

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120418\  
 Data File : VW007186.D  
 Acq On : 04 Dec 2018 14:29  
 Operator : SY/AP  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVWV120418

Quant Time: Dec 05 05:03:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W120418S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 04 14:18:19 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 107753   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 167712   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 144837   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 74967    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 49379    | 49.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.44%  |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 47251    | 49.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.40%  |      |
| 50) Toluene-d8            | 10.33  | 98  | 211635   | 50.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.06% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 78057    | 48.89 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.78%  |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 53277  | 45.192  | ug/l | 99     |
| 3) Chloromethane              | 2.21 | 50  | 63875  | 42.785  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.36 | 62  | 46327  | 49.561  | ug/l | 99     |
| 5) Bromomethane               | 2.76 | 94  | 26282  | 56.109  | ug/l | 98     |
| 6) Chloroethane               | 2.92 | 64  | 26182  | 49.920  | ug/l | 95     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 86857  | 47.660  | ug/l | 99     |
| 8) Diethyl Ether              | 3.69 | 74  | 24422  | 48.076  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 53824  | 48.891  | ug/l | 99     |
| 10) Methyl Iodide             | 4.28 | 142 | 47976  | 51.157  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.15 | 59  | 26550  | 279.490 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 49870  | 48.338  | ug/l | 98     |
| 13) Acrolein                  | 3.90 | 56  | 17496  | 248.893 | ug/l | 99     |
| 14) Allyl chloride            | 4.67 | 41  | 80280  | 48.545  | ug/l | 98     |
| 15) Acrylonitrile             | 5.37 | 53  | 56464  | 265.883 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 67570  | 284.508 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.38 | 76  | 166295 | 48.899  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 27108  | 50.005  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 121405 | 49.980  | ug/l | 99     |
| 20) Methylene Chloride        | 4.92 | 84  | 58714  | 48.985  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 55446  | 48.130  | ug/l | 96     |
| 22) Diisopropyl ether         | 6.31 | 45  | 148233 | 49.932  | ug/l | 95     |
| 23) Vinyl Acetate             | 6.26 | 43  | 426939 | 263.565 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 93903  | 49.351  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 72141  | 262.037 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 90282  | 49.374  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 60363  | 48.879  | ug/l | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 33121  | 48.274  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 43931  | 258.223 | ug/l | 99     |
| 30) Chloroform                | 7.68 | 83  | 95347  | 48.216  | ug/l | 98     |
| 31) Cyclohexane               | 7.96 | 56  | 97174  | 48.810  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 92890  | 49.915  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 81096  | 49.695  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 30230  | 51.212  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 82812  | 49.719  | ug/l | 96     |

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 MSVOA\_W  
 ClientSampleId :  
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Quant Time: Dec 05 05:03:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W120418S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 04 14:18:19 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 111858   | 51.204   | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 224576   | 50.187   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 17882    | 50.576   | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 62312    | 49.825   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 59610    | 51.995   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 63105    | 50.170   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 52304    | 50.229   | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 27296    | 50.446   | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.65  | 83   | 68600    | 48.197   | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.44  | 41   | 30295    | 50.914   | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 10536    | 1114.634 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 151948   | 268.946  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 157829   | 50.704   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 73924    | 51.659   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 83982    | 50.078   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 38413    | 49.908   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 54709    | 54.492   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 66298    | 51.021   | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 103193   | 255.894  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 114195   | 278.823  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 47259    | 49.959   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 38488    | 52.136   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 54691    | 51.683   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 167202   | 51.689   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 52053    | 52.105   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 300427   | 50.958   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 243460   | 105.262  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 110245   | 51.018   | ug/l   | 95       |
| 70) Styrene                    | 12.18 | 104  | 178945   | 50.587   | ug/l   | 97       |
| 71) Bromoform                  | 12.35 | 173  | 26914    | 53.818   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 318647   | 52.260   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 58701    | 54.300   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 43286    | 54.663   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 60847    | 54.010   | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 67483    | 51.274   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.81 | 91   | 372374   | 51.262   | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 204797   | 49.925   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 258690   | 49.594   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 14745    | 54.749   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 224552   | 51.456   | ug/l   | 96       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 237365   | 52.073   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 260261   | 48.880   | ug/l   | 94       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 329128   | 50.577   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 296496   | 51.182   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 139541   | 51.647   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 134908   | 49.433   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.83 | 91   | 280056   | 51.734   | ug/l   | 98       |
| 90) Hexachloroethane           | 14.10 | 117  | 45397    | 51.425   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 119118   | 50.927   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7934     | 51.721   | ug/l   | 95       |

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Operator : SY/AP  
Sample : VSTDICV050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

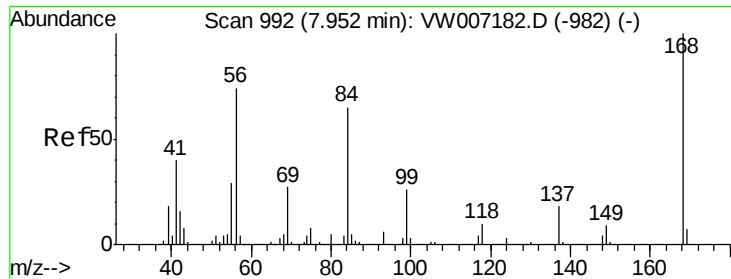
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVWV120418

Quant Time: Dec 05 05:03:35 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W120418S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 04 14:18:19 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 80737    | 49.809 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 43660    | 49.949 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 151548   | 52.167 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 67411    | 49.320 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

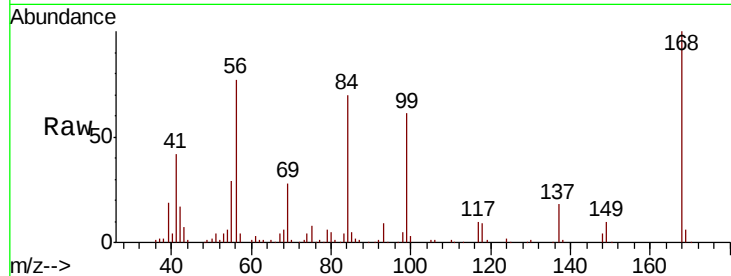
ICVW120418

Tot Ion:168 Resp: 107753

Ion Ratio Lower Upper

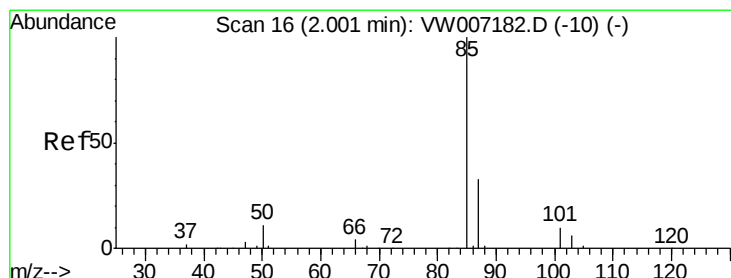
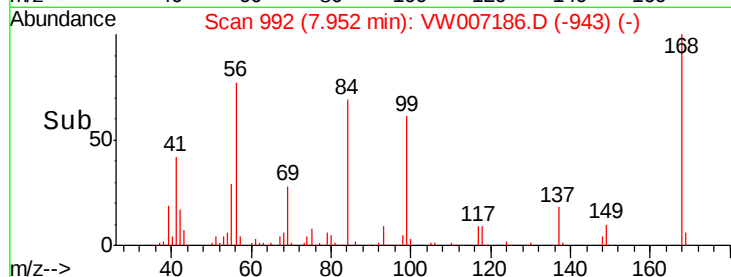
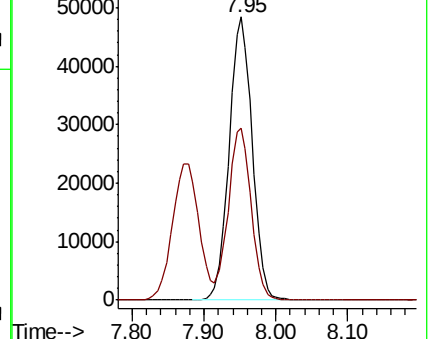
168 100

99 61.0 47.8 71.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 45.192 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.00 min

Lab File: VW007186.D

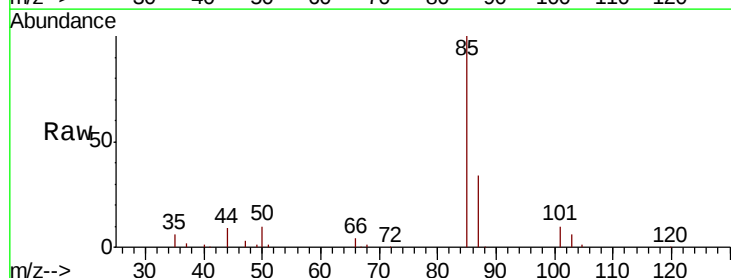
Acq: 04 Dec 2018 14:29

Tgt Ion: 85 Resp: 53277

Ion Ratio Lower Upper

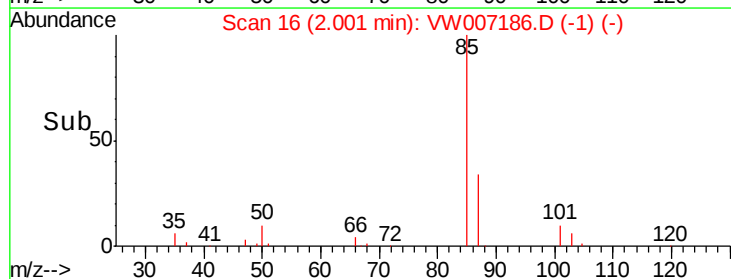
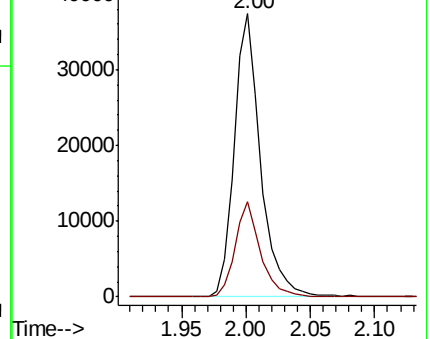
85 100

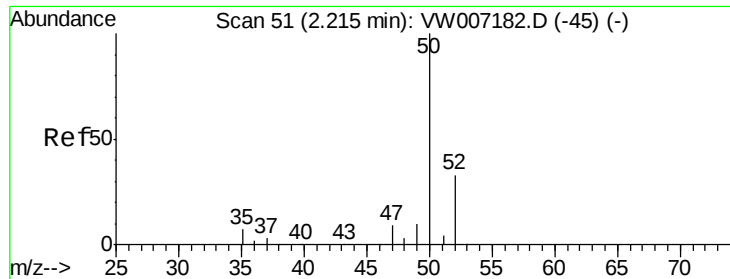
87 33.5 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 42.785 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

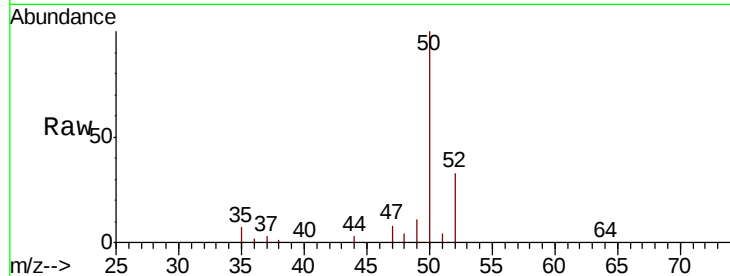
ICVW120418

Tot Ion: 50 Resp: 63875

Ion Ratio Lower Upper

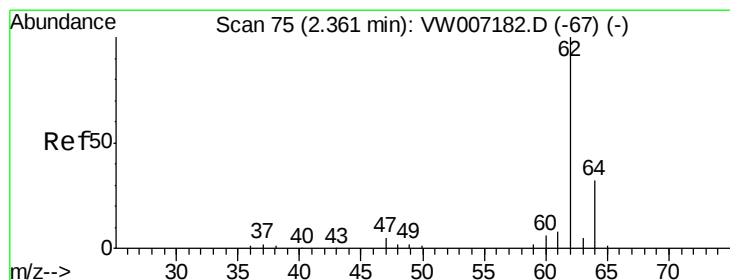
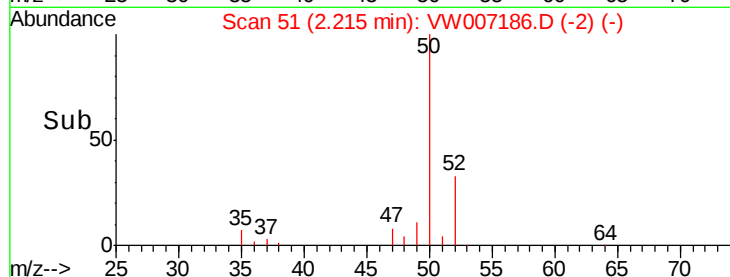
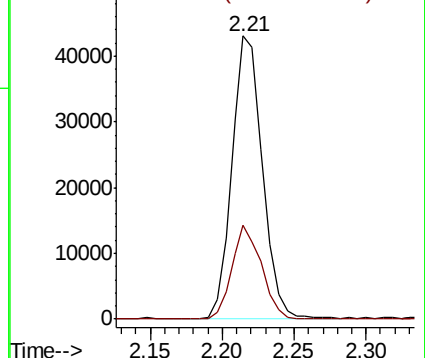
50 100

52 33.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 49.561 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW007186.D

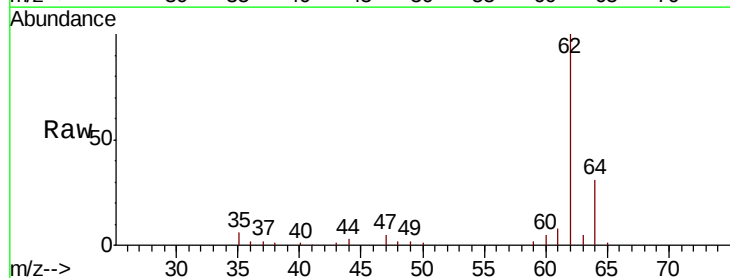
Acq: 04 Dec 2018 14:29

Tgt Ion: 62 Resp: 46327

Ion Ratio Lower Upper

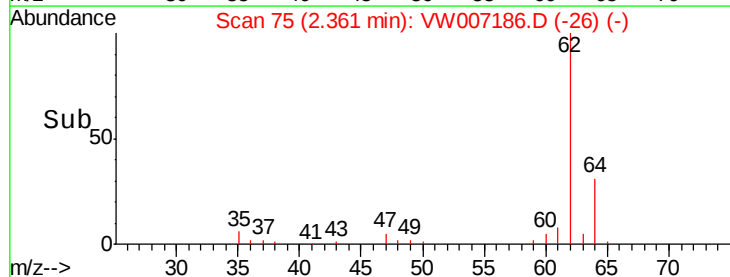
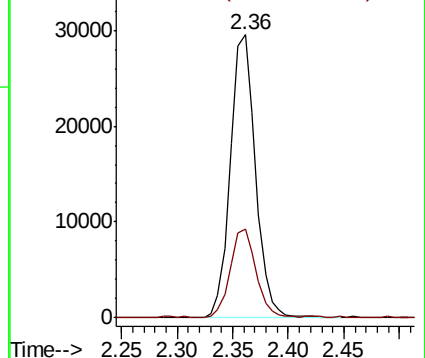
62 100

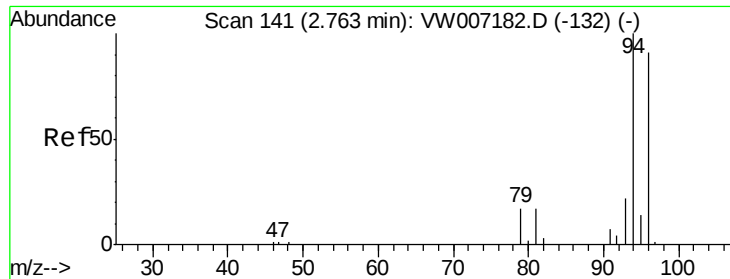
64 31.1 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 56.109 ug/l

RT: 2.76 min Scan# 140

Delta R.T. -0.01 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

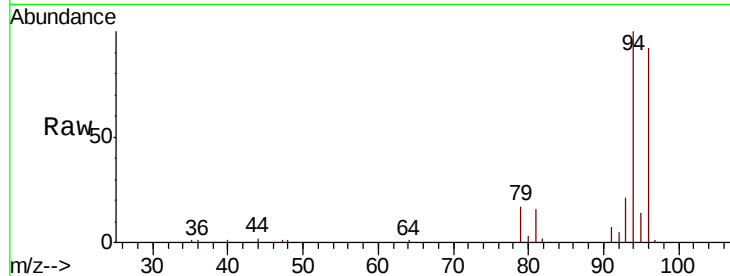
ICVWV120418

Tot Ion: 94 Resp: 26282

Ion Ratio Lower Upper

94 100

96 92.4 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.76

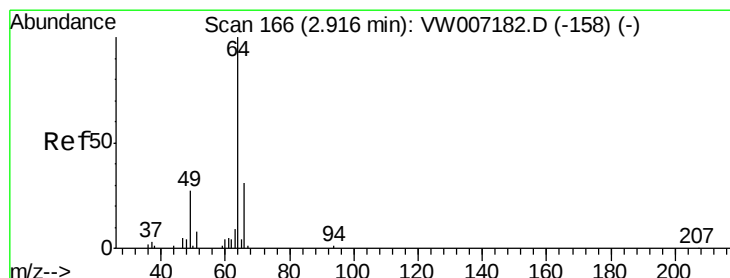
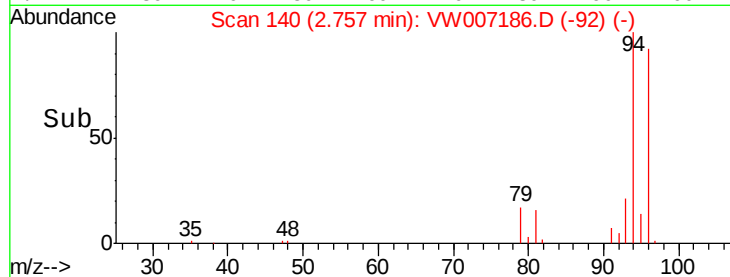
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 49.920 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.00 min

Lab File: VW007186.D

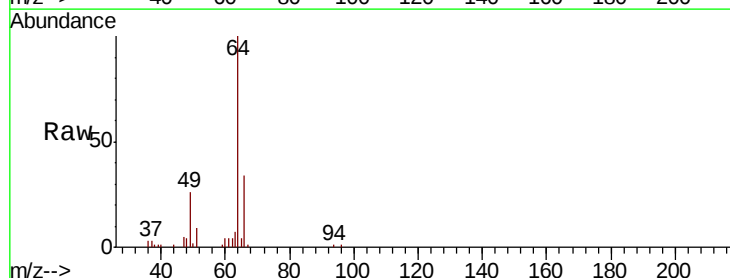
Acq: 04 Dec 2018 14:29

Tgt Ion: 64 Resp: 26182

Ion Ratio Lower Upper

64 100

66 33.8 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW

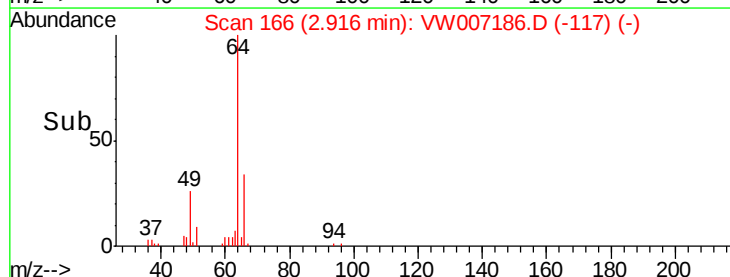
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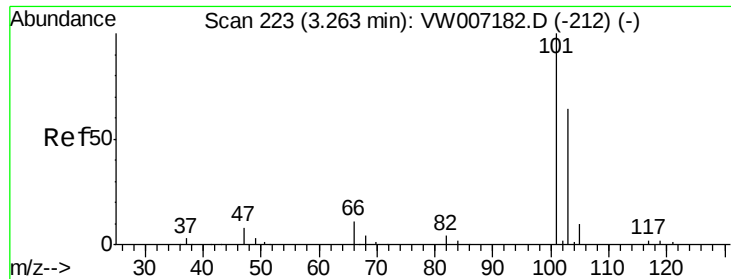
10000

5000

0

Time-->



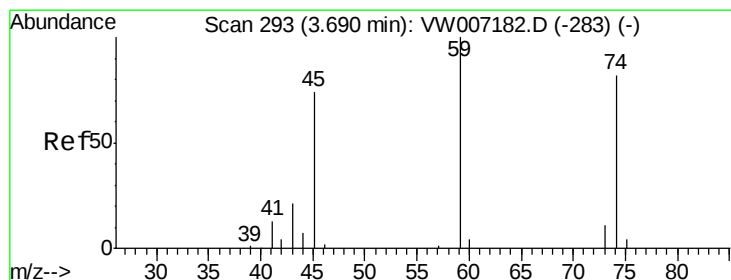
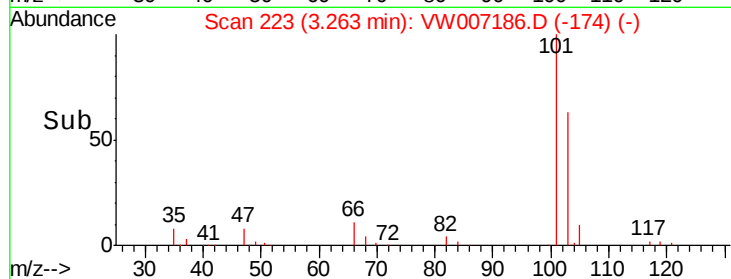
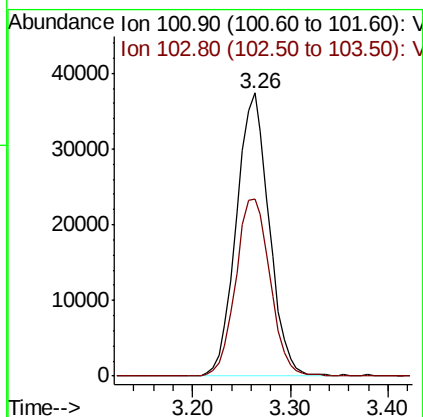
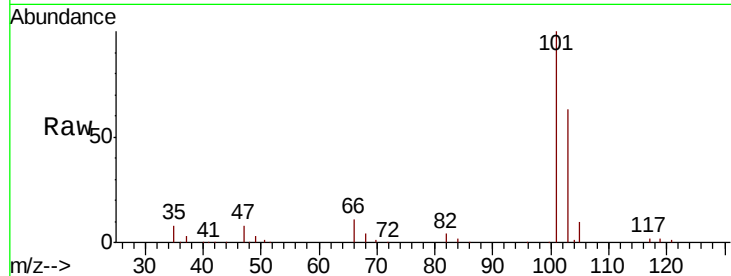


#7

Trichlorofluoromethane  
 Concen: 47.660 ug/l  
 RT: 3.26 min Scan# 223  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW120418

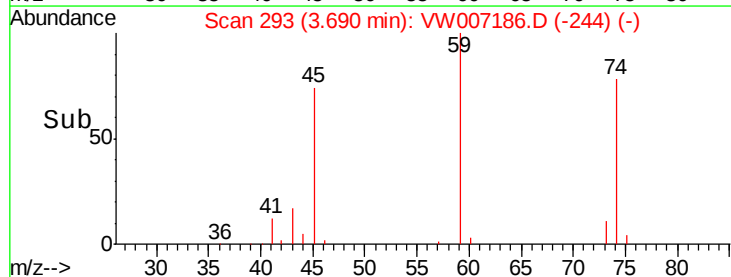
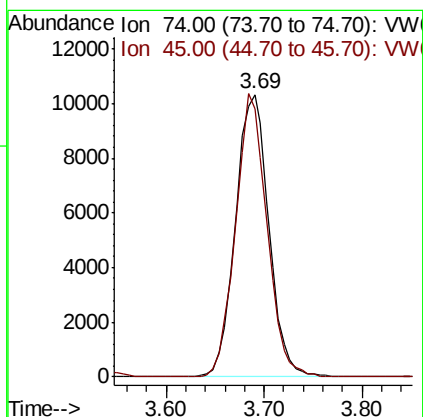
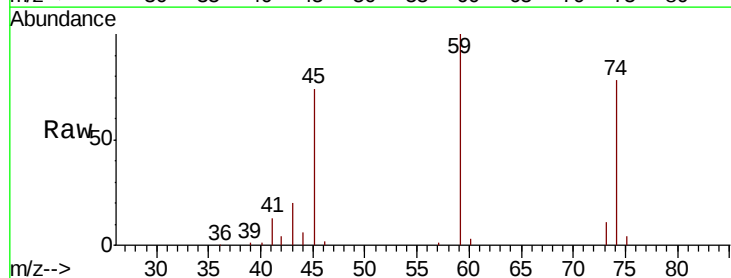
Tot Ion:101 Resp: 86857  
 Ion Ratio Lower Upper  
 101 100  
 103 62.7 50.9 76.3

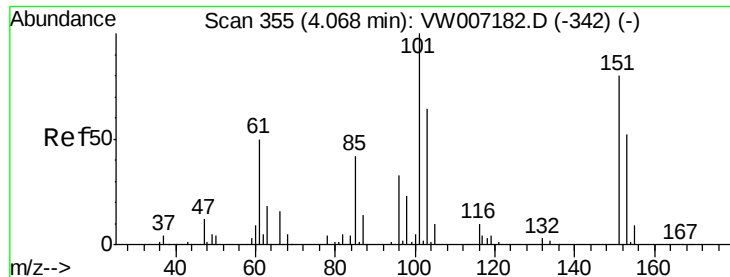


#8

Diethyl Ether  
 Concen: 48.076 ug/l  
 RT: 3.69 min Scan# 293  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

Tgt Ion: 74 Resp: 24422  
 Ion Ratio Lower Upper  
 74 100  
 45 94.4 47.2 141.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.891 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVWV120418

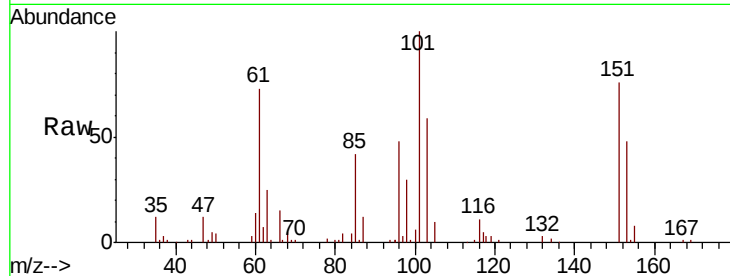
Tot Ion:101 Resp: 53824

Ion Ratio Lower Upper

101 100

85 42.8 33.4 50.2

151 79.7 63.9 95.9

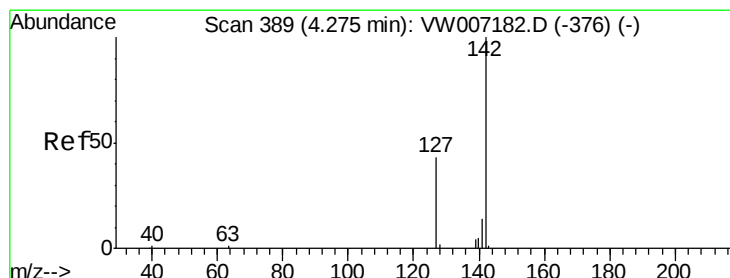
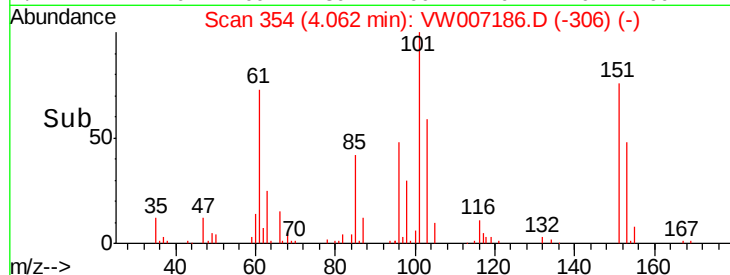
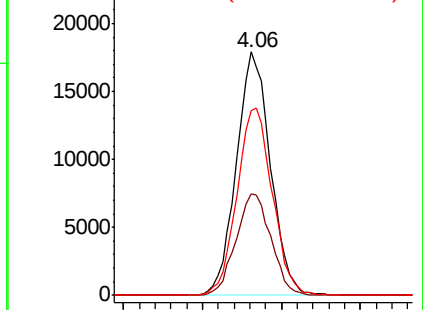


Abundance

Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 51.157 ug/l

RT: 4.28 min Scan# 389

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

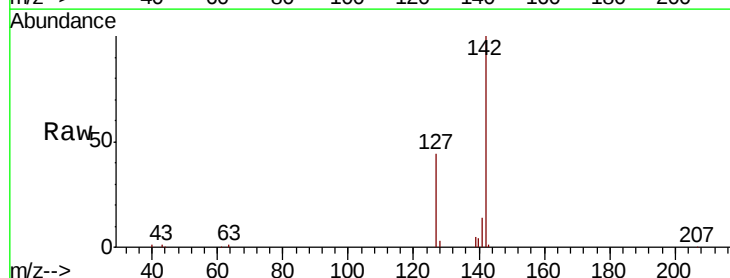
Tgt Ion:142 Resp: 47976

Ion Ratio Lower Upper

142 100

127 43.5 34.9 52.3

141 15.1 11.7 17.5

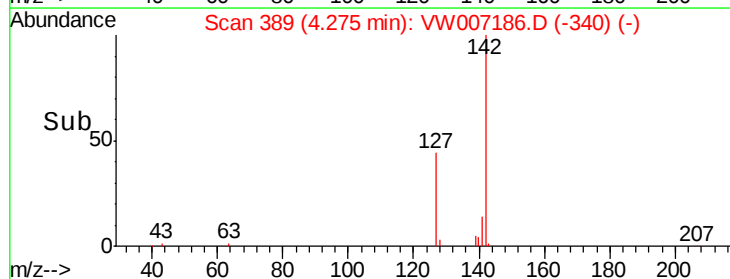
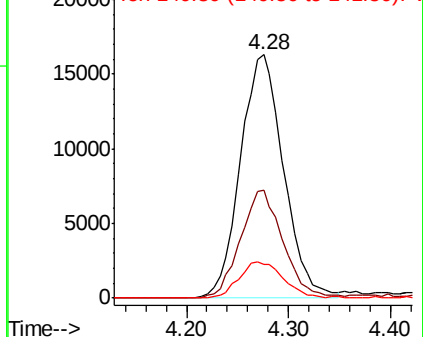


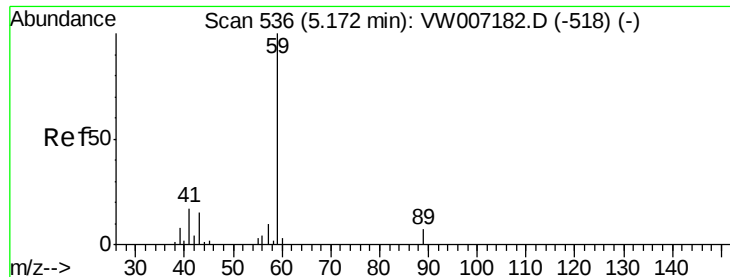
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

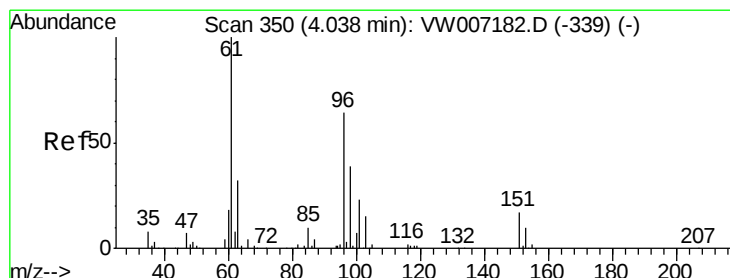
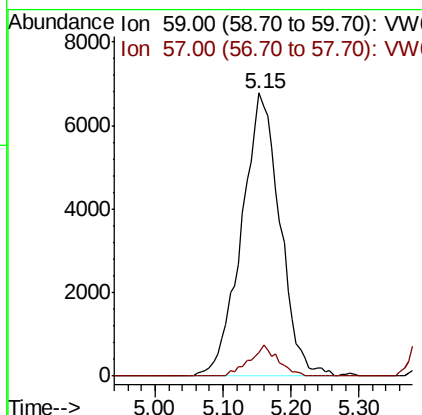
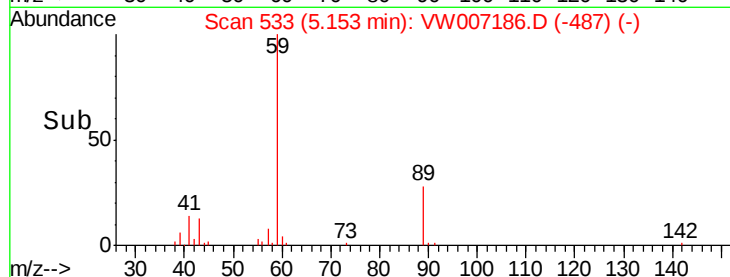
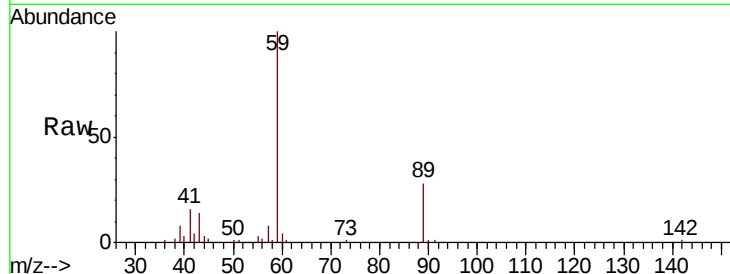




