

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121818\  
 Data File : VW007598.D  
 Acq On : 15 Dec 2018 23:03  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

Quant Time: Dec 16 02:34:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 73339    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 122617   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 110286   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 55471    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 38626    | 47.47 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.94% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 35798    | 48.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.46% |          |
| 50) Toluene-d8              | 10.32 | 98   | 132372   | 47.56 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.12% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 50126    | 48.99 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.98% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 23775    | 46.390  | ug/l  | 97     |
| 3) Chloromethane              | 2.21 | 50   | 17472    | 40.706  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.37 | 62   | 21647    | 42.976  | ug/l  | 93     |
| 5) Bromomethane               | 2.78 | 94   | 15099    | 44.615  | ug/l  | 94     |
| 6) Chloroethane               | 2.93 | 64   | 12448    | 44.895  | ug/l  | 95     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 21640    | 47.786  | ug/l  | 96     |
| 8) Diethyl Ether              | 3.67 | 74   | 17791    | 50.195  | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 35609    | 47.655  | ug/l  | 97     |
| 10) Methyl Iodide             | 4.27 | 142  | 58930    | 47.618  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 5.17 | 59   | 13288    | 237.797 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 34665    | 48.184  | ug/l  | 99     |
| 13) Acrolein                  | 3.89 | 56   | 8750     | 236.645 | ug/l  | 99     |
| 14) Allyl chloride            | 4.67 | 41   | 48479    | 45.715  | ug/l  | 98     |
| 15) Acrylonitrile             | 5.36 | 53   | 37536    | 251.218 | ug/l  | 99     |
| 16) Acetone                   | 4.12 | 43   | 35567    | 250.263 | ug/l  | 92     |
| 17) Carbon Disulfide          | 4.37 | 76   | 100752   | 46.187  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.67 | 43   | 19285    | 49.997  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 53323    | 49.132  | ug/l  | 100    |
| 20) Methylene Chloride        | 4.91 | 84   | 37417    | 47.987  | ug/l  | 95     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 38140    | 47.391  | ug/l  | 97     |
| 22) Diisopropyl ether         | 6.31 | 45   | 95429    | 46.817  | ug/l  | 98     |
| 23) Vinyl Acetate             | 6.26 | 43   | 277911   | 243.755 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 66501    | 48.271  | ug/l  | 98     |
| 25) 2-Butanone                | 7.17 | 43   | 48020    | 258.818 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 43942    | 48.195  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 42869    | 48.647  | ug/l  | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 26145    | 50.454  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 7.53 | 42   | 29371    | 250.058 | ug/l  | 95     |
| 30) Chloroform                | 7.68 | 83   | 73823    | 49.241  | ug/l  | 99     |
| 31) Cyclohexane               | 7.95 | 56   | 54985    | 43.502  | ug/l  | 90     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 64893    | 49.359  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 55670    | 49.770  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.25 | 43   | 20115    | 48.350  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 62161    | 51.074  | ug/l  | 97     |

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Instrument :  
 MSVOA\_W  
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 BFB

Quant Time: Dec 16 02:34:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 67782    | 50.044   | ug/l   | 92       |
| 40) Benzene                    | 8.32  | 78   | 154018   | 49.616   | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 12438    | 52.501   | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 50131    | 51.410   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 41579    | 50.596   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 44669    | 50.392   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 35304    | 49.146   | ug/l   | 96       |
| 46) Dibromomethane             | 9.46  | 93   | 21137    | 51.814   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.65  | 83   | 53758    | 50.240   | ug/l   | 91       |
| 48) Methyl methacrylate        | 9.44  | 41   | 20927    | 49.584   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 7410     | 1119.494 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 103868   | 267.498  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 101004   | 50.279   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 53865    | 51.852   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 59727    | 49.736   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 29879    | 53.816   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 35396    | 53.041   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 49697    | 54.535   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 91838    | 298.428  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 72358    | 279.467  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 37554    | 53.598   | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 29228    | 53.271   | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.87 | 164  | 38661    | 48.747   | ug/l   | 93       |
| 65) Chlorobenzene              | 11.66 | 112  | 116141   | 50.524   | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 41130    | 50.803   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 201688   | 51.033   | ug/l   | 95       |
| 68) m/p-Xylenes                | 11.84 | 106  | 155973   | 101.518  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 73555    | 51.261   | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 121788   | 52.547   | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 20693    | 49.936   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.47 | 105  | 205274   | 48.295   | ug/l   | 98       |
| 74) N-amyl acetate             | 12.27 | 43   | 37573    | 48.640   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 31754    | 50.441   | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 44913    | 98.197   | ug/l   | 30       |
| 77) Bromobenzene               | 12.75 | 156  | 46717    | 49.586   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.81 | 91   | 239185   | 50.003   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 140534   | 48.555   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 179523   | 50.267   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 9772     | 47.196   | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 146826   | 48.125   | ug/l   | 97       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 155391   | 49.379   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 179314   | 48.791   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 213504   | 49.700   | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 192909   | 49.985   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 92091    | 49.025   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 91717    | 48.567   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.83 | 91   | 177562   | 49.630   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 34030    | 49.557   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 83470    | 49.612   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6269     | 49.622   | ug/l   | 95       |

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Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

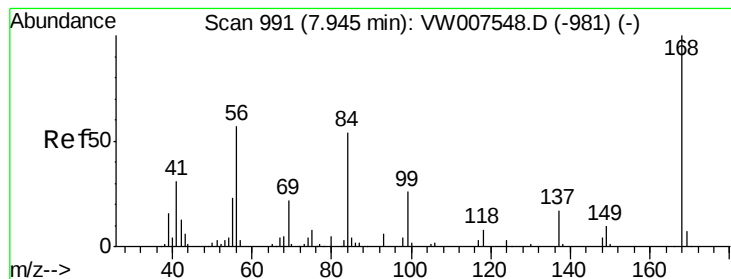
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

Quant Time: Dec 16 02:34:55 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 56099    | 48.451 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 30196    | 49.152 | ug/l  | 98       |
| 95) Naphthalene            | 15.37 | 128  | 112957   | 50.996 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 48603    | 48.323 | ug/l  | 97       |

(#) = 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. -0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampled :

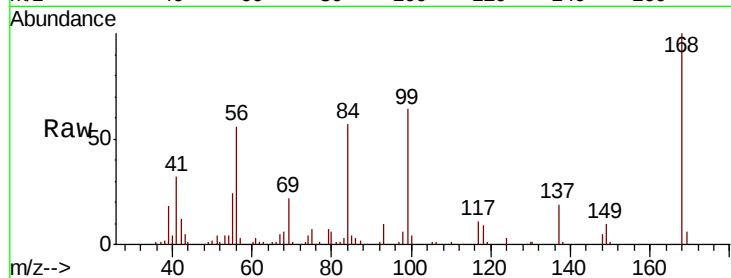
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Tgt Ion:168 Resp: 73339

Ion Ratio Lower Upper

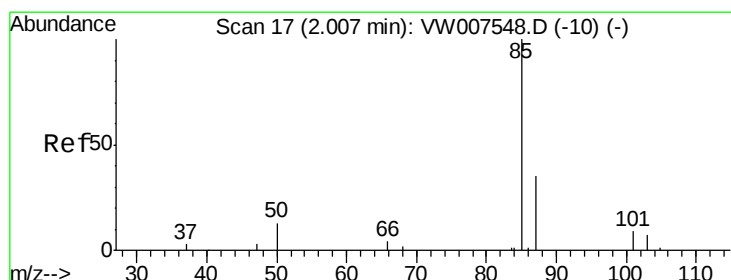
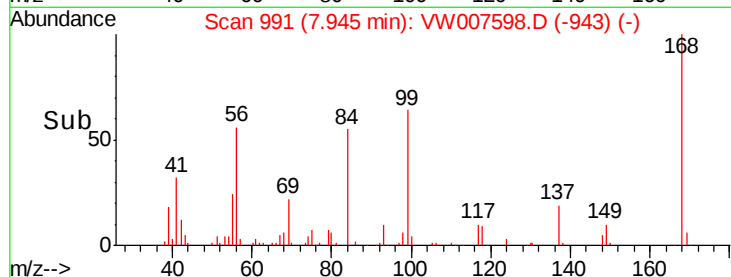
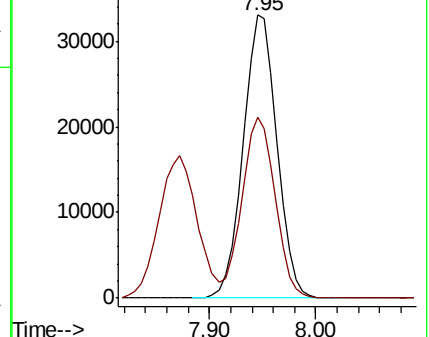
168 100

99 64.1 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): VW007548.D (-981) (-)

Ion 98.90 (98.60 to 99.60): VW007548.D (-981) (-)



#2

Dichlorodifluoromethane

Concen: 46.390 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW007598.D

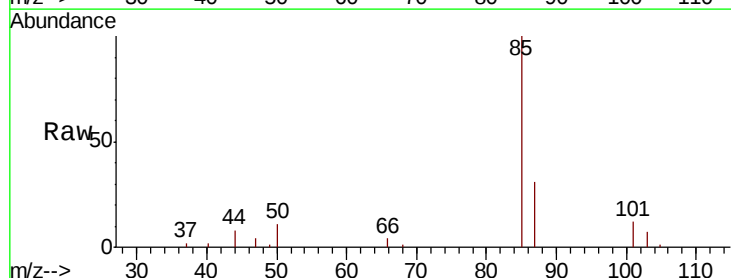
Acq: 15 Dec 2018 23:03

Tgt Ion: 85 Resp: 23775

Ion Ratio Lower Upper

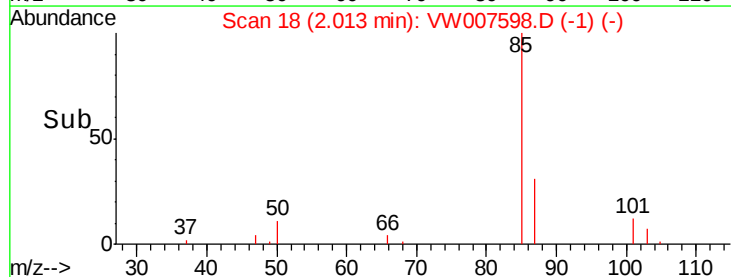
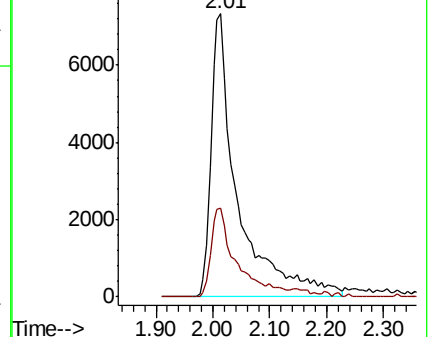
85 100

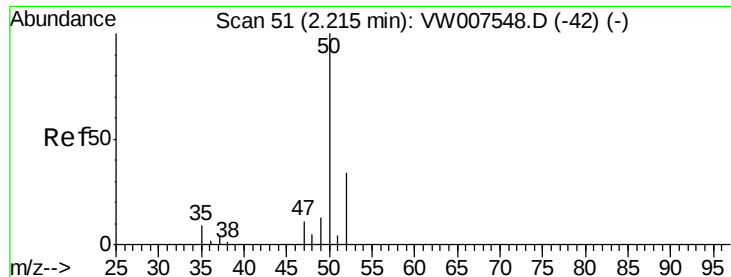
87 31.3 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VW007548.D (-10) (-)

Ion 86.90 (86.60 to 87.60): VW007548.D (-10) (-)





#3

Chloromethane

Concen: 40.706 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampled :

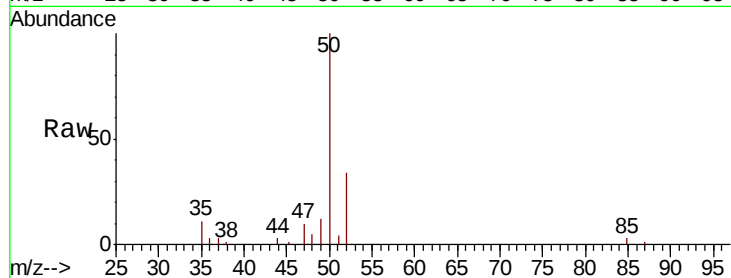
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Tgt Ion: 50 Resp: 17472

Ion Ratio Lower Upper

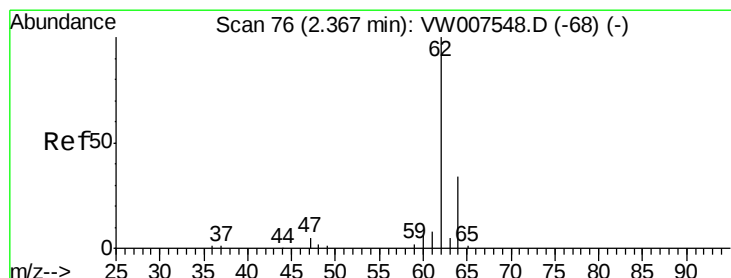
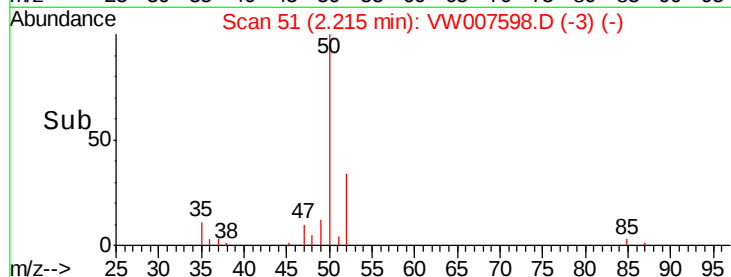
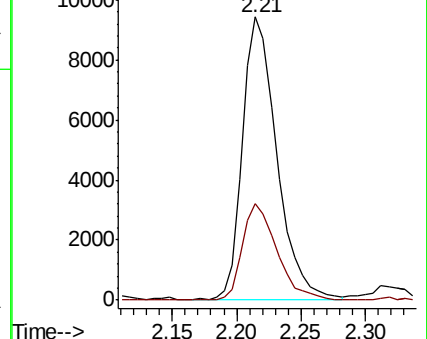
50 100

52 34.0 27.4 41.0



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 42.976 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW007598.D

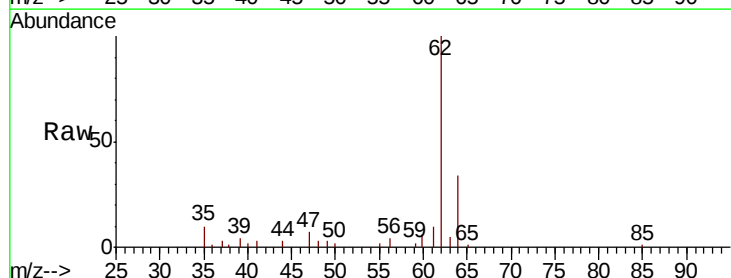
Acq: 15 Dec 2018 23:03

Tgt Ion: 62 Resp: 21647

Ion Ratio Lower Upper

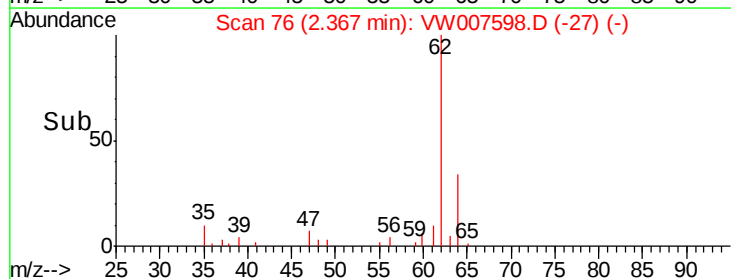
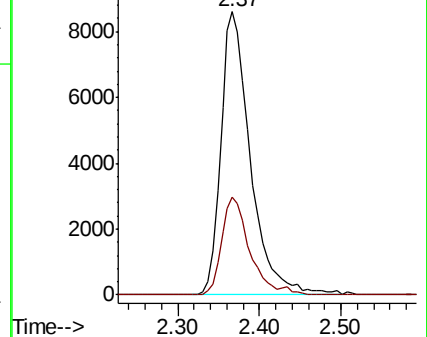
62 100

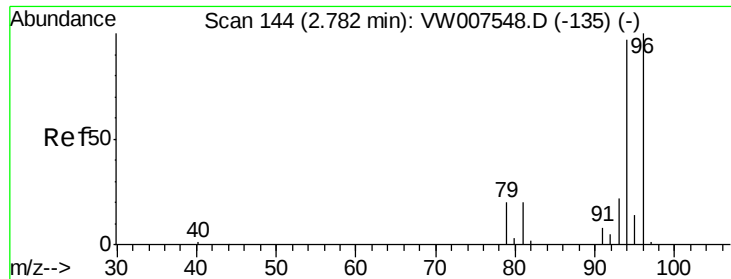
64 34.5 24.6 37.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

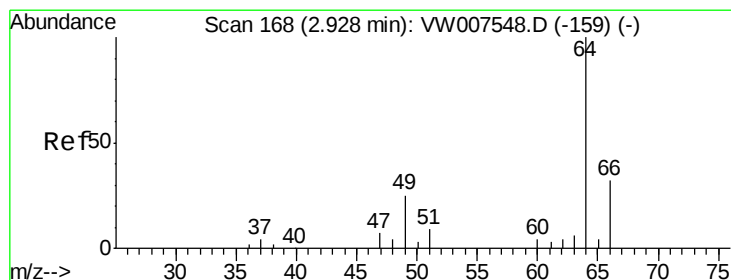
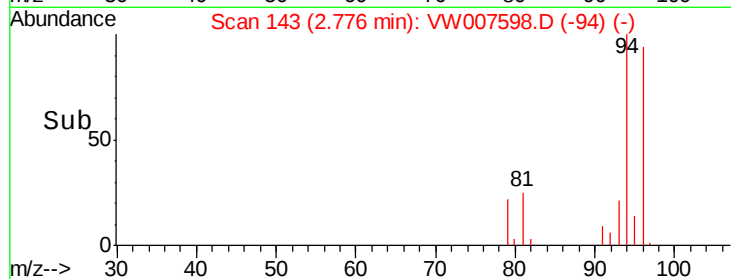
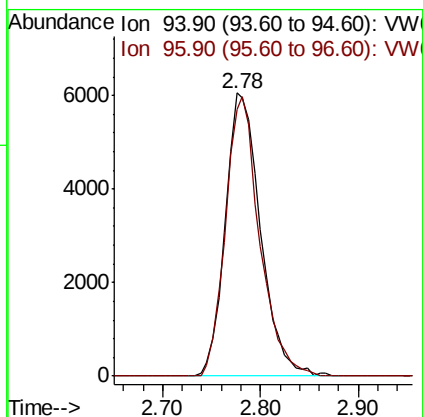
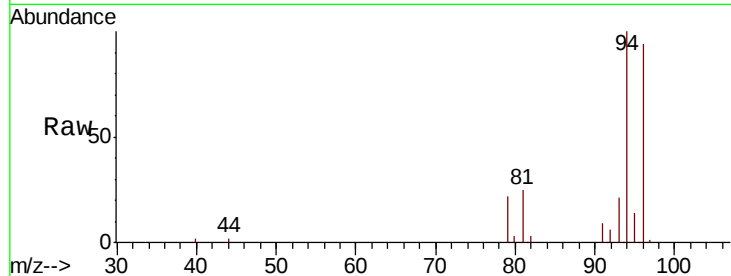




#5  
Bromomethane  
Concen: 44.615 ug/l  
RT: 2.78 min Scan# 143  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

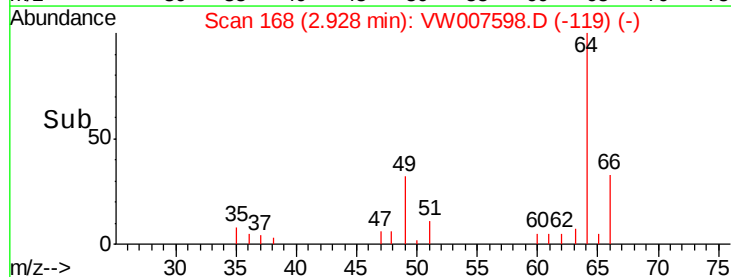
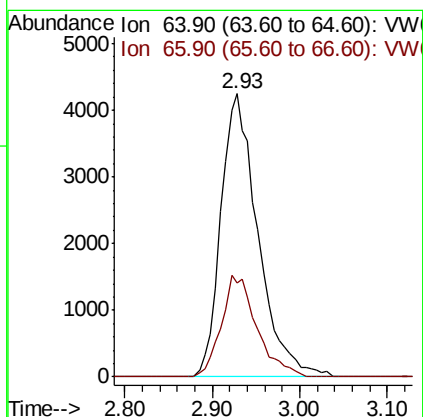
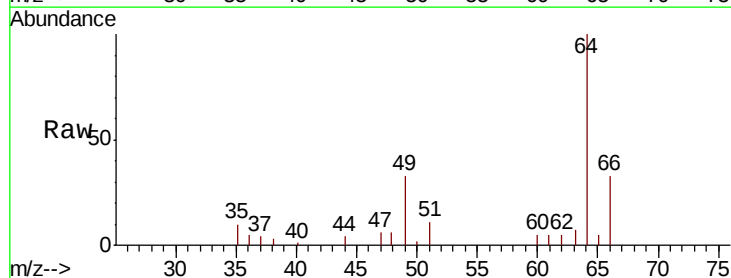
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

