

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070918\  
 Data File : VW003801.D  
 Acq On : 10 Jul 2018 03:15  
 Operator : SY/AP  
 Sample : J3879-10  
 Misc : 5.32G/5ML/MSVOA W/SOIL  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SURCHARGE-SP-5

Quant Time: Jul 10 04:25:50 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  | 107640   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 169405   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 109074   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 22566    | 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   | 63472    | 45.09 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.18% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 56994    | 48.07 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.14% |          |
| 50) Toluene-d8              | 10.32 | 98   | 140142   | 30.90 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 61.80% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 26634    | 16.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 32.46% |          |

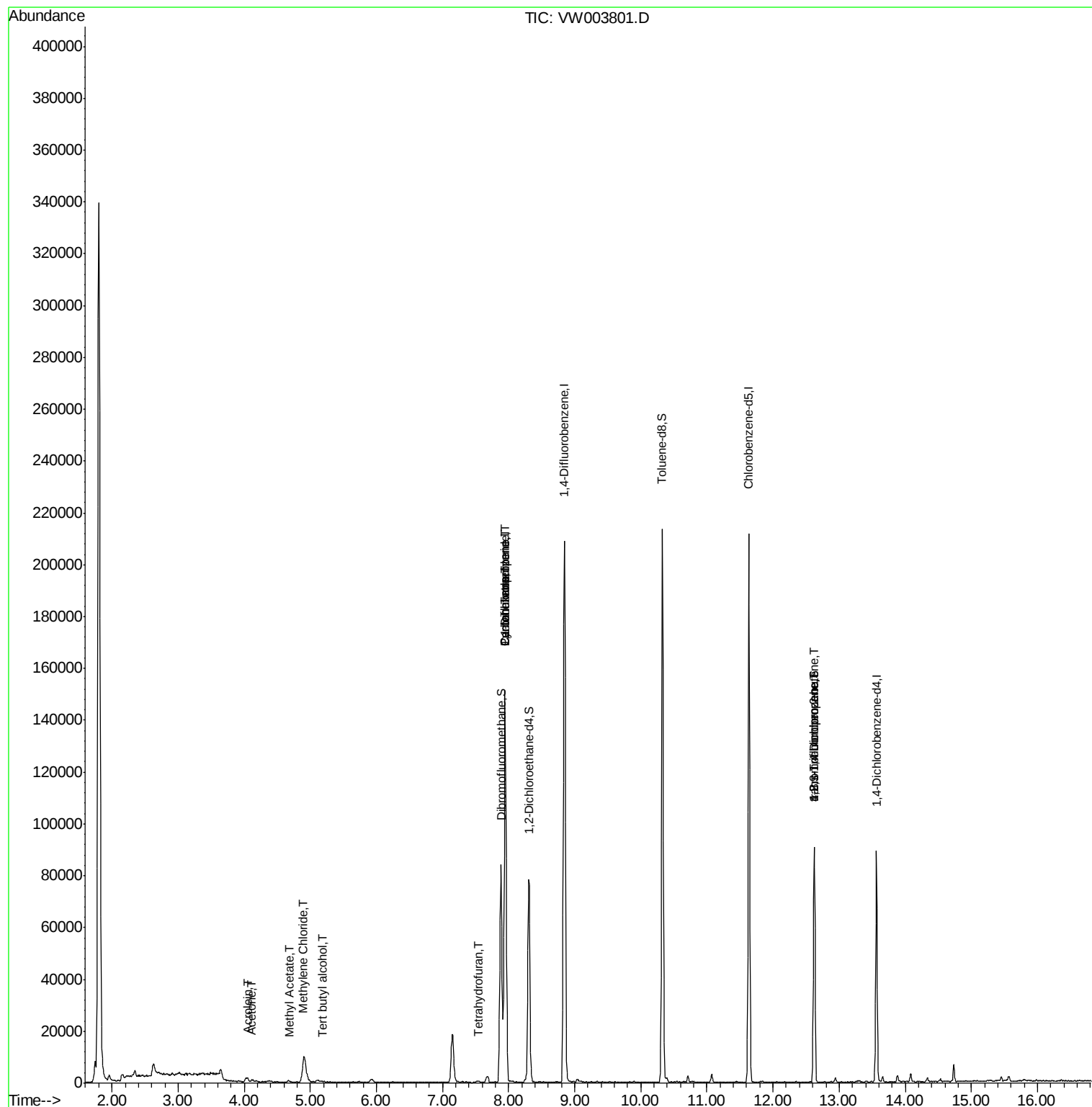
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 379      | 4.97   | ug/l # | 70     |
| 13) Acrolein                   | 4.05  | 56   | 20       | 4.90   | ug/l # | 14     |
| 16) Acetone                    | 4.11  | 43   | 1311     | 5.37   | ug/l # | 46     |
| 18) Methyl Acetate             | 4.69  | 43   | 930      | 1.35   | ug/l   | 93     |
| 20) Methylene Chloride         | 4.89  | 84   | 8609     | 3.12   | ug/l   | 95     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 414      | 1.68   | ug/l # | 36     |
| 31) Cyclohexane                | 7.95  | 56   | 2781     | 1.35   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 9542     | 5.31   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.94  | 117  | 10793    | 6.32   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 14558    | 65.70  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 14558    | 160.71 | ug/l # | 8      |

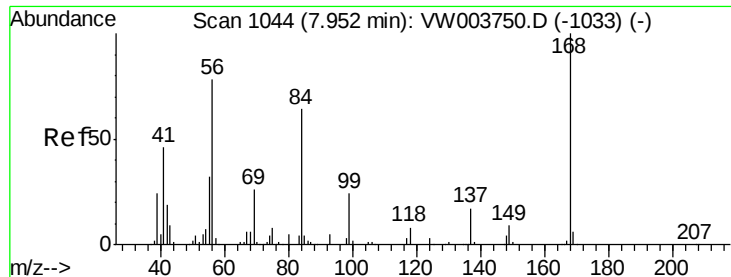
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 50.00 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW003801.D

Acq: 10 Jul 2018 03:15

Instrument :

MSVOA\_W

ClientSampleId :

