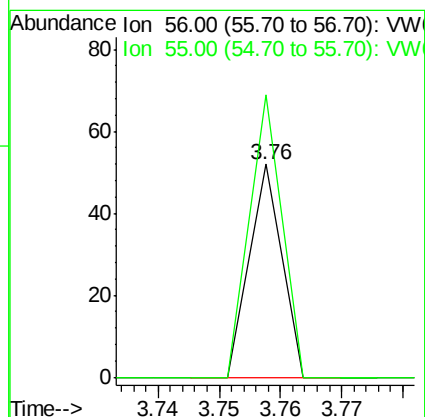
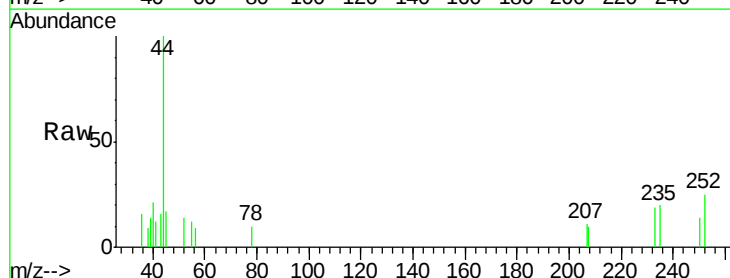
Tot Ion: 59 Resp: 212  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 9.3 13.9#

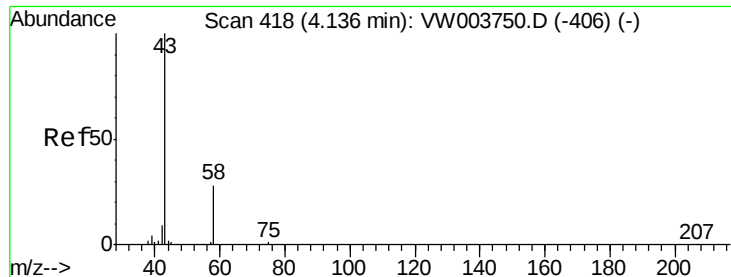


#13

Acrolein  
 Concen: 4.897 ug/l  
 RT: 3.76 min Scan# 356  
 Delta R.T. -0.13 min  
 Lab File: VW003815.D  
 Acq: 10 Jul 2018 09:20

Tgt Ion: 56 Resp: 19  
 Ion Ratio Lower Upper  
 56 100  
 55 131.6 57.5 86.3#





#16

Acetone

Concen: 2.358 ug/l

RT: 4.12 min Scan# 416

Delta R.T. -0.01 min

Lab File: VW003815.D

Acq: 10 Jul 2018 09:20

Instrument :

MSVOA\_W

ClientSampleId :

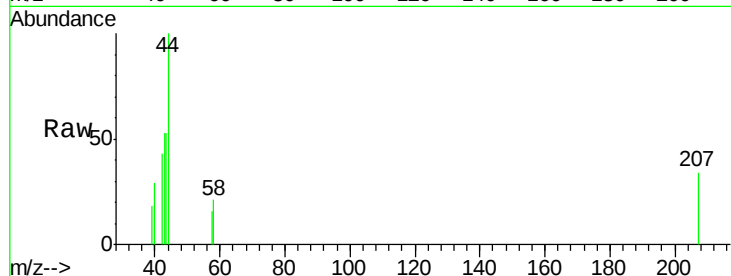
SURCHARGE-SP-19

Tot Ion: 43 Resp: 549

Ion Ratio Lower Upper

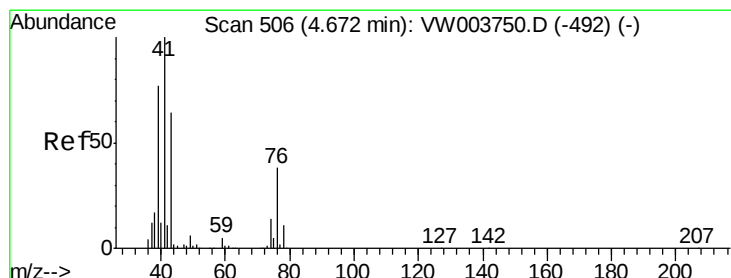
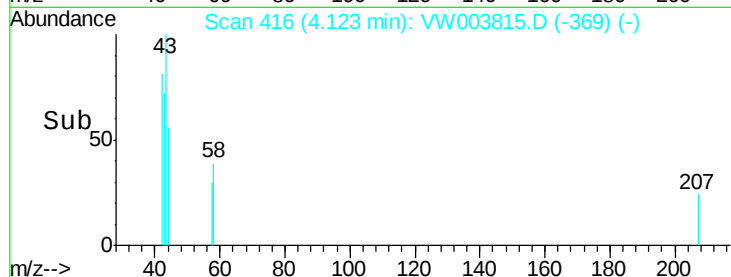
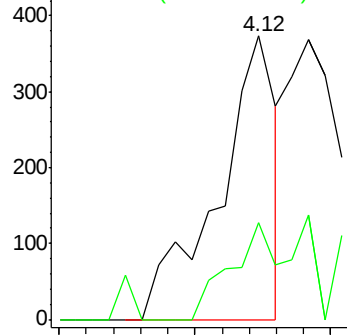
43 100

58 18.2 22.6 34.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 1.578 ug/l

RT: 4.68 min Scan# 507

Delta R.T. 0.01 min

Lab File: VW003815.D

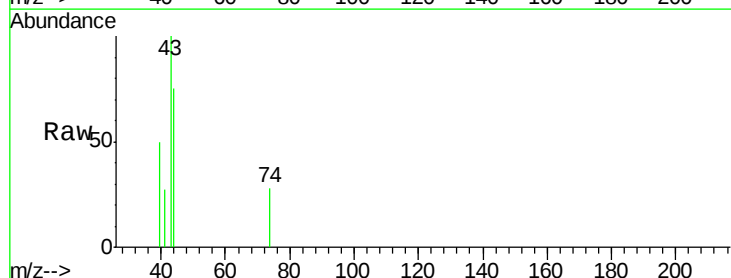
Acq: 10 Jul 2018 09:20

Tgt Ion: 43 Resp: 1036

Ion Ratio Lower Upper

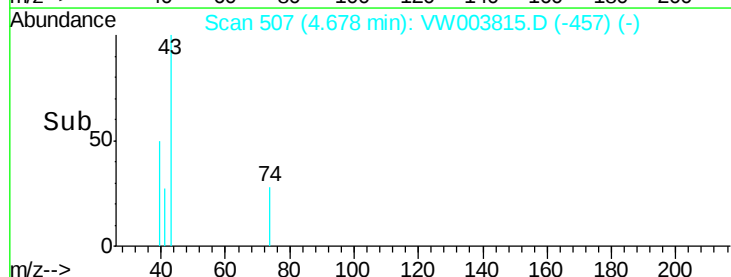
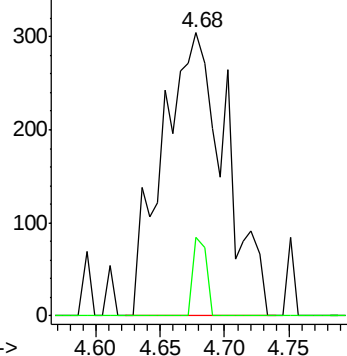
43 100