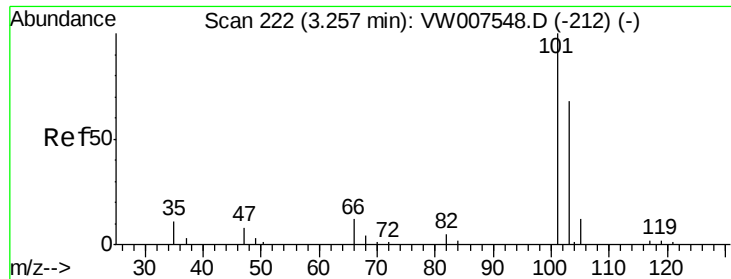
Tgt Ion: 94 Resp: 15099  
Ion Ratio Lower Upper  
94 100  
96 94.2 71.0 106.4



#6  
Chloroethane  
Concen: 44.895 ug/l  
RT: 2.93 min Scan# 168  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 64 Resp: 12448  
Ion Ratio Lower Upper  
64 100  
66 33.4 24.6 37.0



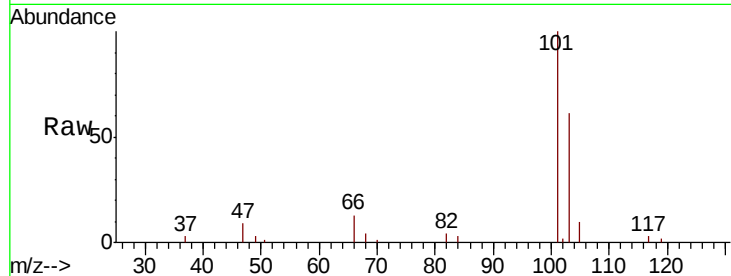


#7

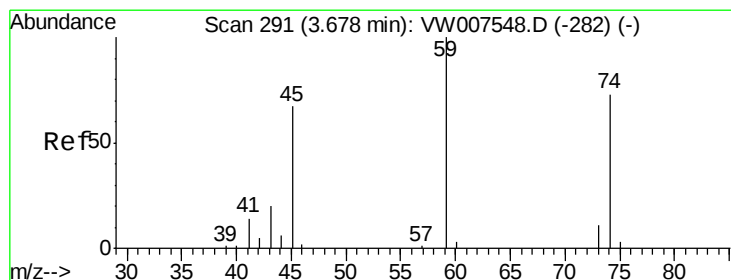
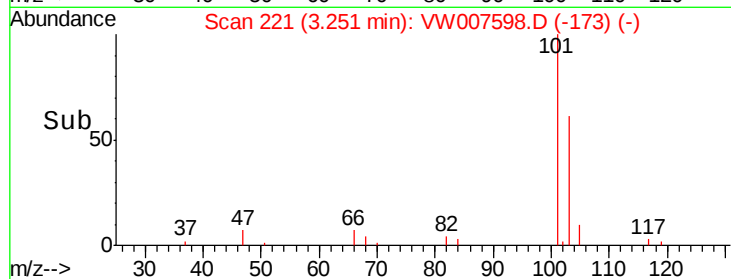
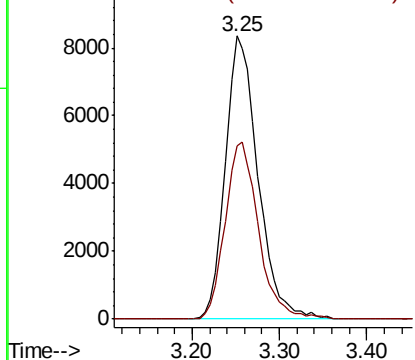
Trichlorofluoromethane  
 Concen: 47.786 ug/l  
 RT: 3.25 min Scan# 221  
 Delta R.T. -0.01 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

Tgt Ion: 101 Resp: 21640  
 Ion Ratio Lower Upper  
 101 100  
 103 61.2 51.7 77.5



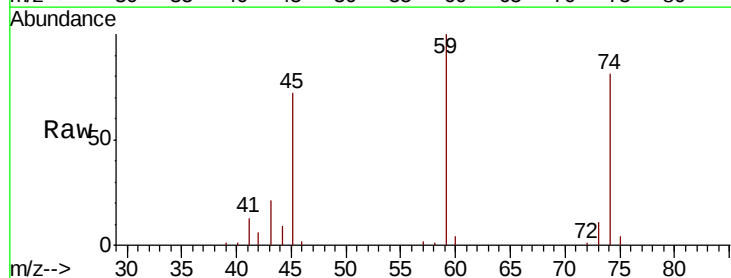
Abundance Ion 100.90 (100.60 to 101.60): V  
 Ion 102.80 (102.50 to 103.50): V



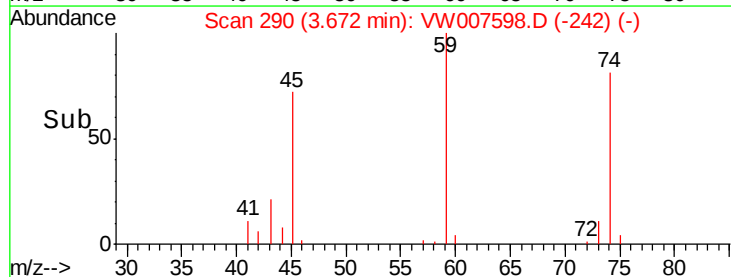
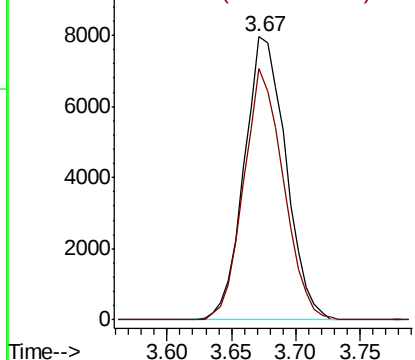
#8

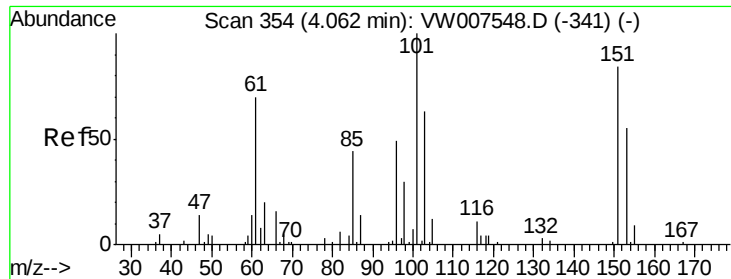
Diethyl Ether  
 Concen: 50.195 ug/l  
 RT: 3.67 min Scan# 290  
 Delta R.T. -0.01 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 74 Resp: 17791  
 Ion Ratio Lower Upper  
 74 100  
 45 84.6 43.0 129.0



Abundance Ion 74.00 (73.70 to 74.70): VW  
 Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.655 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

BFB

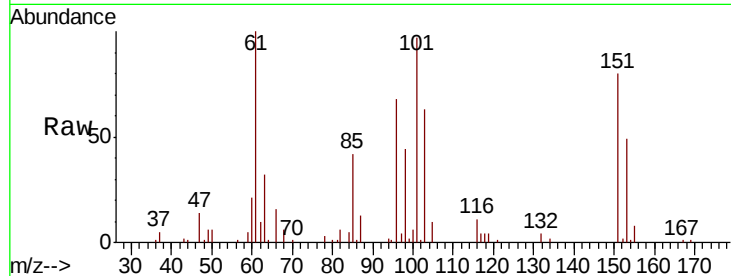
Tgt Ion:101 Resp: 35609

Ion Ratio Lower Upper

101 100

85 45.3 33.9 50.9

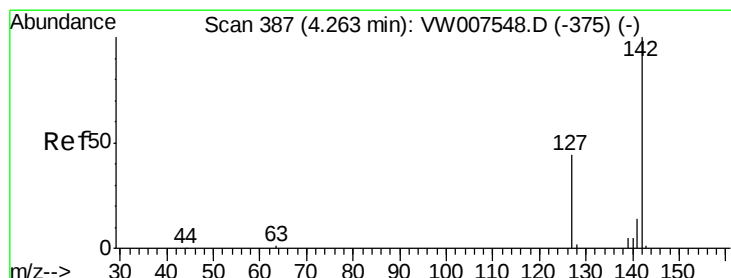
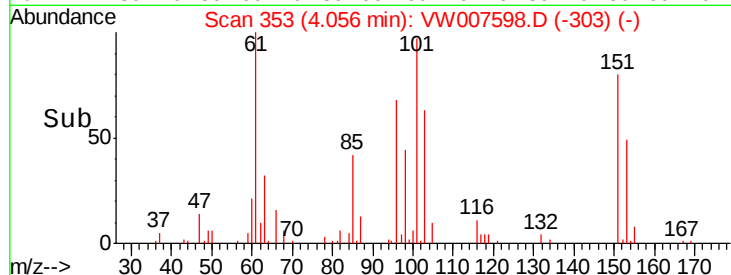
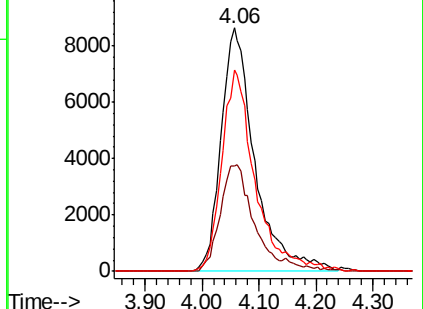
151 81.8 63.7 95.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VV

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 47.618 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

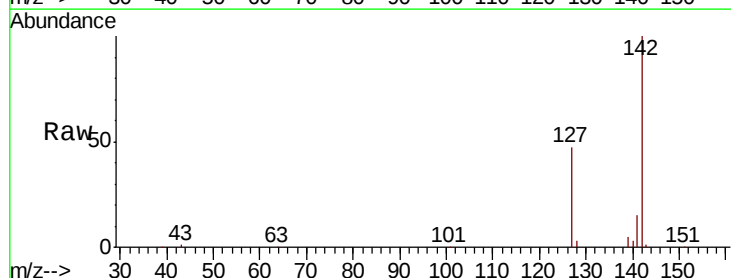
Tgt Ion:142 Resp: 58930

Ion Ratio Lower Upper

142 100

127 46.3 35.8 53.6

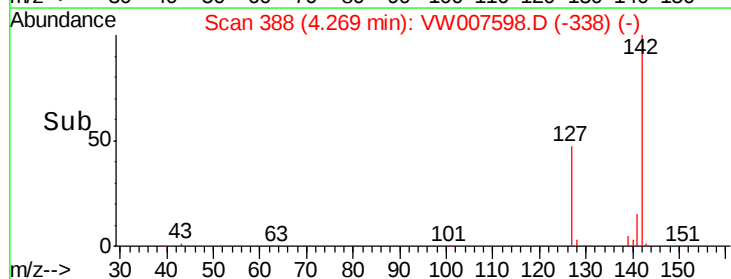
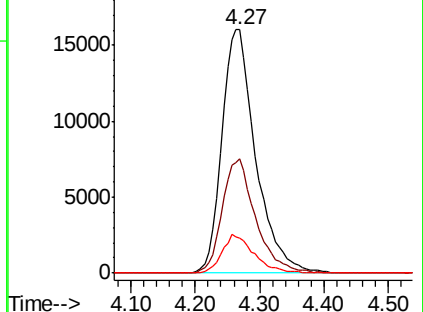
141 15.0 11.1 16.7

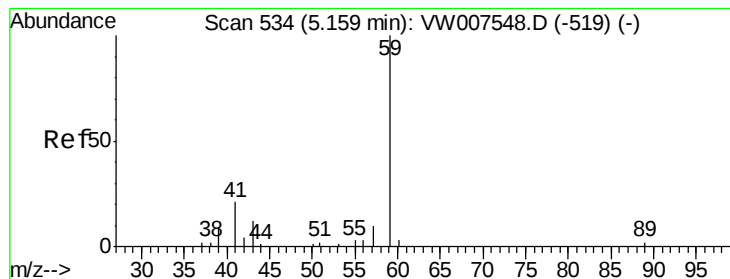


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



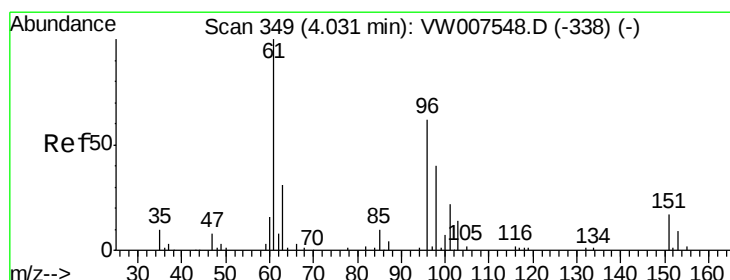
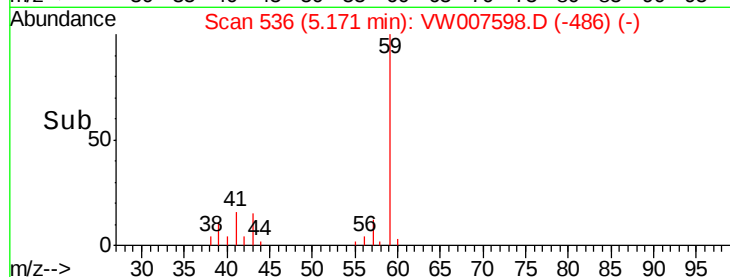
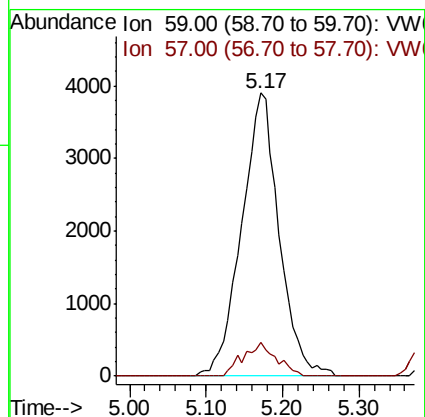
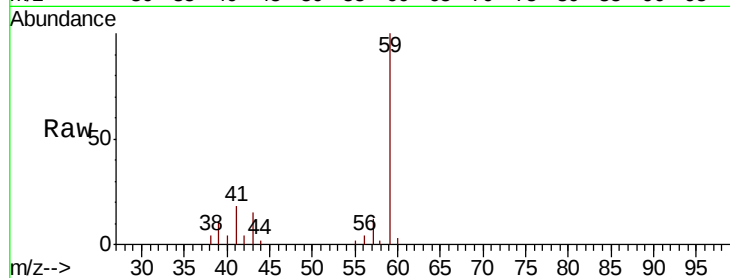


#11

Tert butyl alcohol  
 Concen: 237.797 ug/l  
 RT: 5.17 min Scan# 536  
 Delta R.T. 0.01 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

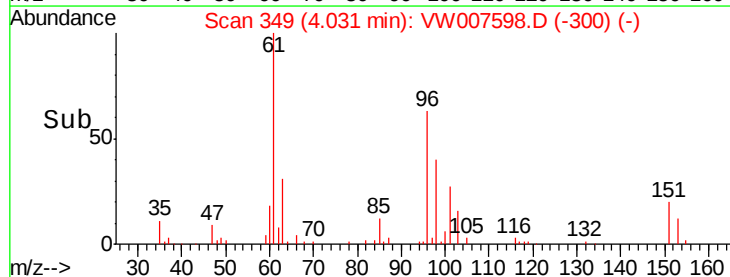
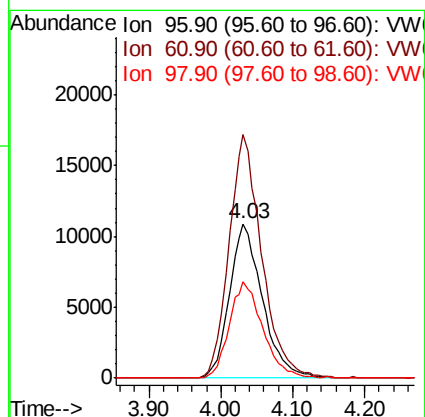
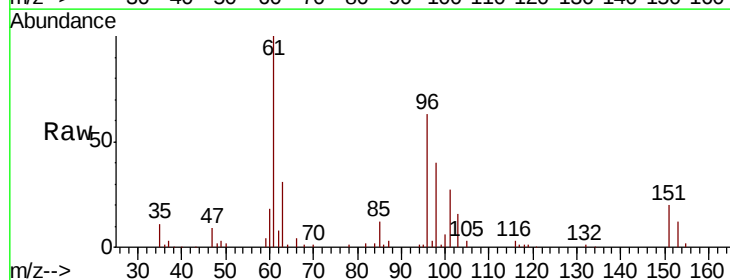
Tgt Ion: 59 Resp: 13288  
 Ion Ratio Lower Upper  
 59 100  
 57 10.4 7.6 11.4

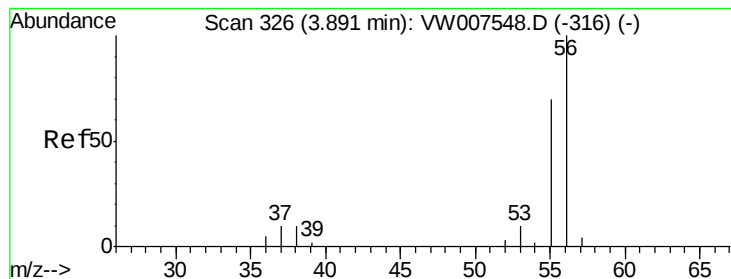


#12

1,1-Dichloroethene  
 Concen: 48.184 ug/l  
 RT: 4.03 min Scan# 349  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 96 Resp: 34665  
 Ion Ratio Lower Upper  
 96 100  
 61 157.8 126.2 189.2  
 98 62.3 48.3 72.5





#13

Acrolein

Concen: 236.645 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

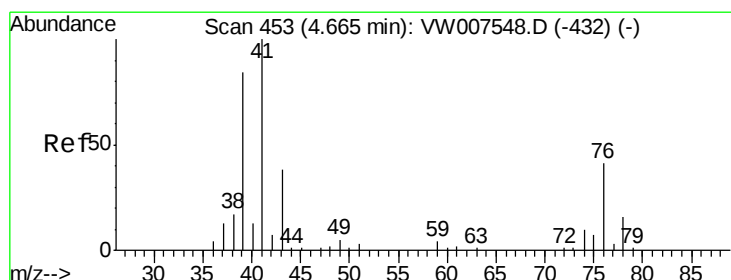
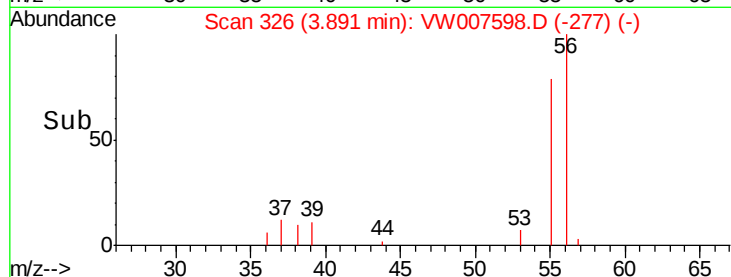
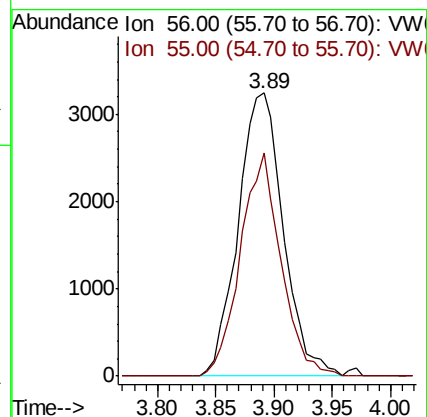
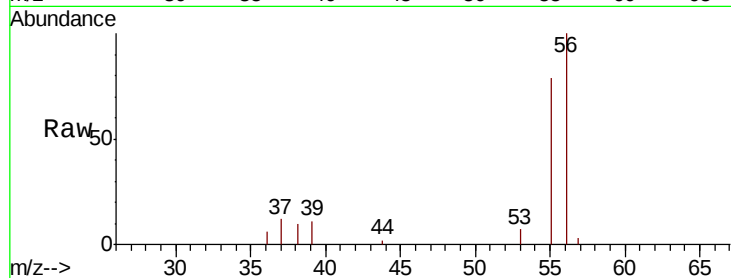
BFB

