

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082819\  
 Data File : VW012243.D  
 Acq On : 28 Aug 2019 10:13  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

Quant Time: Aug 28 17:23:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 270355   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 429277   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 366721   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 174627   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 152385   | 47.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.82%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 127151   | 49.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.24%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 523835   | 50.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.84% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 184990   | 50.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.02% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 87056    | 52.296  | ug/l  | 99     |
| 3) Chloromethane              | 2.21 | 50   | 132900   | 51.530  | ug/l  | 97     |
| 4) Vinyl Chloride             | 2.36 | 62   | 169993   | 53.852  | ug/l  | 98     |
| 5) Bromomethane               | 2.78 | 94   | 90148    | 56.389  | ug/l  | 98     |
| 6) Chloroethane               | 2.92 | 64   | 97579    | 54.797  | ug/l  | 95     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 92223    | 58.183  | ug/l  | 99     |
| 8) Diethyl Ether              | 3.68 | 74   | 77601    | 51.579  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 141198   | 52.407  | ug/l  | 98     |
| 10) Methyl Iodide             | 4.27 | 142  | 200384   | 54.969  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 5.15 | 59   | 47131    | 243.686 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 145520   | 53.662  | ug/l  | 97     |
| 13) Acrolein                  | 3.89 | 56   | 38267    | 210.190 | ug/l  | 96     |
| 14) Allyl chloride            | 4.67 | 41   | 320285   | 55.246  | ug/l  | 99     |
| 15) Acrylonitrile             | 5.36 | 53   | 184507   | 247.417 | ug/l  | 100    |
| 16) Acetone                   | 4.11 | 43   | 197265   | 240.119 | ug/l  | 97     |
| 17) Carbon Disulfide          | 4.38 | 76   | 438776   | 53.538  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.67 | 43   | 95398    | 46.884  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 231680   | 52.830  | ug/l  | 98     |
| 20) Methylene Chloride        | 4.91 | 84   | 154476   | 49.739  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 153766   | 52.877  | ug/l  | 97     |
| 22) Diisopropyl ether         | 6.31 | 45   | 569646   | 53.010  | ug/l  | 96     |
| 23) Vinyl Acetate             | 6.25 | 43   | 1733028  | 262.053 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 307572   | 52.567  | ug/l  | 99     |
| 25) 2-Butanone                | 7.16 | 43   | 272344   | 243.956 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 182287   | 55.043  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96   | 165847   | 53.380  | ug/l  | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 124907   | 48.980  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 7.52 | 42   | 165899   | 247.695 | ug/l  | 99     |
| 30) Chloroform                | 7.67 | 83   | 276636   | 51.678  | ug/l  | 99     |
| 31) Cyclohexane               | 7.95 | 56   | 290877   | 50.248  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 224192   | 52.942  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 236510   | 53.315  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.24 | 43   | 116992   | 48.127  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 204243   | 53.195  | ug/l  | 99     |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

Quant Time: Aug 28 17:23:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 269418   | 54.061  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 641359   | 52.948  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 67674    | 47.367  | ug/l   | 92       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 192984   | 50.834  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 228075   | 50.652  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 156830   | 53.260  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 172023   | 52.768  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 74373    | 51.275  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.64  | 83   | 202598   | 52.482  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 109556   | 51.120  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 19786    | 891.064 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 569974   | 248.868 | ug/l   | 99       |
| 52) Toluene                    | 10.38 | 92   | 392545   | 53.944  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 214972   | 54.670  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 258053   | 54.351  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 105142   | 51.234  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.64 | 69   | 161167   | 53.959  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 200463   | 51.690  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 387007   | 252.467 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.96 | 43   | 407218   | 251.290 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 118977   | 52.050  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 100842   | 52.744  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 127359   | 53.567  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.65 | 112  | 389652   | 53.961  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 135005   | 53.592  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 765925   | 55.062  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.83 | 106  | 551556   | 110.078 | ug/l   | 98       |
| 69) o-Xylene                   | 12.16 | 106  | 258238   | 55.685  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 444328   | 55.354  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 66724    | 53.162  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 723488   | 55.291  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 213048   | 53.890  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 121982   | 50.850  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 165287   | 97.185  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 153844   | 54.346  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 881932   | 55.210  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 492407   | 54.294  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 607938   | 55.601  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 42204    | 54.408  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 517767   | 54.524  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 522551   | 56.420  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 603654   | 54.961  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 739322   | 55.717  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 671138   | 56.635  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 300075   | 54.195  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 296004   | 53.840  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.82 | 91   | 676411   | 57.399  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.09 | 117  | 116162   | 55.872  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 263810   | 54.311  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 20625    | 51.000  | ug/l   | 98       |

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Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

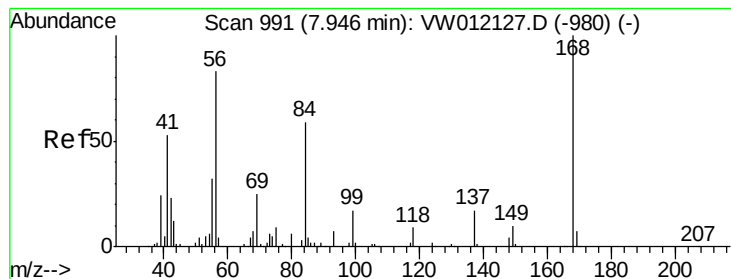
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

Quant Time: Aug 28 17:23:45 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 194992   | 58.090 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 126163   | 56.921 | ug/l  | 99       |
| 95) Naphthalene            | 15.36 | 128  | 350461   | 52.929 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 170169   | 58.105 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

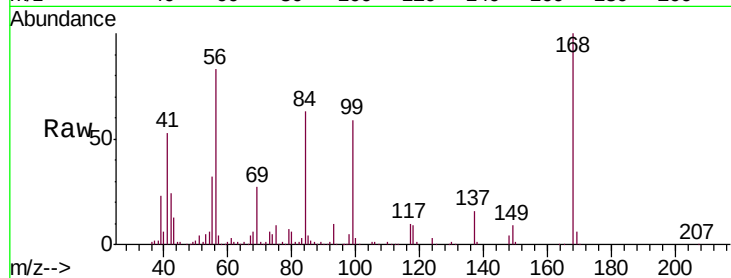
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Tot Ion:168 Resp: 270355

Ion Ratio Lower Upper

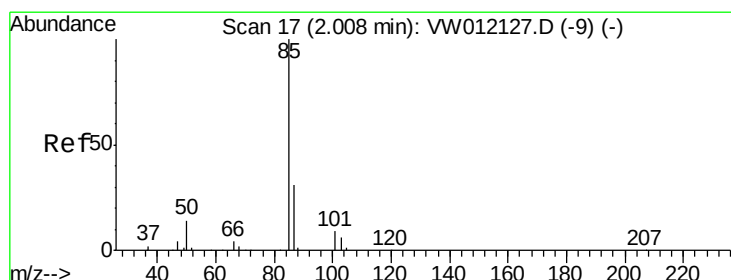
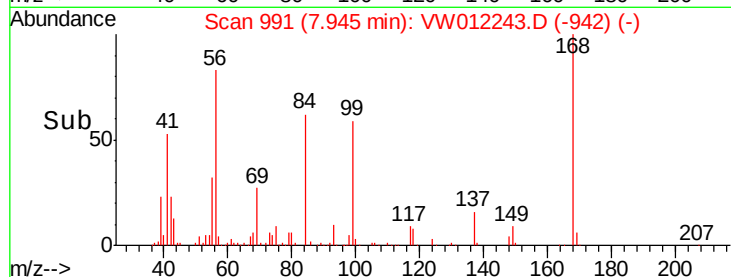
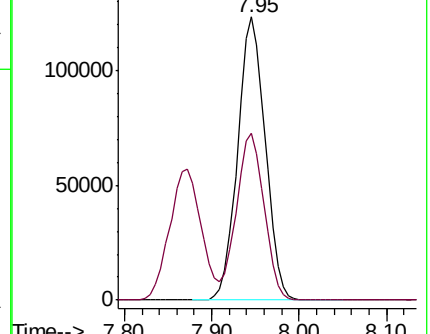
168 100

99 58.7 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 52.296 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW012243.D

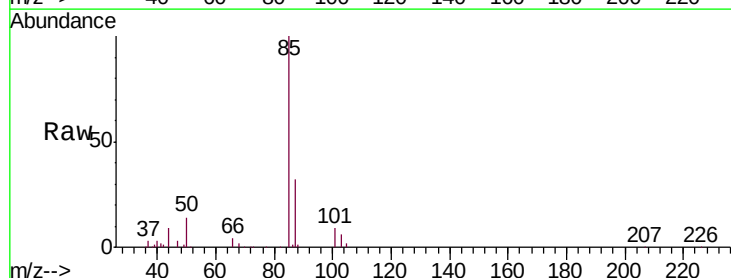
Acq: 28 Aug 2019 10:13

Tgt Ion: 85 Resp: 87056

Ion Ratio Lower Upper

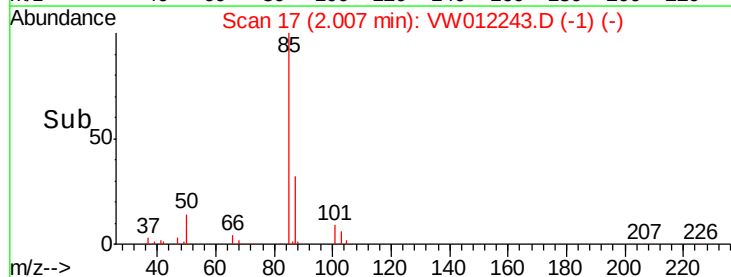
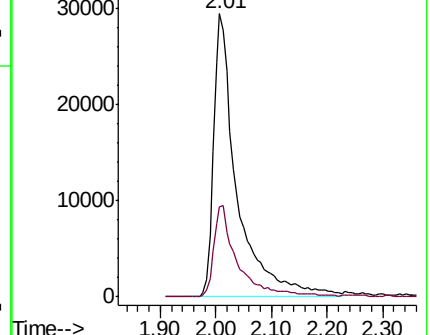
85 100

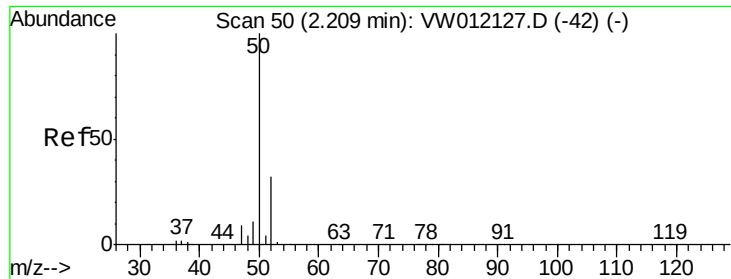
87 31.8 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 51.530 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

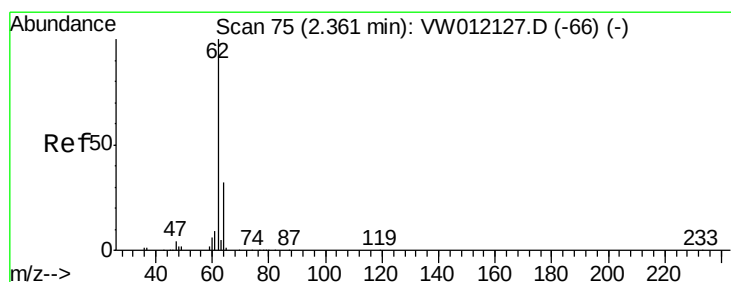
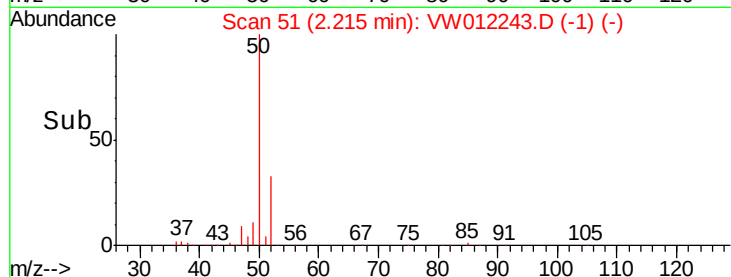
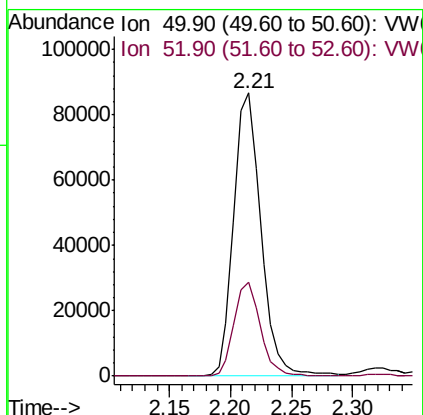
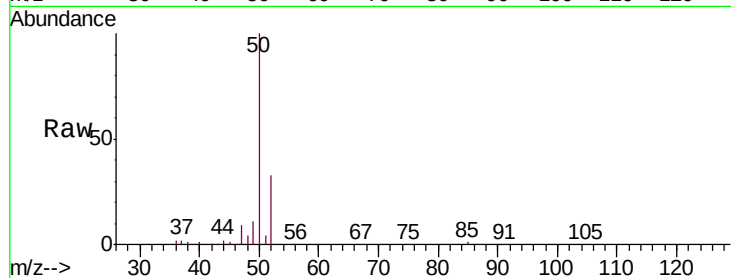
BFB

Tot Ion: 50 Resp: 132900

Ion Ratio Lower Upper

50 100

52 33.4 25.5 38.3



#4

Vinyl Chloride

Concen: 53.852 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012243.D

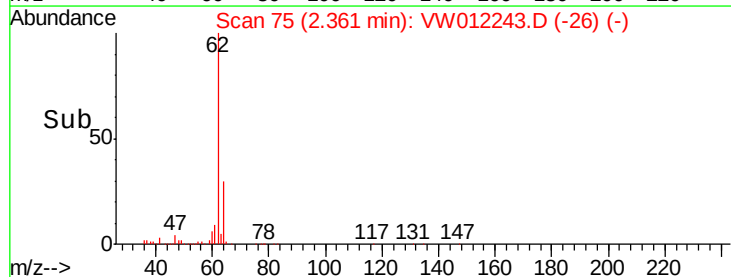
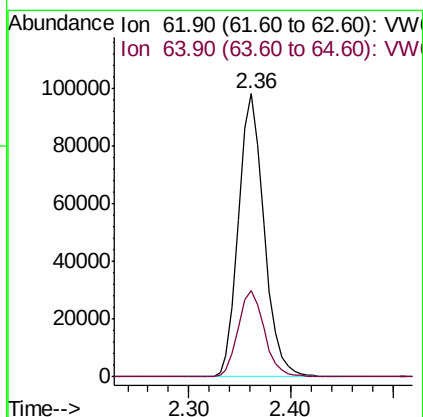
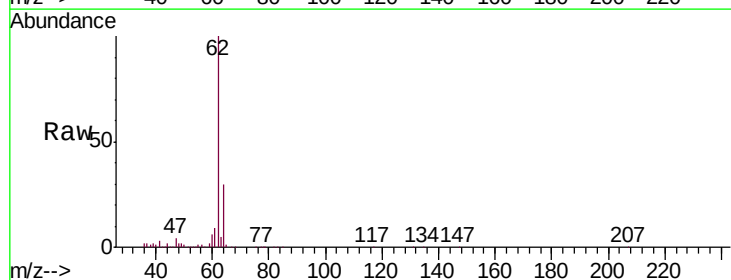
Acq: 28 Aug 2019 10:13

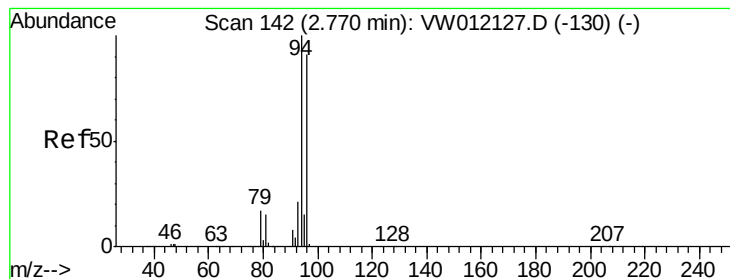
Tgt Ion: 62 Resp: 169993

Ion Ratio Lower Upper

62 100

64 30.3 25.3 37.9





#5

Bromomethane

Concen: 56.389 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

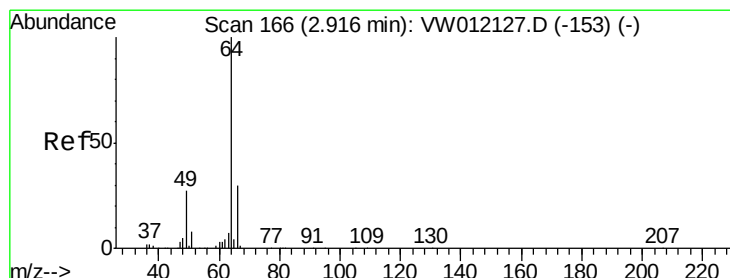
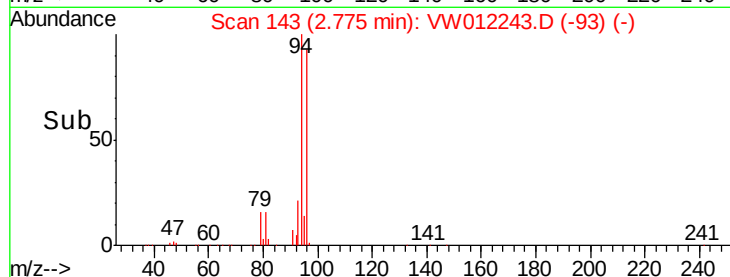
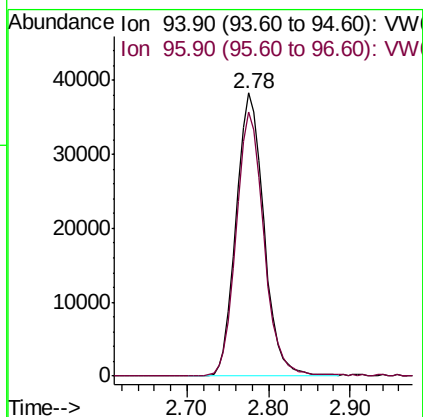
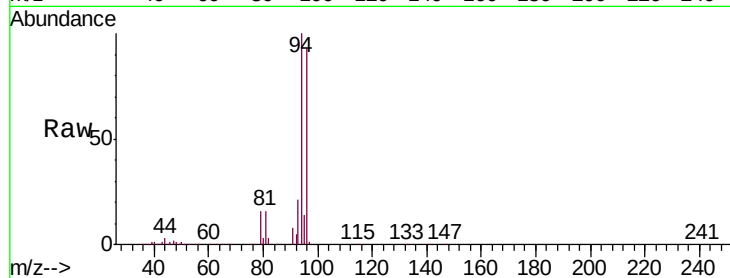
BFB

Tot Ion: 94 Resp: 90148

Ion Ratio Lower Upper

94 100

96 93.2 72.9 109.3



#6

Chloroethane

Concen: 54.797 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW012243.D

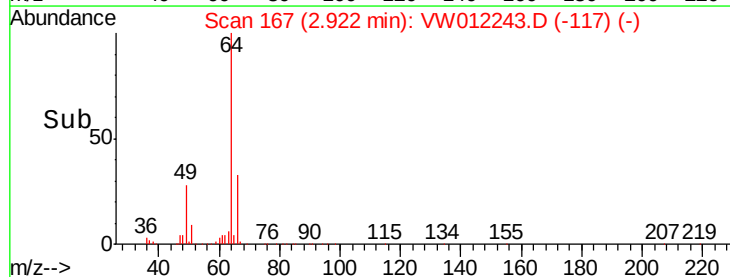
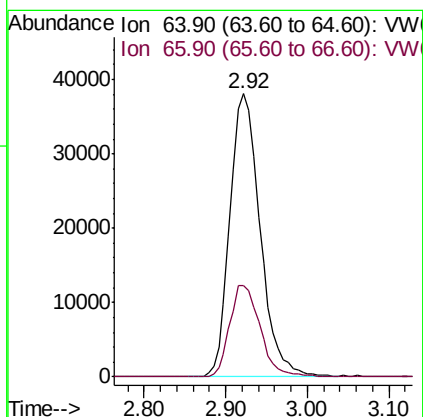
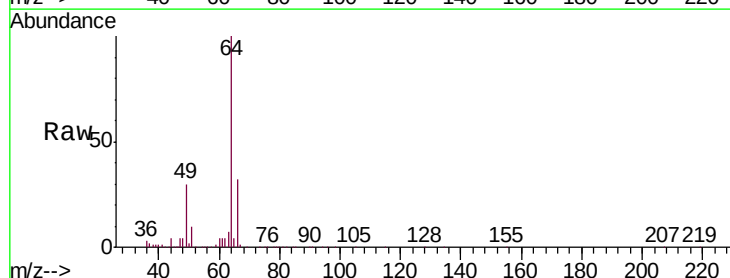
Acq: 28 Aug 2019 10:13

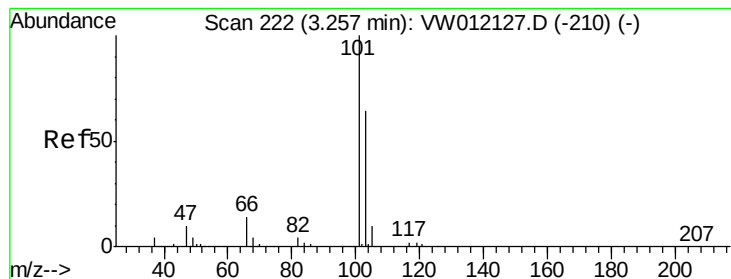
Tgt Ion: 64 Resp: 97579

Ion Ratio Lower Upper

64 100

66 32.5 23.8 35.8



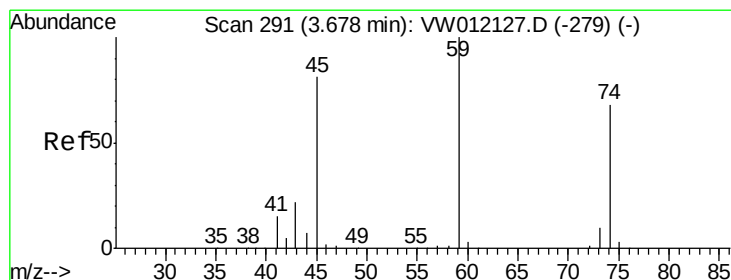
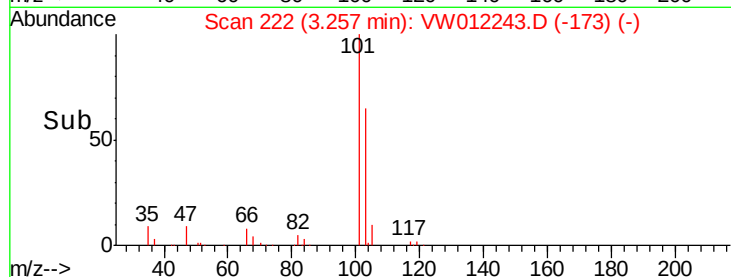
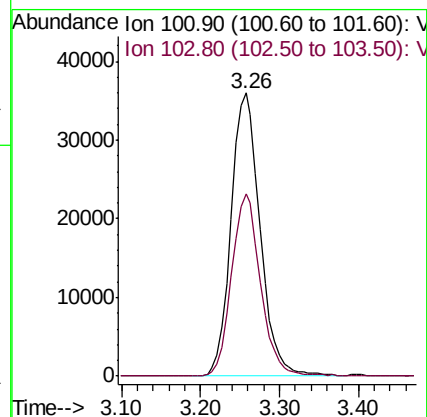
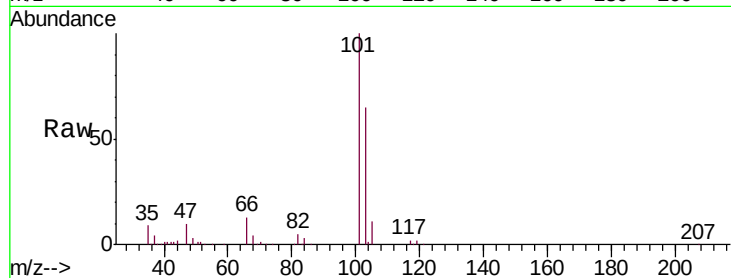


#7

Trichlorofluoromethane  
 Concen: 58.183 ug/l  
 RT: 3.26 min Scan# 222  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Instrument :  
 MSVOA\_W  
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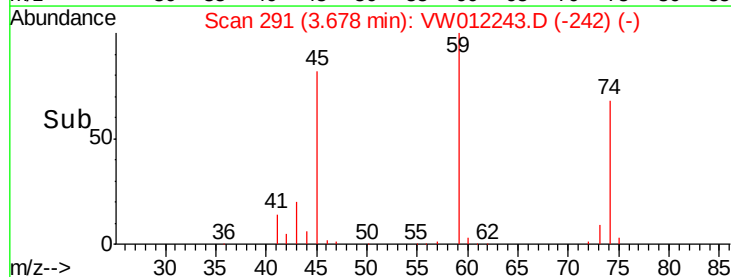
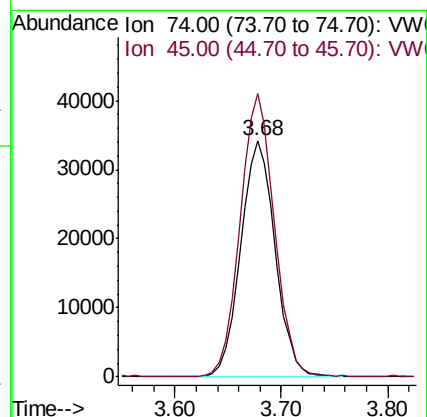
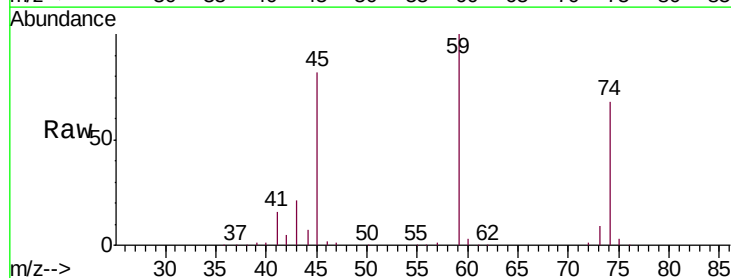
Tot Ion:101 Resp: 92223  
 Ion Ratio Lower Upper  
 101 100  
 103 64.6 51.2 76.8



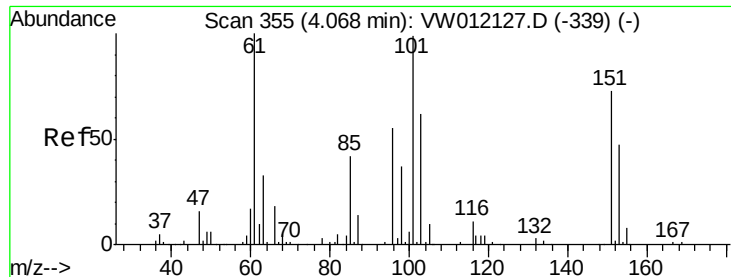
#8

Diethyl Ether  
 Concen: 51.579 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Tgt Ion: 74 Resp: 77601  
 Ion Ratio Lower Upper  
 74 100  
 45 119.5 59.2 177.6







#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.407 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampled :

BFB

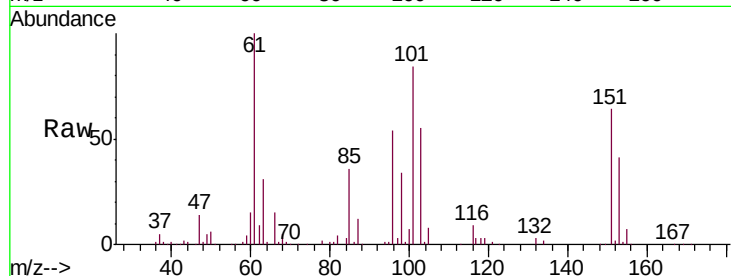
Tot Ion:101 Resp: 141198

Ion Ratio Lower Upper

101 100

85 45.8 35.8 53.6

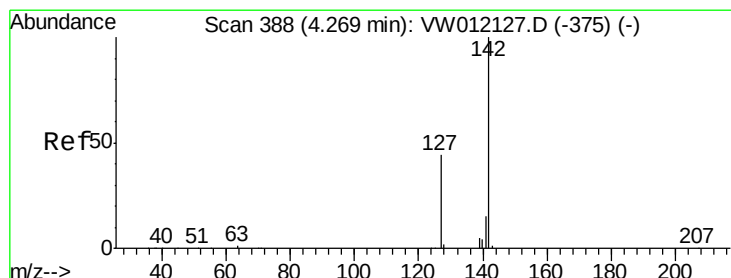
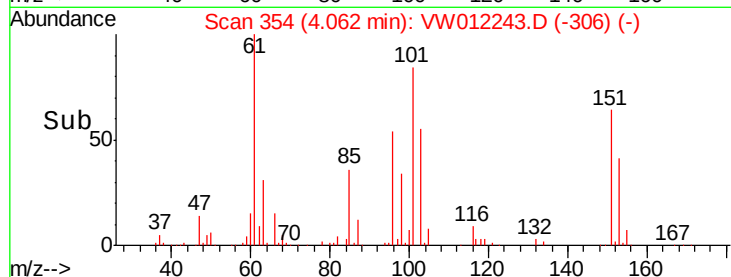
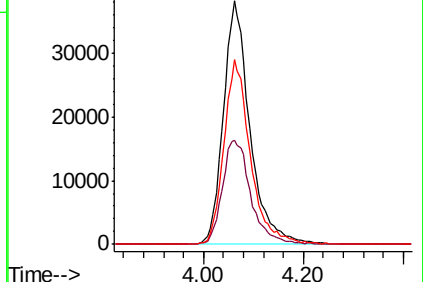
151 75.4 58.6 87.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 54.969 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

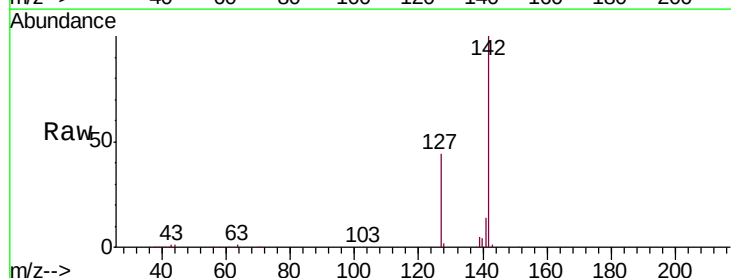
Tgt Ion:142 Resp: 200384

Ion Ratio Lower Upper

142 100

127 43.8 35.5 53.3

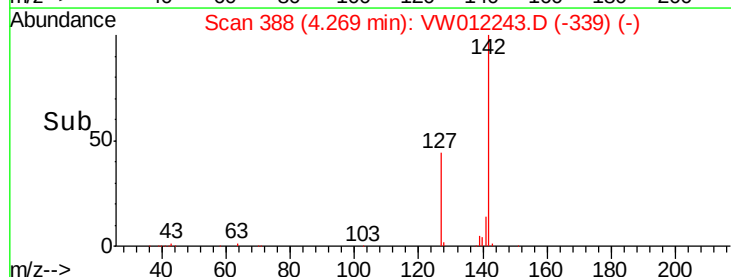
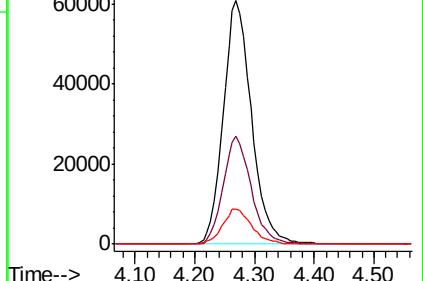
141 14.8 11.8 17.8