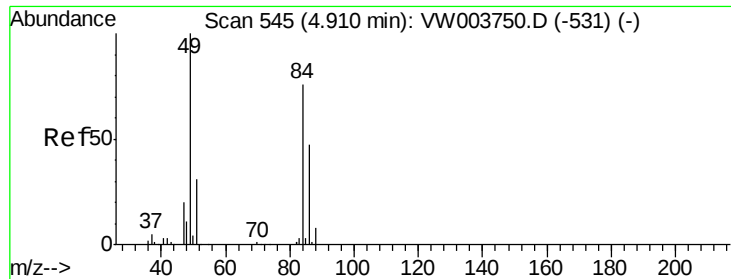
74 5.6 17.3 25.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

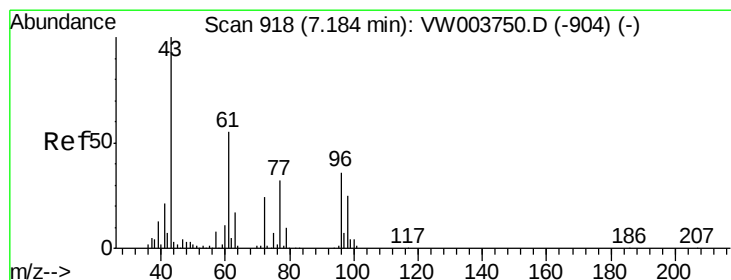
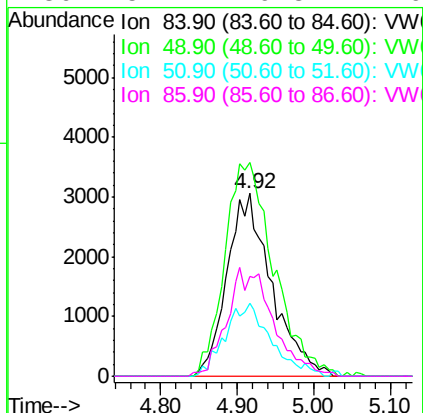
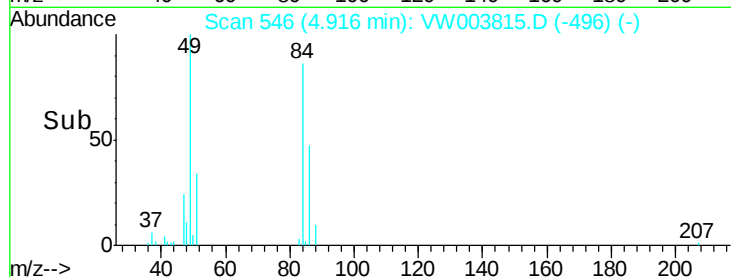
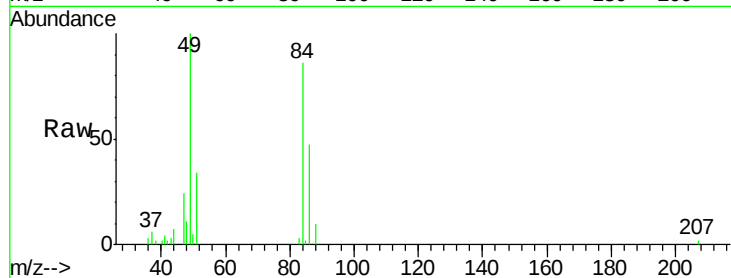




#20  
Methvlene Chloride  
Concen: 7.120 ug/l  
RT: 4.92 min Scan# 546  
Delta R.T. 0.01 min  
Lab File: VW003815.D  
Acq: 10 Jul 2018 09:20

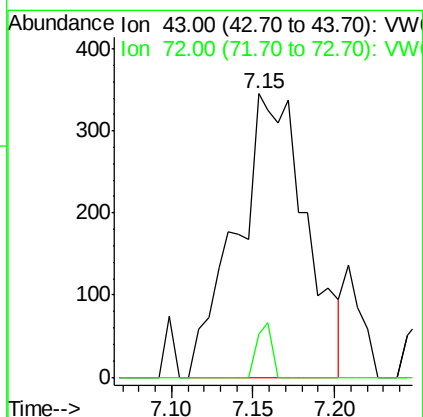
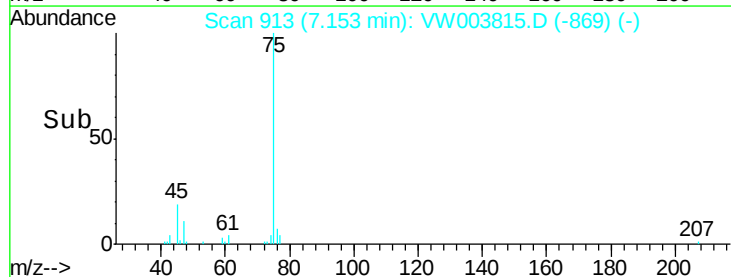
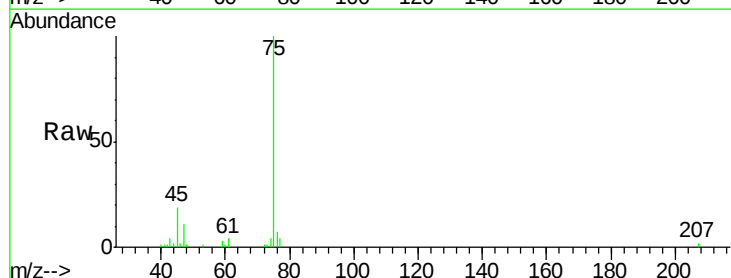
Instrument :  
MSVOA\_W  
ClientSampleId :  
SURCHARGE-SP-19

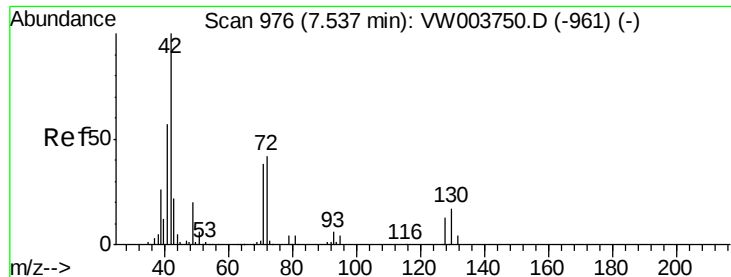
Tot Ion: 84 Resp: 12347  
Ion Ratio Lower Upper  
84 100  
49 116.9 105.1 157.7  
51 39.7 32.5 48.7  
86 54.7 49.8 74.6