Tgt Ion: 56 Resp: 8750

Ion Ratio Lower Upper

56 100

55 70.8 57.4 86.2



#14

Allyl chloride

Concen: 45.715 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

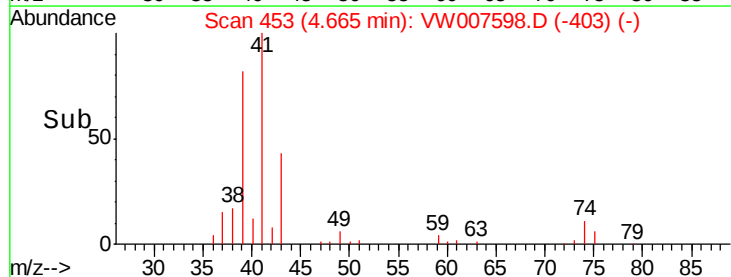
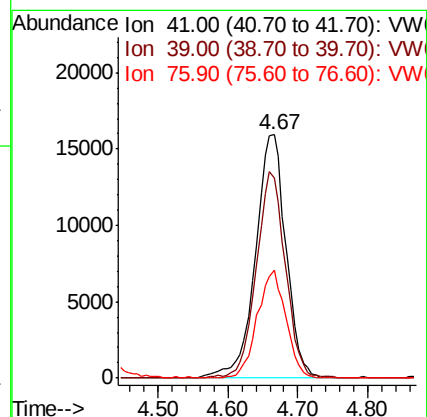
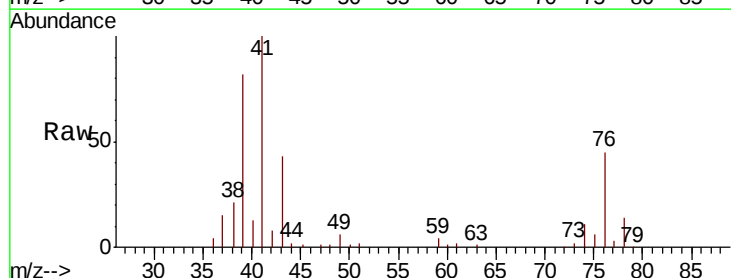
Tgt Ion: 41 Resp: 48479

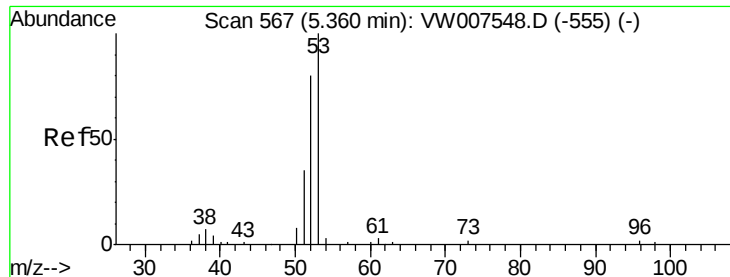
Ion Ratio Lower Upper

41 100

39 81.0 63.4 95.2

76 41.3 32.1 48.1





#15

Acrylonitrile

Concen: 251.218 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

BFB

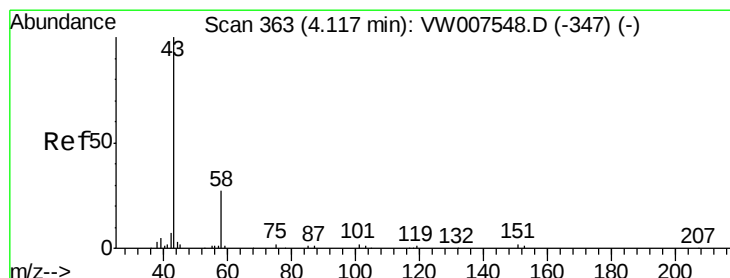
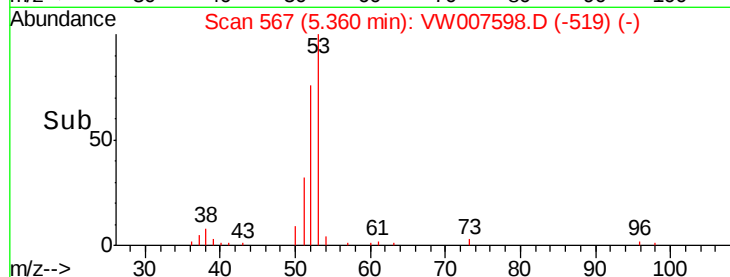
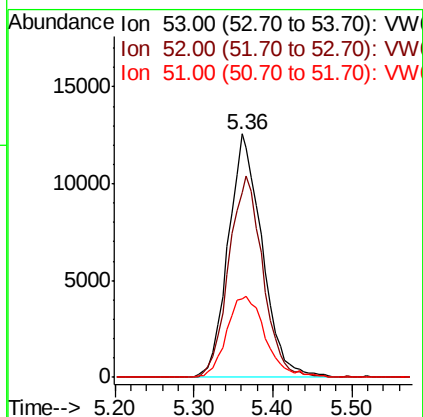
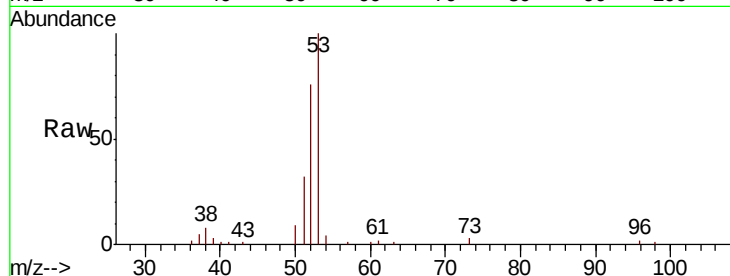
Tgt Ion: 53 Resp: 37536

Ion Ratio Lower Upper

53 100

52 83.1 67.4 101.2

51 38.0 30.2 45.2



#16

Acetone

Concen: 250.263 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007598.D

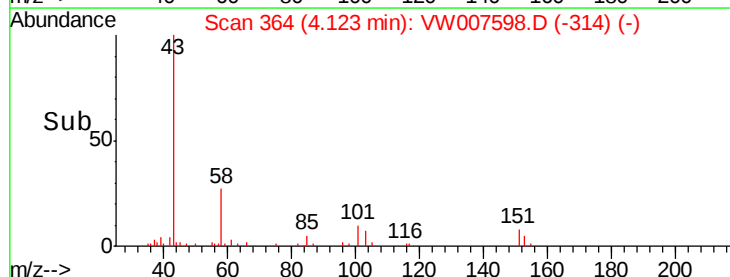
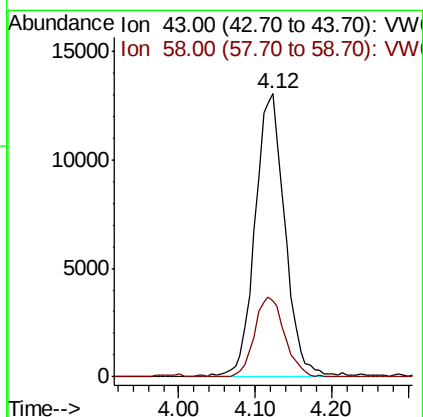
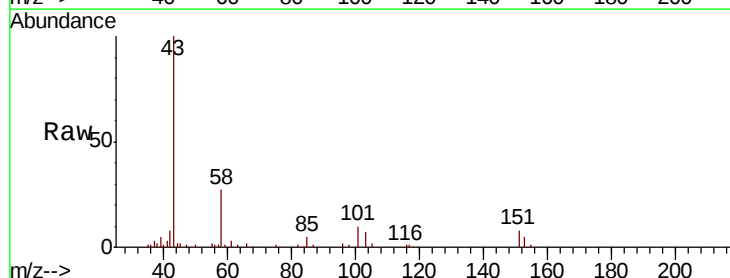
Acq: 15 Dec 2018 23:03

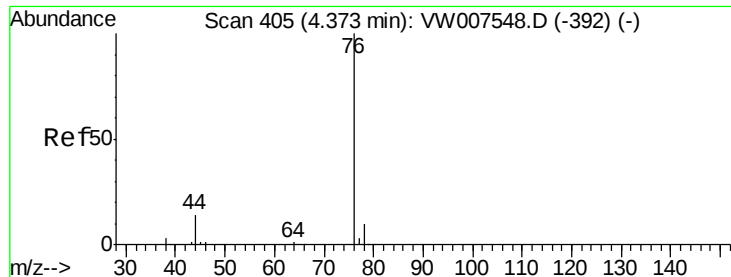
Tgt Ion: 43 Resp: 35567

Ion Ratio Lower Upper

43 100

58 27.0 24.9 37.3

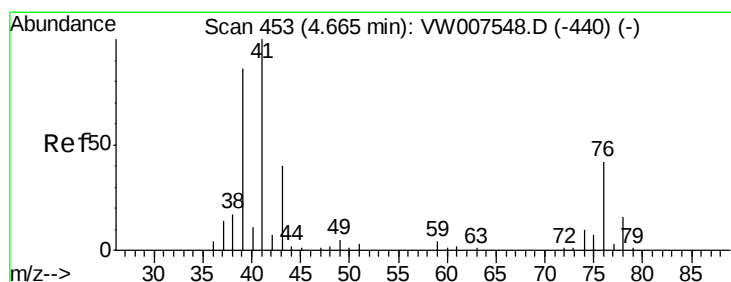
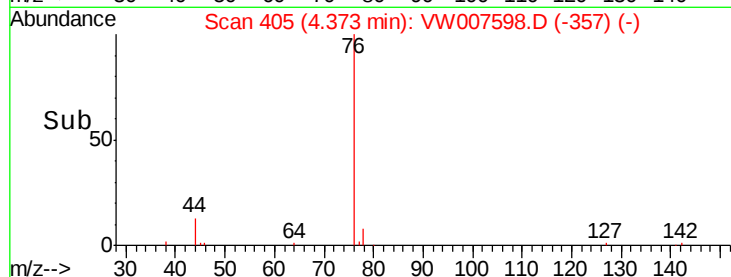
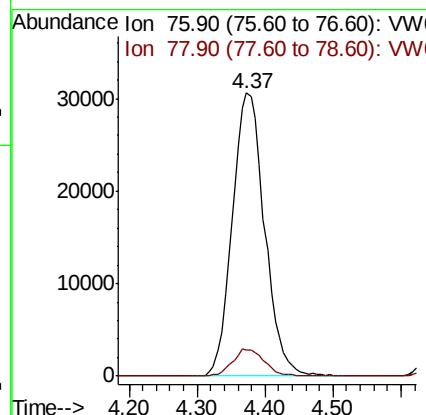
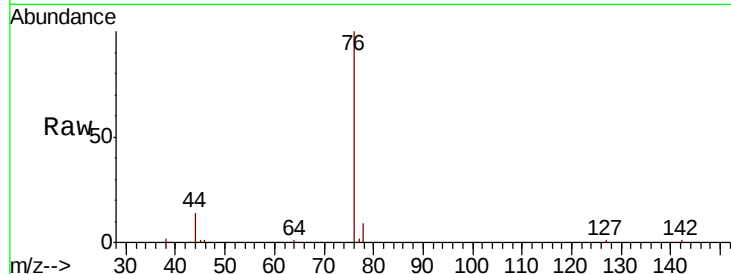




#17  
Carbon Disulfide  
Concen: 46.187 ug/l  
RT: 4.37 min Scan# 405  
Delta R.T. -0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

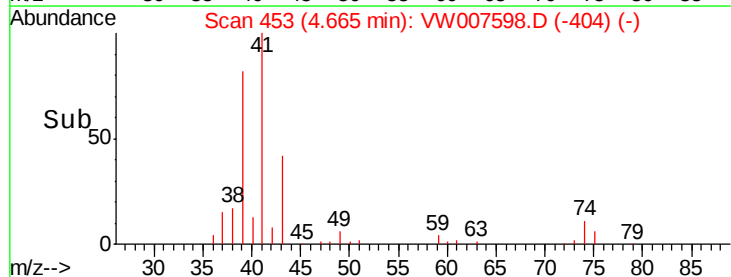
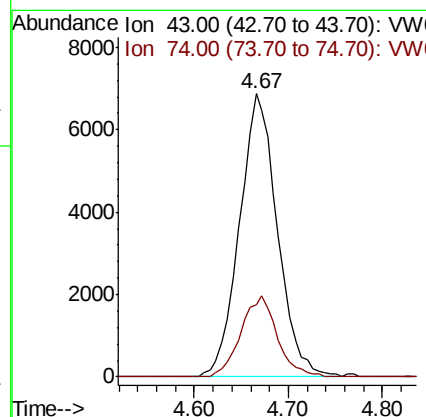
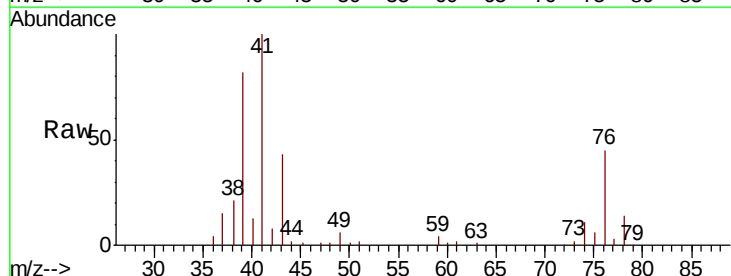
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

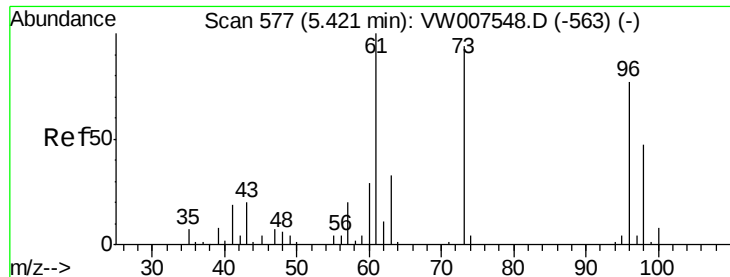
Tgt Ion: 76 Resp: 100752  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.1 10.7



#18  
Methyl Acetate  
Concen: 49.997 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 43 Resp: 19285  
Ion Ratio Lower Upper  
43 100  
74 27.4 21.1 31.7

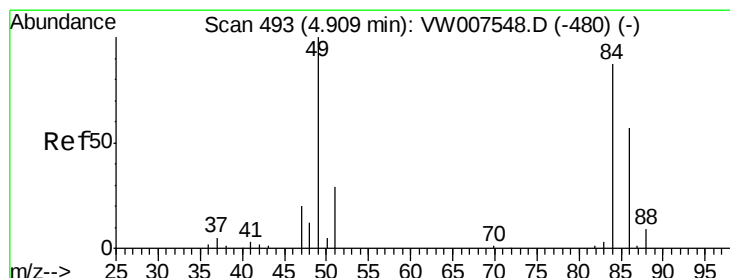
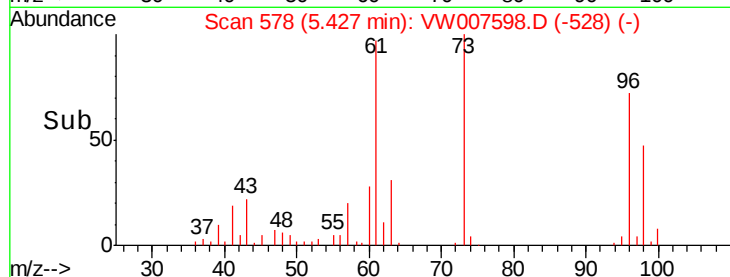
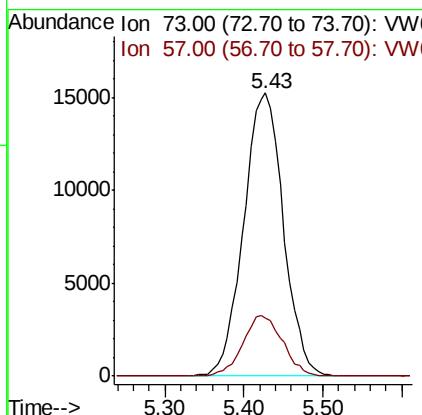
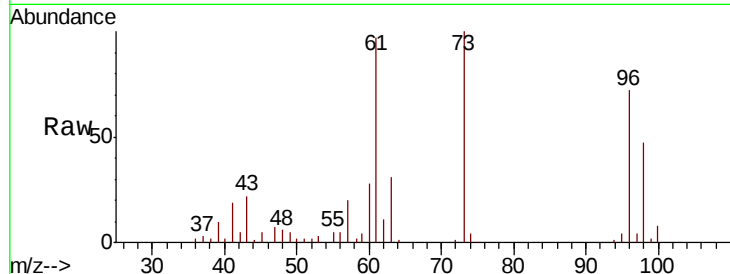




#19  
Methyl tert-butyl Ether  
Concen: 49.132 ug/l  
RT: 5.43 min Scan# 578  
Delta R.T. 0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

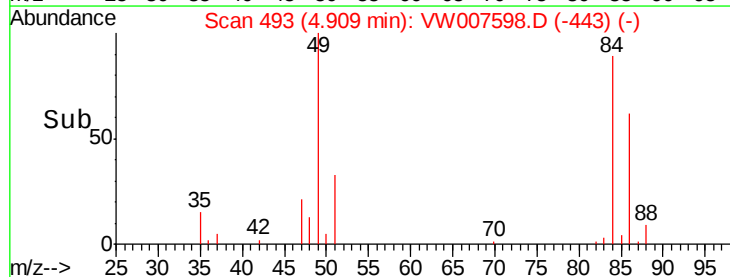
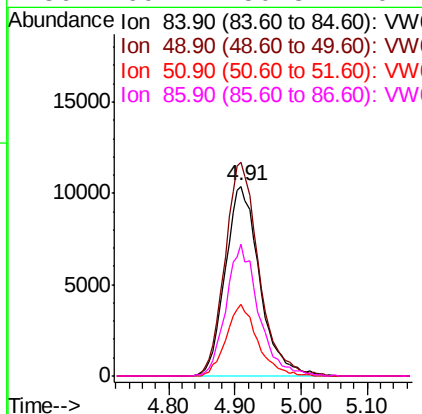
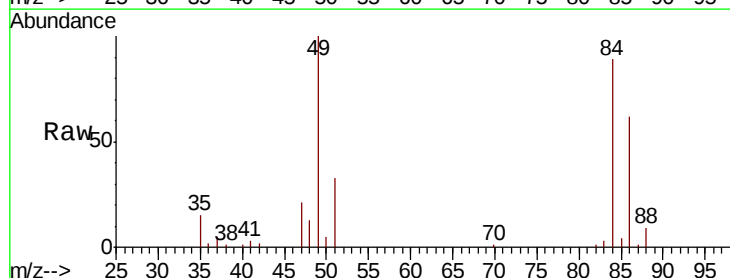
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

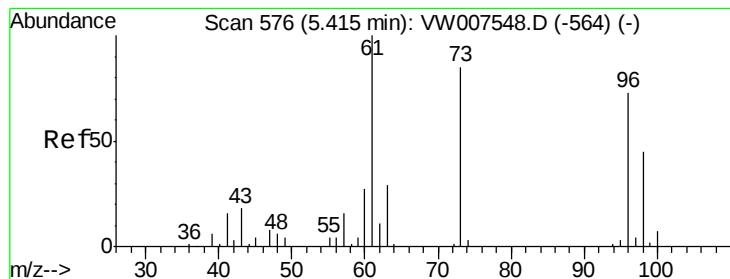
Tgt Ion: 73 Resp: 53323  
Ion Ratio Lower Upper  
73 100  
57 20.4 16.4 24.6



#20  
Methylene Chloride  
Concen: 47.987 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. 0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 84 Resp: 37417  
Ion Ratio Lower Upper  
84 100  
49 112.5 87.1 130.7  
51 37.5 28.2 42.2  
86 69.4 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 47.391 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