#11  
Tert butyl alcohol  
Concen: 279.490 ug/l  
RT: 5.15 min Scan# 533  
Delta R.T. -0.02 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

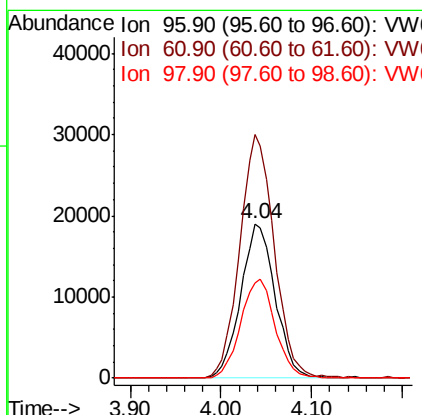
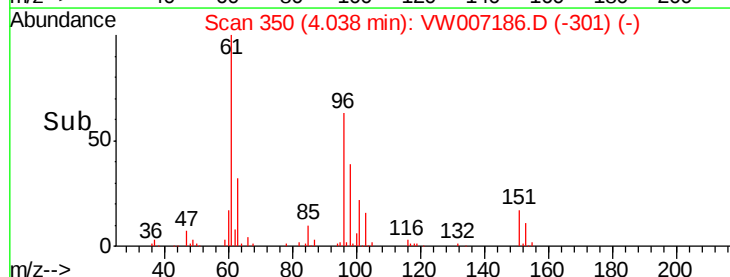
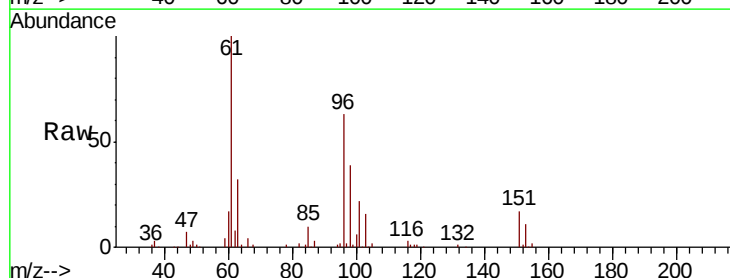
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

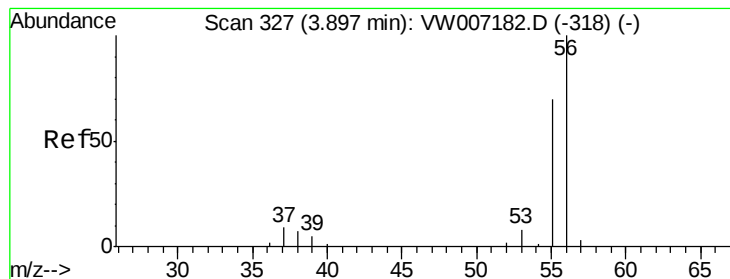
Tot Ion: 59 Resp: 26550  
Ion Ratio Lower Upper  
59 100  
57 8.2 7.1 10.7



#12  
1,1-Dichloroethene  
Concen: 48.338 ug/l  
RT: 4.04 min Scan# 350  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 96 Resp: 49870  
Ion Ratio Lower Upper  
96 100  
61 157.6 124.1 186.1  
98 61.9 48.6 72.8





#13

Acrolein

Concen: 248.893 ug/l

RT: 3.90 min Scan# 327

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

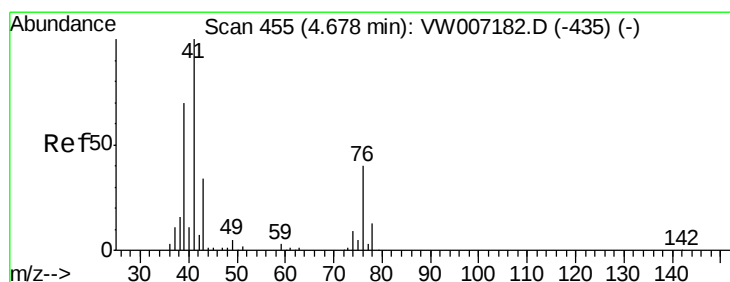
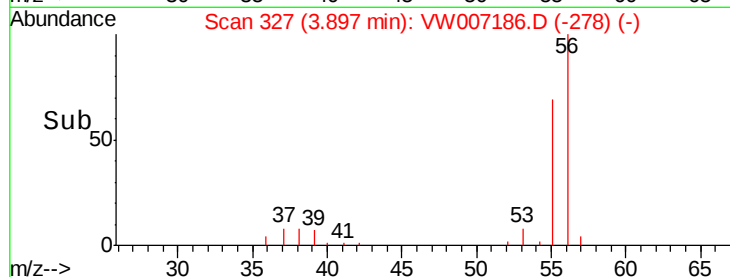
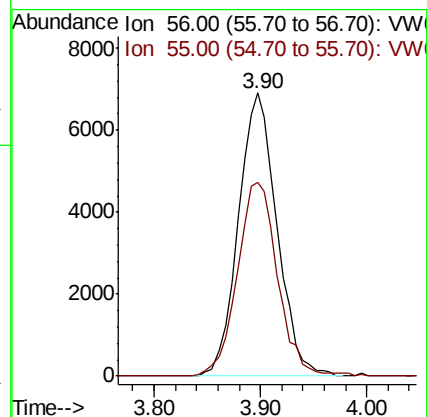
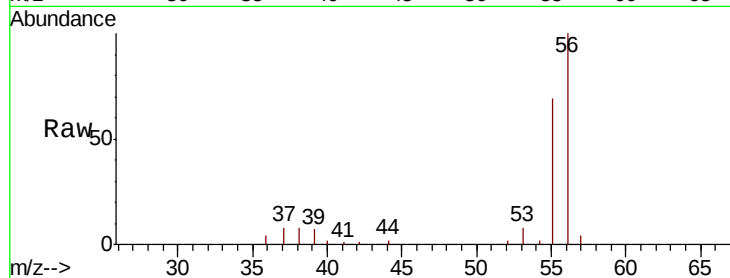
ICVWV120418

Tot Ion: 56 Resp: 17496

Ion Ratio Lower Upper

56 100

55 71.8 56.9 85.3



#14

Allyl chloride

Concen: 48.545 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.01 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

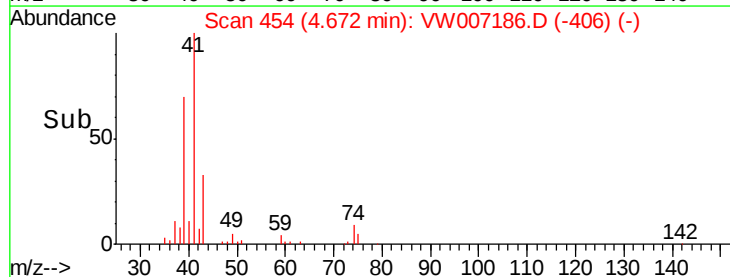
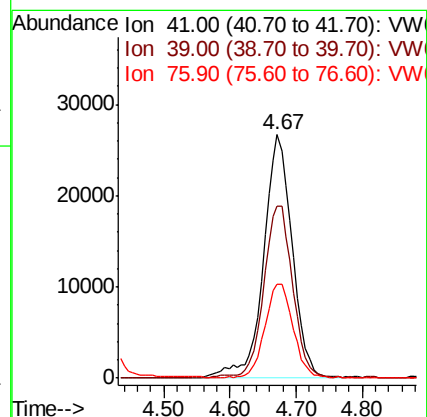
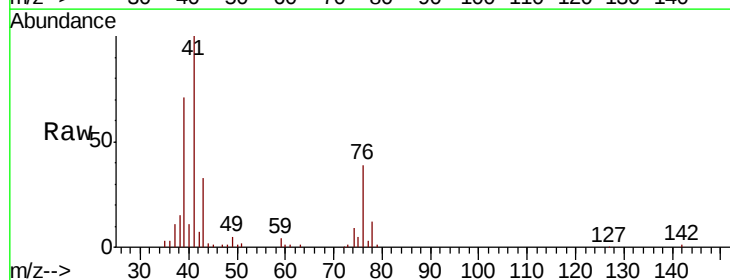
Tgt Ion: 41 Resp: 80280

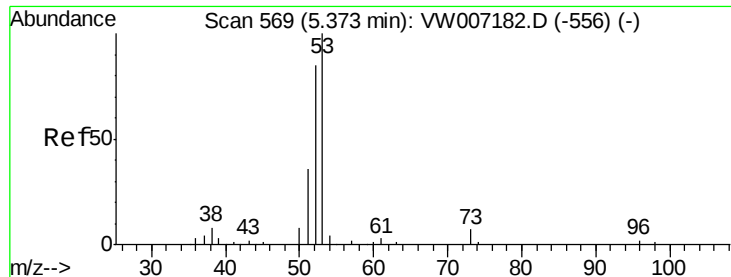
Ion Ratio Lower Upper

41 100

39 71.7 55.9 83.9

76 38.2 30.8 46.2





#15

Acrylonitrile

Concen: 265.883 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.01 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVWV120418

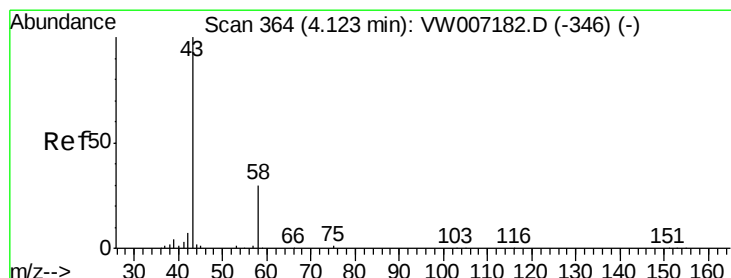
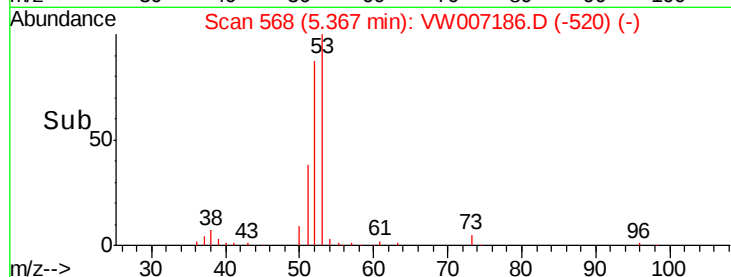
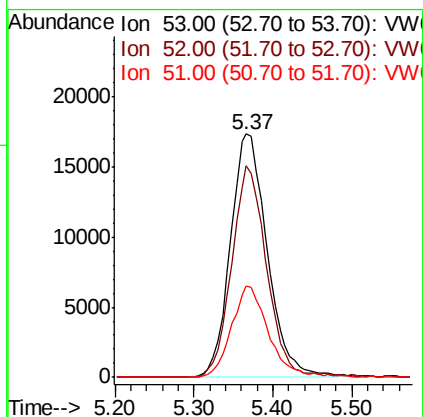
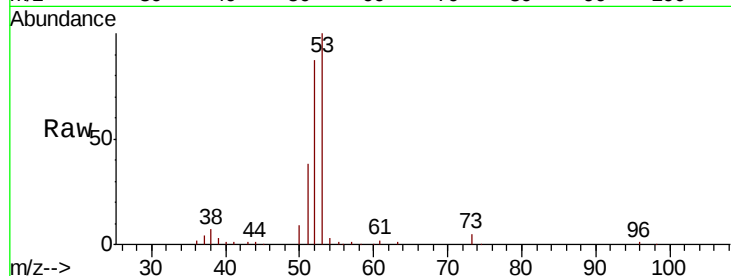
Tot Ion: 53 Resp: 56464

Ion Ratio Lower Upper

53 100

52 82.1 66.1 99.1

51 37.6 30.3 45.5



#16

Acetone

Concen: 284.508 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW007186.D

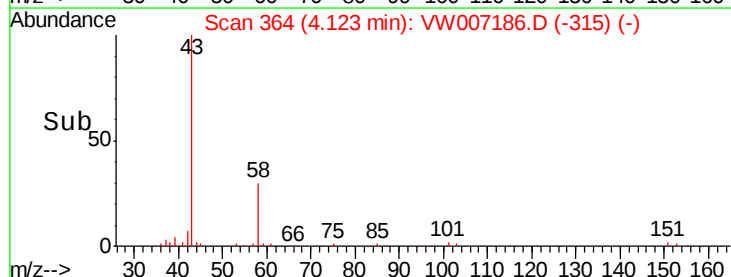
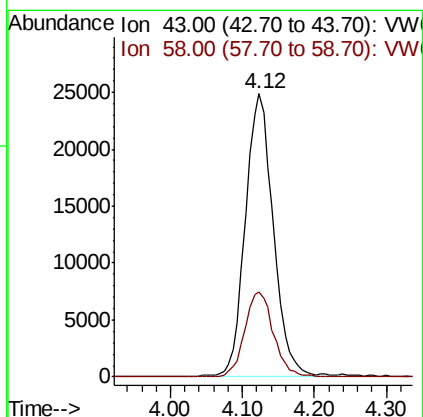
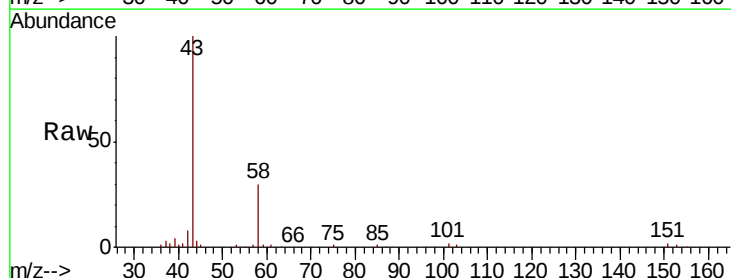
Acq: 04 Dec 2018 14:29

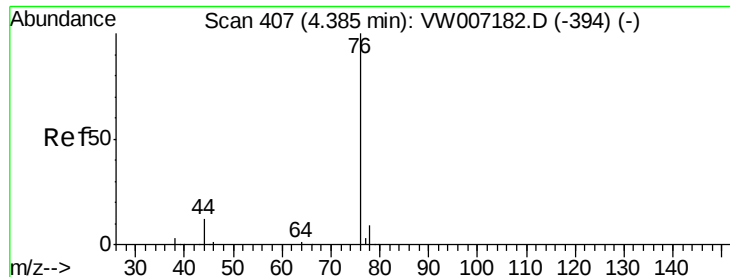
Tgt Ion: 43 Resp: 67570

Ion Ratio Lower Upper

43 100

58 29.9 23.8 35.8

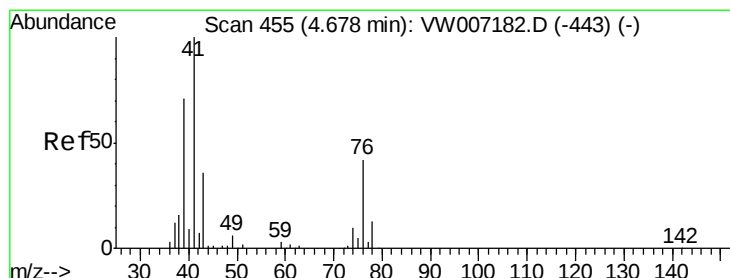
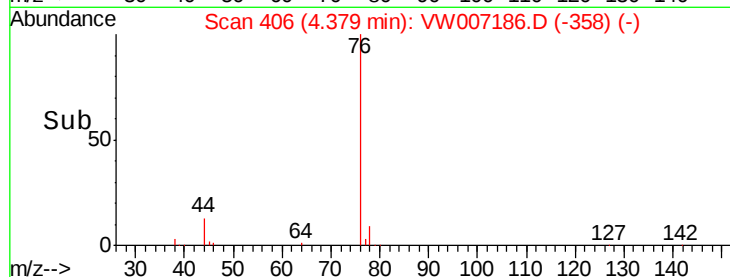
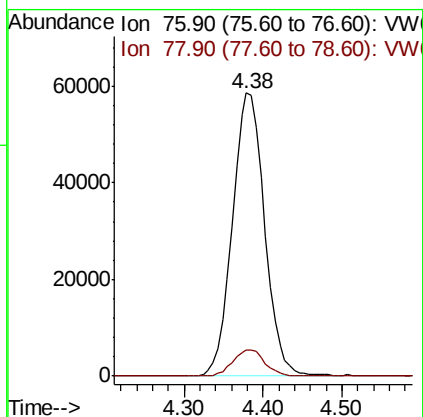
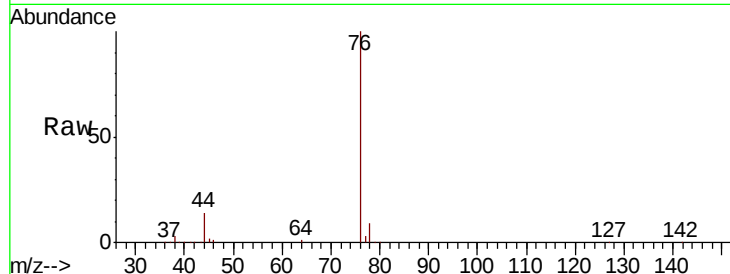




#17  
Carbon Disulfide  
Concen: 48.899 ug/l  
RT: 4.38 min Scan# 406  
Delta R.T. -0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

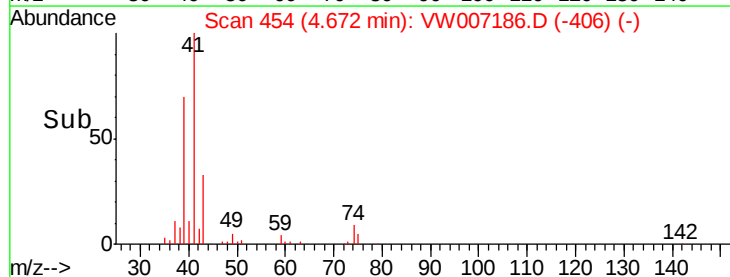
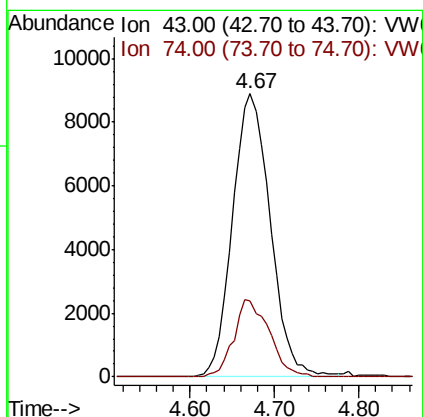
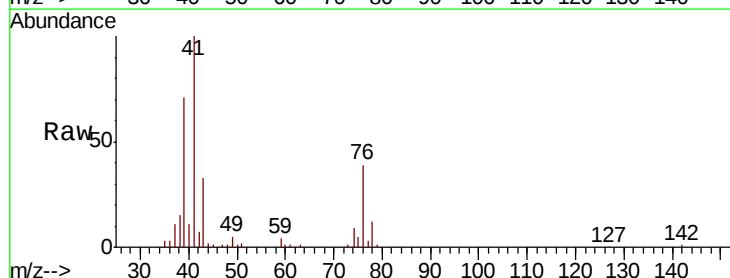
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVWV120418

Tot Ion: 76 Resp: 166295  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.2 10.8



#18  
Methyl Acetate  
Concen: 50.005 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. -0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 43 Resp: 27108  
Ion Ratio Lower Upper  
43 100  
74 25.5 20.1 30.1

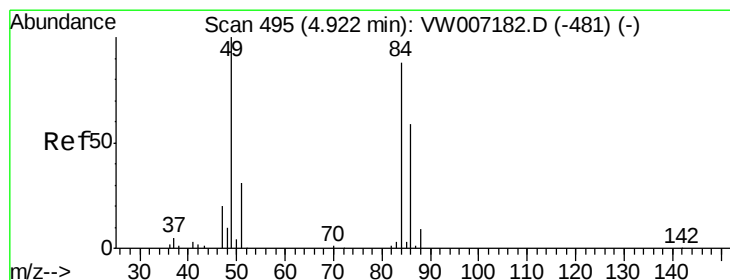
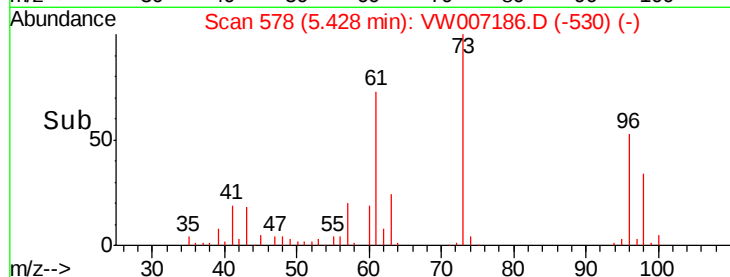
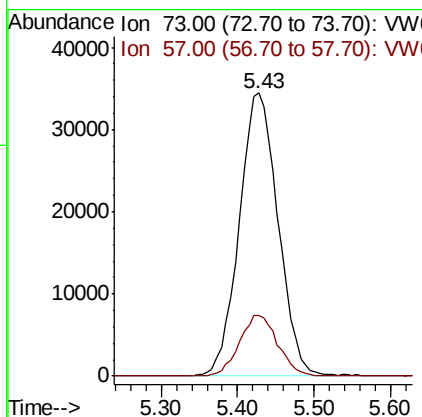
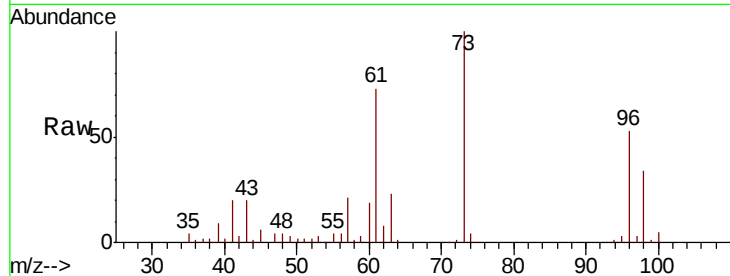




#19  
Methyl tert-butyl Ether  
Concen: 49.980 ug/l  
RT: 5.43 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

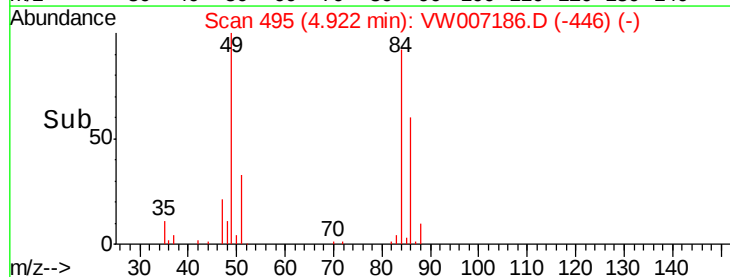
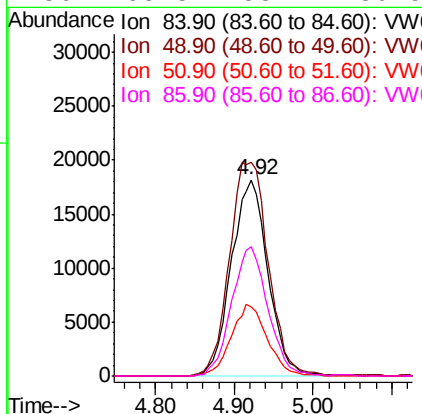
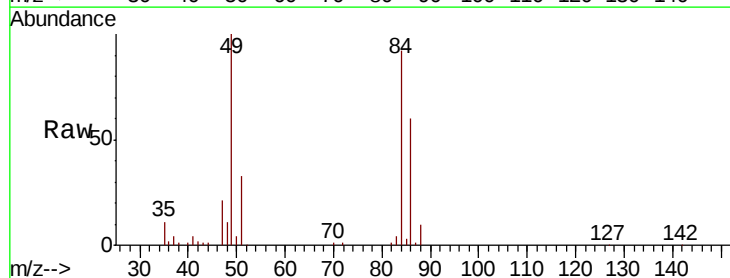
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

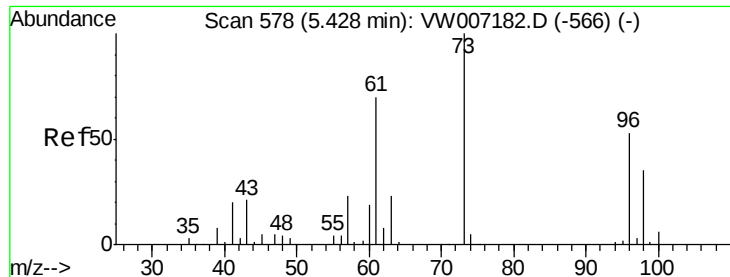
Tot Ion: 73 Resp: 121405  
Ion Ratio Lower Upper  
73 100  
57 21.4 16.6 25.0



#20  
Methylene Chloride  
Concen: 48.985 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 84 Resp: 58714  
Ion Ratio Lower Upper  
84 100  
49 108.7 90.6 135.8  
51 35.5 27.6 41.4  
86 65.5 53.7 80.5





#21

trans-1,2-Dichloroethene

Concen: 48.130 ug/l

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

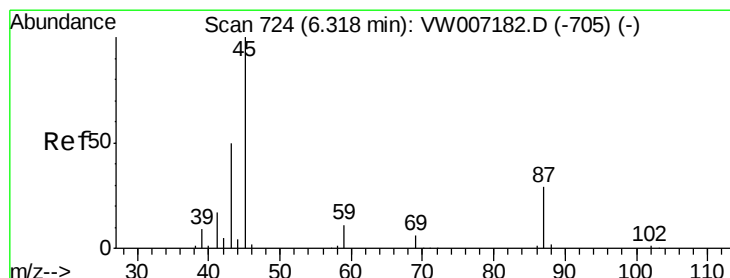
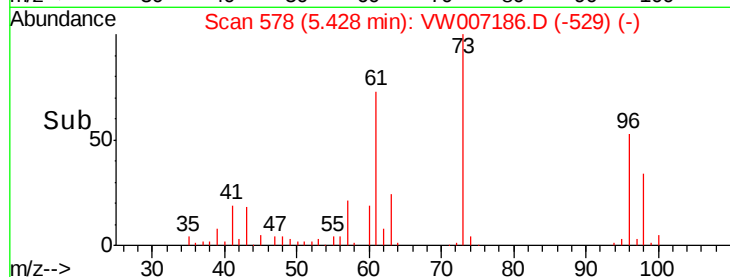
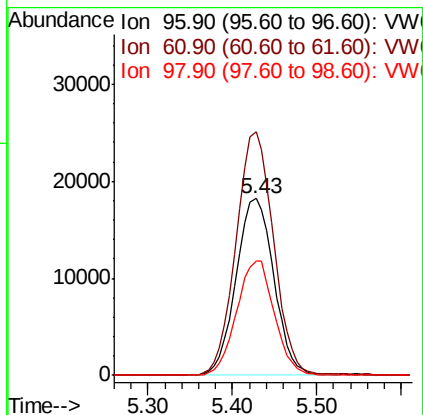
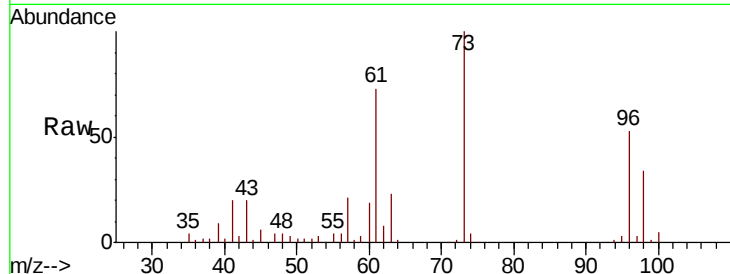
Tot Ion: 96 Resp: 55446

Ion Ratio Lower Upper

96 100

61 137.6 105.5 158.3

98 64.6 52.6 79.0



#22

Diisopropyl ether

Concen: 49.932 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.01 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Tgt Ion: 45 Resp: 148233

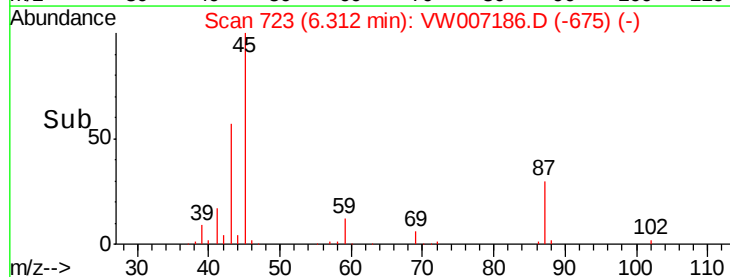
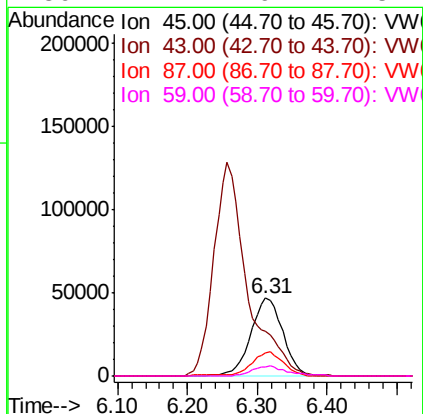
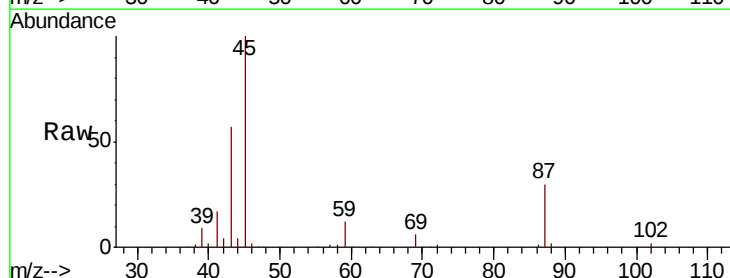
Ion Ratio Lower Upper

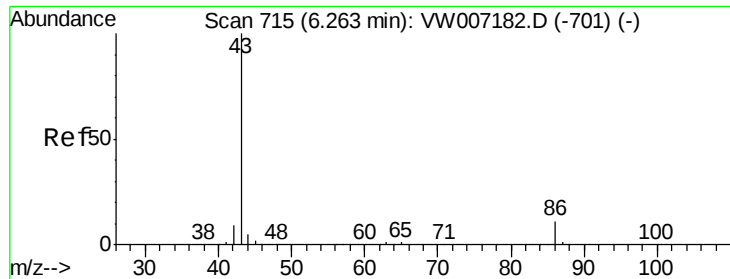
45 100

43 56.4 40.8 61.2

87 30.5 24.0 36.0

59 12.2 9.1 13.7





#23

Vinyl Acetate

Concen: 263.565 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.01 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

