

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX122818\  
 Data File : VX006853.D  
 Acq On : 28 Dec 2018 11:40  
 Operator : JC/MD  
 Sample : J6584-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ENGINE-WASH

Quant Time: Dec 28 22:57:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 677955   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1005534  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 948881   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 482210   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 344286   | 47.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.24%  |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 303914   | 47.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.58%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 1199303  | 50.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.06% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 448468   | 51.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.16% |      |

## Target Compounds

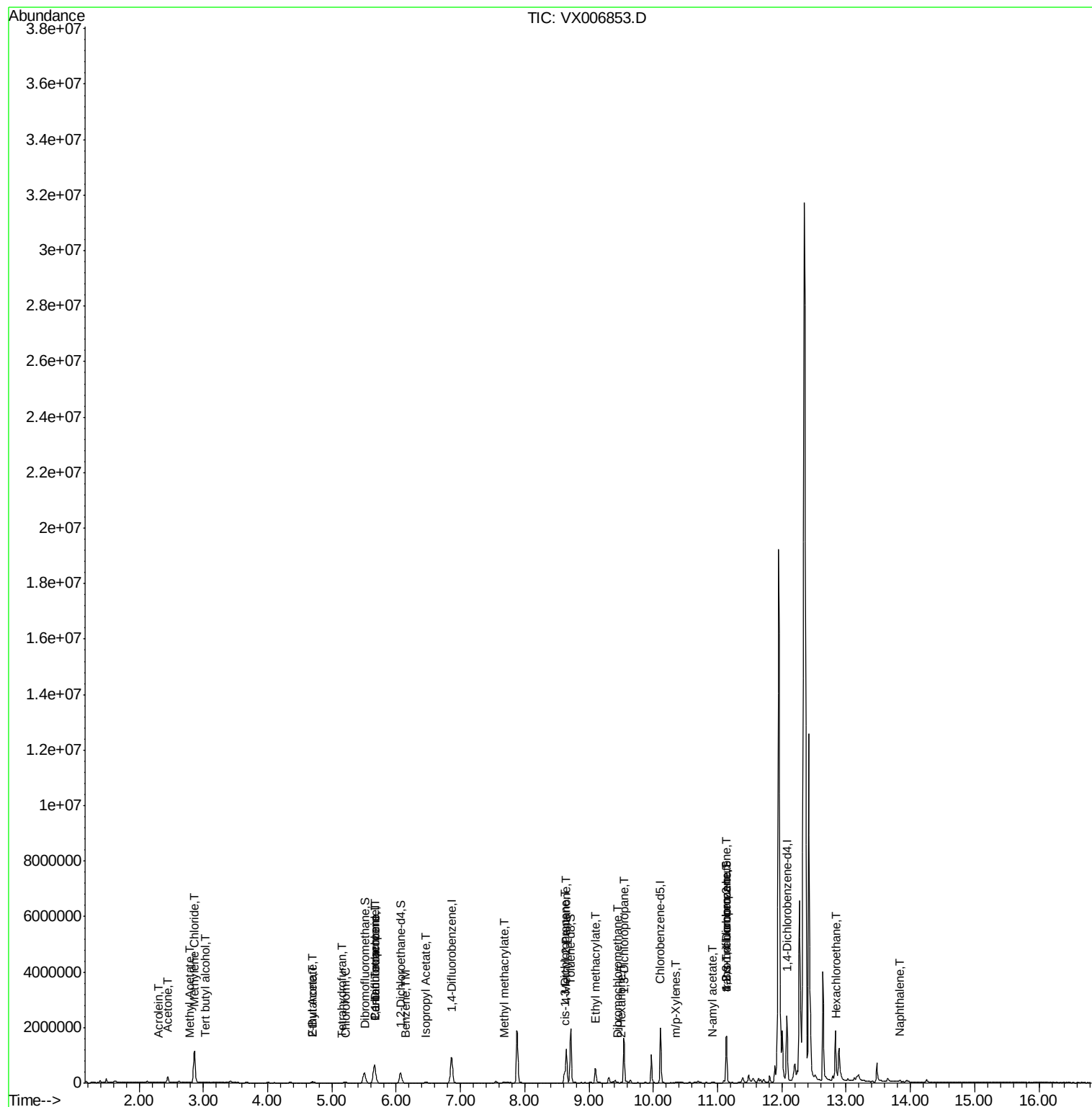
|                                |       |     |        |           | Qvalue |    |
|--------------------------------|-------|-----|--------|-----------|--------|----|
| 5) Bromomethane                | 1.64  | 94  | 1829   | Below Cal | #      | 74 |
| 11) Tert butyl alcohol         | 3.02  | 59  | 17071  | 10.469    | ug/l # | 77 |
| 13) Acrolein                   | 2.30  | 56  | 6540   | 5.945     | ug/l   | 95 |
| 16) Acetone                    | 2.45  | 43  | 214224 | 63.815    | ug/l   | 98 |
| 18) Methyl Acetate             | 2.78  | 43  | 6957   | 0.705     | ug/l # | 80 |
| 20) Methylene Chloride         | 2.86  | 84  | 541137 | 77.956    | ug/l   | 98 |
| 25) 2-Butanone                 | 4.70  | 43  | 85709  | 18.151    | ug/l   | 97 |
| 28) Bromochloromethane         | 5.00  | 49  | 468    | Below Cal | #      | 8  |
| 29) Tetrahydrofuran            | 5.15  | 42  | 3570   | 1.148     | ug/l # | 60 |
| 30) Chloroform                 | 5.21  | 83  | 14432  | 1.252     | ug/l   | 98 |
| 36) 1,1-Dichloropropene        | 5.66  | 75  | 42389  | 5.090     | ug/l # | 49 |
| 37) Ethyl Acetate              | 4.70  | 43  | 85709  | 9.888     | ug/l # | 67 |
| 38) Carbon Tetrachloride       | 5.66  | 117 | 60760  | 7.507     | ug/l # | 15 |
| 40) Benzene                    | 6.15  | 78  | 5261   | 0.208     | ug/l   | 93 |
| 43) Isopropyl Acetate          | 6.46  | 43  | 30295  | 2.297     | ug/l   | 97 |
| 48) Methyl methacrylate        | 7.69  | 41  | 20766  | 3.096     | ug/l # | 12 |
| 49) 1,4-Dioxane                | 7.73  | 88  | 211    | Below Cal | #      | 1  |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43  | 803338 | 95.730    | ug/l   | 93 |
| 54) cis-1,3-Dichloropropene    | 8.62  | 75  | 60198  | 6.800     | ug/l # | 68 |
| 56) Ethyl methacrylate         | 9.10  | 69  | 78300  | 8.276     | ug/l # | 58 |
| 57) 1,3-Dichloropropane        | 9.54  | 76  | 14498  | 1.346     | ug/l # | 45 |
| 59) 2-Hexanone                 | 9.49  | 43  | 8754   | 1.363     | ug/l   | 96 |
| 60) Dibromochloromethane       | 9.45  | 129 | 25     | 2.328     | ug/l   | 98 |
| 68) m/p-Xylenes                | 10.36 | 106 | 2704   | 0.209     | ug/l   | 99 |
| 74) N-amyl acetate             | 10.91 | 43  | 8411   | 0.712     | ug/l # | 45 |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75  | 207946 | 23.204    | ug/l # | 40 |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75  | 207946 | 68.872    | ug/l # | 10 |
| 90) Hexachloroethane           | 12.85 | 117 | 105    | 3.315     | ug/l   | 54 |
| 95) Naphthalene                | 13.83 | 128 | 30833  | 0.871     | ug/l # | 94 |

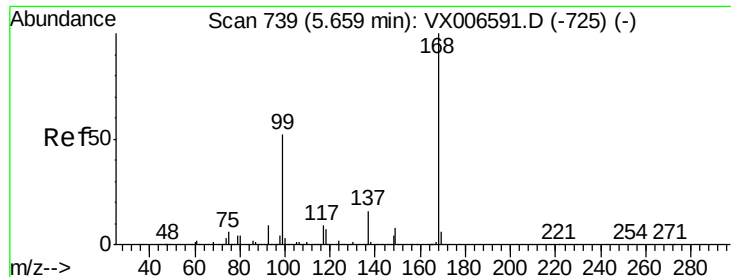
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX122818\  
Data File : VX006853.D  
Acq On : 28 Dec 2018 11:40  
Operator : JC/MD  
Sample : J6584-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ENGINE-WASH

Quant Time: Dec 28 22:57:13 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 19 15:20:58 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

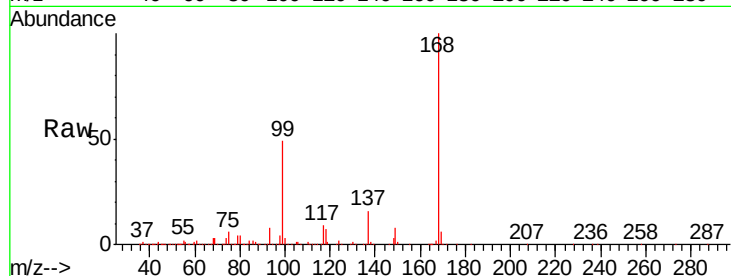
ENGINE-WASH

Tgt Ion:168 Resp: 677955

Ion Ratio Lower Upper

168 100

99 49.4 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

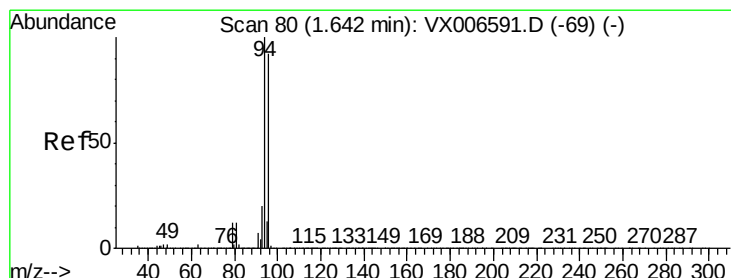
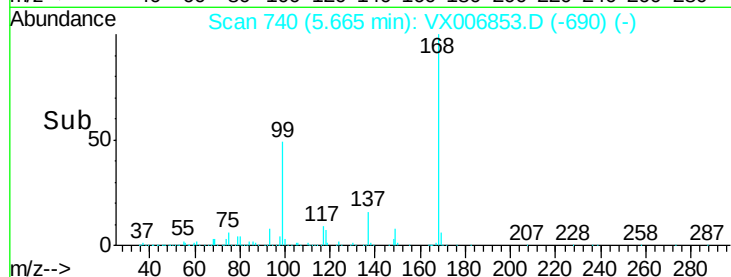
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006853.D

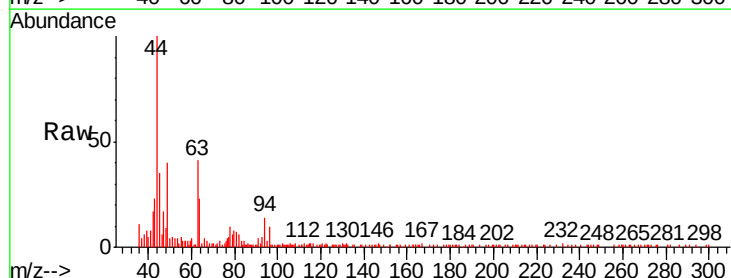
Acq: 28 Dec 2018 11:40

Tgt Ion: 94 Resp: 1829

Ion Ratio Lower Upper

94 100

96 67.1 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1500

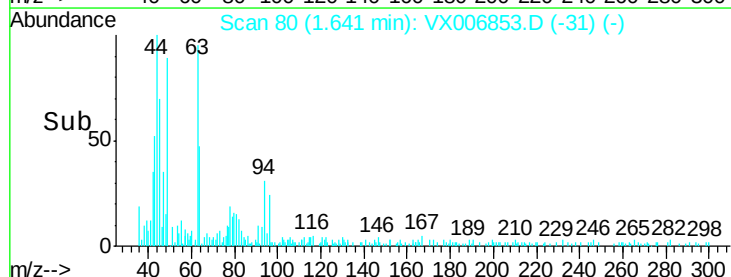
1000

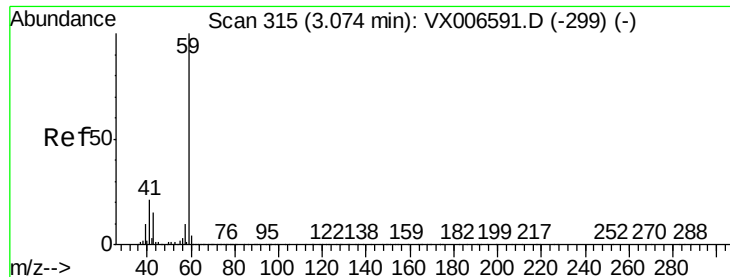
500

0

1.60 1.65 1.70

Time-->



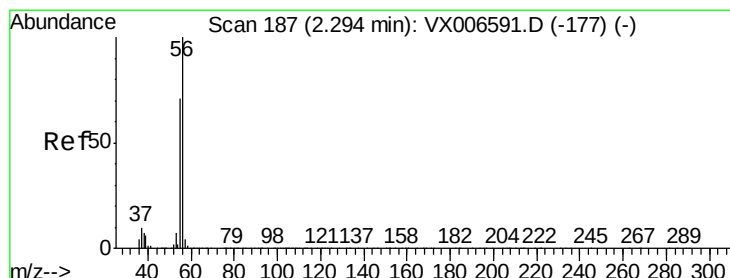
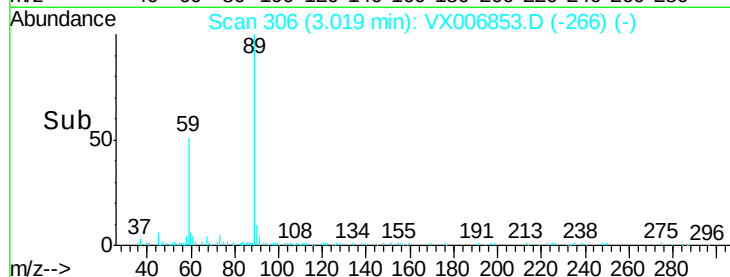
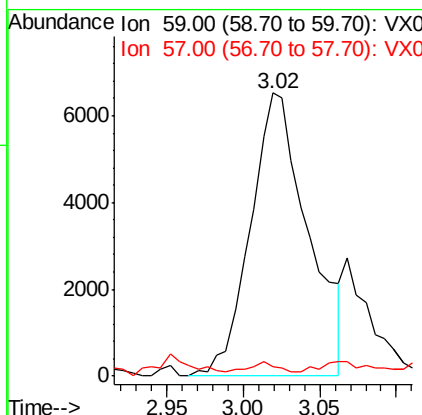
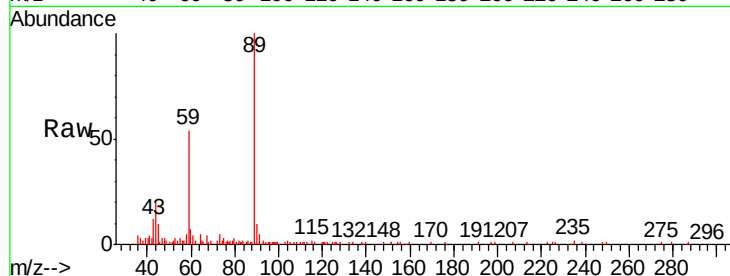