BFB

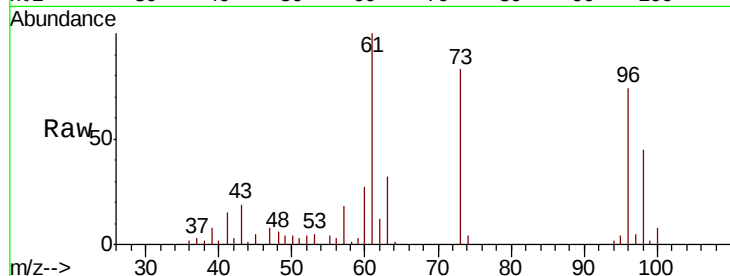
Tgt Ion: 96 Resp: 38140

Ion Ratio Lower Upper

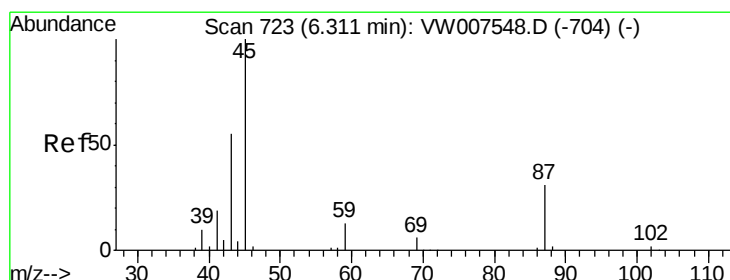
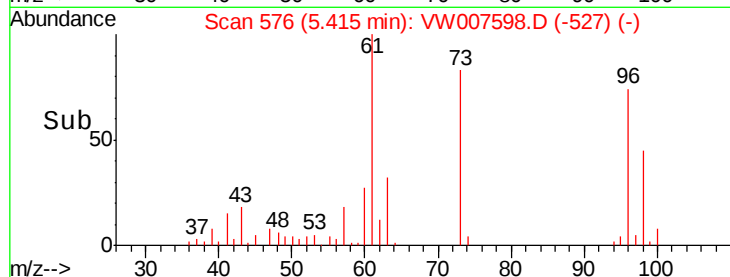
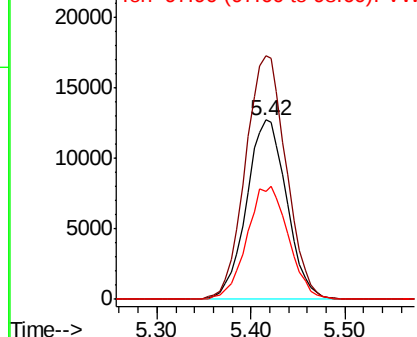
96 100

61 135.7 105.0 157.6

98 60.5 49.7 74.5



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: 46.817 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Tgt Ion: 45 Resp: 95429

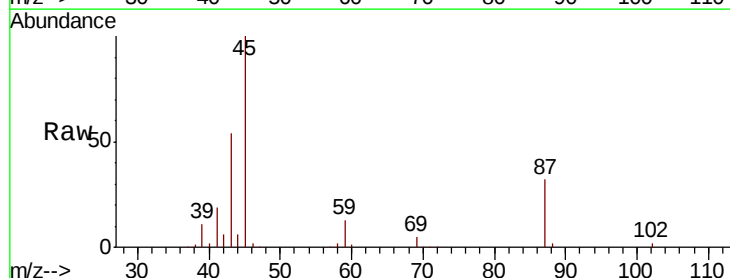
Ion Ratio Lower Upper

45 100

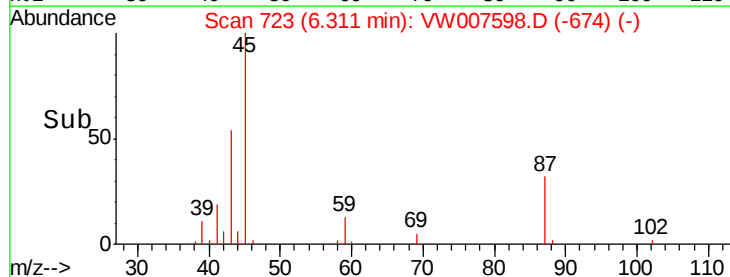
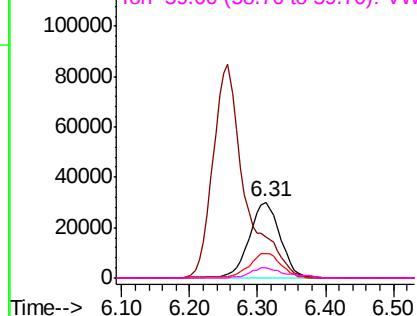
43 53.2 41.6 62.4

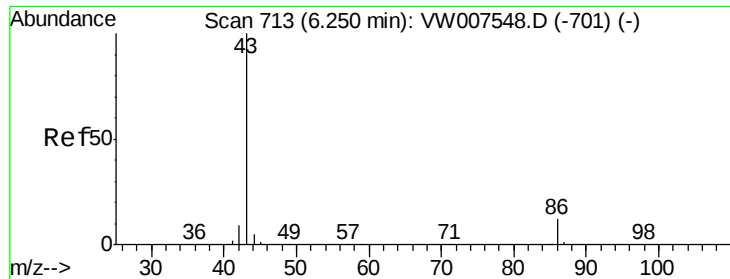
87 31.8 24.3 36.5

59 12.9 9.4 14.0



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: 243.755 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

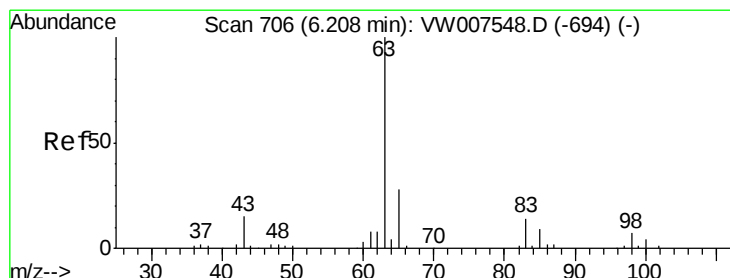
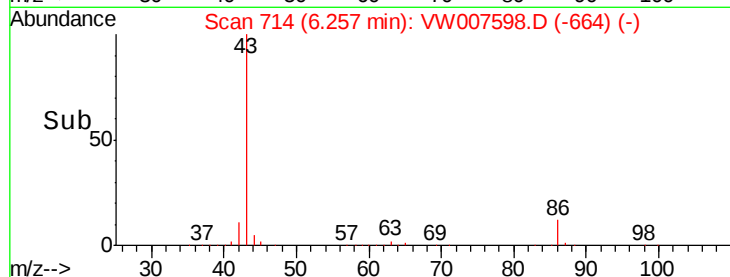
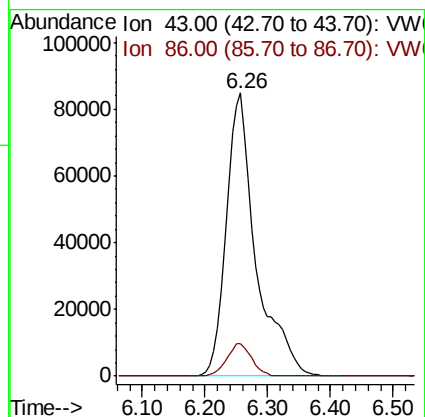
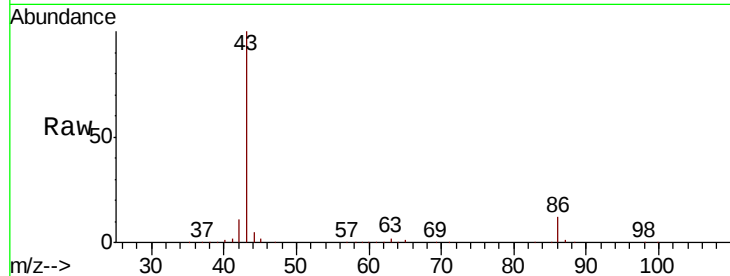
BFB

Tgt Ion: 43 Resp: 277911

Ion Ratio Lower Upper

43 100

86 11.6 8.6 12.8



#24

1,1-Dichloroethane

Concen: 48.271 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

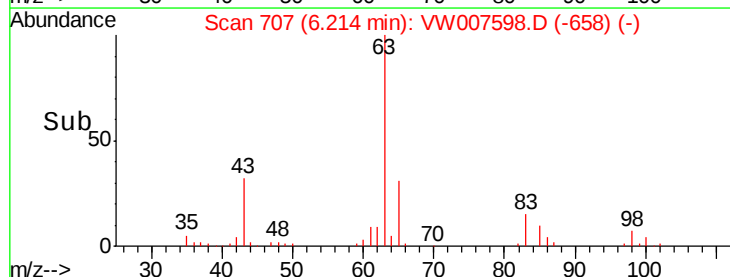
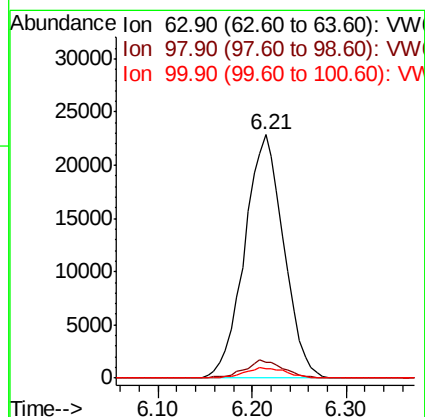
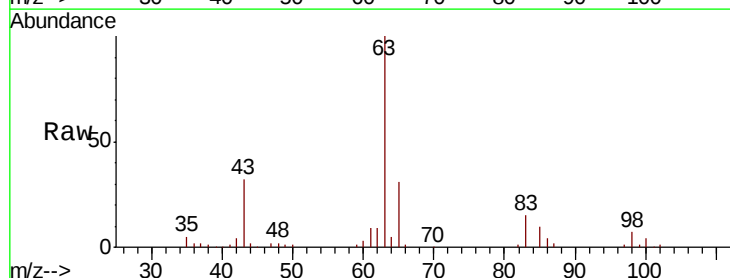
Tgt Ion: 63 Resp: 66501

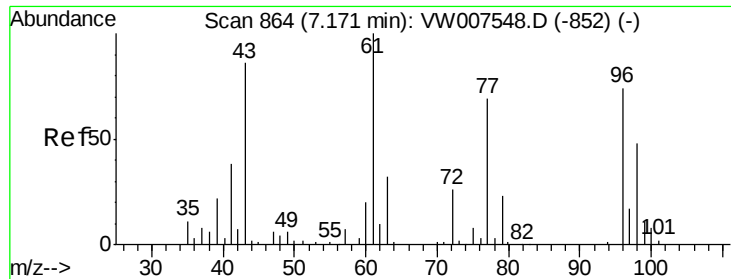
Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.4

100 3.7 2.5 7.5

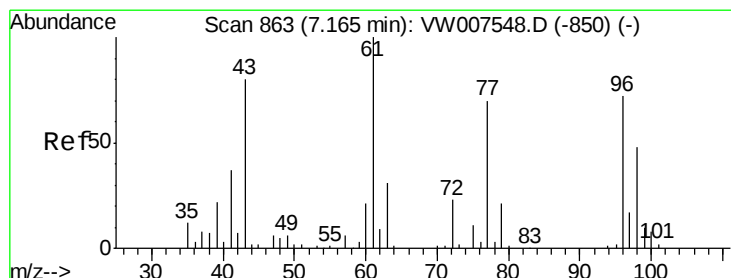
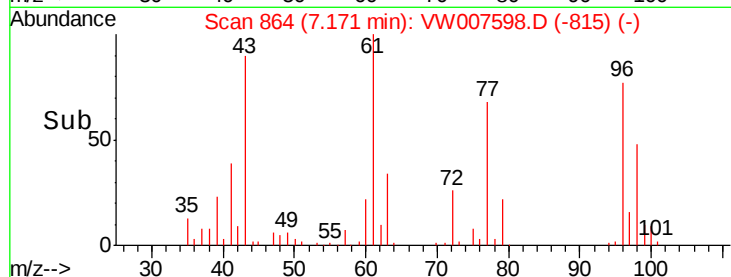
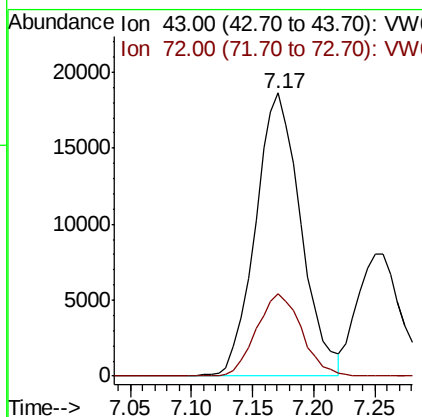
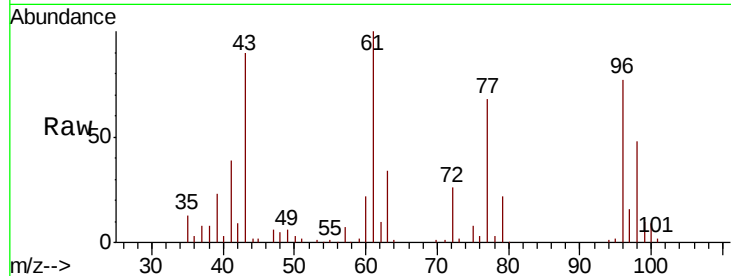




#25  
2-Butanone  
Concen: 258.818 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

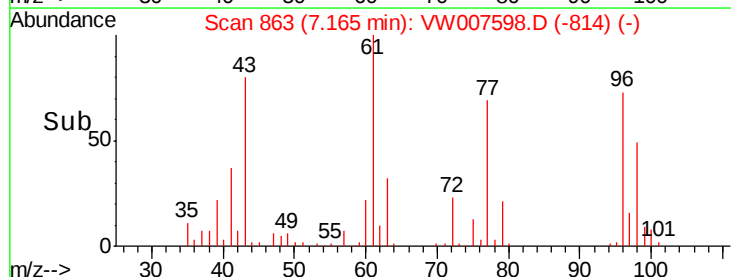
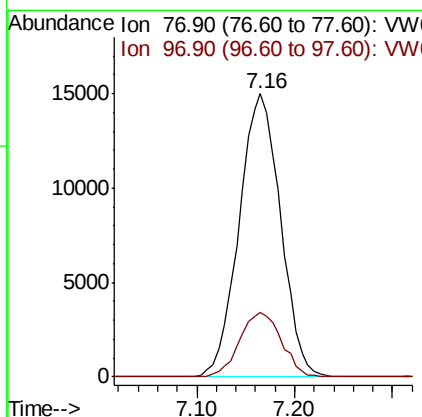
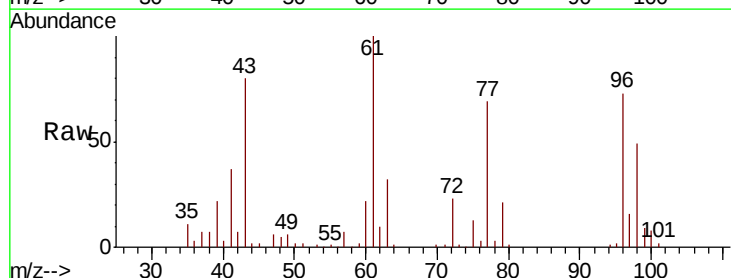
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

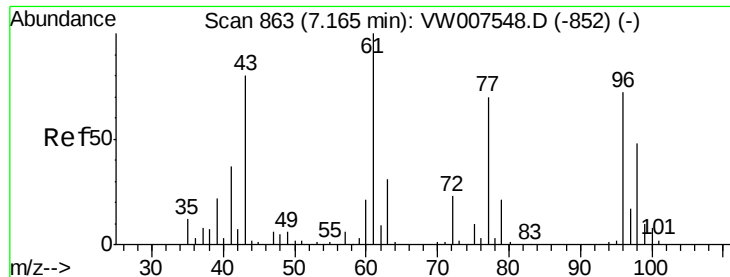
Tgt Ion: 43 Resp: 48020  
Ion Ratio Lower Upper  
43 100  
72 29.0 23.4 35.2



#26  
2,2-Dichloropropane  
Concen: 48.195 ug/l  
RT: 7.16 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 77 Resp: 43942  
Ion Ratio Lower Upper  
77 100  
97 23.0 11.6 34.8



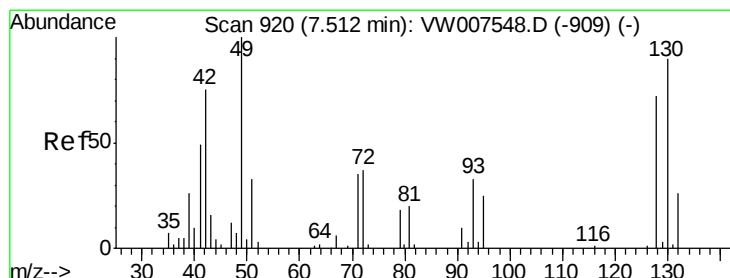
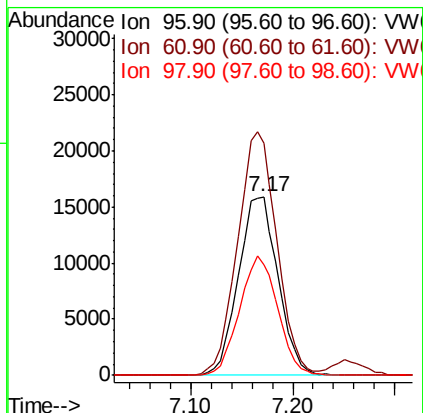
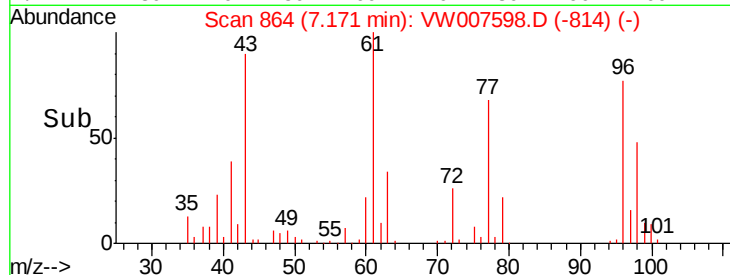
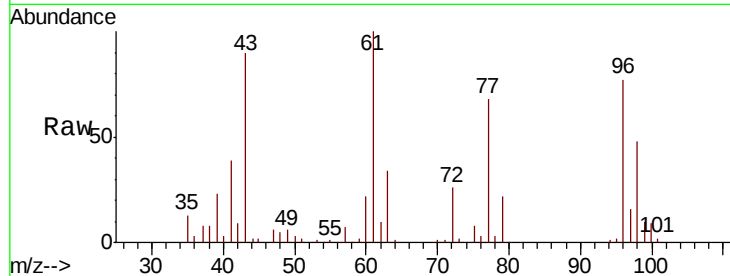


#27

cis-1,2-Dichloroethene  
Concen: 48.647 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. 0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

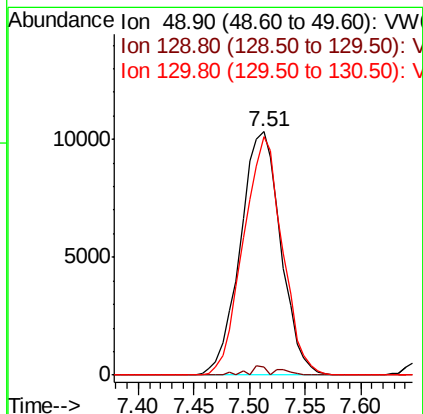
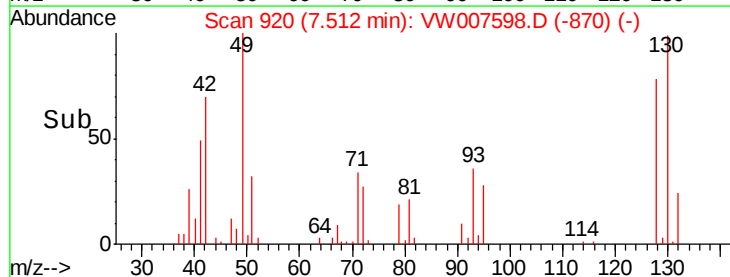
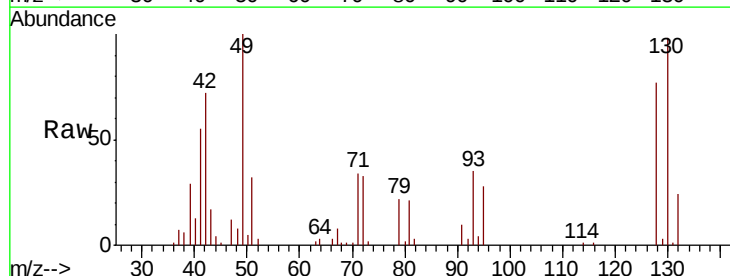
Tgt Ion: 96 Resp: 42869  
Ion Ratio Lower Upper  
96 100  
61 135.0 0.0 268.4  
98 64.4 0.0 127.8