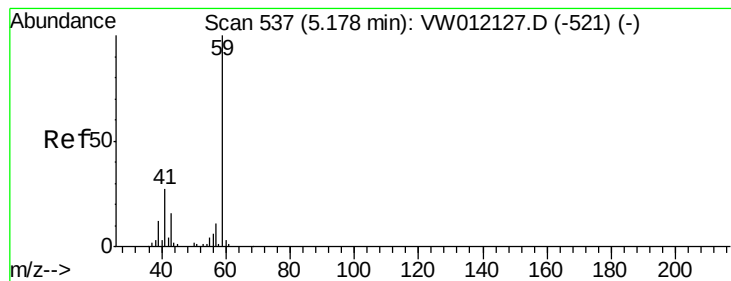


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



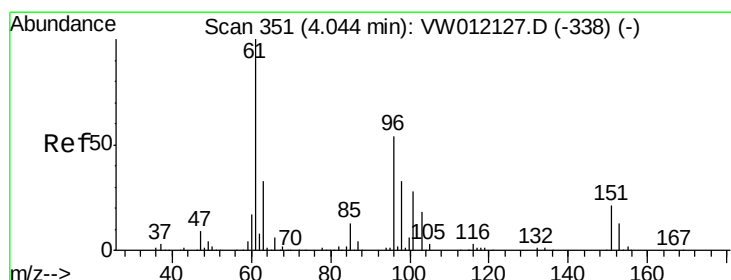
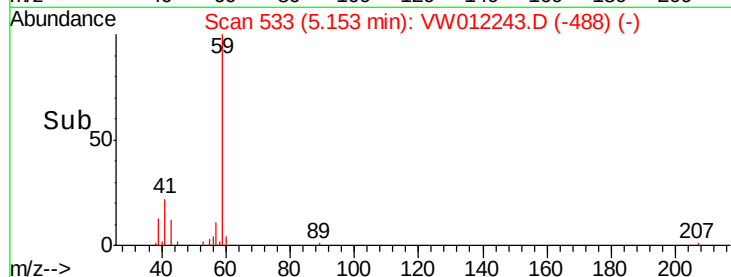
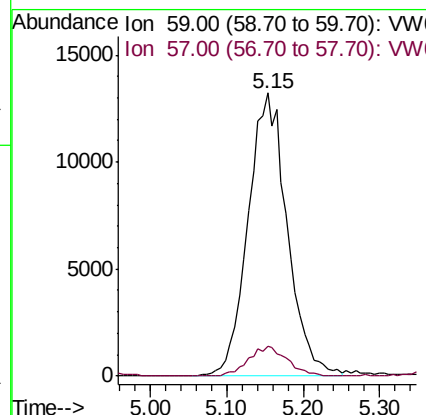
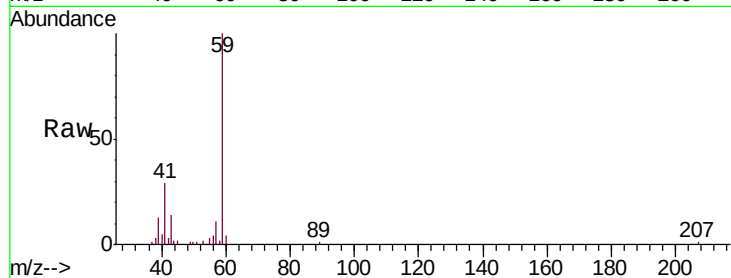


#11

Tert butyl alcohol  
 Concen: 243.686 ug/l  
 RT: 5.15 min Scan# 533  
 Delta R.T. -0.02 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

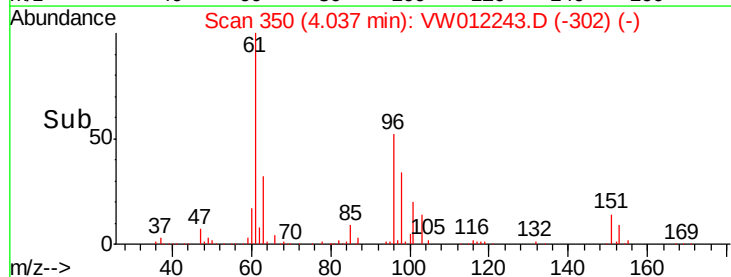
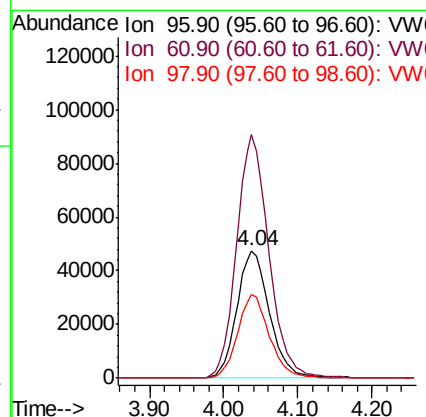
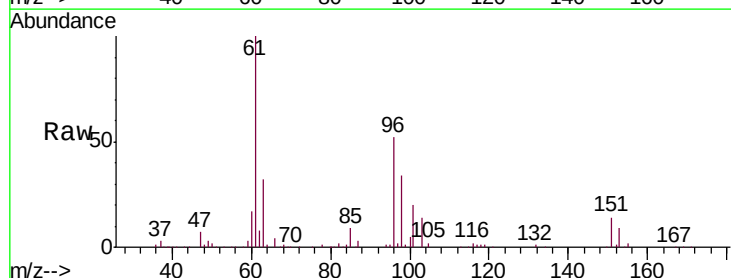
Tot Ion: 59 Resp: 47131  
 Ion Ratio Lower Upper  
 59 100  
 57 10.3 9.0 13.4

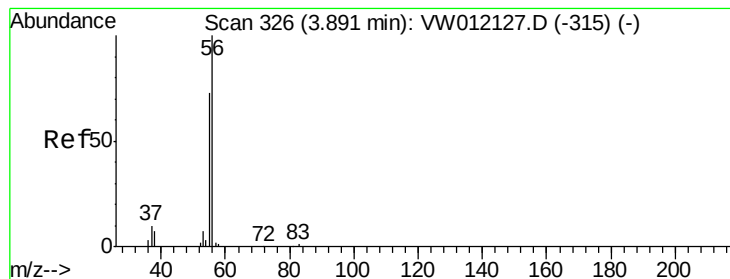


#12

1,1-Dichloroethene  
 Concen: 53.662 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. -0.01 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Tgt Ion: 96 Resp: 145520  
 Ion Ratio Lower Upper  
 96 100  
 61 190.6 149.1 223.7  
 98 65.0 49.4 74.2





#13

Acrolein

Concen: 210.190 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

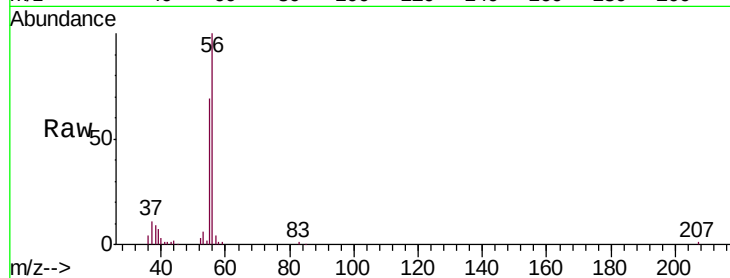
BFB

Tot Ion: 56 Resp: 38267

Ion Ratio Lower Upper

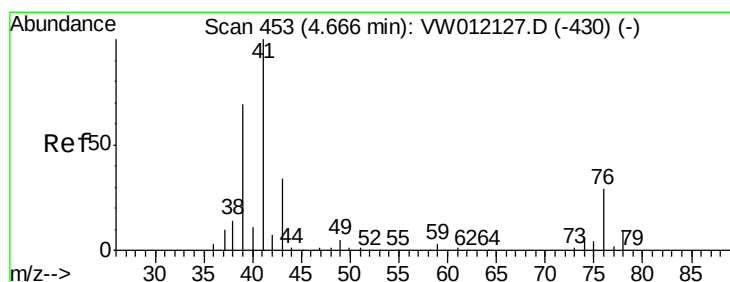
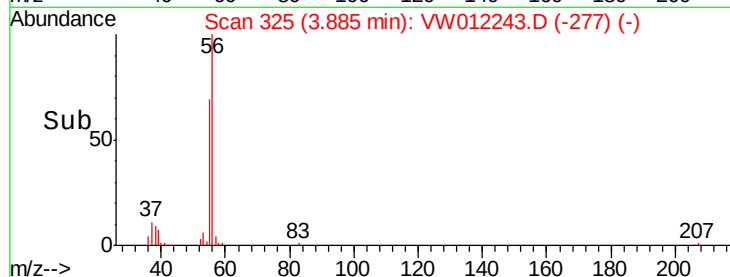
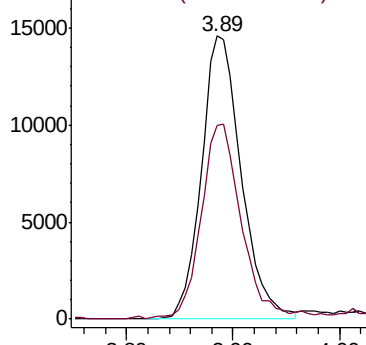
56 100

55 66.7 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 55.246 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

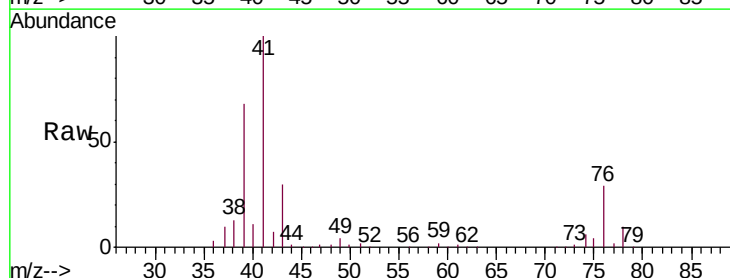
Tgt Ion: 41 Resp: 320285

Ion Ratio Lower Upper

41 100

39 65.6 53.4 80.2

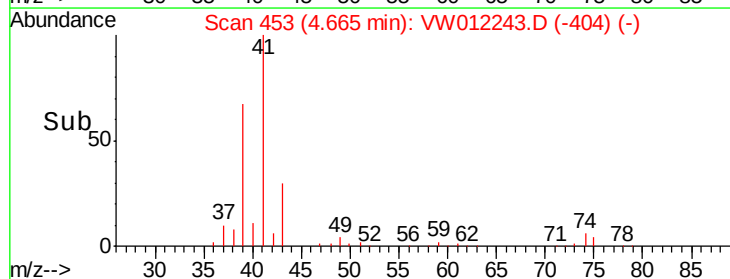
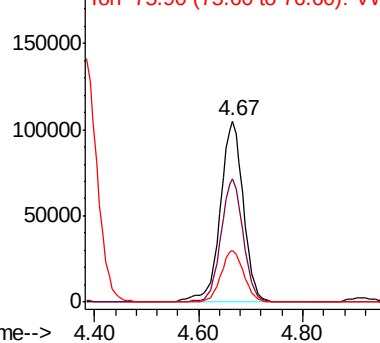
76 27.7 22.1 33.1

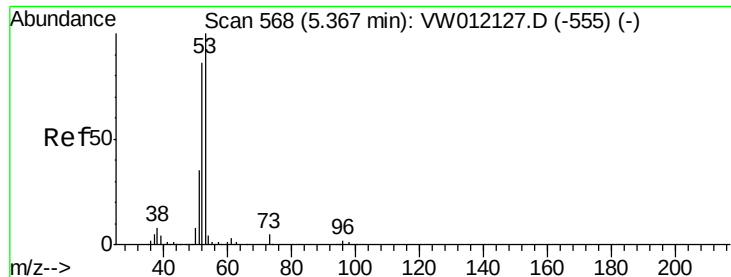


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 247.417 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

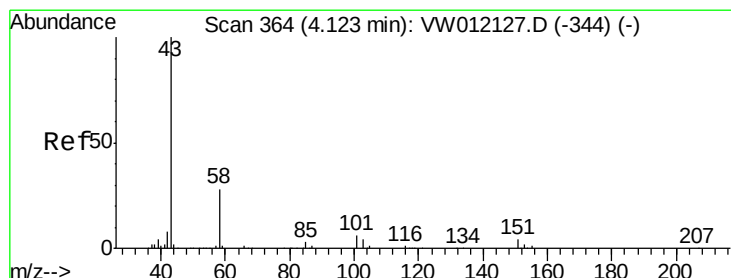
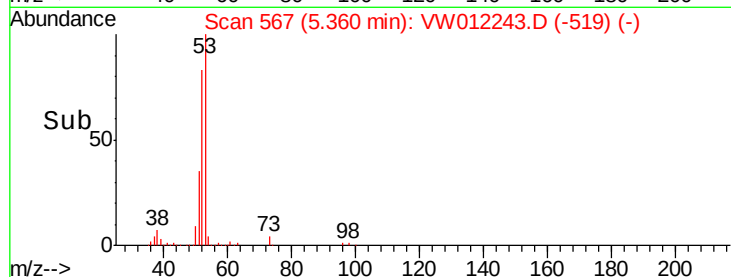
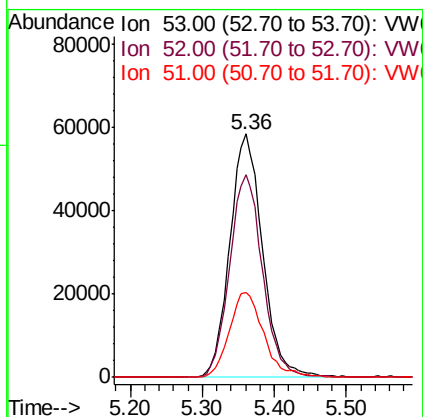
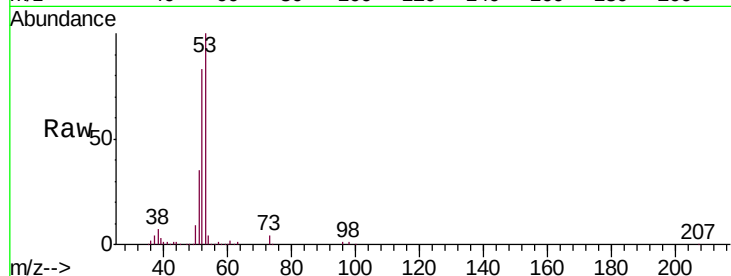
Tot Ion: 53 Resp: 184507

Ion Ratio Lower Upper

53 100

52 83.4 66.7 100.1

51 36.8 30.1 45.1



#16

Acetone

Concen: 240.119 ug/l

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW012243.D

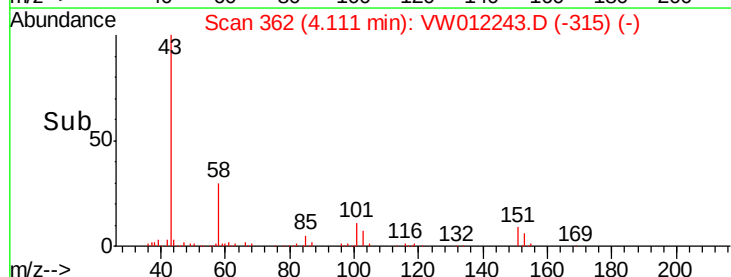
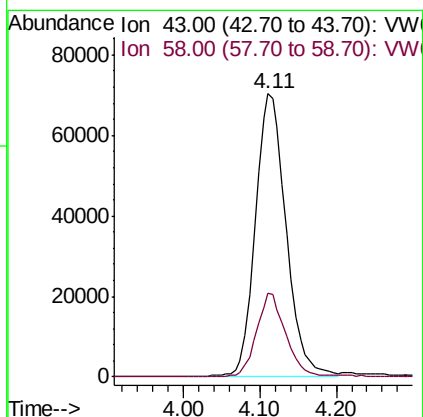
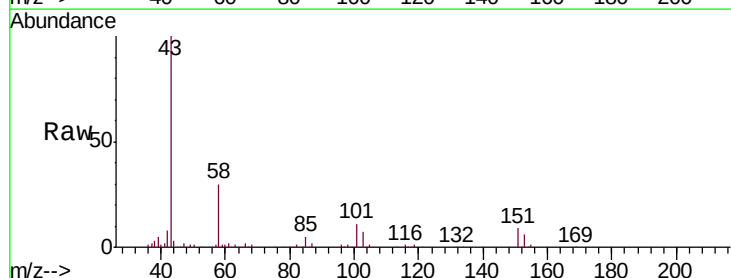
Acq: 28 Aug 2019 10:13

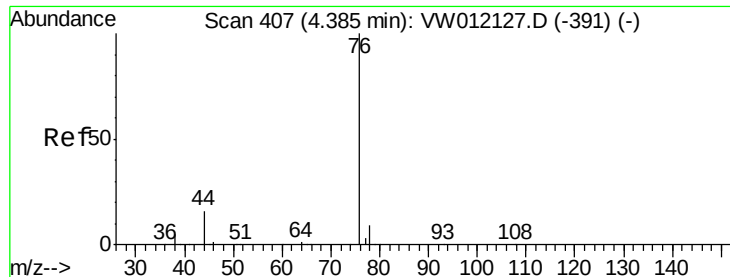
Tgt Ion: 43 Resp: 197265

Ion Ratio Lower Upper

43 100

58 29.6 22.4 33.6

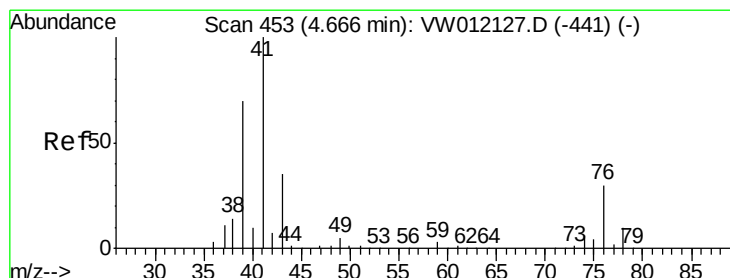
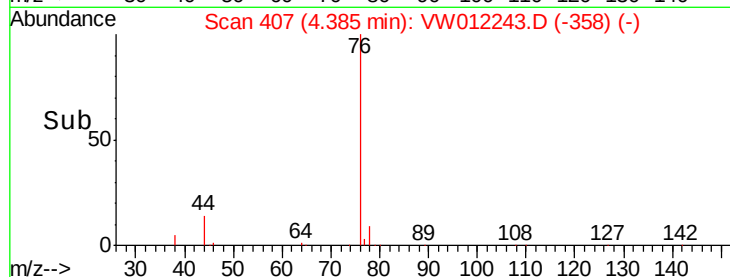
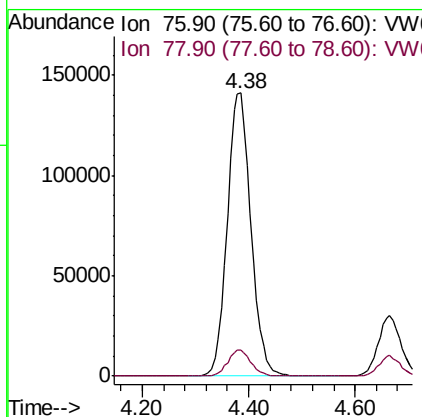
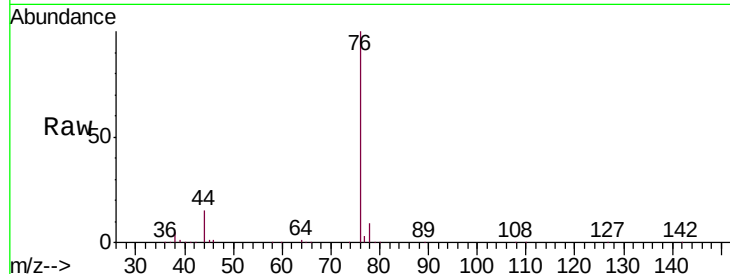




#17  
Carbon Disulfide  
Concen: 53.538 ug/l  
RT: 4.38 min Scan# 407  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

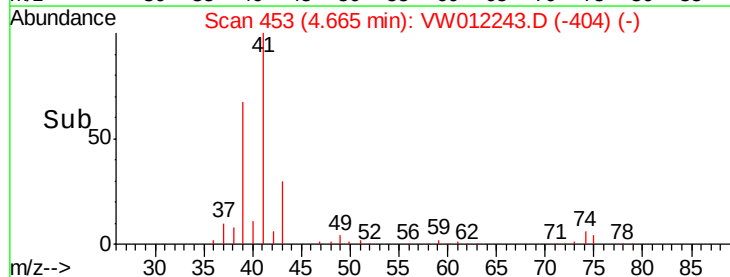
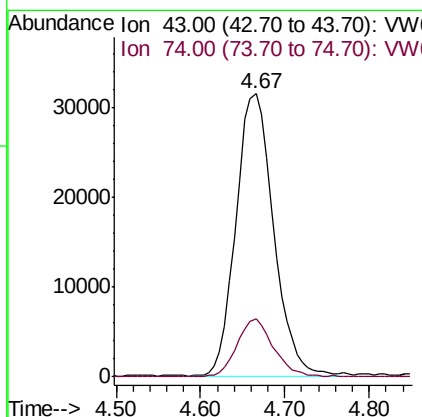
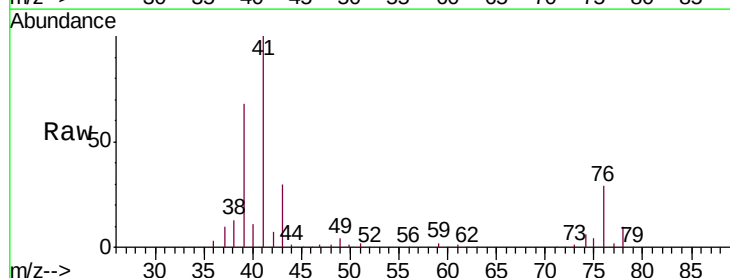
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

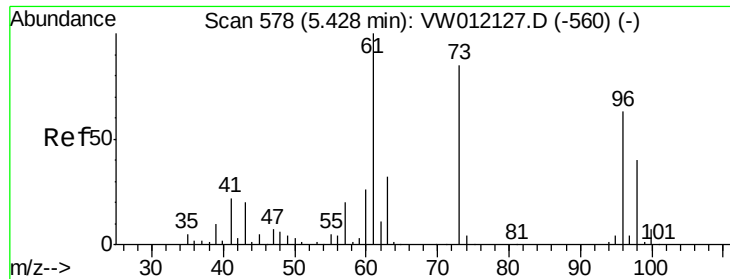
Tot Ion: 76 Resp: 438776  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.3 10.9



#18  
Methyl Acetate  
Concen: 46.884 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion: 43 Resp: 95398  
Ion Ratio Lower Upper  
43 100  
74 19.9 15.7 23.5

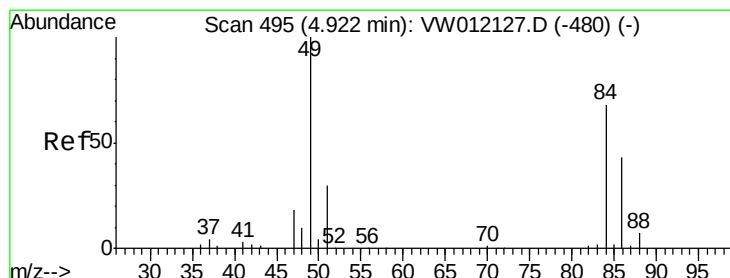
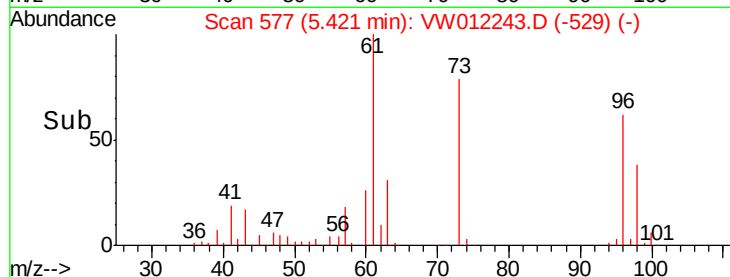
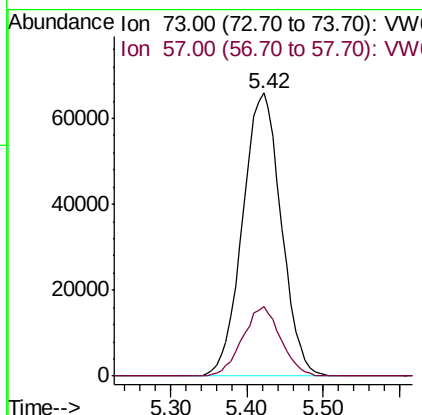
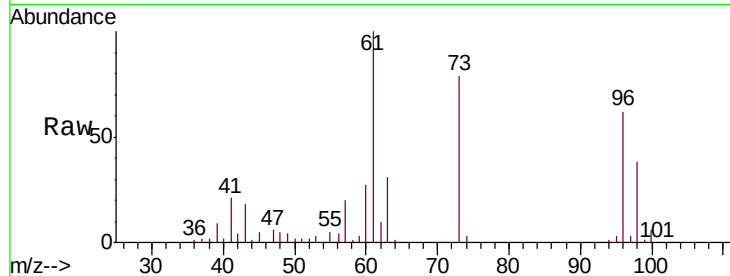




#19  
Methyl tert-butyl Ether  
Concen: 52.830 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

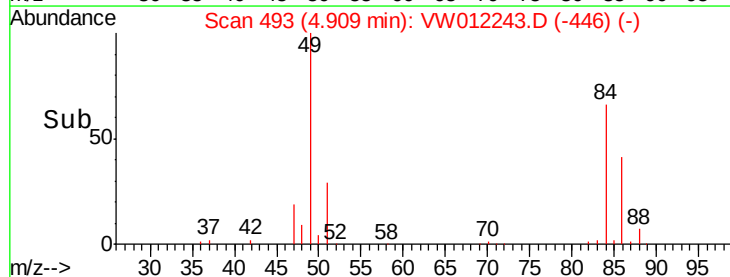
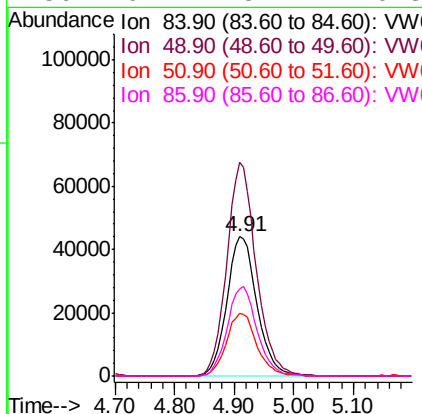
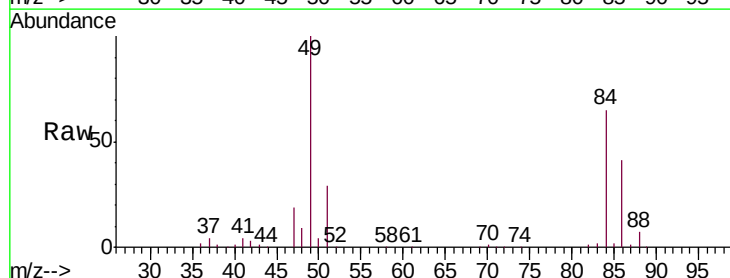
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

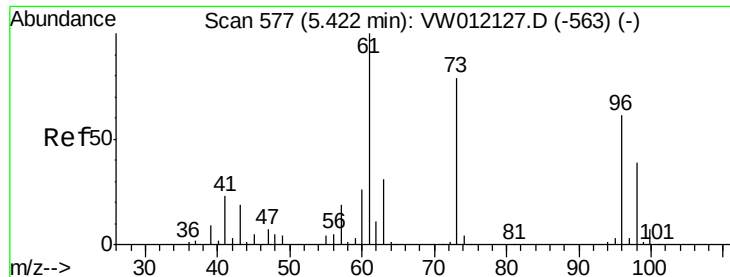
Tot Ion: 73 Resp: 231680  
Ion Ratio Lower Upper  
73 100  
57 24.7 18.9 28.3



#20  
Methylene Chloride  
Concen: 49.739 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion: 84 Resp: 154476  
Ion Ratio Lower Upper  
84 100  
49 153.2 117.8 176.8  
51 44.8 35.6 53.4  
86 62.7 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 52.877 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

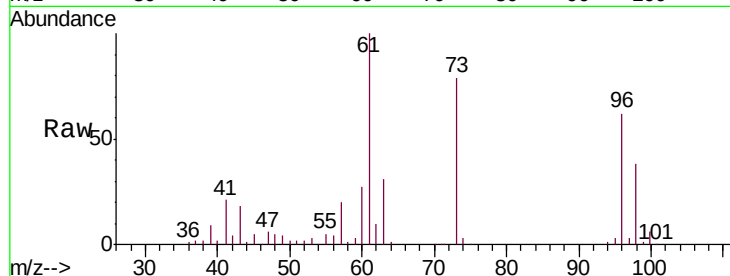
Tot Ion: 96 Resp: 153766

Ion Ratio Lower Upper

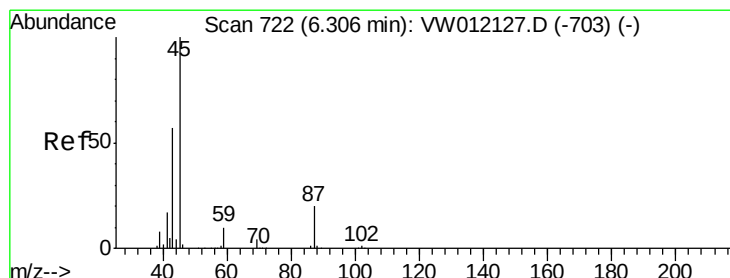
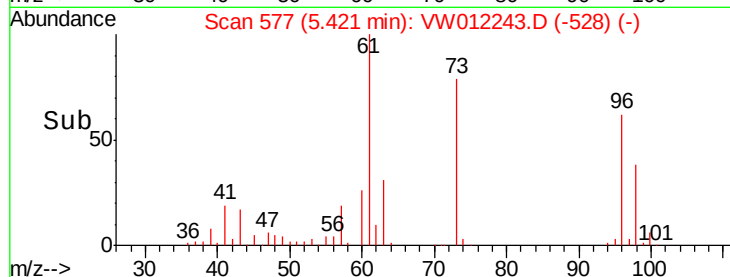
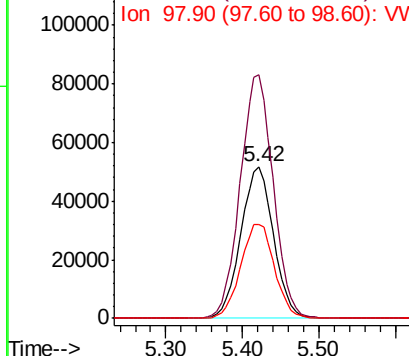
96 100

61 160.5 131.4 197.0

98 61.7 51.4 77.0



Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 53.010 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Tgt Ion: 45 Resp: 569646

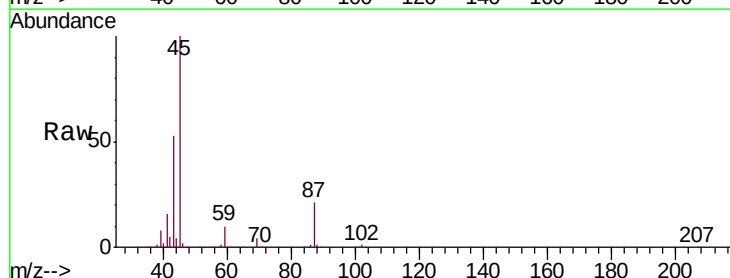
Ion Ratio Lower Upper

45 100

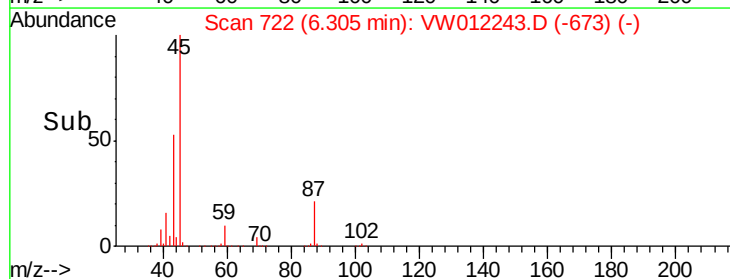
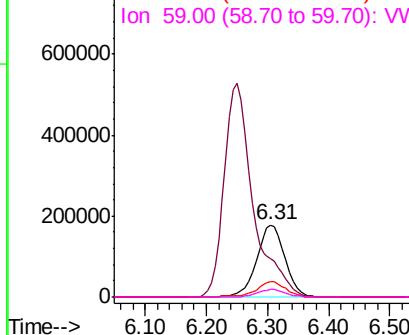
43 53.2 45.5 68.3

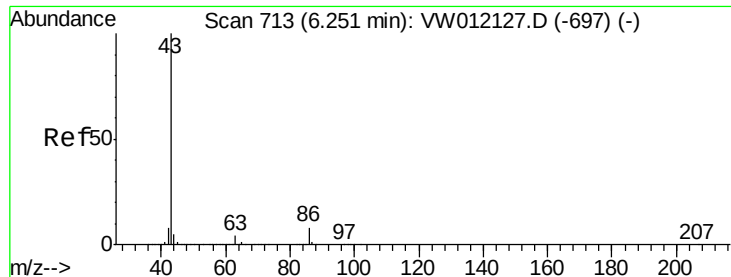
87 21.1 16.1 24.1

59 9.9 8.2 12.2



Abundance Ion 45.00 (44.70 to 45.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 87.00 (86.70 to 87.70): VW  
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 262.053 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