#11

Tert butyl alcohol  
 Concen: 10.469 ug/l  
 RT: 3.02 min Scan# 306  
 Delta R.T. -0.06 min  
 Lab File: VX006853.D  
 Acq: 28 Dec 2018 11:40

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ENGINE-WASH

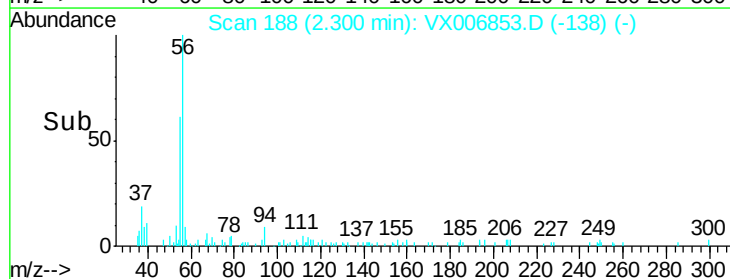
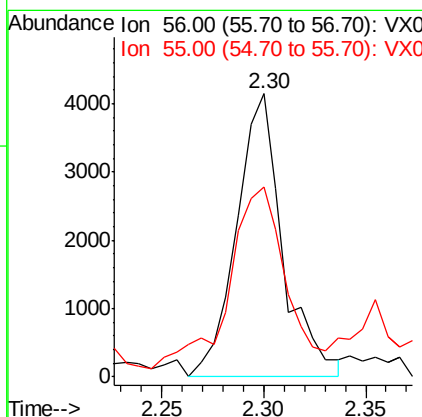
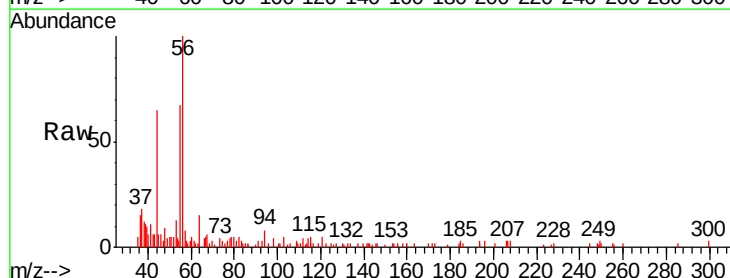
Tgt Ion: 59 Resp: 17071  
 Ion Ratio Lower Upper  
 59 100  
 57 1.9 8.5 12.7#

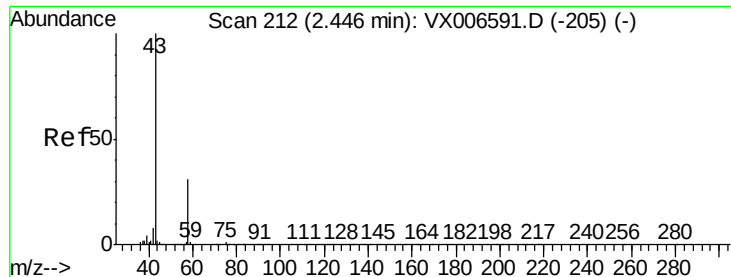


#13

Acrolein  
 Concen: 5.945 ug/l  
 RT: 2.30 min Scan# 188  
 Delta R.T. 0.01 min  
 Lab File: VX006853.D  
 Acq: 28 Dec 2018 11:40

Tgt Ion: 56 Resp: 6540  
 Ion Ratio Lower Upper  
 56 100  
 55 77.2 58.2 87.4





#16

Acetone

Concen: 63.815 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

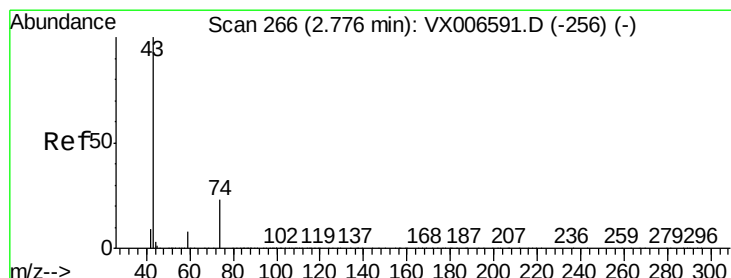
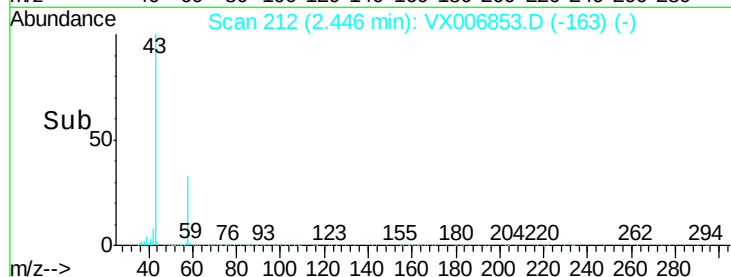
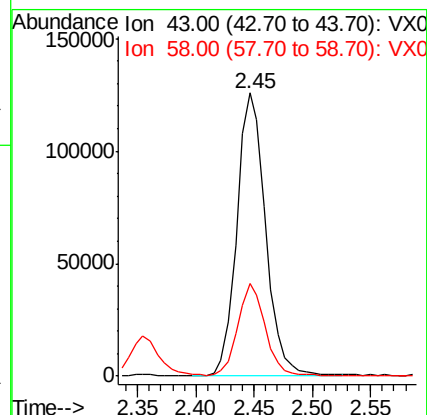
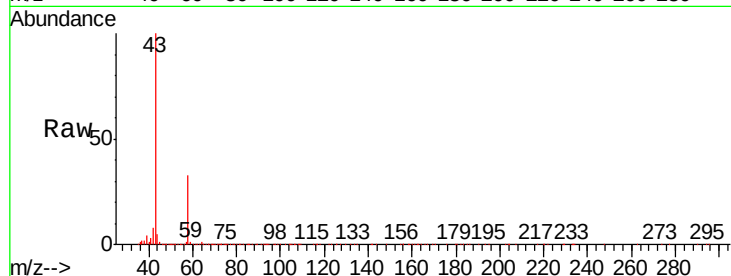
ENGINE-WASH

Tgt Ion: 43 Resp: 214224

Ion Ratio Lower Upper

43 100

58 32.5 25.0 37.6



#18

Methyl Acetate

Concen: 0.705 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX006853.D

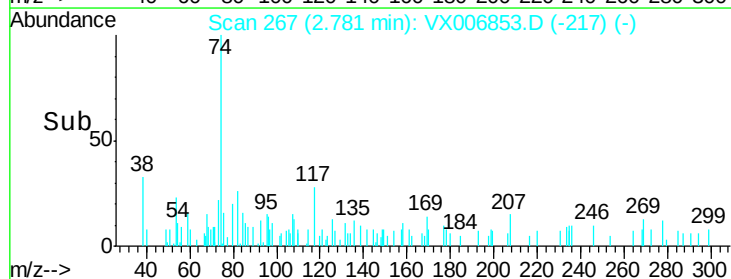
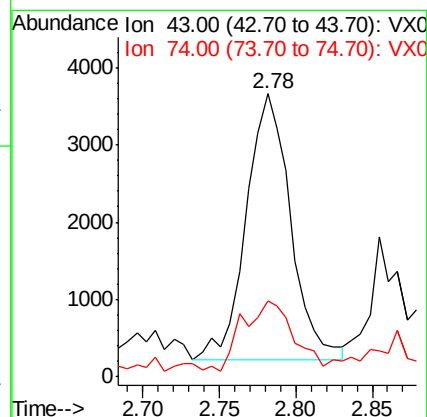
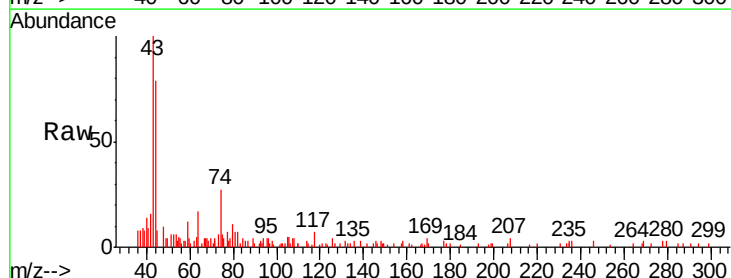
Acq: 28 Dec 2018 11:40

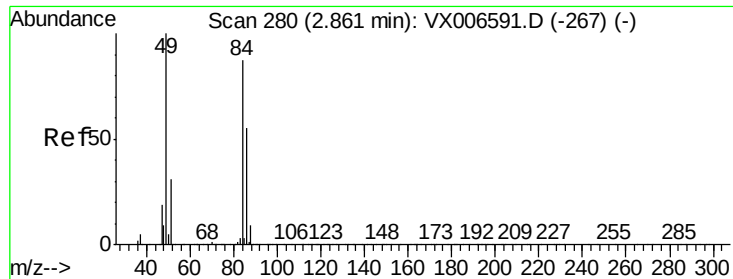
Tgt Ion: 43 Resp: 6957

Ion Ratio Lower Upper

43 100

74 32.9 18.6 28.0#

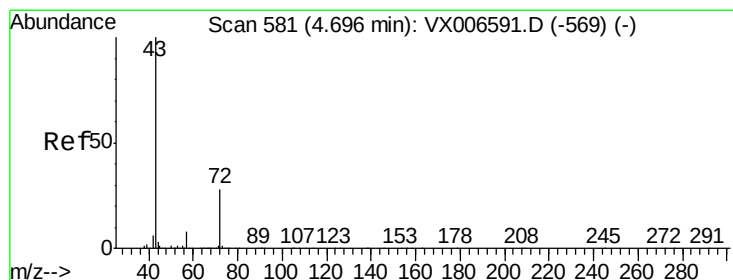
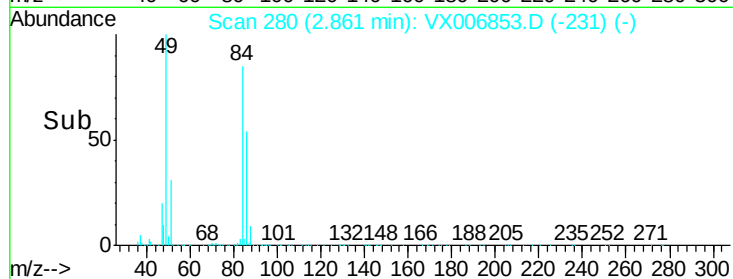
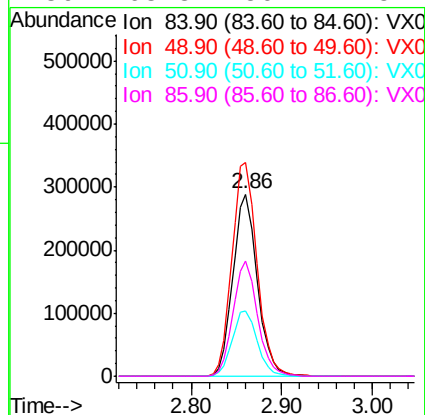
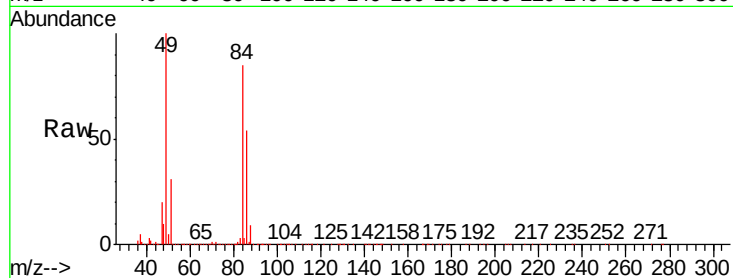