#25  
2-Butanone  
Concen: 2.810 ug/l  
RT: 7.15 min Scan# 913  
Delta R.T. -0.03 min  
Lab File: VW003815.D  
Acq: 10 Jul 2018 09:20

Tgt Ion: 43 Resp: 1025  
Ion Ratio Lower Upper  
43 100  
72 15.4 19.4 29.2#

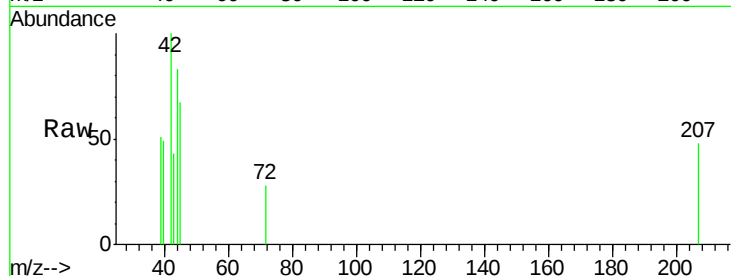




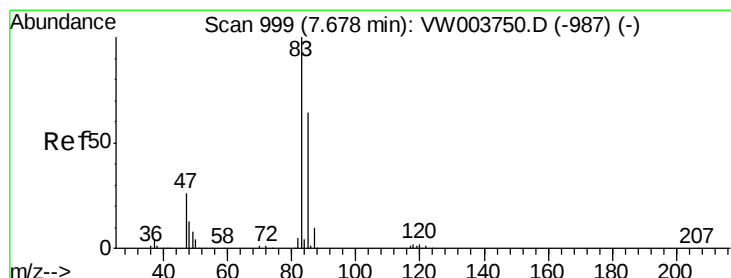
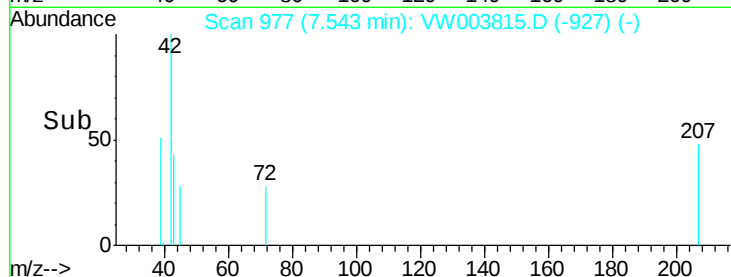
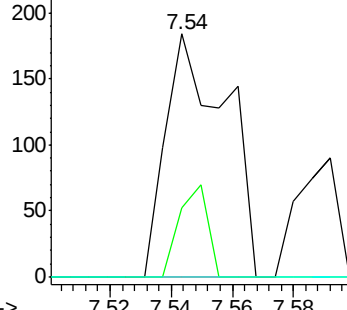
#29  
Tetrahydrofuran  
Concen: 1.066 ug/l  
RT: 7.54 min Scan# 977  
Delta R.T. 0.01 min  
Lab File: VW003815.D  
Acq: 10 Jul 2018 09:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
SURCHARGE-SP-19

Tot Ion: 42 Resp: 250  
Ion Ratio Lower Upper  
42 100  
72 18.0 31.8 47.8#  
71 0.0 30.3 45.5#

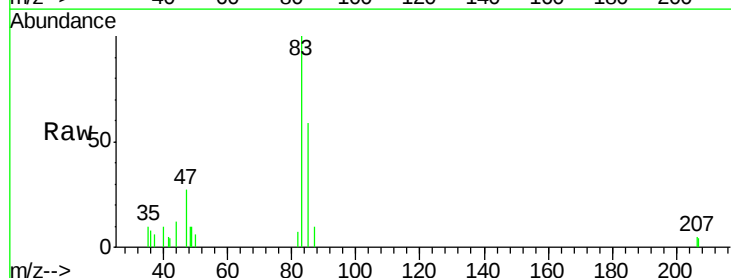


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

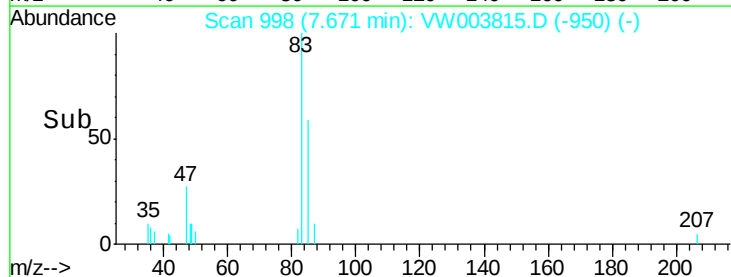
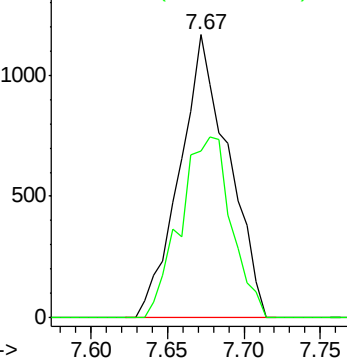


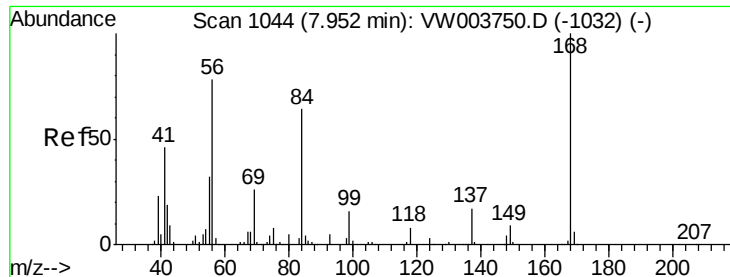
#30  
Chloroform  
Concen: 1.139 ug/l  
RT: 7.67 min Scan# 998  
Delta R.T. -0.01 min  
Lab File: VW003815.D  
Acq: 10 Jul 2018 09:20

Tgt Ion: 83 Resp: 2590  
Ion Ratio Lower Upper  
83 100  
85 59.0 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW