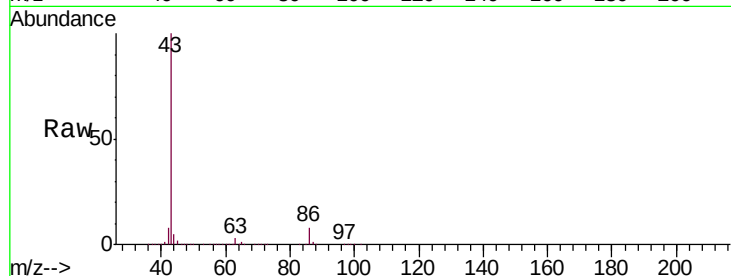
BFB

Tot Ion: 43 Resp: 1733028

Ion Ratio Lower Upper

43 100

86 8.2 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.25

600000

500000

400000

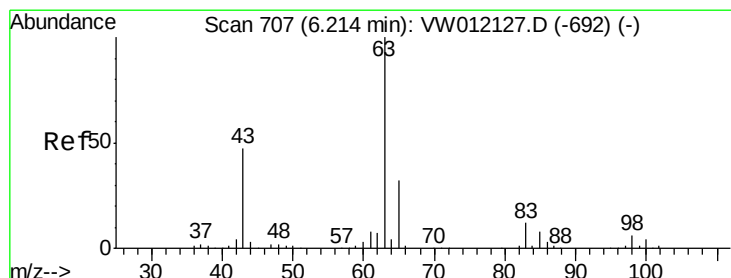
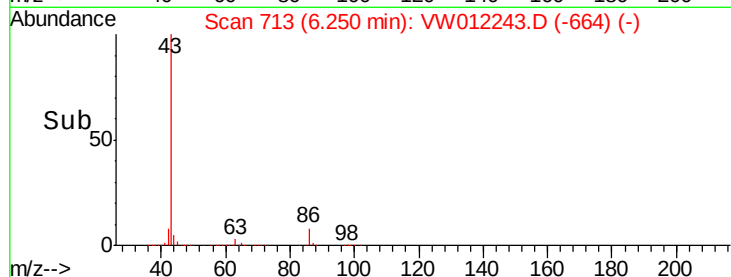
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 52.567 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

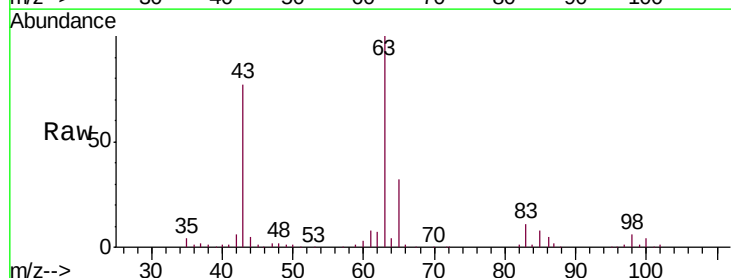
Tgt Ion: 63 Resp: 307572

Ion Ratio Lower Upper

63 100

98 6.4 3.0 9.2

100 3.8 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

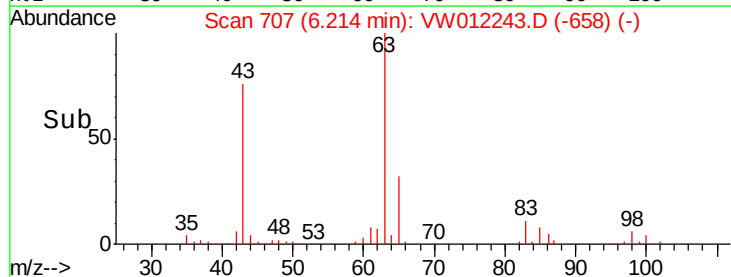
6.21

100000

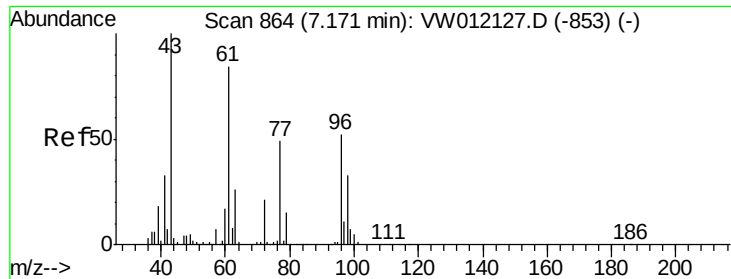
50000

0

Time-->







#25

2-Butanone

Concen: 243.956 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampled :

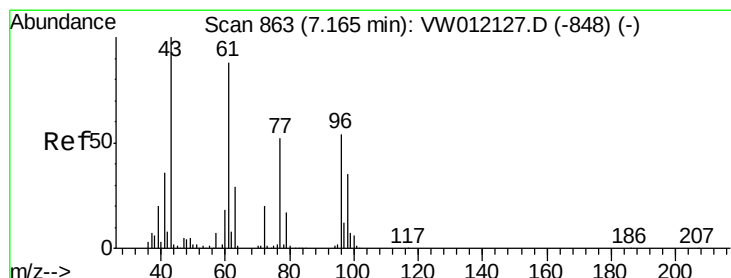
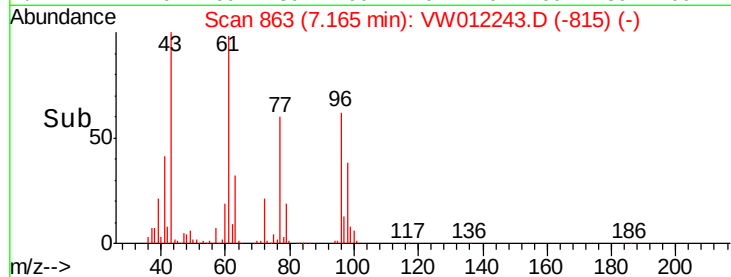
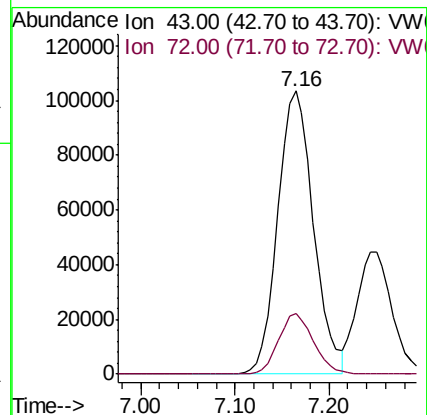
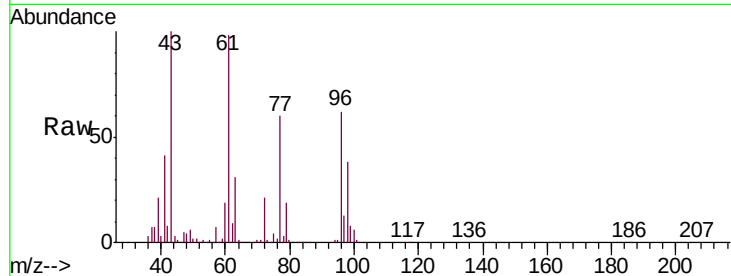
BFB

Tot Ion: 43 Resp: 272344

Ion Ratio Lower Upper

43 100

72 21.2 16.6 24.8



#26

2,2-Dichloropropane

Concen: 55.043 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW012243.D

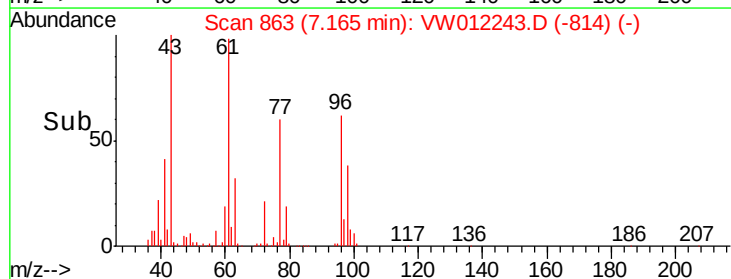
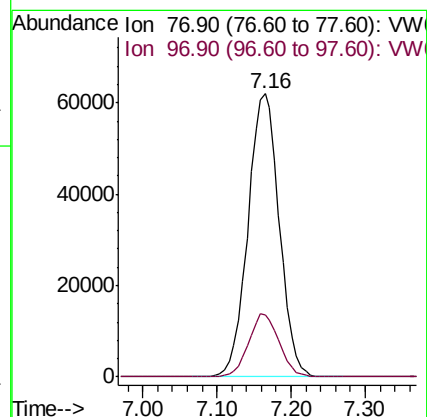
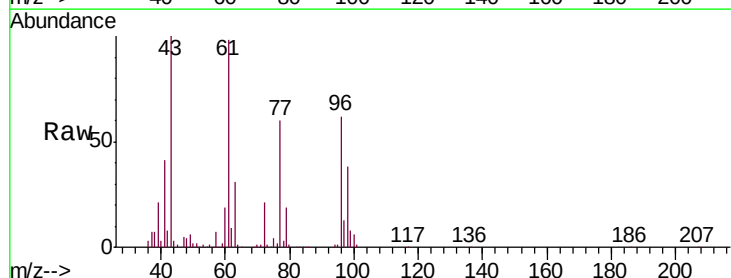
Acq: 28 Aug 2019 10:13

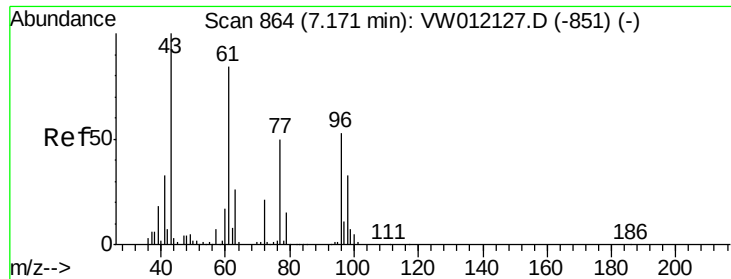
Tgt Ion: 77 Resp: 182287

Ion Ratio Lower Upper

77 100

97 21.7 11.1 33.1



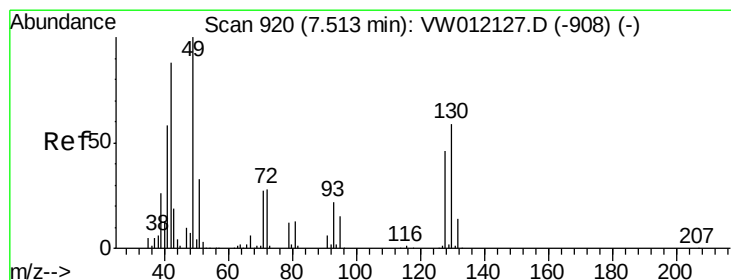
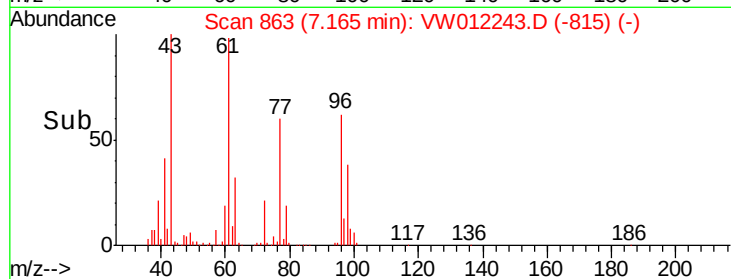
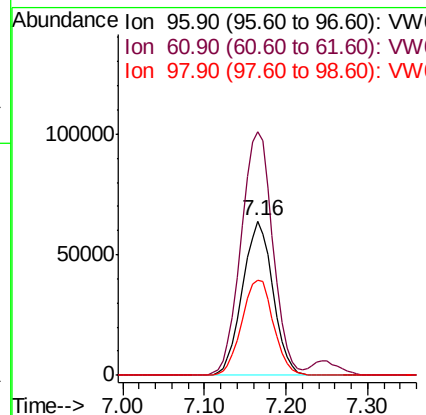
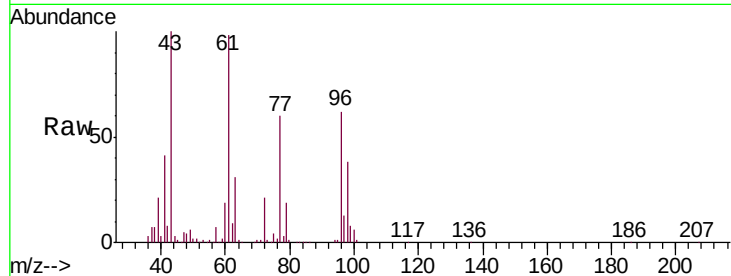


#27

cis-1,2-Dichloroethene  
Concen: 53.380 ug/l  
RT: 7.16 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

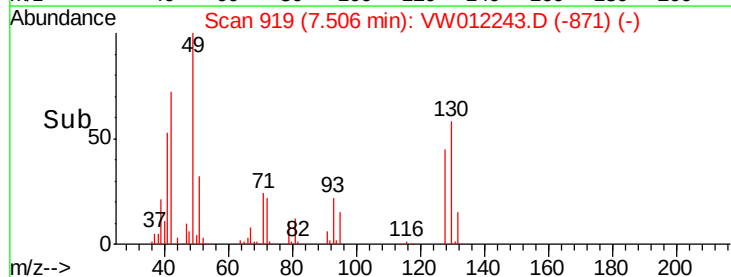
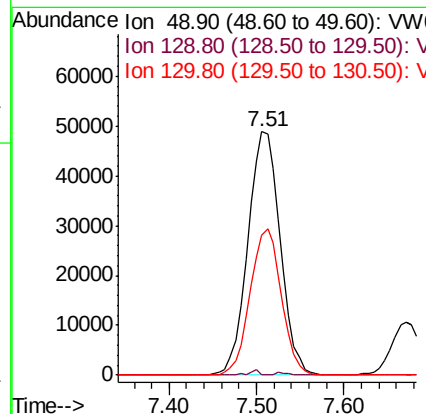
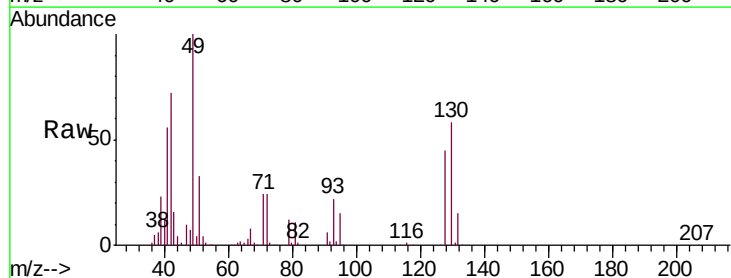
| Tot Ion   | 96    | Resp  | 165847 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 164.4 | 0.0   | 326.6  |
| 98        | 64.0  | 0.0   | 127.4  |

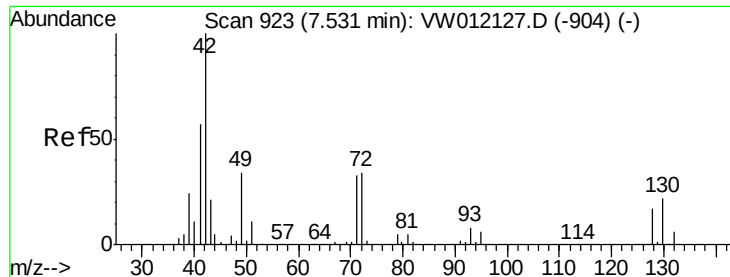


#28

Bromochloromethane  
Concen: 48.980 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

| Tgt Ion   | 49    | Resp  | 124907 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 49        | 100   |       |        |
| 129       | 0.6   | 0.0   | 1.4    |
| 130       | 58.3  | 45.5  | 68.3   |

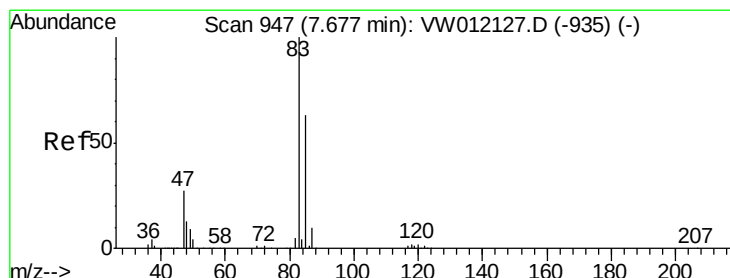
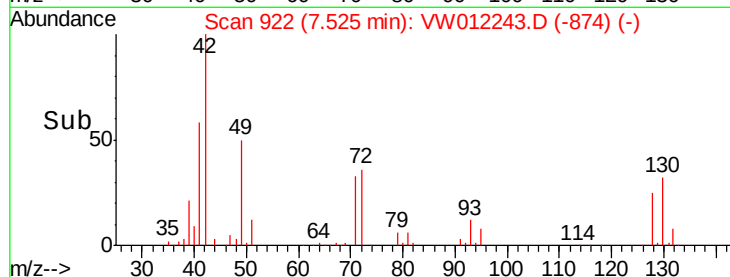
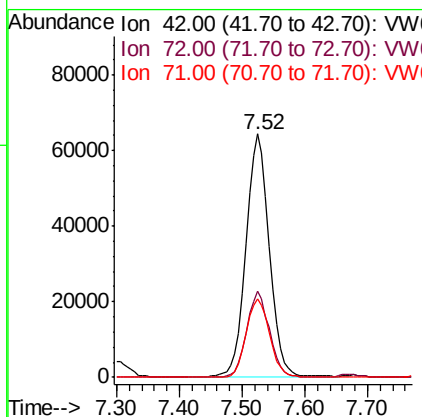
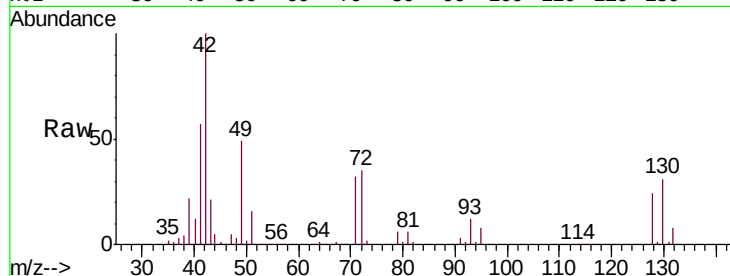




#29  
Tetrahydrofuran  
Concen: 247.695 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

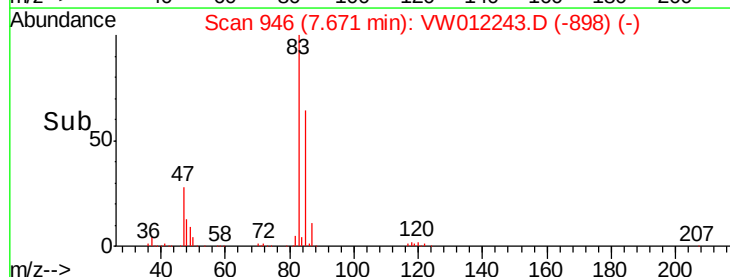
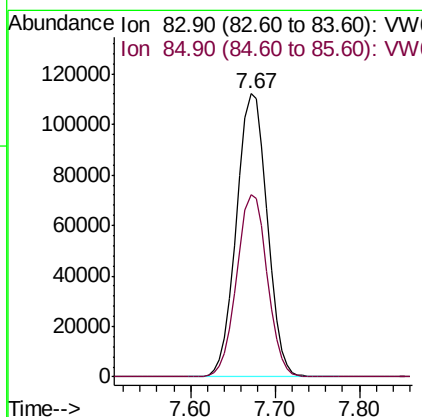
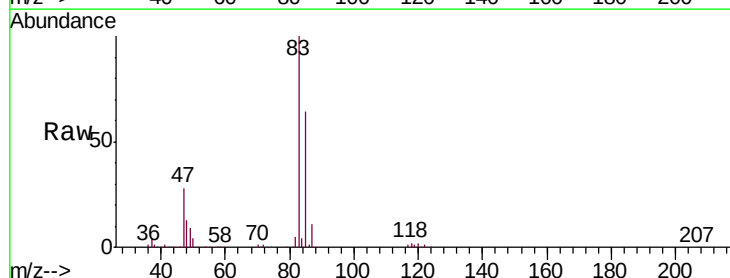
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

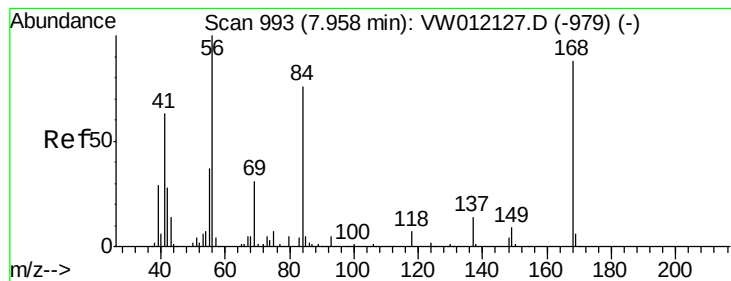
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 34.2  | 27.3  | 40.9  |
| 71      | 32.4  | 25.5  | 38.3  |



#30  
Chloroform  
Concen: 51.678 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.3  | 50.6  | 76.0  |





#31

Cyclohexane

Concen: 50.248 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

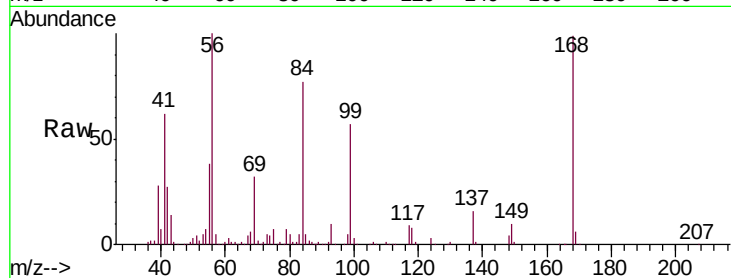
Tot Ion: 56 Resp: 290877

Ion Ratio Lower Upper

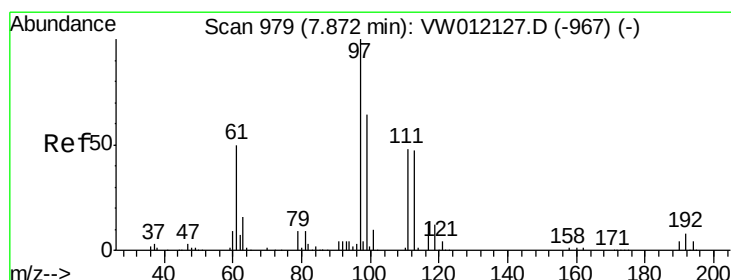
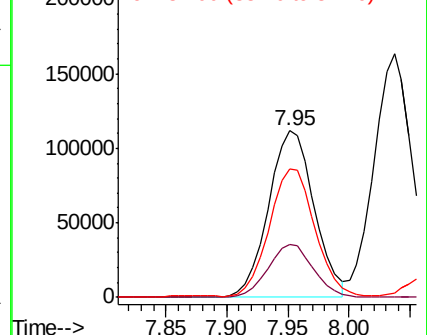
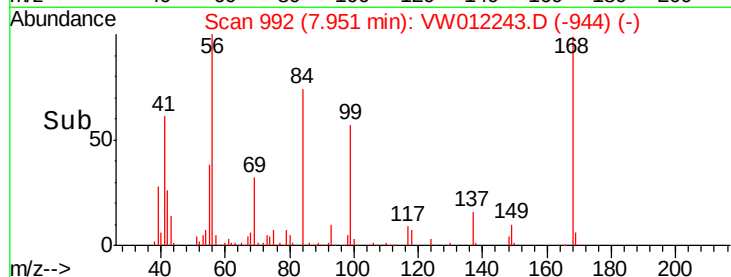
56 100

69 32.0 24.9 37.3

84 75.6 60.6 90.8



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: 52.942 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

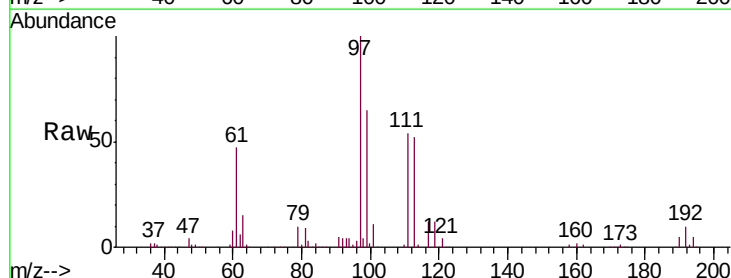
Tgt Ion: 97 Resp: 224192

Ion Ratio Lower Upper

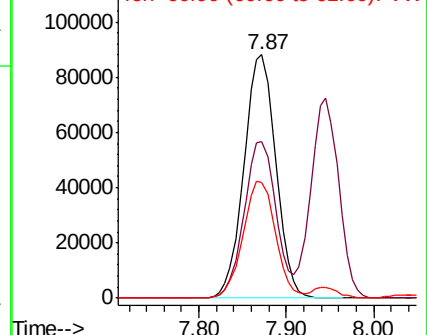
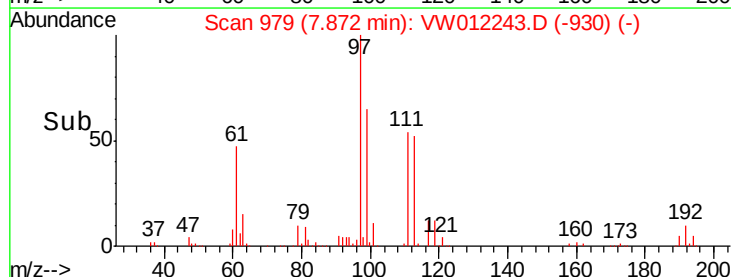
97 100

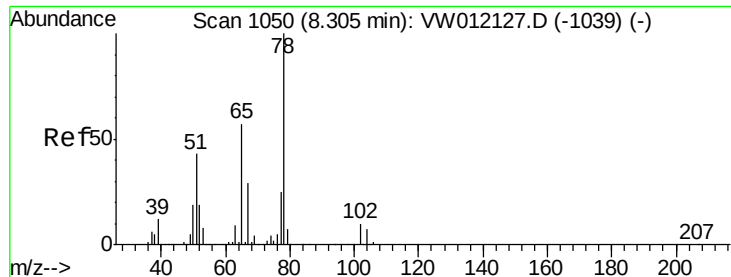
99 64.9 51.4 77.0

61 48.6 39.5 59.3



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

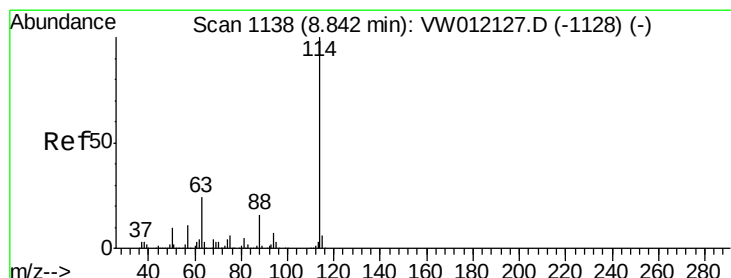
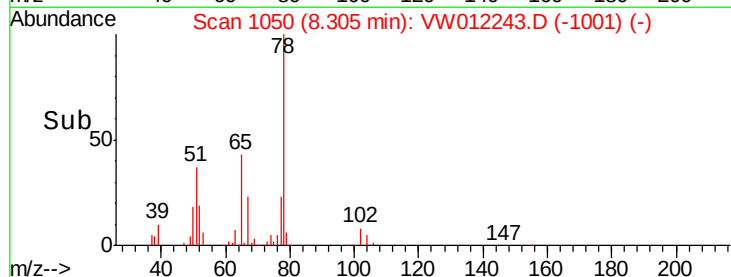
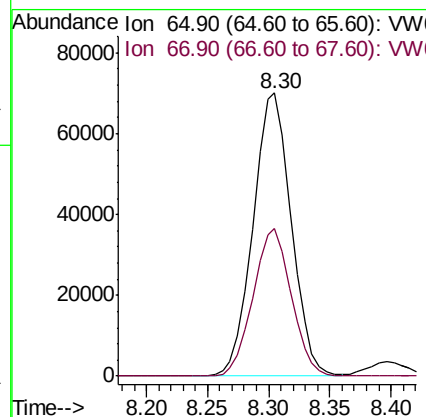
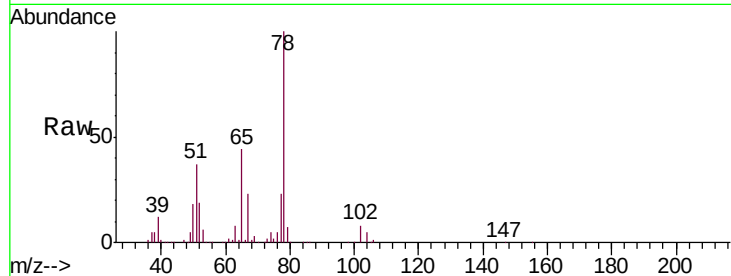




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.415 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

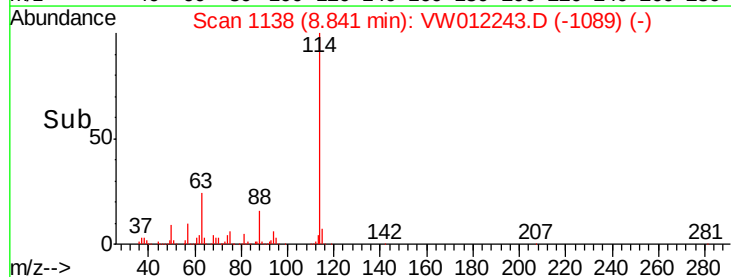
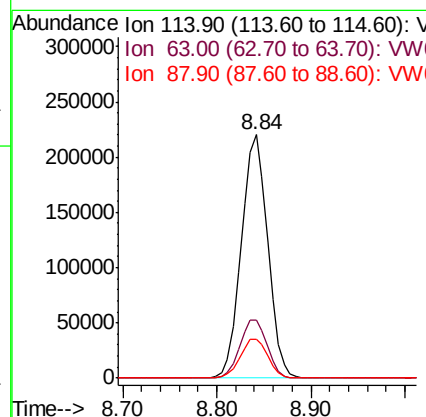
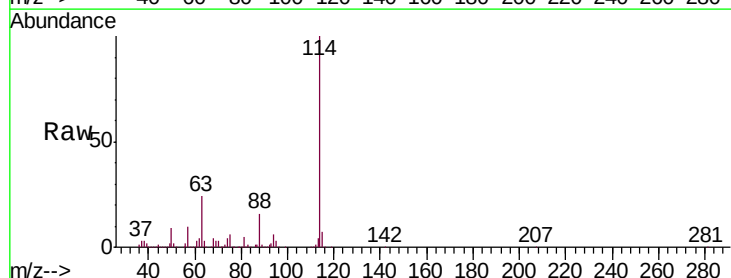
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

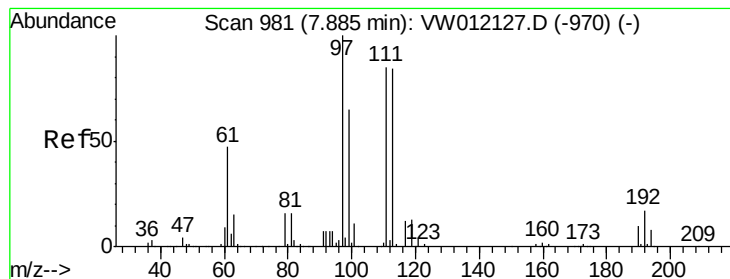
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 52.1  | 0.0   | 102.6 |



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.1  | 0.0   | 48.6  |
| 88      | 16.2  | 0.0   | 32.2  |





#35

Dibromofluoromethane

Concen: 49.622 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

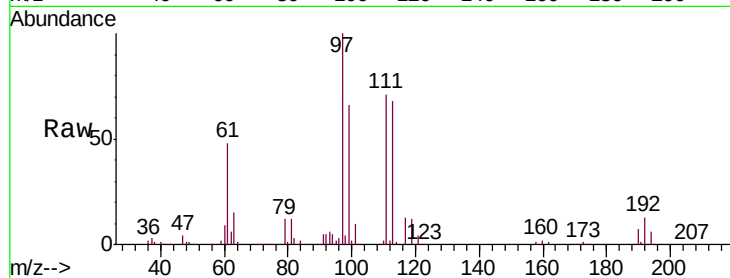
Tot Ion:113 Resp: 127151

Ion Ratio Lower Upper

113 100

111 102.9 82.7 124.1

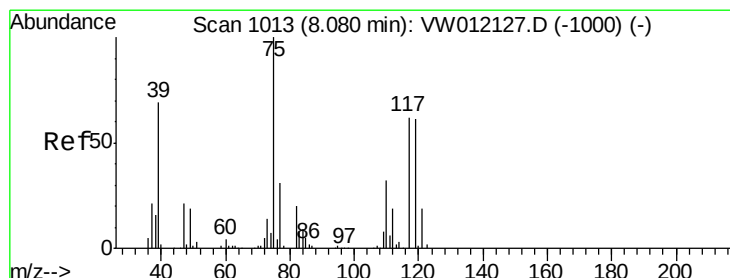
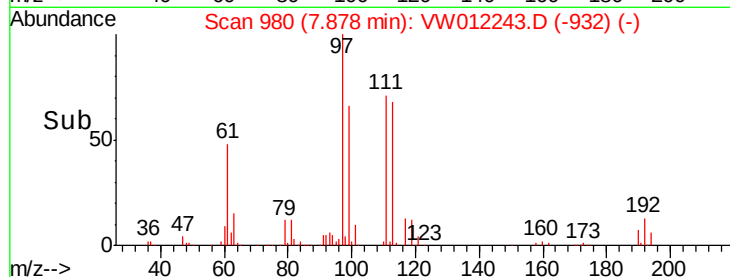
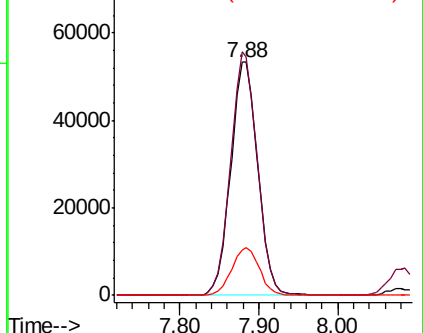
192 20.7 16.2 24.2