#20  
Methylene Chloride  
Concen: 77.956 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. -0.00 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

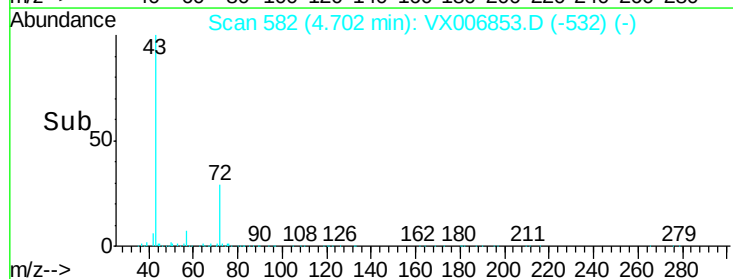
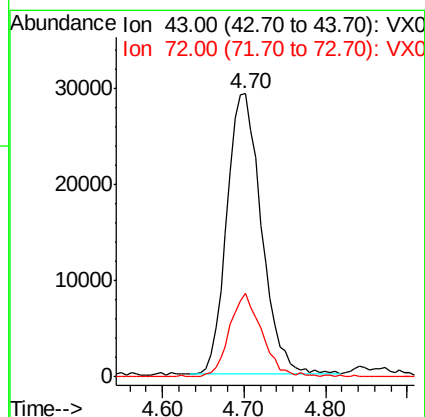
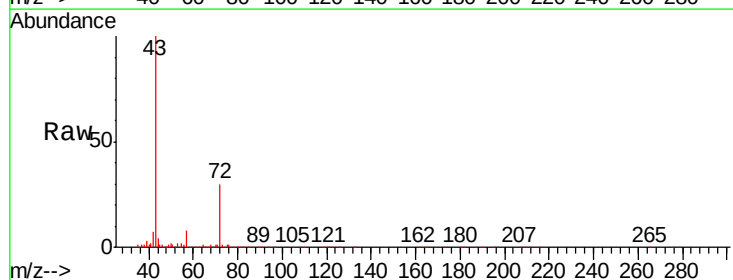
Instrument :  
MSVOA\_X  
ClientSampleId :  
ENGINE-WASH

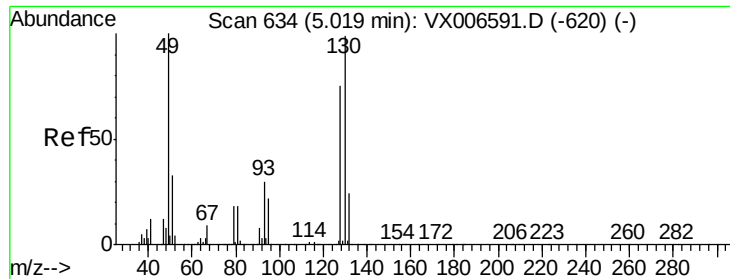
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 541137 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 117.5 | 91.8  | 137.6  |
| 51       | 35.9  | 28.5  | 42.7   |
| 86       | 63.3  | 50.2  | 75.2   |



#25  
2-Butanone  
Concen: 18.151 ug/l  
RT: 4.70 min Scan# 582  
Delta R.T. 0.01 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 85709 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 29.6  | 22.4  | 33.6  |





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.02 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampled :

ENGINE-WASH

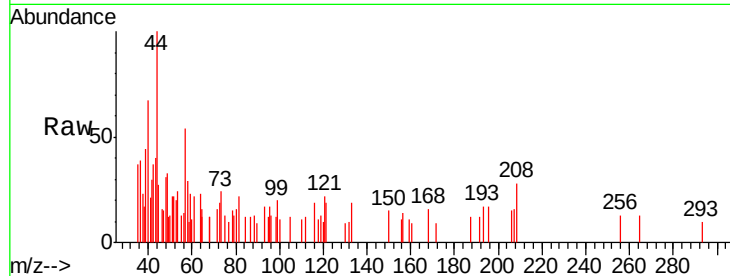
Tgt Ion: 49 Resp: 468

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

130 4.1 77.7 116.5#

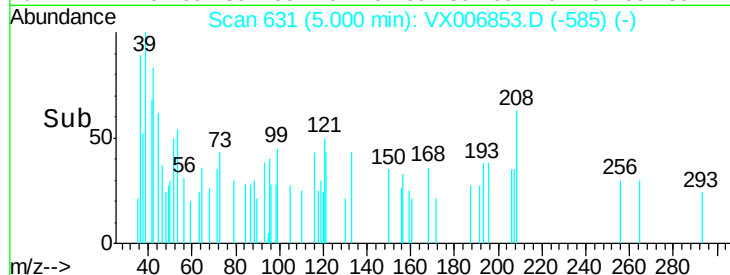


Abundance Ion 48.90 (48.60 to 49.60): VX0

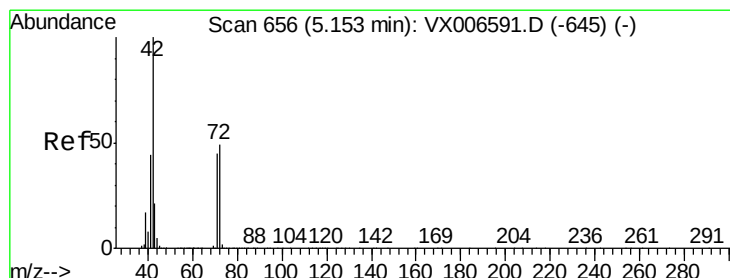
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

Time-->



Time-->



#29

Tetrahydrofuran

Concen: 1.148 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

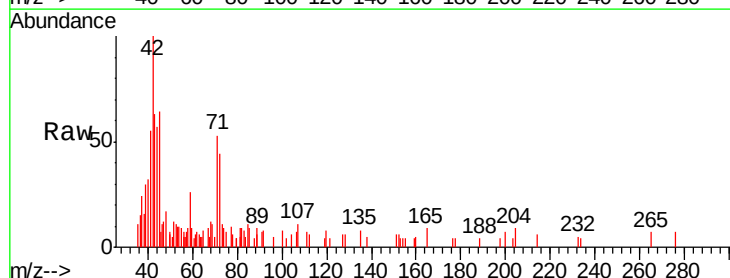
Tgt Ion: 42 Resp: 3570

Ion Ratio Lower Upper

42 100

72 83.1 38.9 58.3#

71 27.2 36.2 54.4#

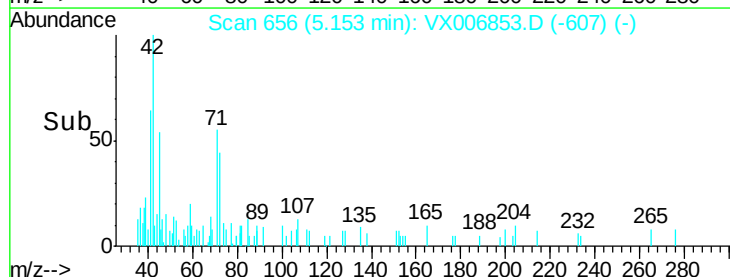


Abundance Ion 42.00 (41.70 to 42.70): VX0

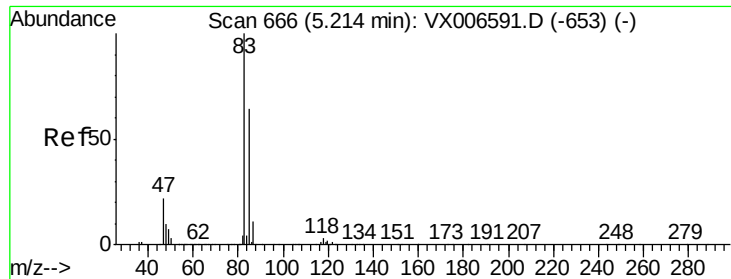
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

Time-->



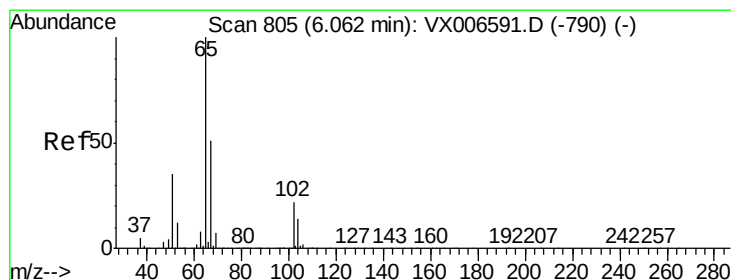
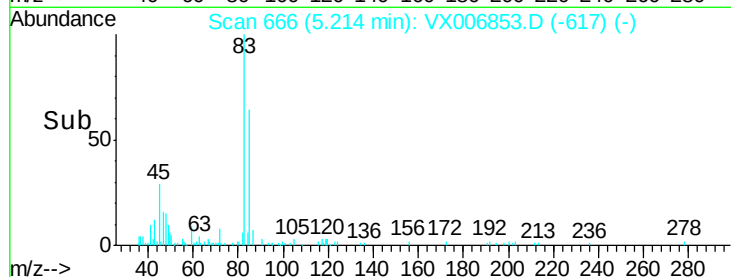
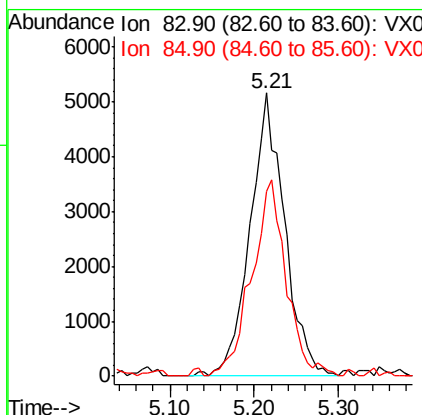
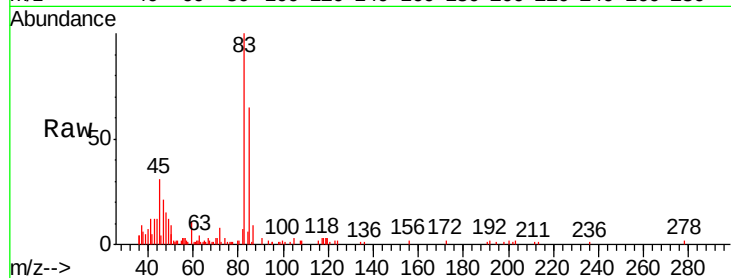
Time-->



#30  
Chloroform  
Concen: 1.252 ug/l  
RT: 5.21 min Scan# 666  
Delta R.T. -0.00 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

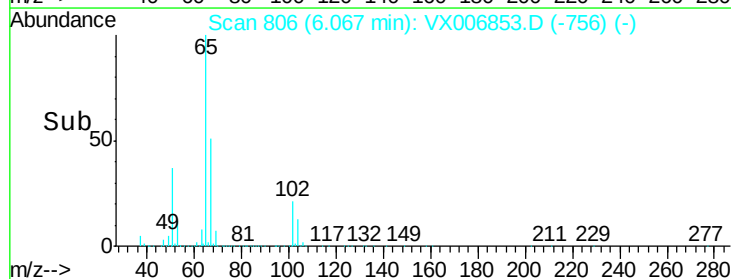
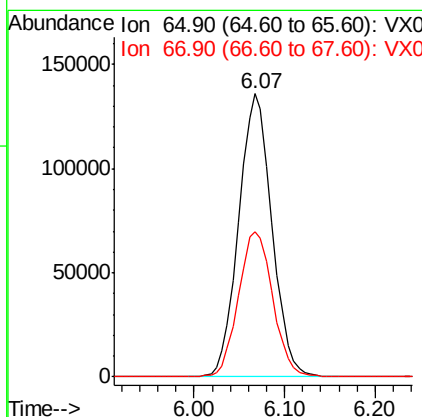
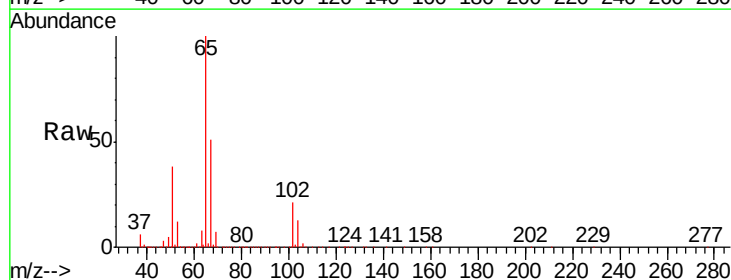
Instrument :  
MSVOA\_X  
ClientSampleId :  
ENGINE-WASH

Tgt Ion: 83 Resp: 14432  
Ion Ratio Lower Upper  
83 100  
85 65.4 51.2 76.8

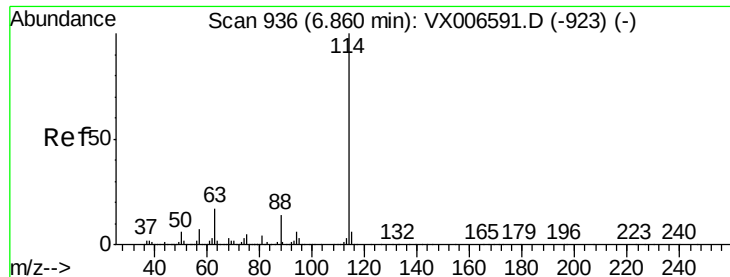


#33  
1,2-Dichloroethane-d4  
Concen: 47.119 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.01 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