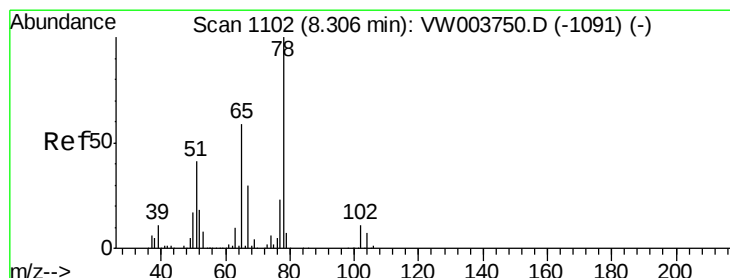
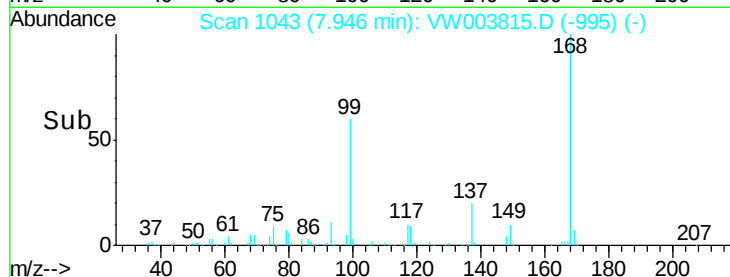
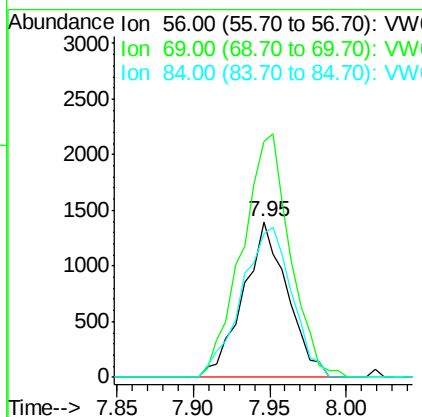
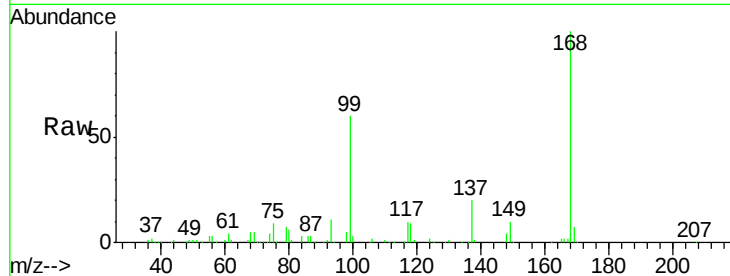




#31  
Cyclohexane  
Concen: 1.433 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW003815.D  
Acq: 10 Jul 2018 09:20

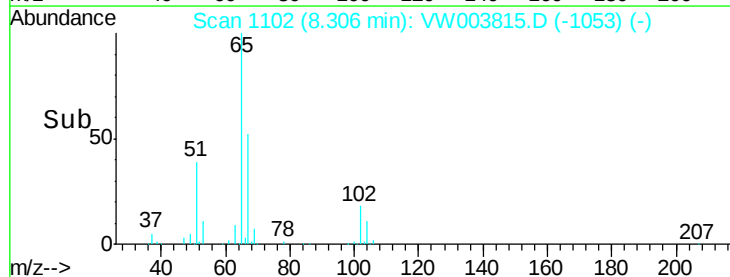
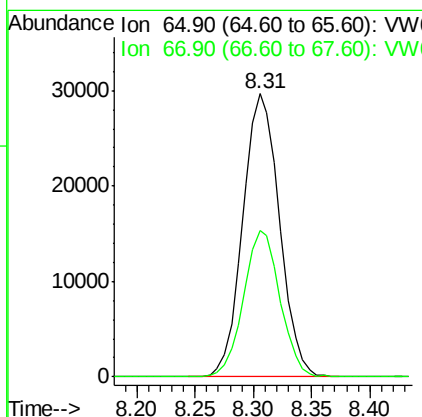
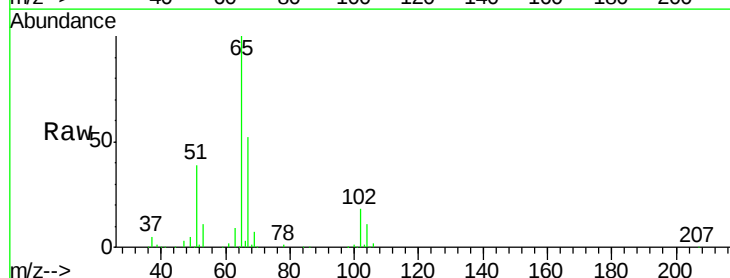
Instrument :  
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SURCHARGE-SP-19

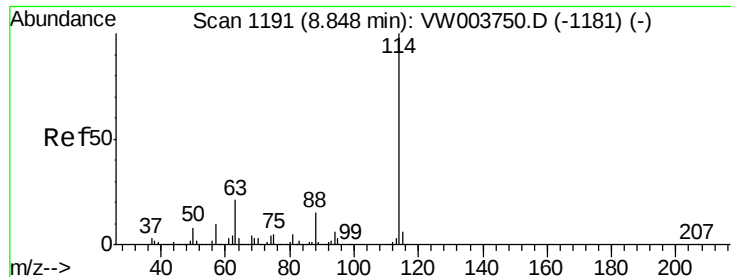
Tot Ion: 56 Resp: 2807  
Ion Ratio Lower Upper  
56 100  
69 151.9 26.2 39.4#  
84 92.3 65.5 98.3



#33  
1,2-Dichloroethane-d4  
Concen: 48.560 ug/l  
RT: 8.31 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VW003815.D  
Acq: 10 Jul 2018 09:20

Tgt Ion: 65 Resp: 65172  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 103.8

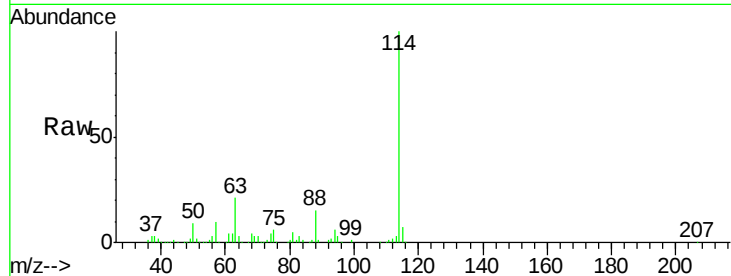




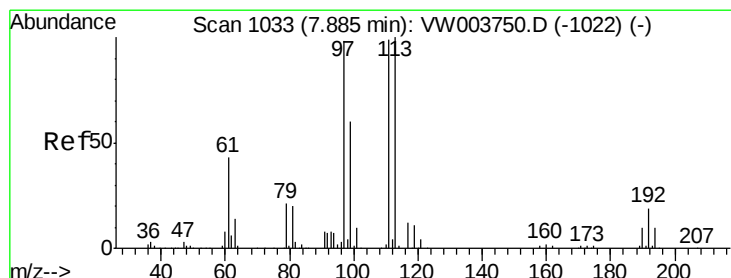
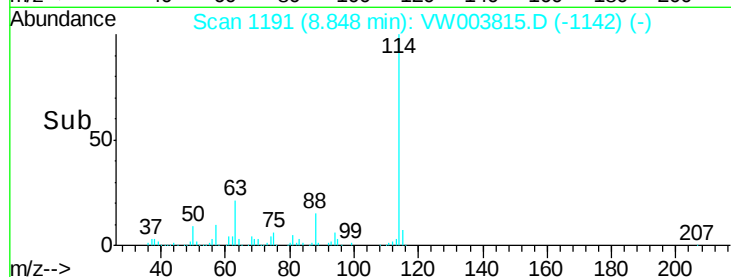
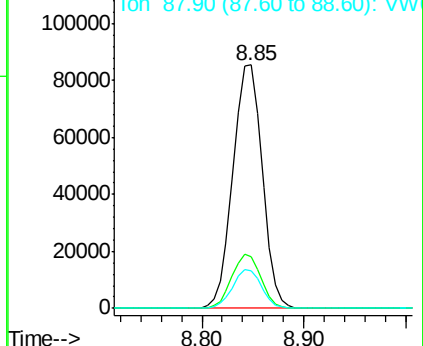
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW003815.D  
 Acq: 10 Jul 2018 09:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SURCHARGE-SP-19