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: 53.315 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

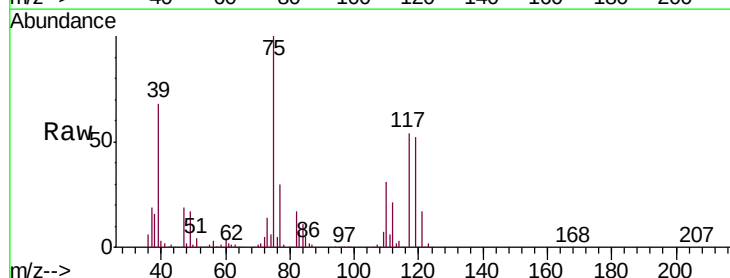
Tgt Ion: 75 Resp: 236510

Ion Ratio Lower Upper

75 100

110 31.8 15.6 46.8

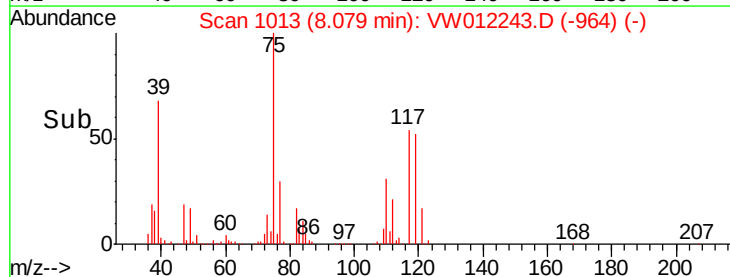
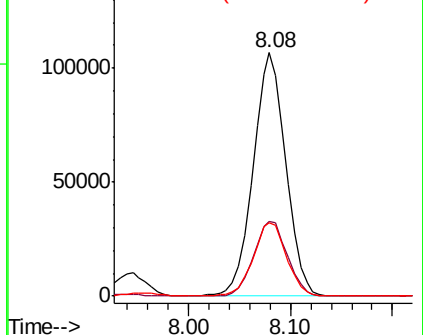
77 31.1 24.6 36.8

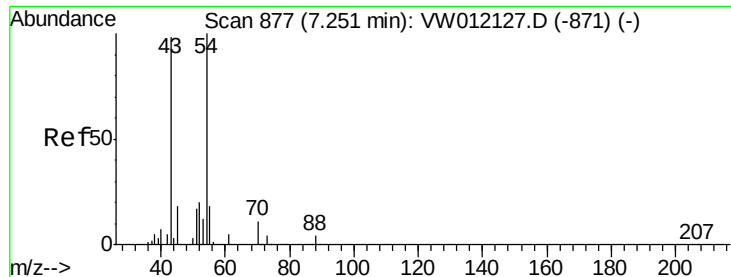


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

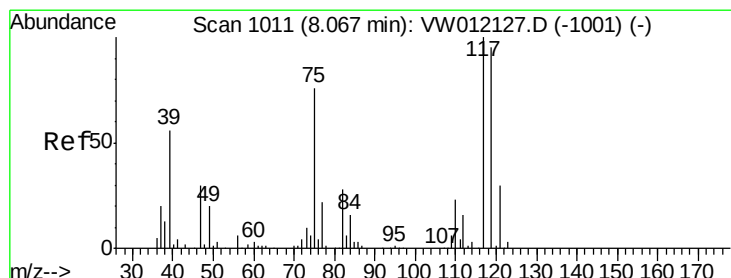
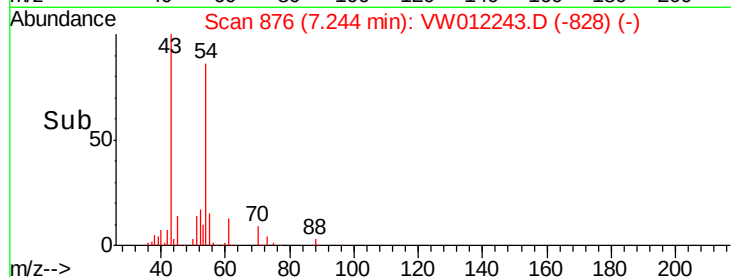
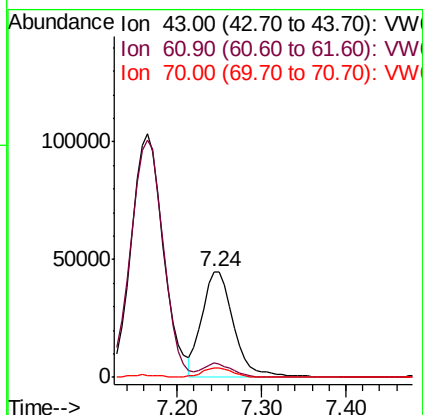
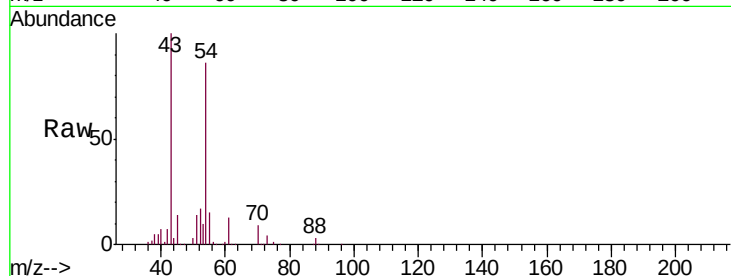




#37  
Ethyl Acetate  
Concen: 48.127 ug/l  
RT: 7.24 min Scan# 876  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

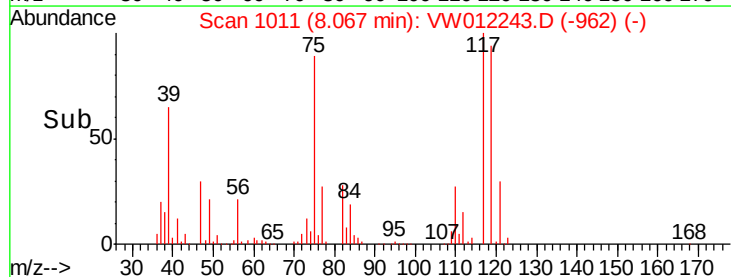
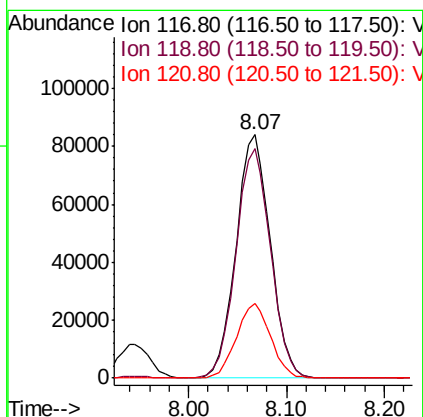
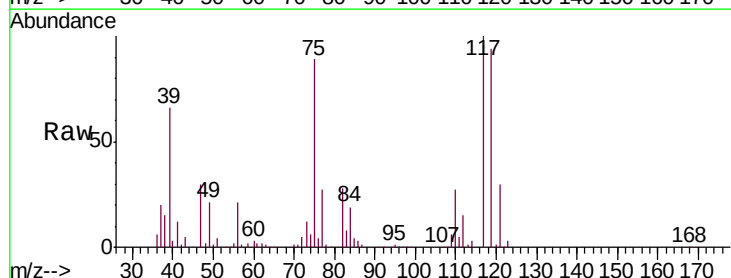
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

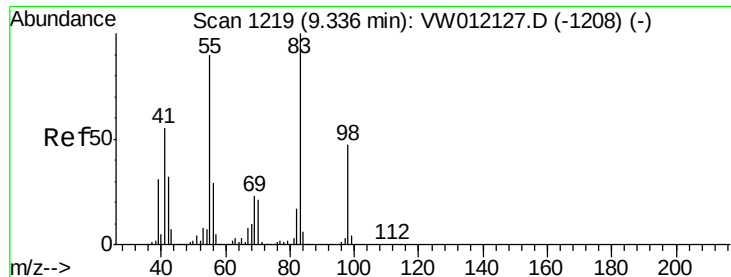
Tot Ion: 43 Resp: 116992  
Ion Ratio Lower Upper  
43 100  
61 12.5 9.2 13.8  
70 8.5 6.9 10.3



#38  
Carbon Tetrachloride  
Concen: 53.195 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion: 117 Resp: 204243  
Ion Ratio Lower Upper  
117 100  
119 94.1 76.2 114.2  
121 30.5 23.8 35.8

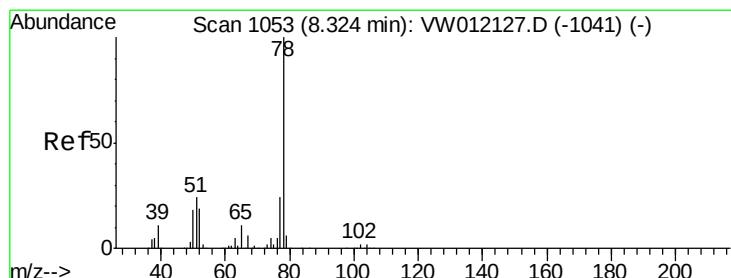
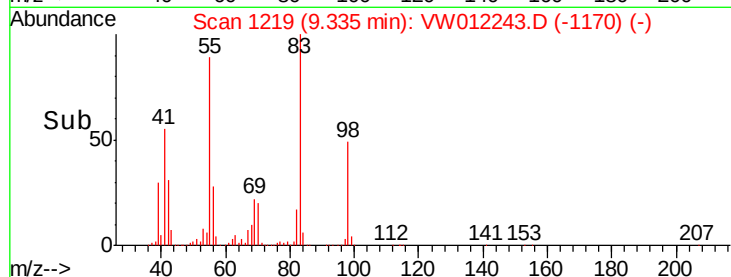
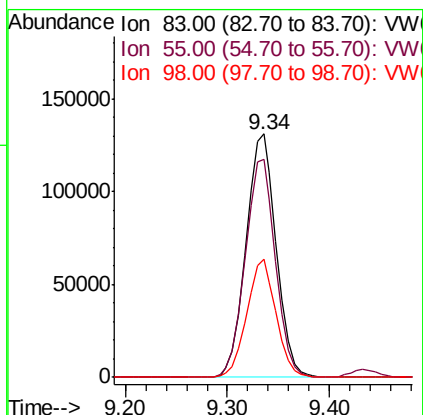
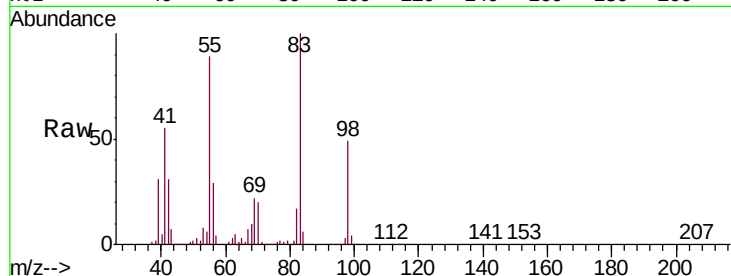




#39  
Methylvlcyclohexane  
Concen: 54.061 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

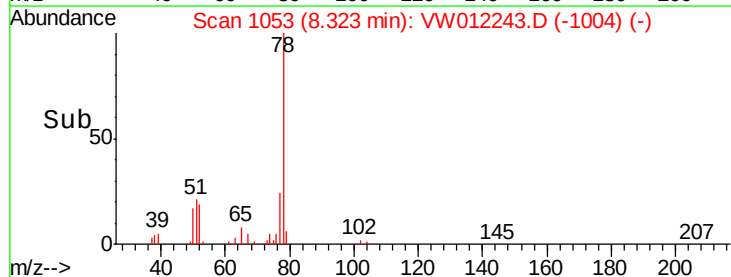
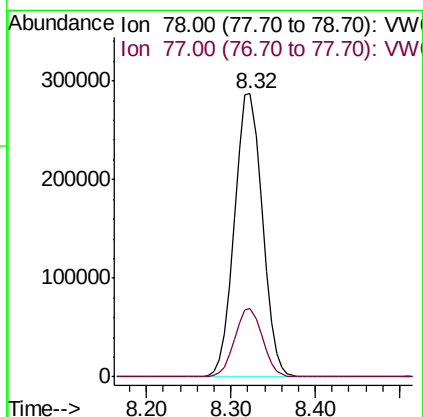
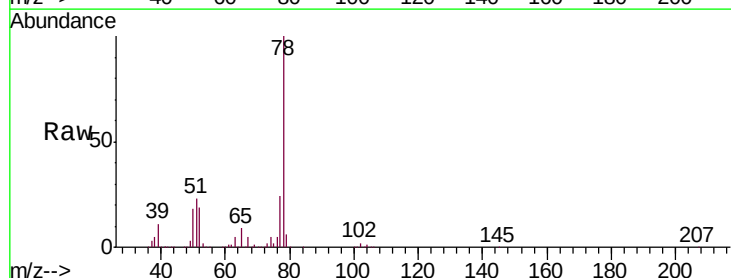
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

Tot Ion: 83 Resp: 269418  
Ion Ratio Lower Upper  
83 100  
55 89.4 71.8 107.8  
98 48.7 37.8 56.8

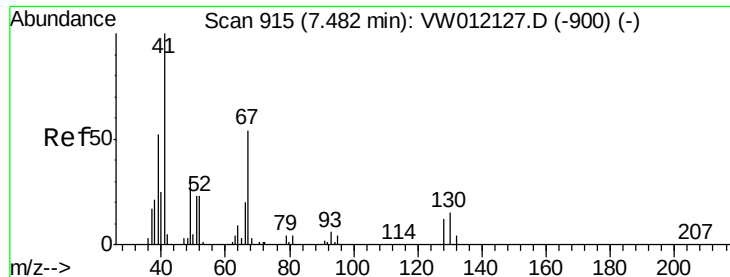


#40  
Benzene  
Concen: 52.948 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion: 78 Resp: 641359  
Ion Ratio Lower Upper  
78 100  
77 24.0 19.5 29.3



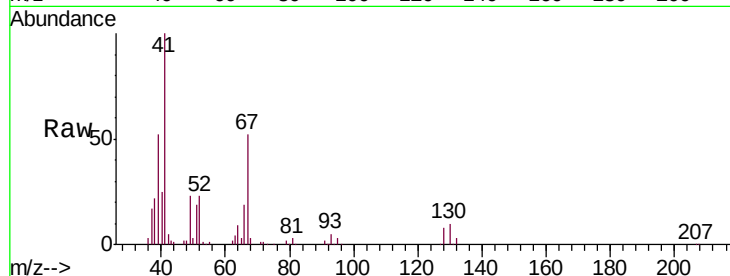




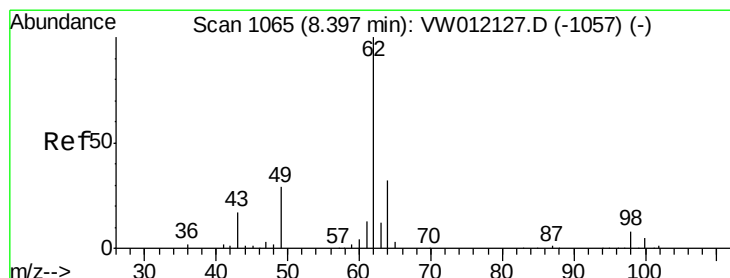
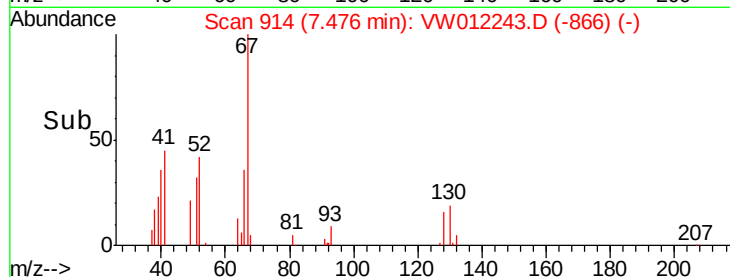
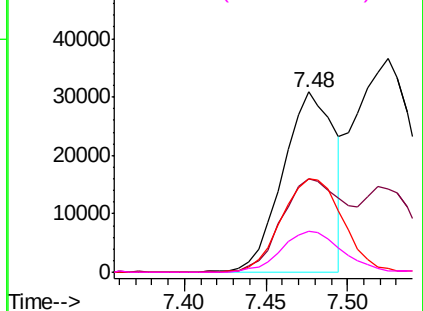
#41  
Methacrylonitrile  
Concen: 47.367 ug/l  
RT: 7.48 min Scan# 914  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 67674 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 66.4  | 45.8  | 68.8  |
| 67       | 62.0  | 46.2  | 69.4  |
| 52       | 27.3  | 21.0  | 31.6  |

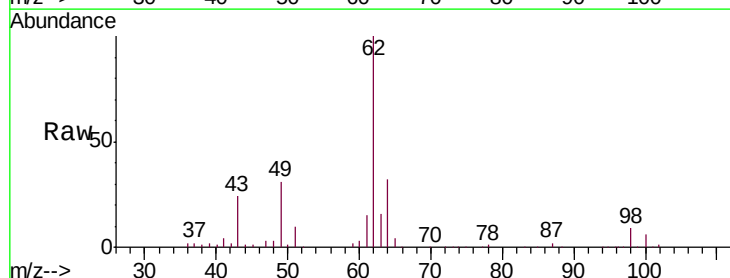


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

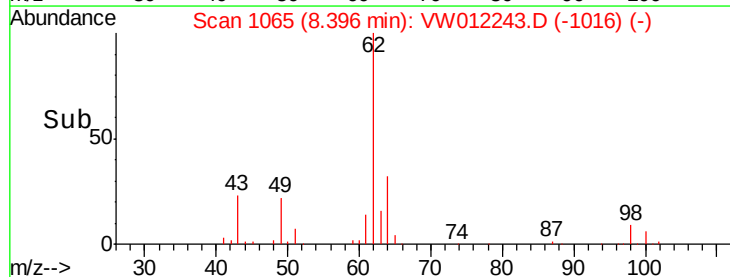
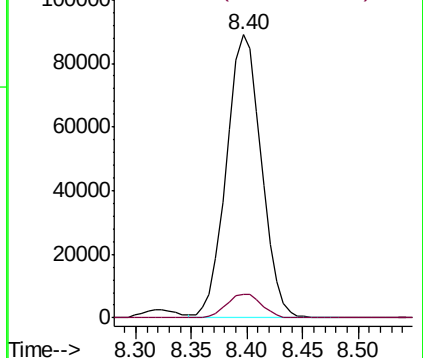


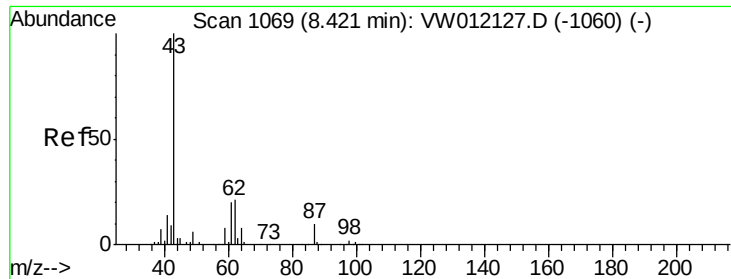
#42  
1,2-Dichloroethane  
Concen: 50.834 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 192984 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 8.5   | 0.0   | 16.6   |



Abundance Ion 61.90 (61.60 to 62.60): VW  
Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 50.652 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

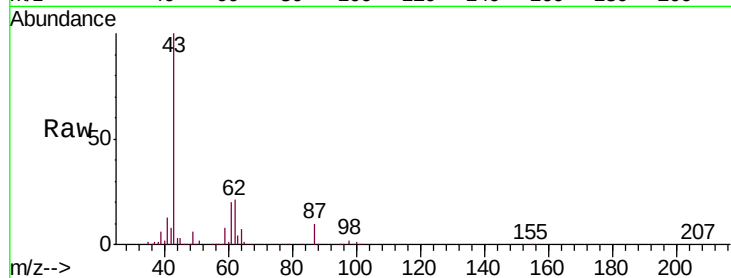
Tot Ion: 43 Resp: 228075

Ion Ratio Lower Upper

43 100

61 26.8 21.1 31.7

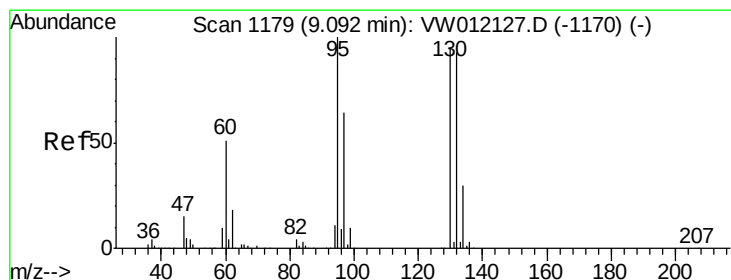
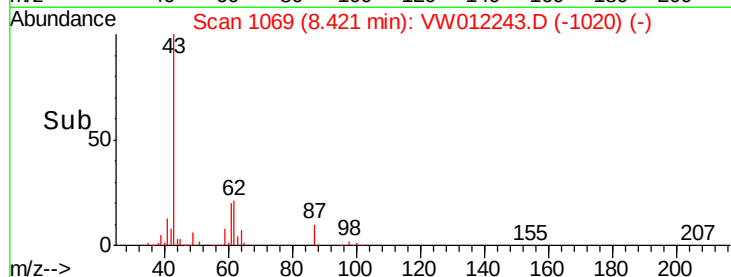
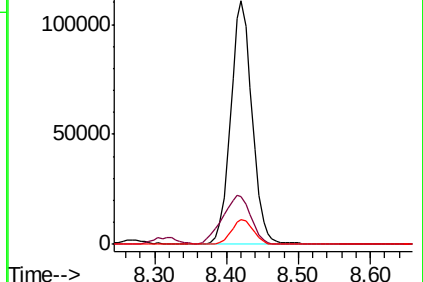
87 10.5 8.2 12.2



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: 53.260 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012243.D

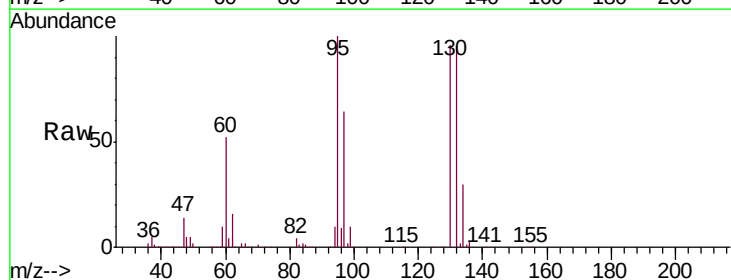
Acq: 28 Aug 2019 10:13

Tgt Ion:130 Resp: 156830

Ion Ratio Lower Upper

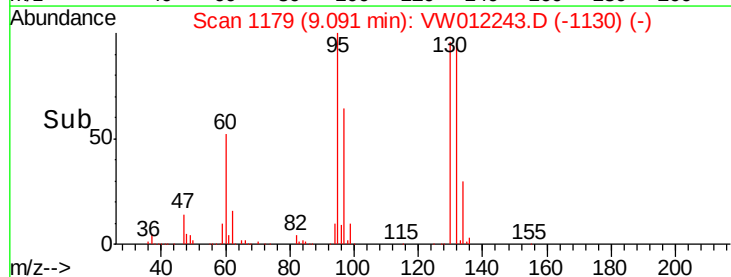
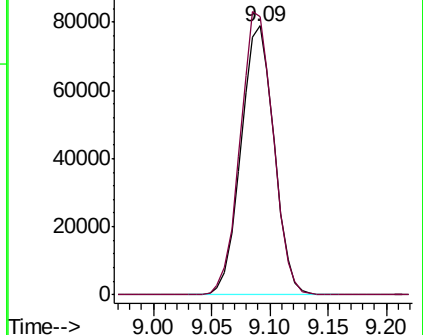
130 100

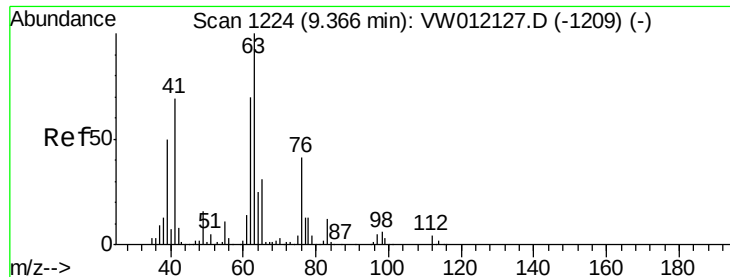
95 103.7 0.0 210.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

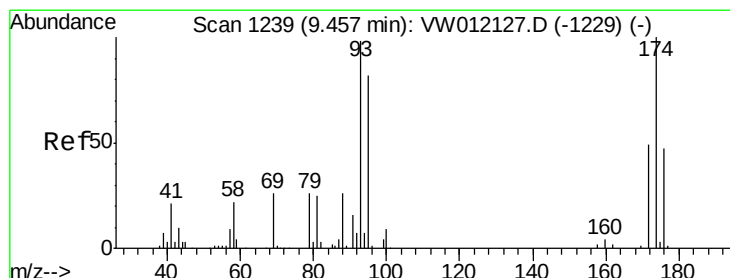
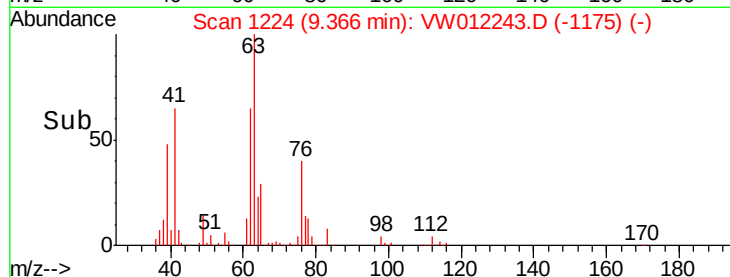
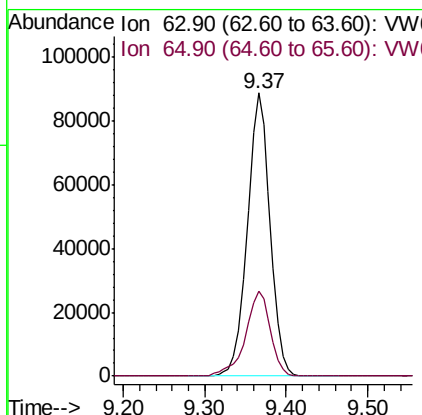
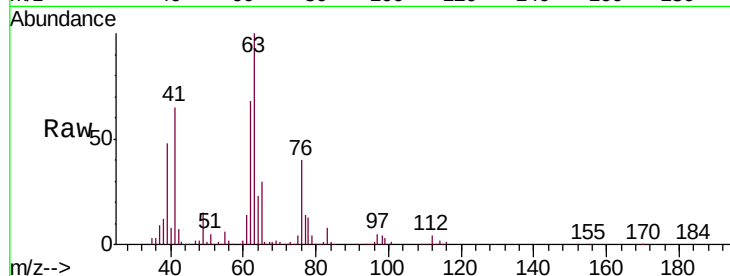




#45  
 1,2-Dichloropropane  
 Concen: 52.768 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

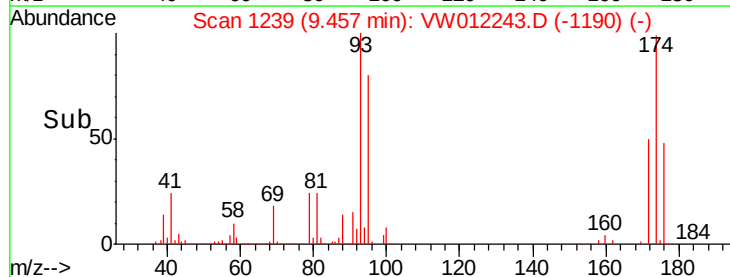
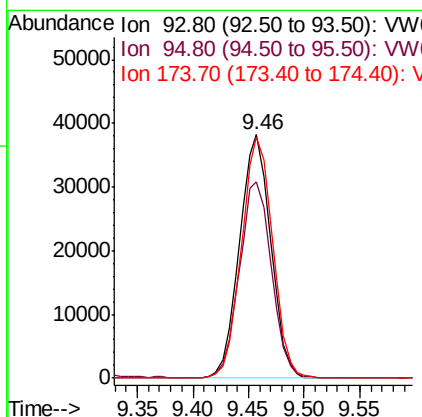
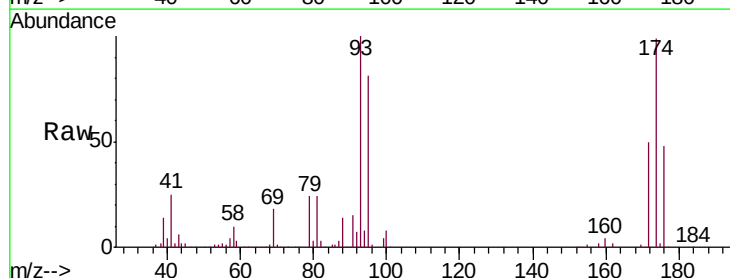
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

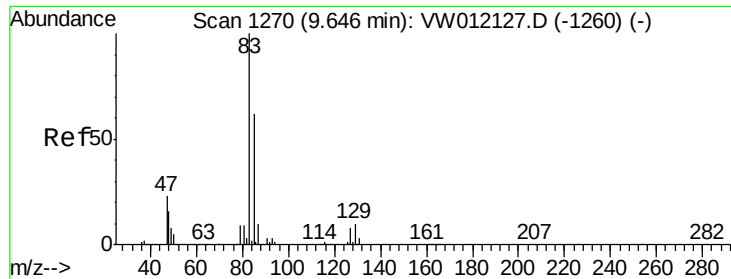
Tot Ion: 63 Resp: 172023  
 Ion Ratio Lower Upper  
 63 100  
 65 29.9 25.0 37.4



#46  
 Dibromomethane  
 Concen: 51.275 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Tgt Ion: 93 Resp: 74373  
 Ion Ratio Lower Upper  
 93 100  
 95 83.1 67.2 100.8  
 174 99.2 79.0 118.6





#47

Bromodichloromethane

Concen: 52.482 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampled :

BFB

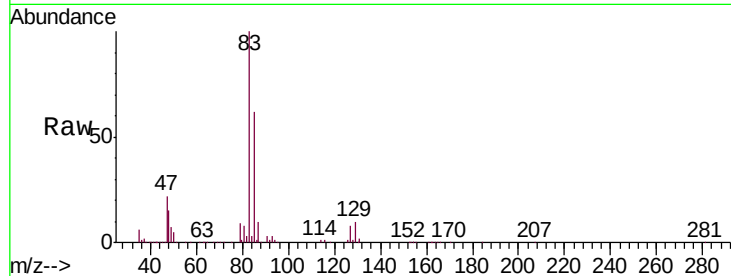
Tot Ion: 83 Resp: 202598

Ion Ratio Lower Upper

83 100

85 62.5 49.4 74.2

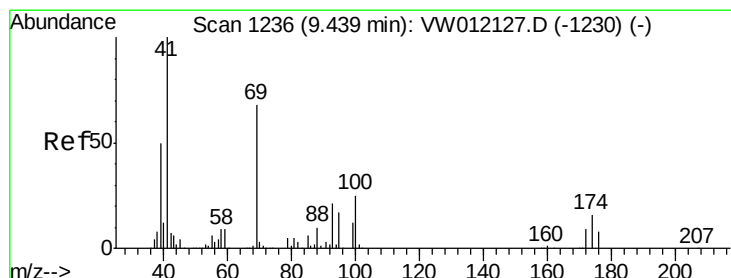
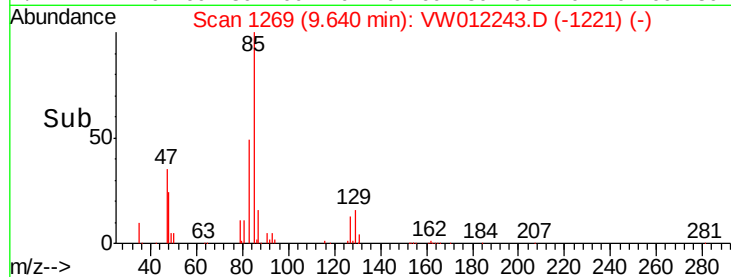
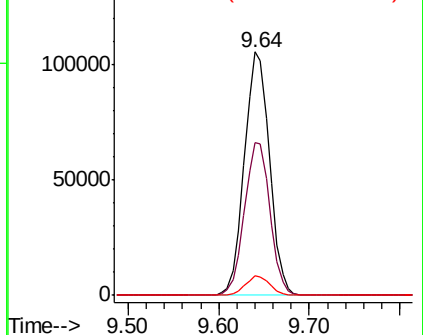
127 7.9 6.1 9.1