Tgt Ion: 65 Resp: 344286  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 105.0







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

ENGINE-WASH

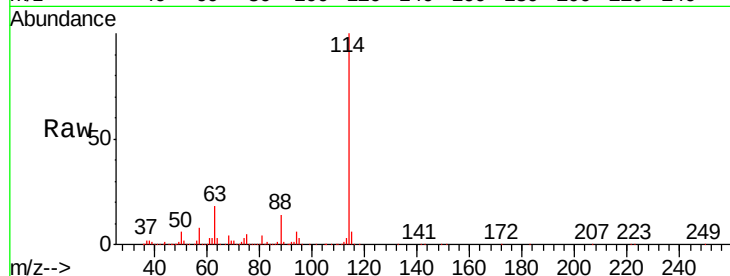
Tgt Ion:114 Resp: 1005534

Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.8

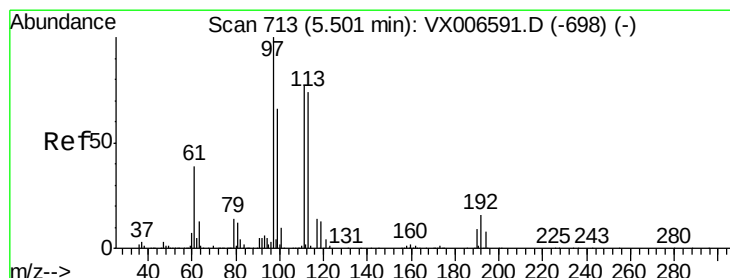
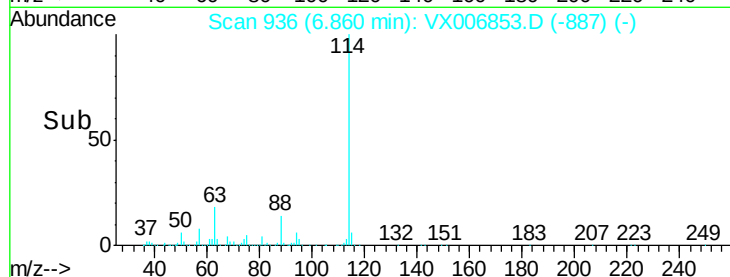
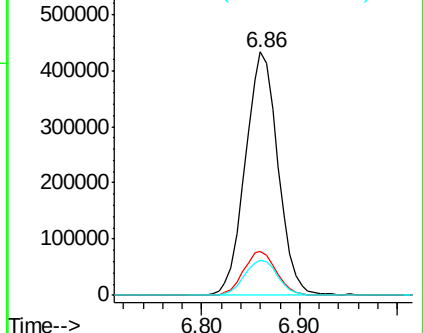
88 14.4 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.794 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

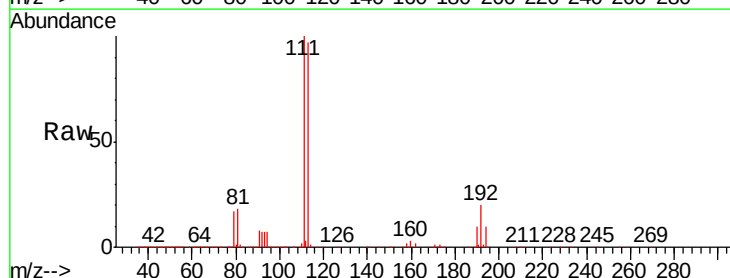
Tgt Ion:113 Resp: 303914

Ion Ratio Lower Upper

113 100

111 101.8 81.6 122.4

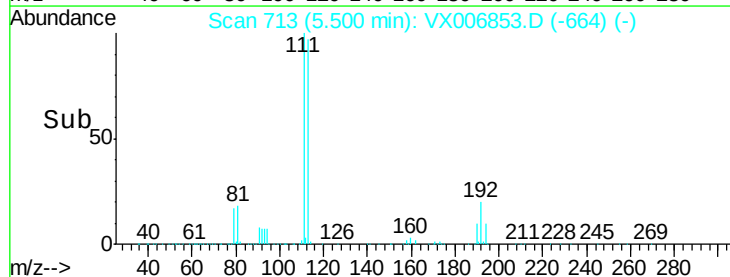
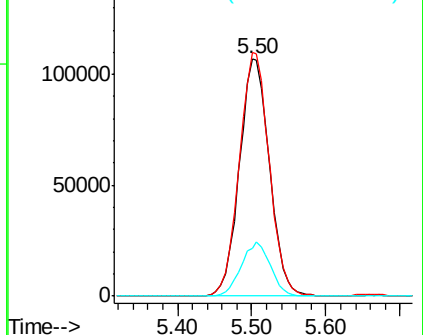
192 22.3 16.7 25.1

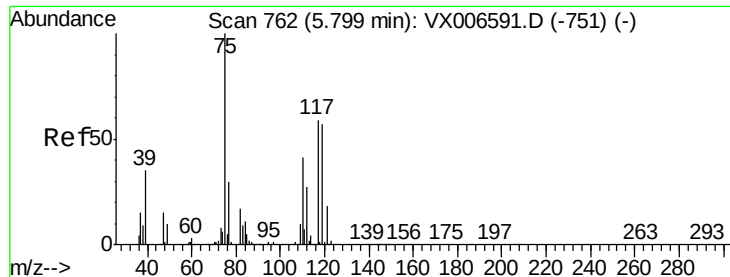


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.090 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

ENGINE-WASH

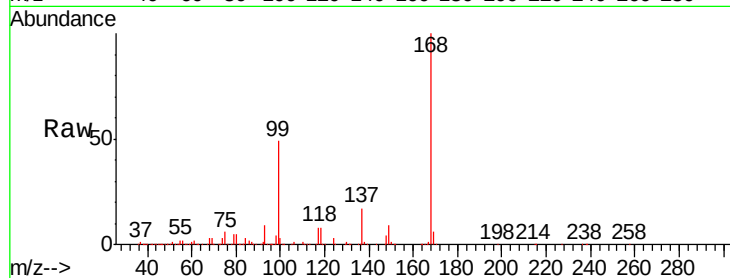
Tgt Ion: 75 Resp: 42389

Ion Ratio Lower Upper

75 100

110 10.9 20.2 60.5#

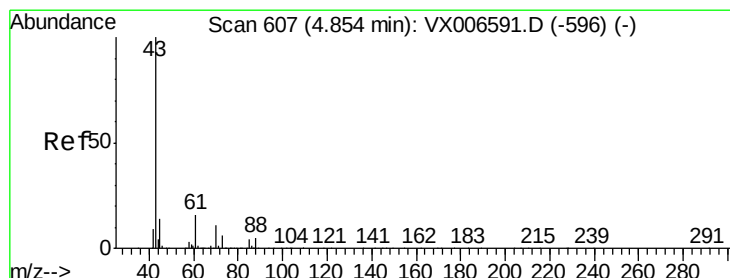
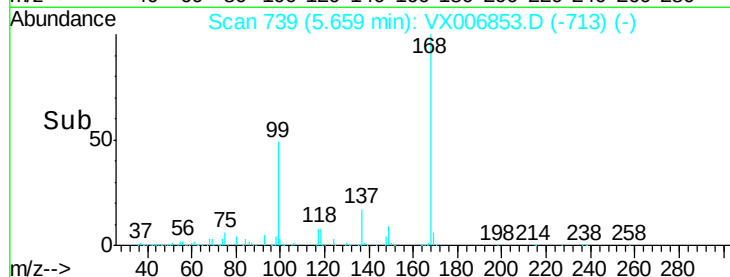
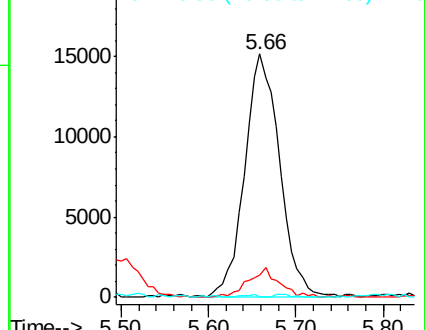
77 0.5 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 9.888 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.15 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

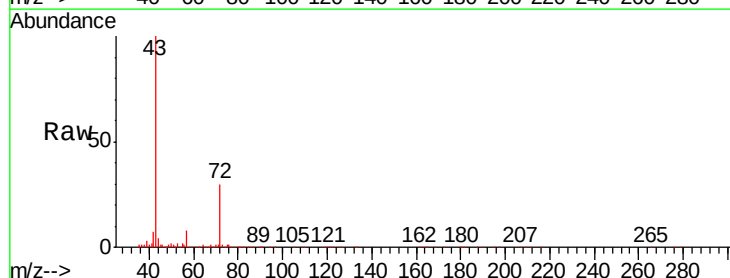
Tgt Ion: 43 Resp: 85709

Ion Ratio Lower Upper

43 100

61 0.0 11.9 17.9#

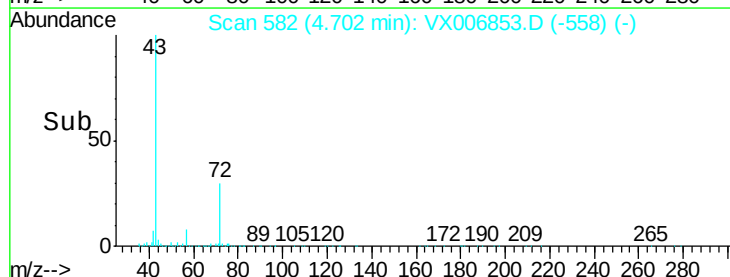
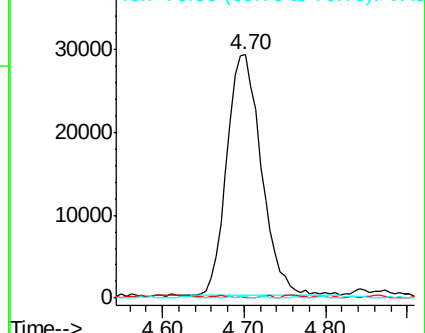
70 0.3 9.7 14.5#

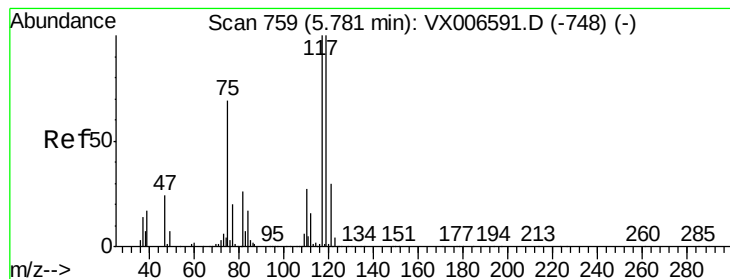


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 7.507 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

ENGINE-WASH

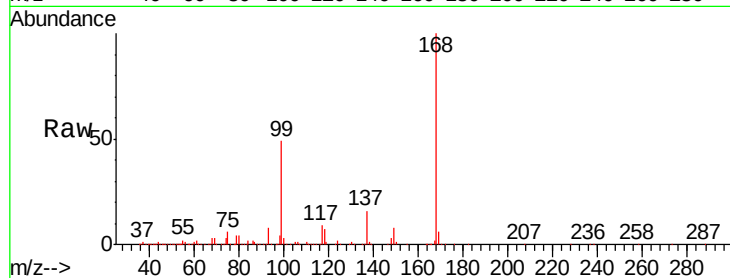
Tgt Ion:117 Resp: 60760

Ion Ratio Lower Upper

117 100

119 5.8 79.4 119.2#

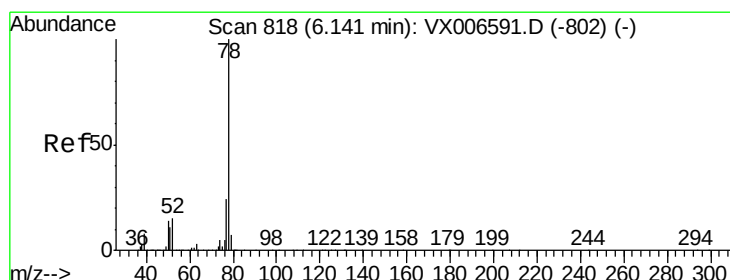
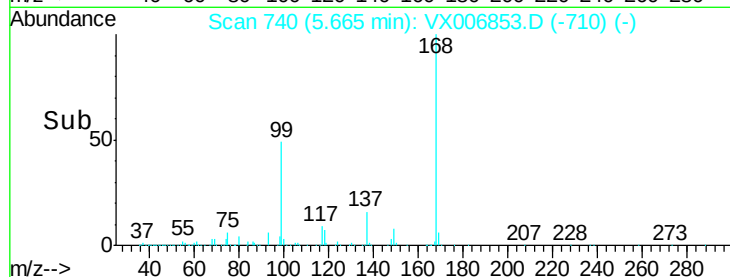
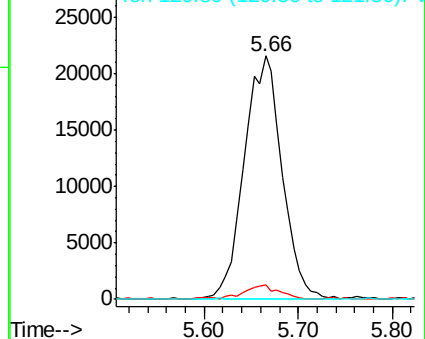
121 0.0 24.0 36.0#