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.4  | 0.0   | 41.8  |
| 88      | 15.2  | 0.0   | 30.2  |

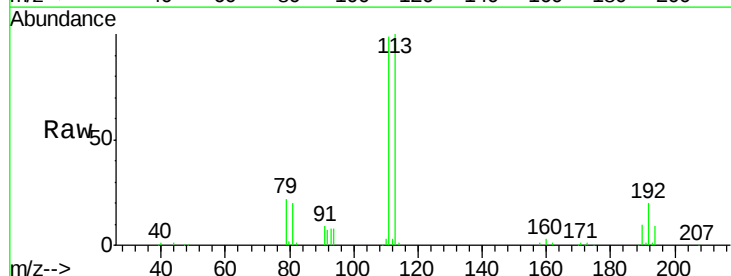


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

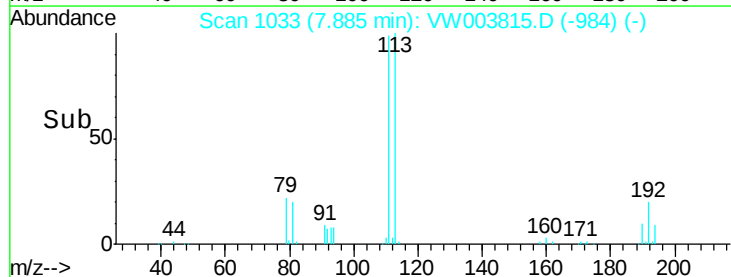
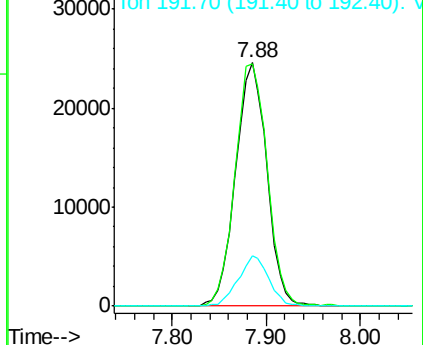


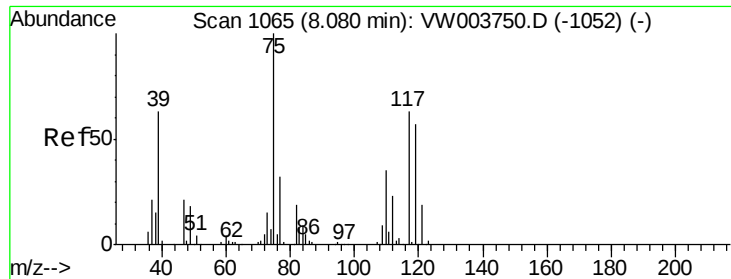
#35  
 Dibromofluoromethane  
 Concen: 47.516 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003815.D  
 Acq: 10 Jul 2018 09:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 81.7  | 122.5 |
| 192     | 20.1  | 15.8  | 23.8  |



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: 5.087 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW003815.D

Acq: 10 Jul 2018 09:20

Instrument :

MSVOA\_W

ClientSampleId :

SURCHARGE-SP-19

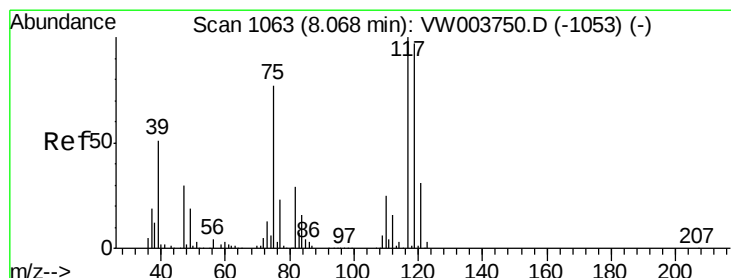
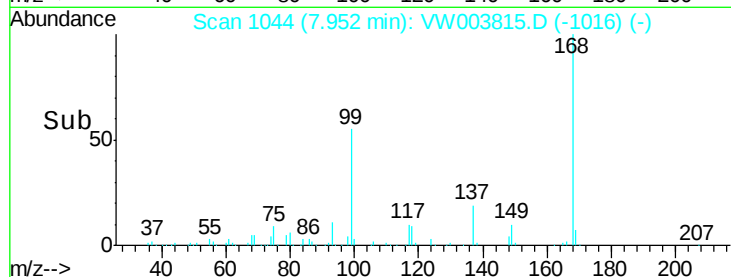
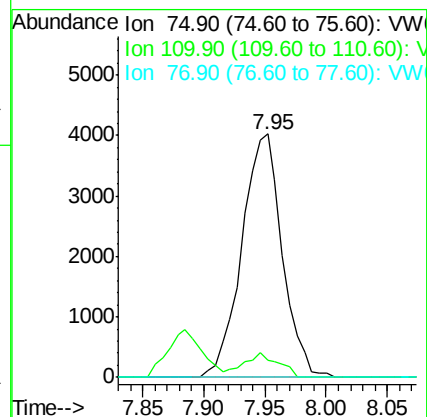
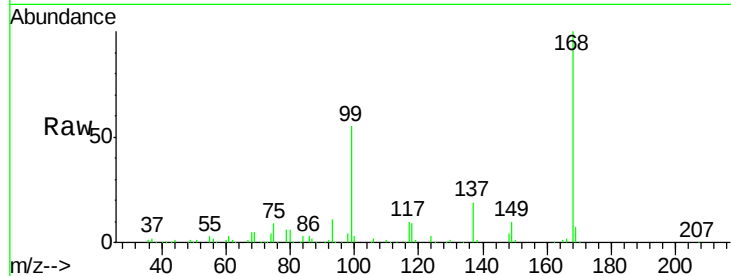
Tot Ion: 75 Resp: 9224

Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.6#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.075 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW003815.D