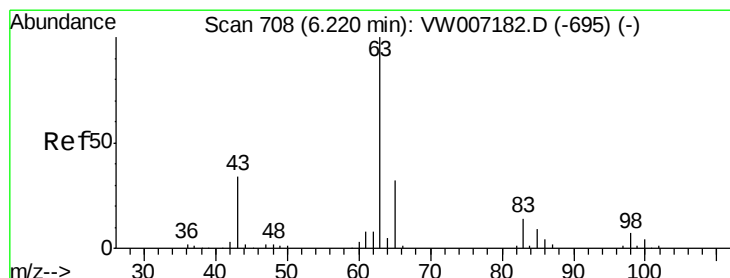
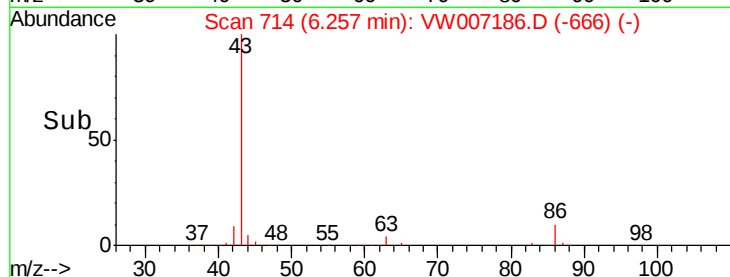
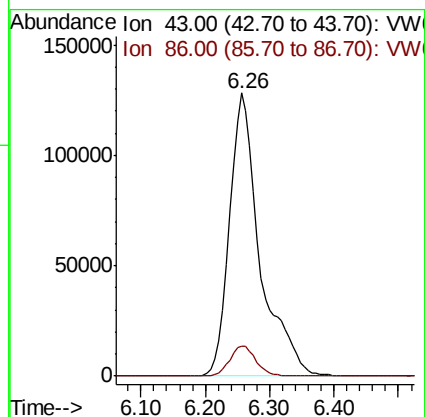
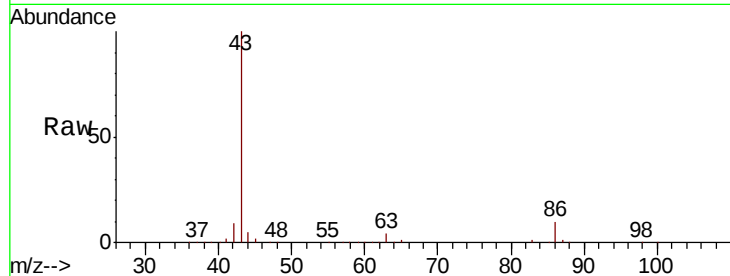
ICVW120418

Tot Ion: 43 Resp: 426939

Ion Ratio Lower Upper

43 100

86 10.5 9.0 13.6



#24

1,1-Dichloroethane

Concen: 49.351 ug/l

RT: 6.22 min Scan# 708

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

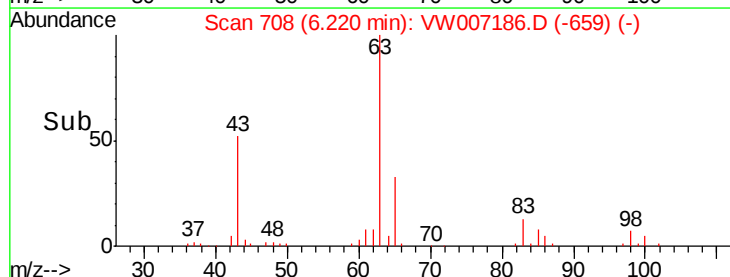
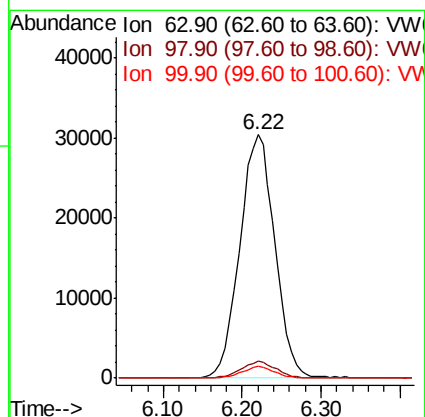
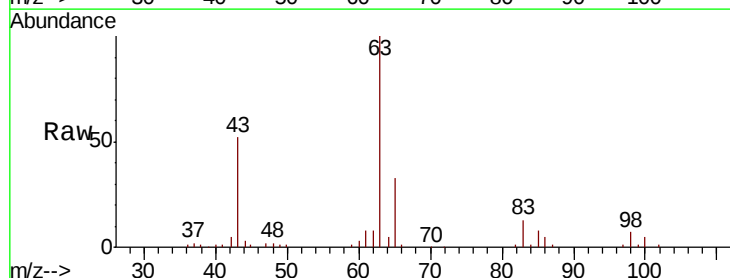
Tgt Ion: 63 Resp: 93903

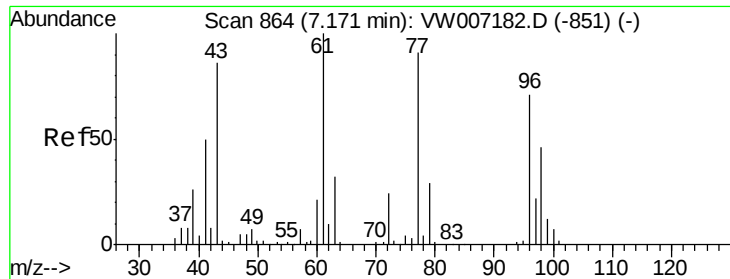
Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.5

100 4.8 2.1 6.2





#25

2-Butanone

Concen: 262.037 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

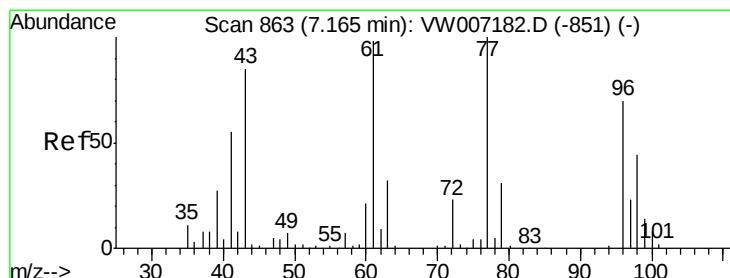
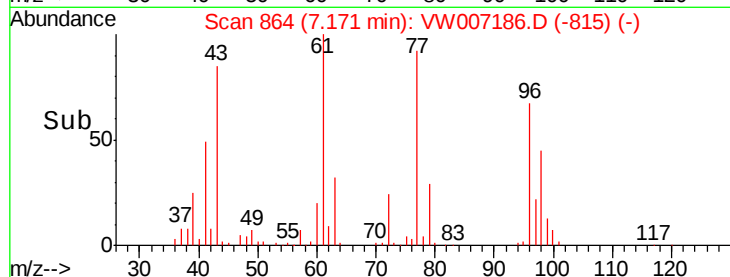
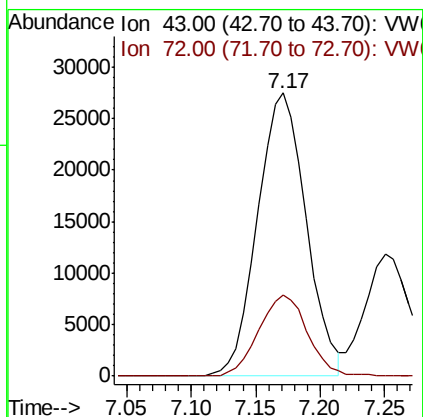
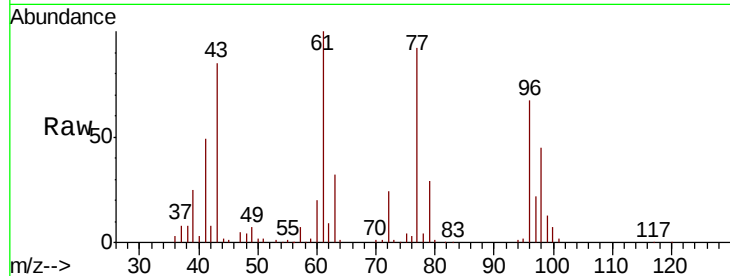
ICVW120418

Tot Ion: 43 Resp: 72141

Ion Ratio Lower Upper

43 100

72 28.8 22.8 34.2



#26

2,2-Dichloropropane

Concen: 49.374 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW007186.D

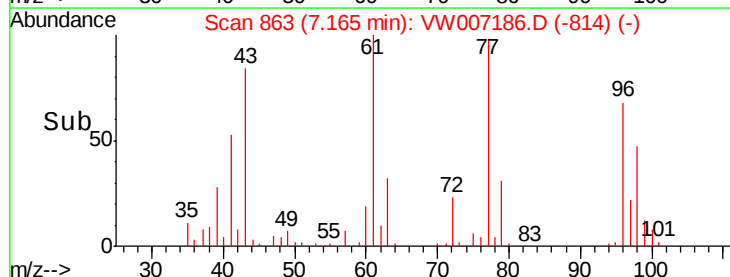
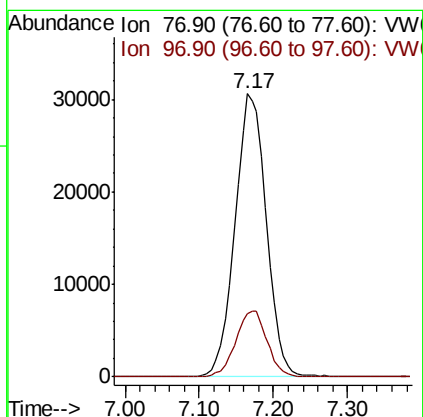
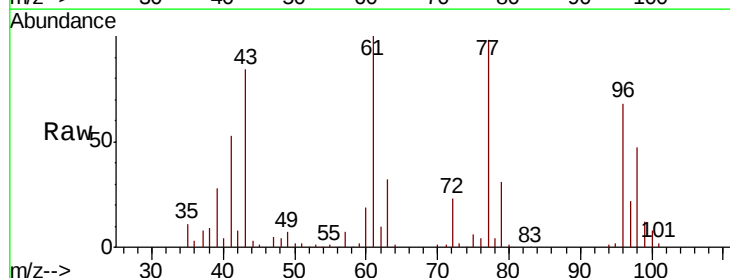
Acq: 04 Dec 2018 14:29

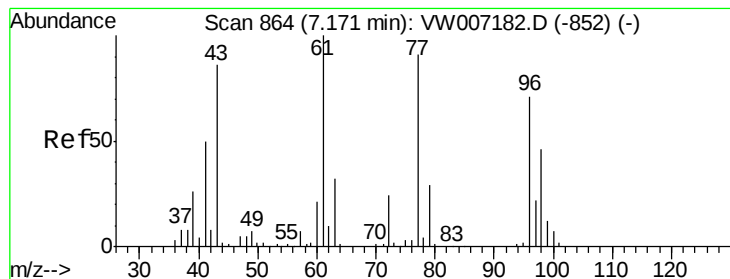
Tgt Ion: 77 Resp: 90282

Ion Ratio Lower Upper

77 100

97 23.1 11.5 34.4



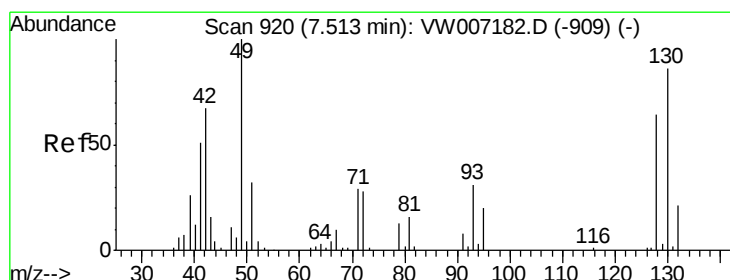
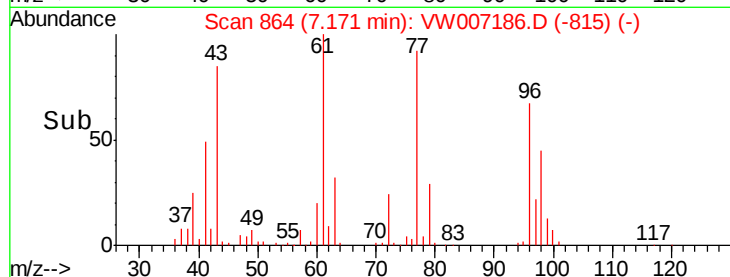
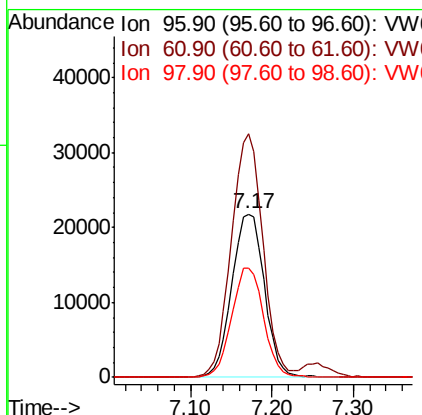
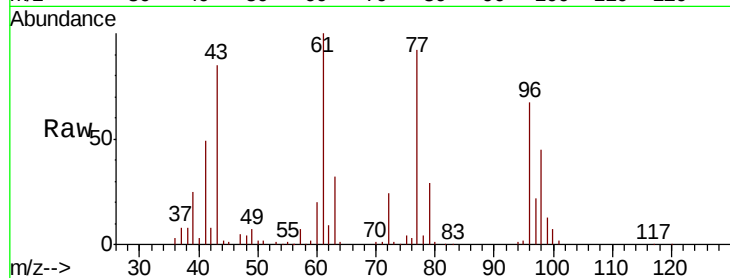


#27

cis-1,2-Dichloroethene  
Concen: 48.879 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

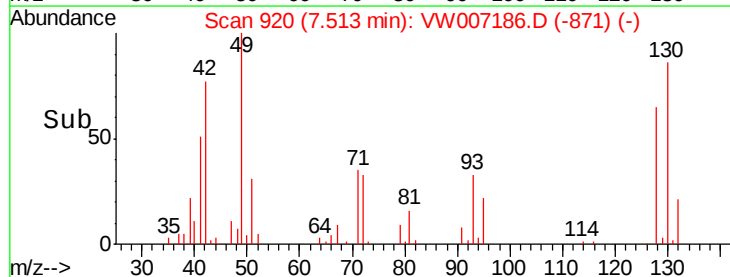
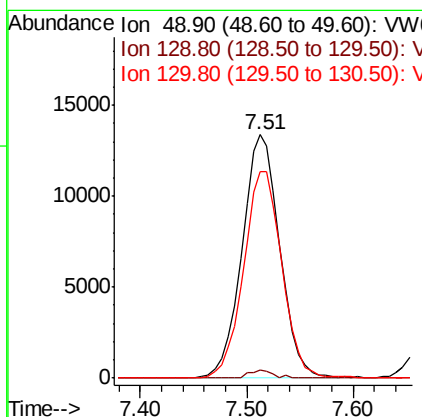
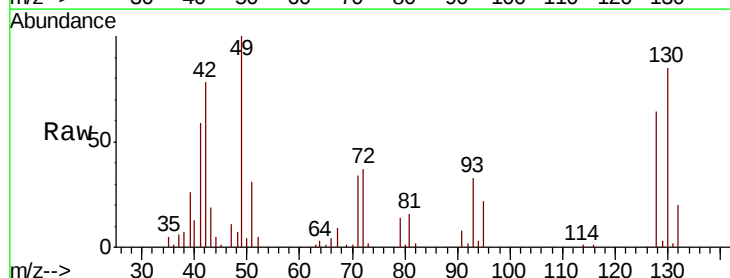
Tot Ion: 96 Resp: 60363  
Ion Ratio Lower Upper  
96 100  
61 144.8 0.0 282.4  
98 65.3 0.0 129.8

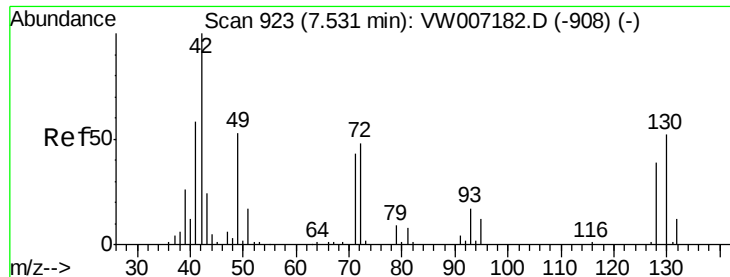


#28

Bromochloromethane  
Concen: 48.274 ug/l  
RT: 7.51 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 49 Resp: 33121  
Ion Ratio Lower Upper  
49 100  
129 2.0 0.0 3.8  
130 86.4 70.3 105.5

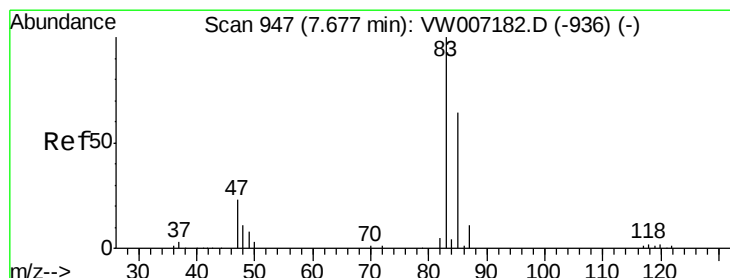
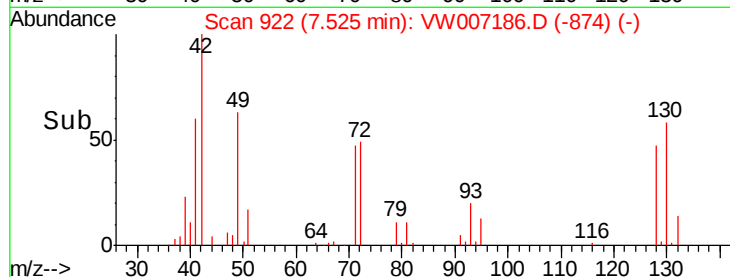
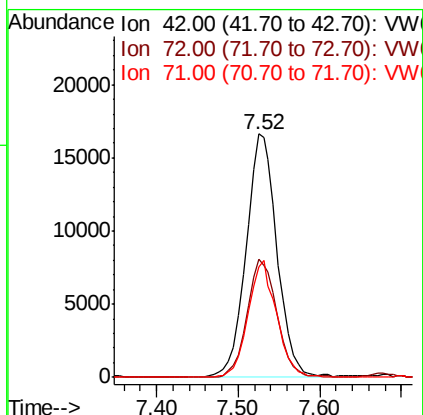
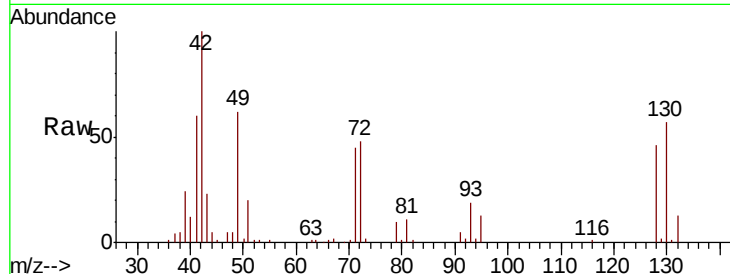




#29  
Tetrahydrofuran  
Concen: 258.223 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

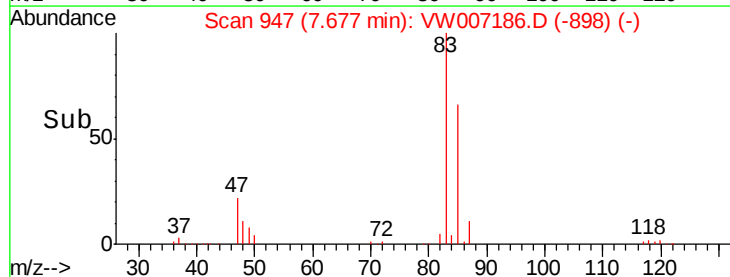
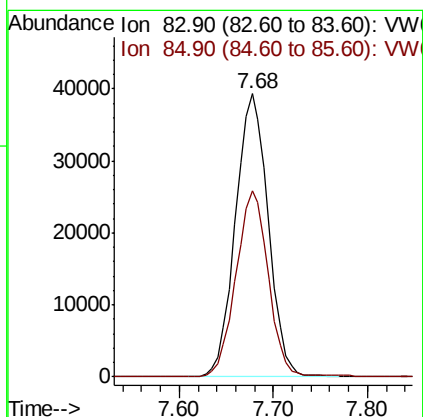
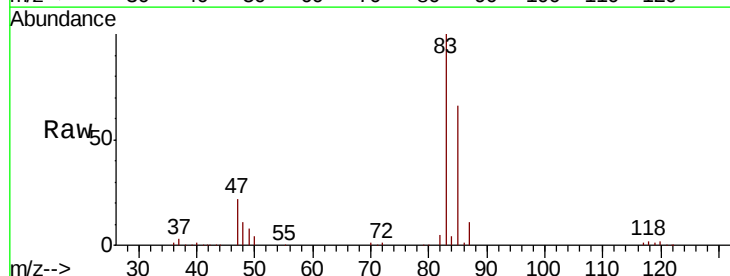
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVWV120418

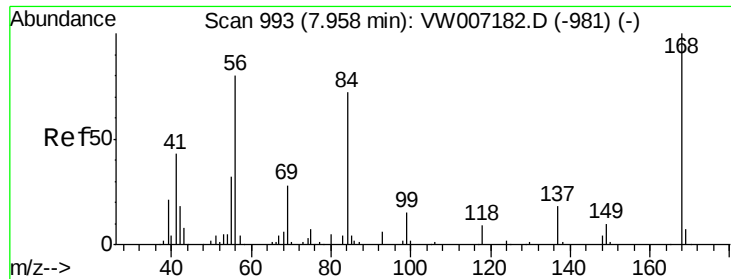
Tot Ion: 42 Resp: 43931  
Ion Ratio Lower Upper  
42 100  
72 46.8 36.6 55.0  
71 44.1 34.8 52.2



#30  
Chloroform  
Concen: 48.216 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 83 Resp: 95347  
Ion Ratio Lower Upper  
83 100  
85 65.7 51.5 77.3

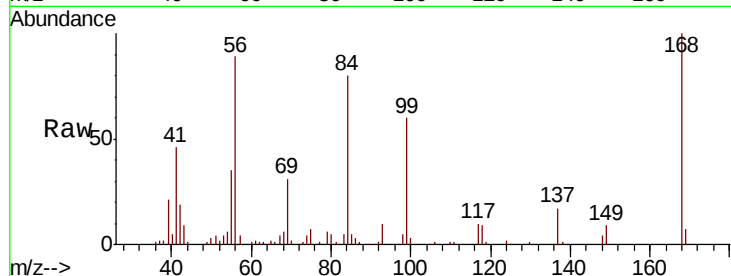




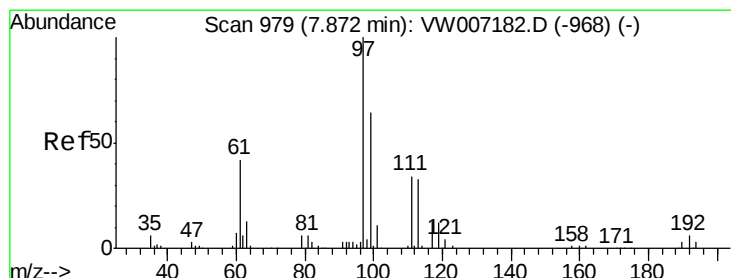
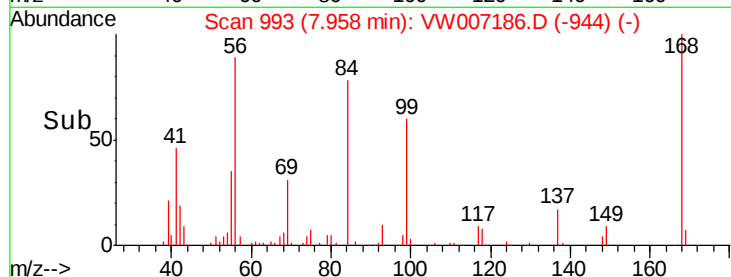
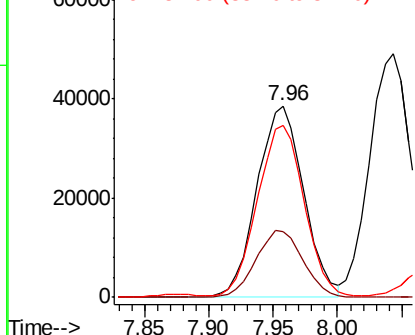
#31  
Cyclohexane  
Concen: 48.810 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

Tot Ion: 56 Resp: 97174  
Ion Ratio Lower Upper  
56 100  
69 34.6 28.2 42.2  
84 88.5 72.1 108.1

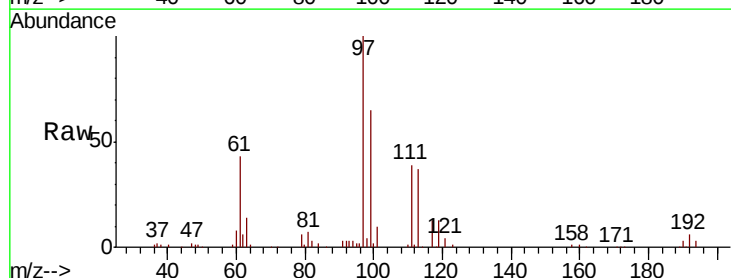


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

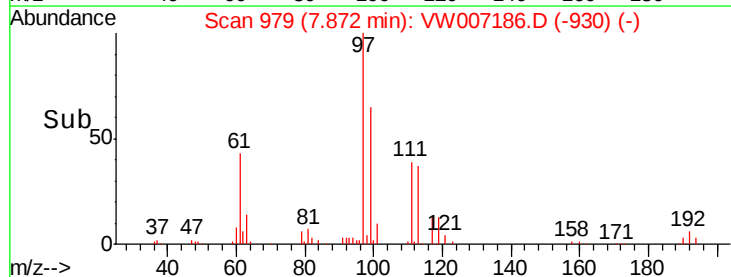
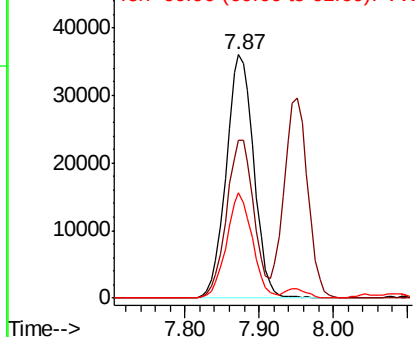


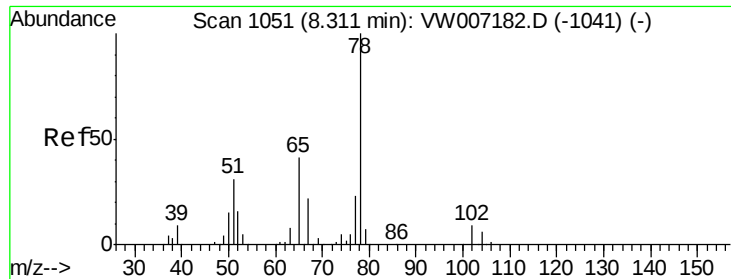
#32  
1,1,1-Trichloroethane  
Concen: 49.915 ug/l  
RT: 7.87 min Scan# 979  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 97 Resp: 92890  
Ion Ratio Lower Upper  
97 100  
99 65.0 51.3 76.9  
61 40.8 33.2 49.8



Abundance Ion 96.90 (96.60 to 97.60): VW  
Ion 98.90 (98.60 to 99.60): VW  
Ion 60.90 (60.60 to 61.60): VW

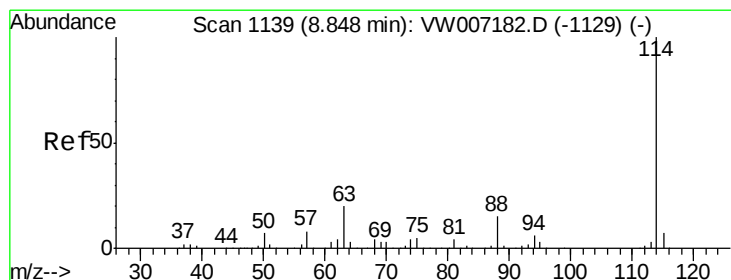
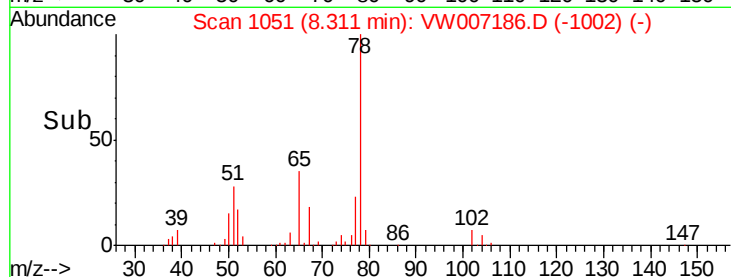
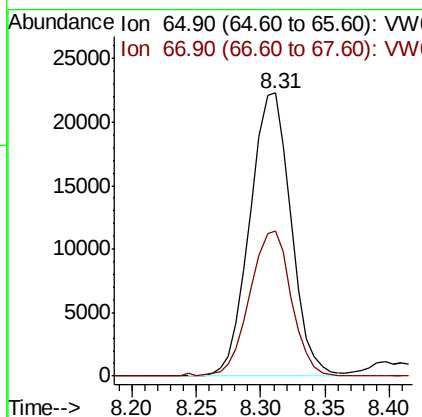
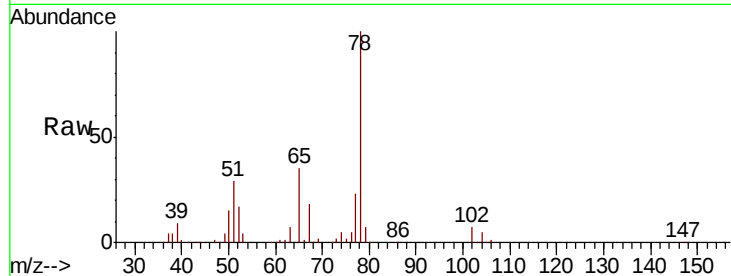




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.220 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

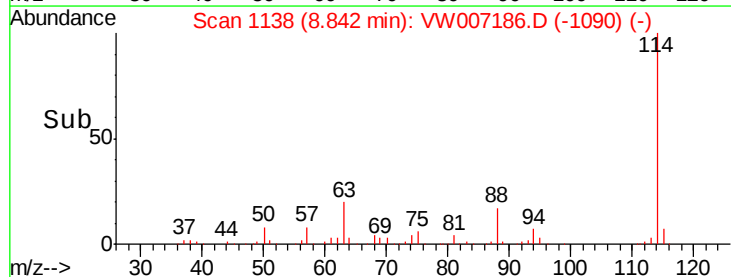
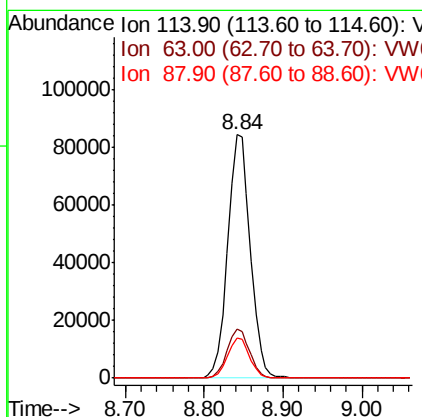
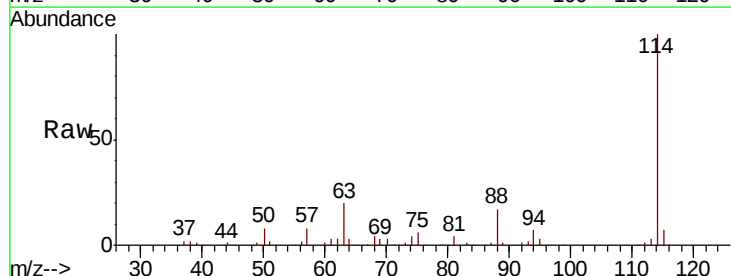
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW120418

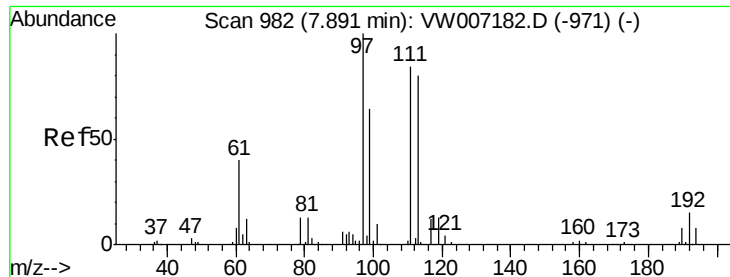
Tot Ion: 65 Resp: 49379  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 106.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.01 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

Tgt Ion: 114 Resp: 167712  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 40.2  
 88 16.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.204 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