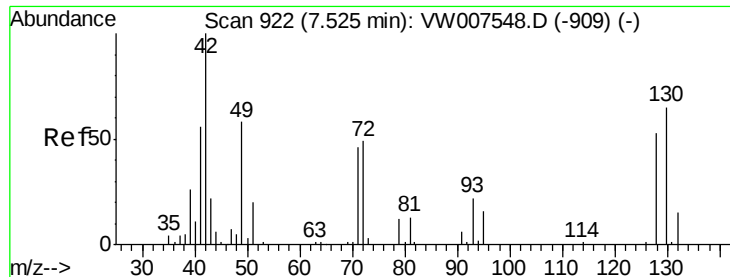


#28

Bromochloromethane  
Concen: 50.454 ug/l  
RT: 7.51 min Scan# 920  
Delta R.T. 0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 49 Resp: 26145  
Ion Ratio Lower Upper  
49 100  
129 1.3 0.0 2.6  
130 94.1 75.9 113.9





#29

Tetrahydrofuran

Concen: 250.058 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampled :

BFB

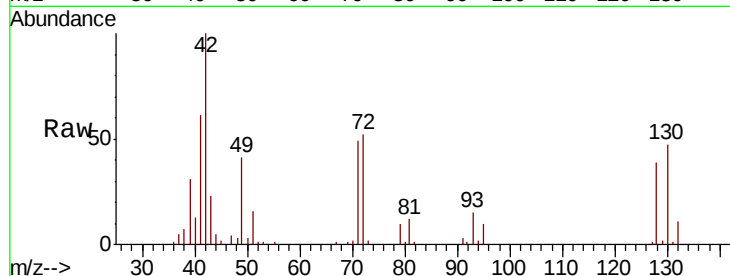
Tgt Ion: 42 Resp: 29371

Ion Ratio Lower Upper

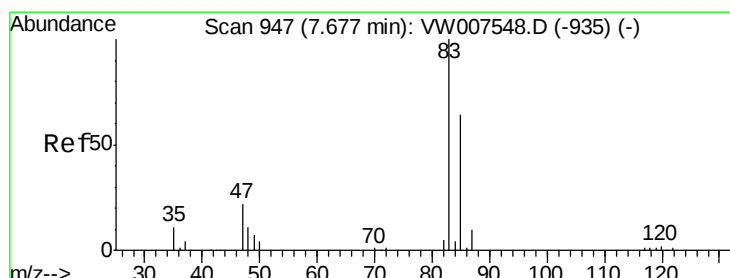
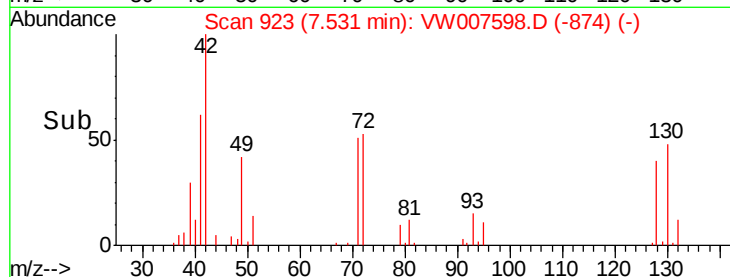
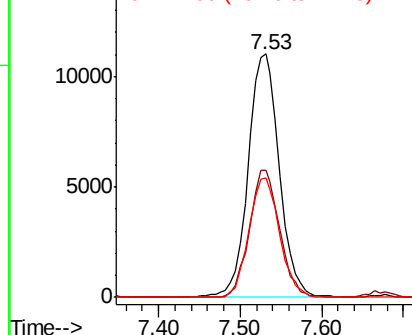
42 100

72 50.4 38.2 57.4

71 48.1 35.5 53.3



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



#30

Chloroform

Concen: 49.241 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW007598.D

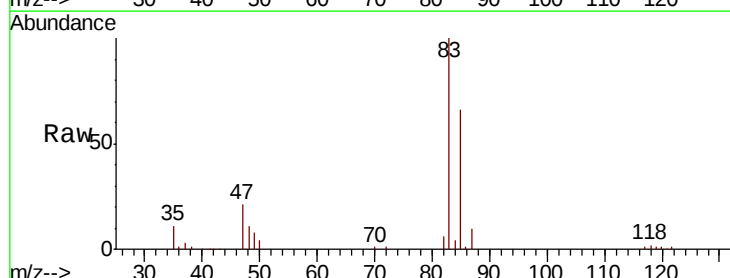
Acq: 15 Dec 2018 23:03

Tgt Ion: 83 Resp: 73823

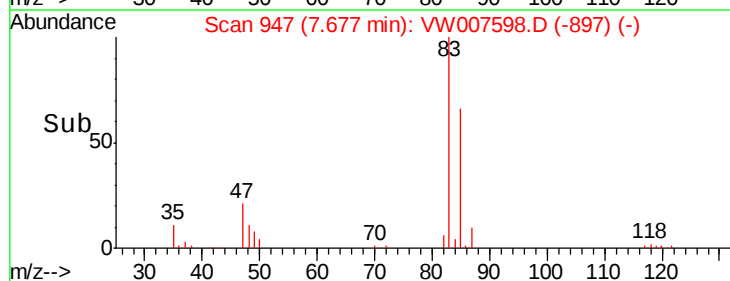
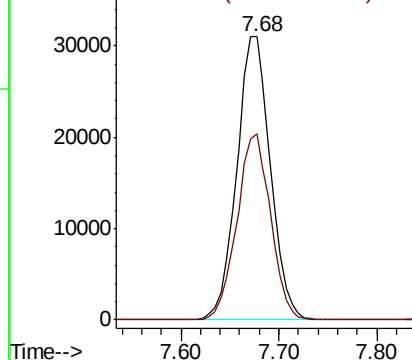
Ion Ratio Lower Upper

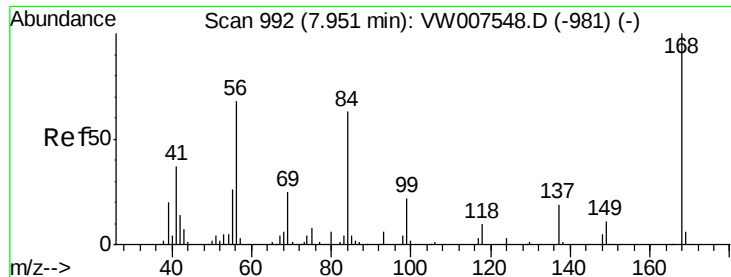
83 100

85 65.8 51.8 77.8



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

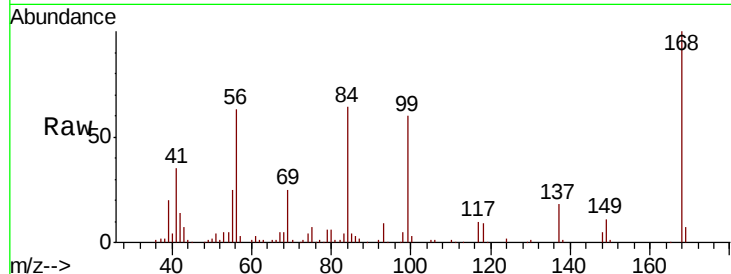




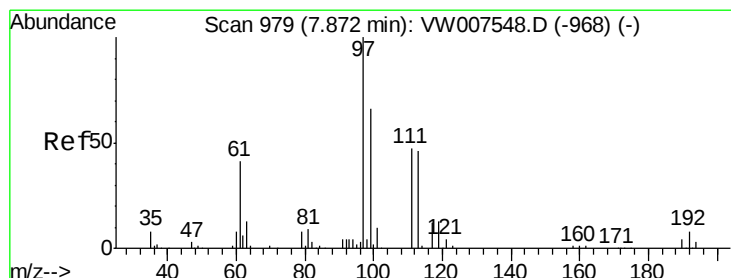
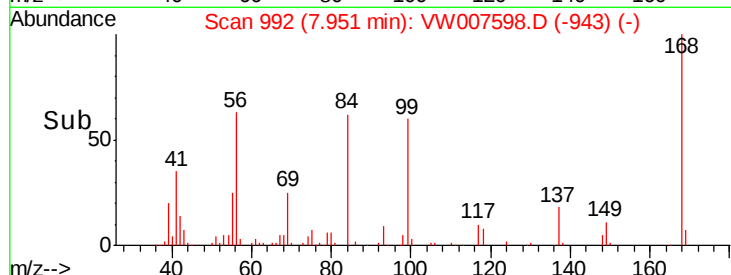
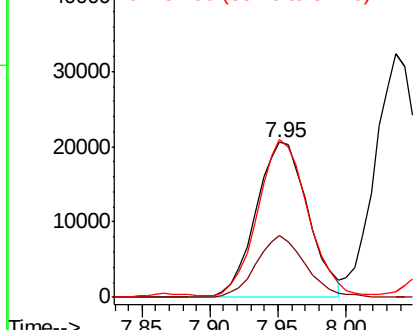
#31  
Cyclohexane  
Concen: 43.502 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

Tgt Ion: 56 Resp: 54985  
Ion Ratio Lower Upper  
56 100  
69 39.8 28.9 43.3  
84 100.1 71.8 107.6

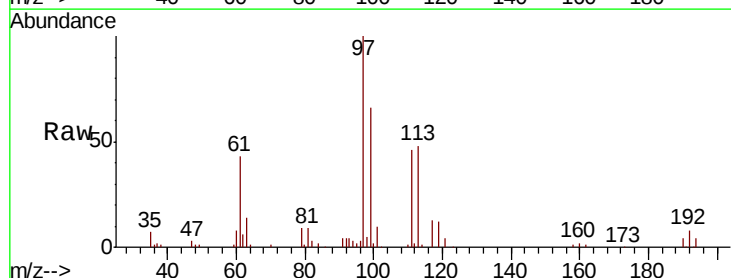


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

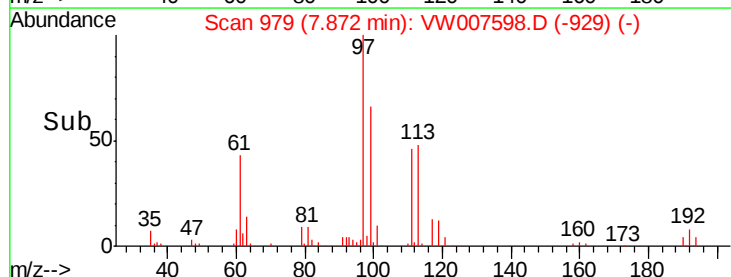
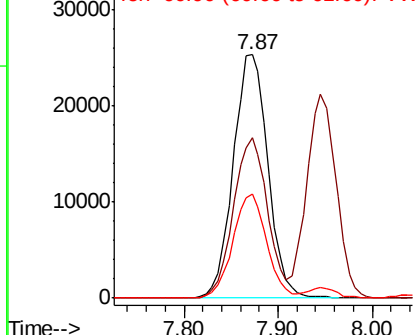


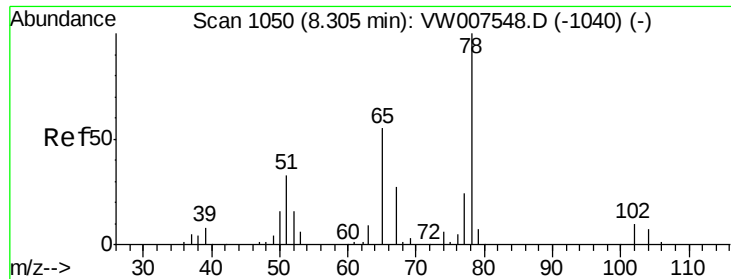
#32  
1,1,1-Trichloroethane  
Concen: 49.359 ug/l  
RT: 7.87 min Scan# 979  
Delta R.T. 0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 97 Resp: 64893  
Ion Ratio Lower Upper  
97 100  
99 64.7 51.1 76.7  
61 41.8 33.2 49.8



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

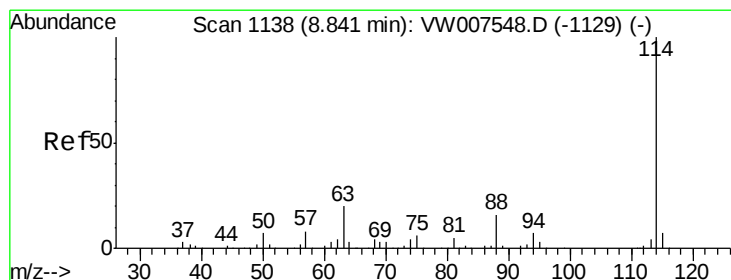
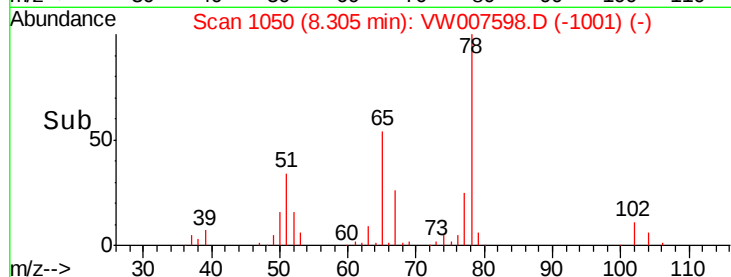
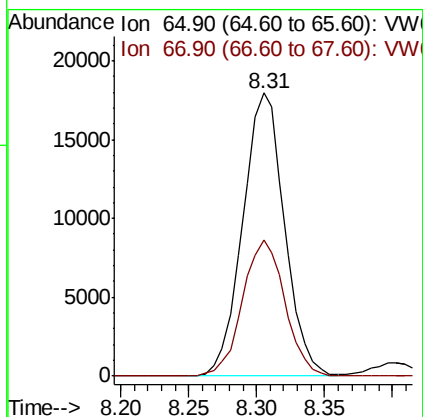
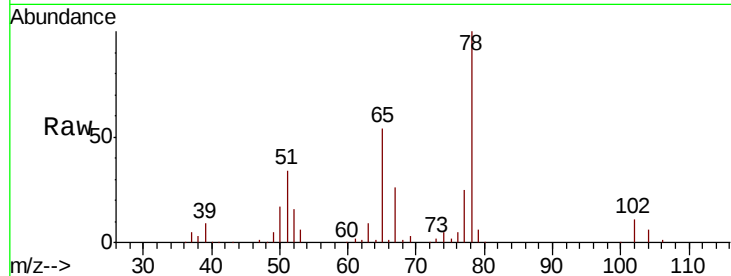




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.473 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

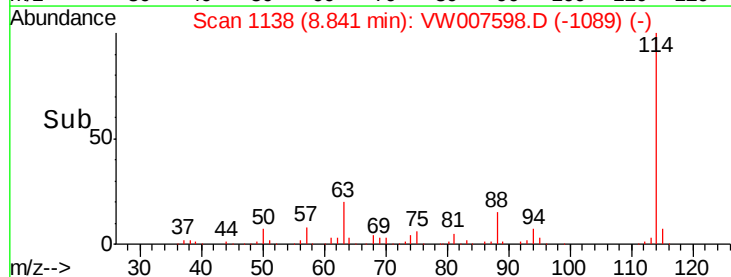
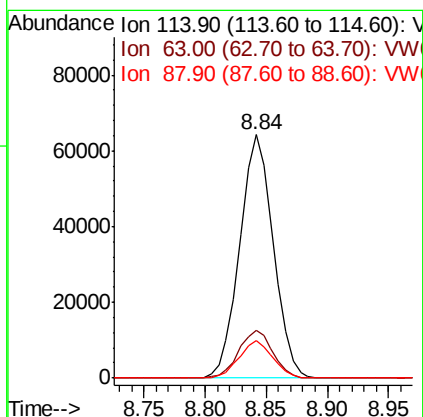
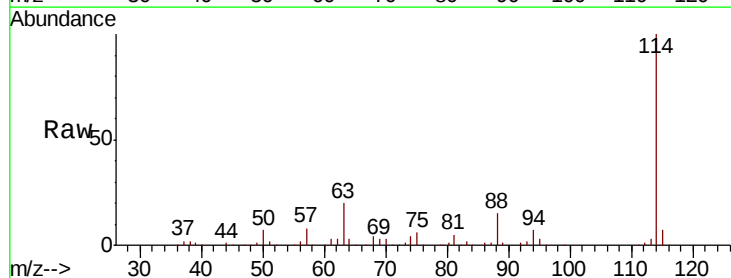
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

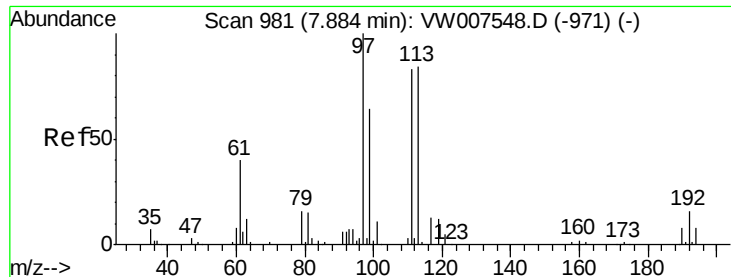
Tgt Ion: 65 Resp: 38626  
 Ion Ratio Lower Upper  
 65 100  
 67 48.6 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 114 Resp: 122617  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 39.6  
 88 15.4 0.0 31.4

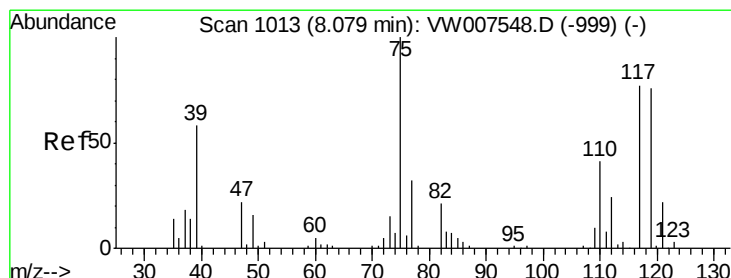
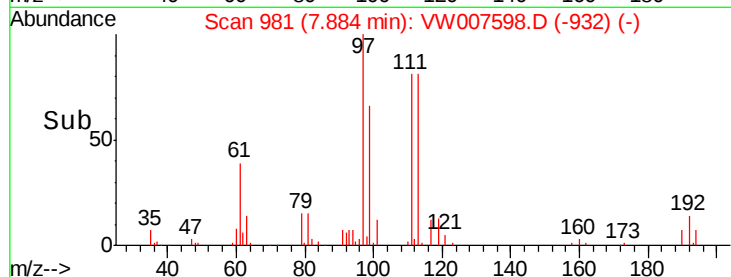
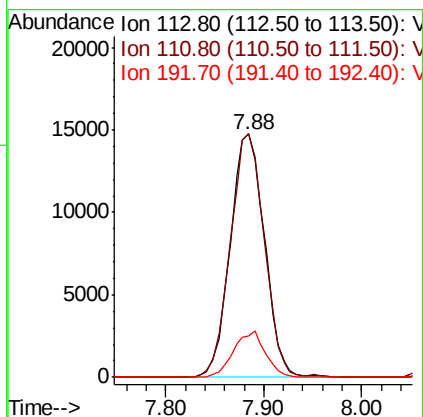
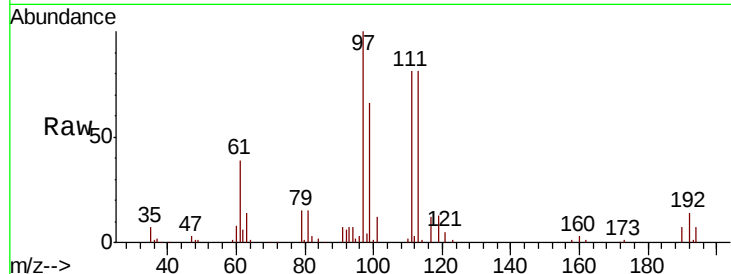




#35  
 Dibromofluoromethane  
 Concen: 48.229 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