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



#40

Benzene

Concen: 0.208 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX006853.D

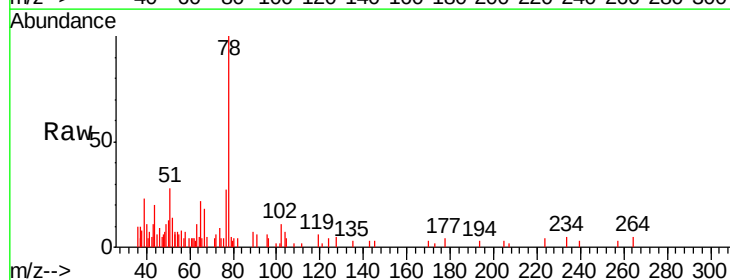
Acq: 28 Dec 2018 11:40

Tgt Ion: 78 Resp: 5261

Ion Ratio Lower Upper

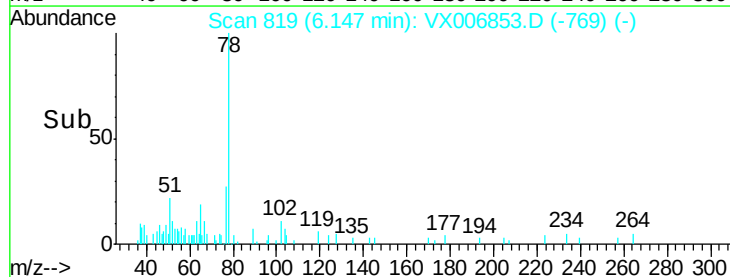
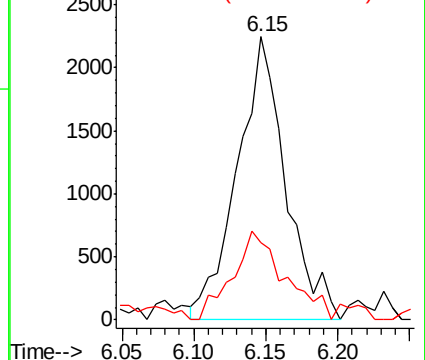
78 100

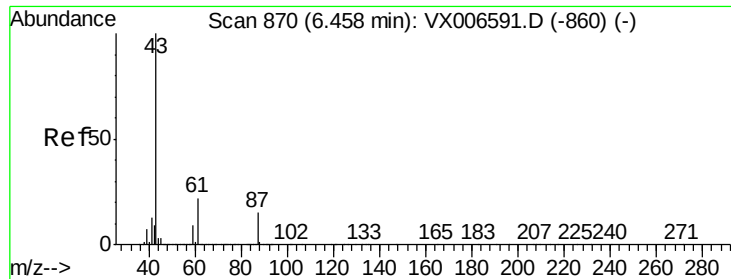
77 27.4 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 2.297 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

ENGINE-WASH

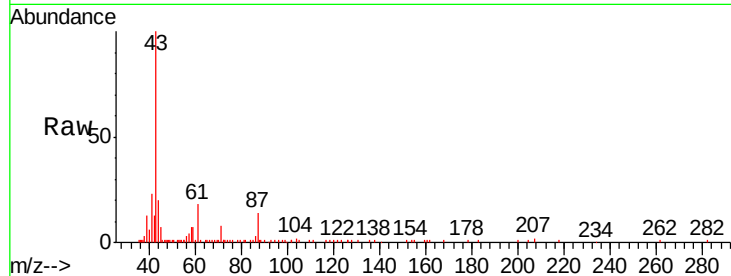
Tgt Ion: 43 Resp: 30295

Ion Ratio Lower Upper

43 100

61 19.7 16.8 25.2

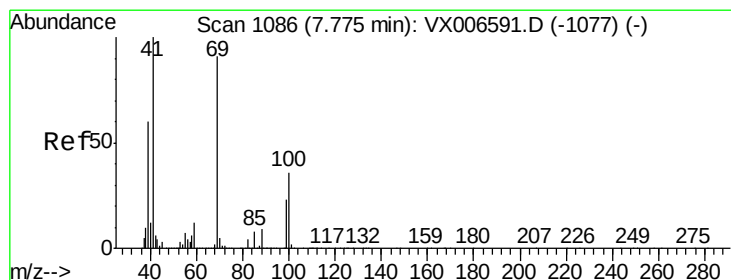
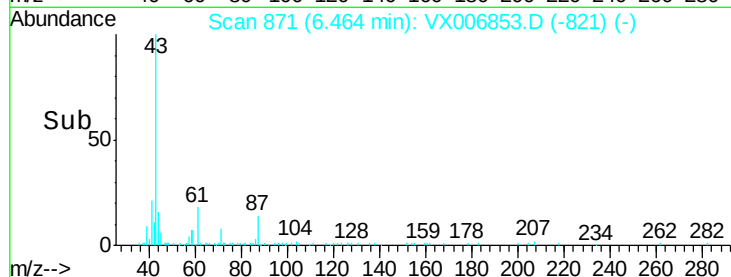
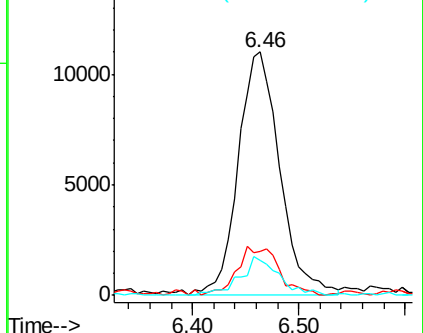
87 14.5 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 3.096 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

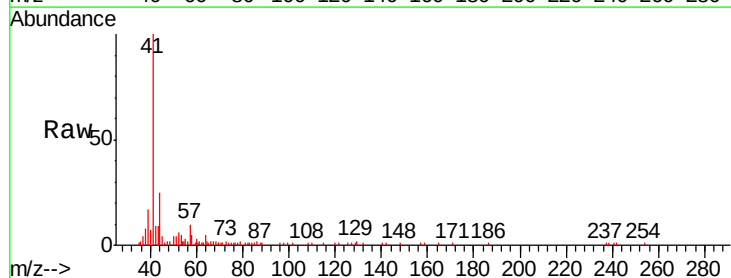
Tgt Ion: 41 Resp: 20766

Ion Ratio Lower Upper

41 100

69 1.1 72.4 108.6#

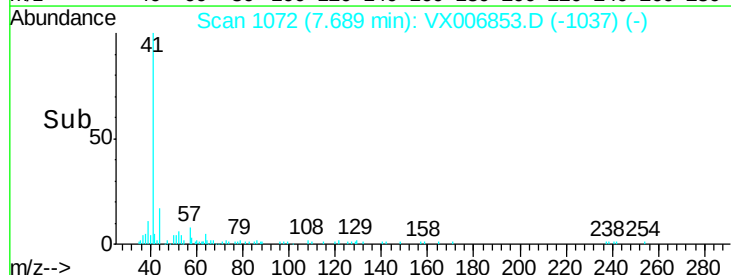
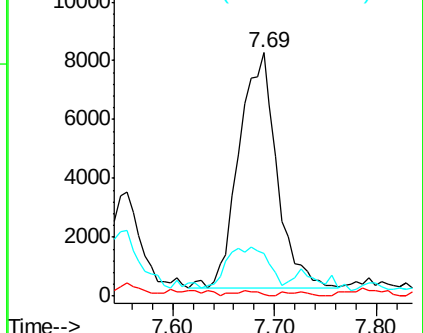
39 0.0 45.8 68.8#

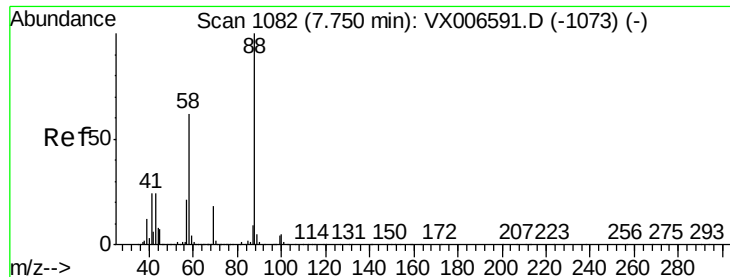


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

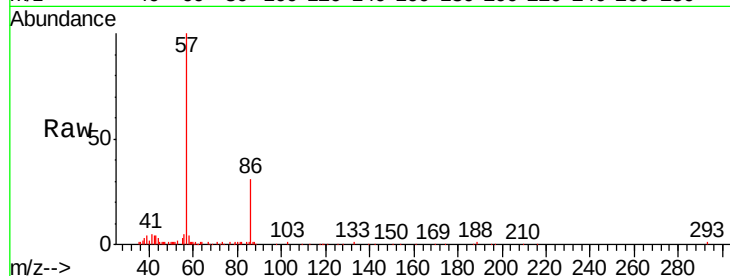




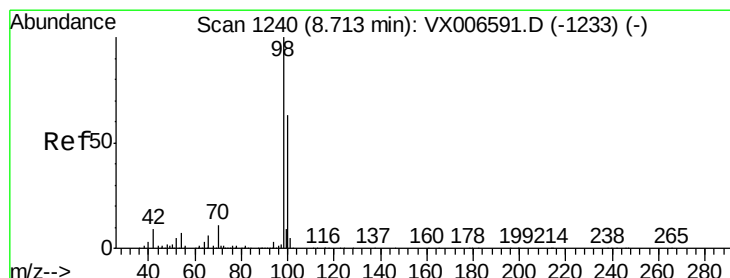
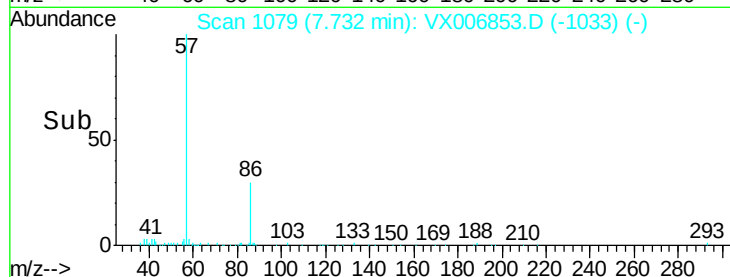
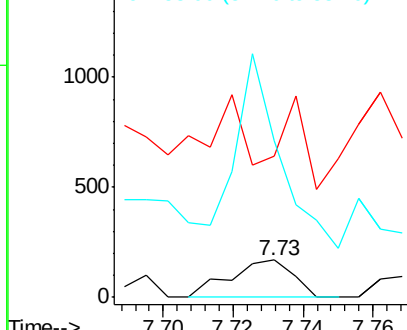
#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 7.73 min Scan# 1079  
Delta R.T. -0.02 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

Instrument :  
MSVOA\_X  
ClientSampled :  
ENGINE-WASH

Tgt Ion: 88 Resp: 211  
Ion Ratio Lower Upper  
88 100  
43 0.0 22.2 33.4#  
58 447.4 51.0 76.4#

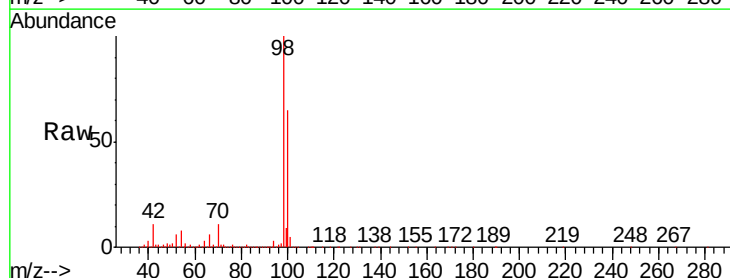


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

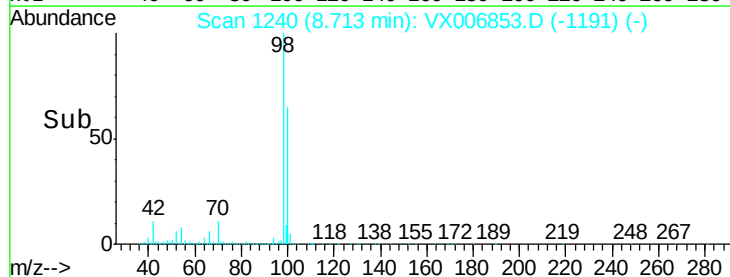
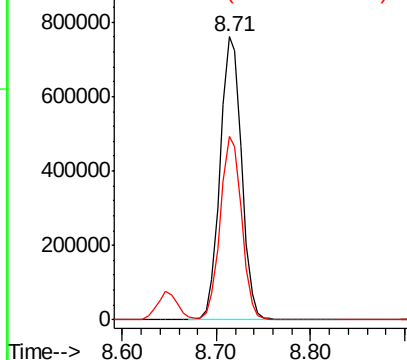


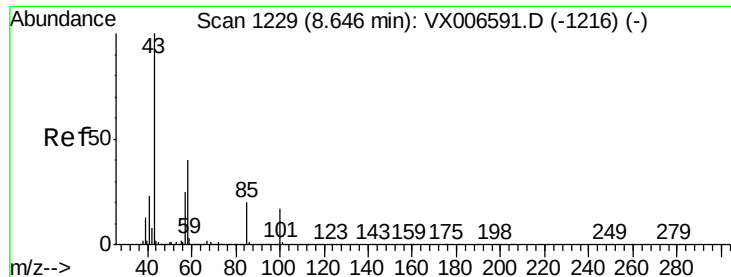
#50  
Toluene-d8  
Concen: 50.027 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

Tgt Ion: 98 Resp: 1199303  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): VX0