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: 51.120 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

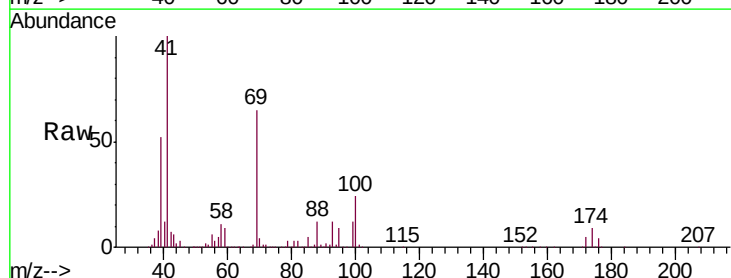
Tgt Ion: 41 Resp: 109556

Ion Ratio Lower Upper

41 100

69 72.4 56.7 85.1

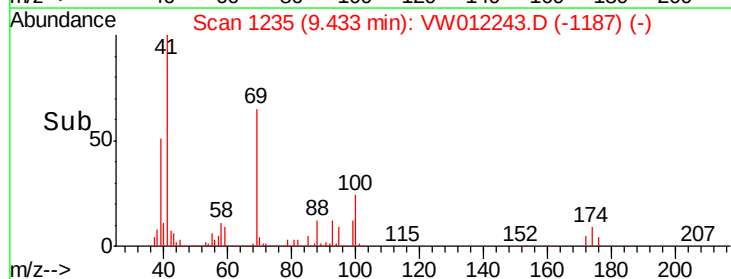
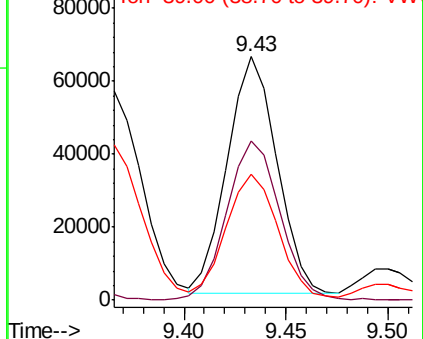
39 53.5 42.0 63.0

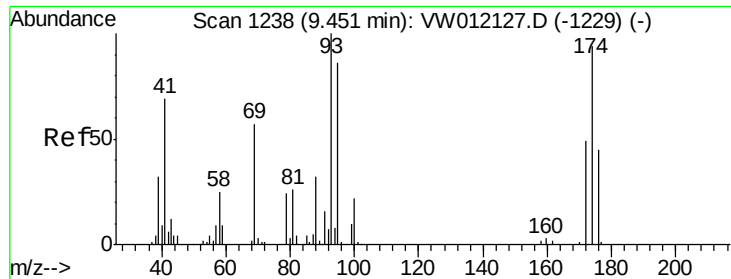


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 891.064 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

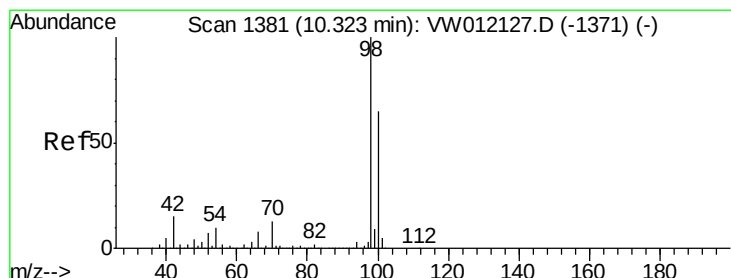
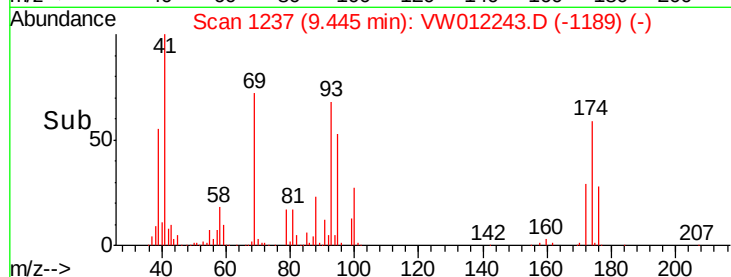
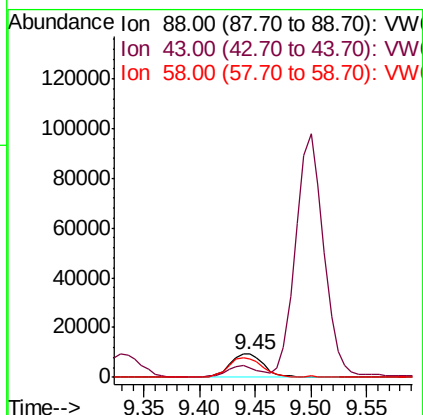
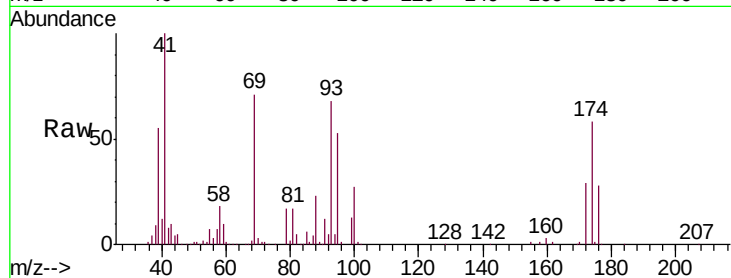
Tot Ion: 88 Resp: 19786

Ion Ratio Lower Upper

88 100

43 46.7 32.9 49.3

58 83.4 71.0 106.4



#50

Toluene-d8

Concen: 50.419 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012243.D

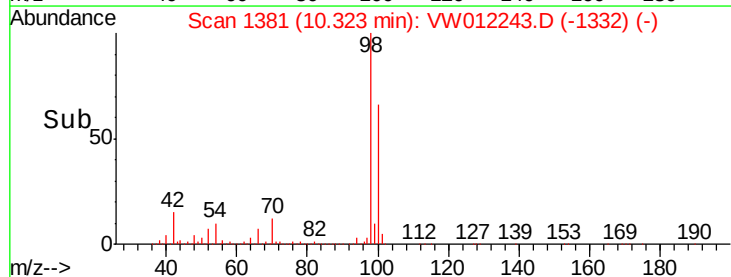
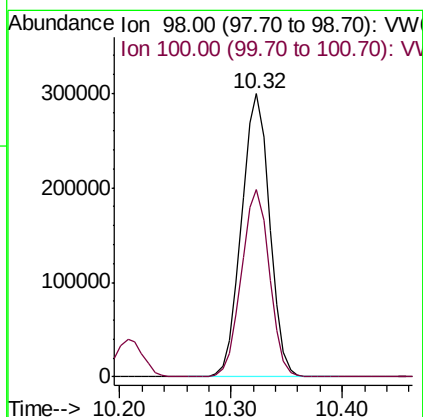
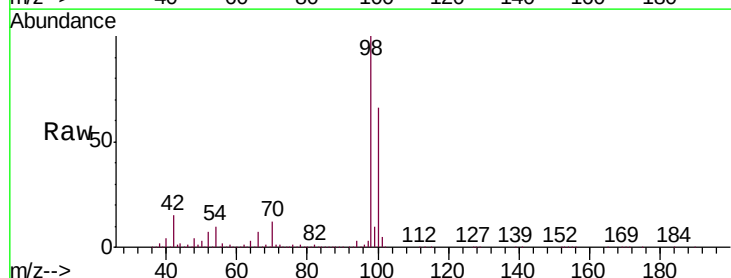
Acq: 28 Aug 2019 10:13

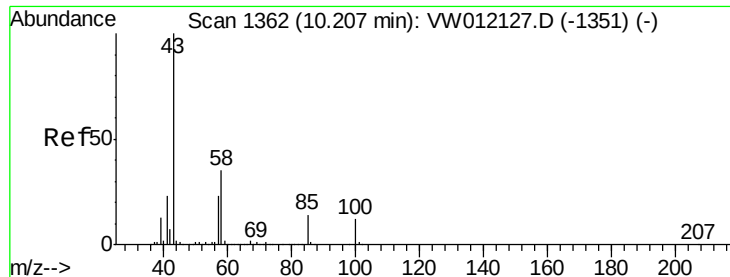
Tgt Ion: 98 Resp: 523835

Ion Ratio Lower Upper

98 100

100 66.0 52.4 78.6

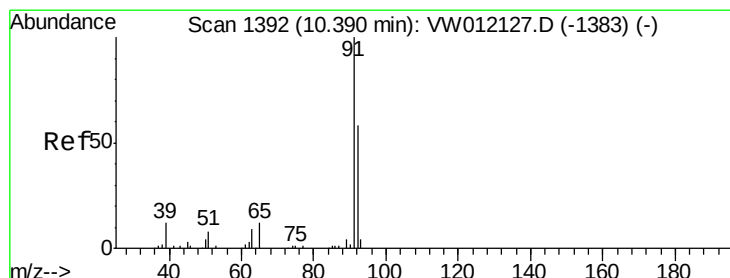
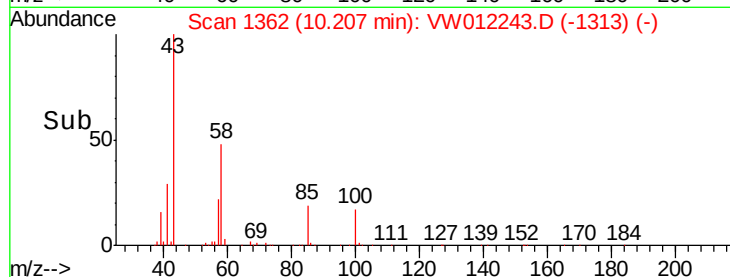
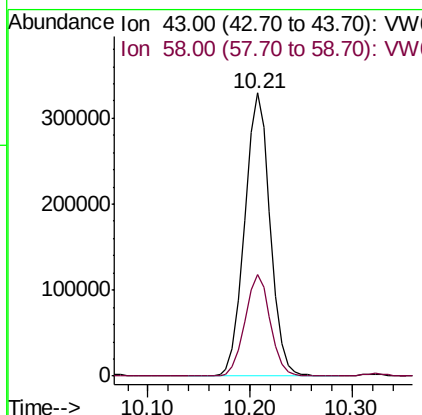
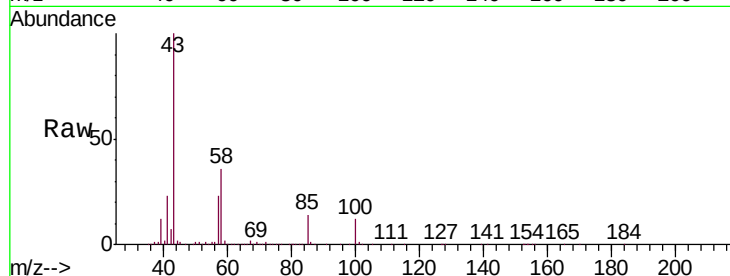




#51  
4-Methyl-2-Pentanone  
Concen: 248.868 ug/l  
RT: 10.21 min Scan# 1362  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

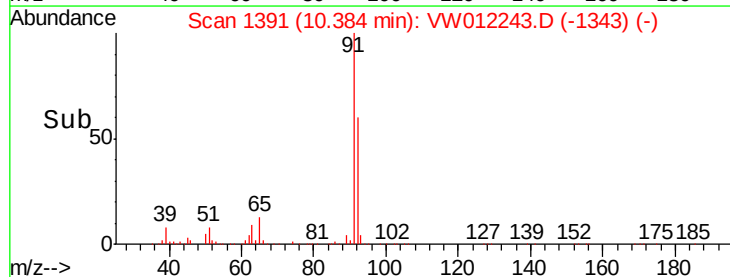
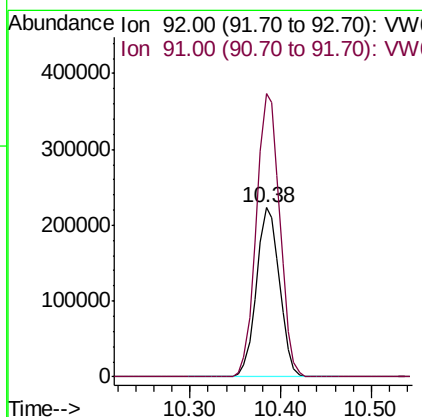
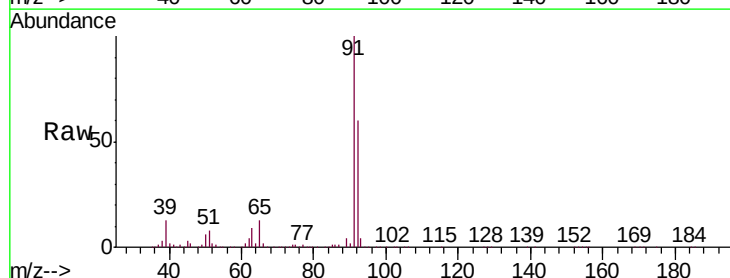
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

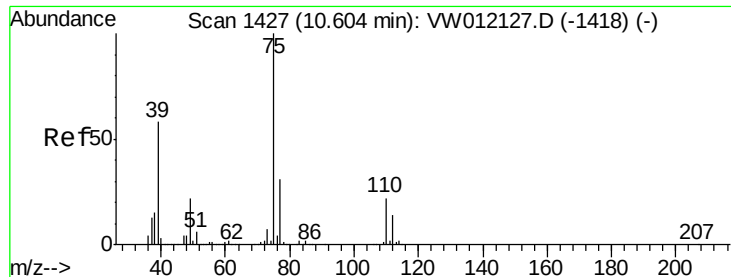
Tot Ion: 43 Resp: 569974  
Ion Ratio Lower Upper  
43 100  
58 35.6 28.2 42.2



#52  
Toluene  
Concen: 53.944 ug/l  
RT: 10.38 min Scan# 1391  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion: 92 Resp: 392545  
Ion Ratio Lower Upper  
92 100  
91 170.0 136.6 204.8





#53

t-1,3-Dichloropropene

Concen: 54.670 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampled :

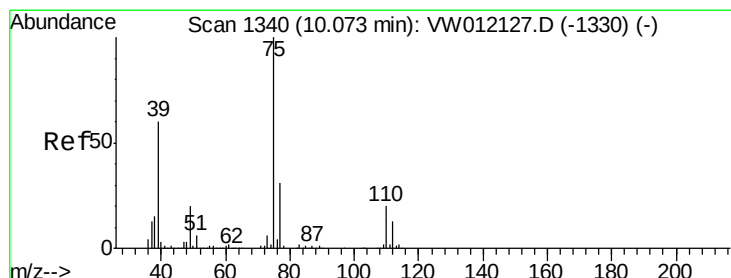
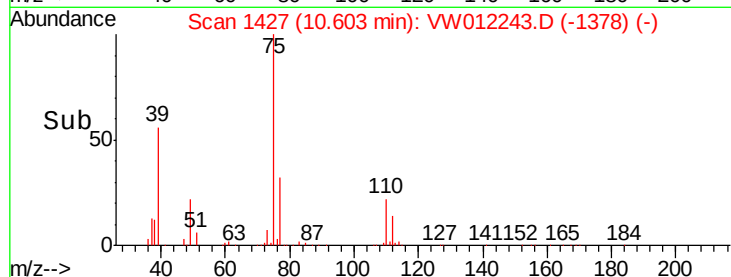
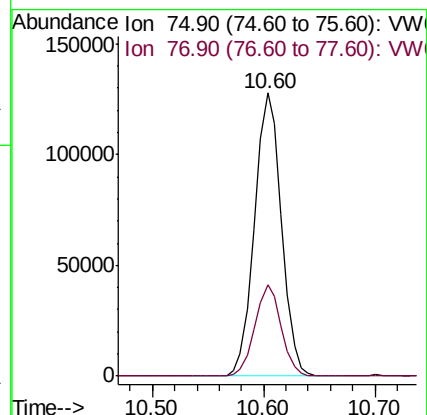
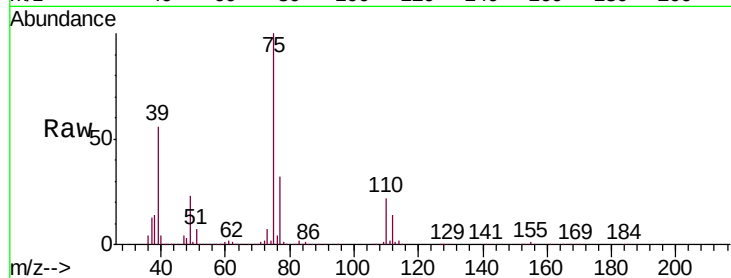
BFB

Tot Ion: 75 Resp: 214972

Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 54.351 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

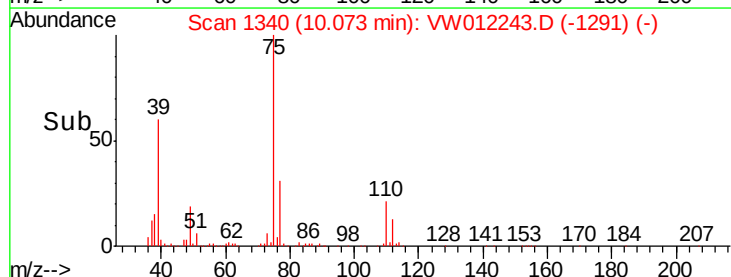
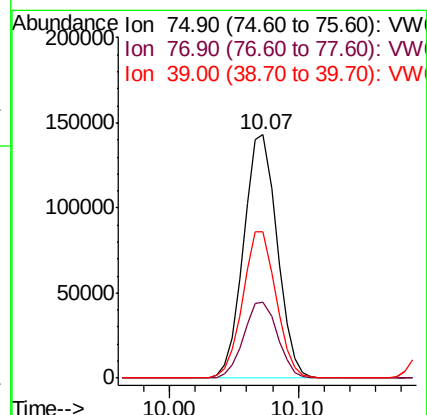
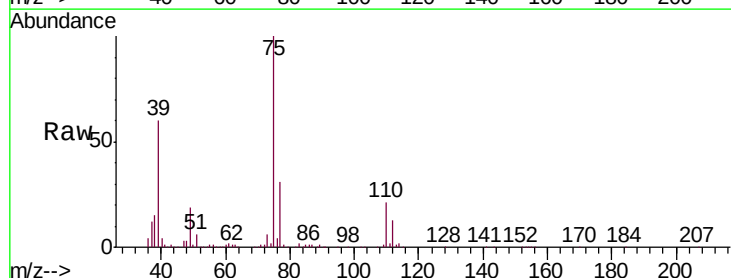
Tgt Ion: 75 Resp: 258053

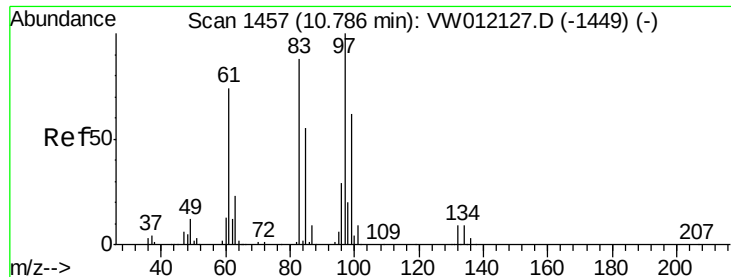
Ion Ratio Lower Upper

75 100

77 31.2 25.1 37.7

39 60.0 48.3 72.5

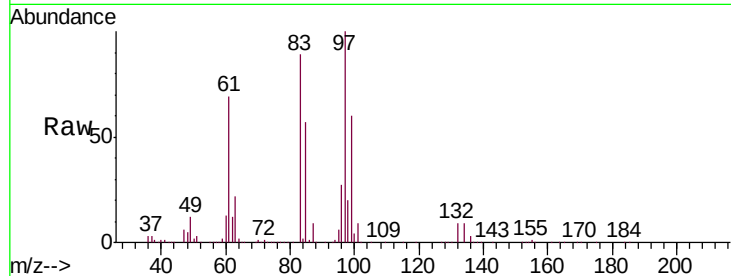




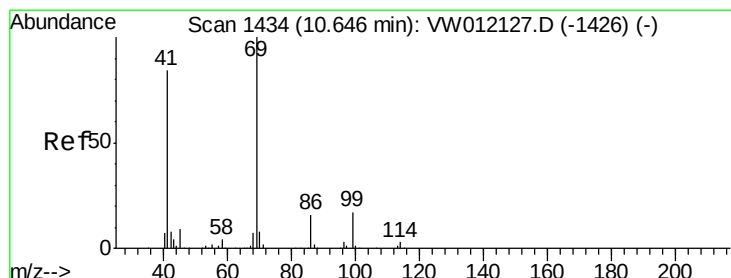
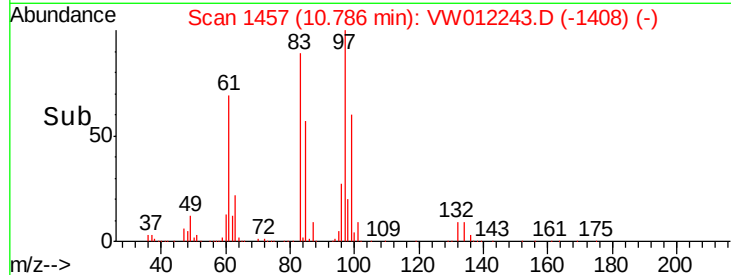
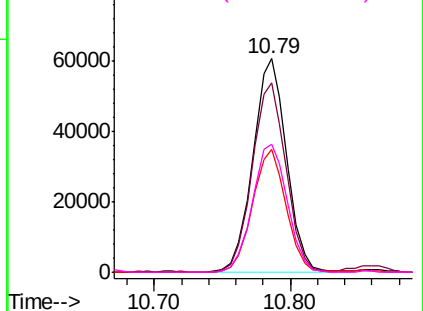
#55  
 1,1,2-Trichloroethane  
 Concen: 51.234 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 105142 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 88.5  | 70.8  | 106.2  |
| 85       | 57.3  | 43.8  | 65.8   |
| 99       | 59.8  | 49.8  | 74.6   |

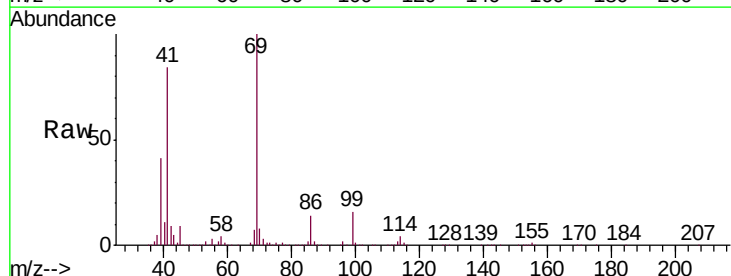


Abundance Ion 96.90 (96.60 to 97.60): VW  
 Ion 82.90 (82.60 to 83.60): VW  
 Ion 84.90 (84.60 to 85.60): VW  
 Ion 98.90 (98.60 to 99.60): VW

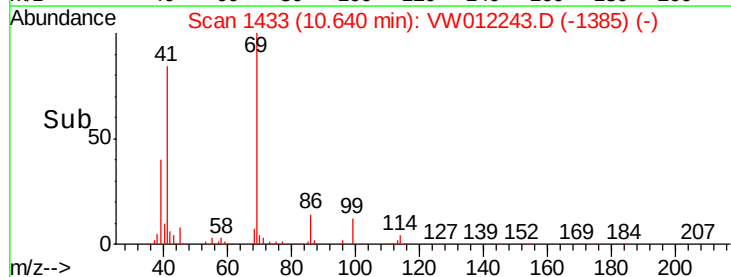
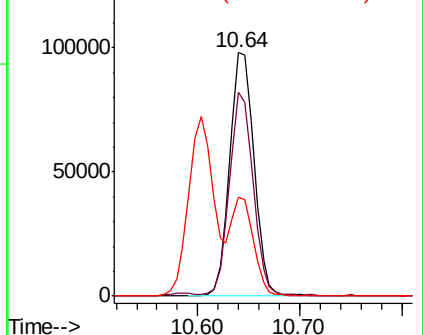


#56  
 Ethyl methacrylate  
 Concen: 53.959 ug/l  
 RT: 10.64 min Scan# 1433  
 Delta R.T. -0.01 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

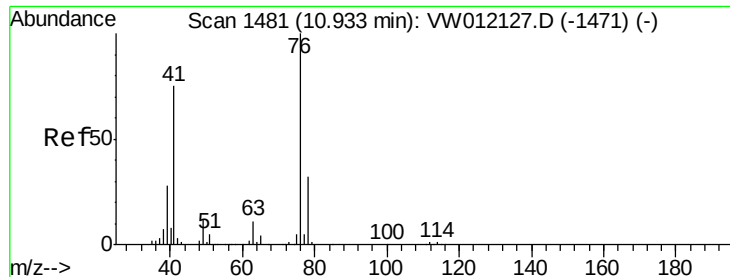
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 161167 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 81.0  | 66.5  | 99.7   |
| 39       | 35.7  | 31.0  | 46.4   |



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



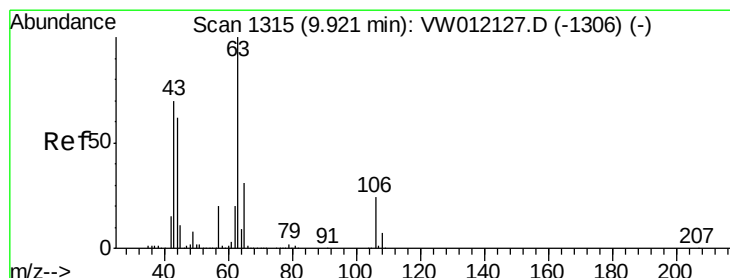
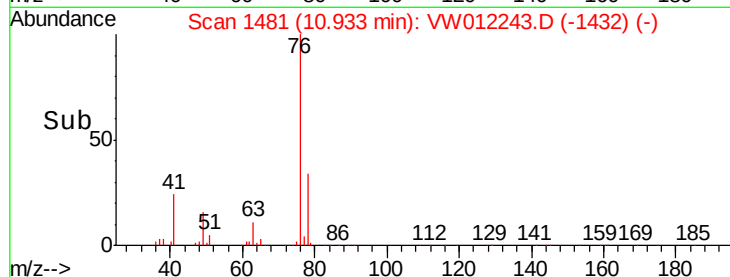
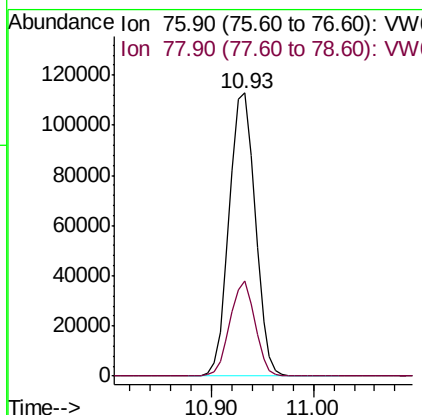
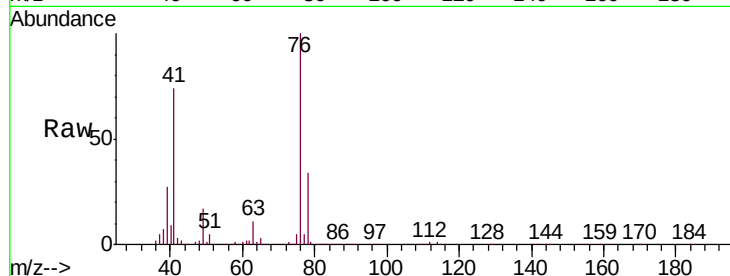




#57  
 1,3-Dichloropropane  
 Concen: 51.690 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

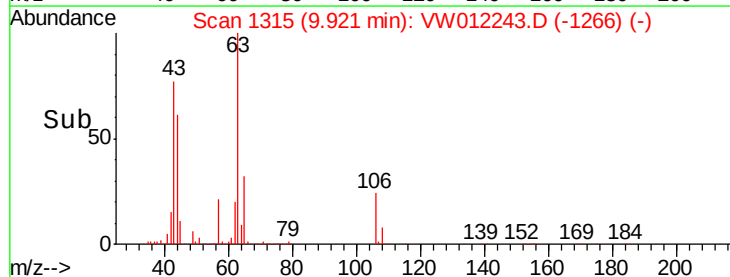
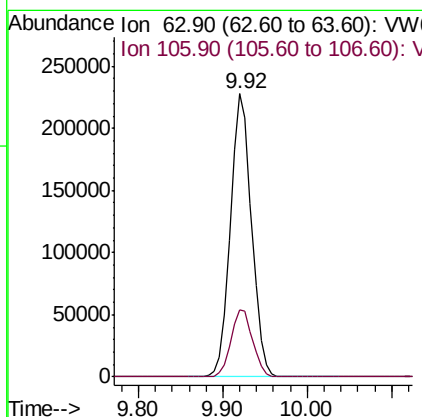
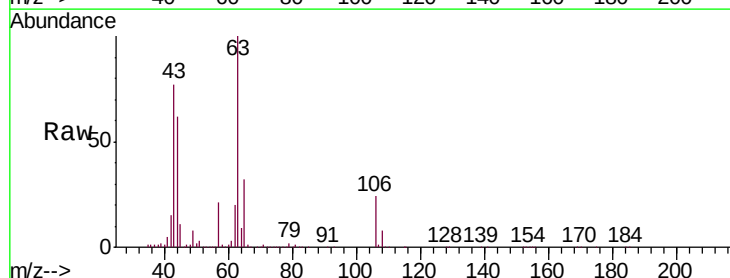
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

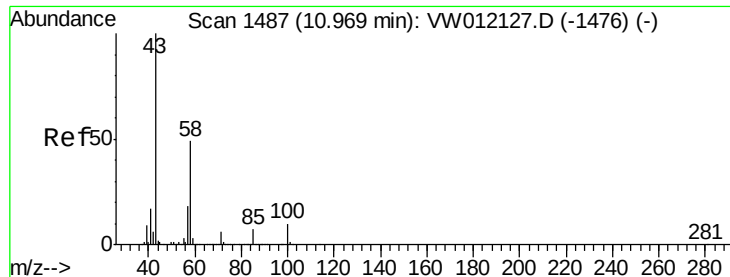
Tot Ion: 76 Resp: 200463  
 Ion Ratio Lower Upper  
 76 100  
 78 32.2 25.8 38.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 252.467 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Tgt Ion: 63 Resp: 387007  
 Ion Ratio Lower Upper  
 63 100  
 106 24.2 19.8 29.8

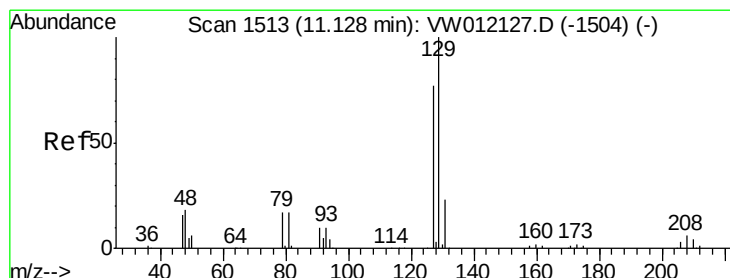
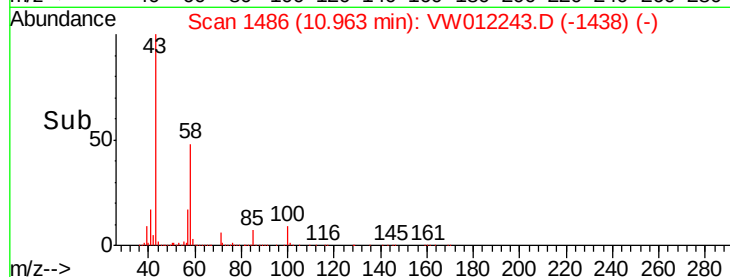
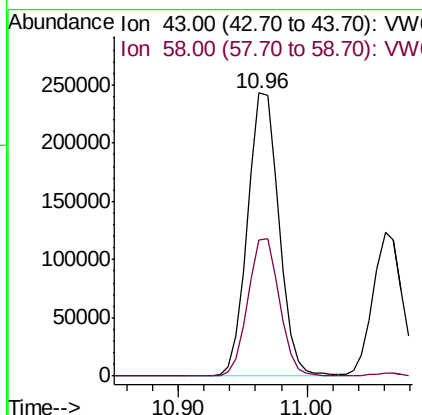
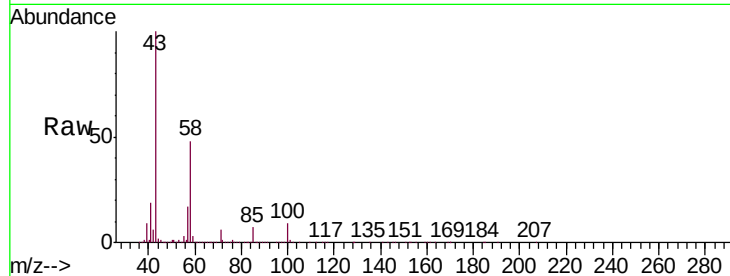