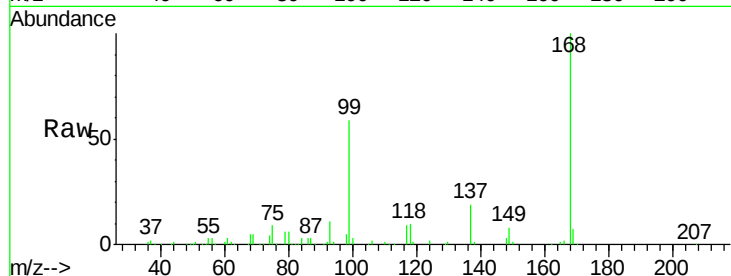
SURCHARGE-SP-5

Tot Ion:168 Resp: 107640

Ion Ratio Lower Upper

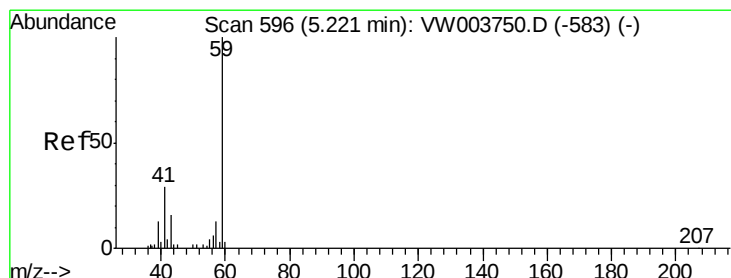
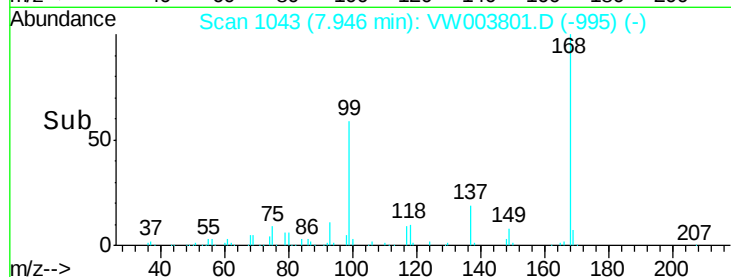
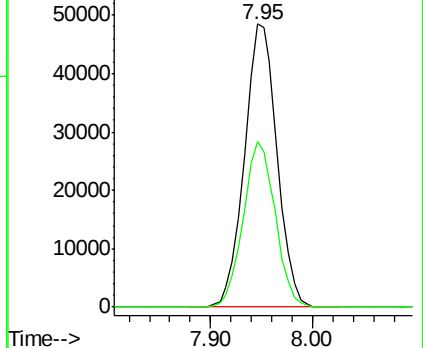
168 100

99 58.6 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 4.97 ug/l

RT: 5.17 min Scan# 588

Delta R.T. -0.05 min

Lab File: VW003801.D

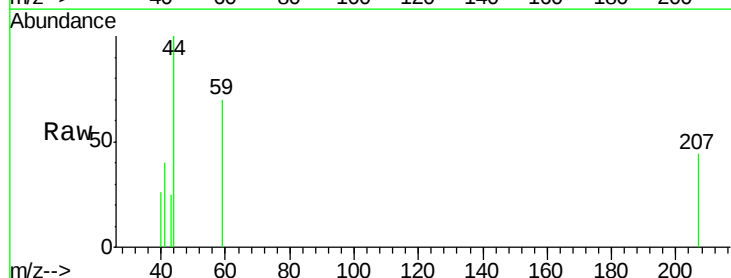
Acq: 10 Jul 2018 03:15

Tgt Ion: 59 Resp: 379

Ion Ratio Lower Upper

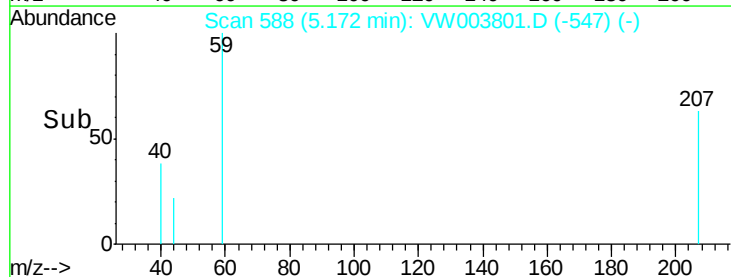
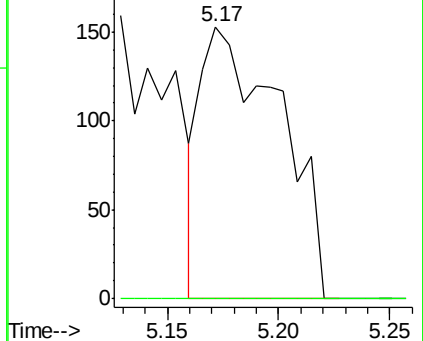
59 100

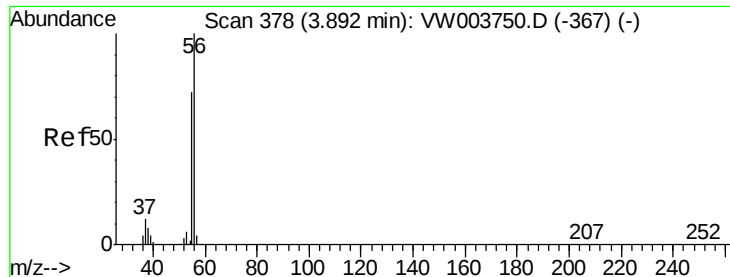
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 4.90 ug/l

RT: 4.05 min Scan# 404

Delta R.T. 0.16 min

Lab File: VW003801.D

Acq: 10 Jul 2018 03:15

Instrument :

MSVOA\_W

ClientSampleId :

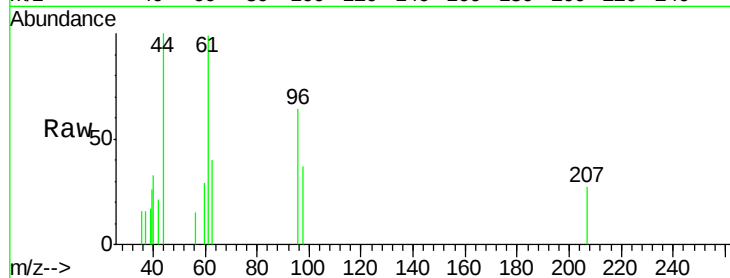
SURCHARGE-SP-5

Tot Ion: 56 Resp: 20

Ion Ratio Lower Upper

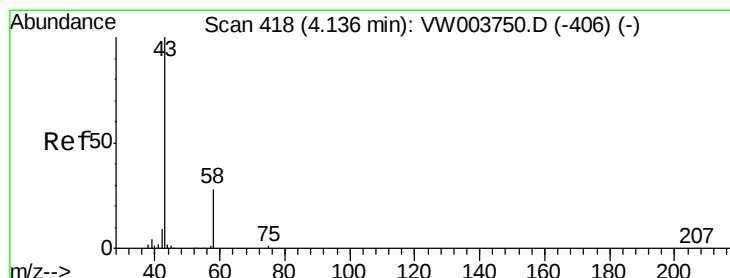
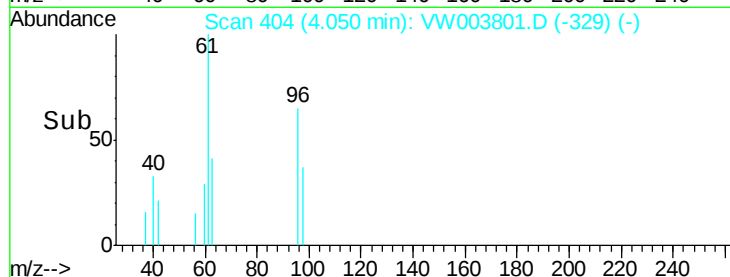
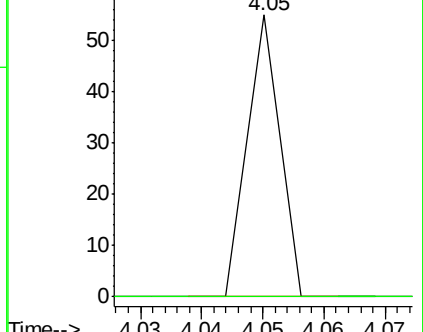
56 100