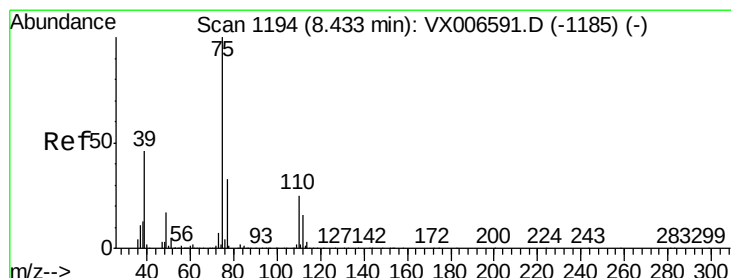
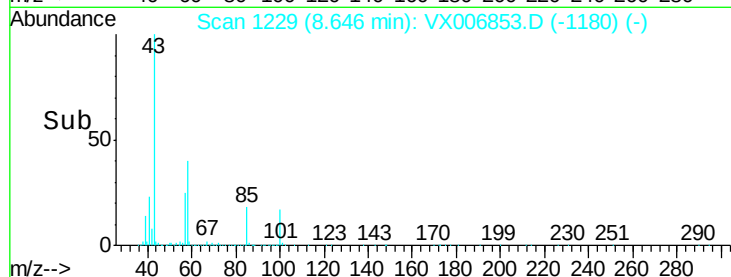
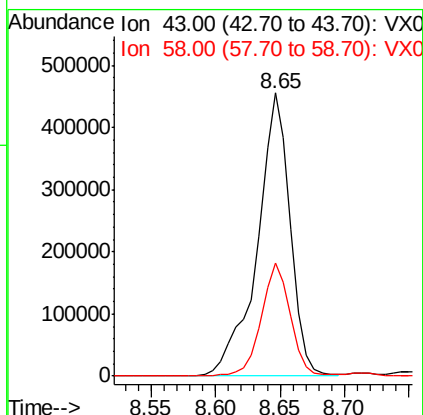
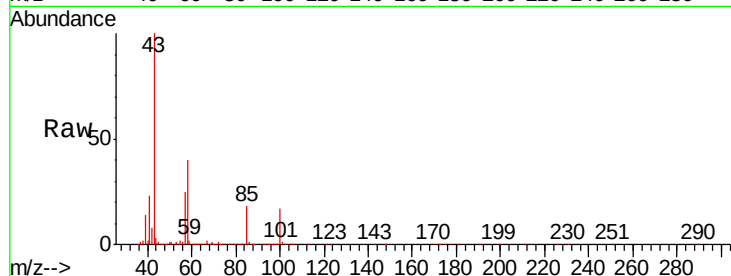




#51  
 4-Methyl-2-Pentanone  
 Concen: 95.730 ug/l  
 RT: 8.65 min Scan# 1229  
 Delta R.T. -0.00 min  
 Lab File: VX006853.D  
 Acq: 28 Dec 2018 11:40

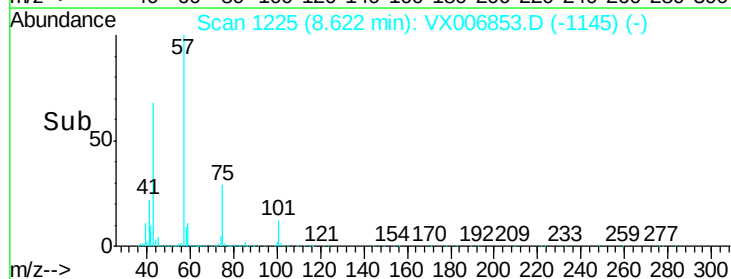
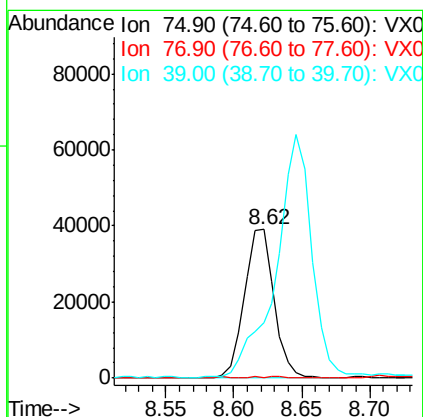
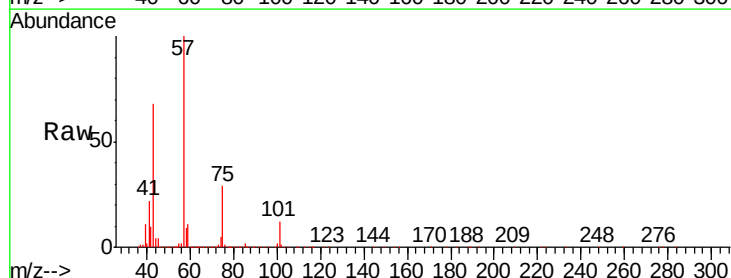
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ENGINE-WASH

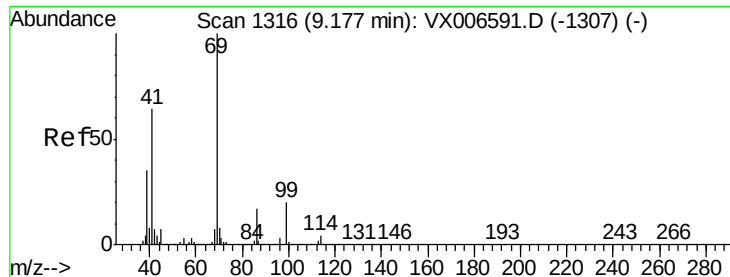
Tgt Ion: 43 Resp: 803338  
 Ion Ratio Lower Upper  
 43 100  
 58 35.2 31.8 47.6



#54  
 cis-1,3-Dichloropropene  
 Concen: 6.800 ug/l  
 RT: 8.62 min Scan# 1225  
 Delta R.T. 0.19 min  
 Lab File: VX006853.D  
 Acq: 28 Dec 2018 11:40

Tgt Ion: 75 Resp: 60198  
 Ion Ratio Lower Upper  
 75 100  
 77 0.2 26.2 39.2#  
 39 37.0 36.7 55.1





#56

Ethyl methacrylate

Concen: 8.276 ug/l

RT: 9.10 min Scan# 1303

Delta R.T. -0.08 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

ENGINE-WASH

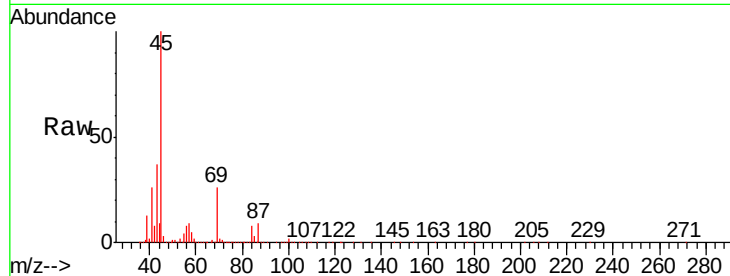
Tgt Ion: 69 Resp: 78300

Ion Ratio Lower Upper

69 100

41 99.4 48.7 73.1#

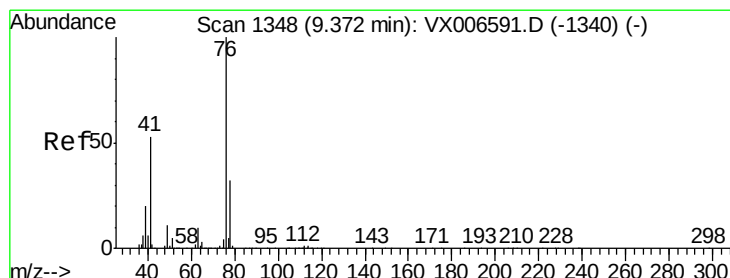
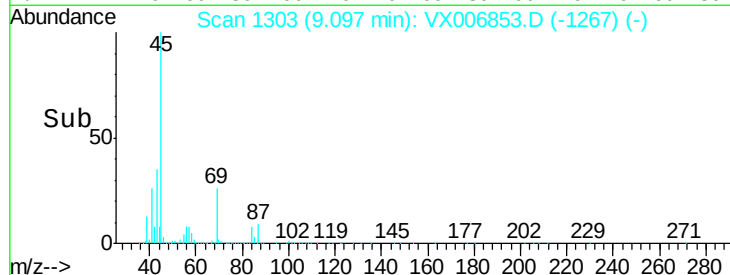
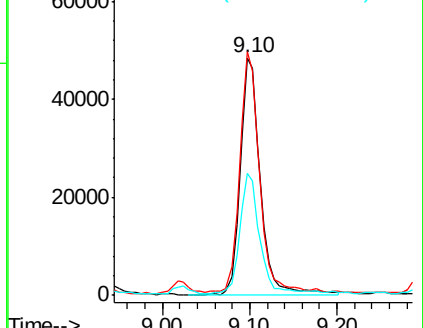
39 48.8 27.0 40.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.346 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006853.D

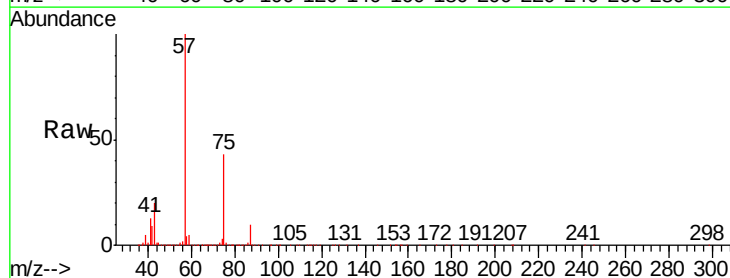
Acq: 28 Dec 2018 11:40

Tgt Ion: 76 Resp: 14498

Ion Ratio Lower Upper

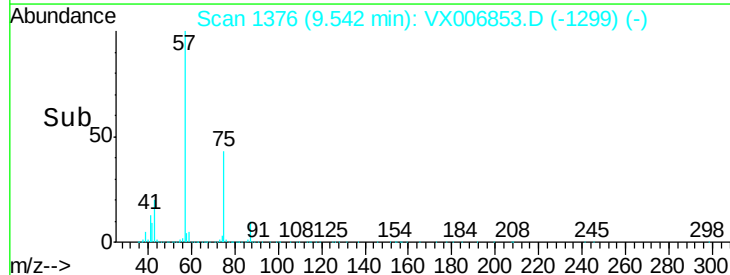
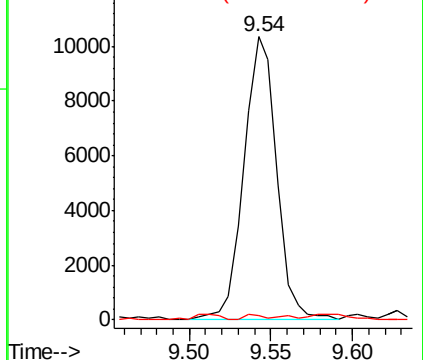
76 100

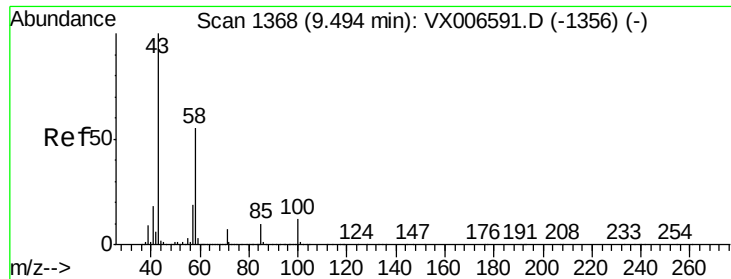
78 1.5 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

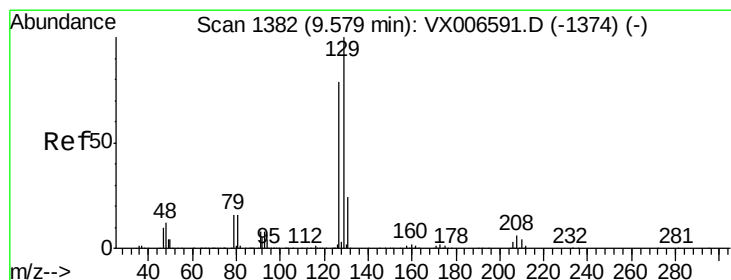
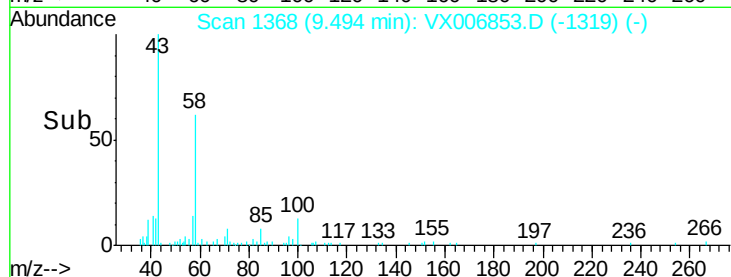
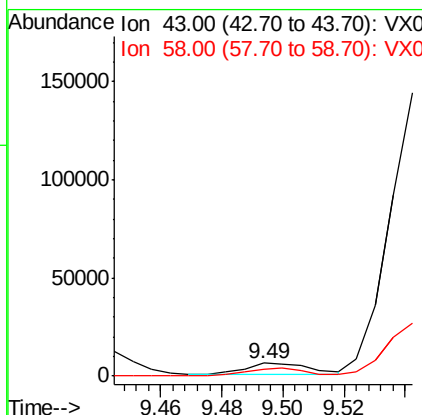
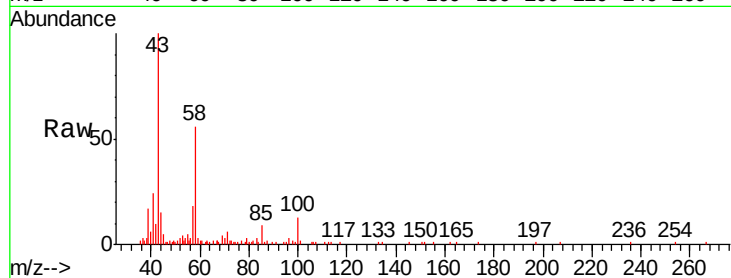