#59  
2-Hexanone  
Concen: 251.290 ug/l  
RT: 10.96 min Scan# 1486  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

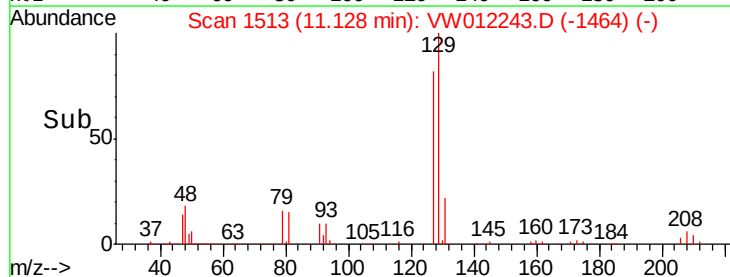
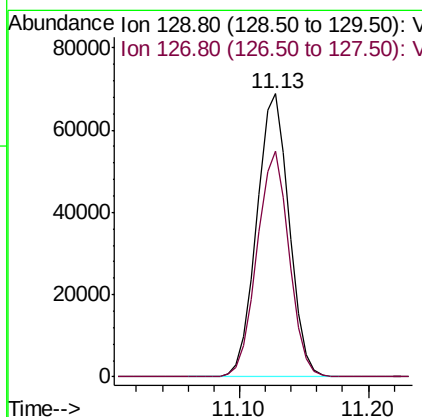
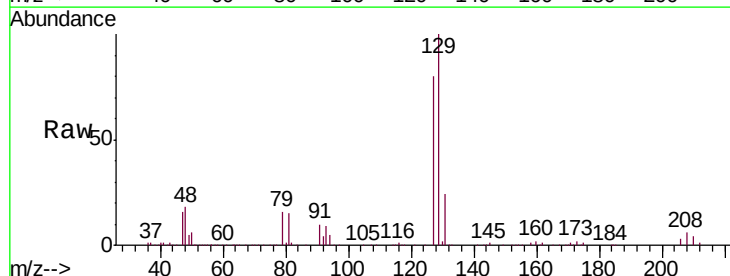
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

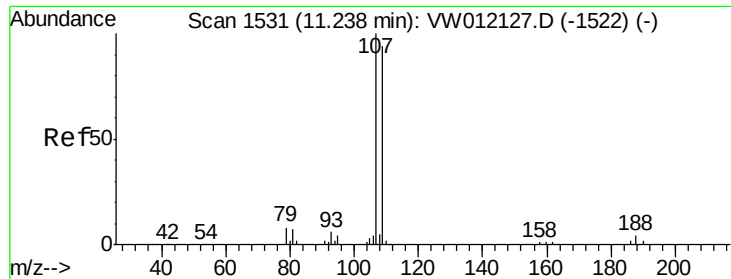
Tot Ion: 43 Resp: 407218  
Ion Ratio Lower Upper  
43 100  
58 49.1 24.3 72.9



#60  
Dibromochloromethane  
Concen: 52.050 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion: 129 Resp: 118977  
Ion Ratio Lower Upper  
129 100  
127 78.9 38.6 115.8

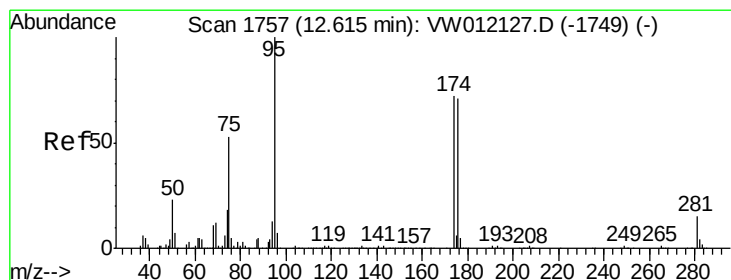
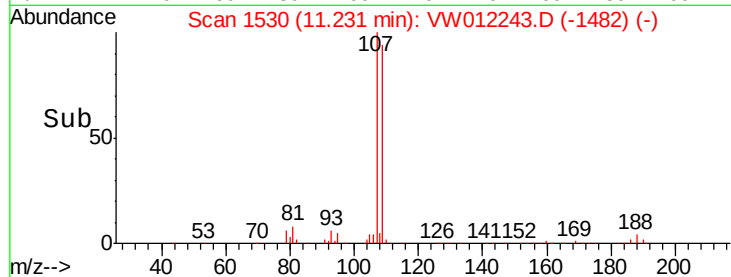
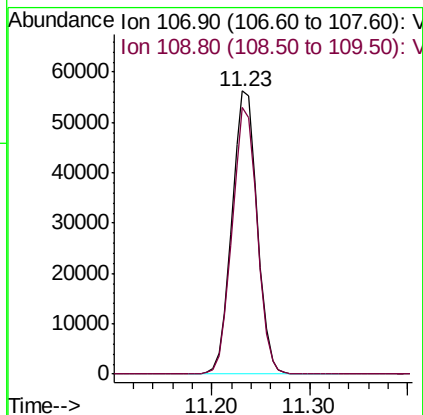
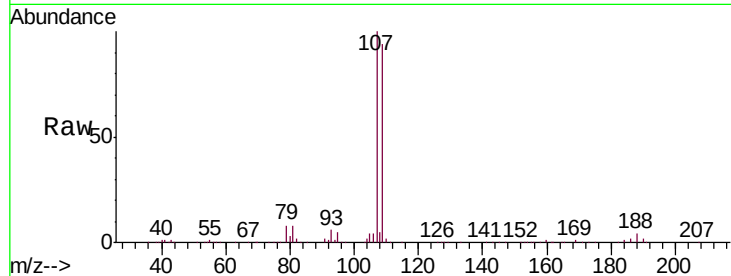




#61  
 1,2-Dibromoethane  
 Concen: 52.744 ug/l  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.01 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

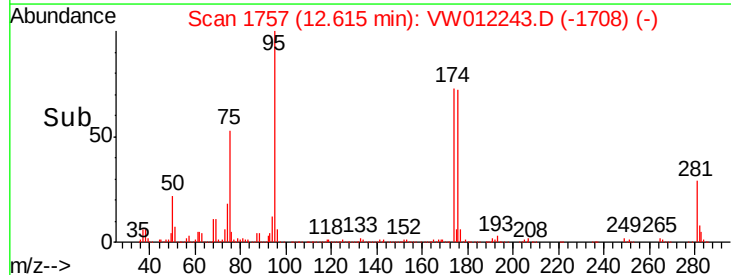
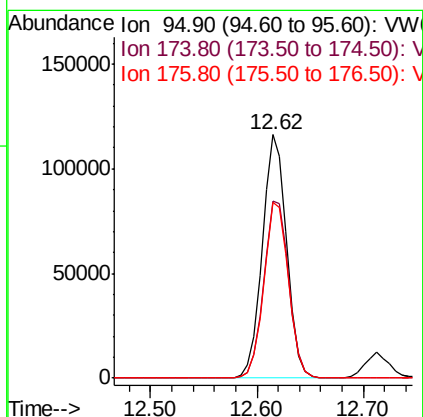
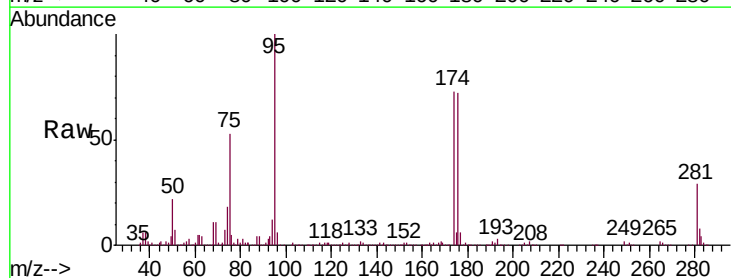
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

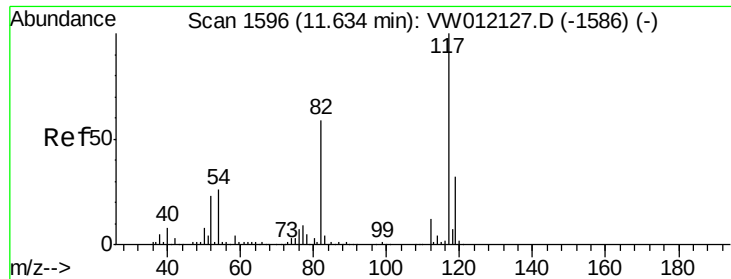
Tot Ion:107 Resp: 100842  
 Ion Ratio Lower Upper  
 107 100  
 109 93.6 75.4 113.2



#62  
 4-Bromofluorobenzene  
 Concen: 50.511 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Tgt Ion: 95 Resp: 184990  
 Ion Ratio Lower Upper  
 95 100  
 174 75.1 0.0 150.8  
 176 73.8 0.0 148.6

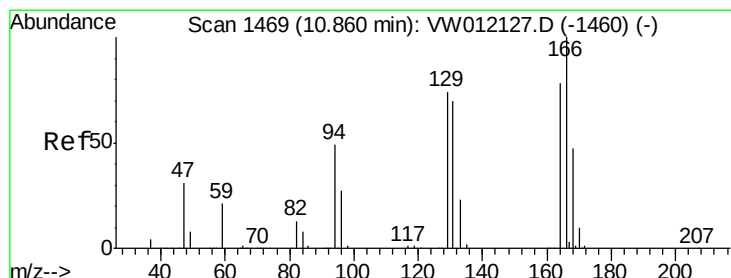
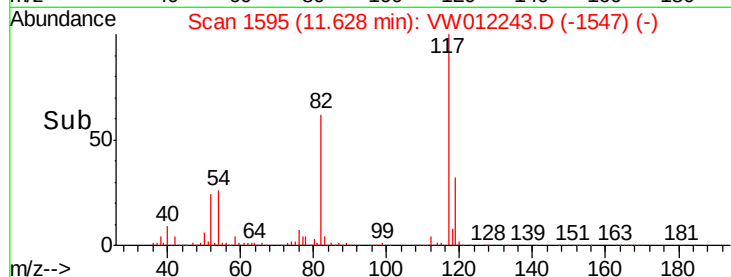
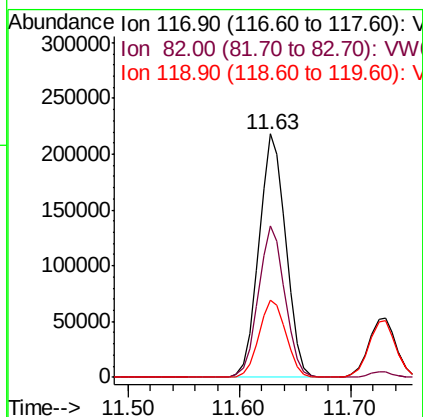
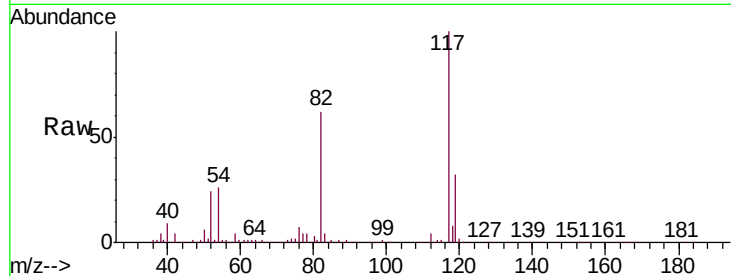




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

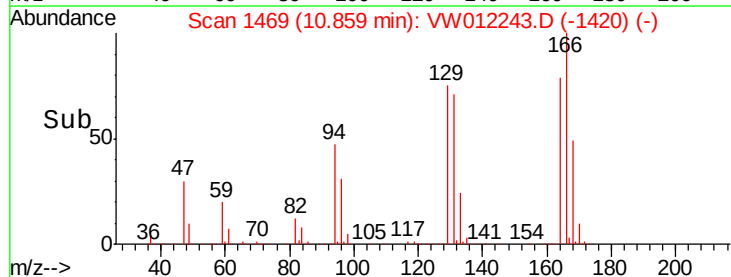
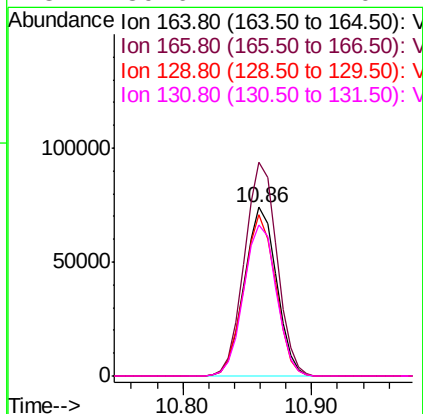
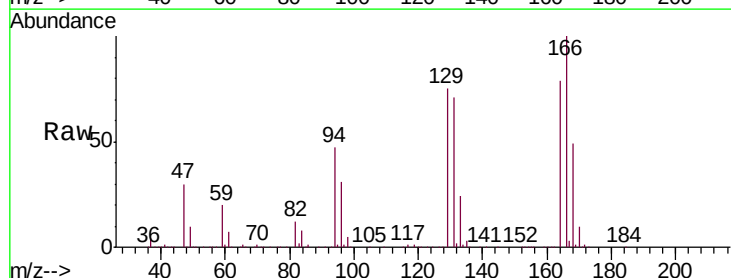
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

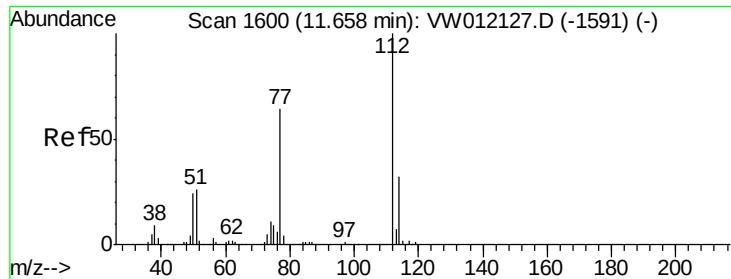
Tot Ion:117 Resp: 366721  
Ion Ratio Lower Upper  
117 100  
82 62.2 47.4 71.2  
119 31.8 25.4 38.2



#64  
Tetrachloroethene  
Concen: 53.567 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion:164 Resp: 127359  
Ion Ratio Lower Upper  
164 100  
166 126.4 102.4 153.6  
129 95.4 75.8 113.6  
131 89.6 71.4 107.2

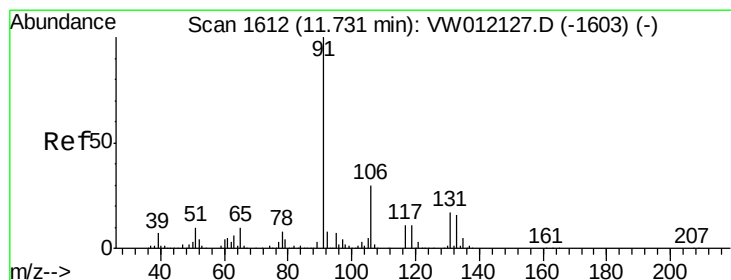
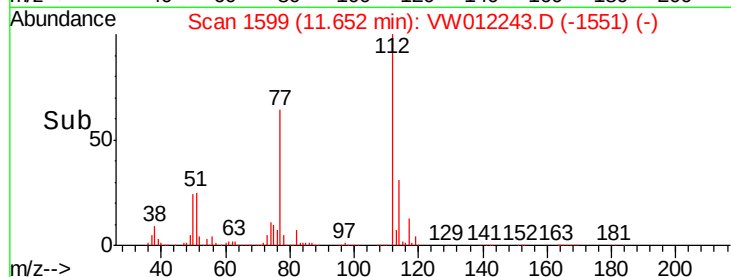
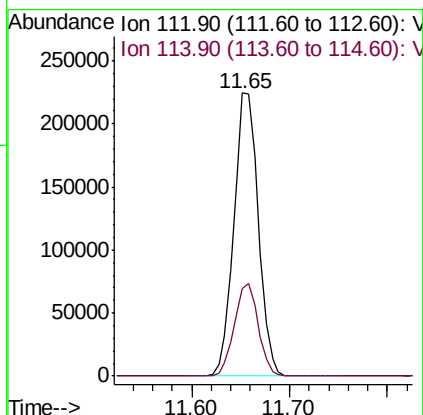
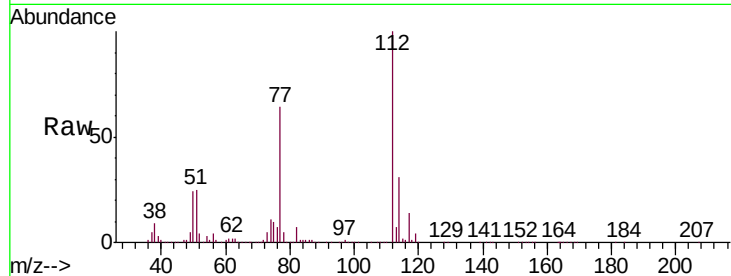




#65  
Chlorobenzene  
Concen: 53.961 ug/l  
RT: 11.65 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

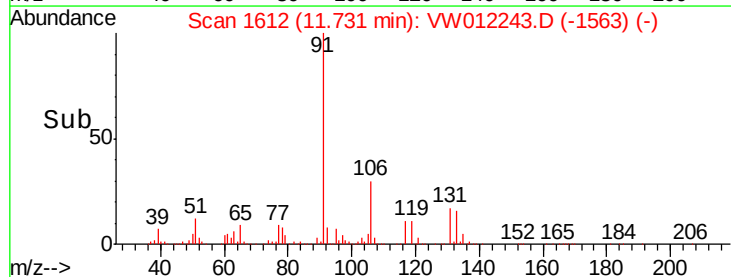
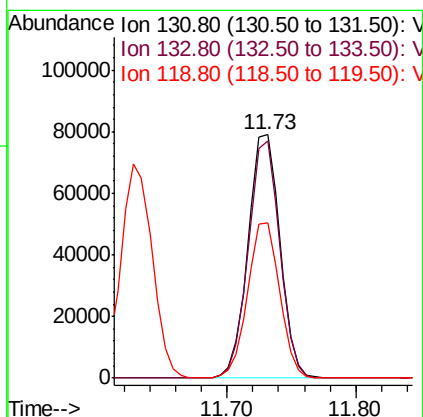
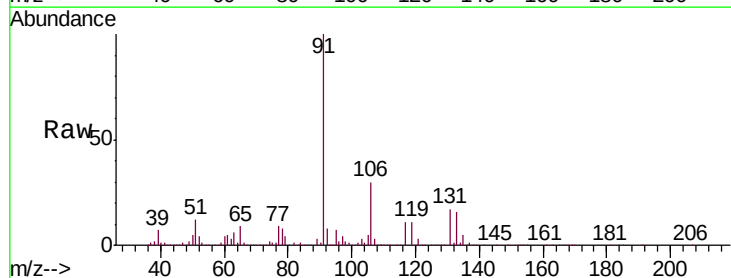
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

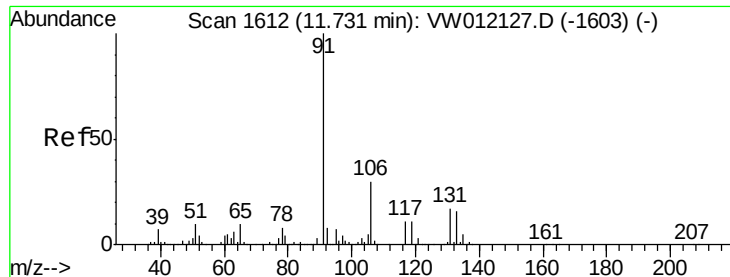
Tot Ion:112 Resp: 389652  
Ion Ratio Lower Upper  
112 100  
114 31.1 25.8 38.6



#66  
1,1,1,2-Tetrachloroethane  
Concen: 53.592 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion:131 Resp: 135005  
Ion Ratio Lower Upper  
131 100  
133 95.9 47.1 141.3  
119 64.0 31.8 95.3

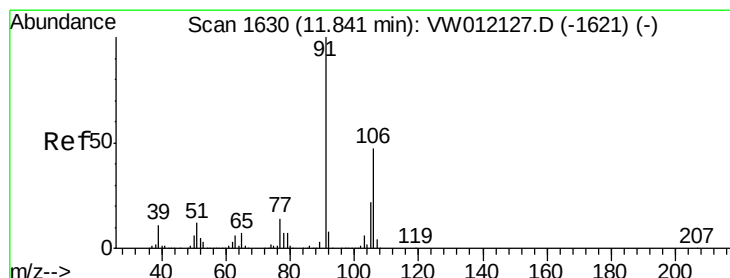
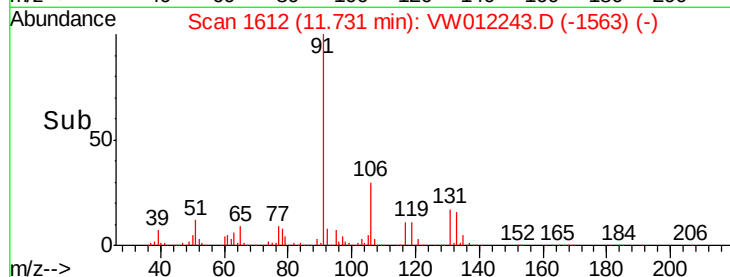
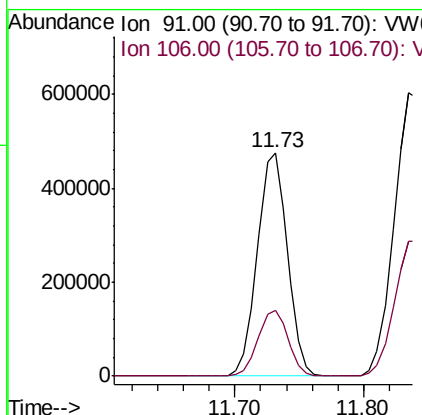
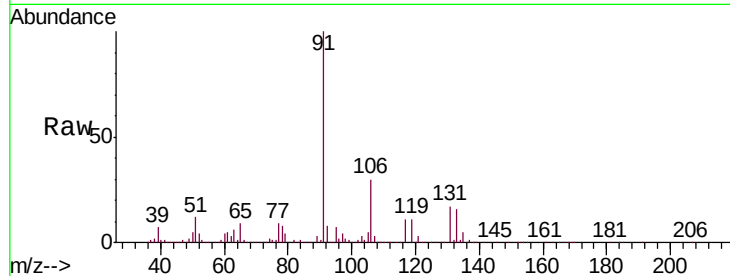




#67  
Ethyl Benzene  
Concen: 55.062 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

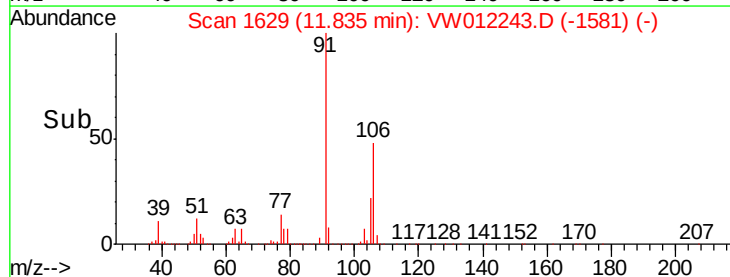
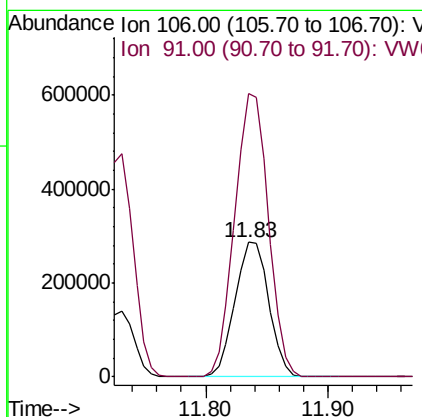
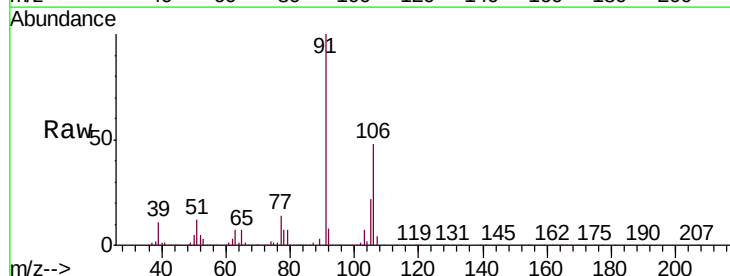
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

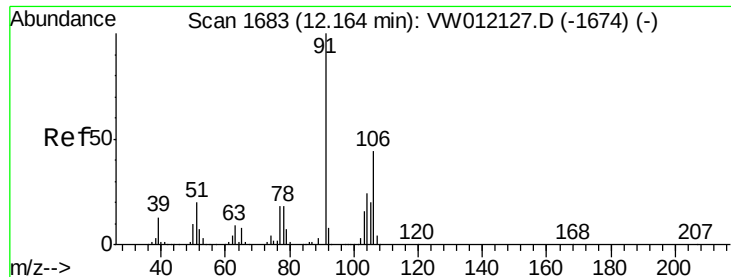
Tot Ion: 91 Resp: 765925  
Ion Ratio Lower Upper  
91 100  
106 29.5 24.3 36.5



#68  
m/p-Xylenes  
Concen: 110.078 ug/l  
RT: 11.83 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion: 106 Resp: 551556  
Ion Ratio Lower Upper  
106 100  
91 208.8 169.5 254.3

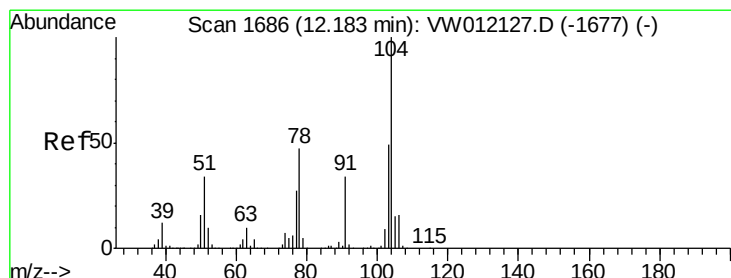
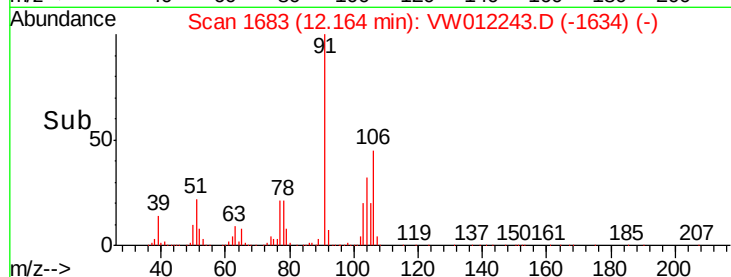
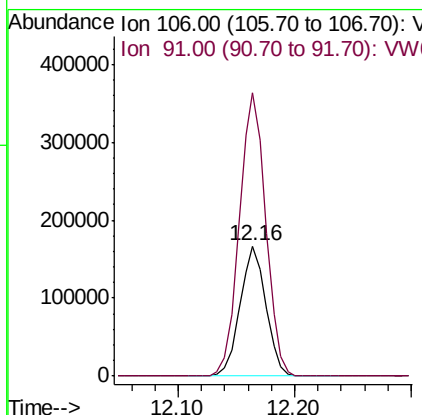
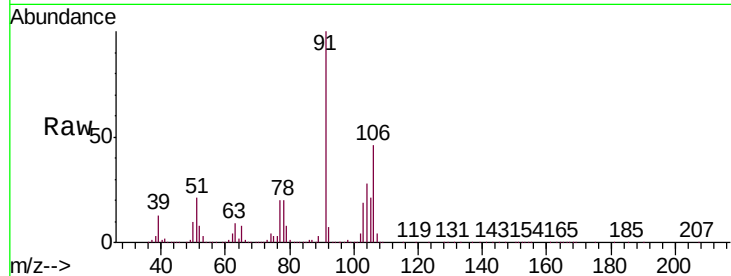




#69  
o-Xylene  
Concen: 55.685 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

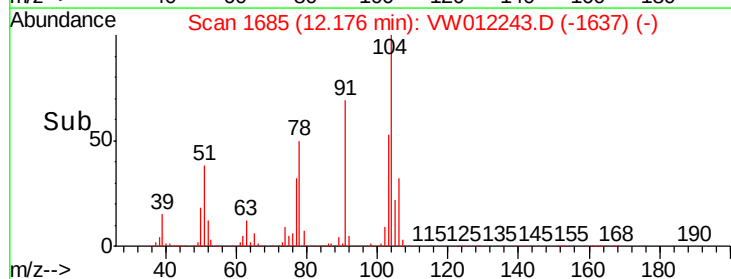
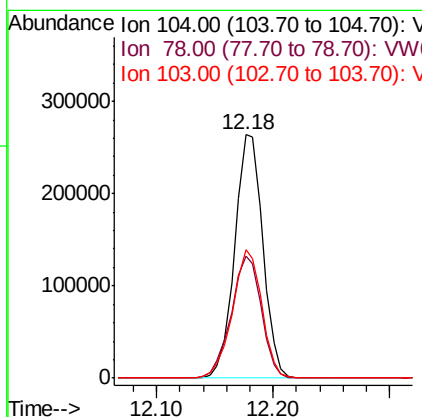
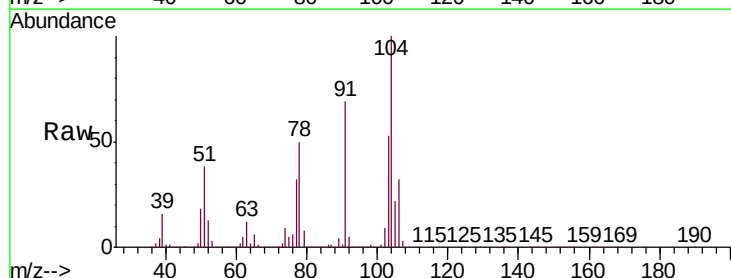
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

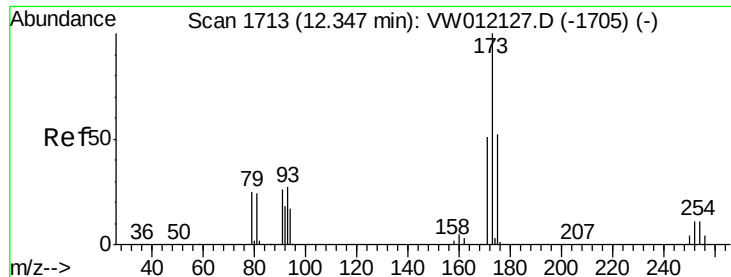
Tot Ion:106 Resp: 258238  
Ion Ratio Lower Upper  
106 100  
91 221.4 111.6 334.6



#70  
Styrene  
Concen: 55.354 ug/l  
RT: 12.18 min Scan# 1685  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion:104 Resp: 444328  
Ion Ratio Lower Upper  
104 100  
78 53.8 43.1 64.7  
103 54.9 43.5 65.3





#71

Bromoform

Concen: 53.162 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampled :

BFB

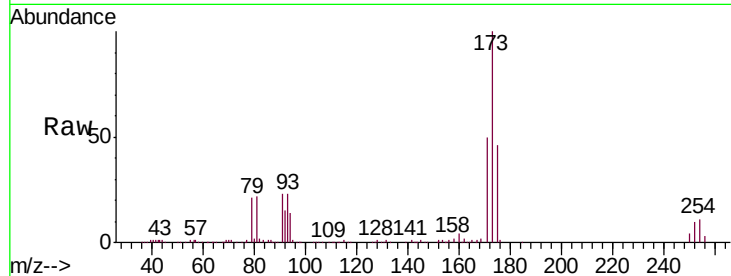
Tot Ion:173 Resp: 66724

Ion Ratio Lower Upper

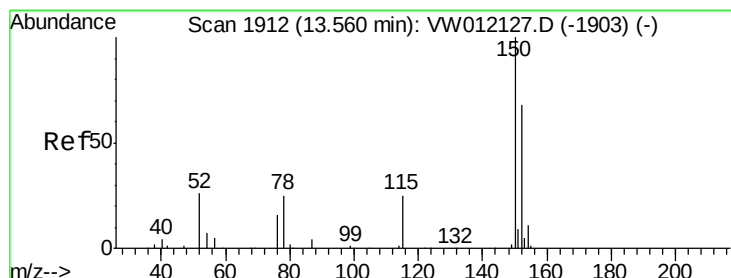
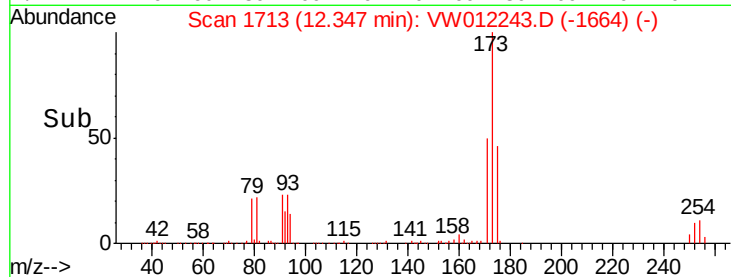
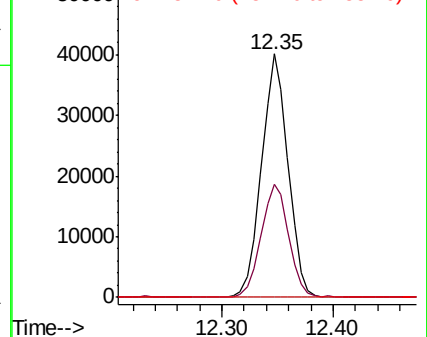
173 100