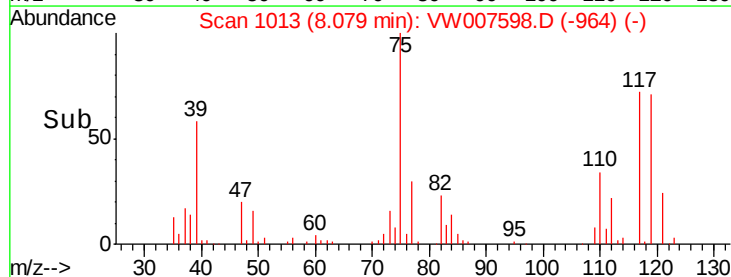
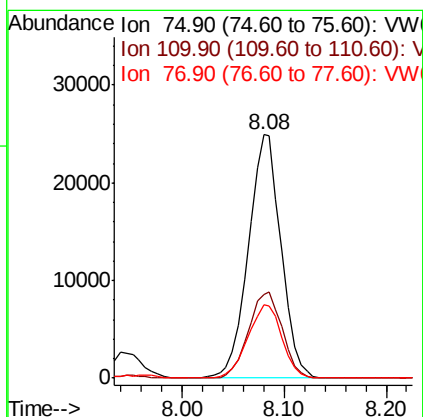
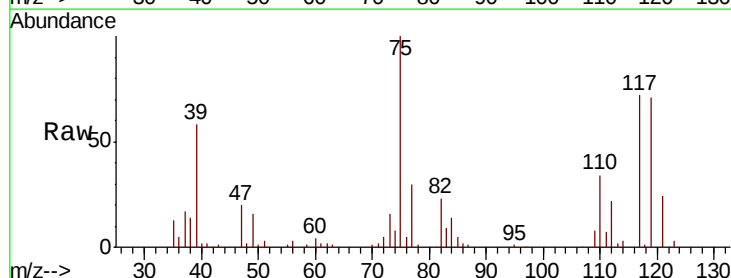
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

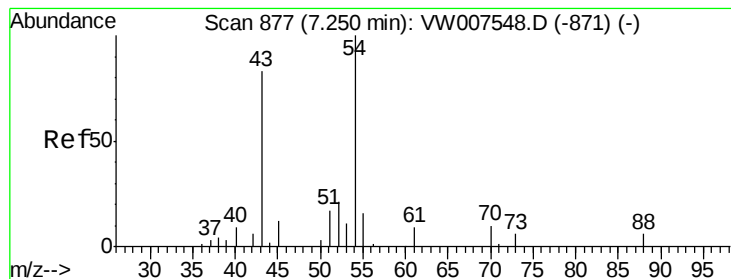
Tgt Ion: 113 Resp: 35798  
 Ion Ratio Lower Upper  
 113 100  
 111 99.5 81.1 121.7  
 192 17.7 14.6 21.8



#36  
 1,1-Dichloropropene  
 Concen: 49.770 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 75 Resp: 55670  
 Ion Ratio Lower Upper  
 75 100  
 110 36.4 18.5 55.5  
 77 31.3 25.6 38.4





#37

Ethyl Acetate

Concen: 48.350 ug/l

RT: 7.25 min Scan# 877

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampled :

BFB

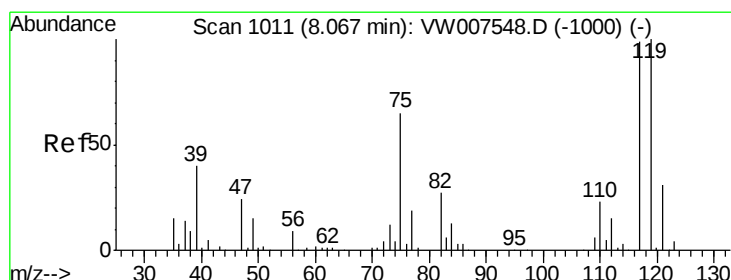
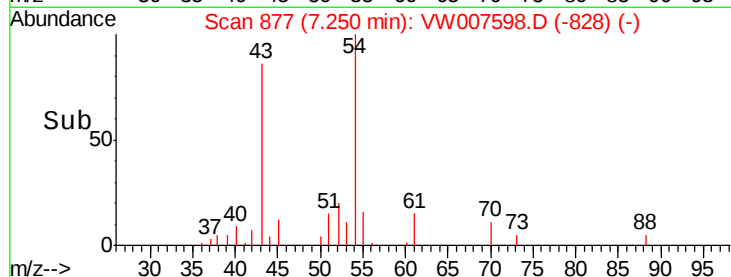
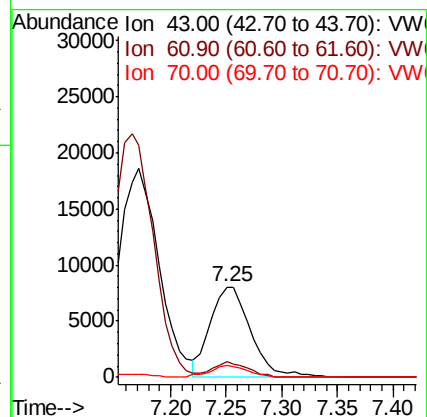
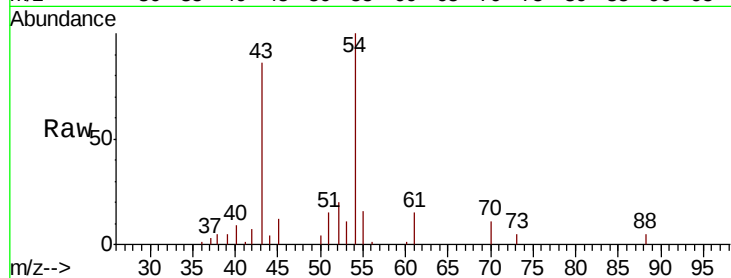
Tgt Ion: 43 Resp: 20115

Ion Ratio Lower Upper

43 100

61 15.5 12.1 18.1

70 12.7 10.0 15.0



#38

Carbon Tetrachloride

Concen: 51.074 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

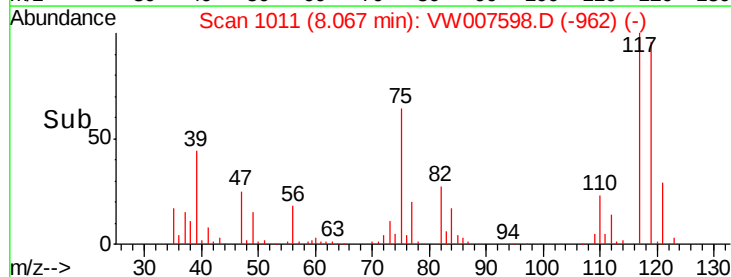
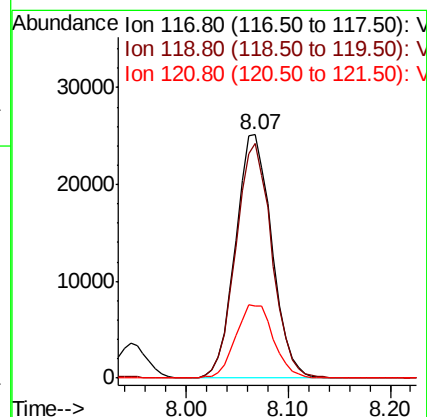
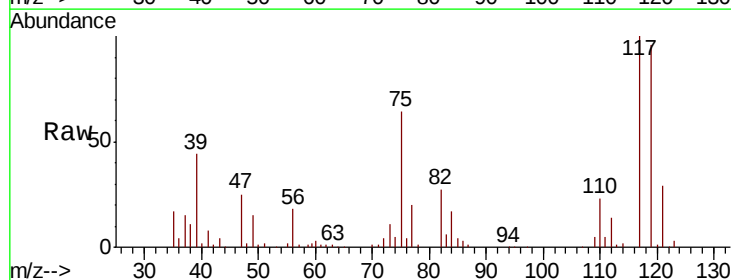
Tgt Ion: 117 Resp: 62161

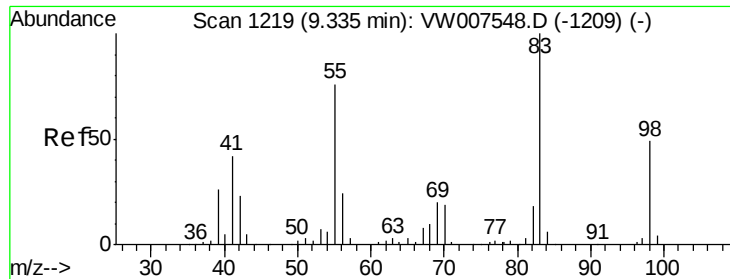
Ion Ratio Lower Upper

117 100

119 96.3 74.3 111.5

121 29.4 24.3 36.5





#39

Methylcyclohexane

Concen: 50.044 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampled :

BFB

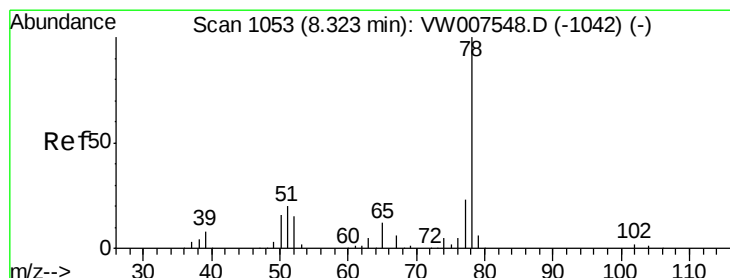
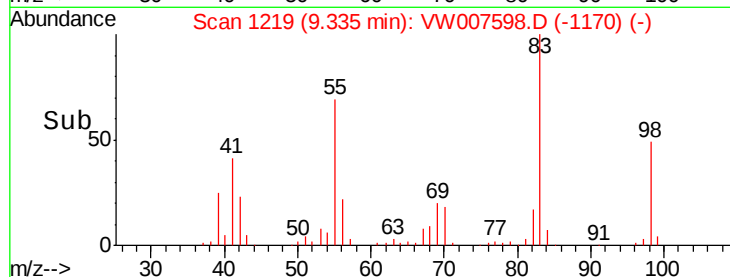
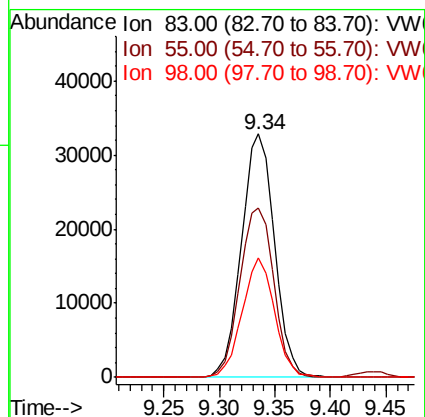
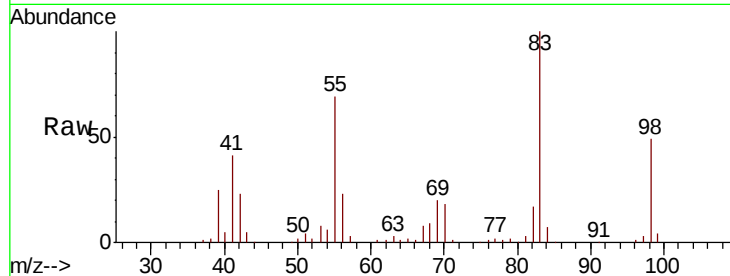
Tgt Ion: 83 Resp: 67782

Ion Ratio Lower Upper

83 100

55 69.3 62.8 94.2

98 49.3 42.2 63.2



#40

Benzene

Concen: 49.616 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW007598.D

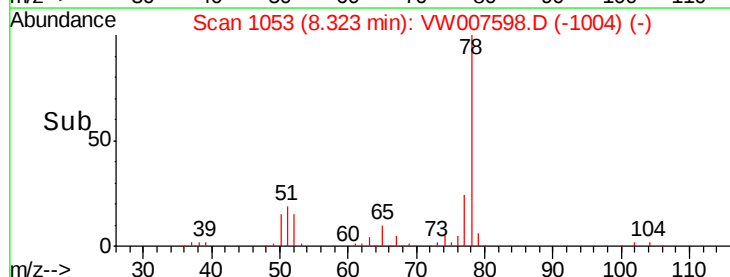
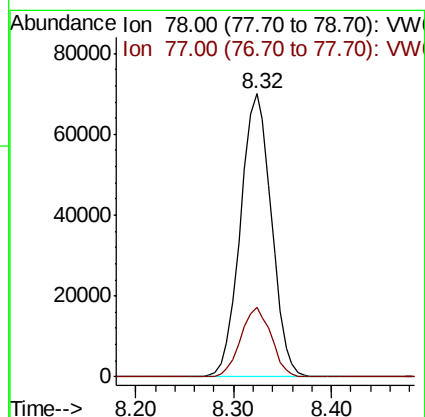
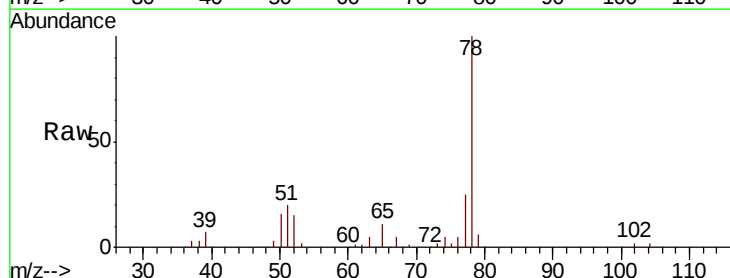
Acq: 15 Dec 2018 23:03

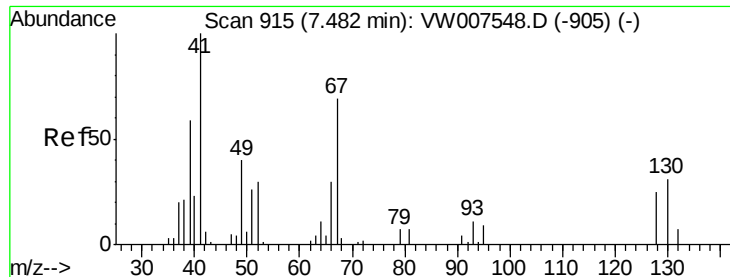
Tgt Ion: 78 Resp: 154018

Ion Ratio Lower Upper

78 100

77 24.6 18.8 28.2

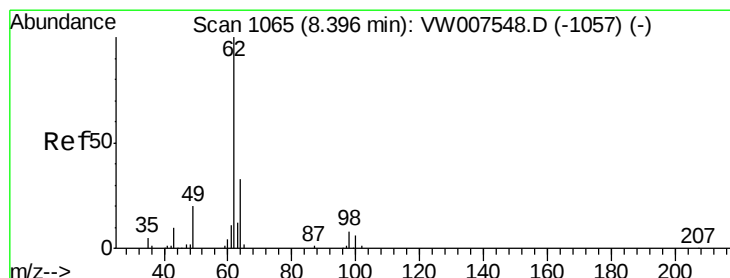
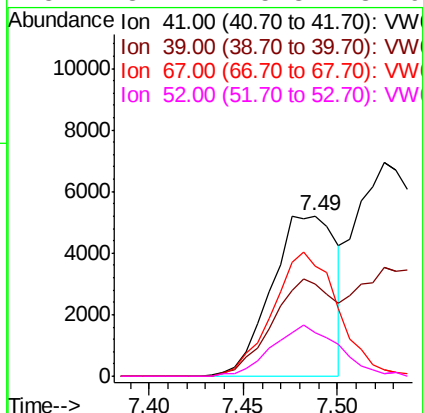
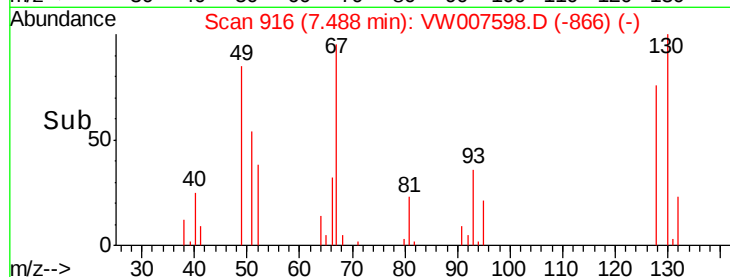
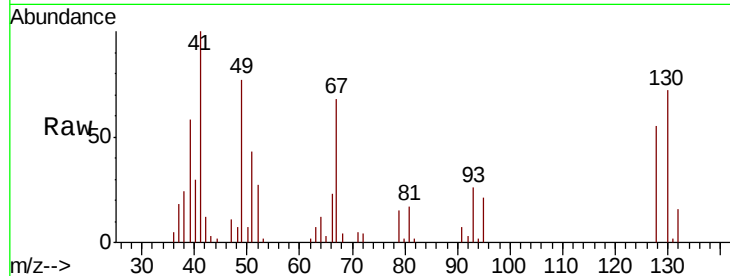




#41  
Methacrylonitrile  
Concen: 52.501 ug/l  
RT: 7.49 min Scan# 916  
Delta R.T. 0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

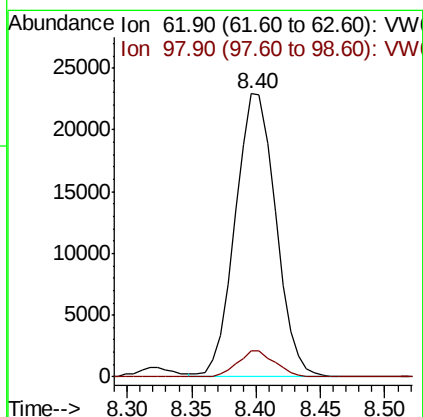
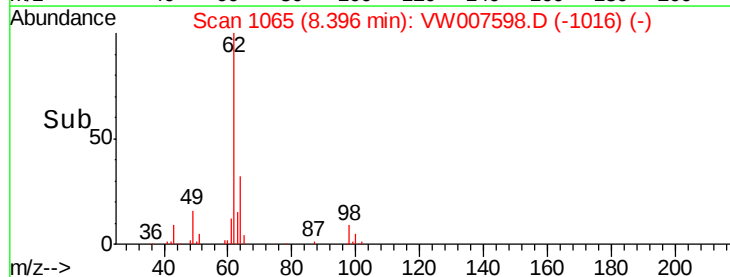
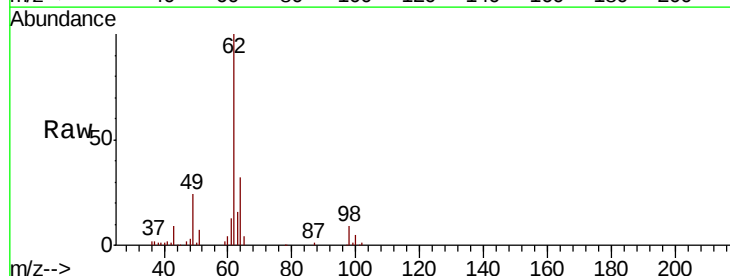
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

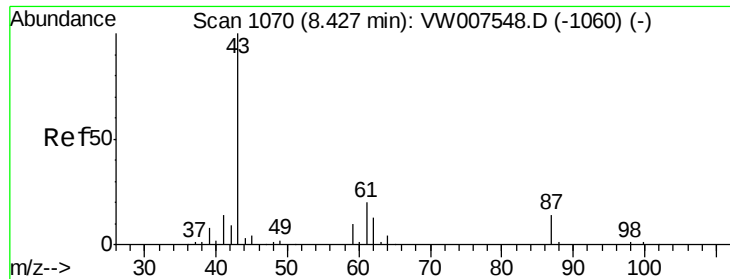
Tgt Ion: 41 Resp: 12438  
Ion Ratio Lower Upper  
41 100  
39 57.9 52.2 78.2  
67 77.9 60.5 90.7  
52 32.7 25.3 37.9



#42  
1,2-Dichloroethane  
Concen: 51.410 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 62 Resp: 50131  
Ion Ratio Lower Upper  
62 100  
98 8.6 0.0 17.6





#43

Isopropyl Acetate

Concen: 50.596 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampled :

BFB

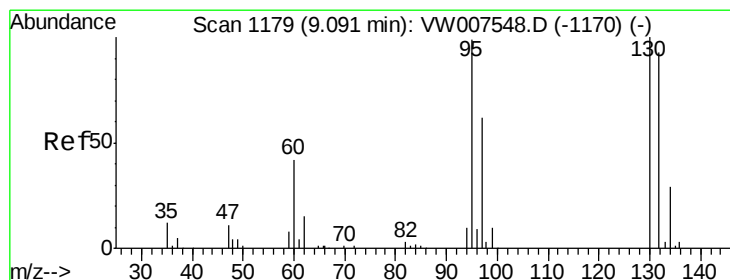
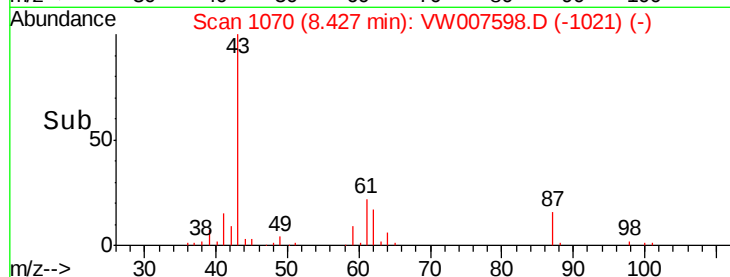
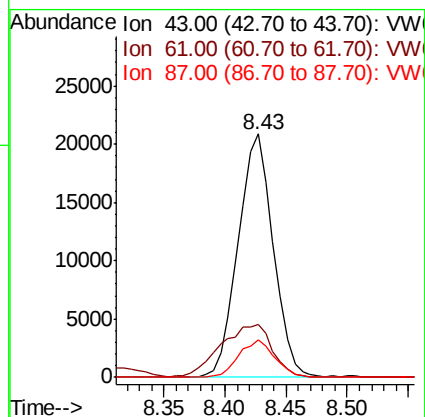
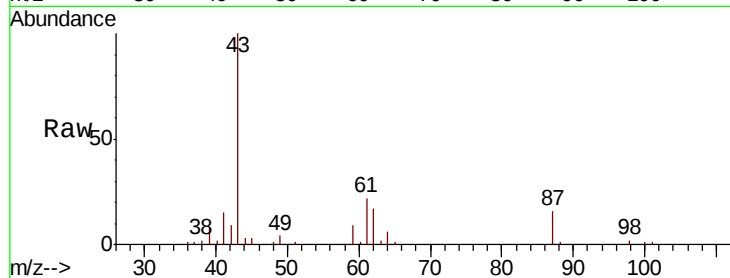
Tgt Ion: 43 Resp: 41579