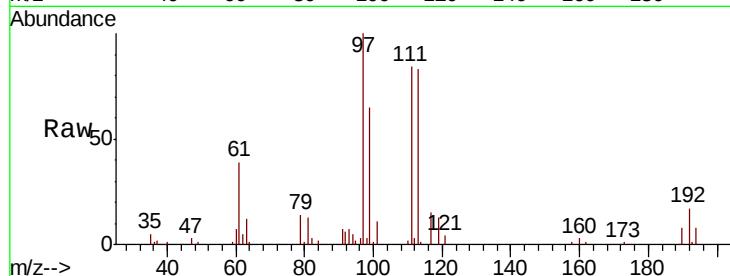
Tot Ion:113 Resp: 47251

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

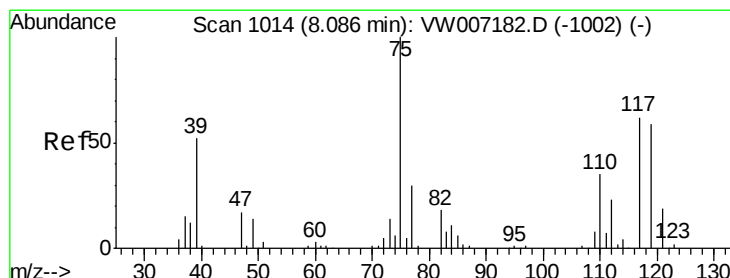
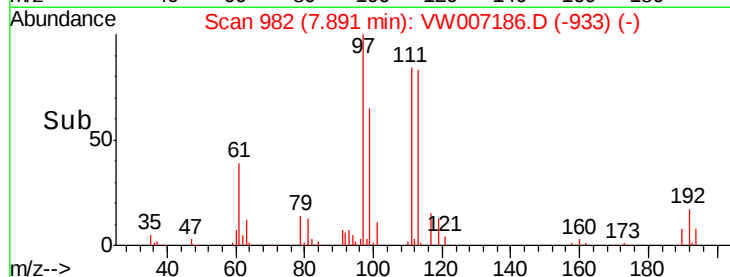
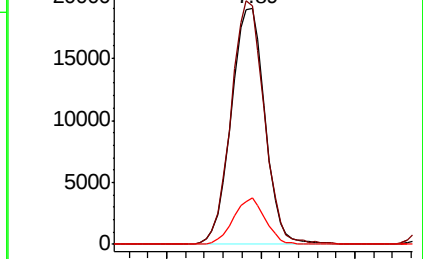
192 18.5 14.4 21.6



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: 49.695 ug/l

RT: 8.09 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

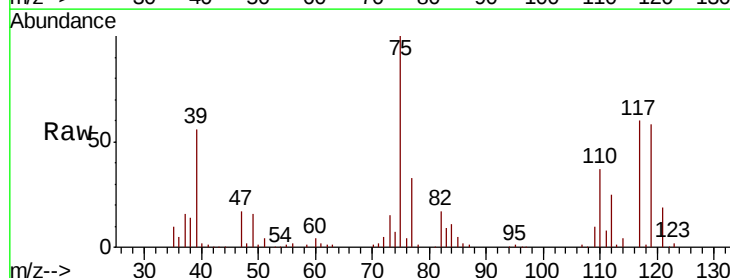
Tgt Ion: 75 Resp: 81096

Ion Ratio Lower Upper

75 100

110 37.0 18.3 54.9

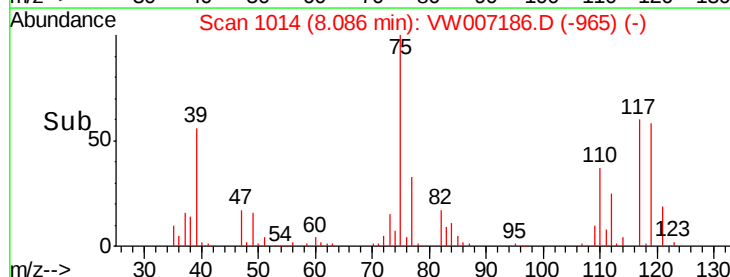
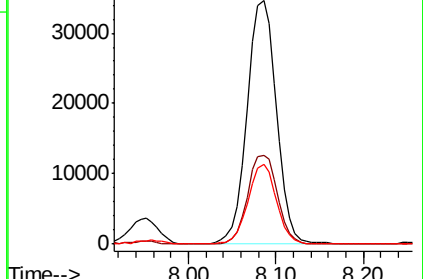
77 31.6 24.9 37.3

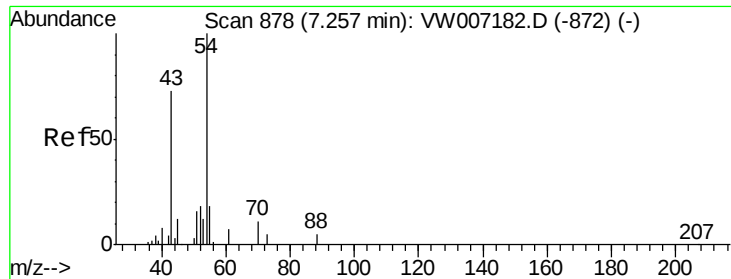


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

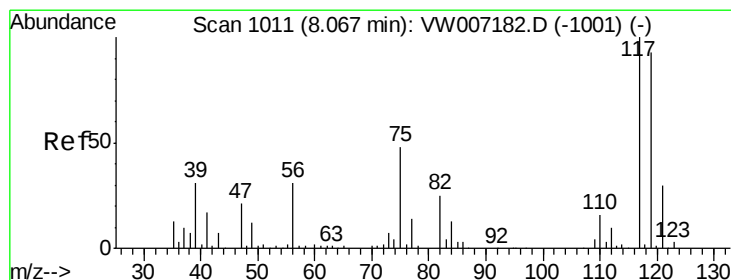
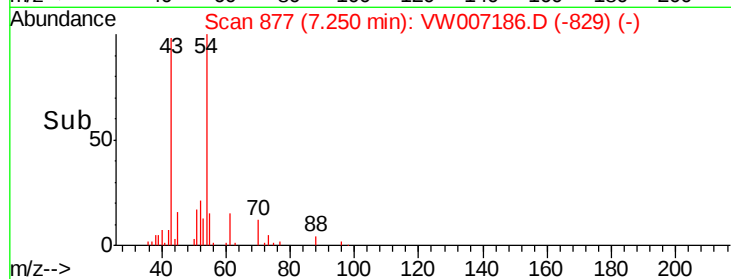
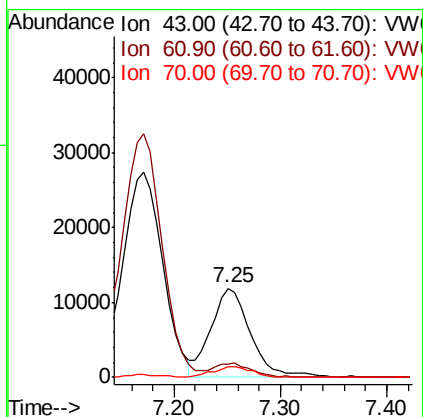
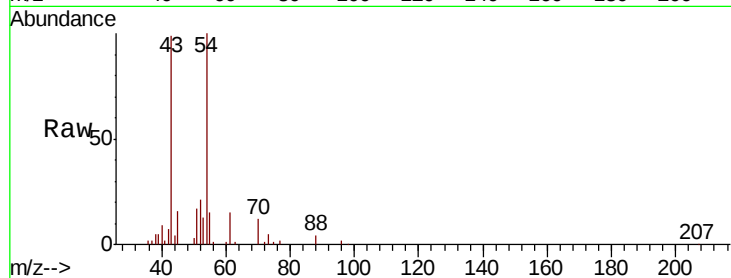




#37  
Ethyl Acetate  
Concen: 51.212 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

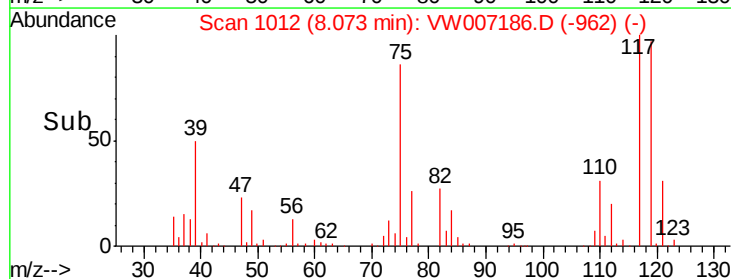
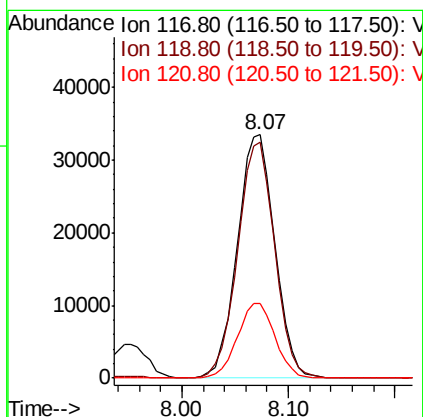
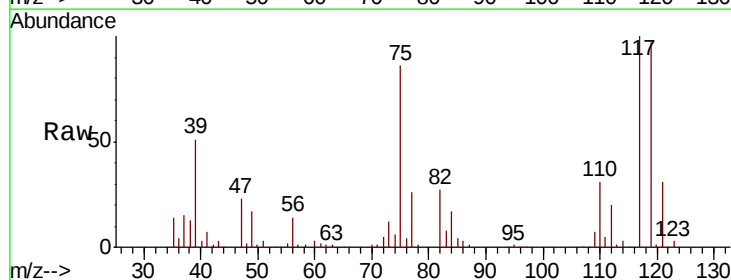
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVWV120418

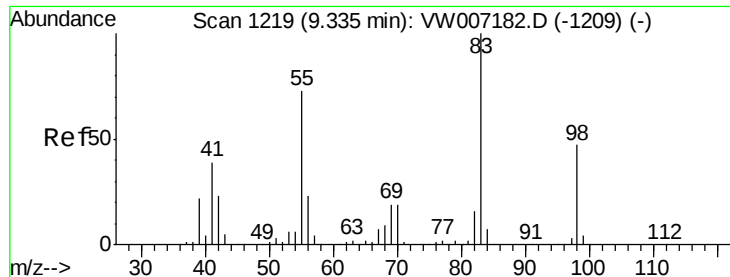
Tot Ion: 43 Resp: 30230  
Ion Ratio Lower Upper  
43 100  
61 14.6 12.1 18.1  
70 11.9 9.1 13.7



#38  
Carbon Tetrachloride  
Concen: 49.719 ug/l  
RT: 8.07 min Scan# 1012  
Delta R.T. 0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 117 Resp: 82812  
Ion Ratio Lower Upper  
117 100  
119 96.9 74.1 111.1  
121 30.6 23.9 35.9

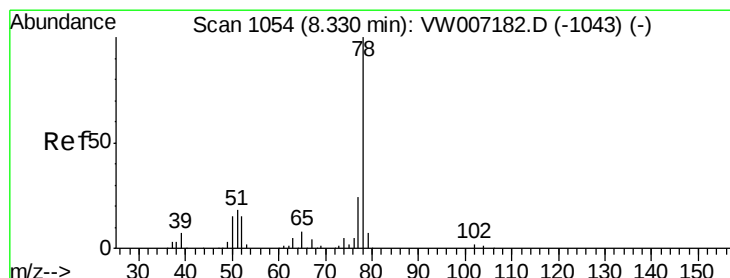
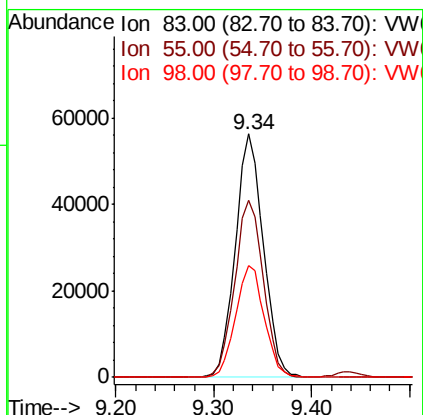
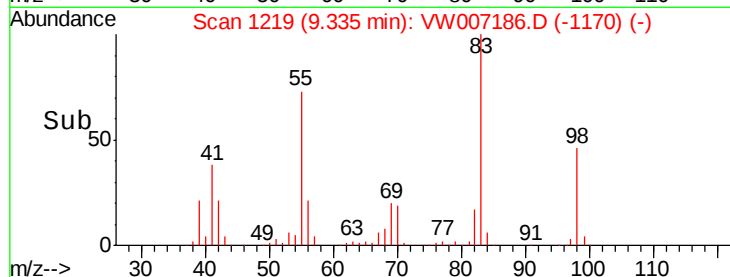
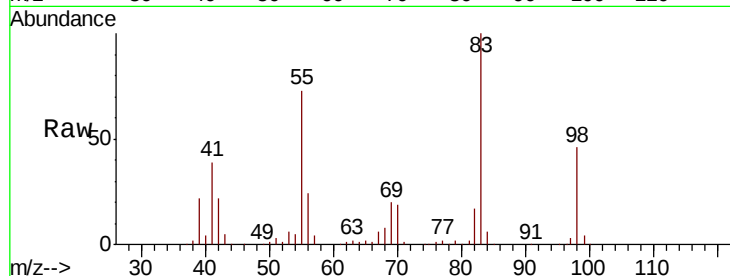




#39  
Methvlcvclohexane  
Concen: 51.204 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

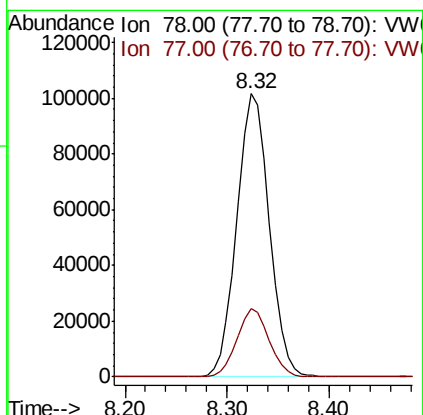
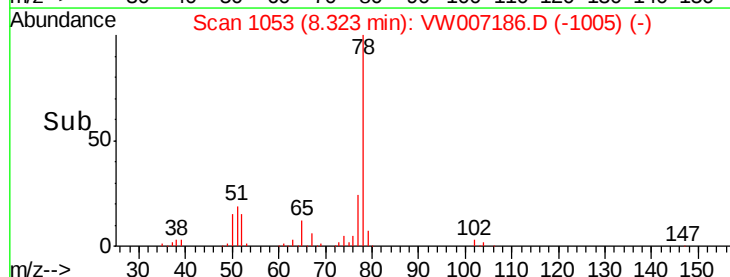
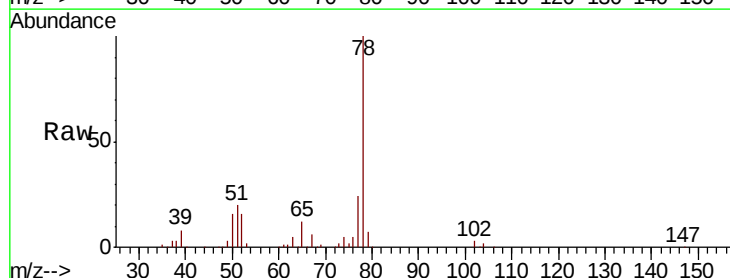
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

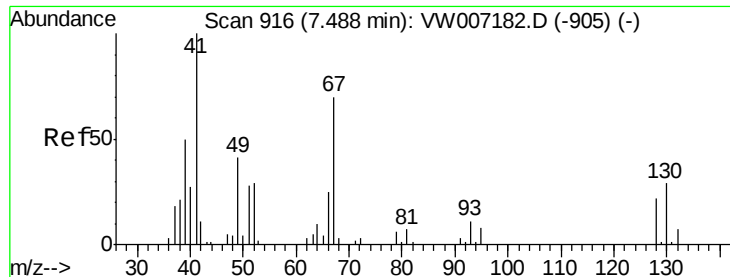
Tot Ion: 83 Resp: 111858  
Ion Ratio Lower Upper  
83 100  
55 72.9 58.1 87.1  
98 46.0 37.3 55.9



#40  
Benzene  
Concen: 50.187 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 78 Resp: 224576  
Ion Ratio Lower Upper  
78 100  
77 24.0 18.9 28.3

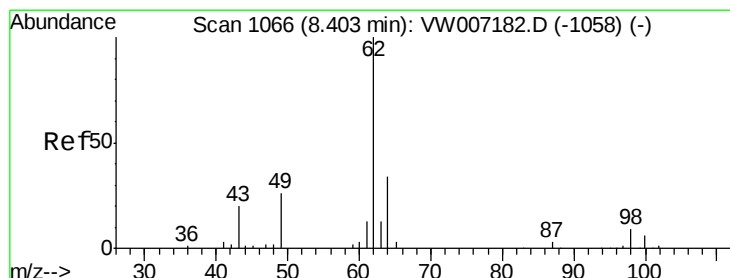
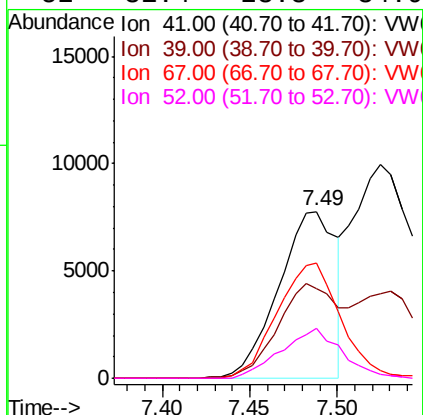
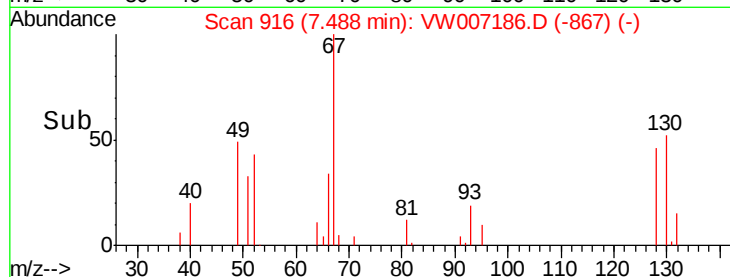
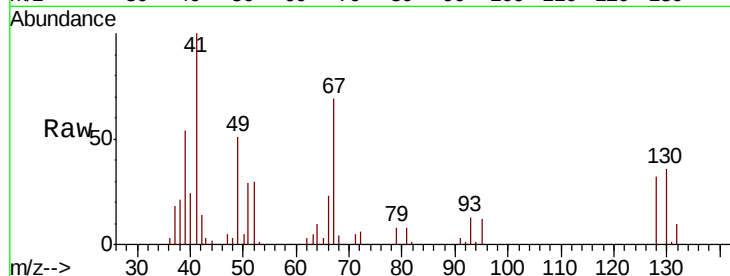




#41  
Methacrylonitrile  
Concen: 50.576 ug/l  
RT: 7.49 min Scan# 916  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

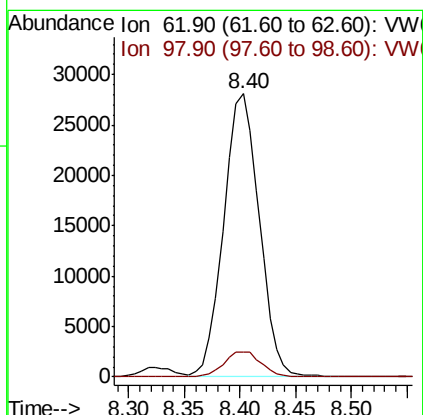
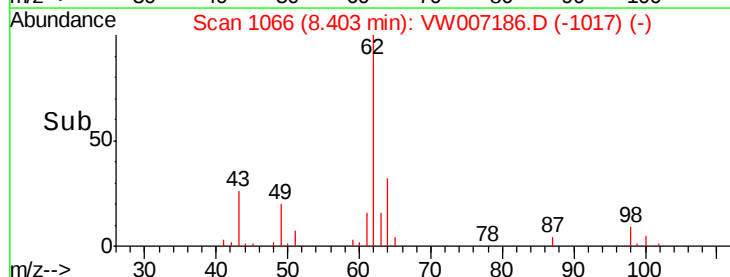
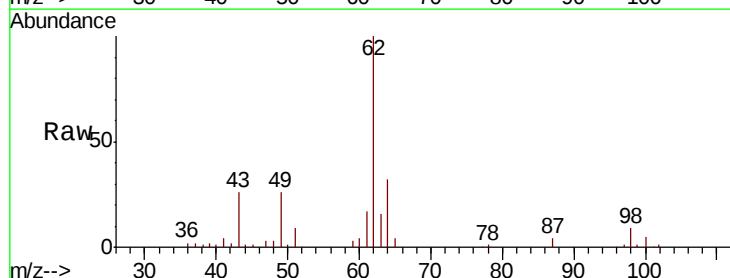
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 17882 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 62.6  | 43.4  | 65.0  |
| 67       | 75.9  | 57.4  | 86.0  |
| 52       | 31.4  | 23.3  | 34.9  |



#42  
1,2-Dichloroethane  
Concen: 49.825 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 62312 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.2   | 0.0   | 17.8  |





#43

Isopropyl Acetate

Concen: 51.995 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

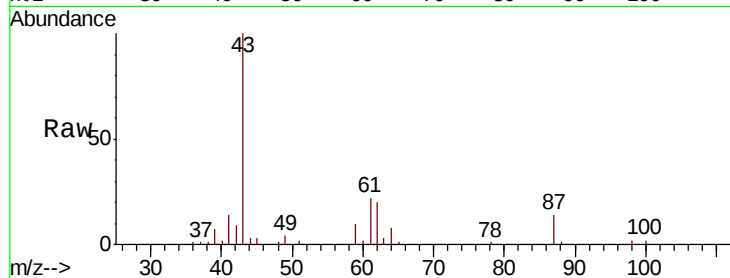
Tot Ion: 43 Resp: 59610

Ion Ratio Lower Upper

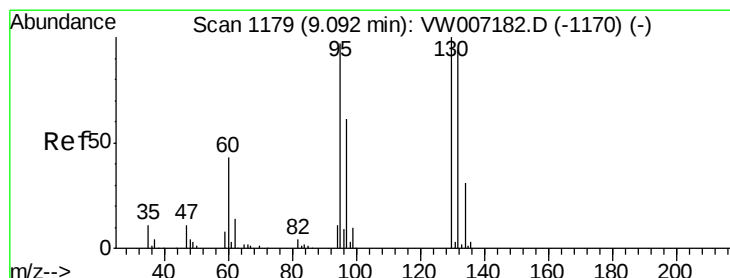
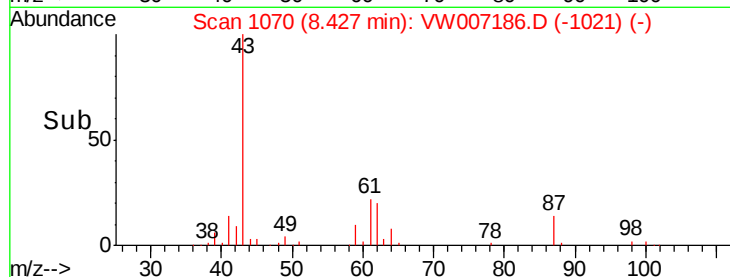
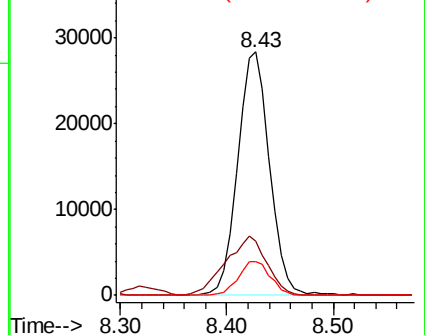
43 100

61 30.9 25.4 38.0

87 14.1 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 50.170 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW007186.D

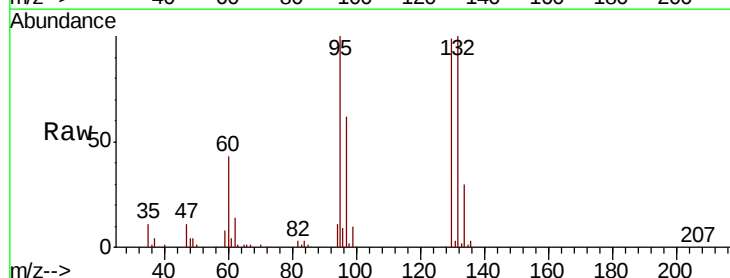
Acq: 04 Dec 2018 14:29

Tgt Ion:130 Resp: 63105

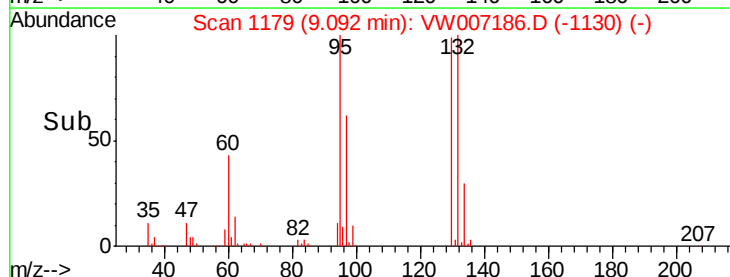
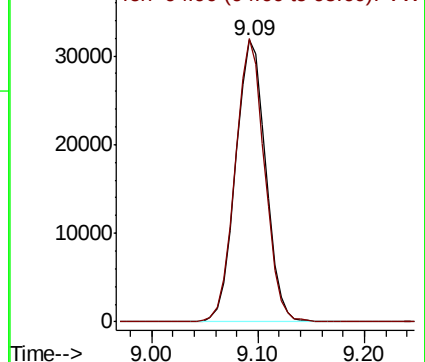
Ion Ratio Lower Upper

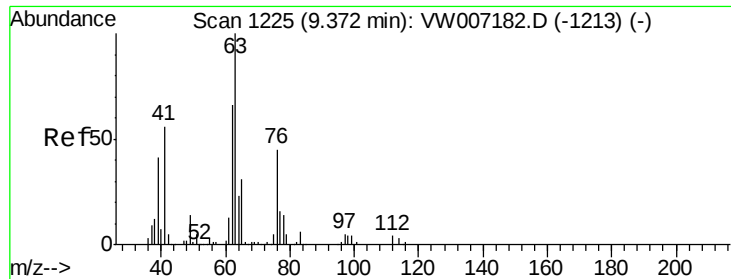
130 100

95 100.5 0.0 194.0



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): VW

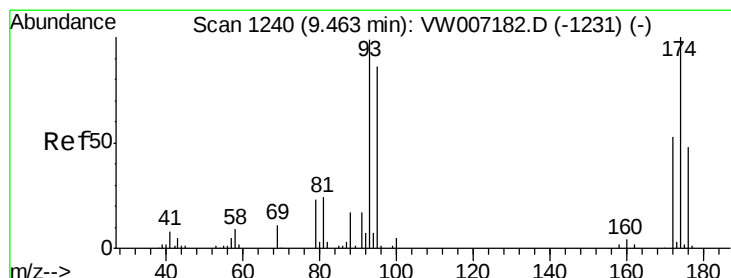
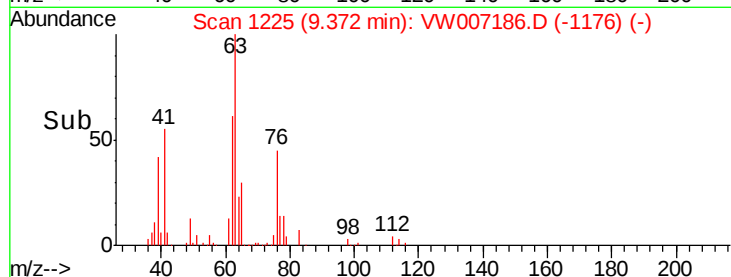
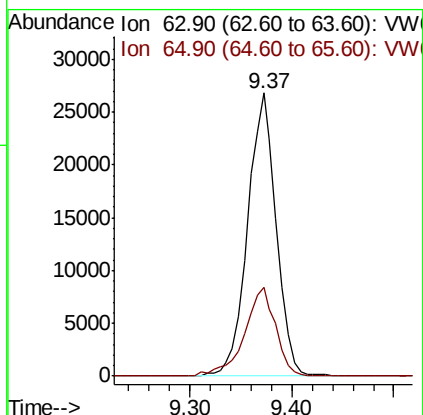
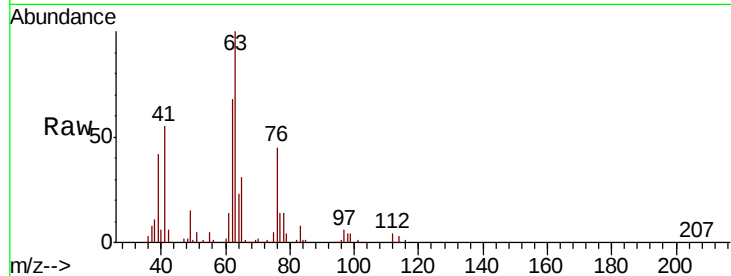




#45  
 1,2-Dichloropropane  
 Concen: 50.229 ug/l  
 RT: 9.37 min Scan# 1225  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

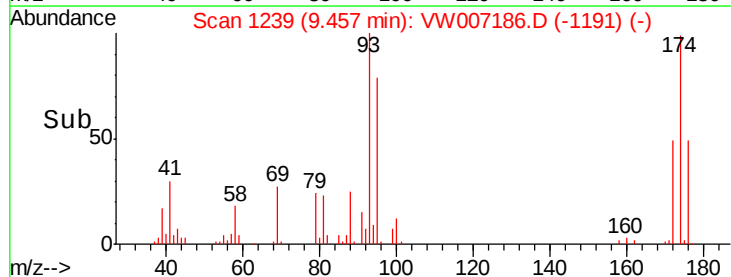
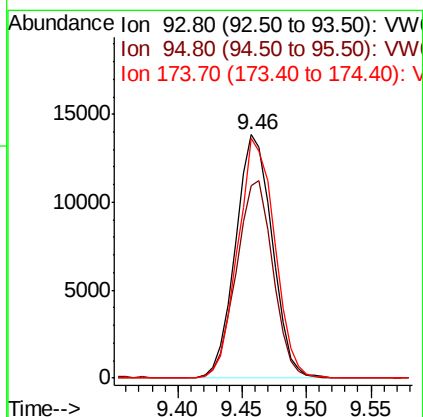
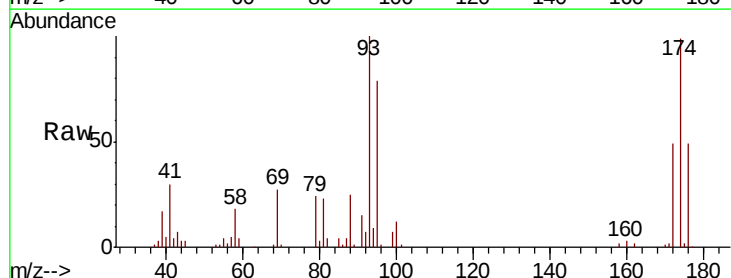
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW120418

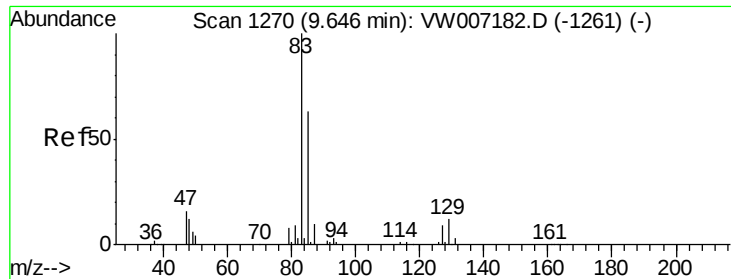
Tot Ion: 63 Resp: 52304  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 25.0 37.4



#46  
 Dibromomethane  
 Concen: 50.446 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.01 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

Tgt Ion: 93 Resp: 27296  
 Ion Ratio Lower Upper  
 93 100  
 95 81.2 68.7 103.1  
 174 99.3 82.9 124.3

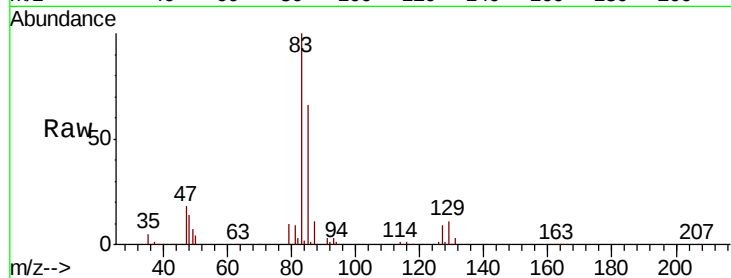




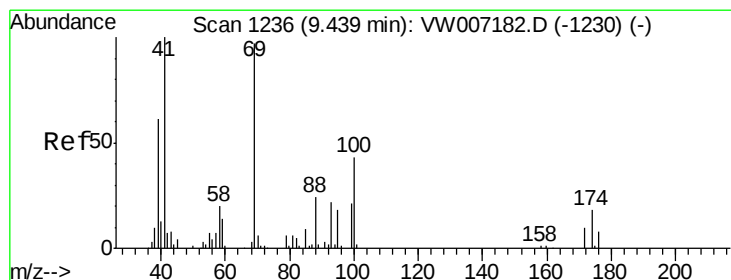
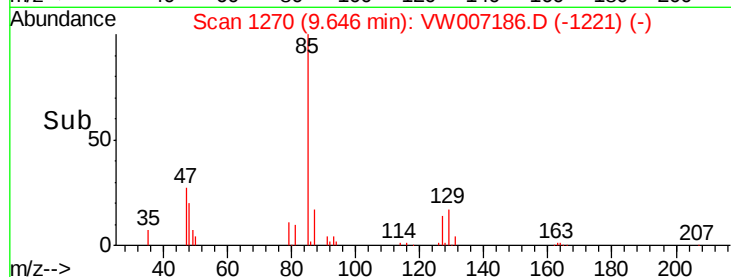
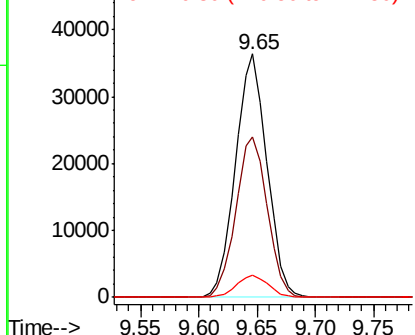
#47  
Bromodichloromethane  
Concen: 48.197 ug/l  
RT: 9.65 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

| Tot Ion   | 83   | Resp | 68600 |
|-----------|------|------|-------|
| Ion Ratio | 100  |      |       |
| 85        | 65.8 | 50.6 | 76.0  |
| 127       | 9.2  | 7.3  | 10.9  |