175 48.4 24.6 74.0

254 0.1 0.2 0.2#



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: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

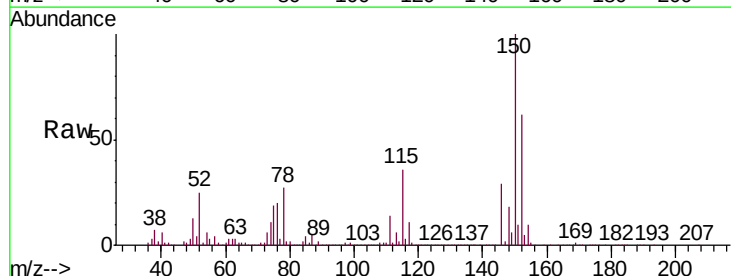
Tgt Ion:152 Resp: 174627

Ion Ratio Lower Upper

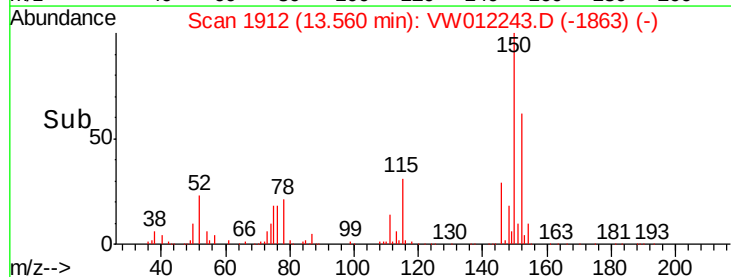
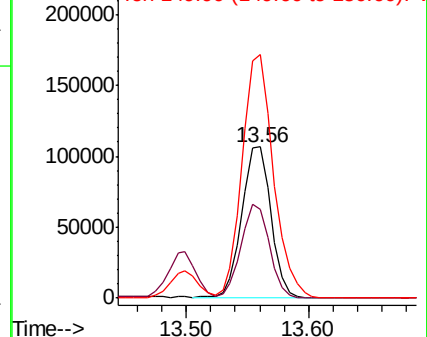
152 100

115 60.2 30.1 90.3

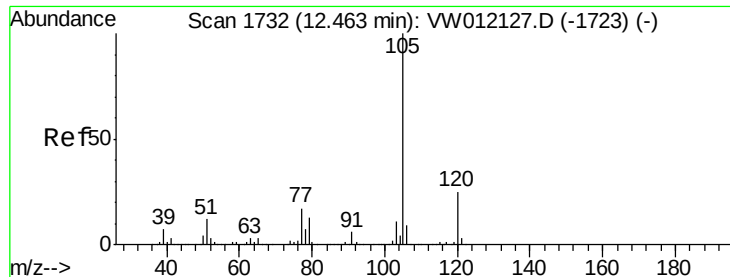
150 174.0 0.0 345.8



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: 55.291 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampled :

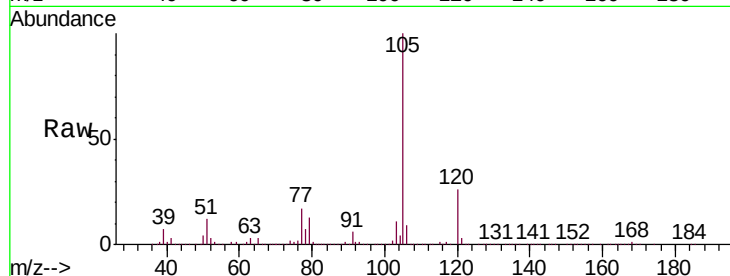
BFB

Tot Ion:105 Resp: 723488

Ion Ratio Lower Upper

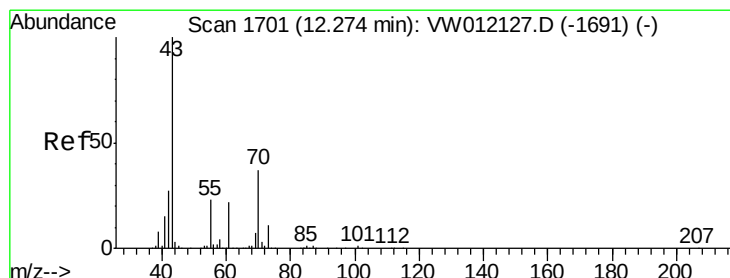
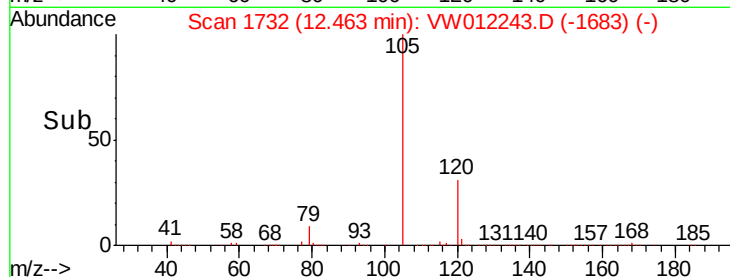
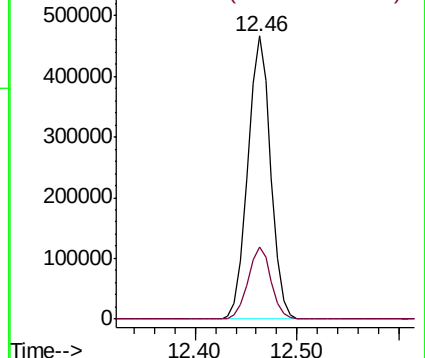
105 100

120 25.6 12.5 37.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 53.890 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Tgt Ion: 43 Resp: 213048

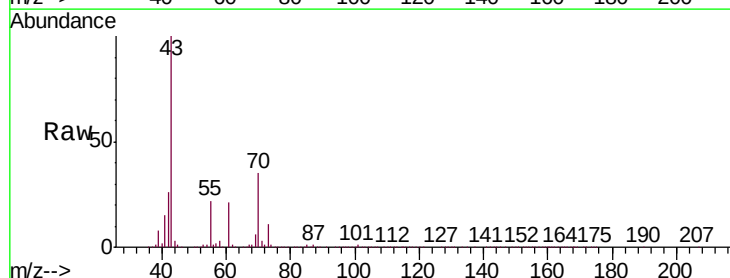
Ion Ratio Lower Upper

43 100

70 36.1 28.6 43.0

55 22.4 17.8 26.6

61 22.3 17.3 25.9

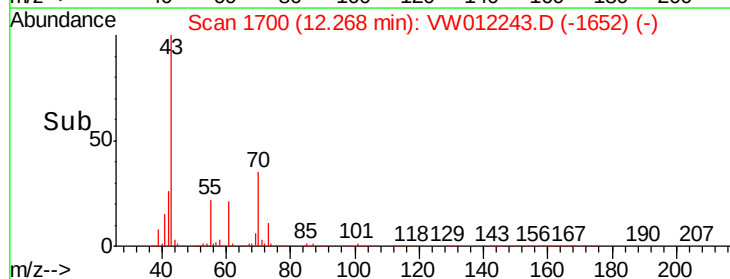
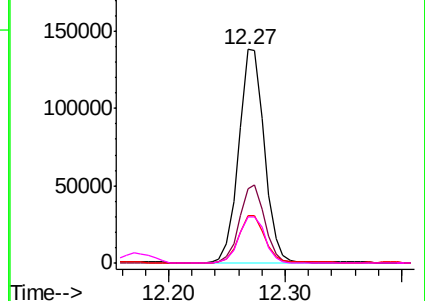


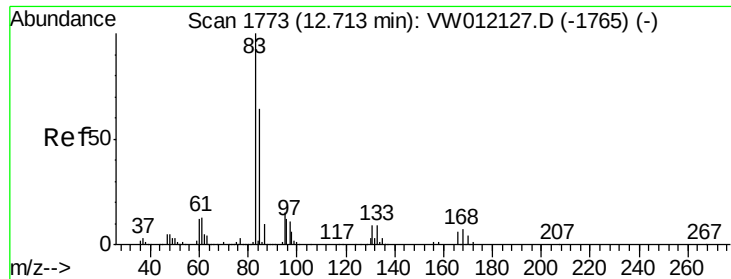
Abundance Ion 43.00 (42.70 to 43.70): VV

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: 50.850 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

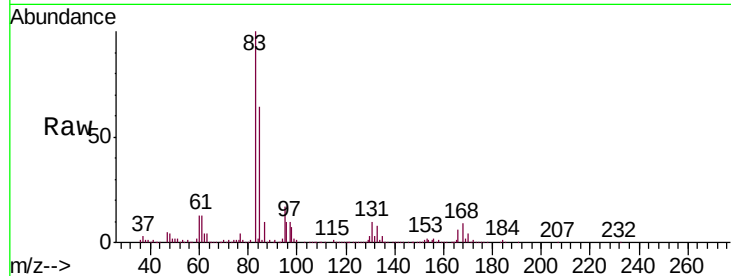
Tot Ion: 83 Resp: 121982

Ion Ratio Lower Upper

83 100

131 10.2 4.9 14.7

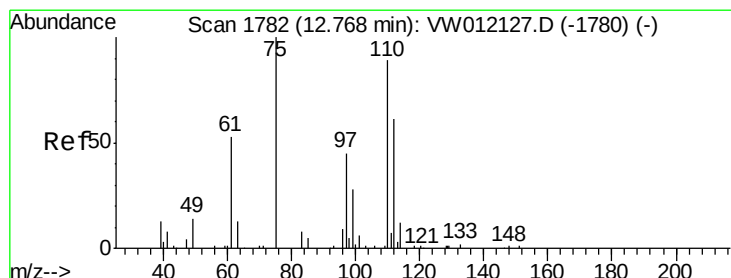
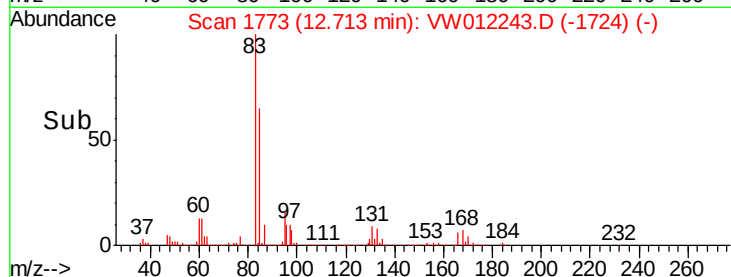
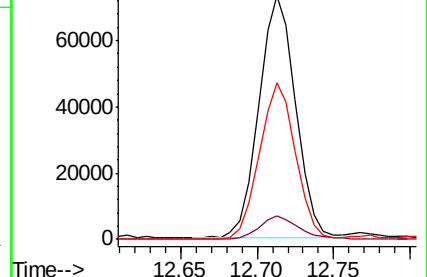
85 63.5 31.9 95.7



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: 97.185 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW012243.D

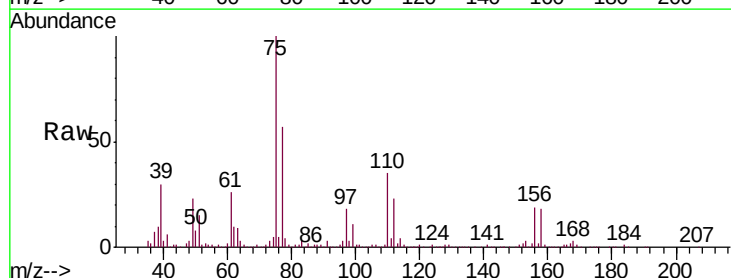
Acq: 28 Aug 2019 10:13

Tgt Ion: 75 Resp: 165287

Ion Ratio Lower Upper

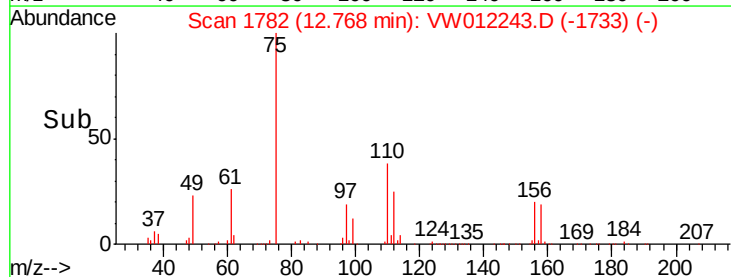
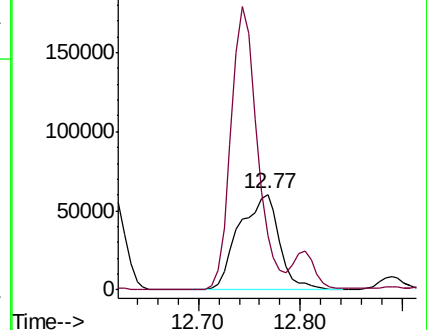
75 100

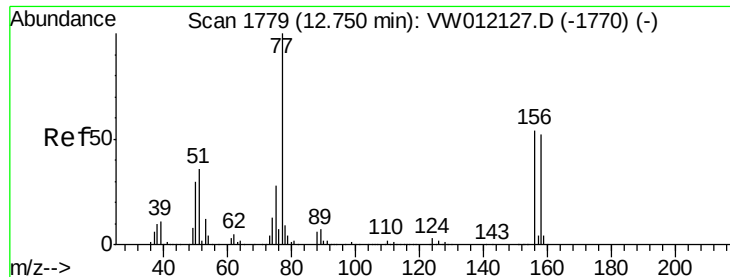
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 54.346 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

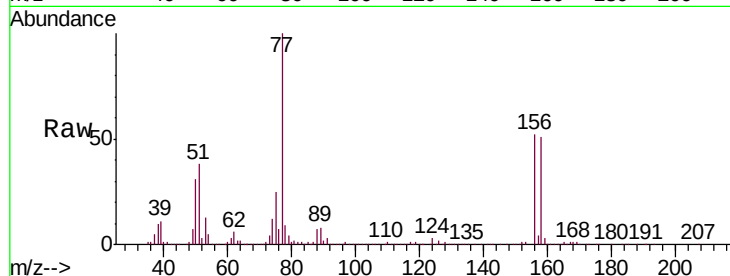
Tot Ion:156 Resp: 153844

Ion Ratio Lower Upper

156 100

77 210.4 107.3 321.8

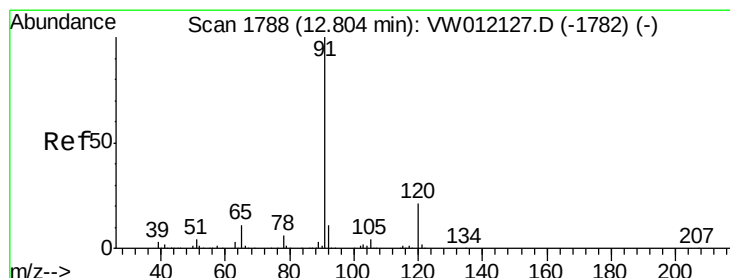
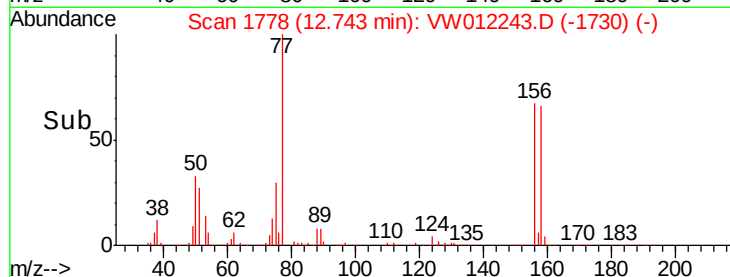
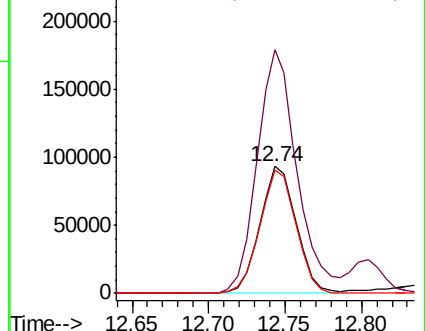
158 97.0 49.0 147.0



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: 55.210 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW012243.D

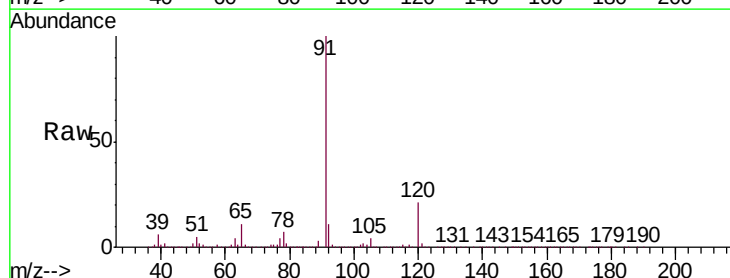
Acq: 28 Aug 2019 10:13

Tgt Ion: 91 Resp: 881932

Ion Ratio Lower Upper

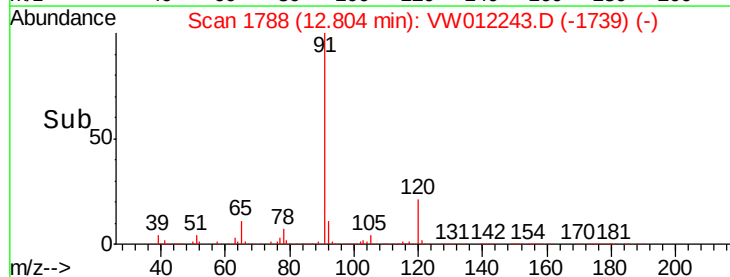
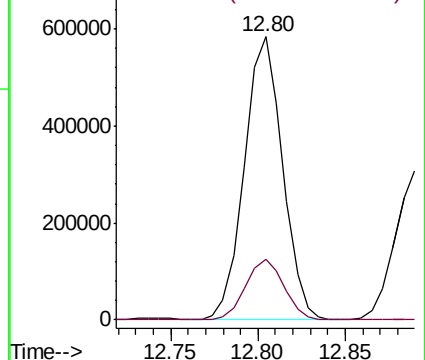
91 100

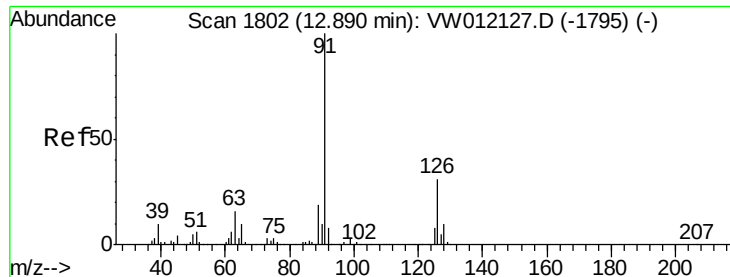
120 21.5 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 54.294 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

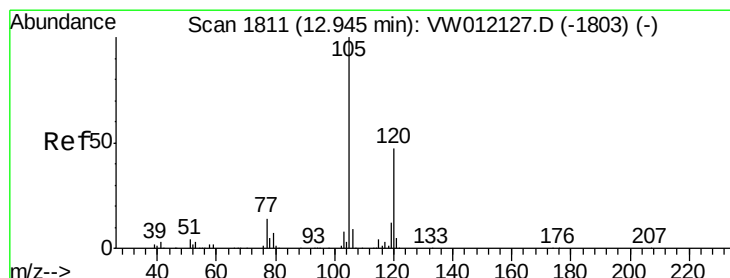
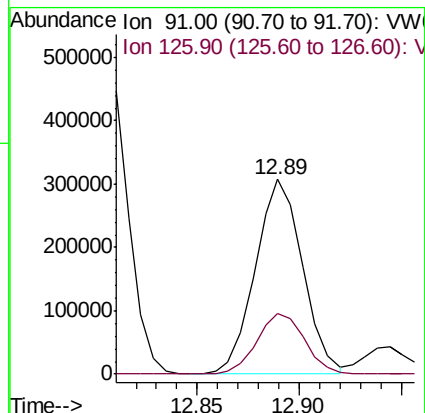
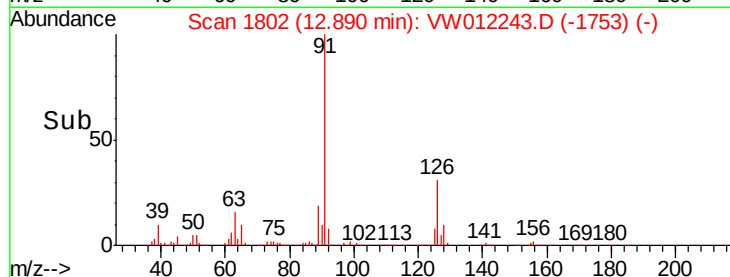
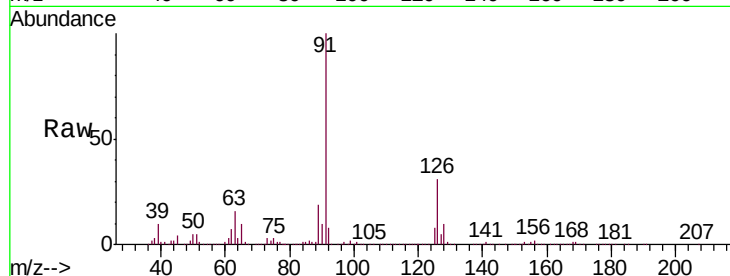
BFB

Tot Ion: 91 Resp: 492407

Ion Ratio Lower Upper

91 100

126 31.8 15.7 47.0



#80

1,3,5-Trimethylbenzene

Concen: 55.601 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW012243.D

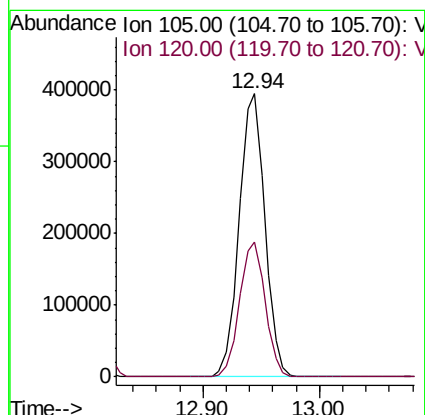
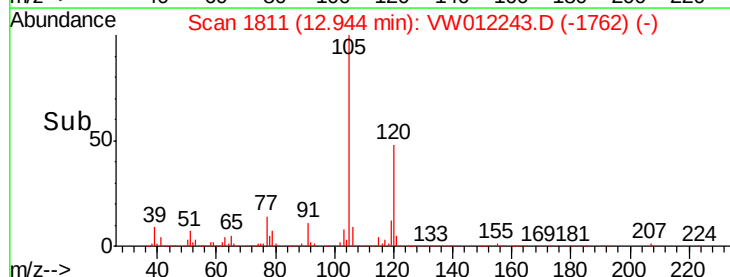
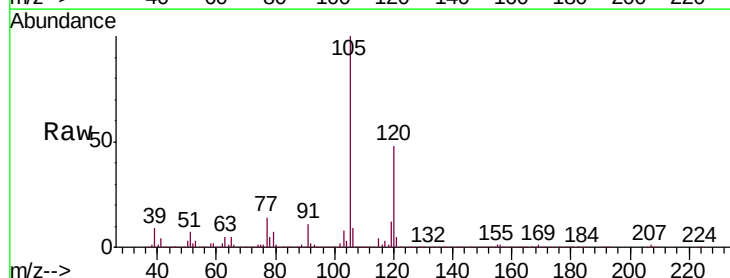
Acq: 28 Aug 2019 10:13

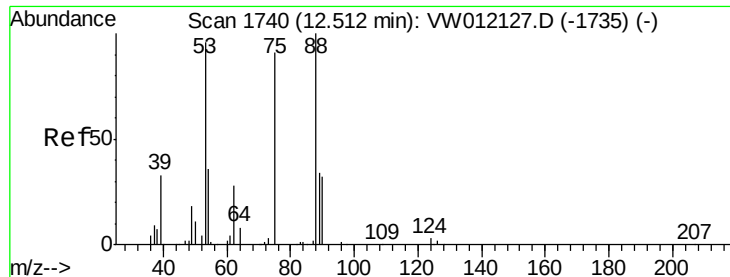
Tgt Ion:105 Resp: 607938

Ion Ratio Lower Upper

105 100

120 47.7 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.408 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampled :

BFB

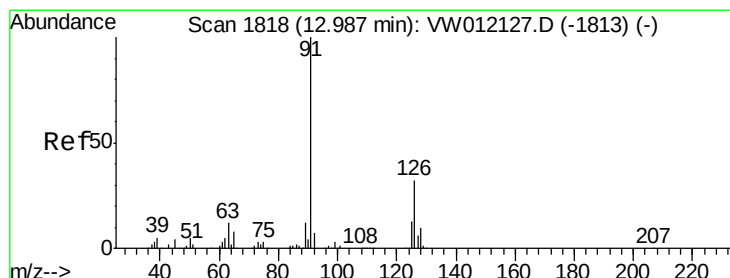
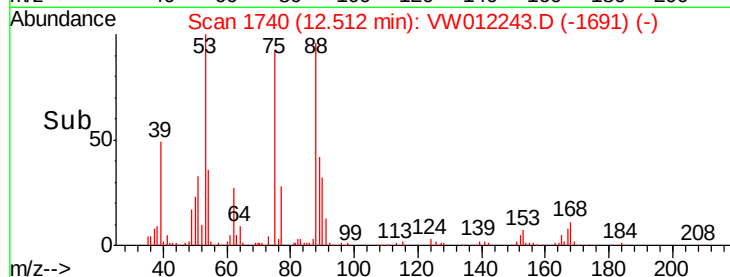
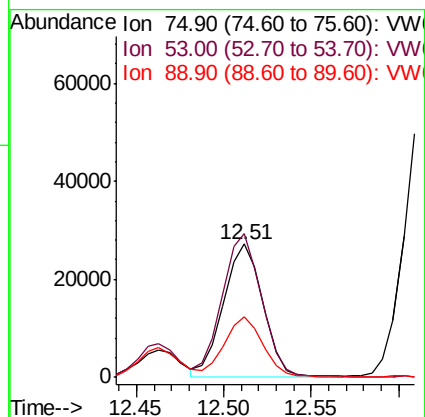
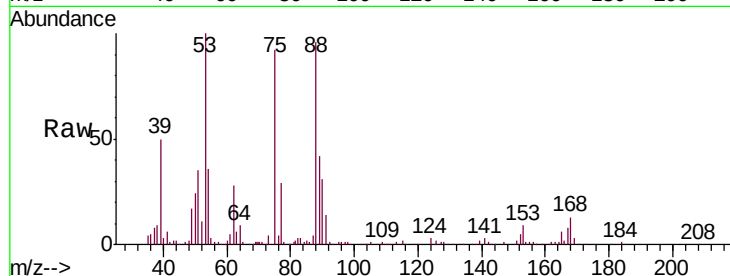
Tot Ion: 75 Resp: 42204

Ion Ratio Lower Upper

75 100

53 107.4 89.4 134.0

89 44.1 34.5 51.7



#82

4-Chlorotoluene

Concen: 54.524 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW012243.D

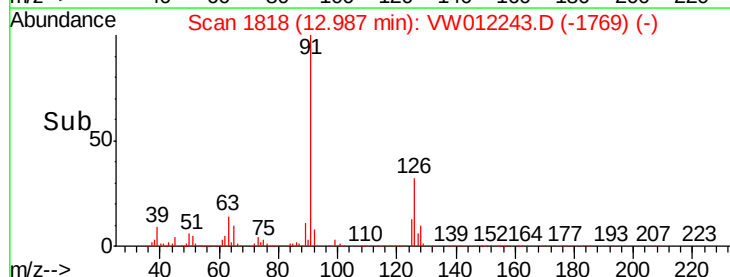
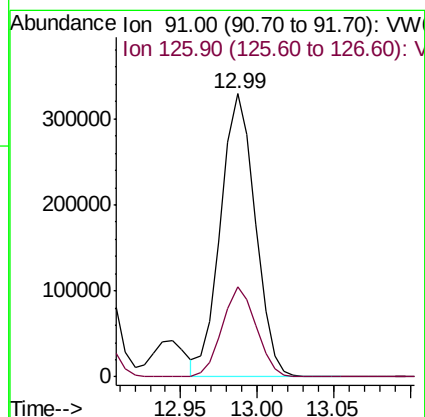
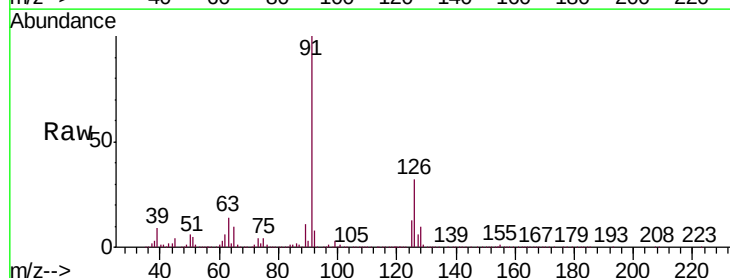
Acq: 28 Aug 2019 10:13

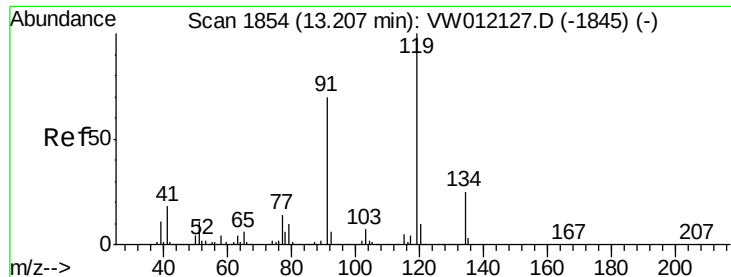
Tgt Ion: 91 Resp: 517767

Ion Ratio Lower Upper

91 100

126 31.2 15.6 46.8

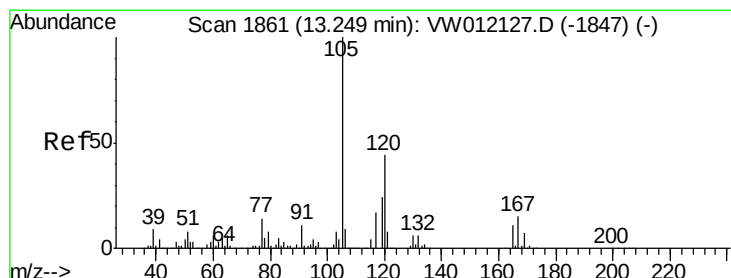
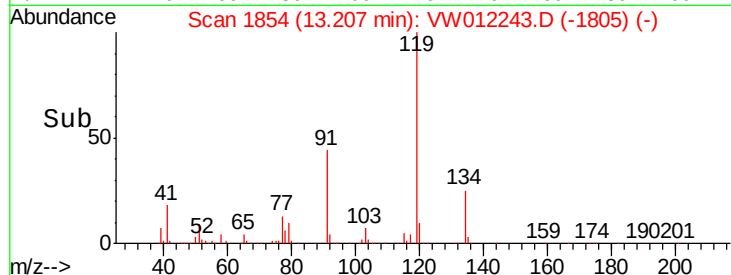
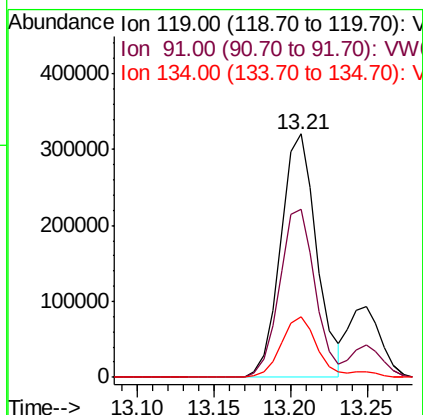
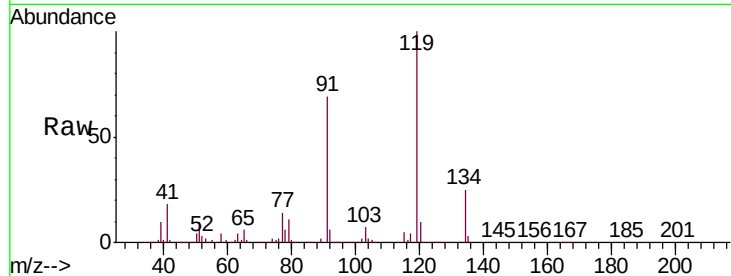




#83  
 tert-Butylbenzene  
 Concen: 56.420 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