55 0.0 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 5.37 ug/l

RT: 4.11 min Scan# 414

Delta R.T. -0.02 min

Lab File: VW003801.D

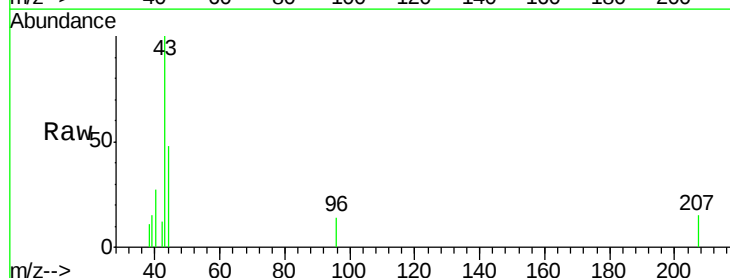
Acq: 10 Jul 2018 03:15

Tgt Ion: 43 Resp: 1311

Ion Ratio Lower Upper

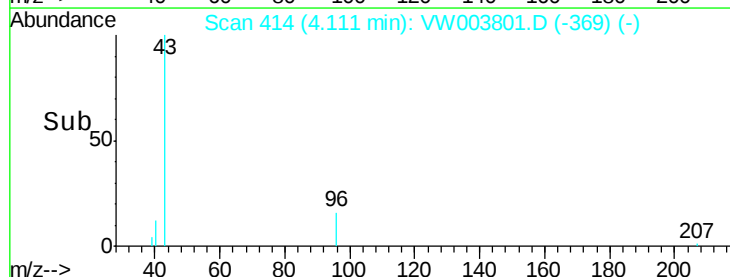
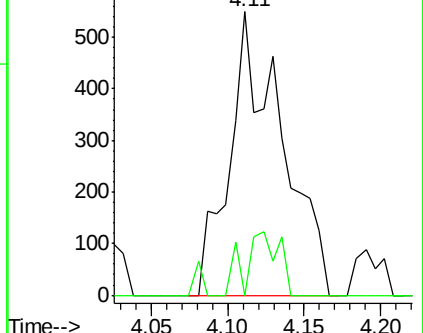
43 100

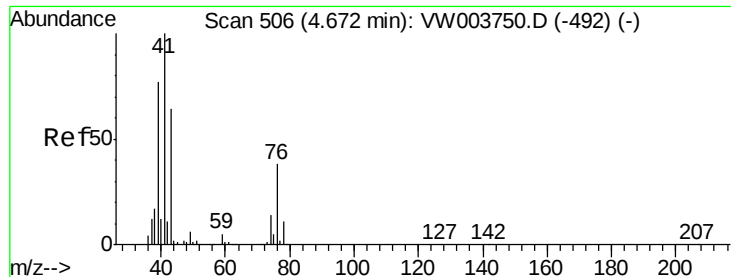
58 0.0 22.6 34.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

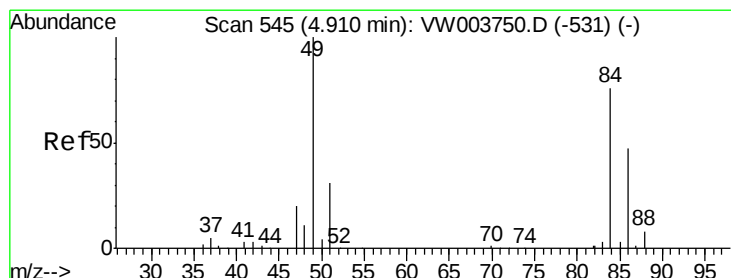
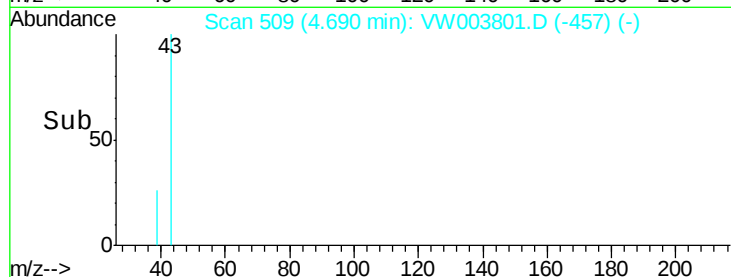
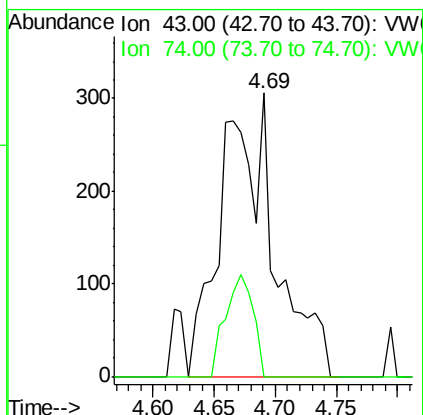
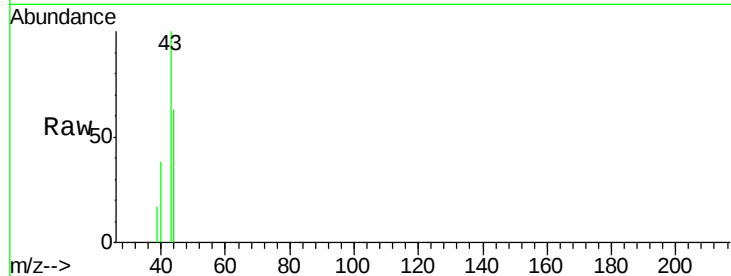




#18  
Methyl Acetate  
Concen: 1.35 ug/l  
RT: 4.69 min Scan# 509  
Delta R.T. 0.02 min  
Lab File: VW003801.D  
Acq: 10 Jul 2018 03:15

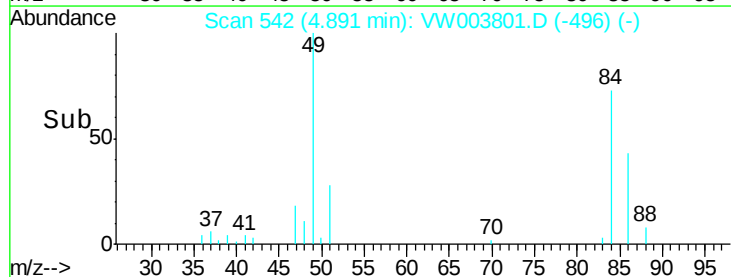
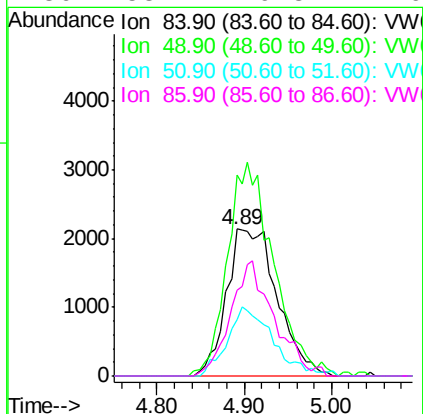
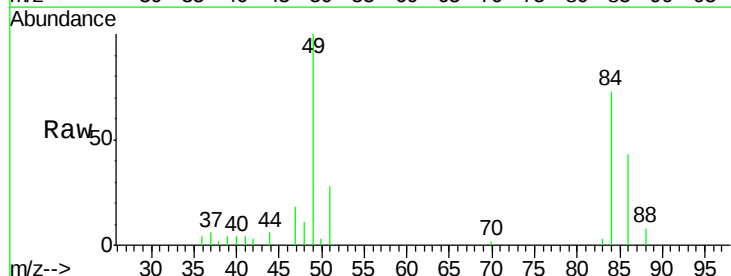
Instrument :  
MSVOA\_W  
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SURCHARGE-SP-5