Acq: 10 Jul 2018 09:20

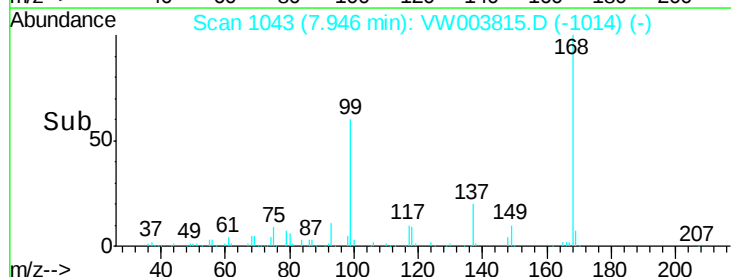
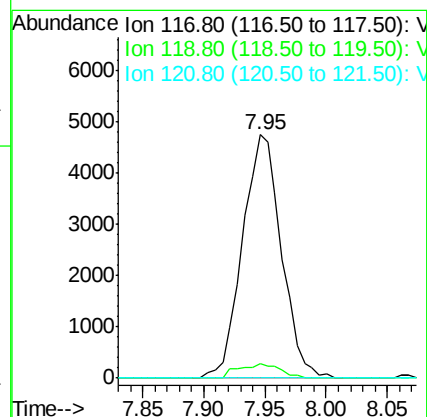
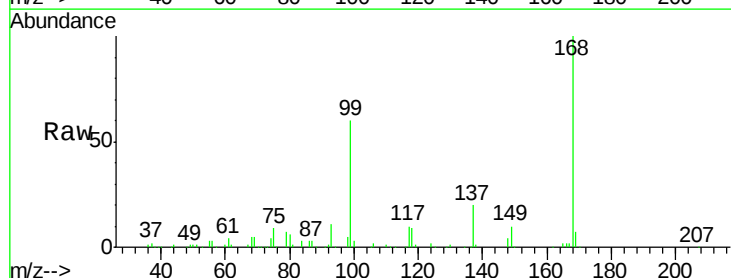
Tgt Ion: 117 Resp: 10475

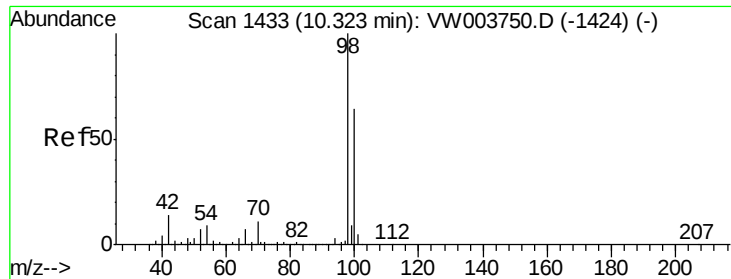
Ion Ratio Lower Upper

117 100

119 5.8 77.4 116.2#

121 0.0 24.6 37.0#





#50

Toluene-d8

Concen: 33.989 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VW003815.D

Acq: 10 Jul 2018 09:20

Instrument :

MSVOA\_W

ClientSampleId :

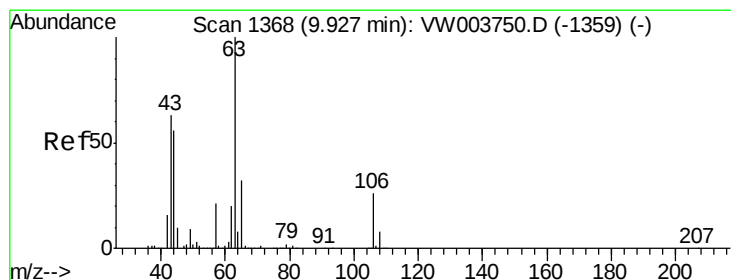
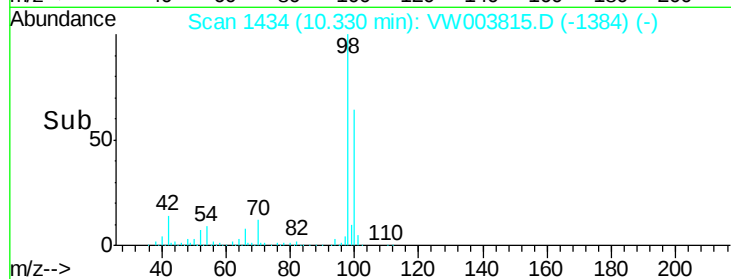
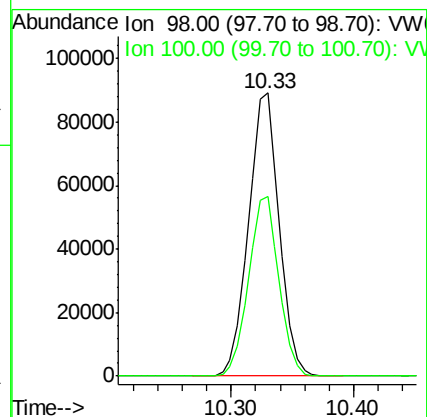
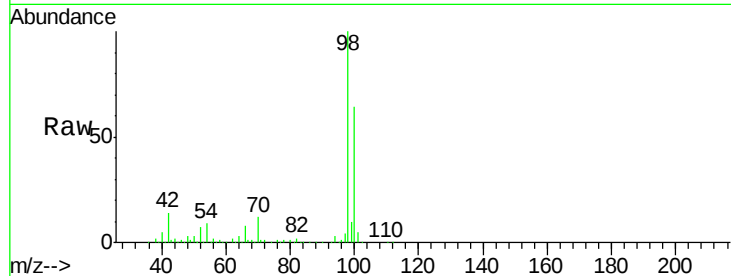
SURCHARGE-SP-19

Tot Ion: 98 Resp: 155521

Ion Ratio Lower Upper

98 100

100 62.8 50.8 76.2



#58

2-Chloroethyl Vinyl ether

Concen: 13.211 ug/l

RT: 9.93 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VW003815.D

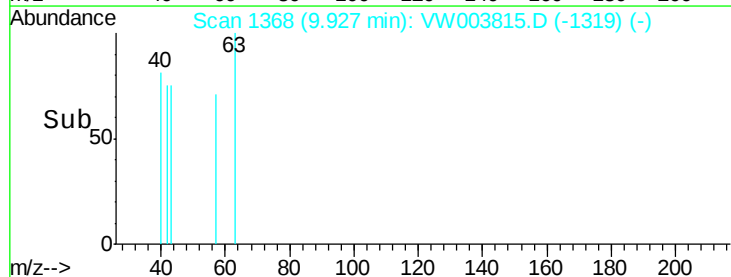
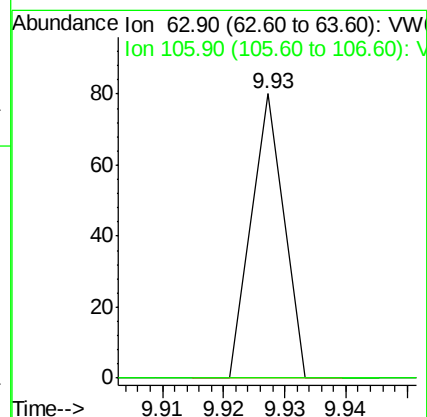
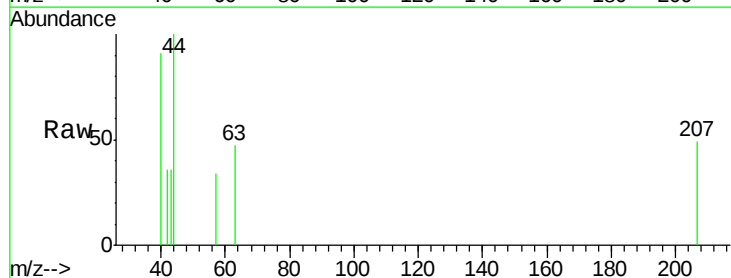
Acq: 10 Jul 2018 09:20