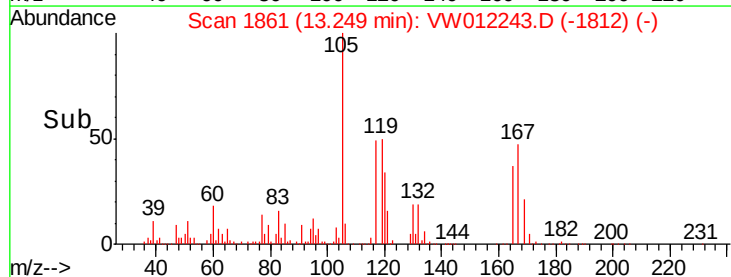
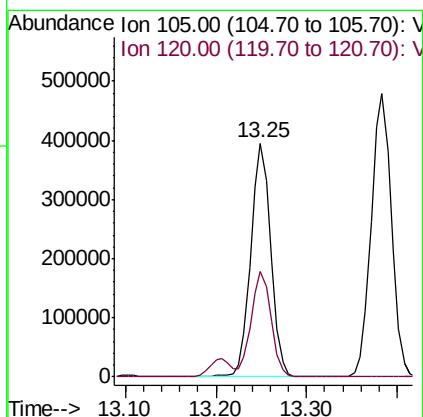
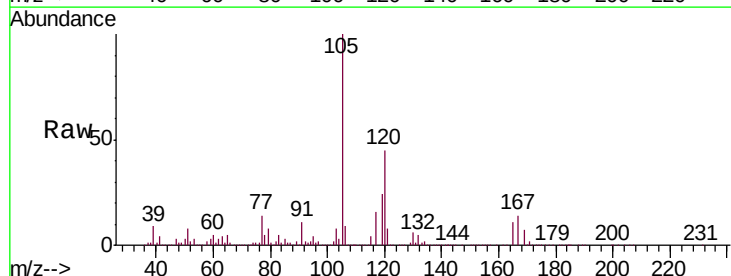
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

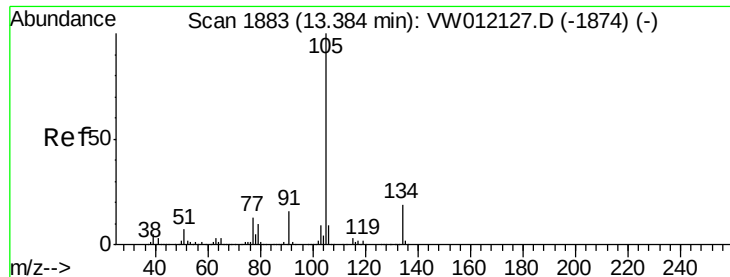
Tot Ion:119 Resp: 522551  
 Ion Ratio Lower Upper  
 119 100  
 91 68.5 34.8 104.3  
 134 24.6 13.3 39.8



#84  
 1,2,4-Trimethylbenzene  
 Concen: 54.961 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Tgt Ion:105 Resp: 603654  
 Ion Ratio Lower Upper  
 105 100  
 120 44.3 21.9 65.7

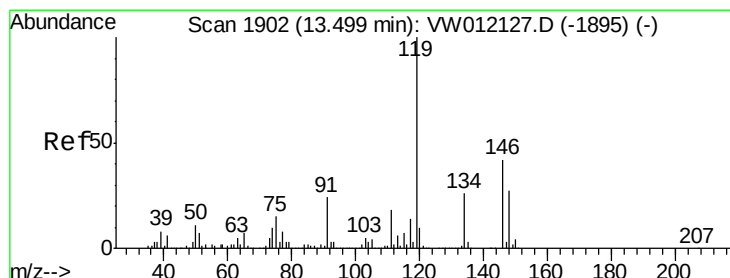
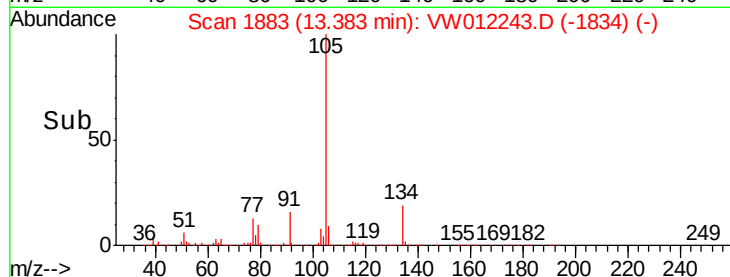
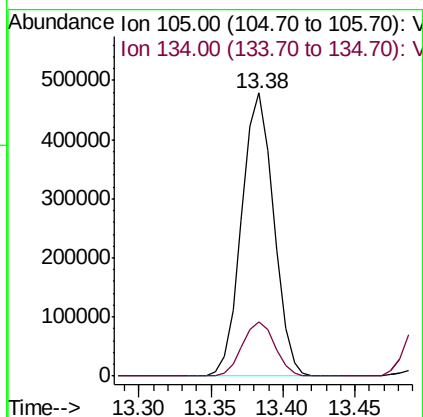
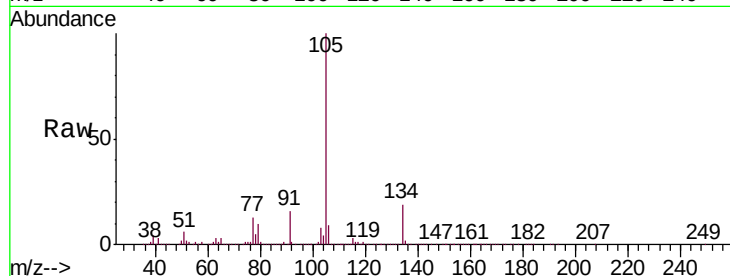




#85  
 sec-Butylbenzene  
 Concen: 55.717 ug/l  
 RT: 13.38 min Scan# 1883  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

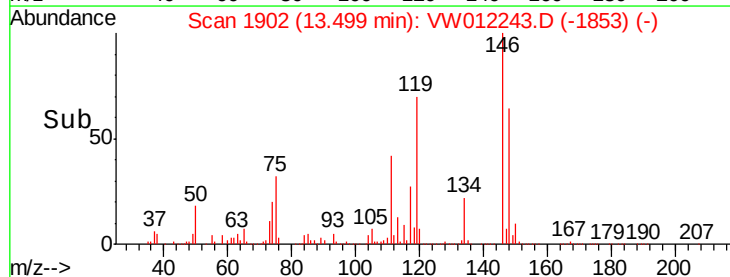
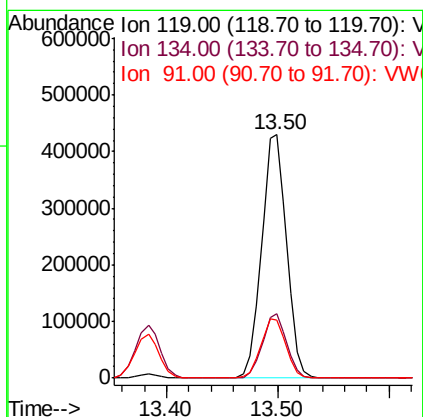
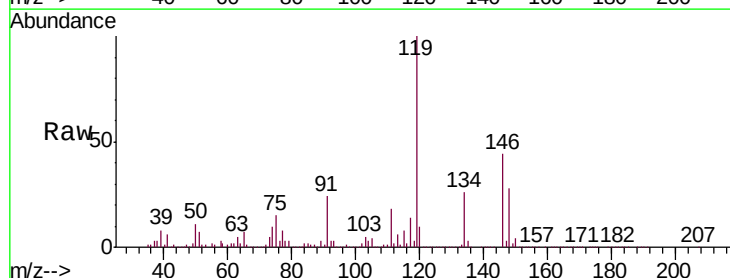
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

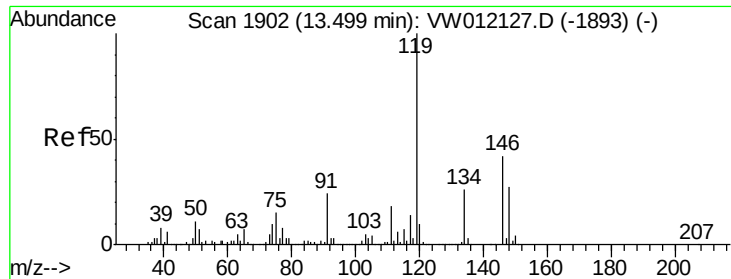
Tot Ion:105 Resp: 739322  
 Ion Ratio Lower Upper  
 105 100  
 134 19.5 9.8 29.4



#86  
 p-Isopropyltoluene  
 Concen: 56.635 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Tgt Ion:119 Resp: 671138  
 Ion Ratio Lower Upper  
 119 100  
 134 25.5 12.8 38.3  
 91 24.1 12.3 36.9

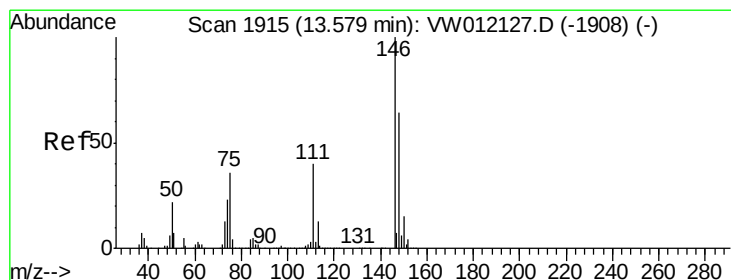
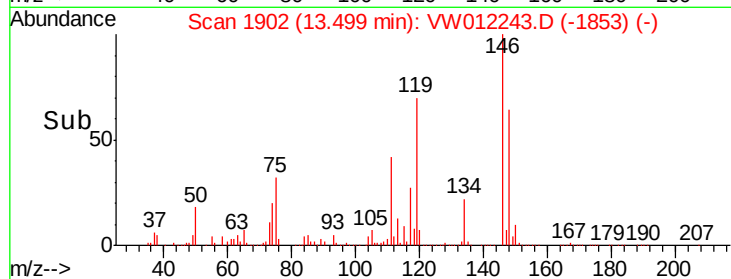
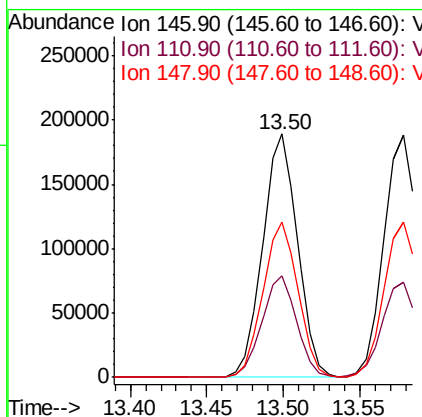
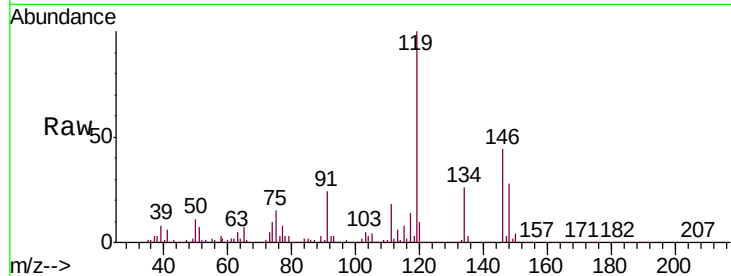




#87  
 1,3-Dichlorobenzene  
 Concen: 54.195 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

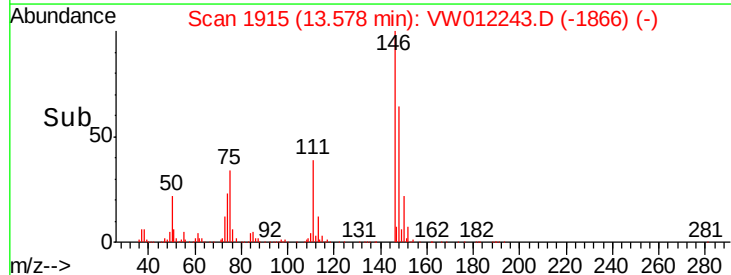
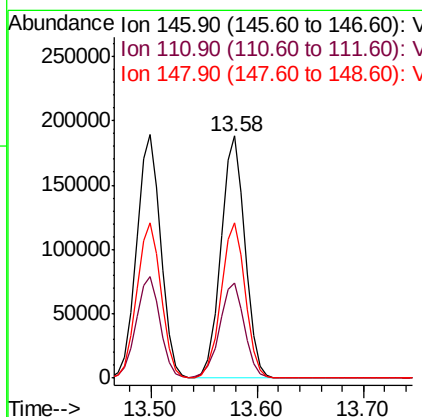
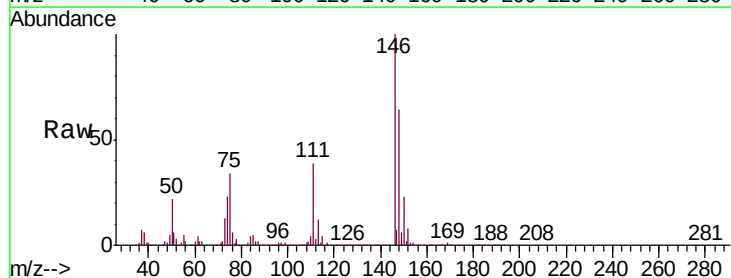
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

Tot Ion:146 Resp: 300075  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 20.9 62.7  
 148 64.3 32.2 96.6

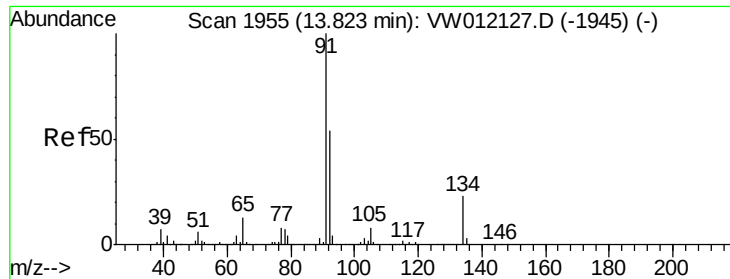


#88  
 1,4-Dichlorobenzene  
 Concen: 53.840 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Tgt Ion:146 Resp: 296004  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 20.0 60.0  
 148 64.4 32.1 96.3







#89

n-Butylbenzene

Concen: 57.399 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW012243.D

Acq: 28 Aug 2019 10:13

Instrument :

MSVOA\_W

ClientSampleId :

BFB

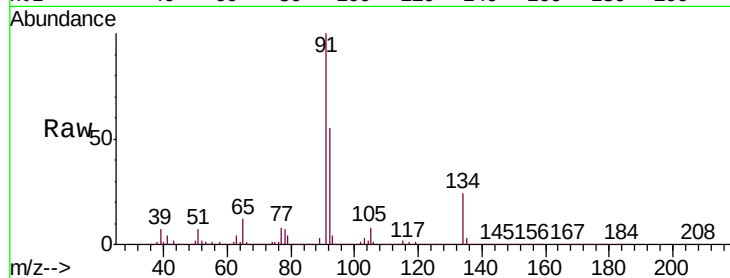
Tot Ion: 91 Resp: 676411

Ion Ratio Lower Upper

91 100

92 54.2 27.1 81.2

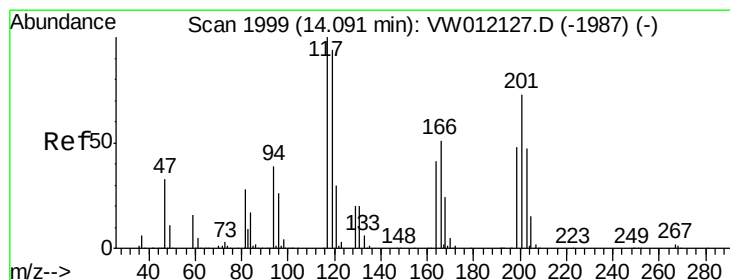
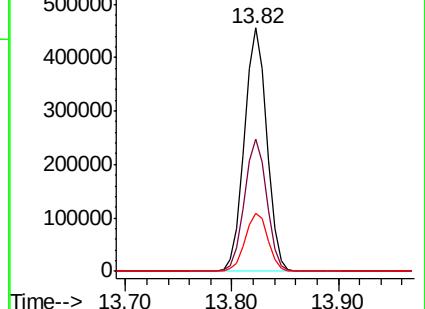
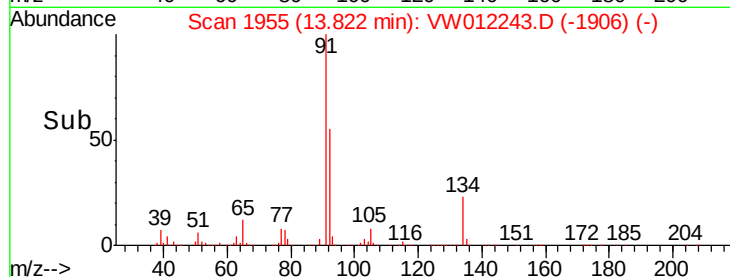
134 24.3 12.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 55.872 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VW012243.D

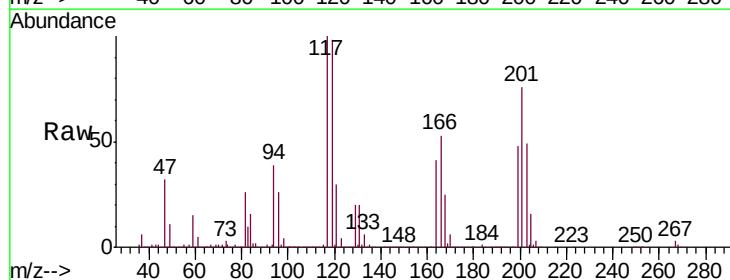
Acq: 28 Aug 2019 10:13

Tgt Ion: 117 Resp: 116162

Ion Ratio Lower Upper

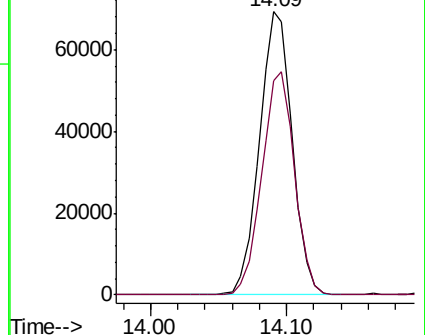
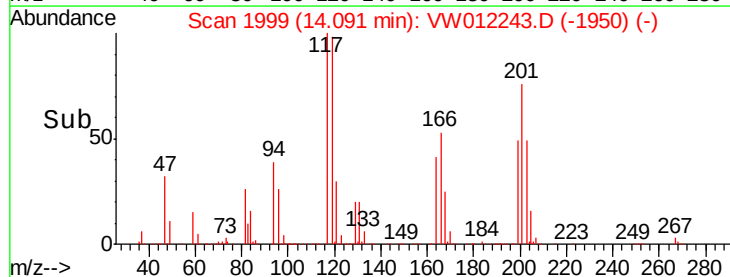
117 100

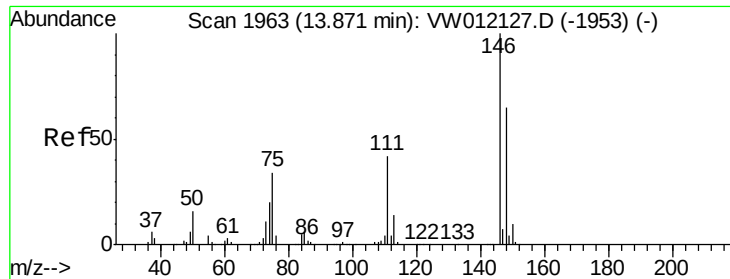
201 79.0 38.6 115.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

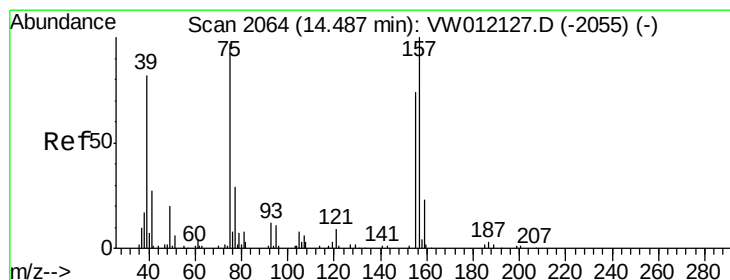
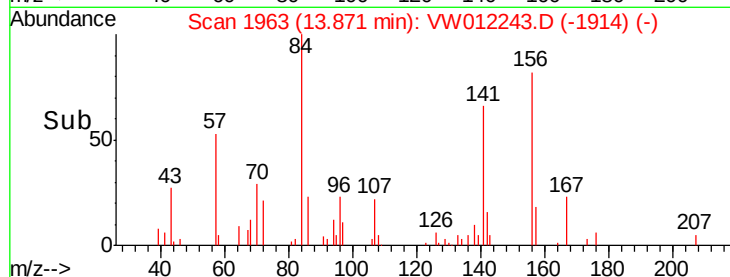
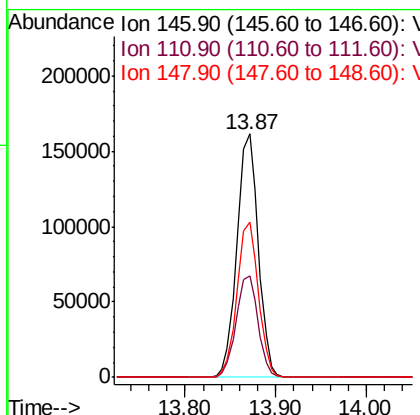
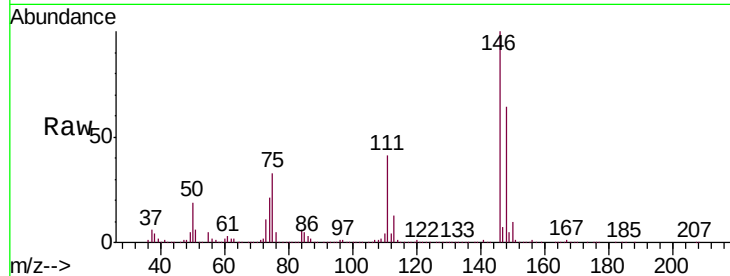




#91  
 1,2-Dichlorobenzene  
 Concen: 54.311 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

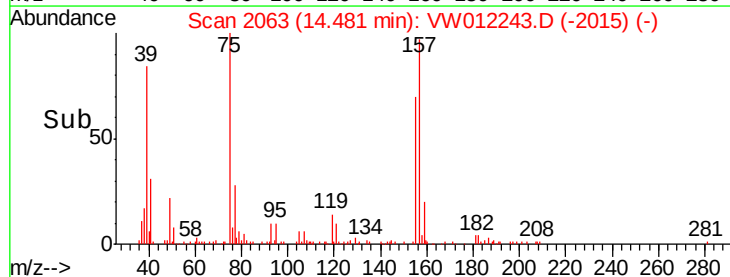
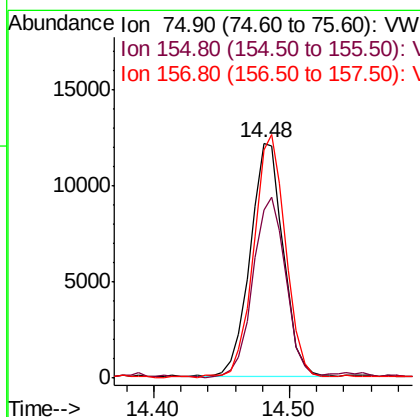
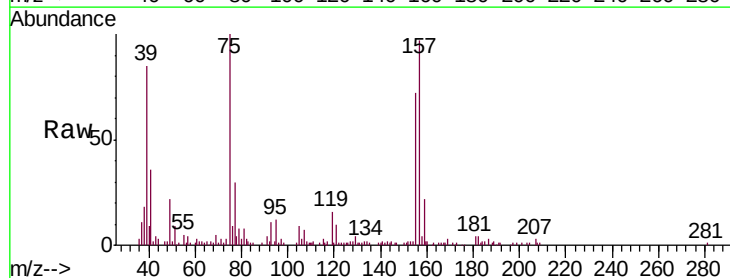
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

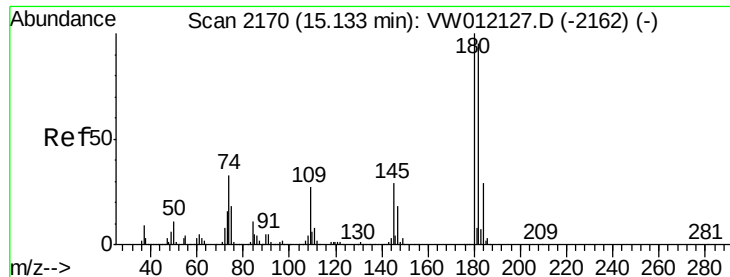
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.5  | 21.2  | 63.6  |
| 148     | 64.0  | 32.5  | 97.4  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 51.000 ug/l  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.01 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 77.9  | 37.5  | 112.3 |
| 157     | 101.3 | 50.5  | 151.5 |

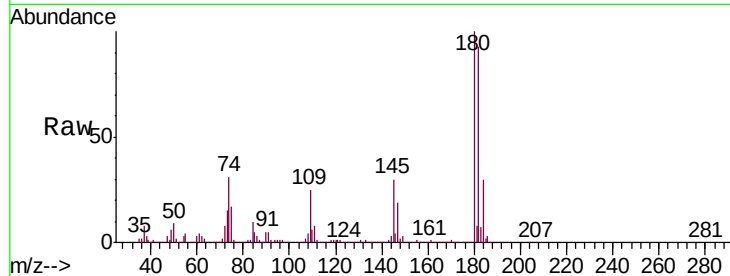




#93  
 1,2,4-Trichlorobenzene  
 Concen: 58.090 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.4  | 47.8  | 143.4 |
| 145     | 30.7  | 15.0  | 45.1  |

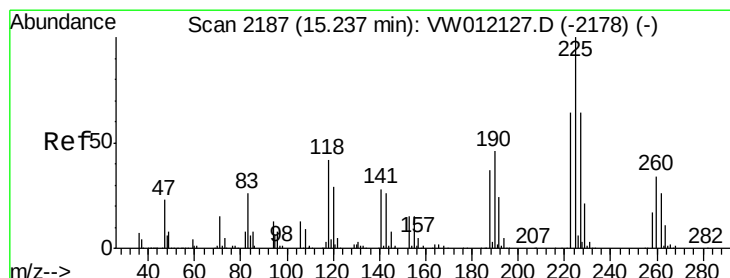
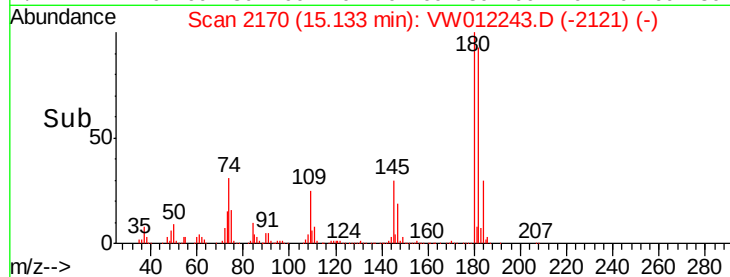
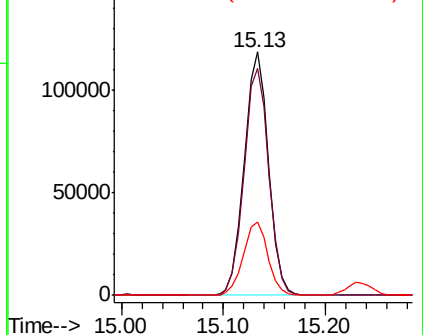


Abundance

Ion 179.80 (179.50 to 180.50): V

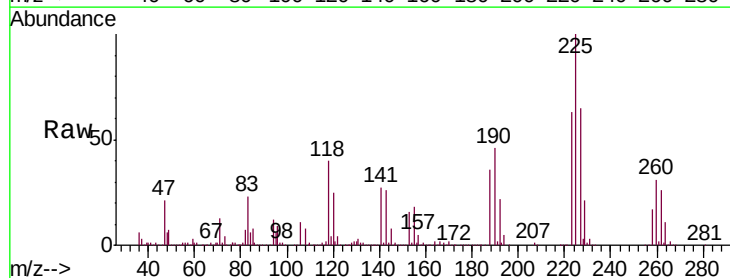
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94  
 Hexachlorobutadiene  
 Concen: 56.921 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW012243.D  
 Acq: 28 Aug 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.0  | 32.3  | 96.8  |
| 227     | 64.3  | 32.9  | 98.6  |

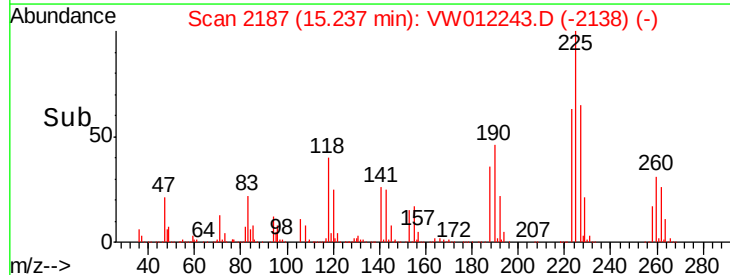
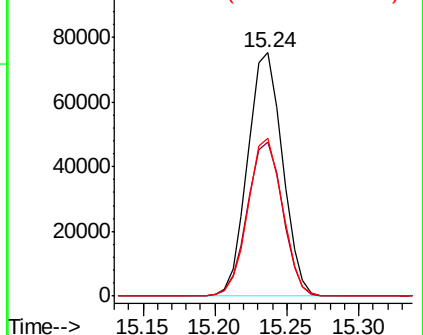


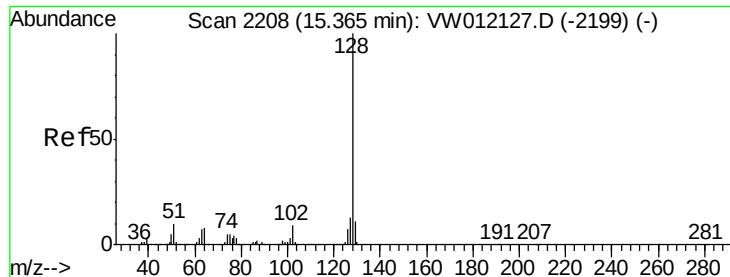
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

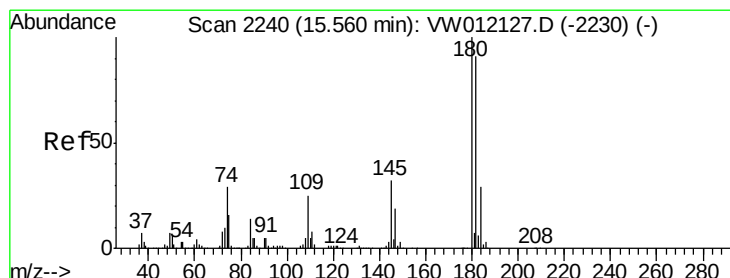
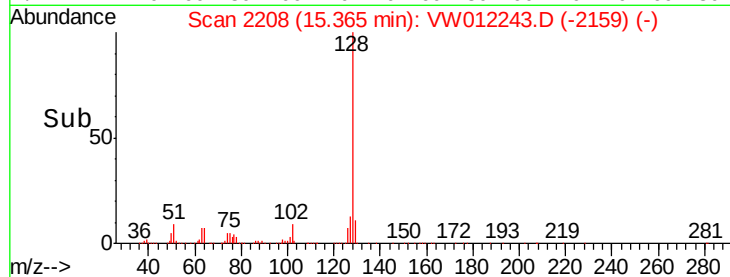
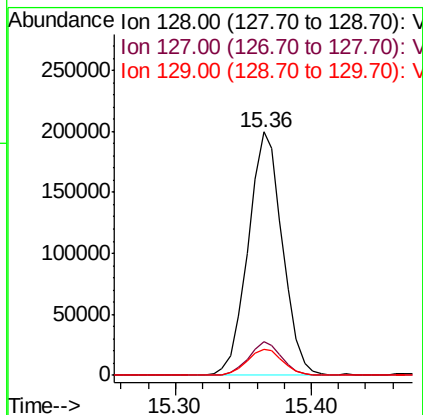
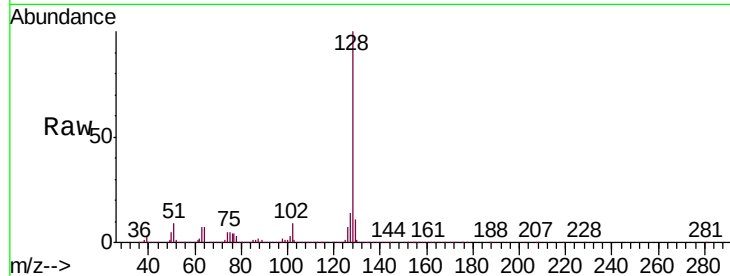




#95  
Naphthalene  
Concen: 52.929 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

Tot Ion:128 Resp: 350461  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.7 16.1  
129 11.0 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 58.105 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.01 min  
Lab File: VW012243.D  
Acq: 28 Aug 2019 10:13

Tgt Ion:180 Resp: 170169  
Ion Ratio Lower Upper  
180 100  
182 94.2 47.1 141.3  
145 32.8 16.2 48.5