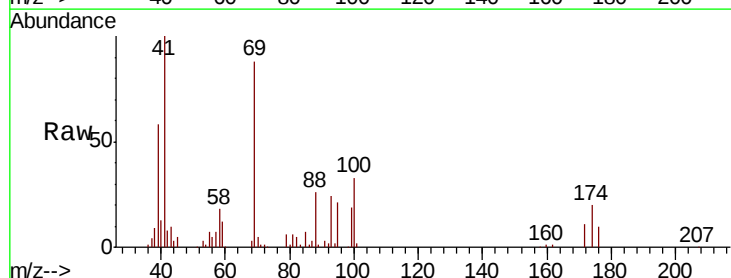


Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW  
Ion 126.80 (126.50 to 127.50): V

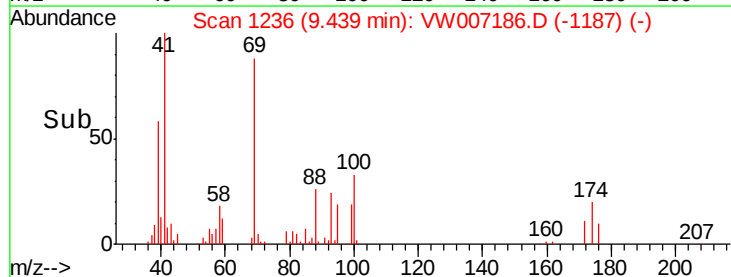
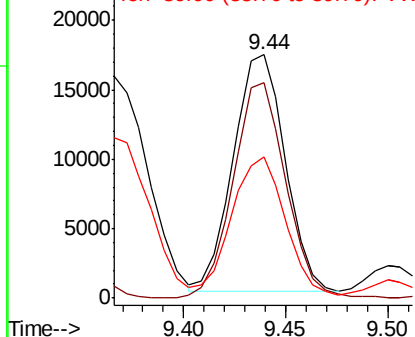


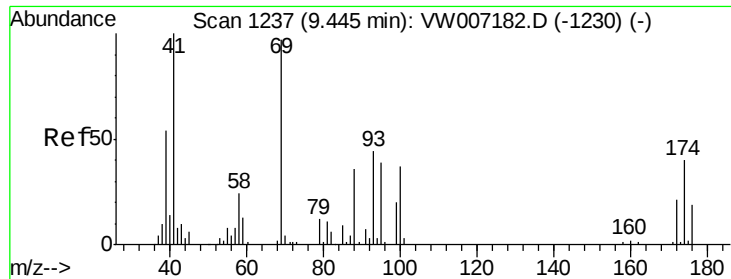
#48  
Methyl methacrylate  
Concen: 50.914 ug/l  
RT: 9.44 min Scan# 1236  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

| Tgt Ion   | 41   | Resp | 30295 |
|-----------|------|------|-------|
| Ion Ratio | 100  |      |       |
| 69        | 92.6 | 69.6 | 104.4 |
| 39        | 58.8 | 42.4 | 63.6  |



Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 39.00 (38.70 to 39.70): VW

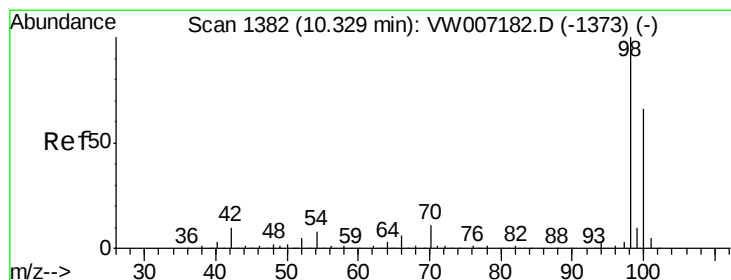
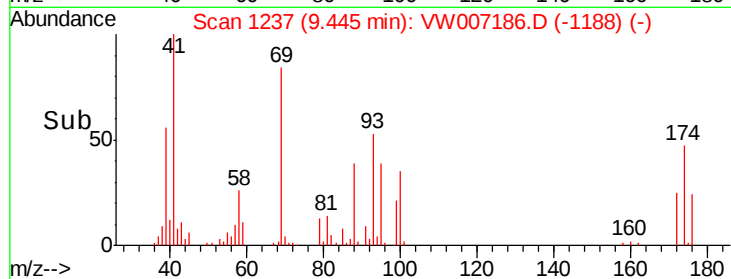
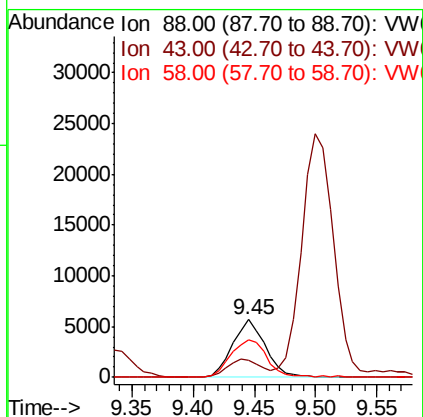
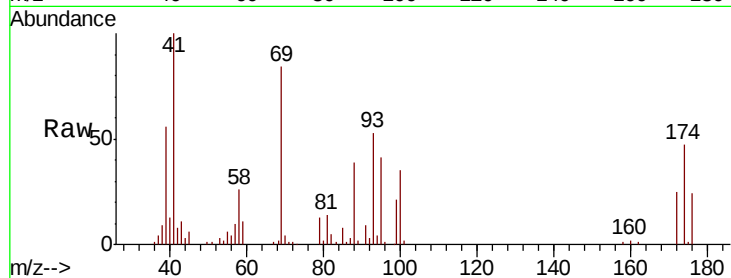




#49  
 1,4-Dioxane  
 Concen: 1114.634 ug/l  
 RT: 9.45 min Scan# 1237  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

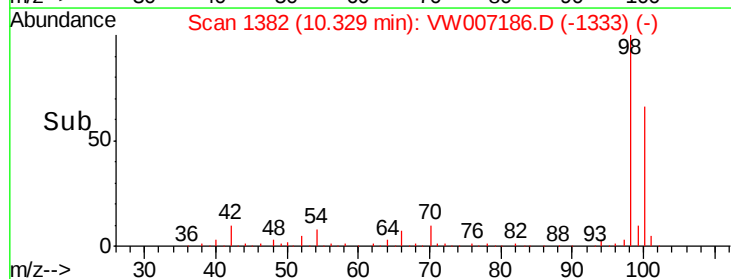
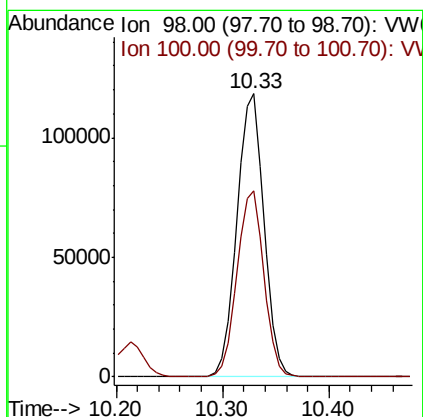
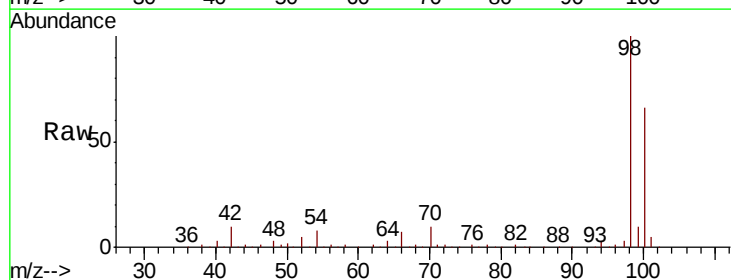
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW120418

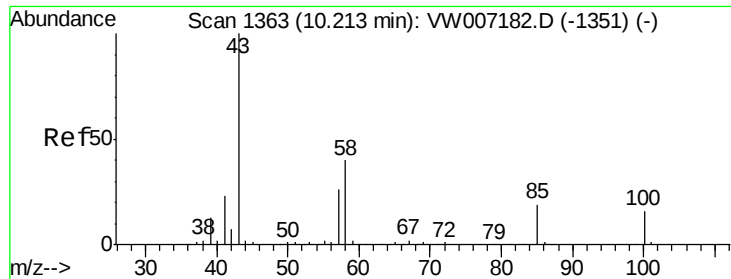
Tot Ion: 88 Resp: 10536  
 Ion Ratio Lower Upper  
 88 100  
 43 31.3 25.8 38.8  
 58 70.8 58.9 88.3



#50  
 Toluene-d8  
 Concen: 50.030 ug/l  
 RT: 10.33 min Scan# 1382  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

Tgt Ion: 98 Resp: 211635  
 Ion Ratio Lower Upper  
 98 100  
 100 65.4 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 268.946 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

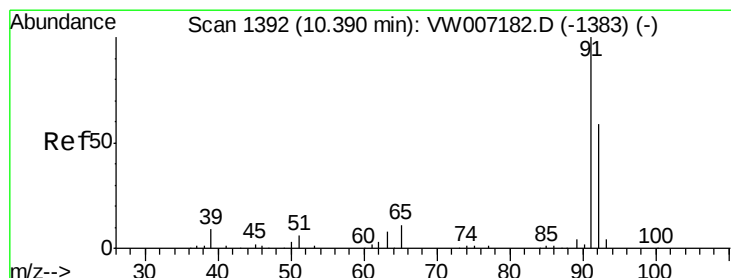
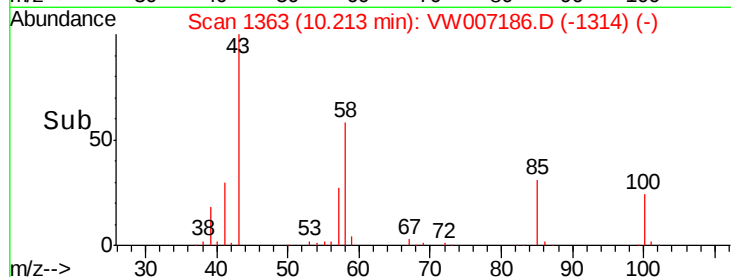
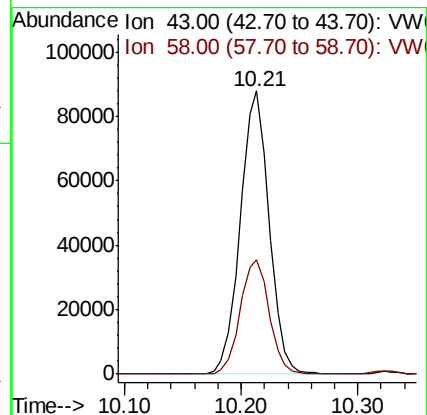
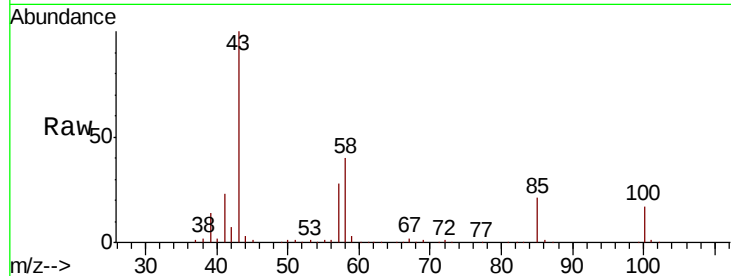
ICVW120418

Tot Ion: 43 Resp: 151948

Ion Ratio Lower Upper

43 100

58 40.7 32.3 48.5



#52

Toluene

Concen: 50.704 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007186.D

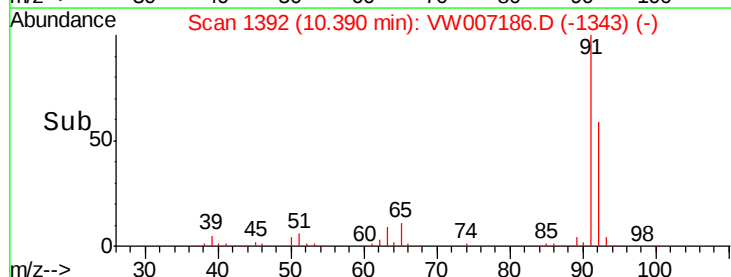
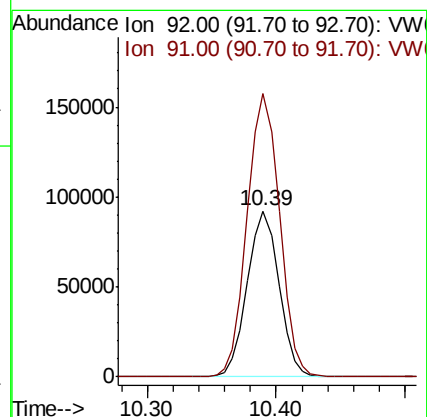
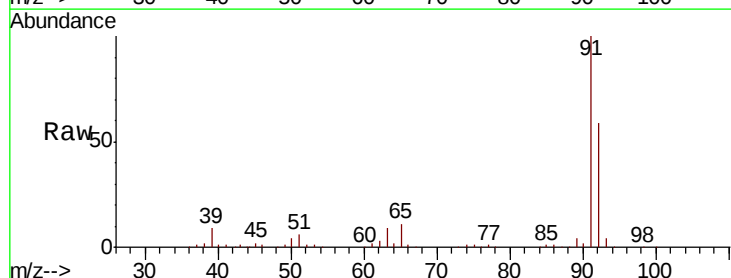
Acq: 04 Dec 2018 14:29

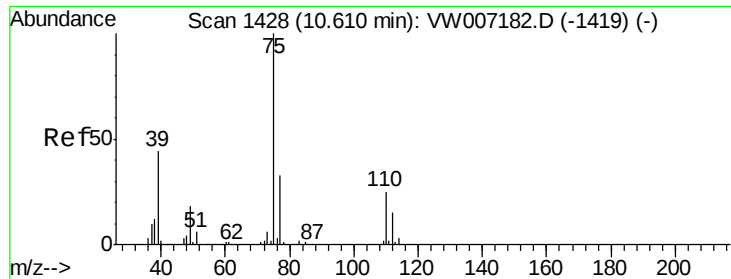
Tgt Ion: 92 Resp: 157829

Ion Ratio Lower Upper

92 100

91 173.9 136.0 204.0





#53

t-1,3-Dichloropropene

Concen: 51.659 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

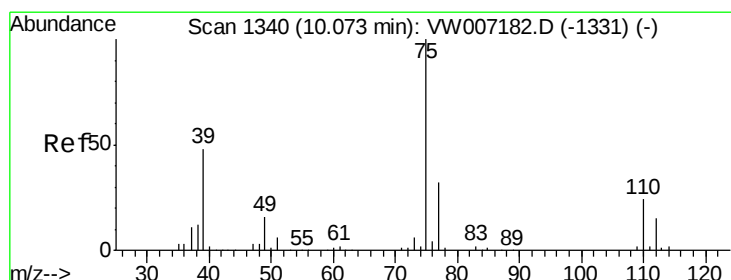
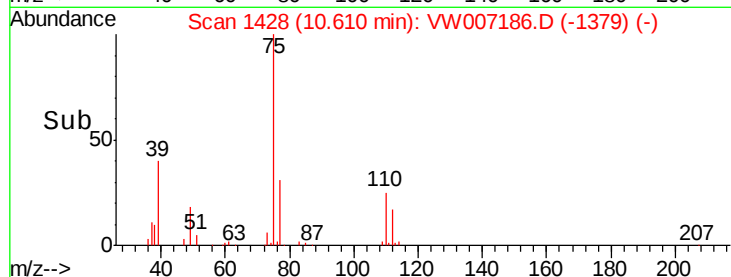
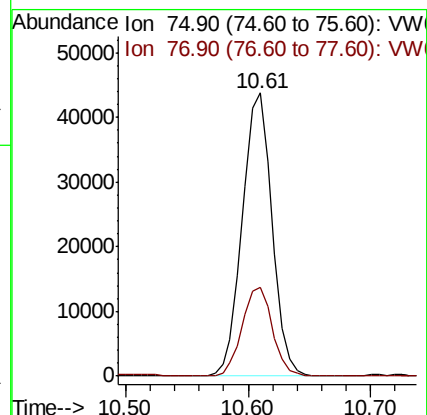
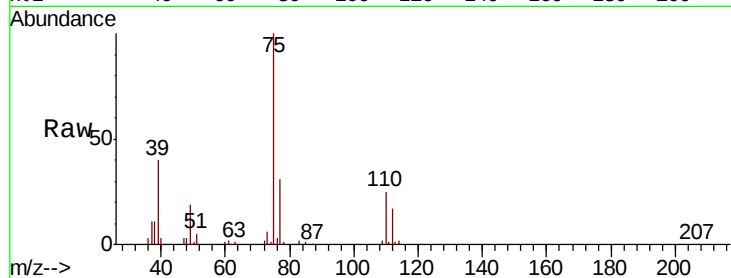
ICVWV120418

Tot Ion: 75 Resp: 73924

Ion Ratio Lower Upper

75 100

77 31.1 26.2 39.2



#54

cis-1,3-Dichloropropene

Concen: 50.078 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

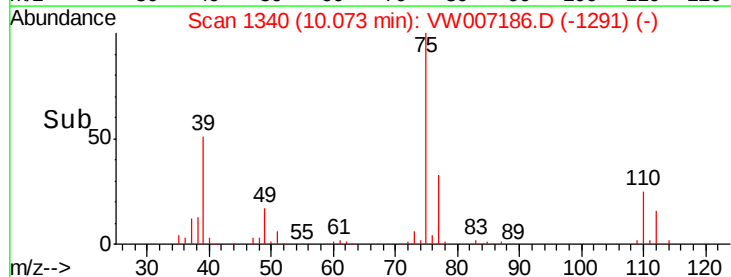
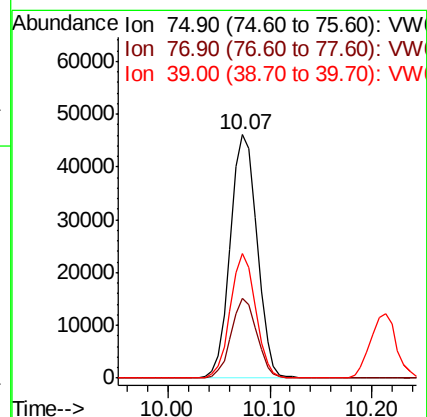
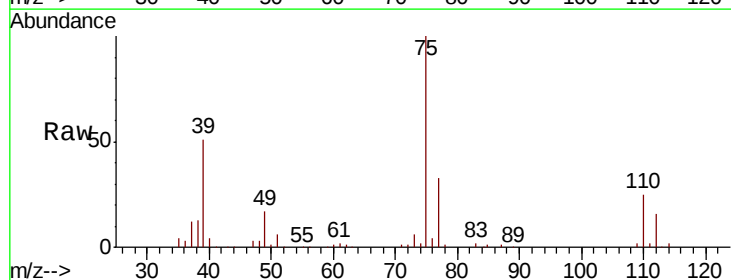
Tgt Ion: 75 Resp: 83982

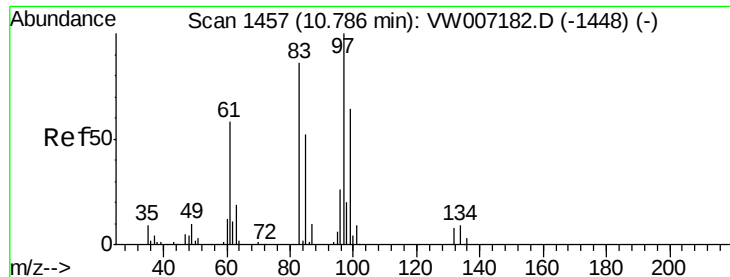
Ion Ratio Lower Upper

75 100

77 32.9 26.0 39.0

39 51.3 38.0 57.0

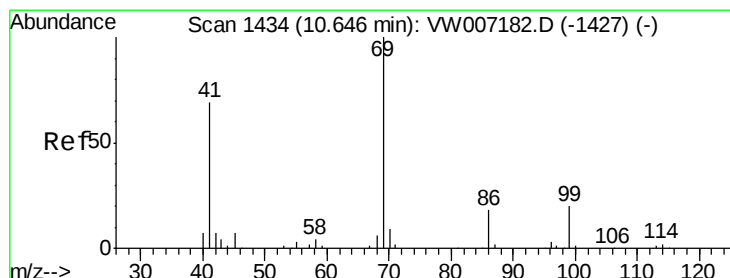
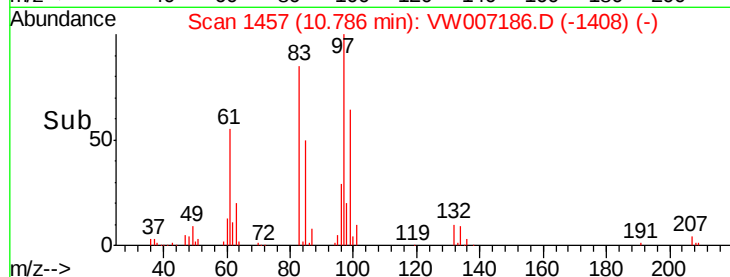
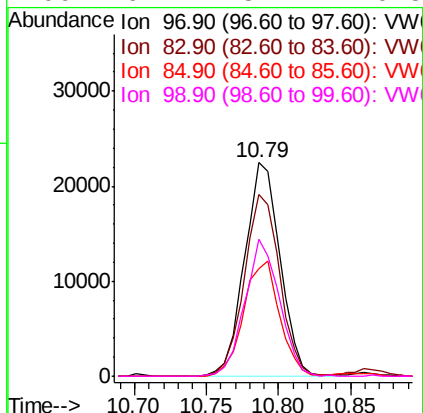
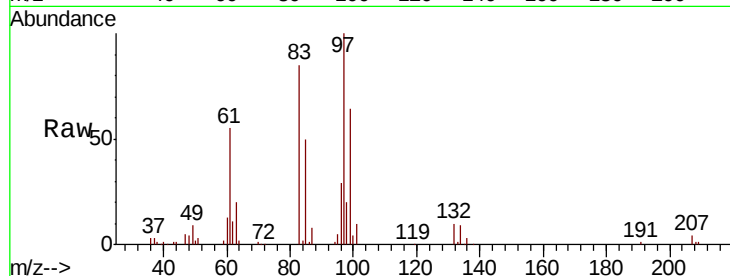




#55  
 1,1,2-Trichloroethane  
 Concen: 49.908 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

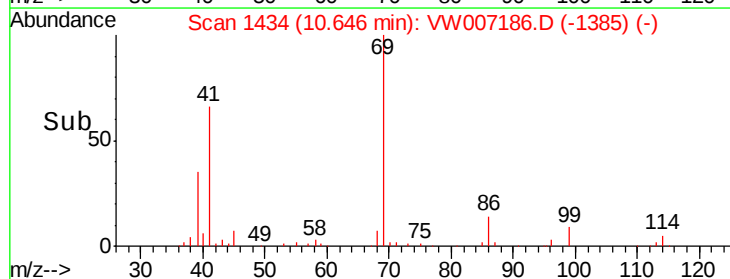
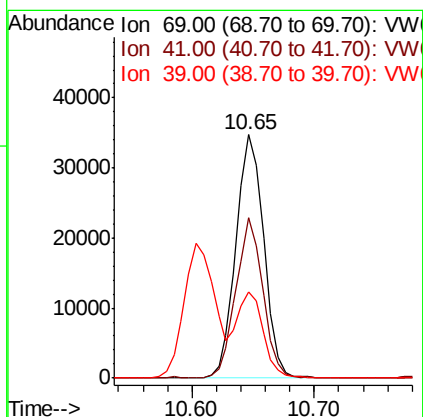
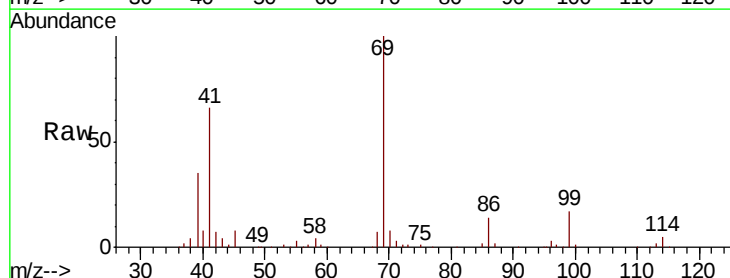
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW120418

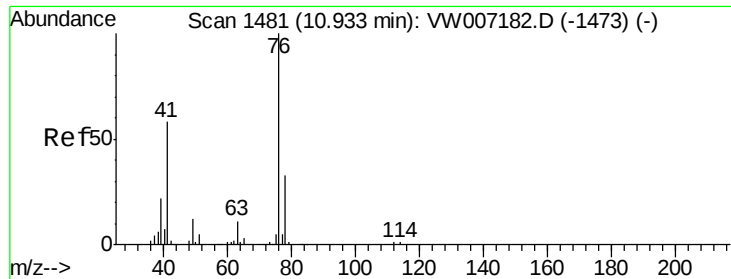
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 38413 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 84.9  | 68.6  | 102.8 |
| 85       | 50.4  | 41.4  | 62.2  |
| 99       | 64.4  | 51.2  | 76.8  |



#56  
 Ethyl methacrylate  
 Concen: 54.492 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 54709 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 64.3  | 51.8  | 77.6  |
| 39       | 34.7  | 28.7  | 43.1  |





#57

1,3-Dichloropropane

Concen: 51.021 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

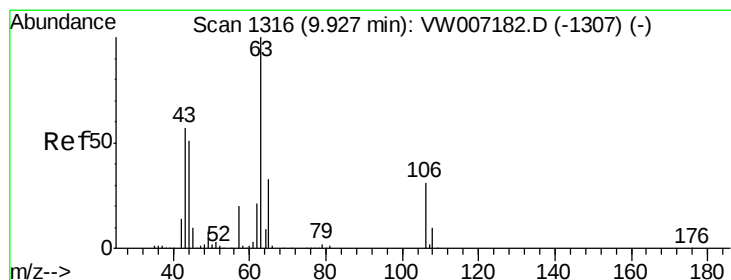
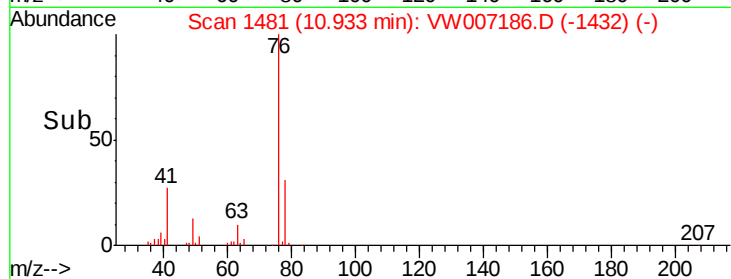
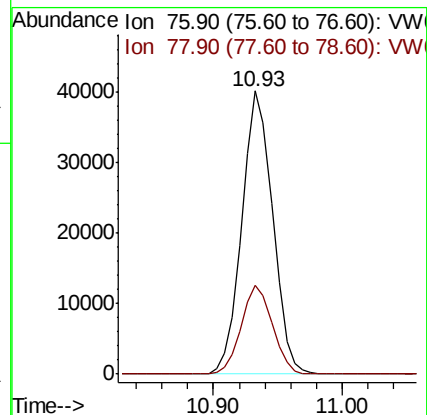
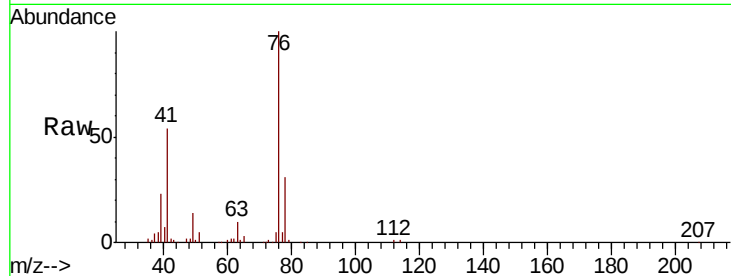
ICVWV120418

Tot Ion: 76 Resp: 66298

Ion Ratio Lower Upper

76 100

78 31.8 26.6 40.0



#58

2-Chloroethyl Vinyl ether

Concen: 255.894 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VW007186.D

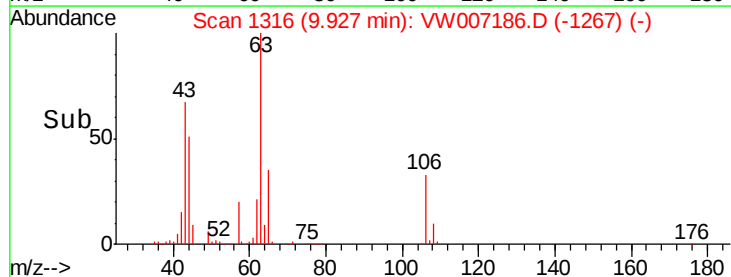
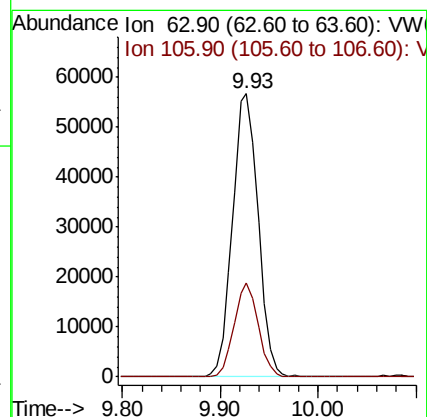
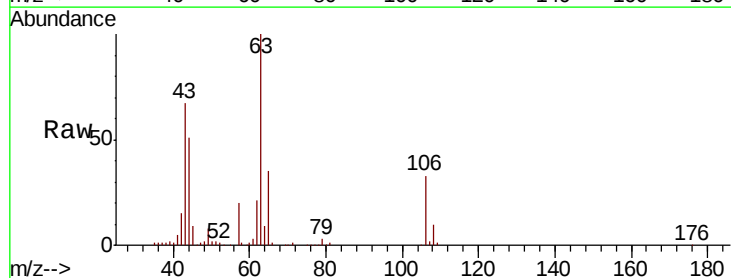
Acq: 04 Dec 2018 14:29