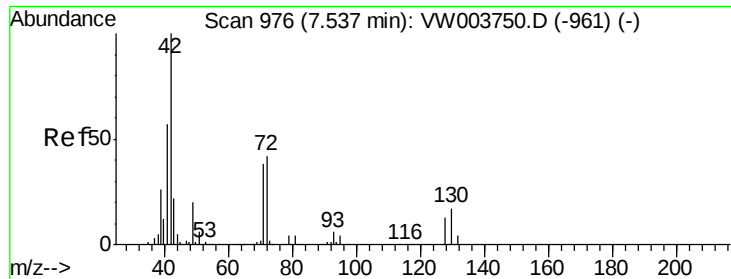
Tot Ion: 43 Resp: 930  
Ion Ratio Lower Upper  
43 100  
74 18.3 17.3 25.9



#20  
Methylene Chloride  
Concen: 3.12 ug/l  
RT: 4.89 min Scan# 542  
Delta R.T. -0.02 min  
Lab File: VW003801.D  
Acq: 10 Jul 2018 03:15

Tgt Ion: 84 Resp: 8609  
Ion Ratio Lower Upper  
84 100  
49 137.3 105.1 157.7  
51 38.3 32.5 48.7  
86 58.4 49.8 74.6

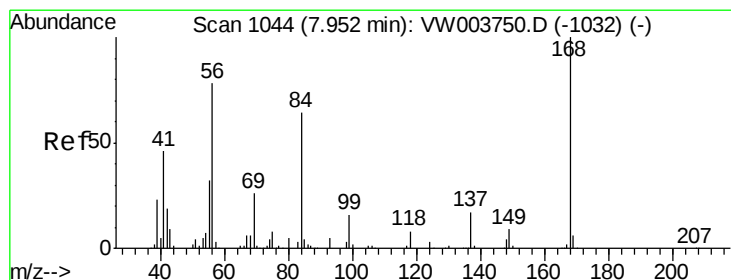
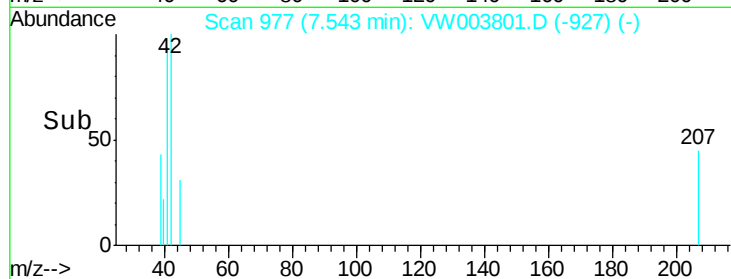
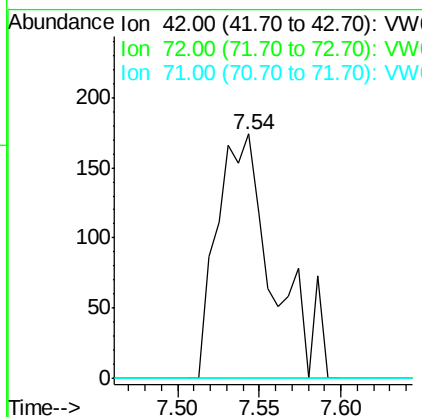
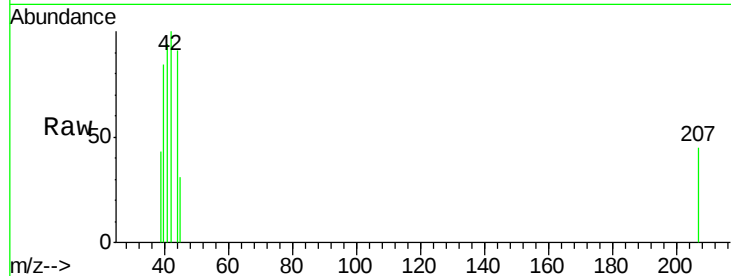




#29  
Tetrahydrofuran  
Concen: 1.68 ug/l  
RT: 7.54 min Scan# 977  
Delta R.T. 0.01 min  
Lab File: VW003801.D  
Acq: 10 Jul 2018 03:15

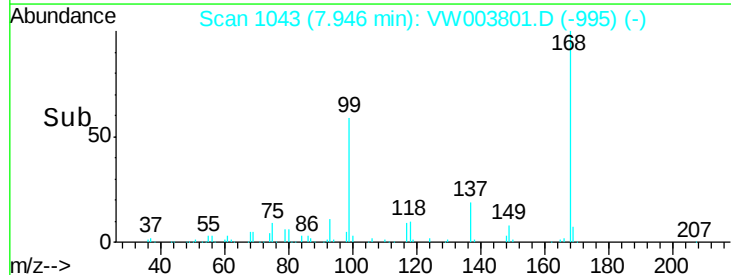
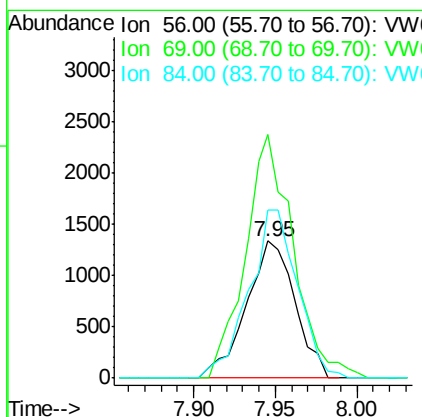
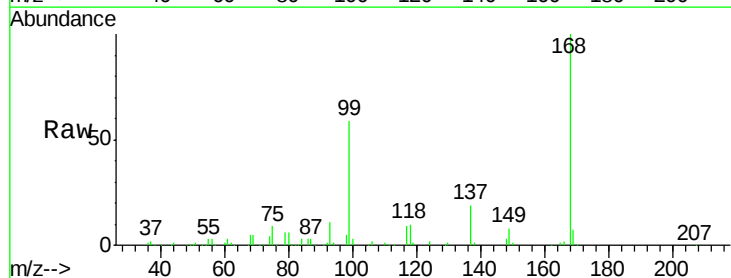
Instrument :  
MSVOA\_W  
ClientSampleId :  
SURCHARGE-SP-5

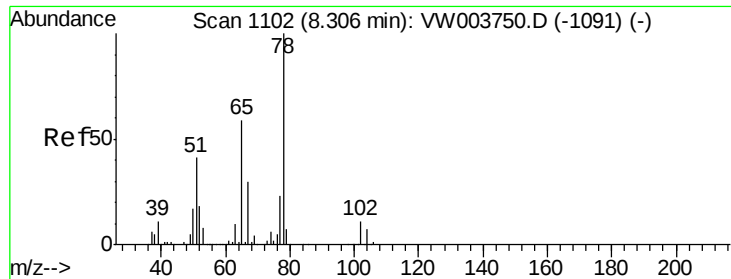
Tot Ion: 42 Resp: 414  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.8 47.8#  
71 0.0 30.3 45.5#



#31  
Cyclohexane  
Concen: 1.35 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW003801.D  
Acq: 10 Jul 2018 03:15