Ion Ratio Lower Upper

43 100

61 32.0 25.3 37.9

87 15.7 11.8 17.8



#44

Trichloroethene

Concen: 50.392 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW007598.D

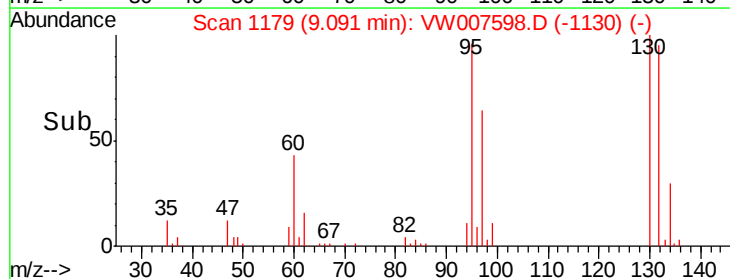
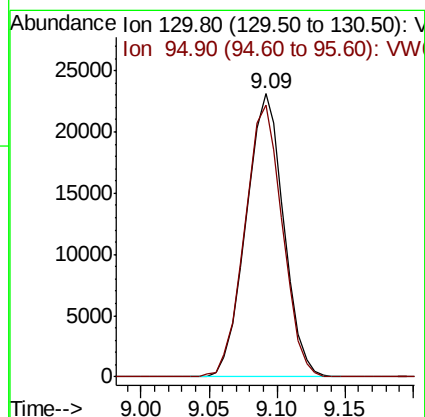
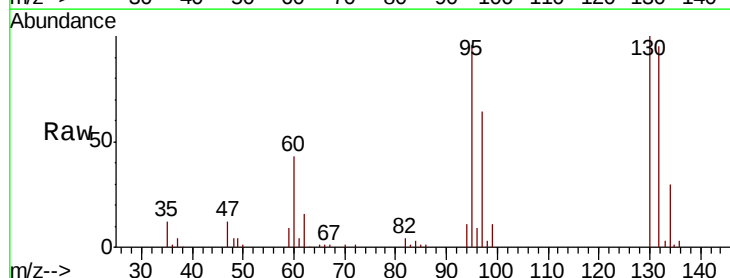
Acq: 15 Dec 2018 23:03

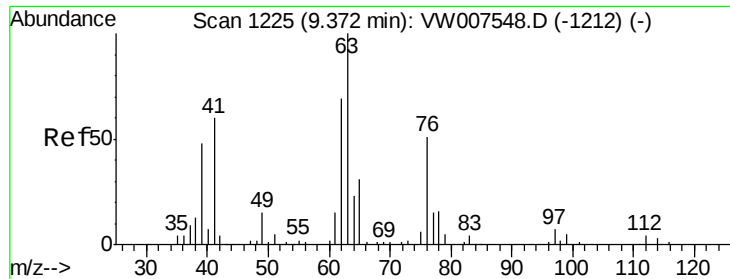
Tgt Ion: 130 Resp: 44669

Ion Ratio Lower Upper

130 100

95 96.1 0.0 193.2

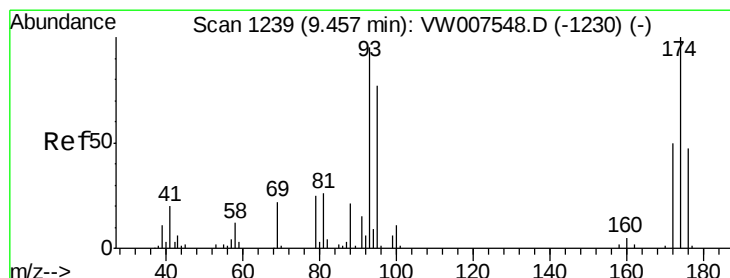
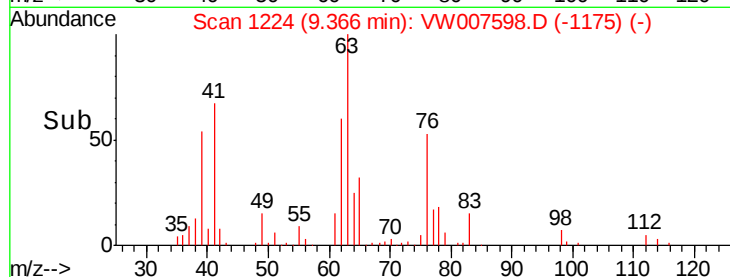
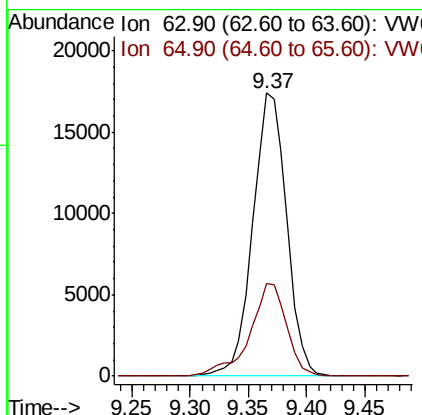
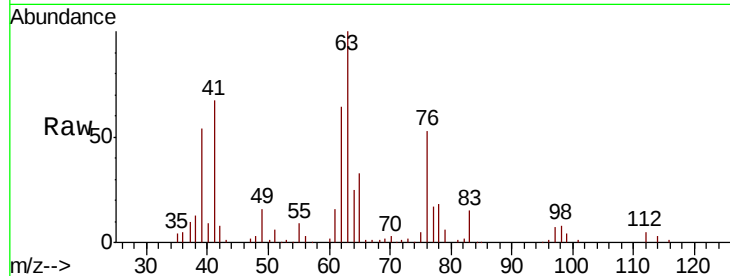




#45  
 1,2-Dichloropropane  
 Concen: 49.146 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

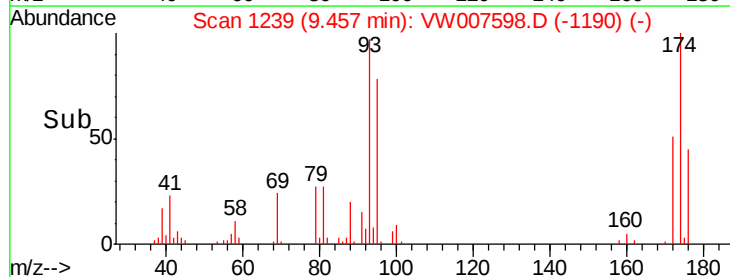
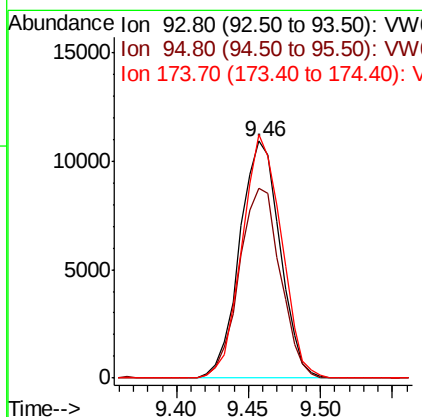
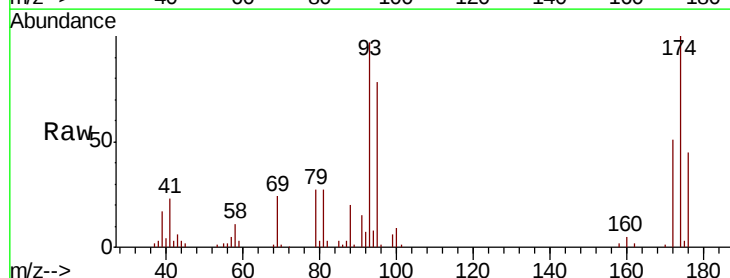
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

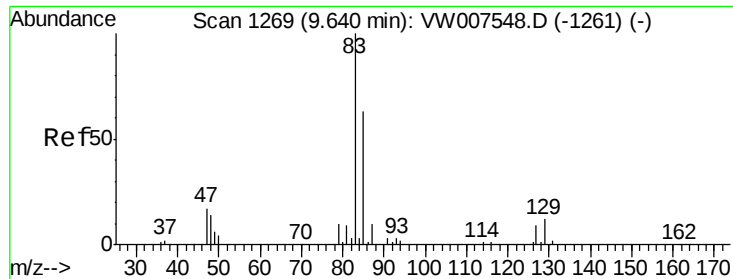
Tgt Ion: 63 Resp: 35304  
 Ion Ratio Lower Upper  
 63 100  
 65 32.8 24.4 36.6



#46  
 Dibromomethane  
 Concen: 51.814 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 93 Resp: 21137  
 Ion Ratio Lower Upper  
 93 100  
 95 81.9 68.0 102.0  
 174 100.4 83.2 124.8

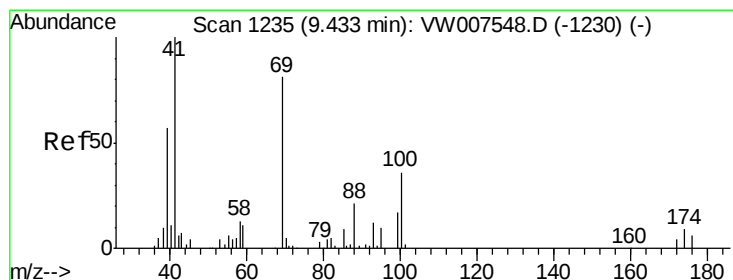
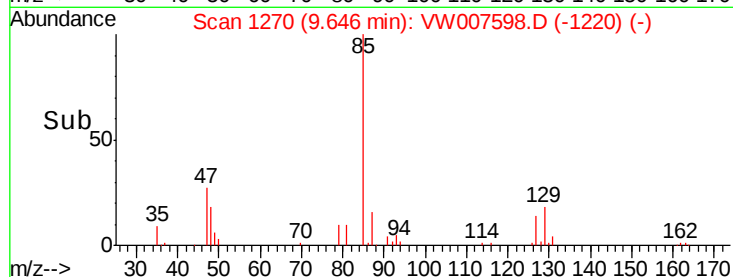
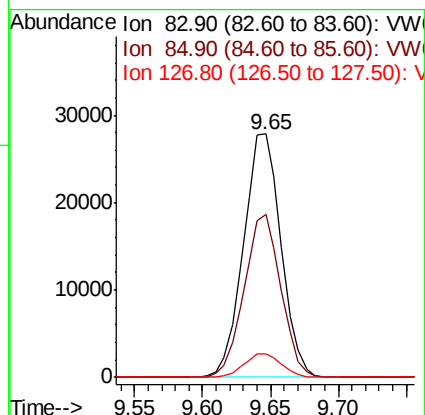
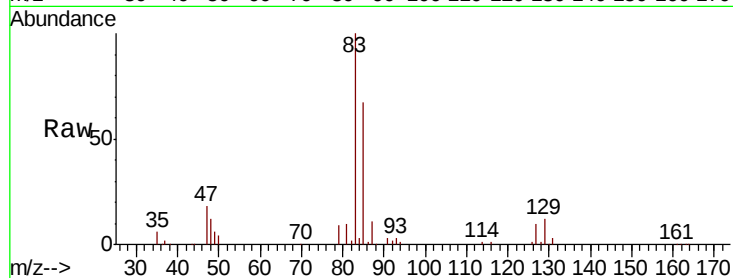




#47  
Bromodichloromethane  
Concen: 50.240 ug/l  
RT: 9.65 min Scan# 1270  
Delta R.T. 0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

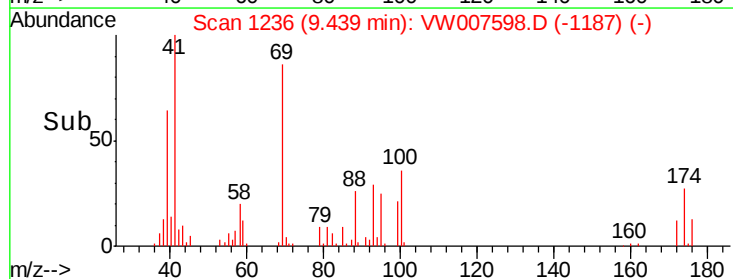
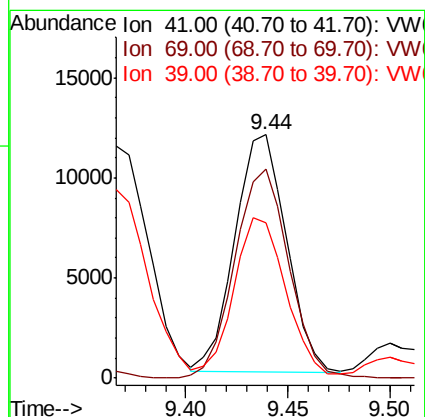
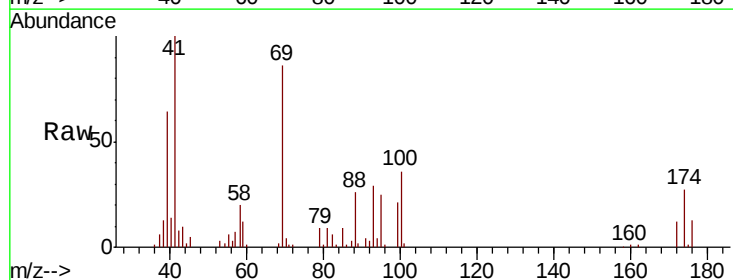
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

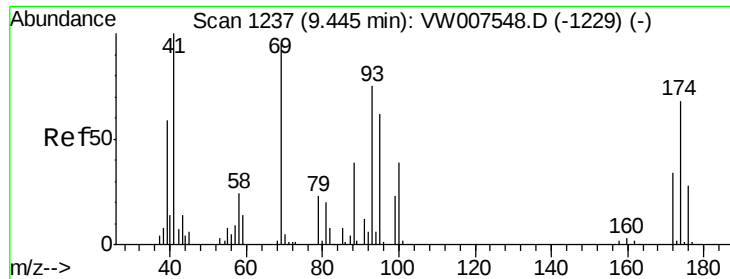
Tgt Ion: 83 Resp: 53758  
Ion Ratio Lower Upper  
83 100  
85 66.7 47.6 71.4  
127 9.6 6.7 10.1



#48  
Methyl methacrylate  
Concen: 49.584 ug/l  
RT: 9.44 min Scan# 1236  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 41 Resp: 20927  
Ion Ratio Lower Upper  
41 100  
69 92.0 69.8 104.8  
39 69.0 50.9 76.3





#49

1,4-Dioxane

Concen: 1119.494 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

BFB

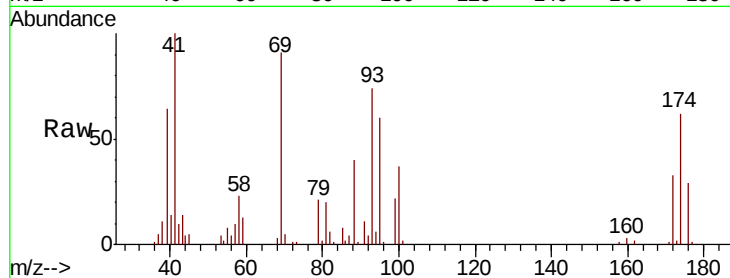
Tgt Ion: 88 Resp: 7410

Ion Ratio Lower Upper

88 100

43 32.7 25.0 37.4

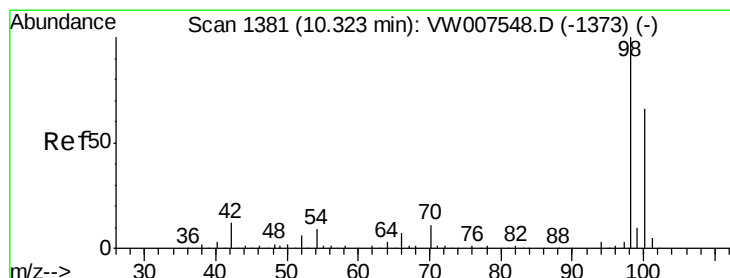
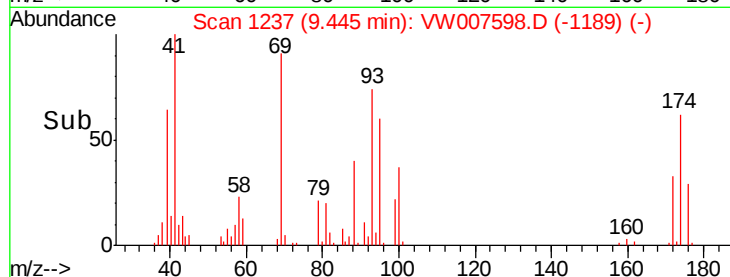
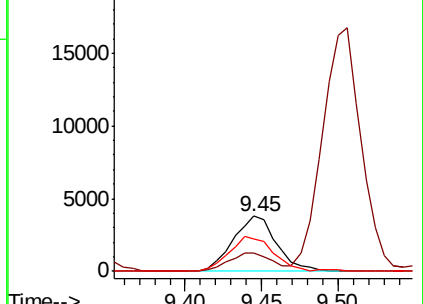
58 64.1 51.4 77.2



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 47.564 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007598.D

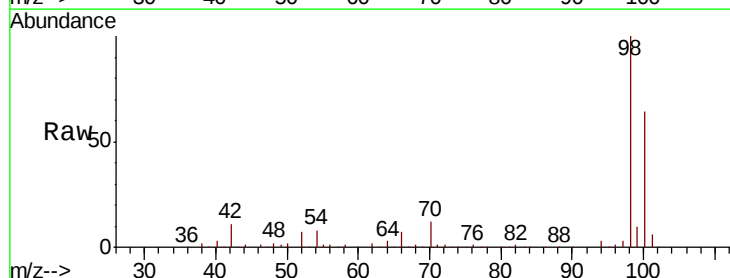
Acq: 15 Dec 2018 23:03

Tgt Ion: 98 Resp: 132372

Ion Ratio Lower Upper

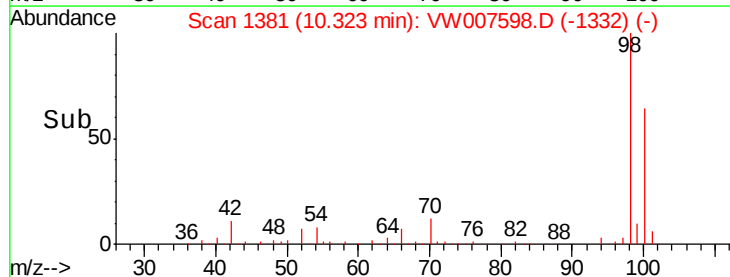
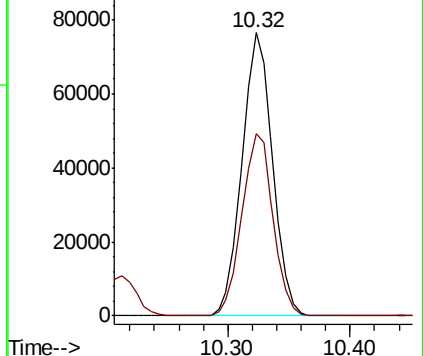
98 100

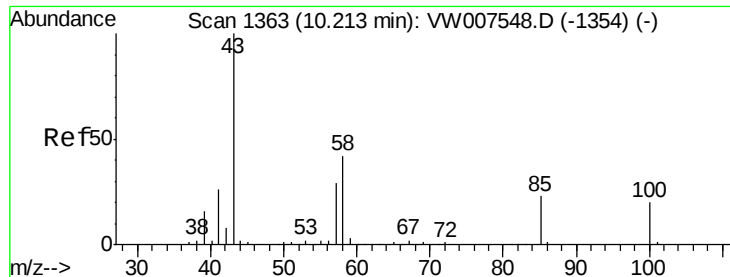
100 65.5 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 267.498 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampled :