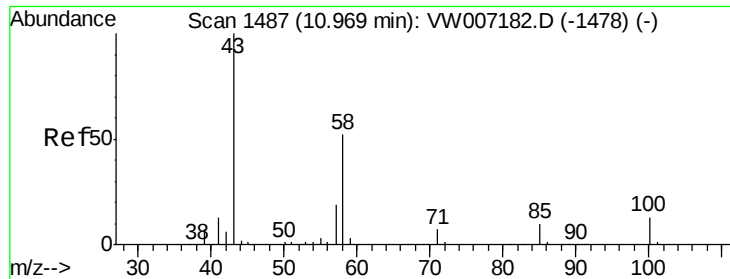
Tgt Ion: 63 Resp: 103193

Ion Ratio Lower Upper

63 100

106 31.2 24.1 36.1





#59

2-Hexanone

Concen: 278.823 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

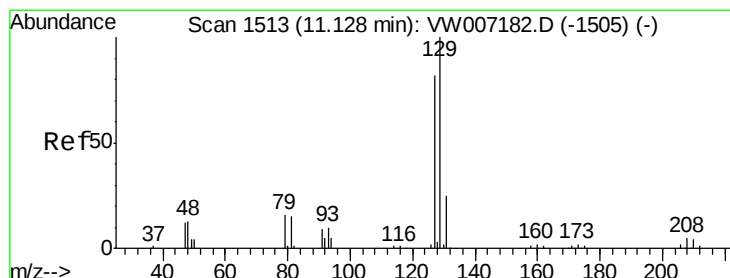
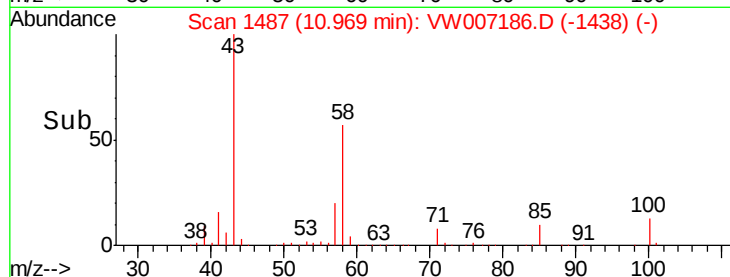
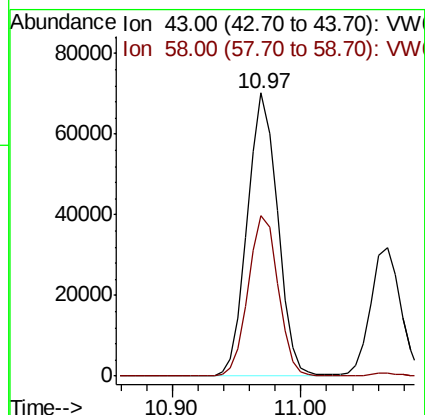
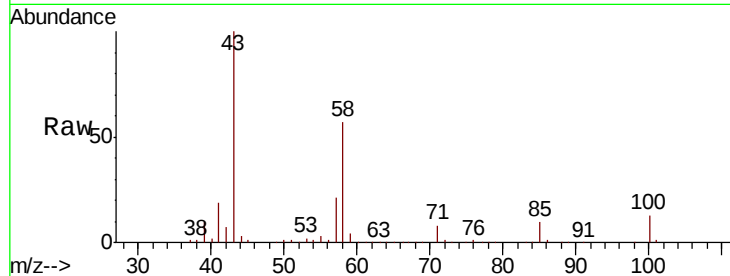
ICVW120418

Tot Ion: 43 Resp: 114195

Ion Ratio Lower Upper

43 100

58 56.1 28.1 84.4



#60

Dibromochloromethane

Concen: 49.959 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW007186.D

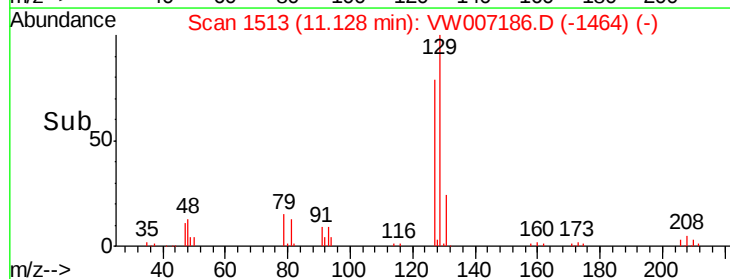
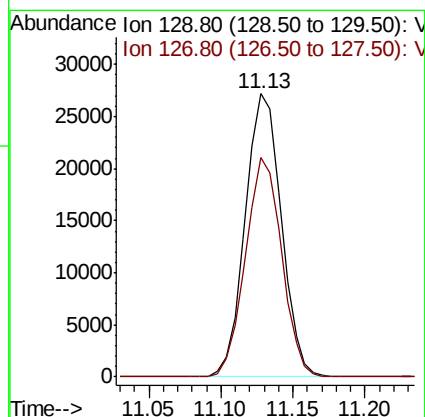
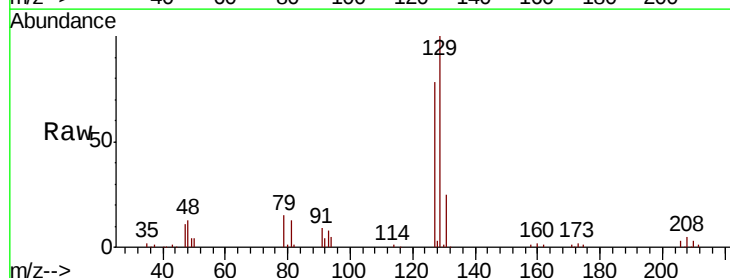
Acq: 04 Dec 2018 14:29

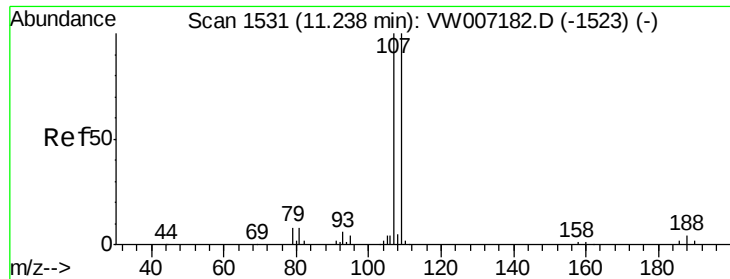
Tgt Ion:129 Resp: 47259

Ion Ratio Lower Upper

129 100

127 77.5 39.8 119.4

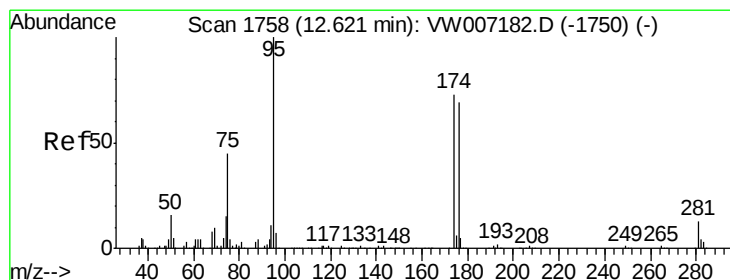
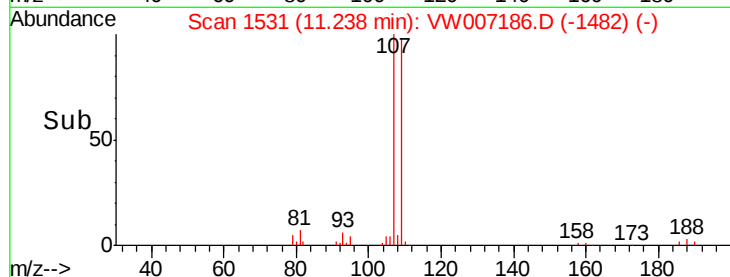
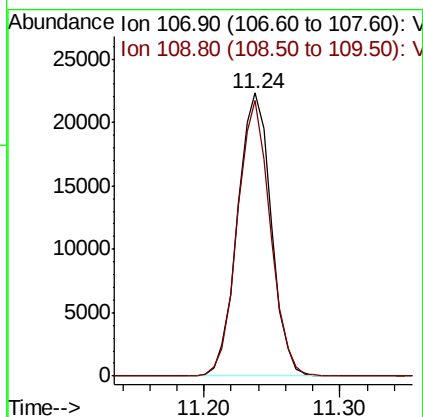
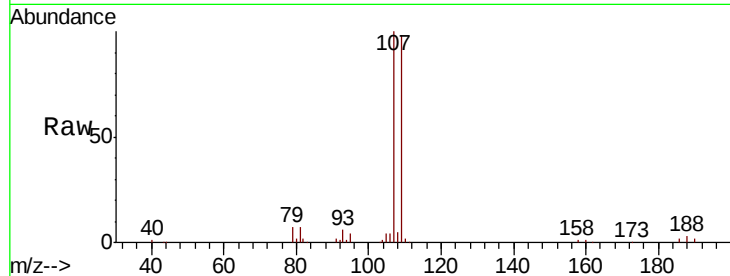




#61  
 1,2-Dibromoethane  
 Concen: 52.136 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

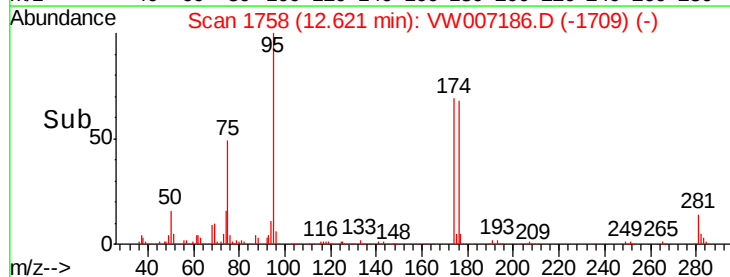
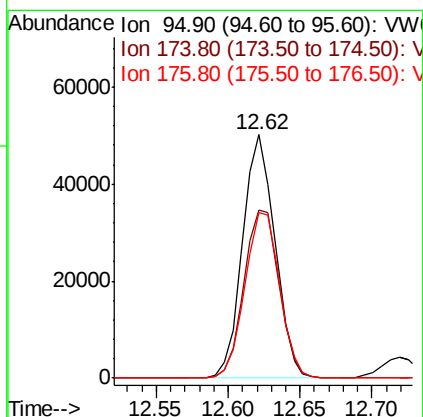
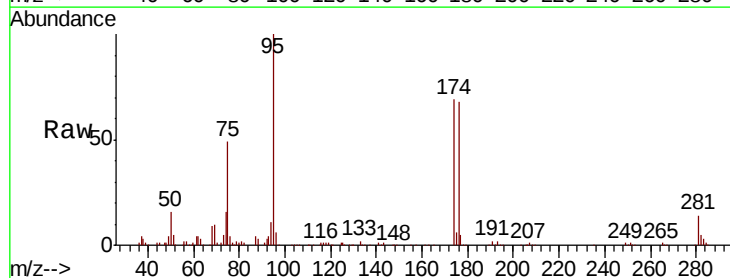
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW120418

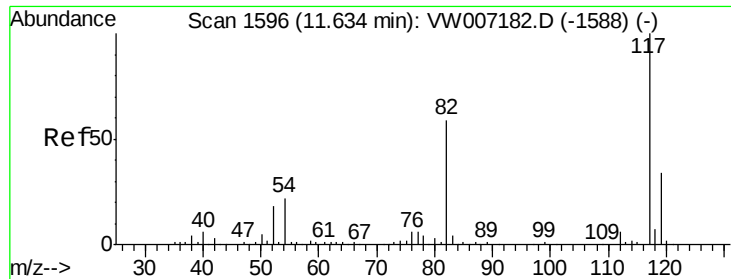
Tot Ion: 107 Resp: 38488  
 Ion Ratio Lower Upper  
 107 100  
 109 95.3 77.3 115.9



#62  
 4-Bromofluorobenzene  
 Concen: 48.888 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

Tgt Ion: 95 Resp: 78057  
 Ion Ratio Lower Upper  
 95 100  
 174 74.6 0.0 148.0  
 176 72.6 0.0 139.4

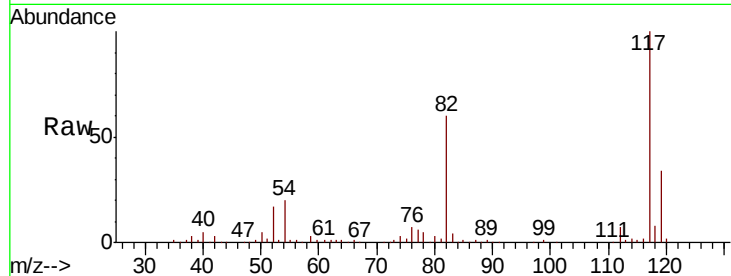




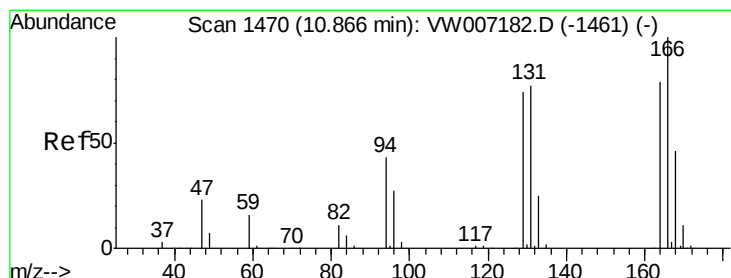
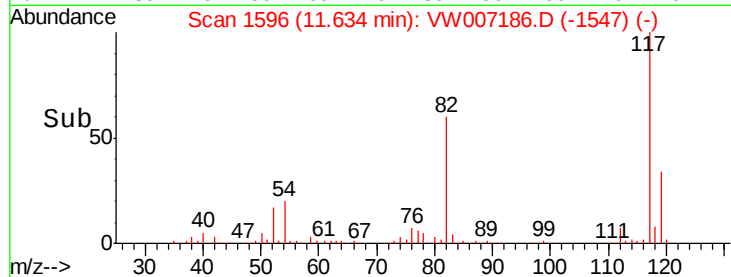
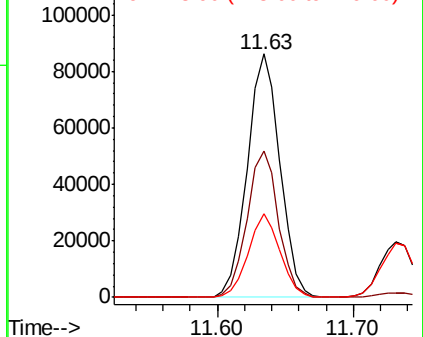
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

Tot Ion:117 Resp: 144837  
Ion Ratio Lower Upper  
117 100  
82 60.3 47.4 71.2  
119 34.2 26.8 40.2

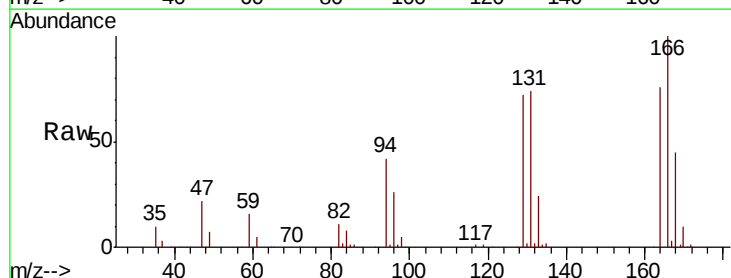


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

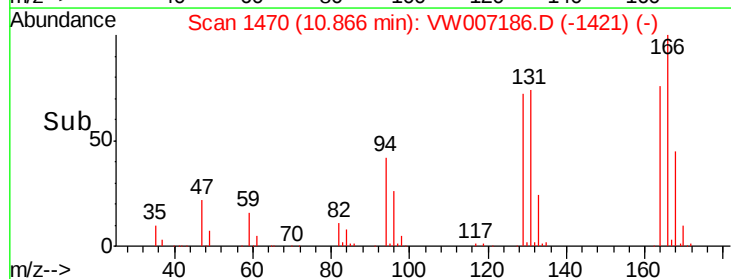
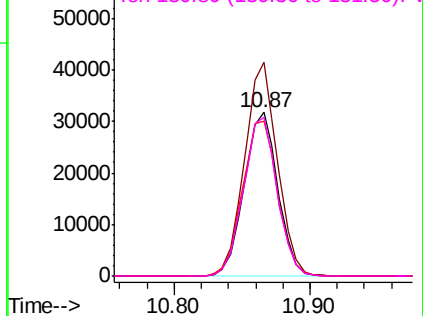


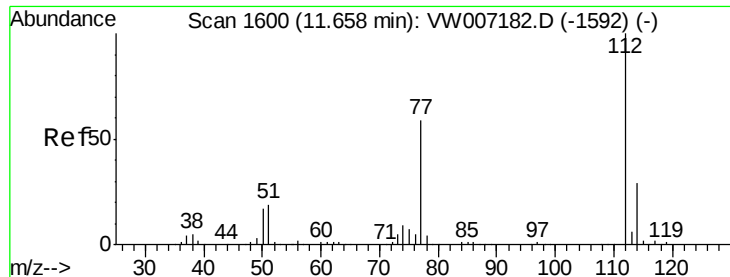
#64  
Tetrachloroethene  
Concen: 51.683 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion:164 Resp: 54691  
Ion Ratio Lower Upper  
164 100  
166 130.8 101.0 151.4  
129 94.8 74.6 111.8  
131 97.3 77.6 116.4



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

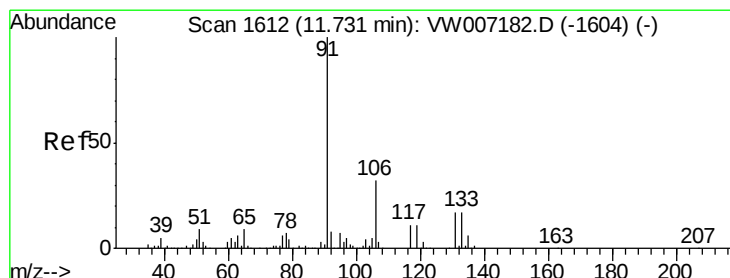
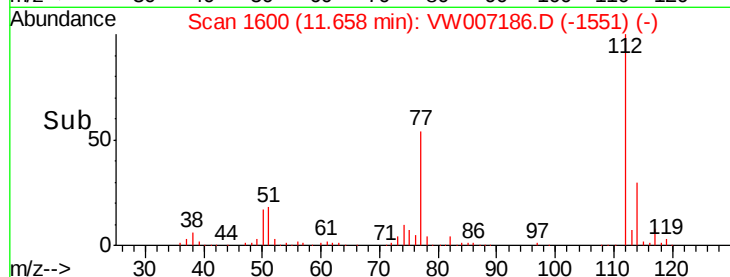
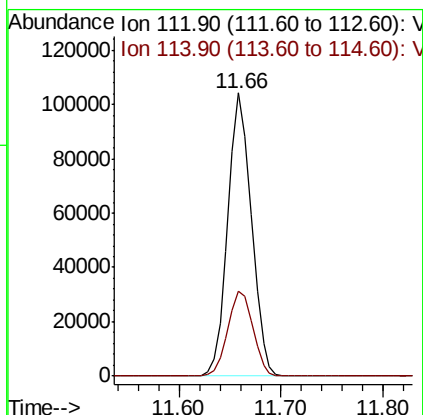
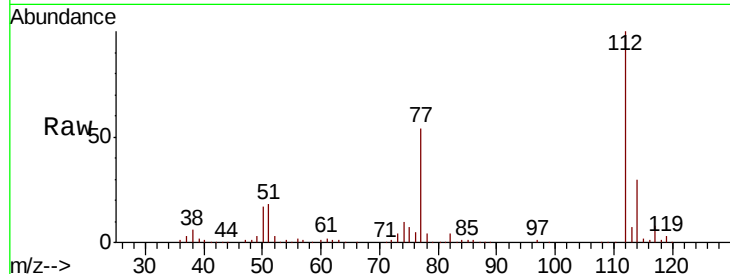




#65  
Chlorobenzene  
Concen: 51.689 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

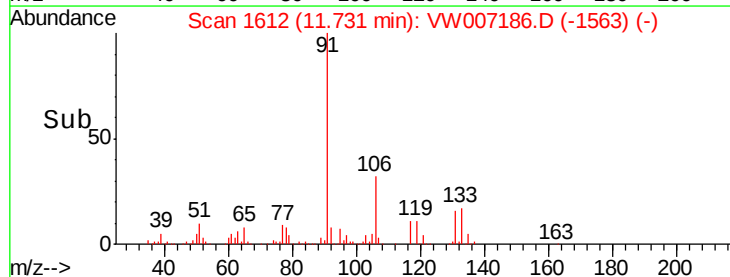
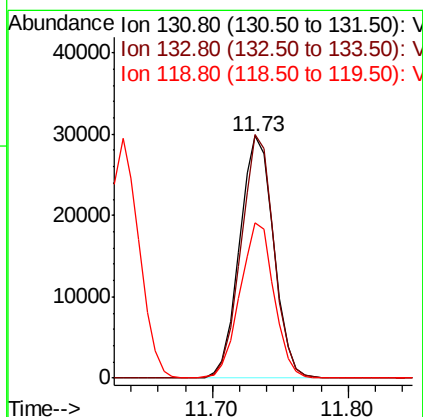
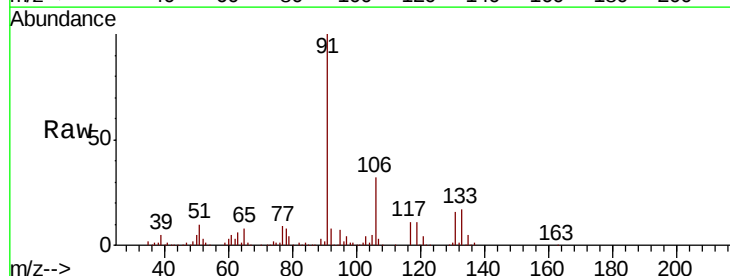
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

Tot Ion:112 Resp: 167202  
Ion Ratio Lower Upper  
112 100  
114 30.0 23.0 34.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 52.105 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion:131 Resp: 52053  
Ion Ratio Lower Upper  
131 100  
133 96.6 48.0 144.2  
119 64.0 32.8 98.4

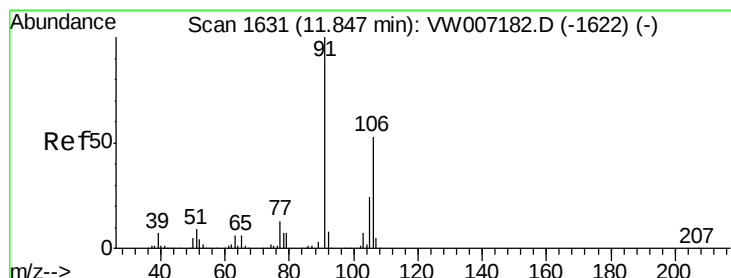
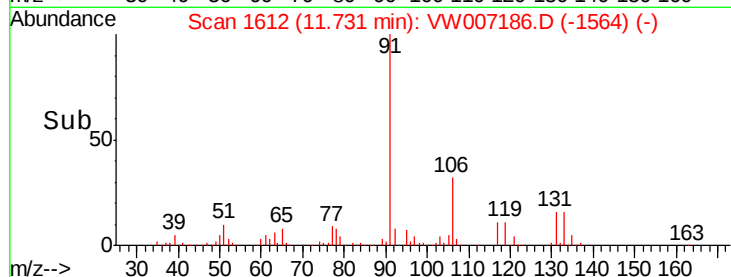
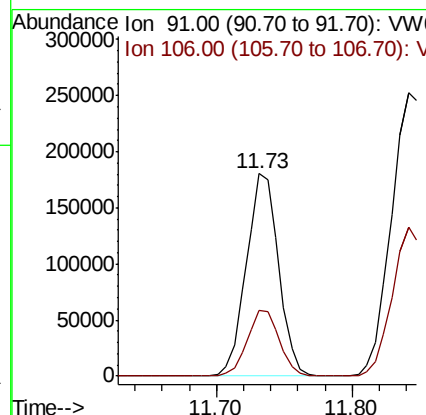
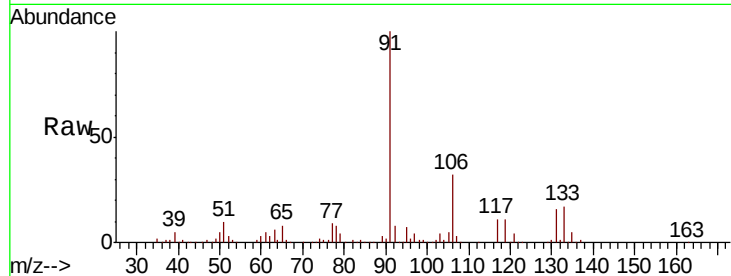




#67  
Ethyl Benzene  
Concen: 50.958 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

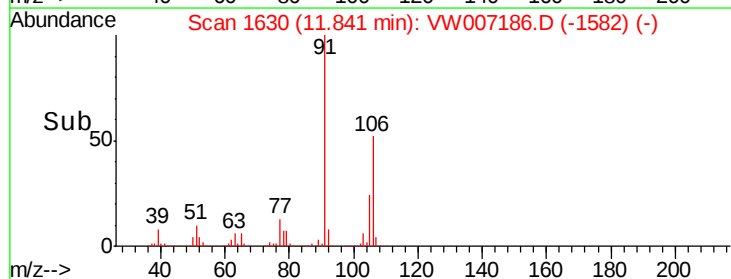
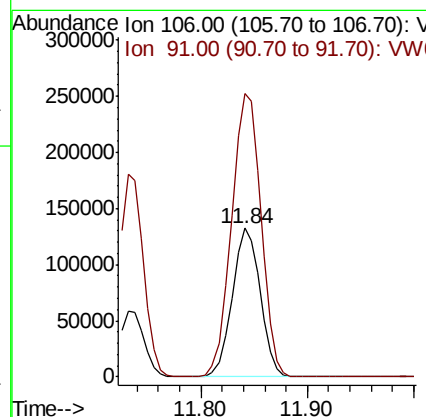
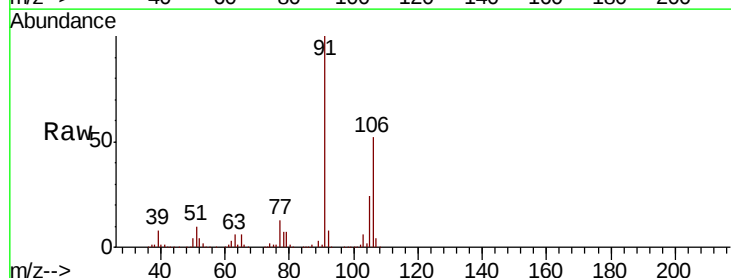
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

Tot Ion: 91 Resp: 300427  
Ion Ratio Lower Upper  
91 100  
106 32.3 26.0 39.0



#68  
m/p-Xylenes  
Concen: 105.262 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.01 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion: 106 Resp: 243460  
Ion Ratio Lower Upper  
106 100  
91 201.3 160.2 240.4

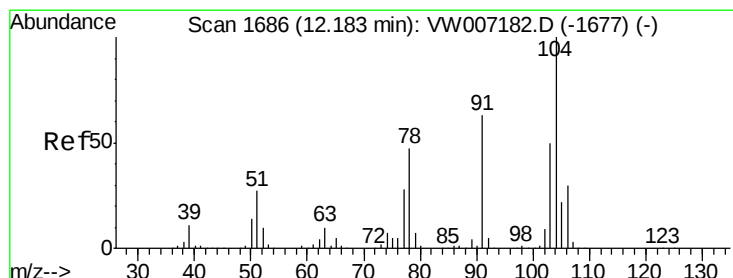
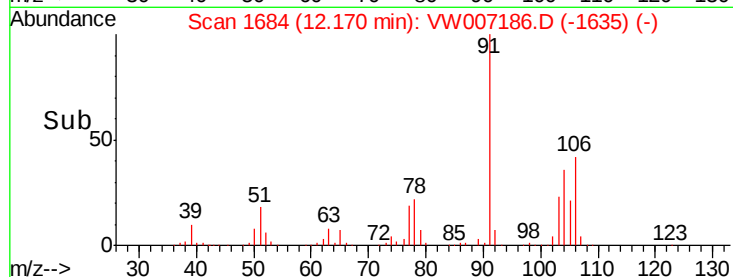
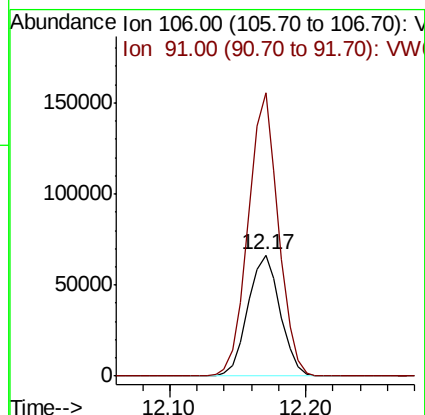
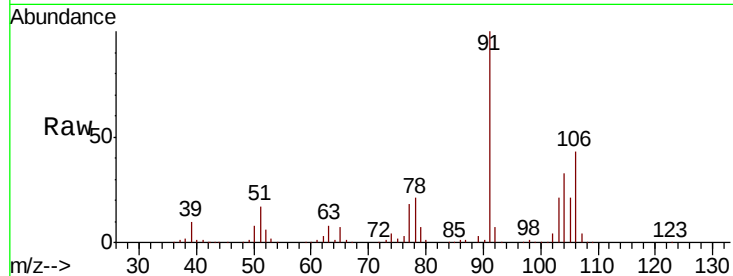




#69  
o-Xylene  
Concen: 51.018 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

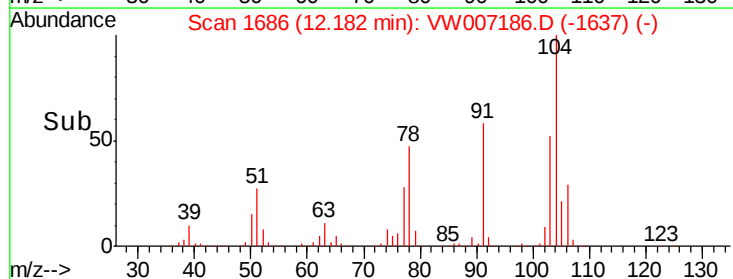
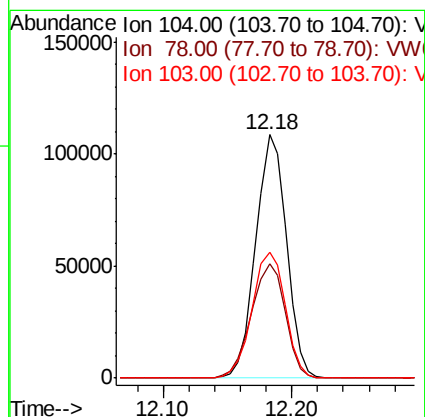
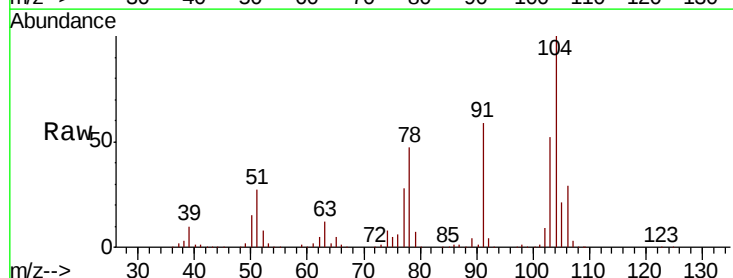
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

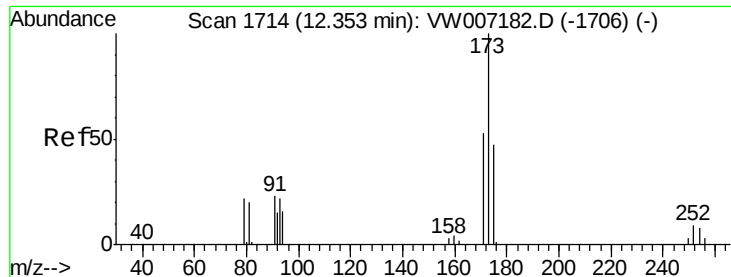
Tot Ion:106 Resp: 110245  
Ion Ratio Lower Upper  
106 100  
91 218.4 104.9 314.7



#70  
Styrene  
Concen: 50.587 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion:104 Resp: 178945  
Ion Ratio Lower Upper  
104 100  
78 52.0 40.6 60.8  
103 56.0 43.0 64.4





#71

Bromoform

Concen: 53.818 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

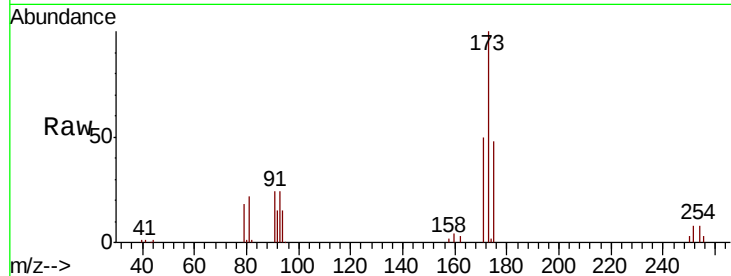
Tot Ion:173 Resp: 26914

Ion Ratio Lower Upper

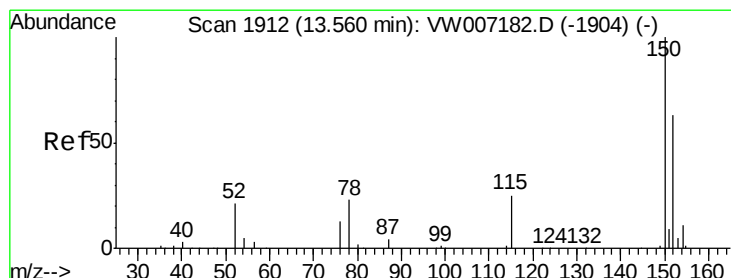
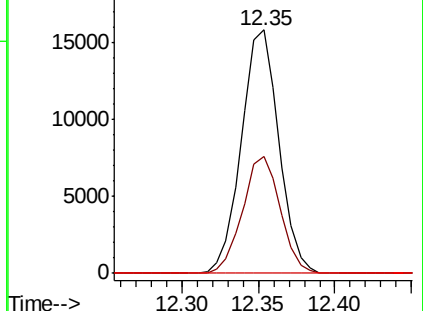
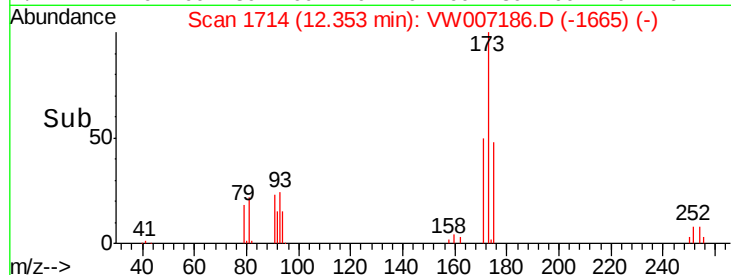
173 100