Tgt Ion: 56 Resp: 2781  
Ion Ratio Lower Upper  
56 100  
69 177.5 26.2 39.4#  
84 122.3 65.5 98.3#

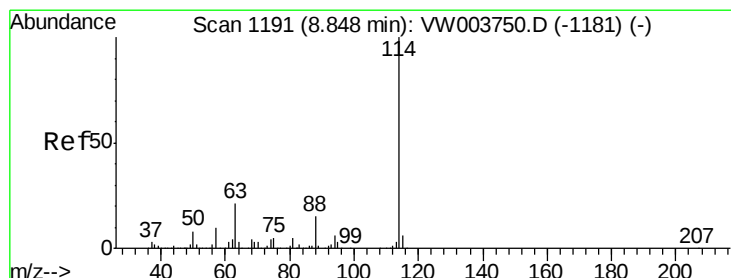
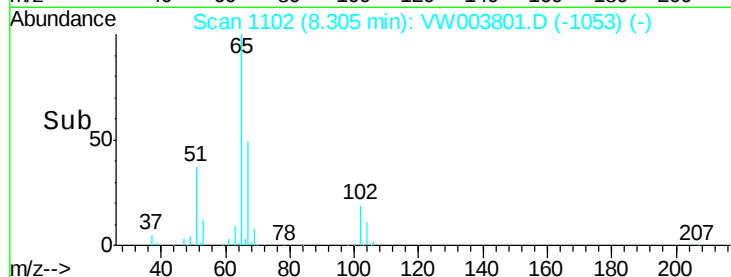
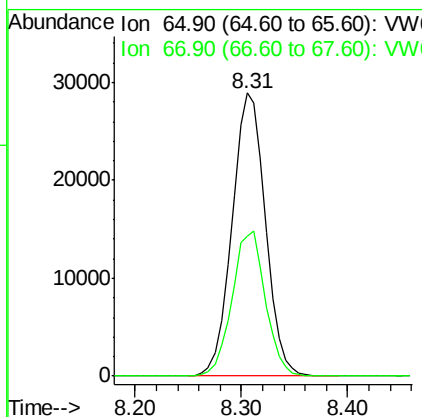
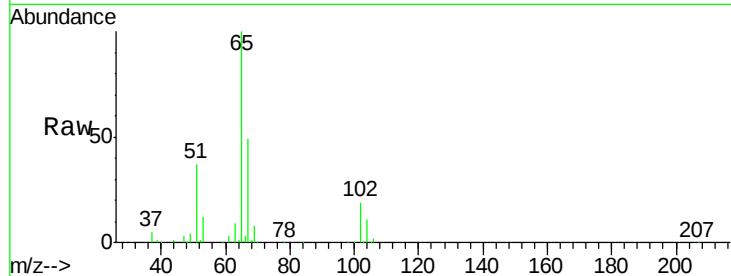




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.09 ug/l  
 RT: 8.31 min Scan# 1102  
 Delta R.T. -0.00 min  
 Lab File: VW003801.D  
 Acq: 10 Jul 2018 03:15

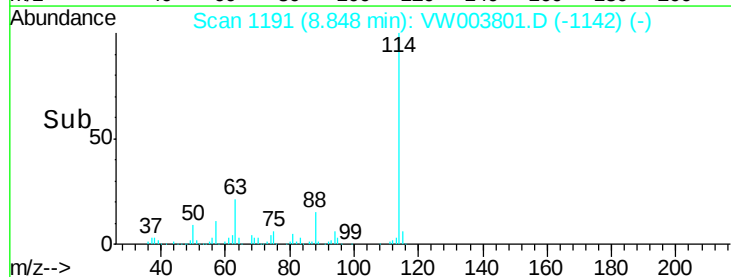
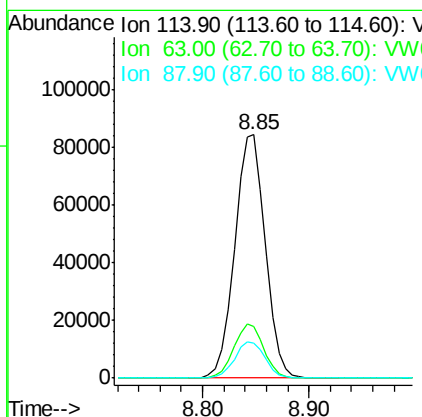
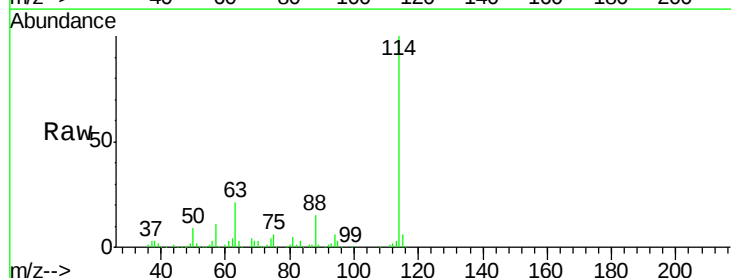
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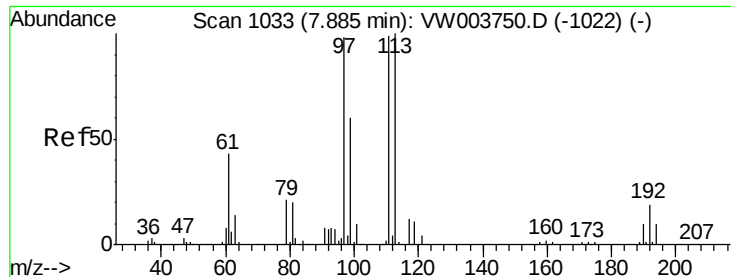
Tot Ion: 65 Resp: 63472  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW003801.D  
 Acq: 10 Jul 2018 03:15

Tgt Ion: 114 Resp: 169405  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 41.8  
 88 14.5 0.0 30.2

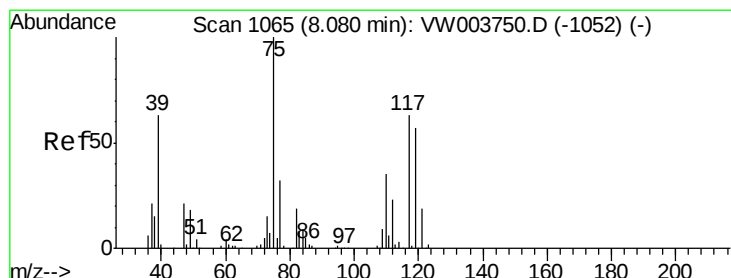
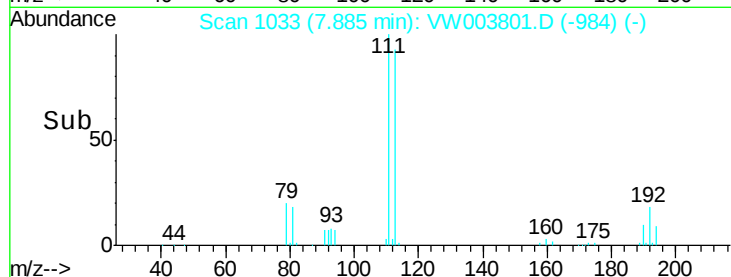
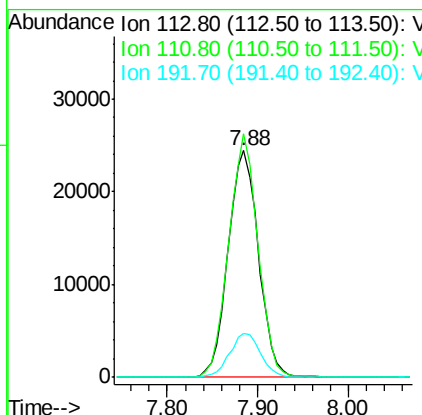
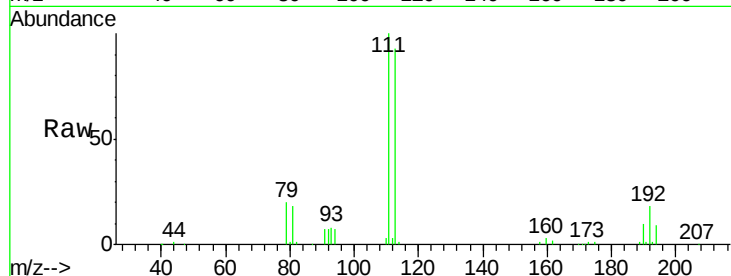