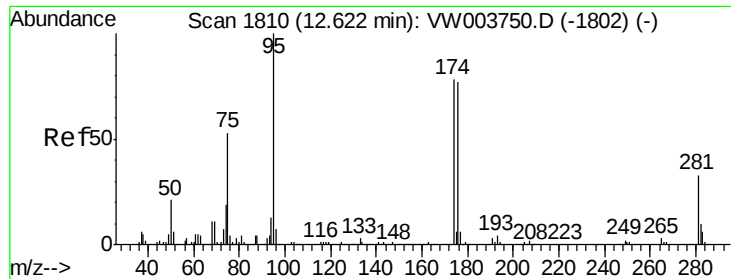
Tgt Ion: 63 Resp: 29

Ion Ratio Lower Upper

63 100

106 0.0 20.9 31.3#

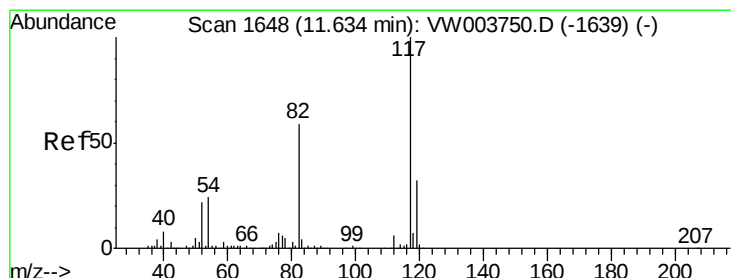
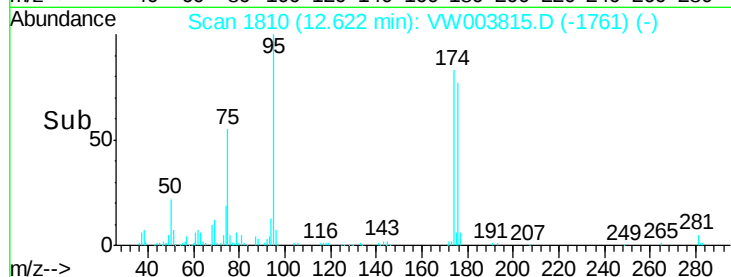
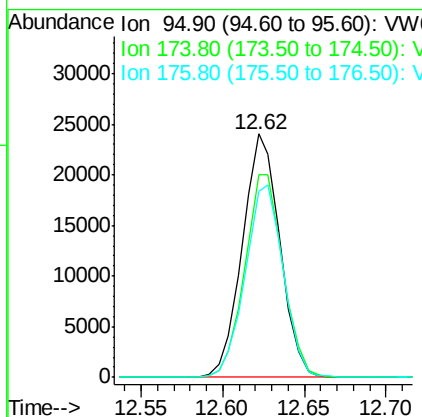
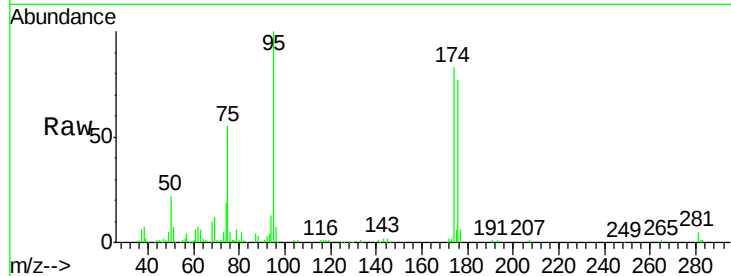




#62  
4-Bromofluorobenzene  
Concen: 23.172 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW003815.D  
Acq: 10 Jul 2018 09:20

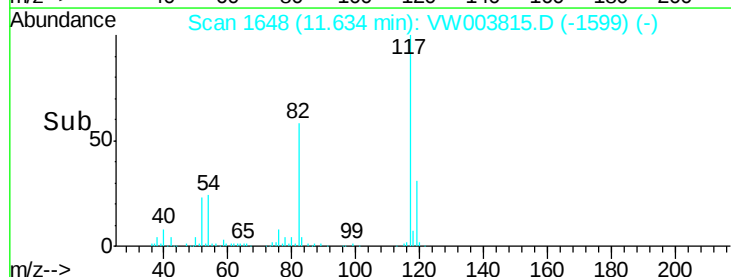
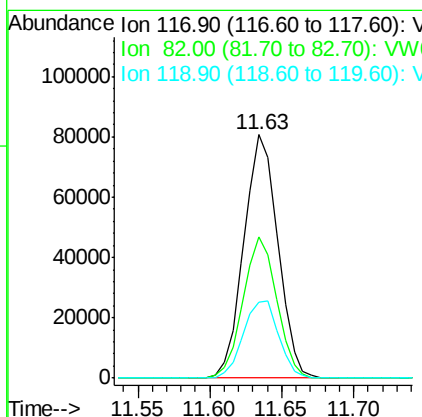
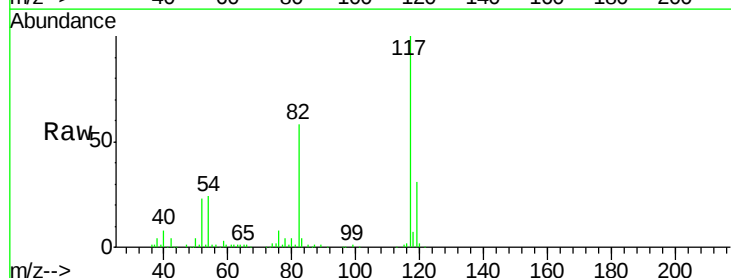
Instrument :  
MSVOA\_W  
ClientSampleId :  
SURCHARGE-SP-19

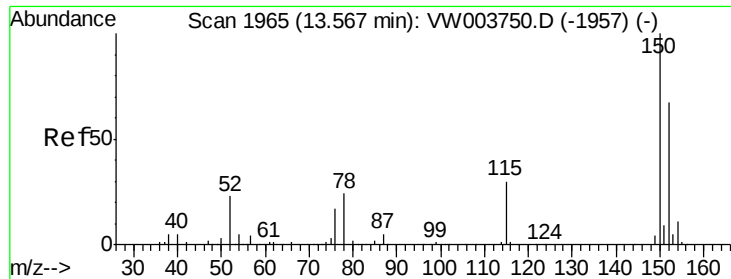
Tot Ion: 95 Resp: 38362  
Ion Ratio Lower Upper  
95 100  
174 85.1 0.0 163.4  
176 80.4 0.0 156.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003815.D  
Acq: 10 Jul 2018 09:20