#59  
2-Hexanone  
Concen: 1.363 ug/l  
RT: 9.49 min Scan# 1368  
Delta R.T. -0.00 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

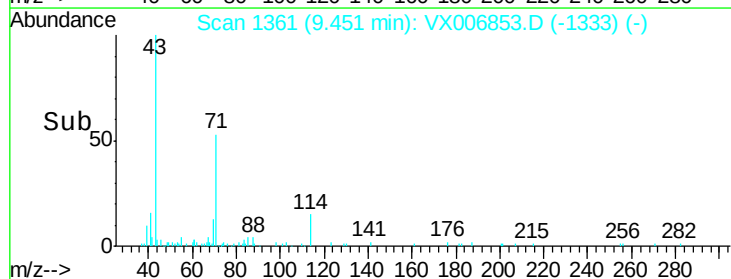
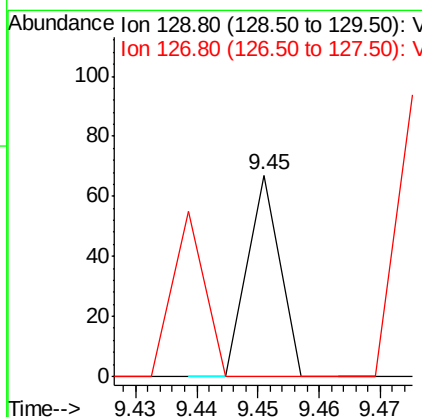
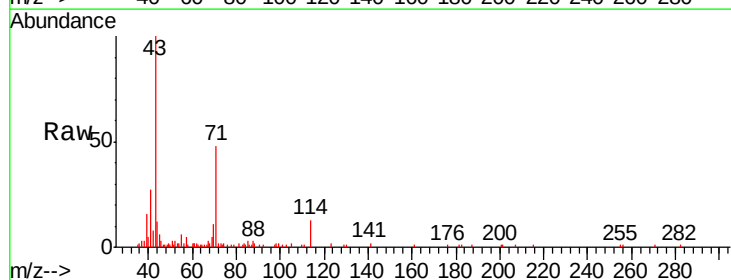
Instrument :  
MSVOA\_X  
ClientSampleId :  
ENGINE-WASH

Tgt Ion: 43 Resp: 8754  
Ion Ratio Lower Upper  
43 100  
58 58.3 27.7 83.1

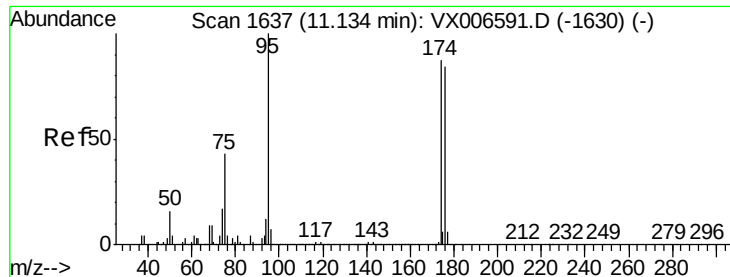


#60  
Dibromochloromethane  
Concen: 2.328 ug/l  
RT: 9.45 min Scan# 1361  
Delta R.T. -0.13 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

Tgt Ion: 129 Resp: 25  
Ion Ratio Lower Upper  
129 100  
127 80.0 39.3 117.8



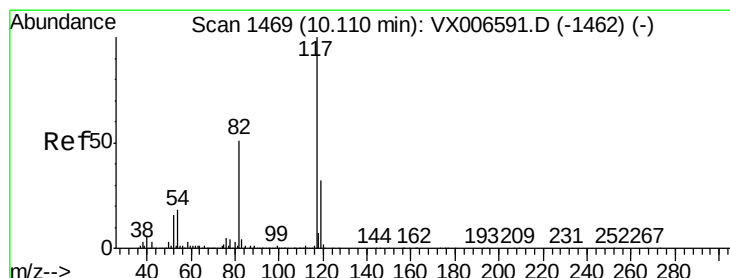
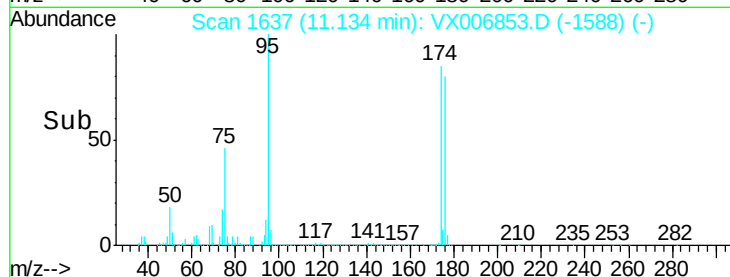
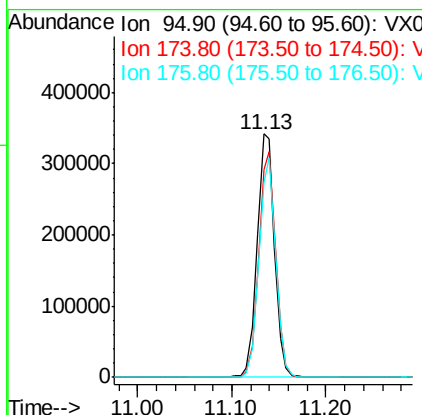
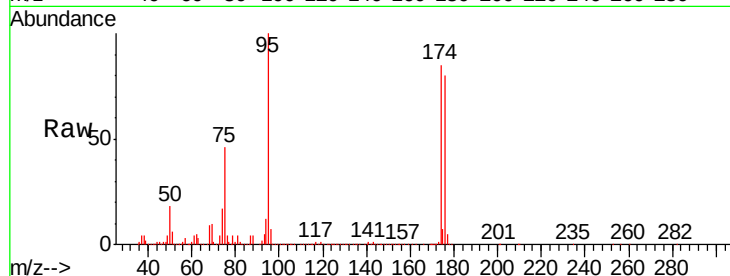




#62  
4-Bromofluorobenzene  
Concen: 51.079 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

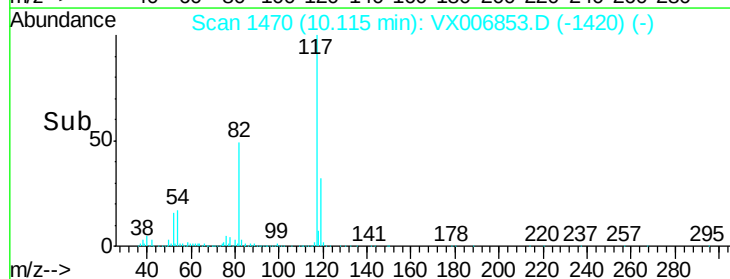
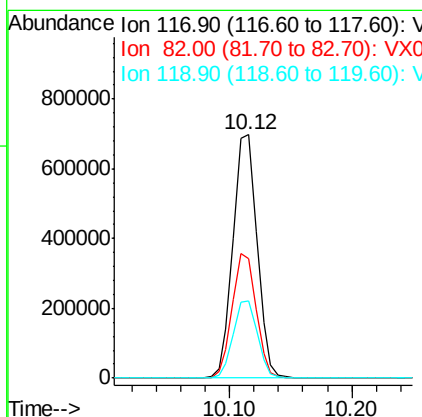
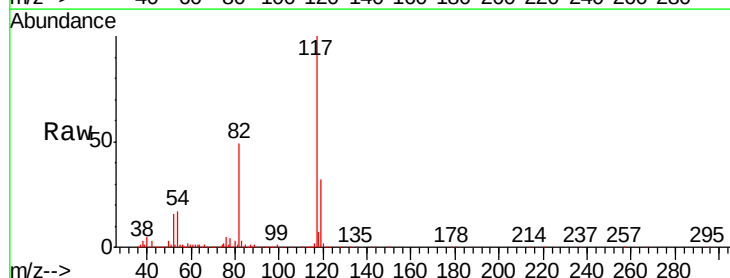
Instrument :  
MSVOA\_X  
ClientSampleId :  
ENGINE-WASH

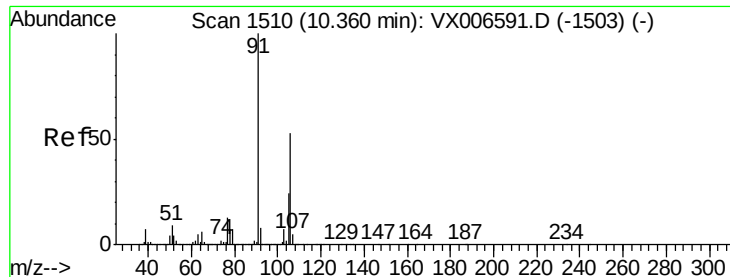
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 90.4  | 0.0   | 182.2 |
| 176     | 87.1  | 0.0   | 178.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.1  | 41.0  | 61.6  |
| 119     | 31.6  | 25.4  | 38.0  |

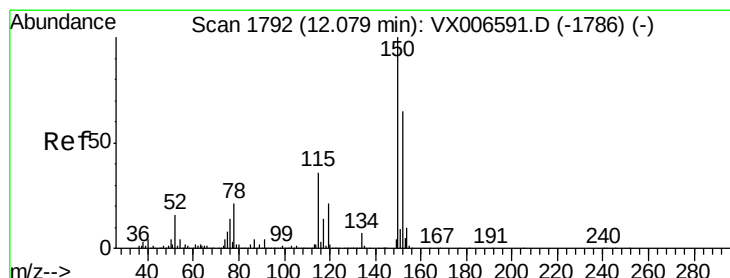
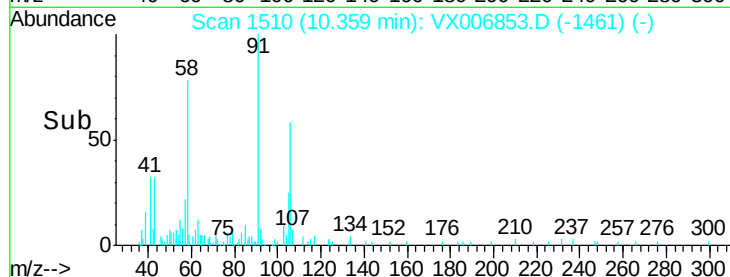
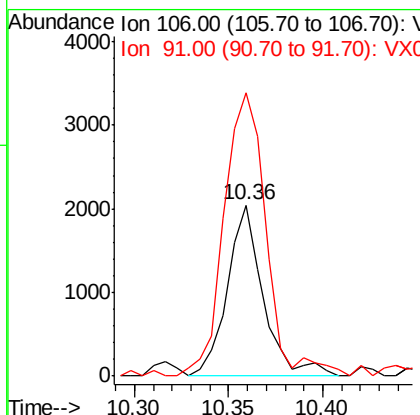
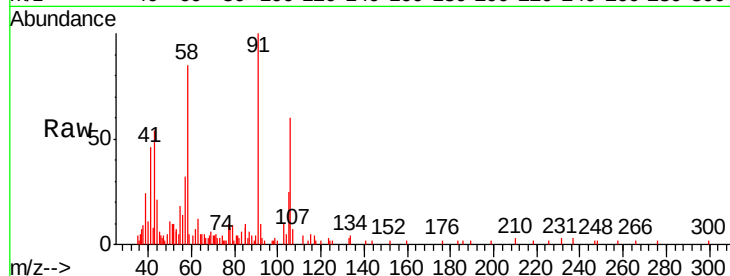




#68  
m/p-Xylenes  
Concen: 0.209 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. -0.00 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

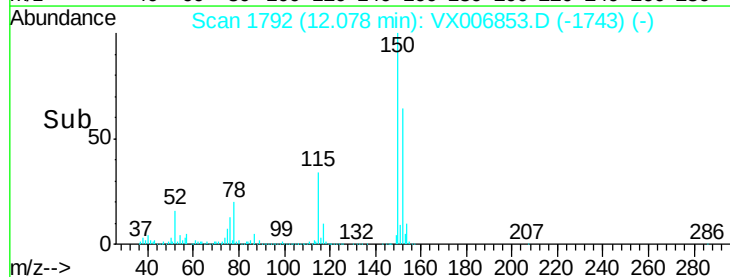
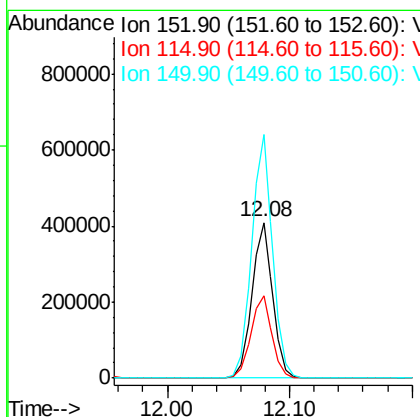
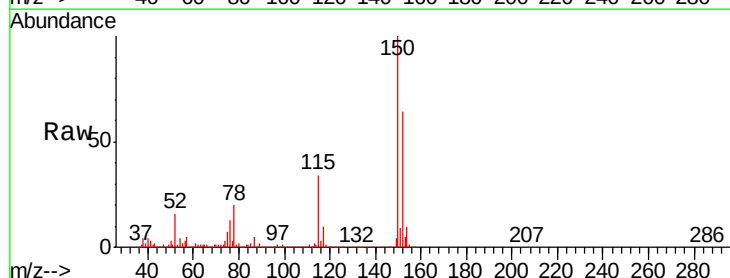
Instrument :  
MSVOA\_X  
ClientSampleId :  
ENGINE-WASH