#35  
 Dibromofluoromethane  
 Concen: 48.07 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003801.D  
 Acq: 10 Jul 2018 03:15

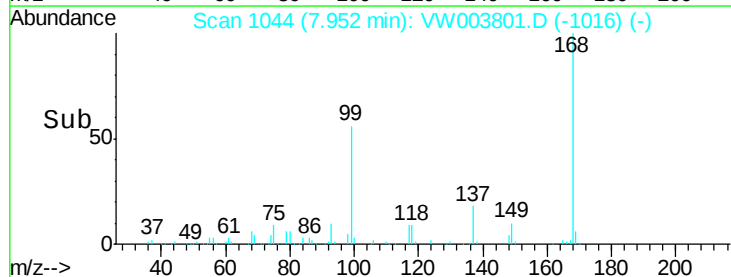
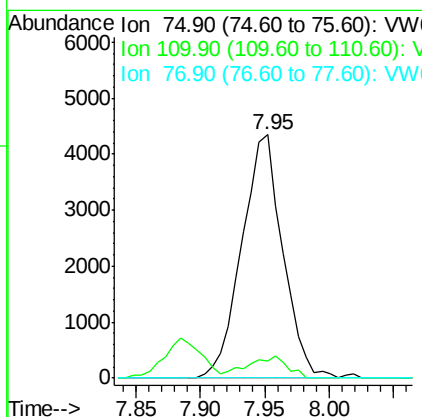
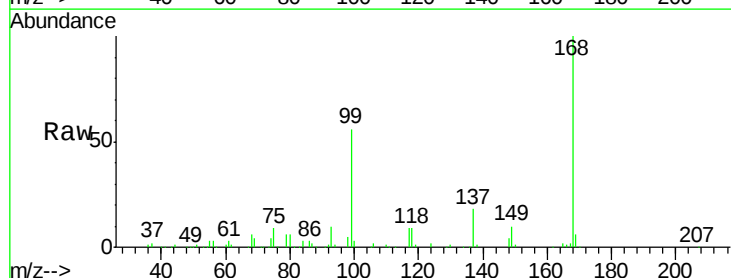
Instrument :  
 MSVOA\_W  
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 SURCHARGE-SP-5

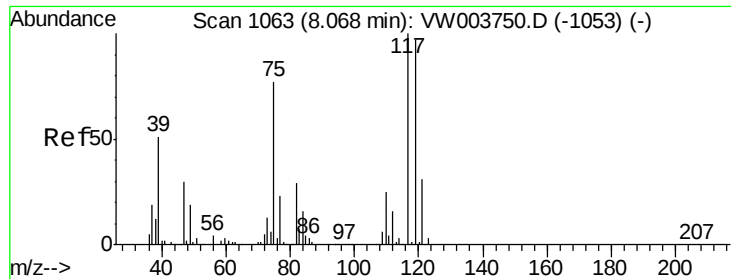
Tot Ion:113 Resp: 56994  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 81.7 122.5  
 192 19.7 15.8 23.8



#36  
 1,1-Dichloropropene  
 Concen: 5.31 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW003801.D  
 Acq: 10 Jul 2018 03:15

Tgt Ion: 75 Resp: 9542  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 16.9 50.6#  
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.32 ug/l

RT: 7.94 min Scan# 1042

Delta R.T. -0.13 min

Lab File: VW003801.D

Acq: 10 Jul 2018 03:15

Instrument :

MSVOA\_W

ClientSampleId :

SURCHARGE-SP-5

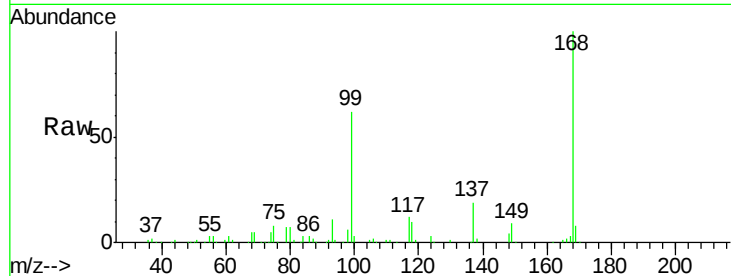
Tot Ion:117 Resp: 10793

Ion Ratio Lower Upper

117 100

119 5.8 77.4 116.2#

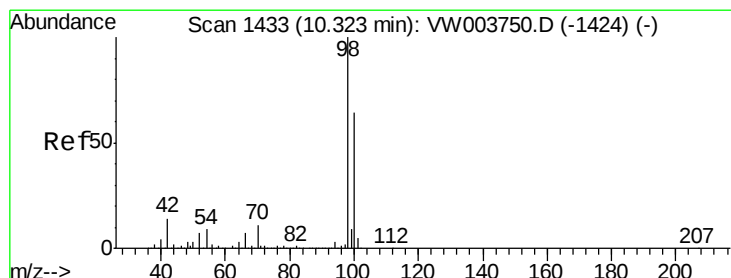
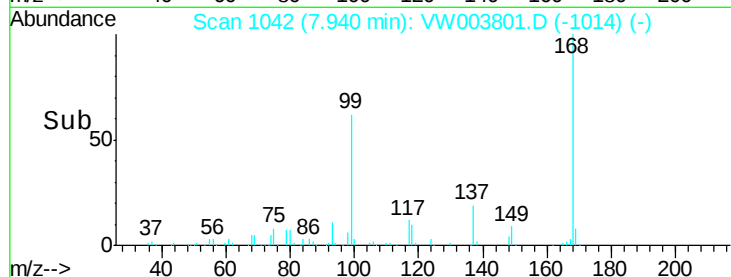
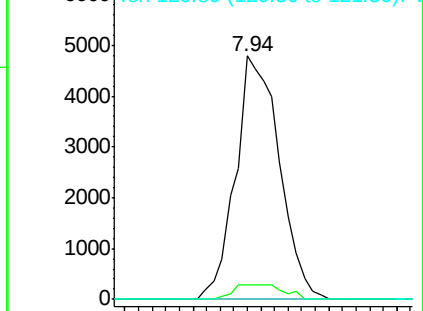
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 30.90 ug/l