Tgt Ion: 117 Resp: 132262  
Ion Ratio Lower Upper  
117 100  
82 57.8 46.9 70.3  
119 31.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW003815.D

Acq: 10 Jul 2018 09:20

Instrument :

MSVOA\_W

ClientSampleId :

SURCHARGE-SP-19

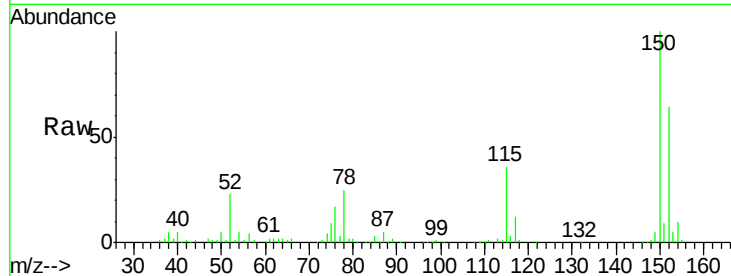
Tot Ion:152 Resp: 40191

Ion Ratio Lower Upper

152 100

115 57.2 28.9 86.8

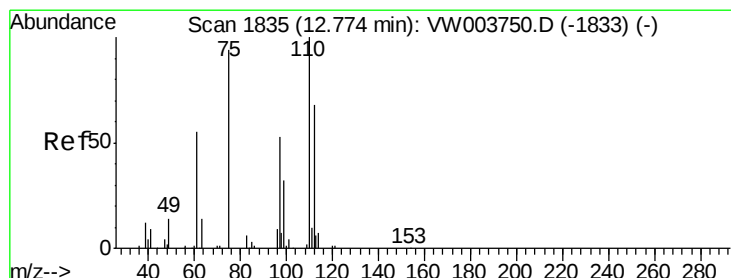
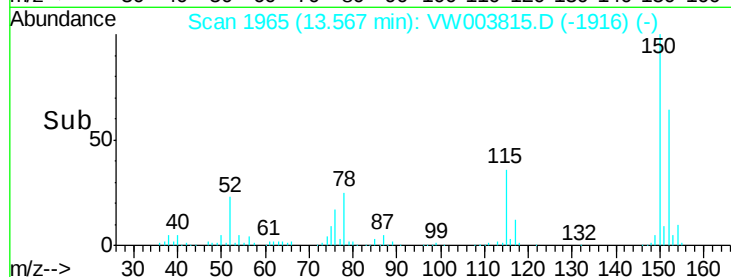
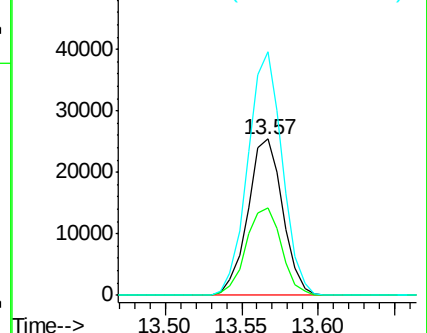
150 153.7 0.0 342.4



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: 54.015 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003815.D

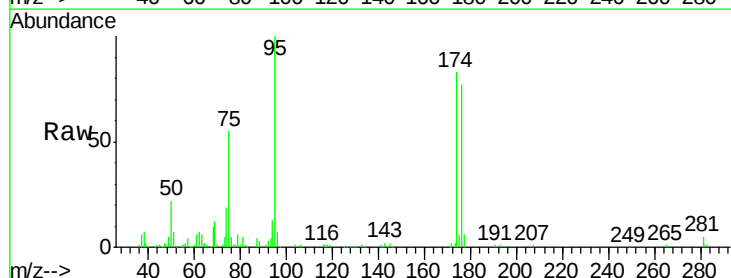
Acq: 10 Jul 2018 09:20

Tgt Ion: 75 Resp: 21318

Ion Ratio Lower Upper

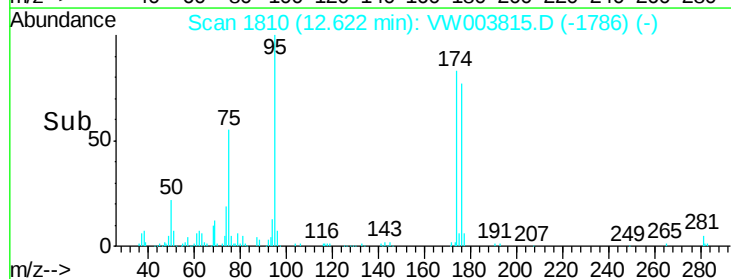
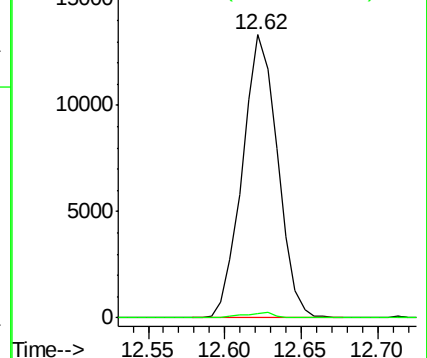
75 100

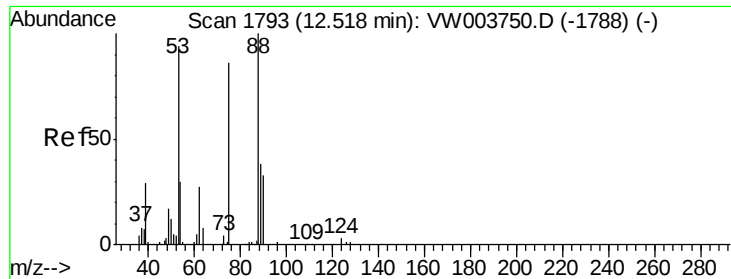
77 1.6 0.0 0.0#



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: 132.133 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003815.D

Acq: 10 Jul 2018 09:20

Instrument :

MSVOA\_W

ClientSampleId :

SURCHARGE-SP-19

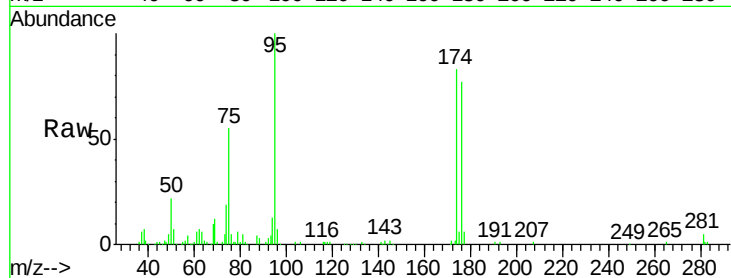
Tot Ion: 75 Resp: 21318

Ion Ratio Lower Upper

75 100

53 0.3 85.0 127.6#

89 0.0 36.3 54.5#



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