175 48.1 24.0 72.0

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.01 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

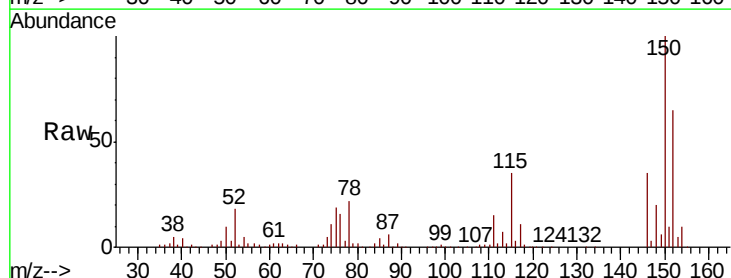
Tgt Ion:152 Resp: 74967

Ion Ratio Lower Upper

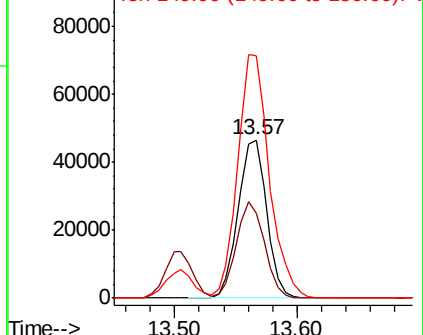
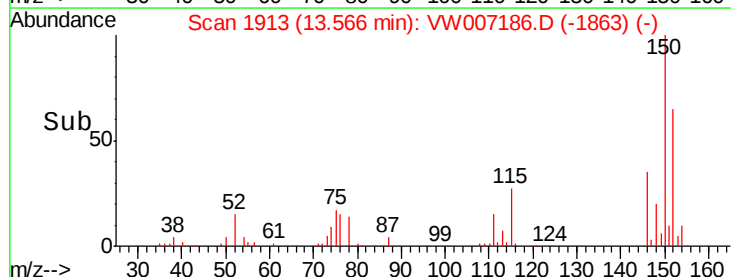
152 100

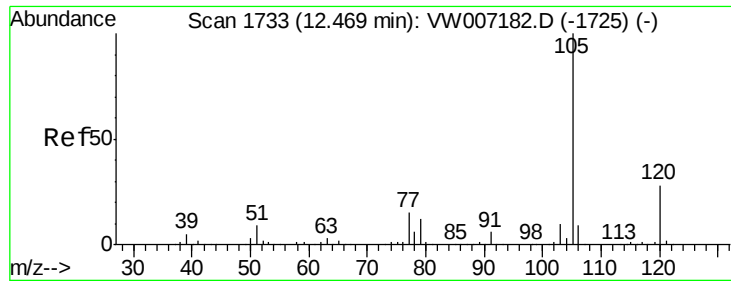
115 60.1 31.3 93.8

150 170.8 0.0 358.0



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





#73

Isopropylbenzene

Concen: 52.260 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

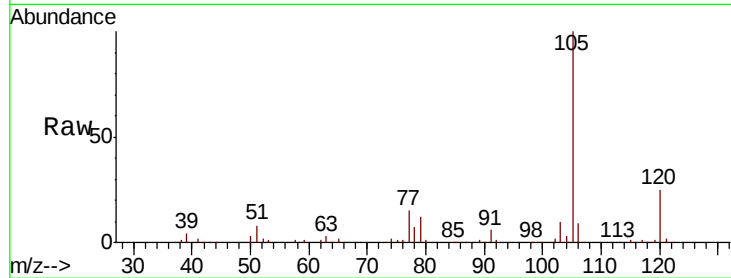
ICVW120418

Tot Ion:105 Resp: 318647

Ion Ratio Lower Upper

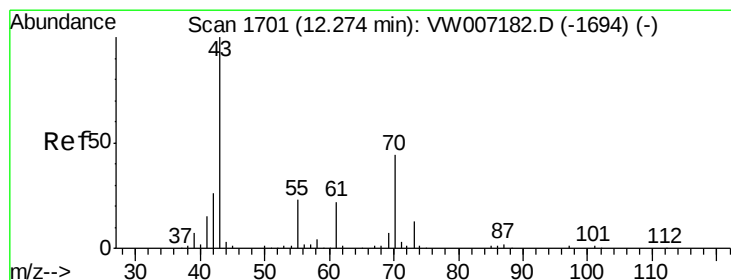
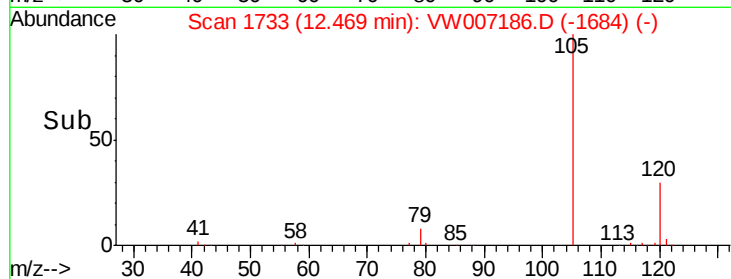
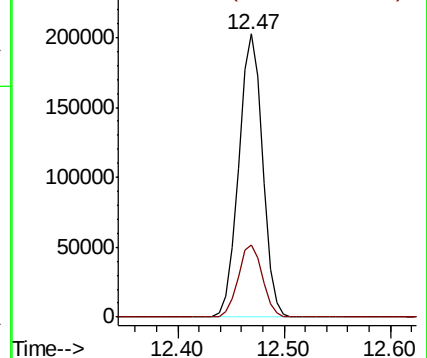
105 100

120 26.0 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 54.300 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Tgt Ion: 43 Resp: 58701

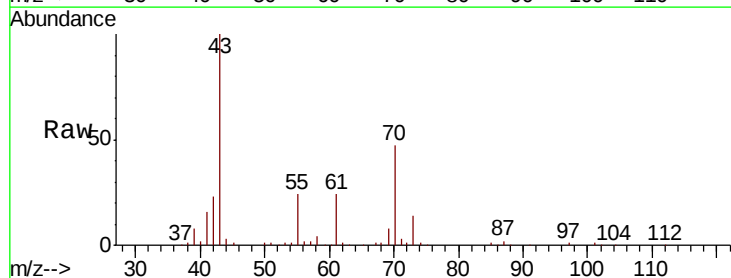
Ion Ratio Lower Upper

43 100

70 44.7 34.0 51.0

55 24.3 19.0 28.6

61 24.6 19.7 29.5

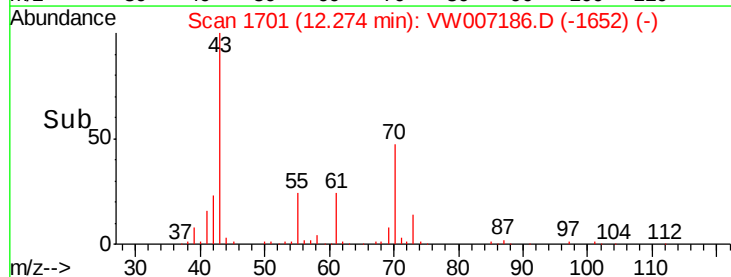
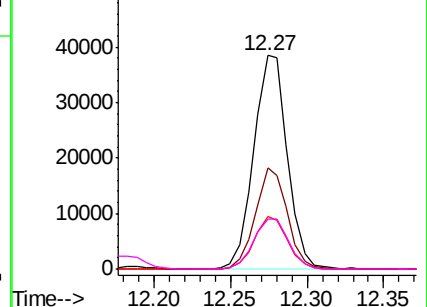


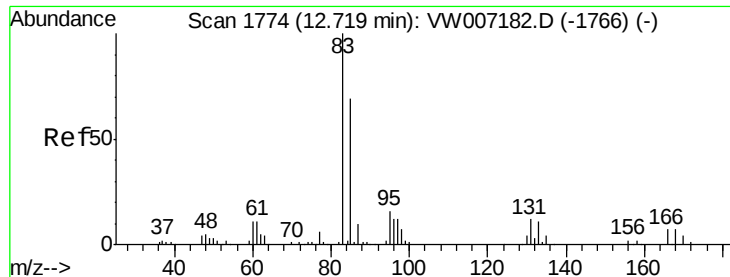
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#75

1,1,2,2-Tetrachloroethane

Concen: 54.663 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

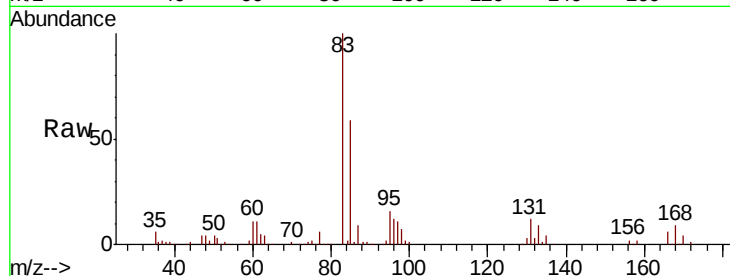
Tot Ion: 83 Resp: 43286

Ion Ratio Lower Upper

83 100

131 11.6 6.0 18.1

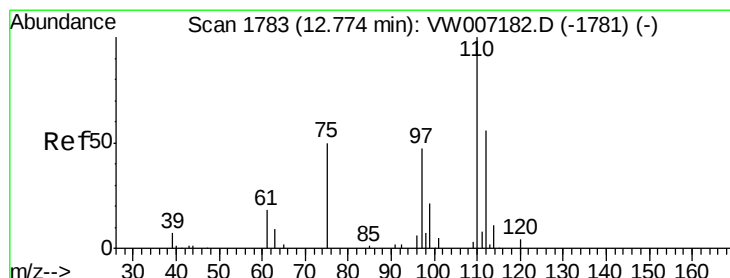
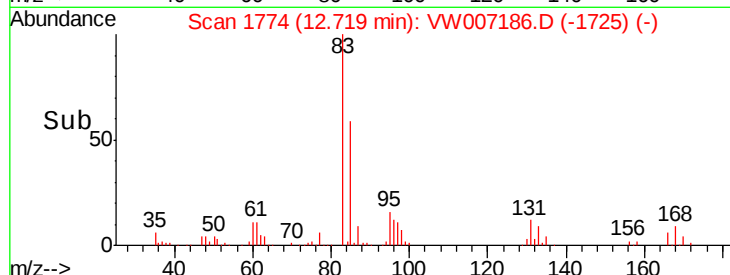
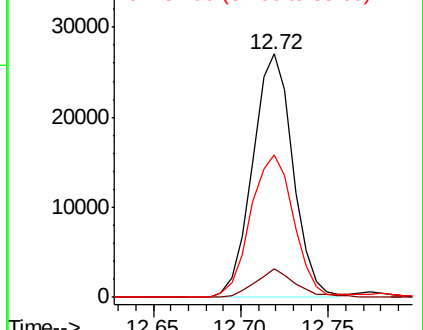
85 62.6 33.0 99.0



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 54.010 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VW007186.D

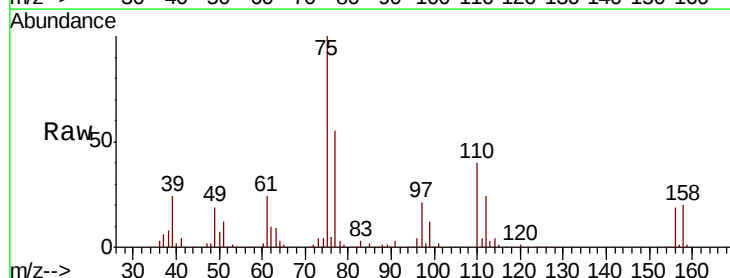
Acq: 04 Dec 2018 14:29

Tgt Ion: 75 Resp: 60847

Ion Ratio Lower Upper

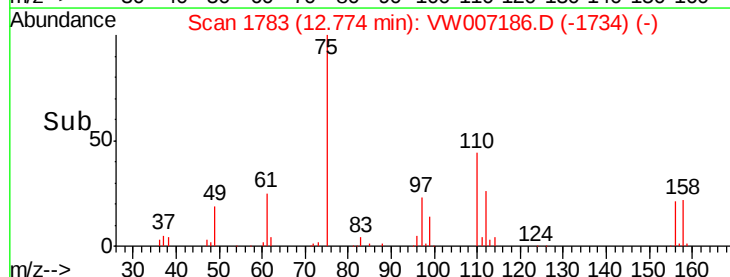
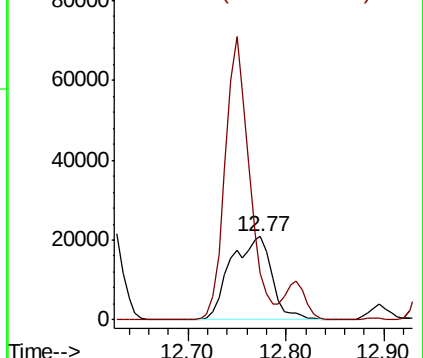
75 100

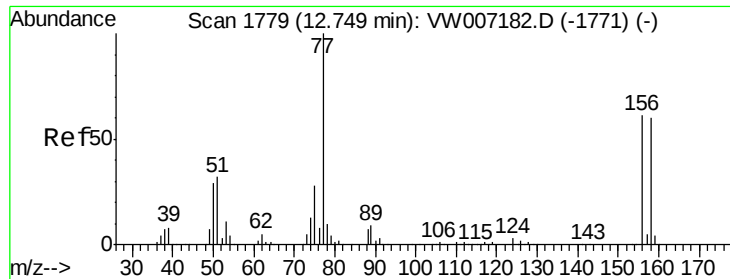
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 51.274 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

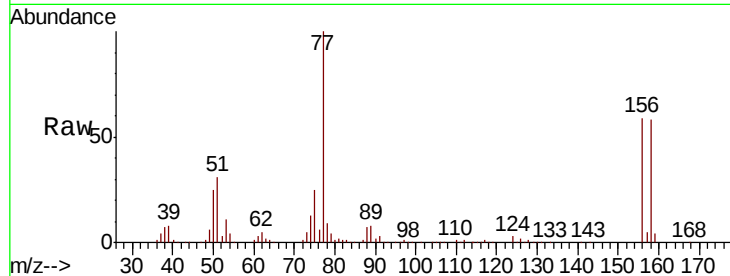
Tot Ion:156 Resp: 67483

Ion Ratio Lower Upper

156 100

77 180.4 92.0 276.1

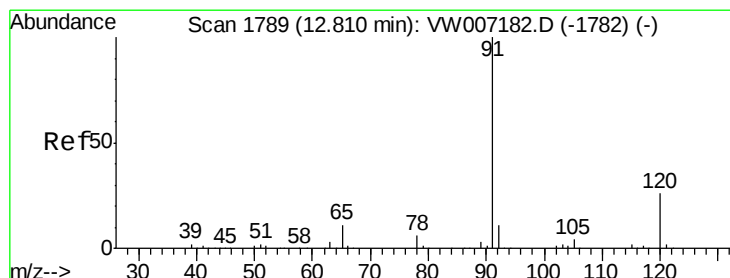
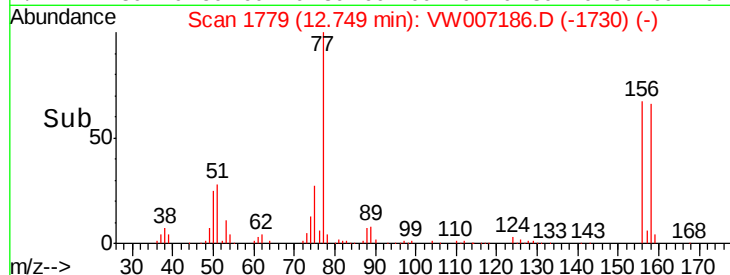
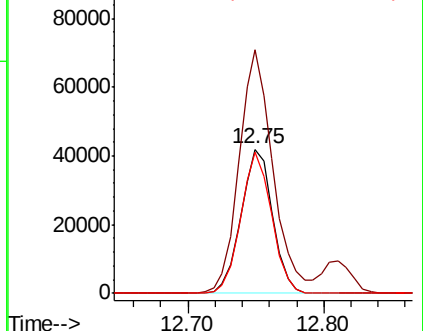
158 96.4 49.0 147.0



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 51.262 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW007186.D

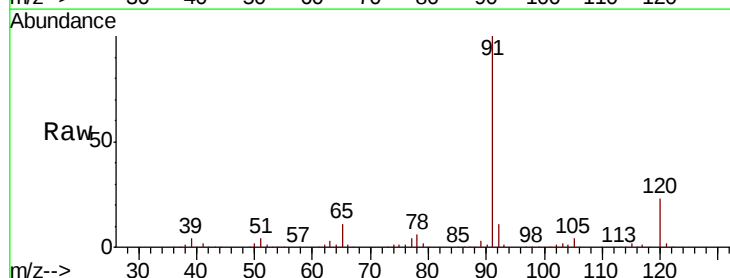
Acq: 04 Dec 2018 14:29

Tgt Ion: 91 Resp: 372374

Ion Ratio Lower Upper

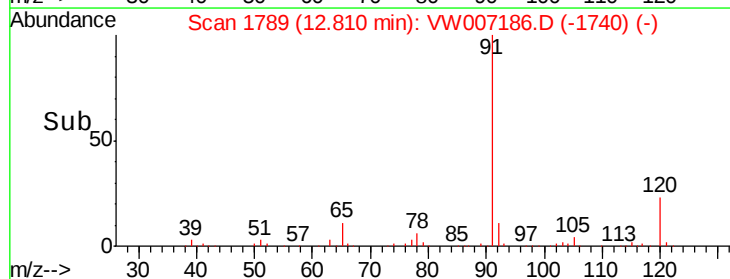
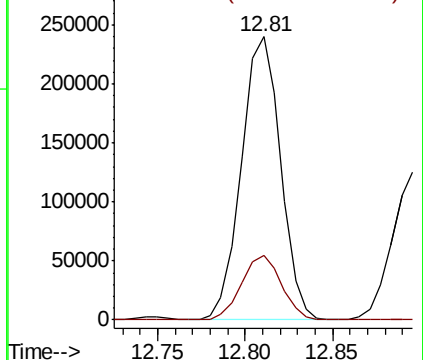
91 100

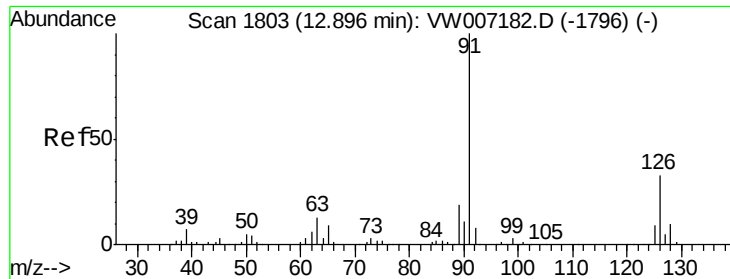
120 23.3 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

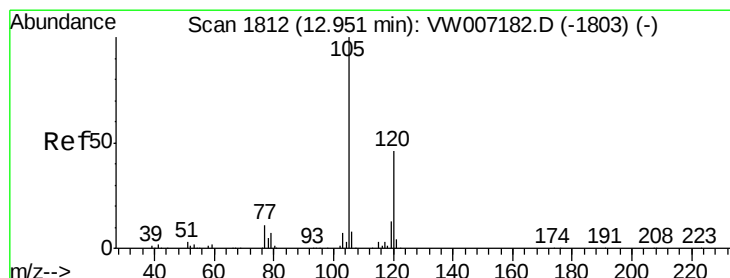
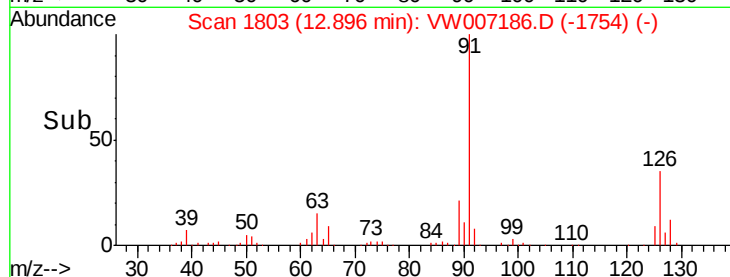
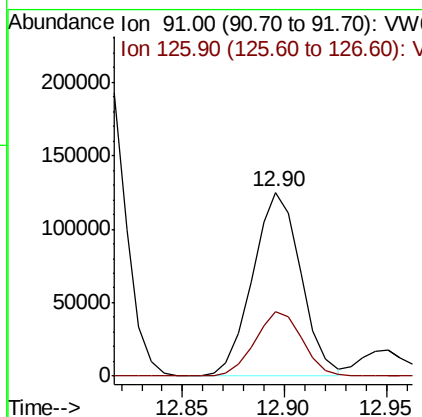
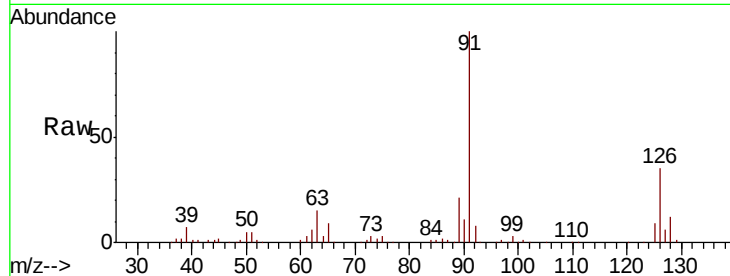




#79  
2-Chlorotoluene  
Concen: 49.925 ug/l  
RT: 12.90 min Scan# 1803  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

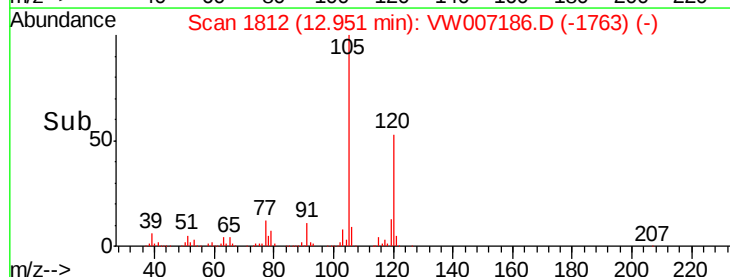
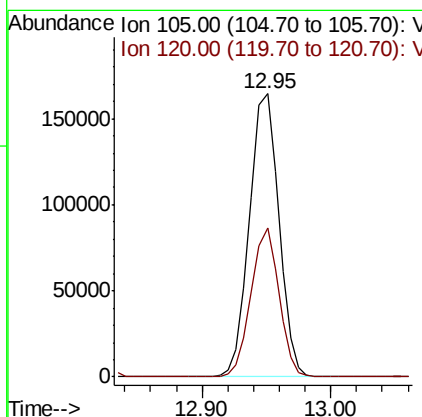
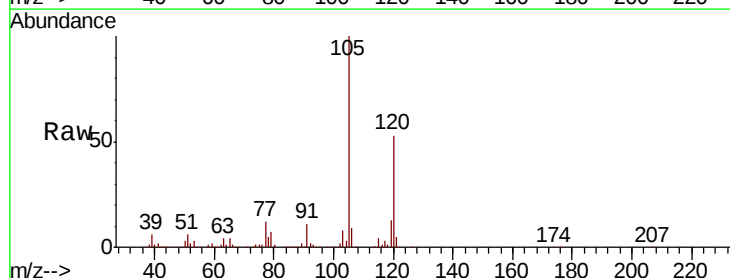
Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

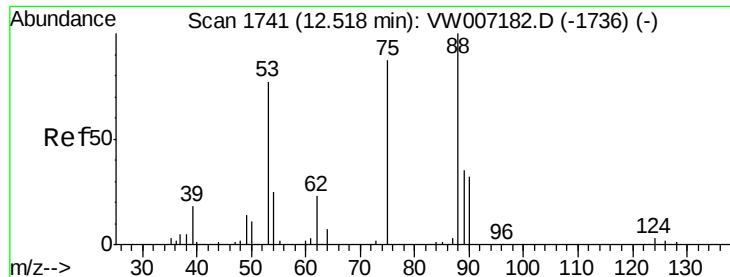
Tot Ion: 91 Resp: 204797  
Ion Ratio Lower Upper  
91 100  
126 34.5 16.7 50.1



#80  
1,3,5-Trimethylbenzene  
Concen: 49.594 ug/l  
RT: 12.95 min Scan# 1812  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion:105 Resp: 258690  
Ion Ratio Lower Upper  
105 100  
120 49.9 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 54.749 ug/l

RT: 12.52 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

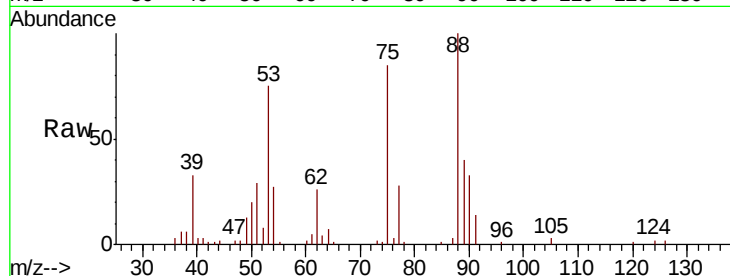
Tot Ion: 75 Resp: 14745

Ion Ratio Lower Upper

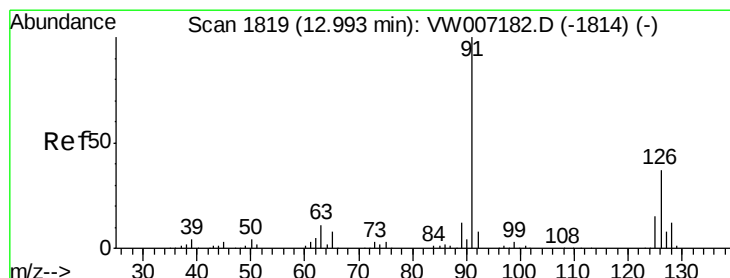
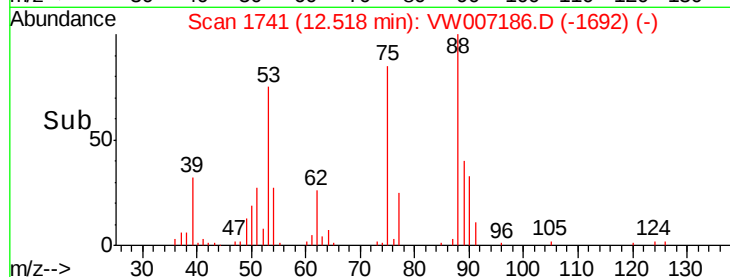
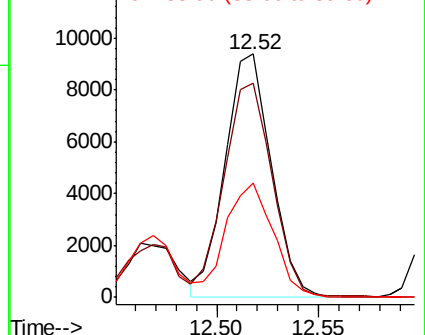
75 100

53 92.4 72.8 109.2

89 48.6 36.4 54.6



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



#82

4-Chlorotoluene

Concen: 51.456 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VW007186.D

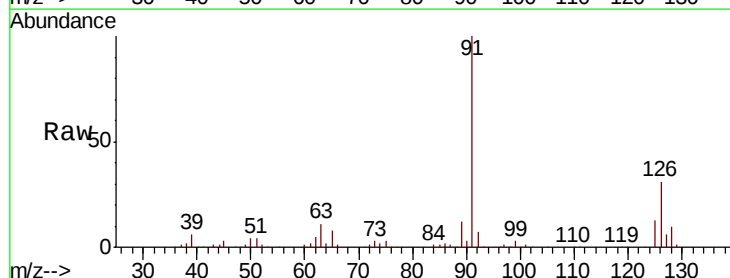
Acq: 04 Dec 2018 14:29

Tgt Ion: 91 Resp: 224552

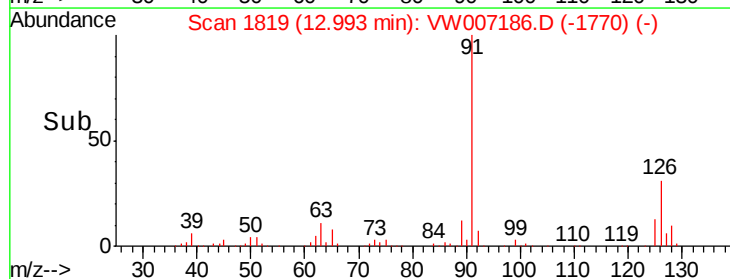
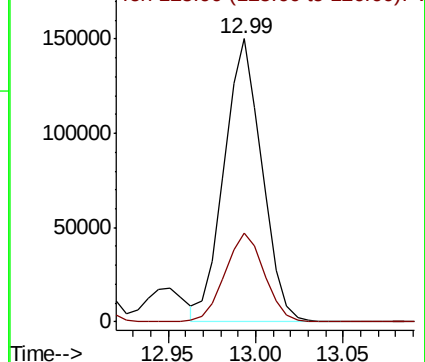
Ion Ratio Lower Upper

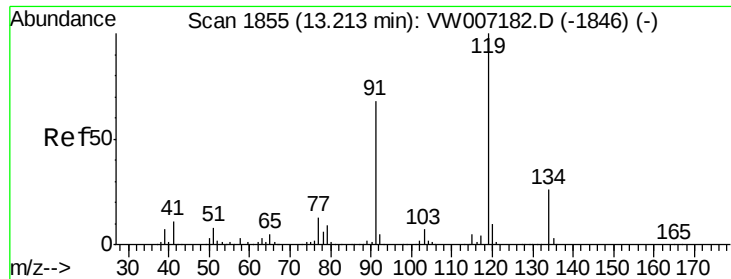
91 100

126 32.6 17.4 52.3



Abundance Ion 91.00 (90.70 to 91.70): VW  
Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 52.073 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

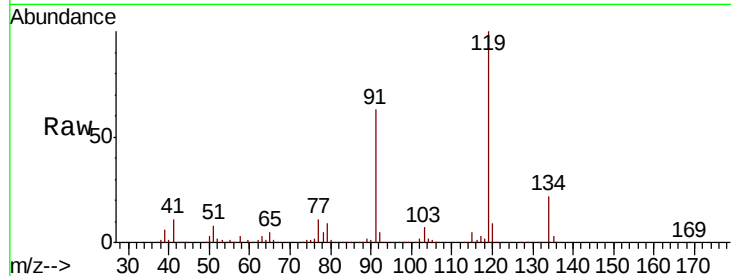
Tot Ion:119 Resp: 237365

Ion Ratio Lower Upper

119 100

91 64.2 34.0 101.8

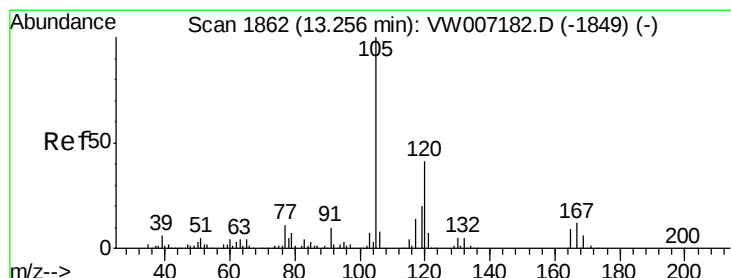
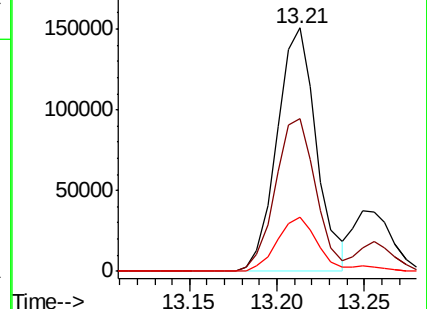
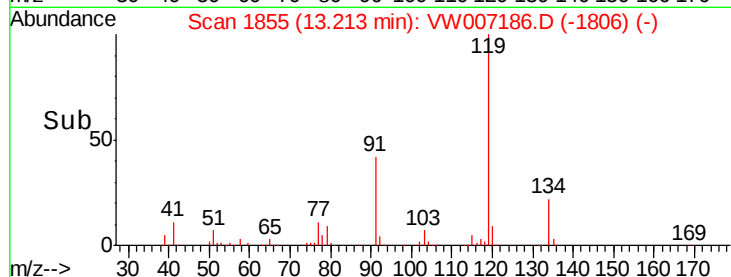
134 24.3 13.2 39.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 48.880 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW007186.D