RT: 10.32 min Scan# 1433

Delta R.T. -0.00 min

Lab File: VW003801.D

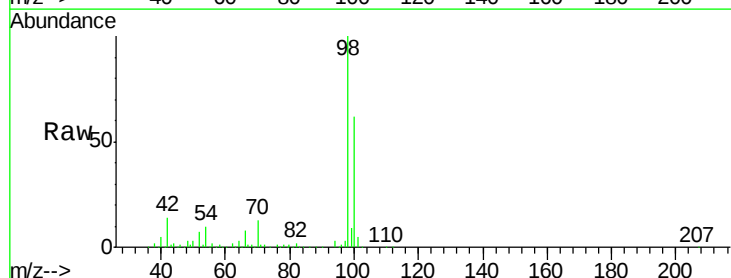
Acq: 10 Jul 2018 03:15

Tgt Ion: 98 Resp: 140142

Ion Ratio Lower Upper

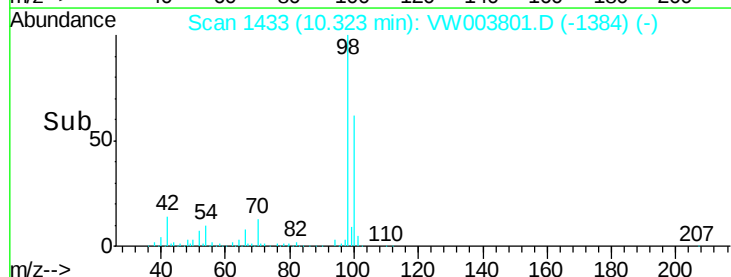
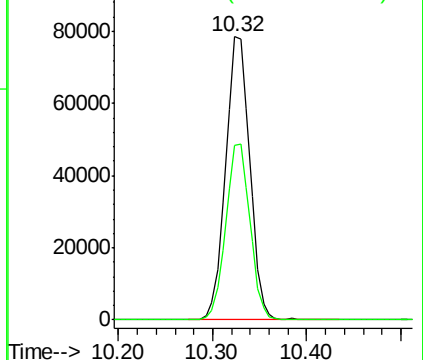
98 100

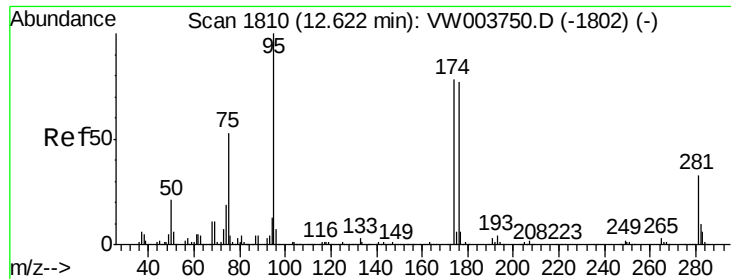
100 62.1 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

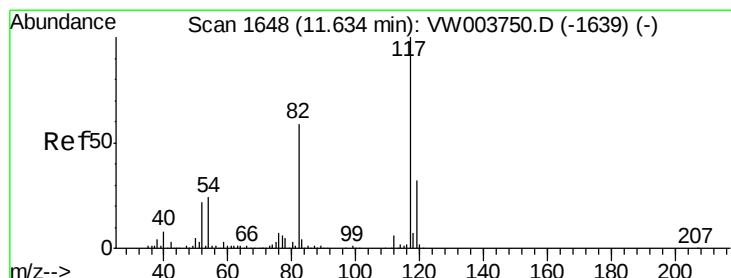
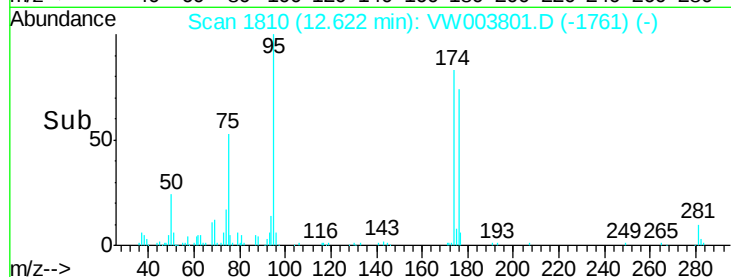
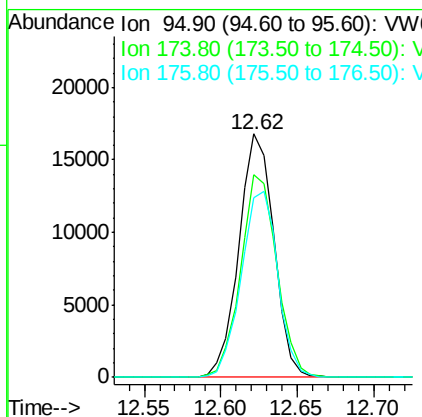
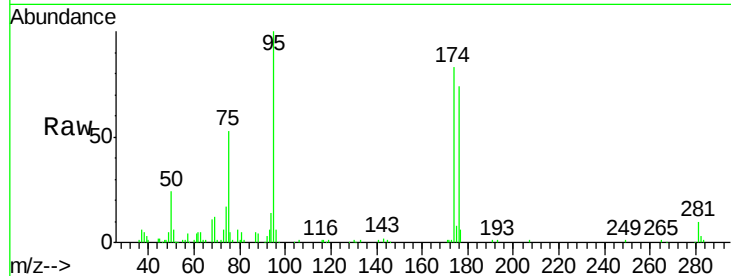




#62  
4-Bromofluorobenzene  
Concen: 16.23 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW003801.D  
Acq: 10 Jul 2018 03:15

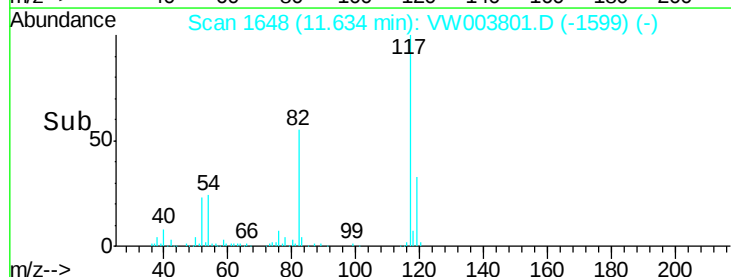
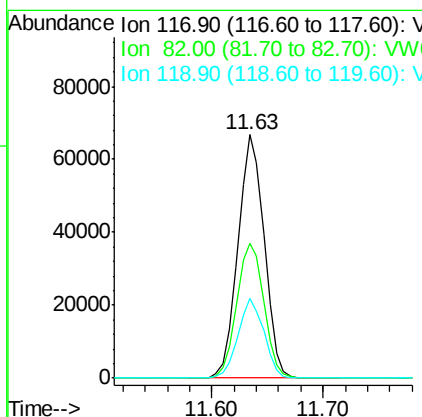
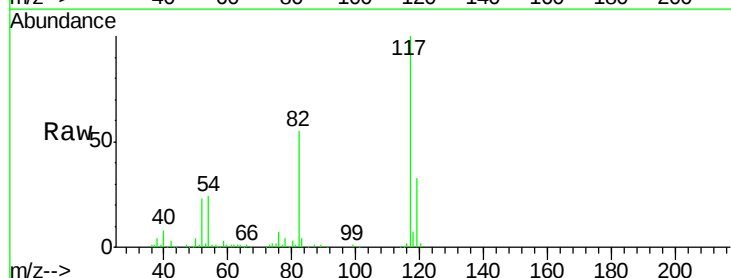
Instrument :  
MSVOA\_W  
ClientSampleId :  
SURCHARGE-SP-5