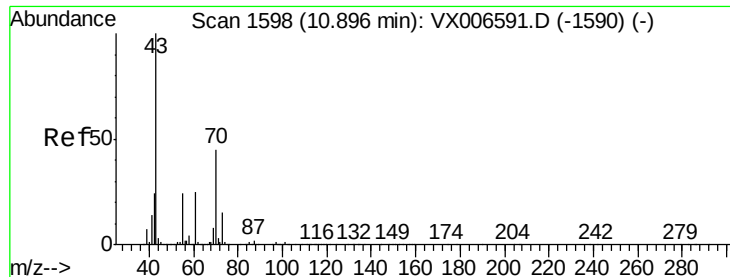
Tgt Ion:106 Resp: 2704  
Ion Ratio Lower Upper  
106 100  
91 193.4 155.8 233.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

Tgt Ion:152 Resp: 482210  
Ion Ratio Lower Upper  
152 100  
115 53.6 39.1 117.2  
150 157.1 0.0 344.8





#74

N-amyI acetate

Concen: 0.712 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.02 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

ENGINE-WASH

Tgt Ion: 43 Resp: 8411

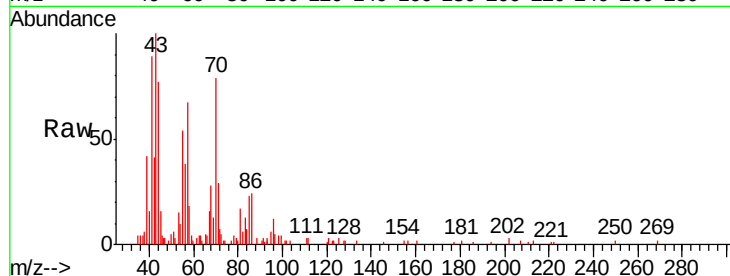
Ion Ratio Lower Upper

43 100

70 69.4 35.8 53.8#

55 69.6 19.4 29.0#

61 0.0 20.1 30.1#

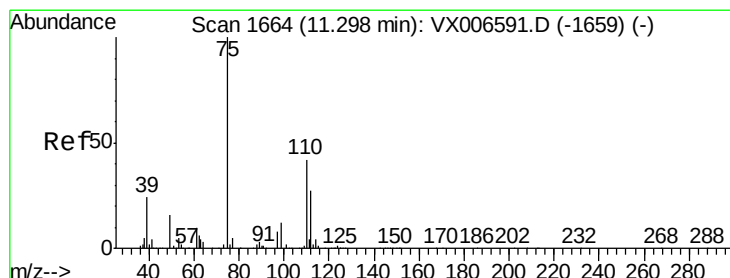
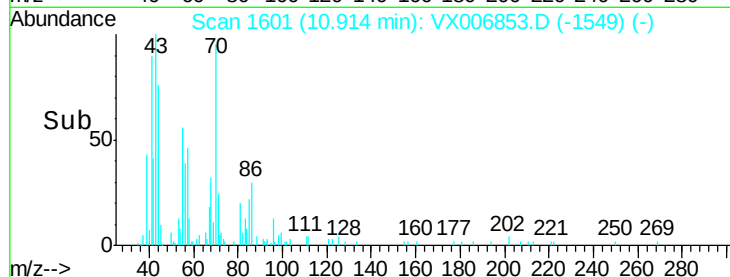
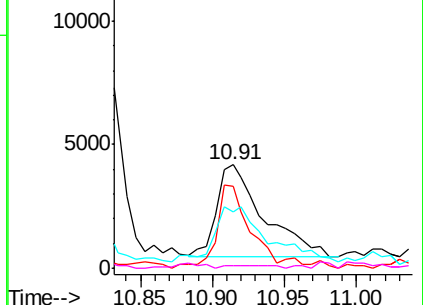


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.204 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006853.D

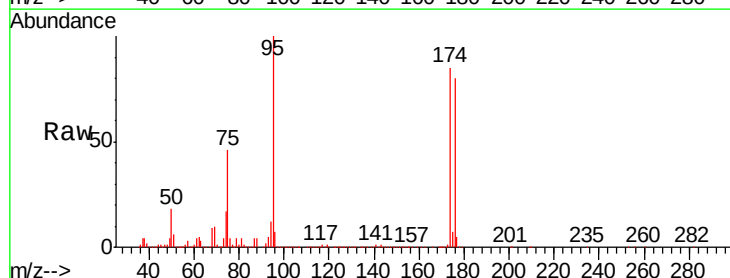
Acq: 28 Dec 2018 11:40

Tgt Ion: 75 Resp: 207946

Ion Ratio Lower Upper

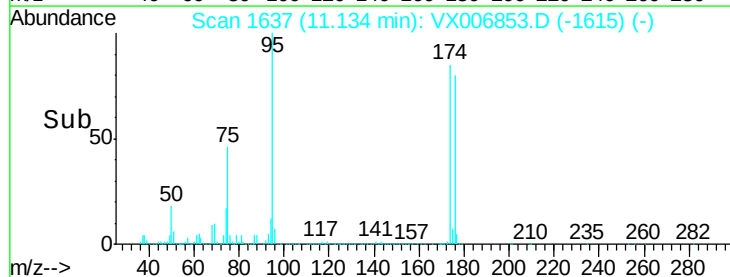
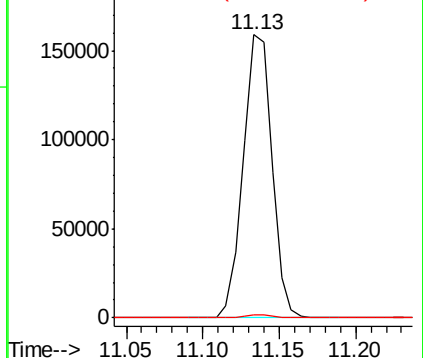
75 100

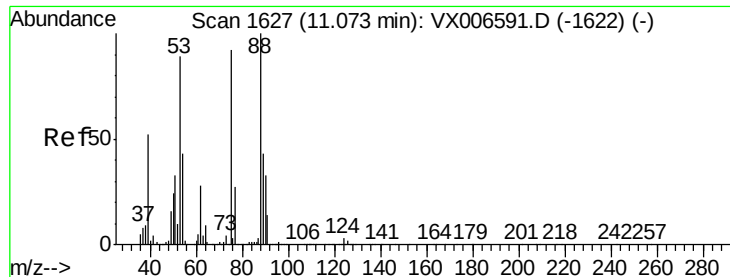
77 1.3 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.872 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006853.D

Acq: 28 Dec 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

ENGINE-WASH

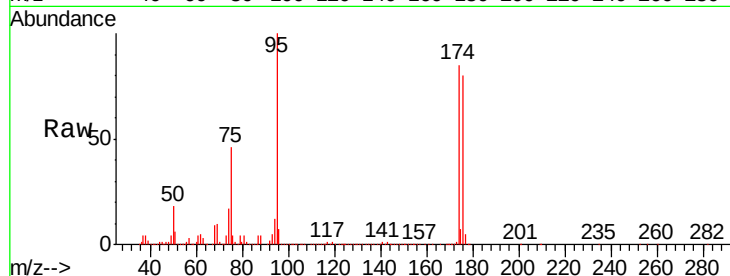
Tgt Ion: 75 Resp: 207946

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

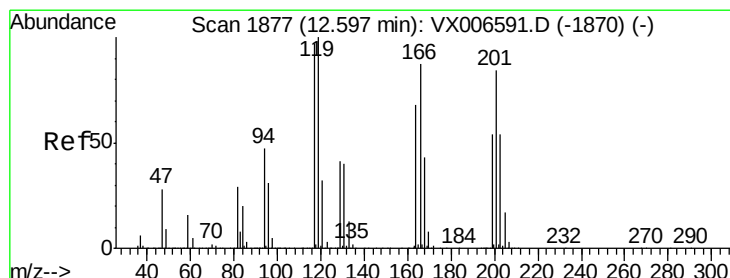
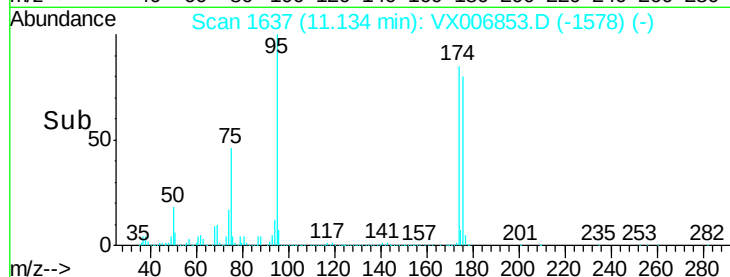
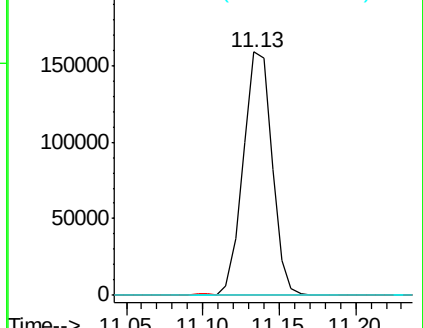
89 0.1 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 3.315 ug/l

RT: 12.85 min Scan# 1919

Delta R.T. 0.26 min

Lab File: VX006853.D

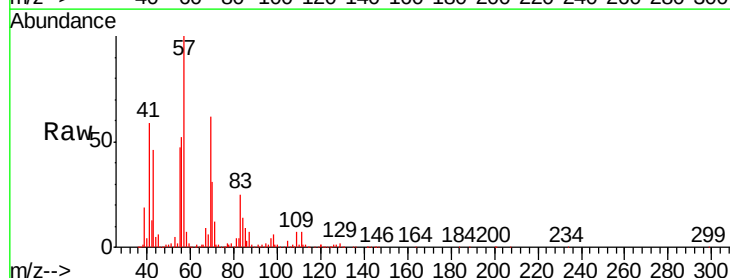
Acq: 28 Dec 2018 11:40

Tgt Ion: 117 Resp: 105

Ion Ratio Lower Upper

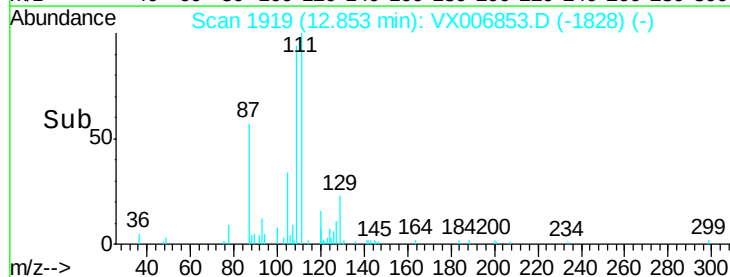
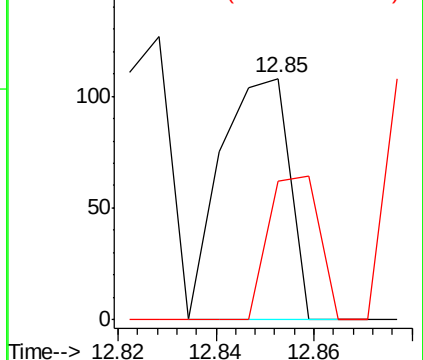
117 100

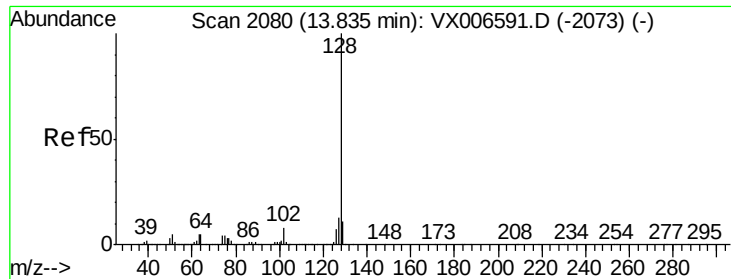
201 43.8 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

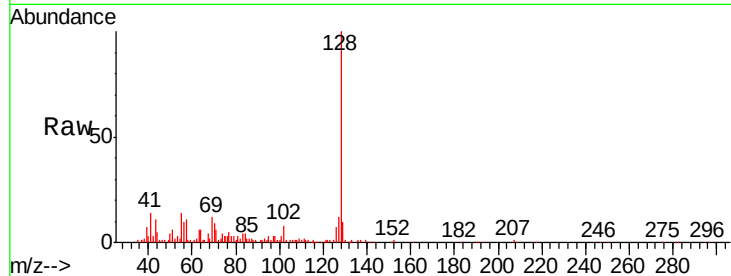




#95  
Naphthalene  
Concen: 0.871 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX006853.D  
Acq: 28 Dec 2018 11:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
ENGINE-WASH

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 14.7  | 10.1  | 15.1  |
| 129     | 13.0  | 8.6   | 13.0  |



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