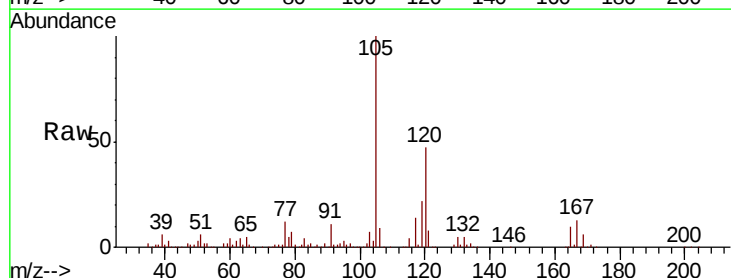
Acq: 04 Dec 2018 14:29

Tgt Ion:105 Resp: 260261

Ion Ratio Lower Upper

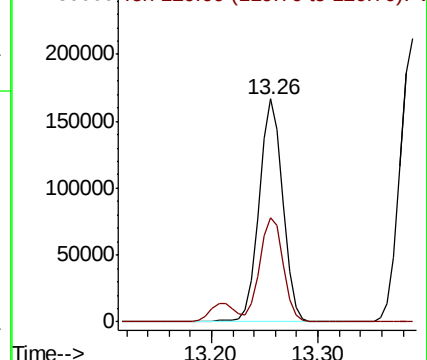
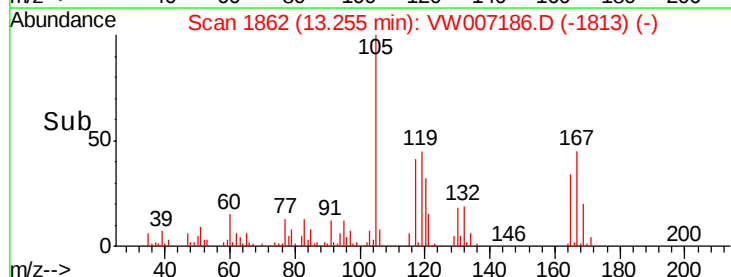
105 100

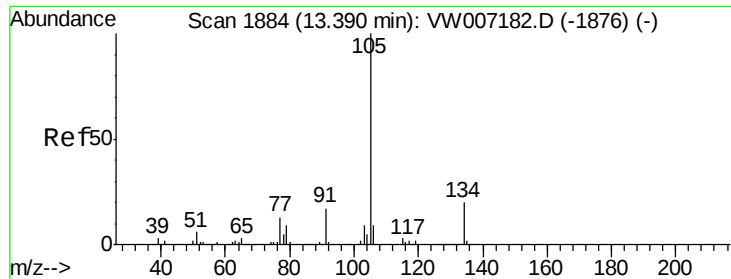
120 46.0 21.1 63.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 50.577 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

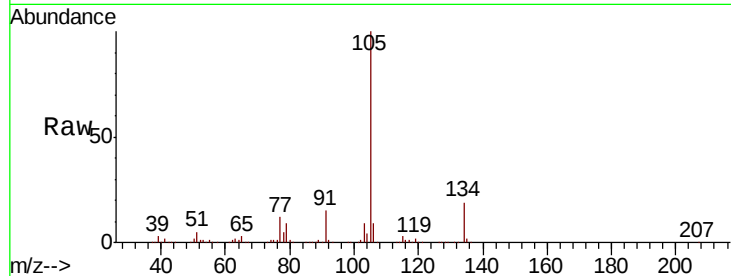
ICVW120418

Tot Ion:105 Resp: 329128

Ion Ratio Lower Upper

105 100

134 20.3 10.3 30.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.39

200000

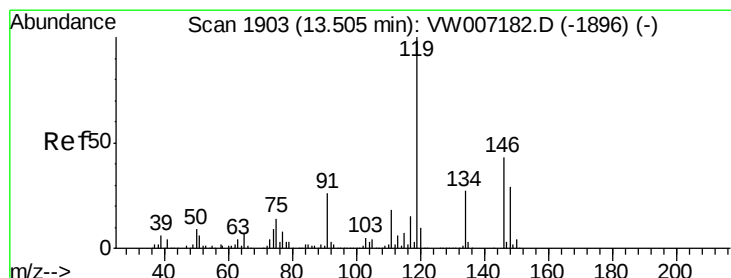
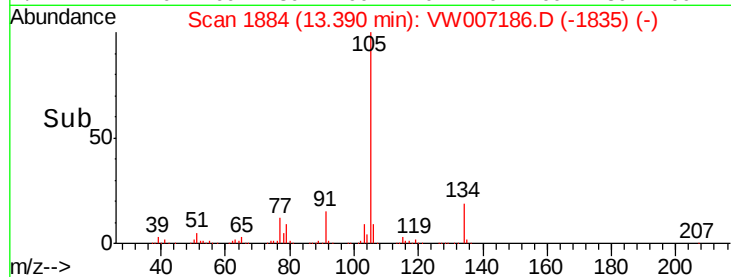
150000

100000

50000

0

Time--> 13.30 13.35 13.40 13.45



#86

p-Isopropyltoluene

Concen: 51.182 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

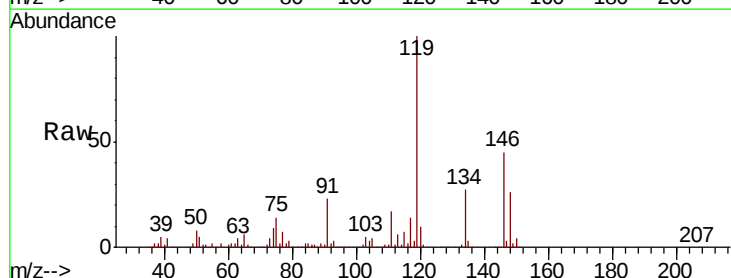
Tgt Ion:119 Resp: 296496

Ion Ratio Lower Upper

119 100

134 26.0 13.2 39.6

91 23.3 12.4 37.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.51

200000

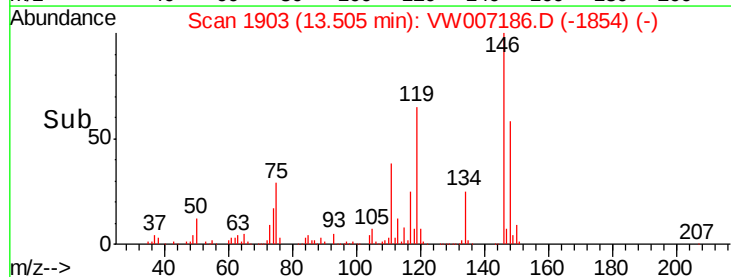
150000

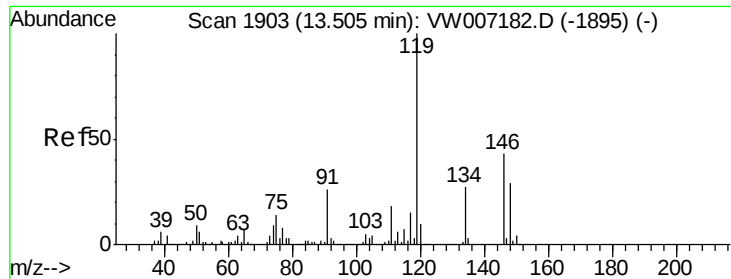
100000

50000

0

Time--> 13.40 13.50 13.60





#87

1,3-Dichlorobenzene

Concen: 51.647 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

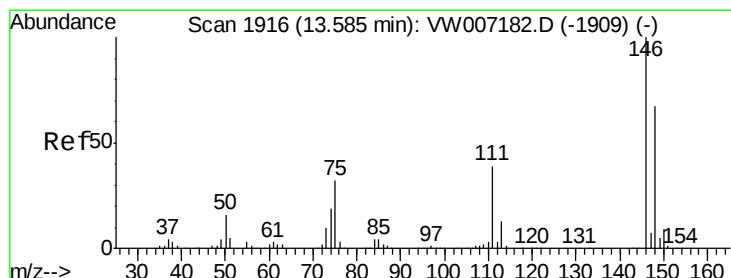
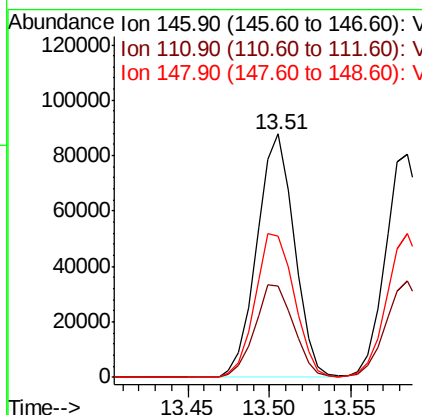
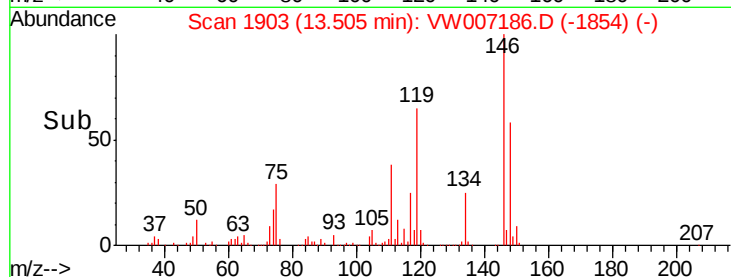
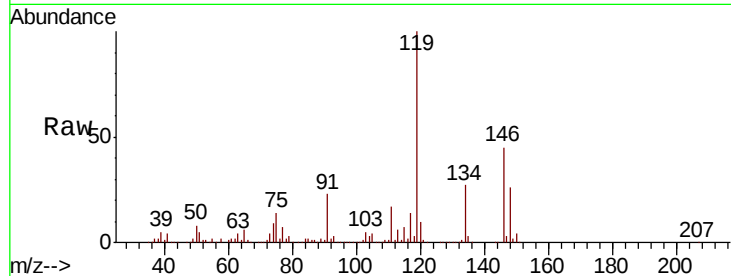
Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

Tot Ion:146 Resp: 139541

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 39.7  | 21.1  | 63.4  |
| 148 | 62.0  | 32.8  | 98.4  |



#88

1,4-Dichlorobenzene

Concen: 49.433 ug/l

RT: 13.58 min Scan# 1916

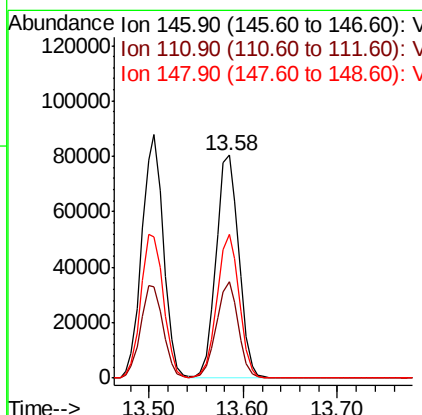
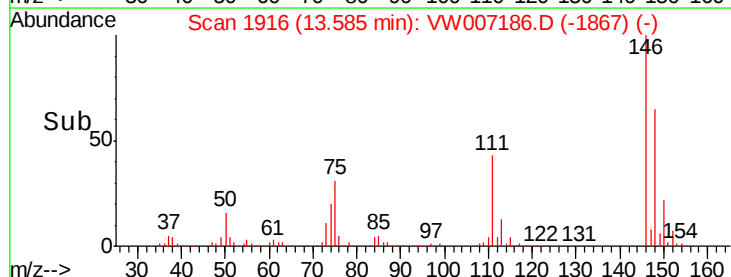
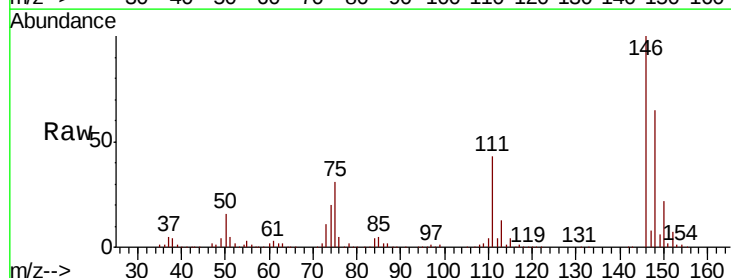
Delta R.T. -0.00 min

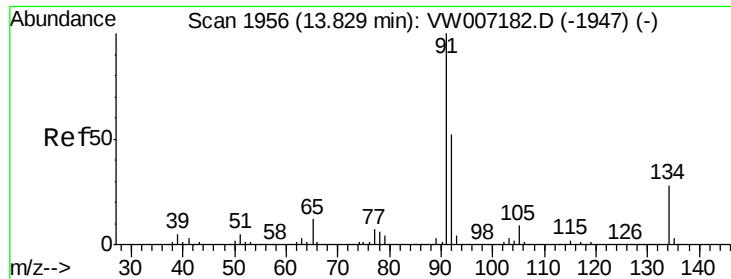
Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Tgt Ion:146 Resp: 134908

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 41.2  | 19.6  | 58.8  |
| 148 | 62.7  | 32.6  | 98.0  |





#89

n-Butylbenzene

Concen: 51.734 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

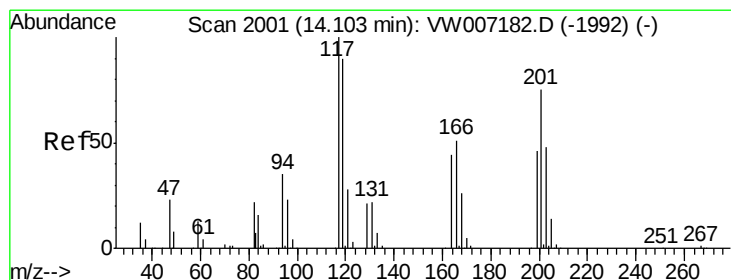
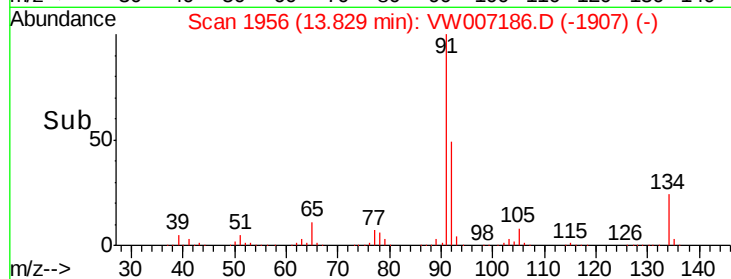
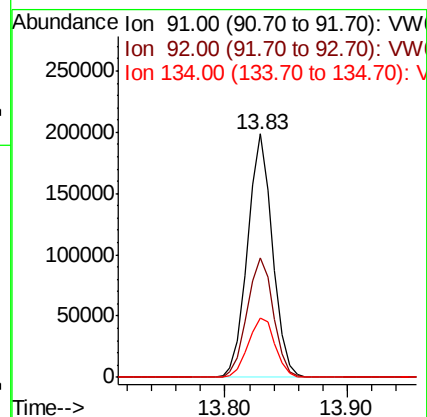
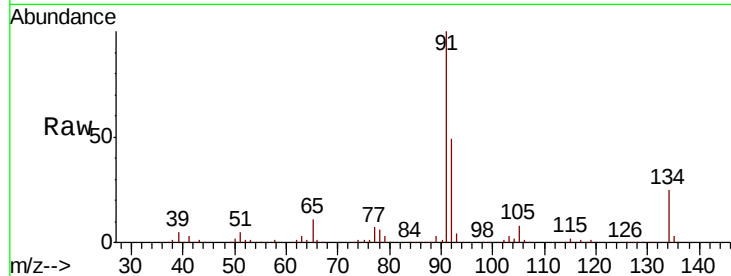
Tot Ion: 91 Resp: 280056

Ion Ratio Lower Upper

91 100

92 52.0 26.5 79.5

134 26.5 14.1 42.2



#90

Hexachloroethane

Concen: 51.425 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.01 min

Lab File: VW007186.D

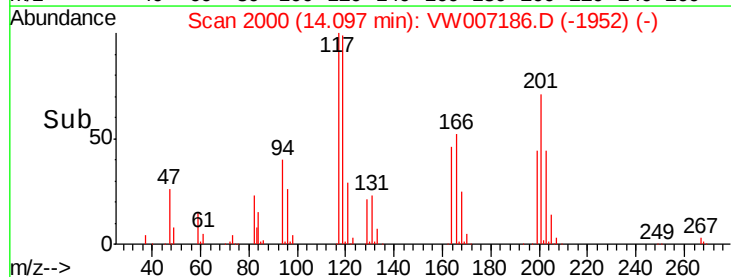
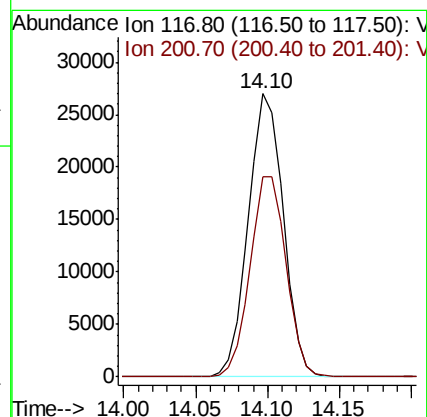
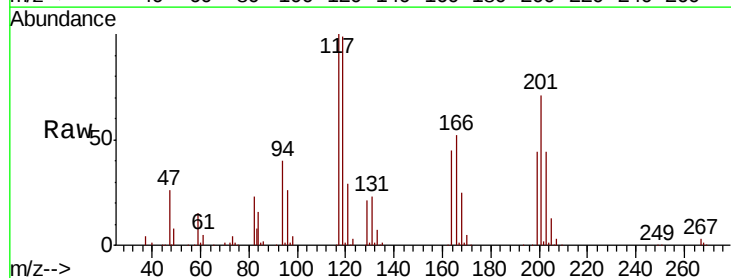
Acq: 04 Dec 2018 14:29

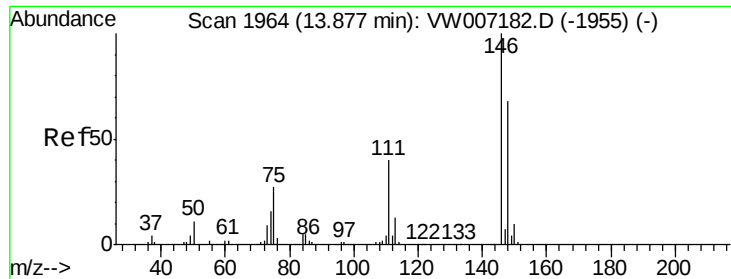
Tgt Ion: 117 Resp: 45397

Ion Ratio Lower Upper

117 100

201 72.6 36.0 108.1





#91

1,2-Dichlorobenzene

Concen: 50.927 ug/l

RT: 13.88 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

Instrument :

MSVOA\_W

ClientSampleId :

ICVW120418

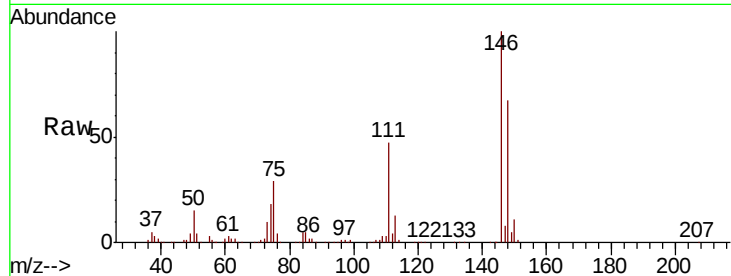
Tot Ion:146 Resp: 119118

Ion Ratio Lower Upper

146 100

111 44.2 21.6 65.0

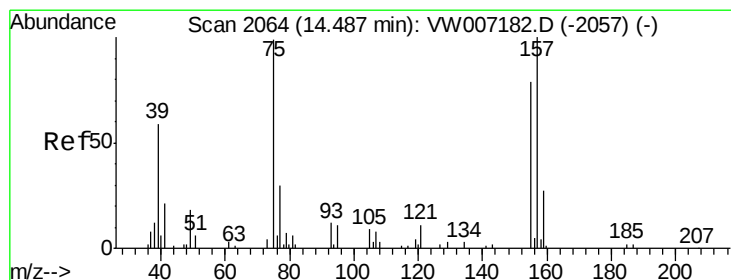
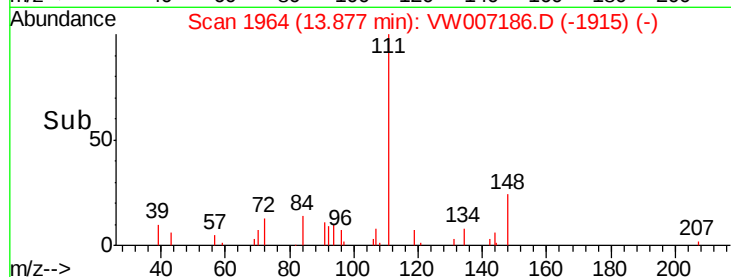
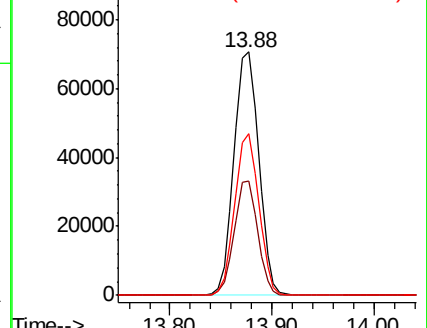
148 64.4 32.7 98.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.721 ug/l

RT: 14.49 min Scan# 2065

Delta R.T. 0.01 min

Lab File: VW007186.D

Acq: 04 Dec 2018 14:29

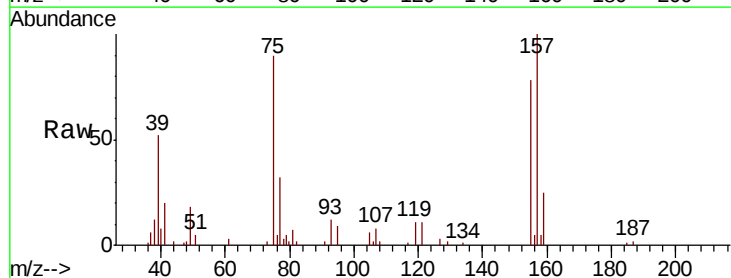
Tgt Ion: 75 Resp: 7934

Ion Ratio Lower Upper

75 100

155 89.2 42.4 127.2

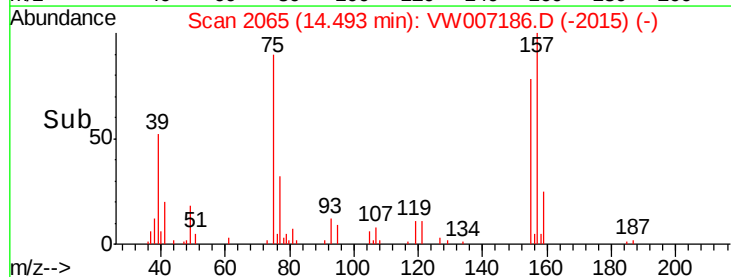
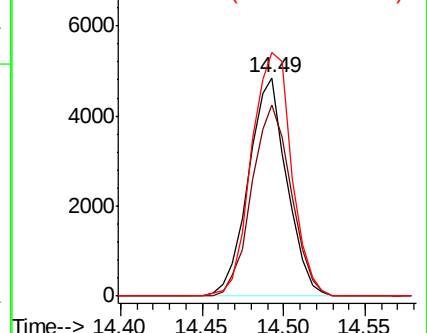
157 116.1 55.3 165.9

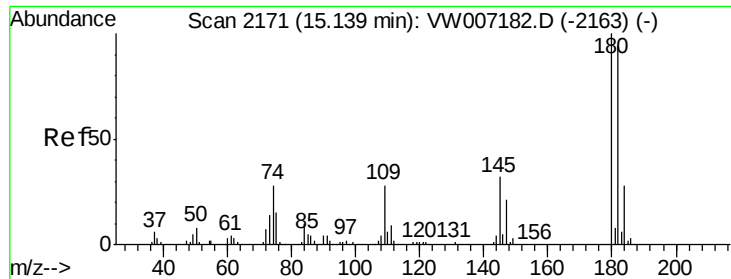


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

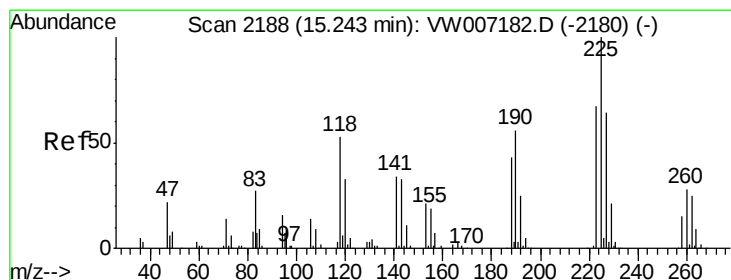
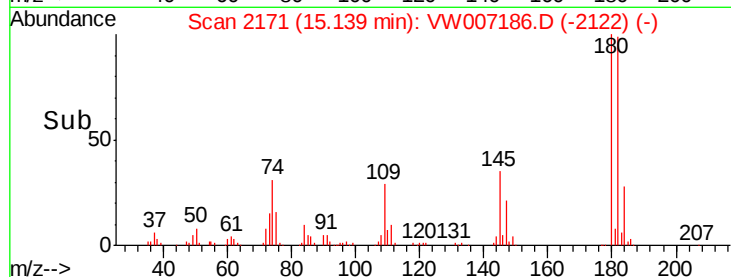
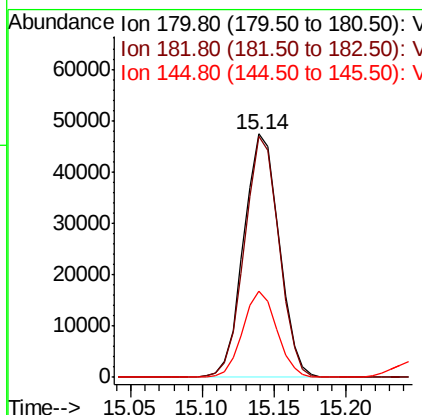
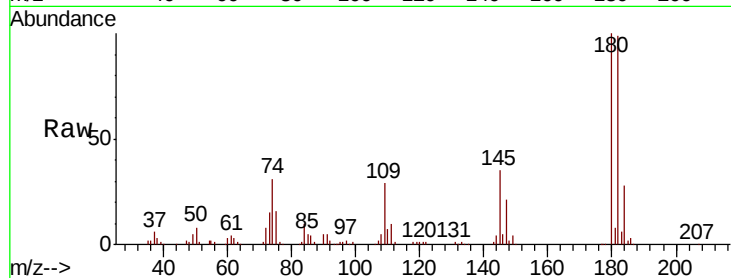




#93  
 1,2,4-Trichlorobenzene  
 Concen: 49.809 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

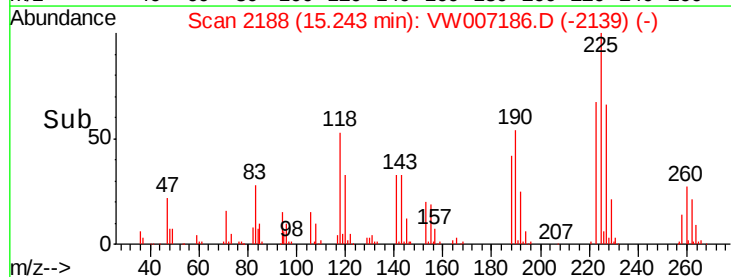
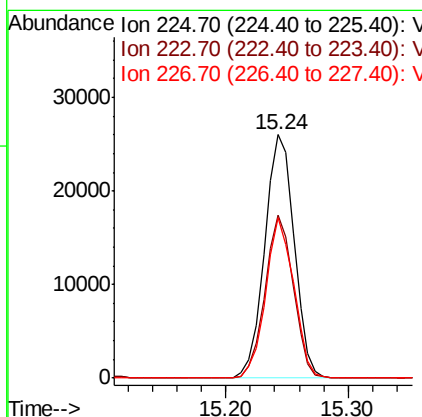
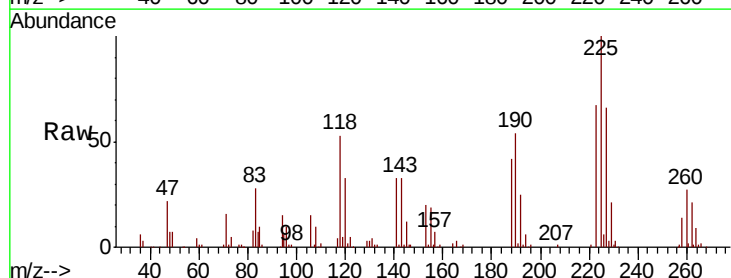
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW120418

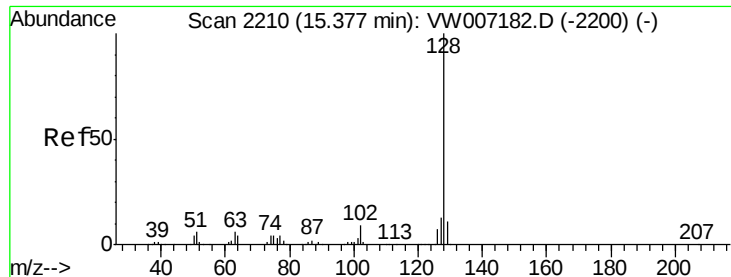
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.3  | 47.9  | 143.8 |
| 145     | 34.0  | 16.6  | 49.7  |



#94  
 Hexachlorobutadiene  
 Concen: 49.949 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. -0.00 min  
 Lab File: VW007186.D  
 Acq: 04 Dec 2018 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.3  | 32.3  | 96.8  |
| 227     | 62.9  | 32.1  | 96.3  |

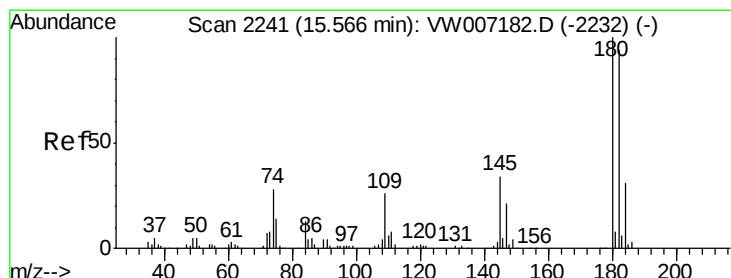
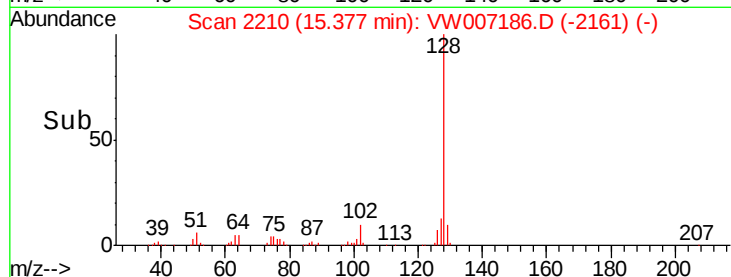
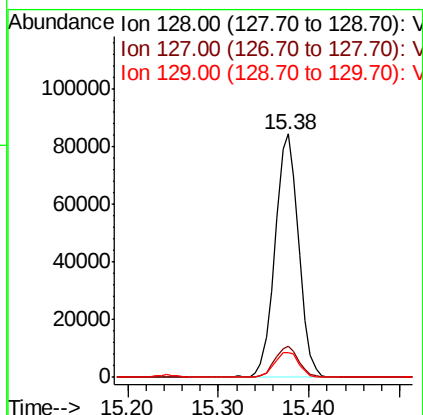
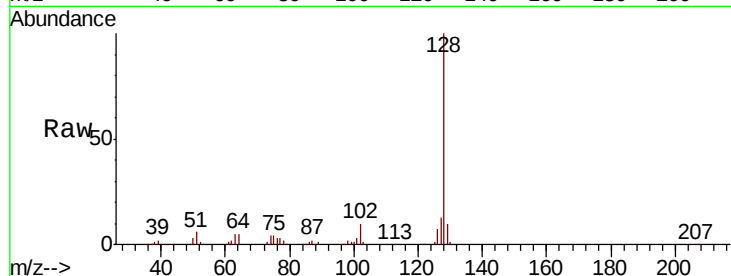




#95  
Naphthalene  
Concen: 52.167 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
ICVW120418

Tot Ion:128 Resp: 151548  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.3 15.5  
129 10.7 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 49.320 ug/l  
RT: 15.57 min Scan# 2241  
Delta R.T. -0.00 min  
Lab File: VW007186.D  
Acq: 04 Dec 2018 14:29

Tgt Ion:180 Resp: 67411  
Ion Ratio Lower Upper  
180 100  
182 95.8 47.4 142.2  
145 34.9 17.6 52.8