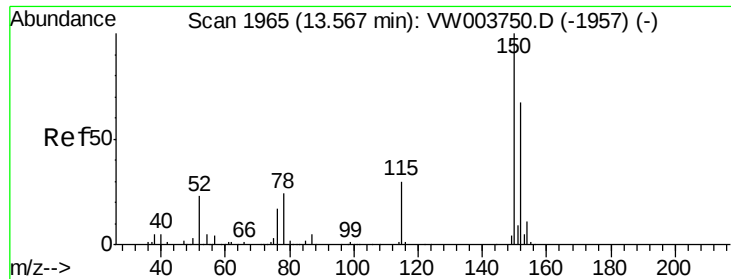
Tot Ion: 95 Resp: 26634  
Ion Ratio Lower Upper  
95 100  
174 86.3 0.0 163.4  
176 79.9 0.0 156.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003801.D  
Acq: 10 Jul 2018 03:15

Tgt Ion: 117 Resp: 109074  
Ion Ratio Lower Upper  
117 100  
82 55.3 46.9 70.3  
119 32.9 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW003801.D

Acq: 10 Jul 2018 03:15

Instrument :

MSVOA\_W

ClientSampleId :

SURCHARGE-SP-5

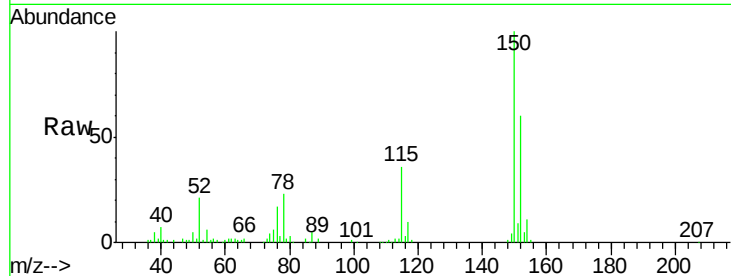
Tot Ion:152 Resp: 22566

Ion Ratio Lower Upper

152 100

115 60.1 28.9 86.8

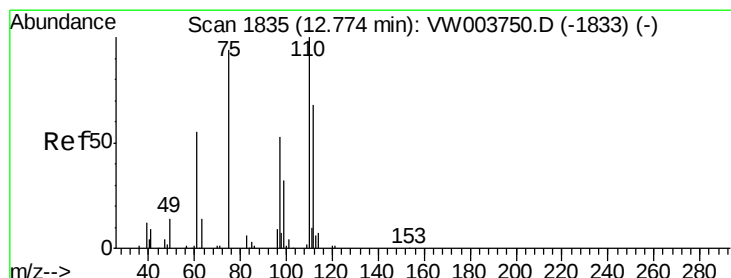
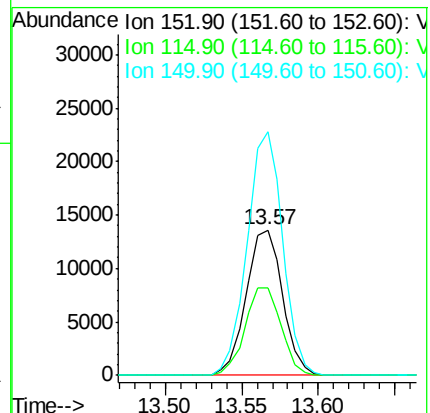
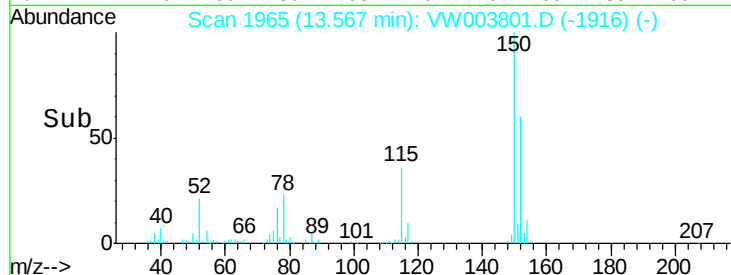
150 162.5 0.0 342.4



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: 65.70 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003801.D

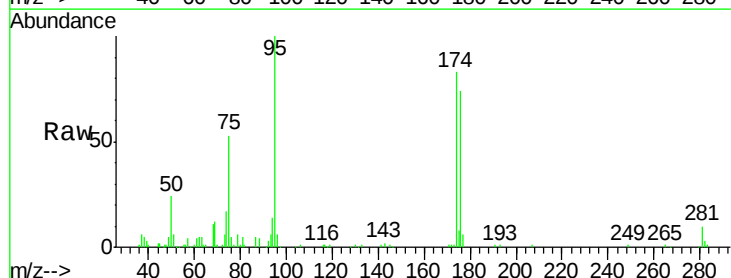
Acq: 10 Jul 2018 03:15

Tgt Ion: 75 Resp: 14558

Ion Ratio Lower Upper

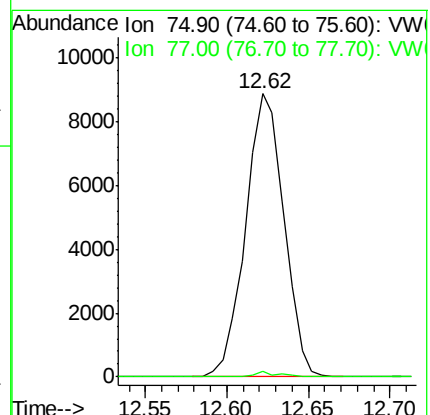
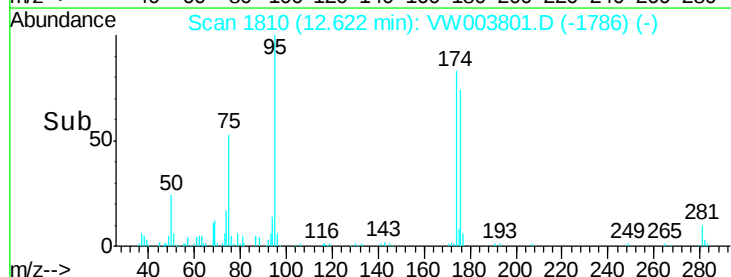
75 100

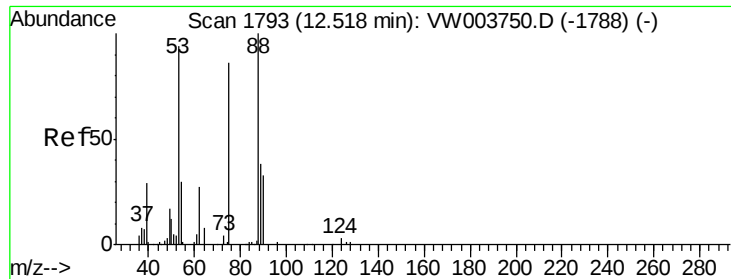
77 1.1 0.0 0.0#



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: 160.71 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. 0.10 min  
 Lab File: VW003801.D  
 Acq: 10 Jul 2018 03:15

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SURCHARGE-SP-5

Tot Ion: 75 Resp: 14558  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 85.0 127.6#  
 89 0.0 36.3 54.5#