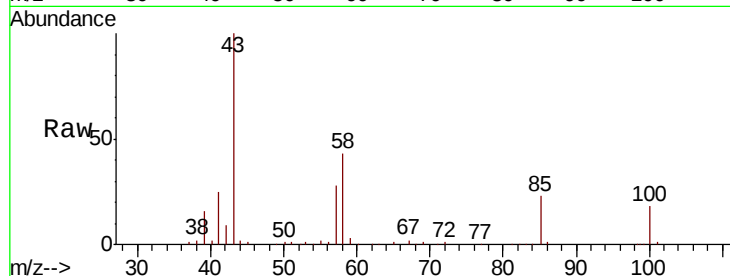
BFB

Tgt Ion: 43 Resp: 103868

Ion Ratio Lower Upper

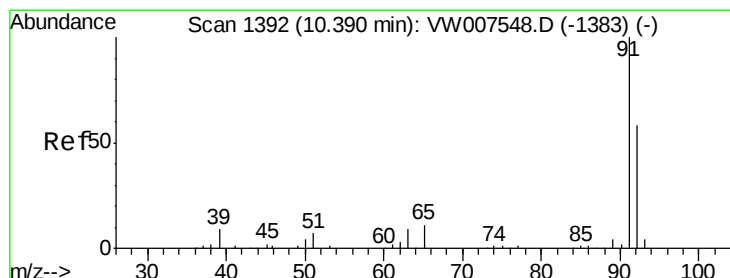
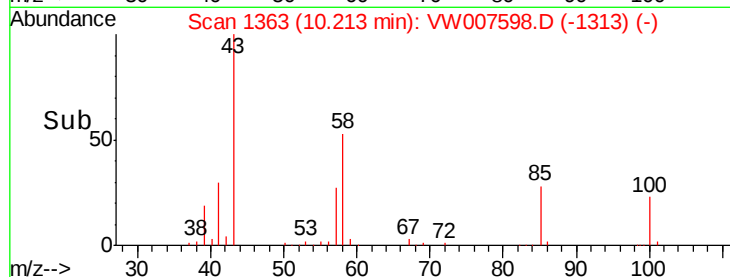
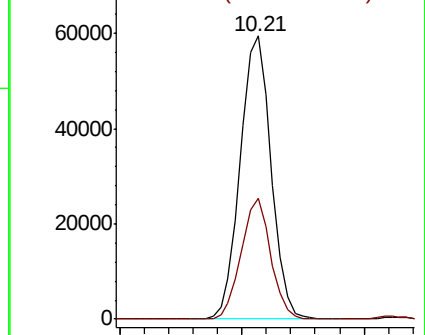
43 100

58 40.9 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 50.279 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007598.D

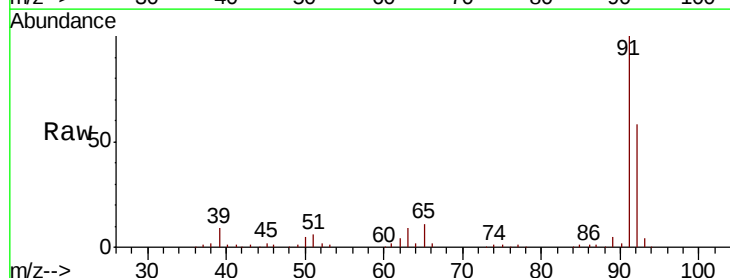
Acq: 15 Dec 2018 23:03

Tgt Ion: 92 Resp: 101004

Ion Ratio Lower Upper

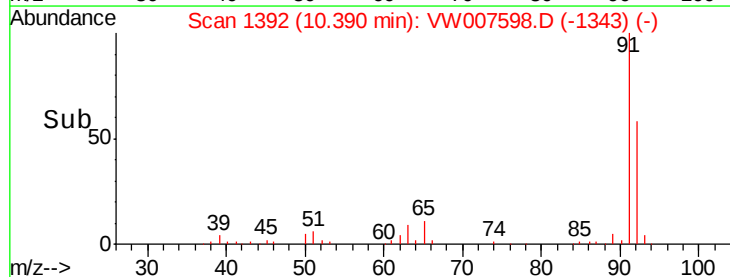
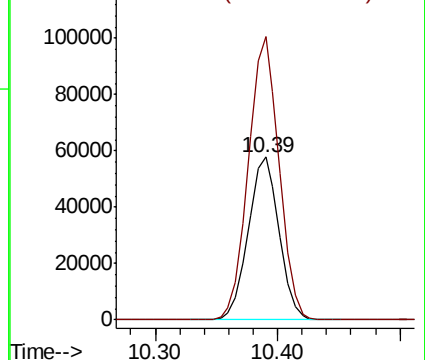
92 100

91 173.6 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

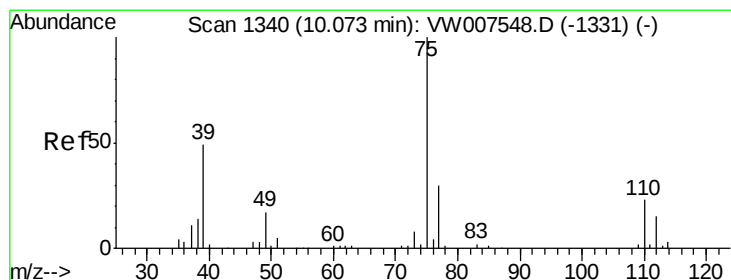
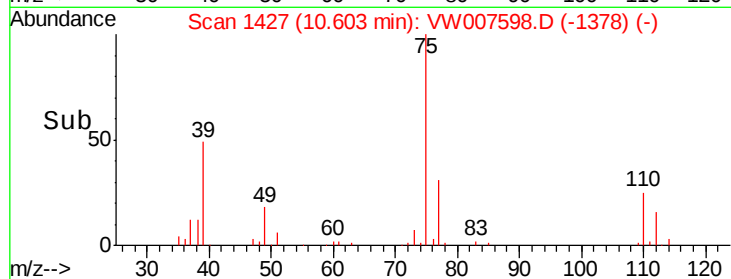
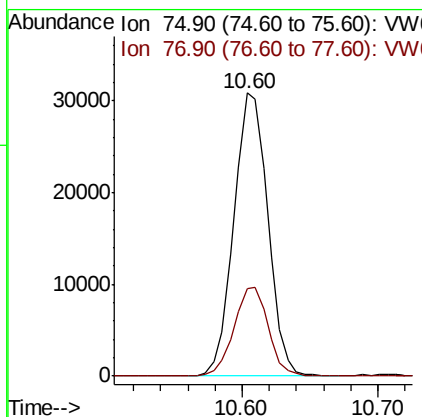
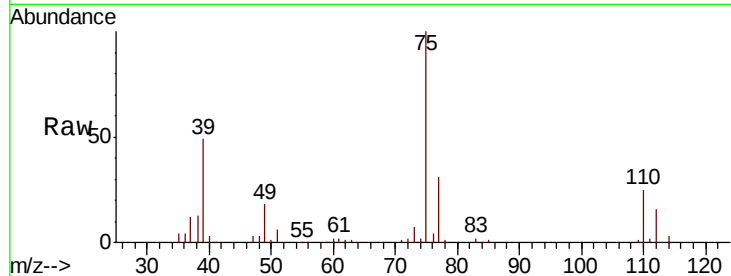




#53  
 t-1,3-Dichloropropene  
 Concen: 51.852 ug/l  
 RT: 10.60 min Scan# 1427  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

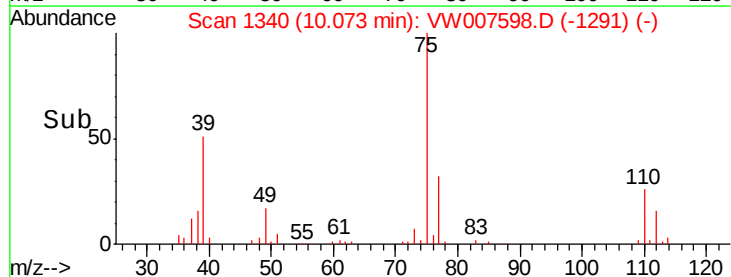
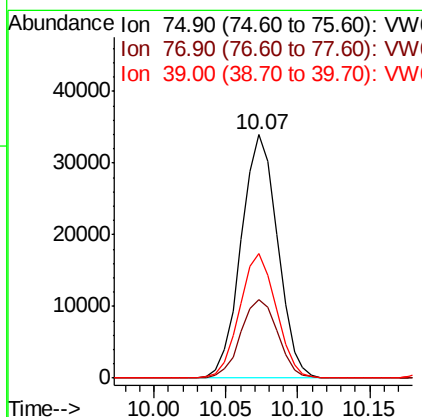
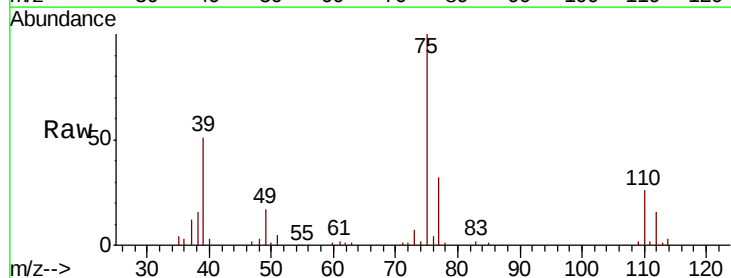
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

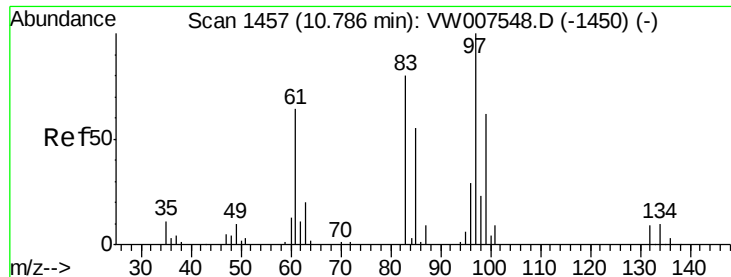
Tgt Ion: 75 Resp: 53865  
 Ion Ratio Lower Upper  
 75 100  
 77 31.0 26.2 39.4



#54  
 cis-1,3-Dichloropropene  
 Concen: 49.736 ug/l  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 75 Resp: 59727  
 Ion Ratio Lower Upper  
 75 100  
 77 32.0 24.8 37.2  
 39 51.2 40.9 61.3

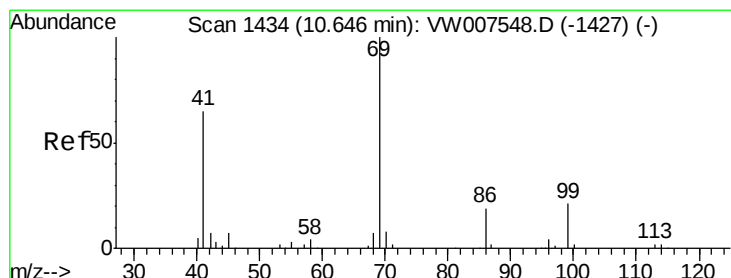
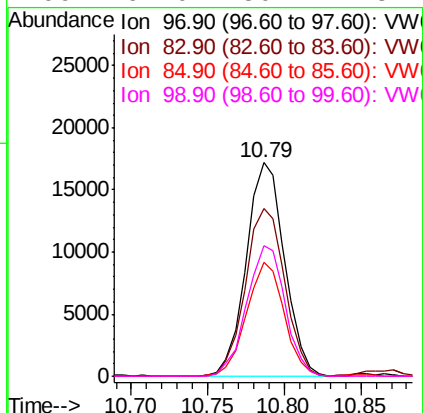
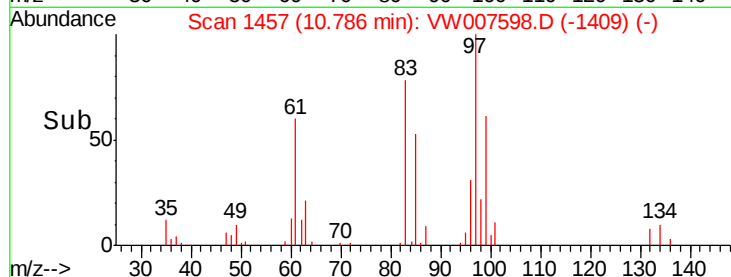
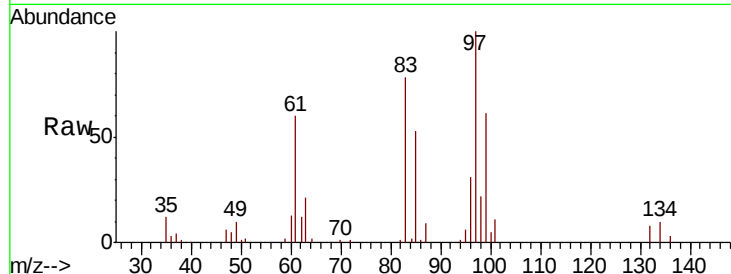




#55  
 1,1,2-Trichloroethane  
 Concen: 53.816 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

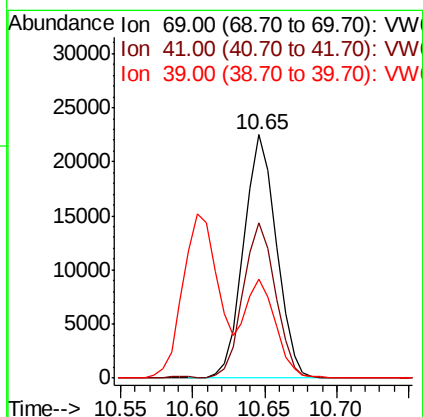
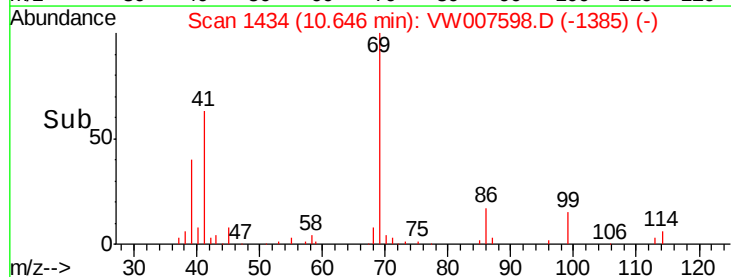
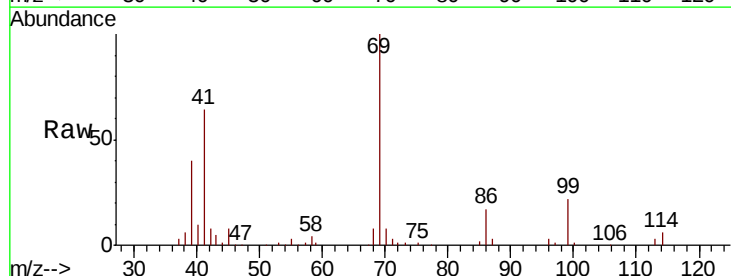
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

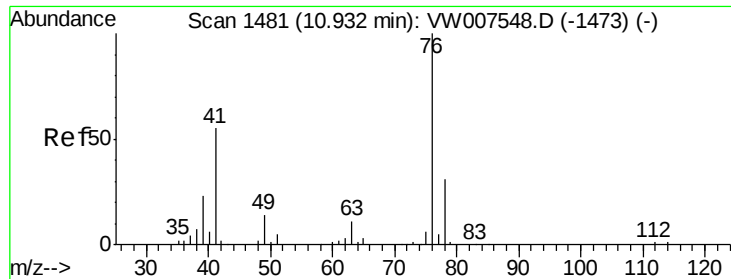
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 29879 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 78.3  | 62.1  | 93.1  |
| 85       | 53.1  | 44.2  | 66.4  |
| 99       | 61.0  | 50.2  | 75.4  |



#56  
 Ethyl methacrylate  
 Concen: 53.041 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 35396 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 63.5  | 51.0  | 76.6  |
| 39       | 38.8  | 30.8  | 46.2  |

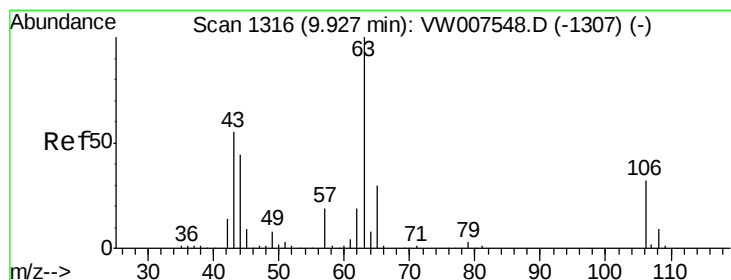
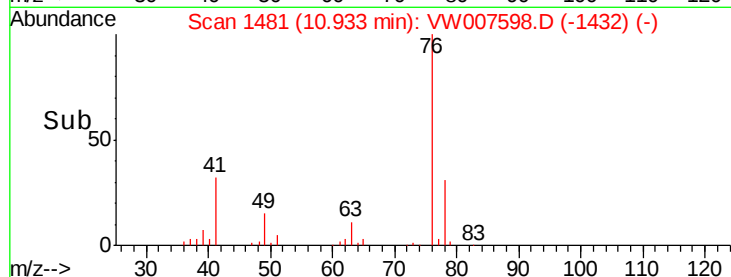
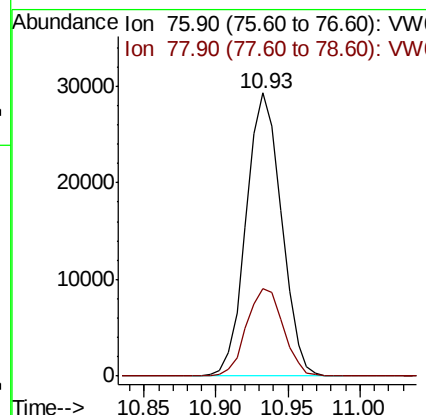
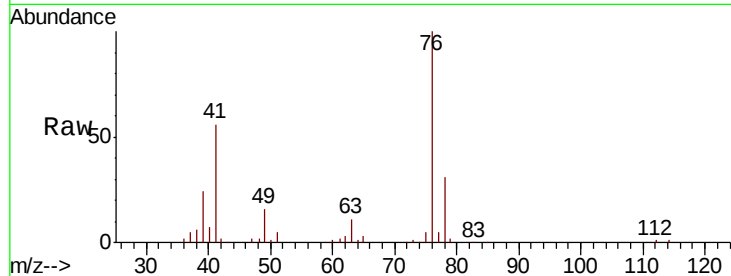




#57  
 1,3-Dichloropropane  
 Concen: 54.535 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

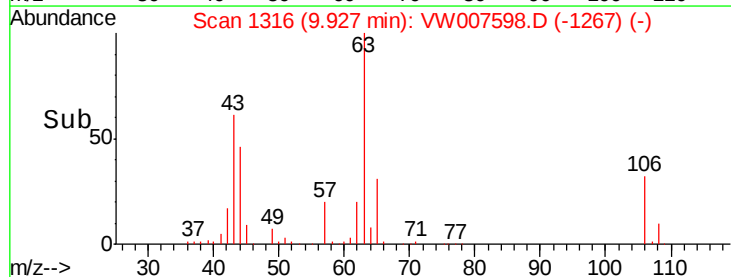
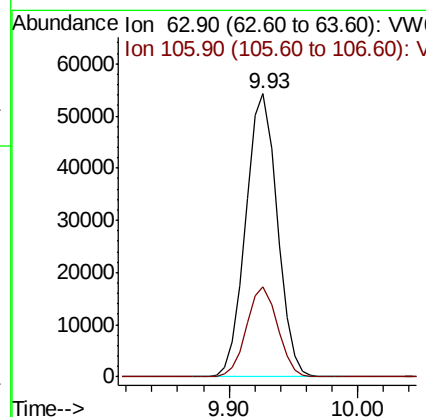
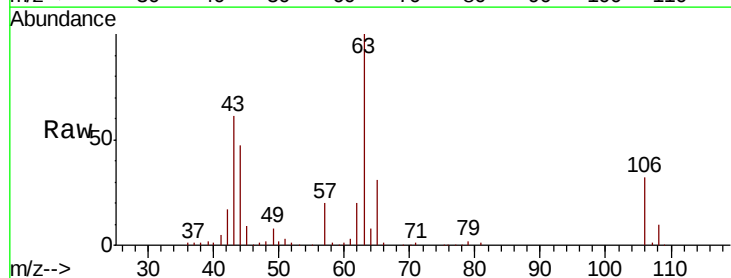
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

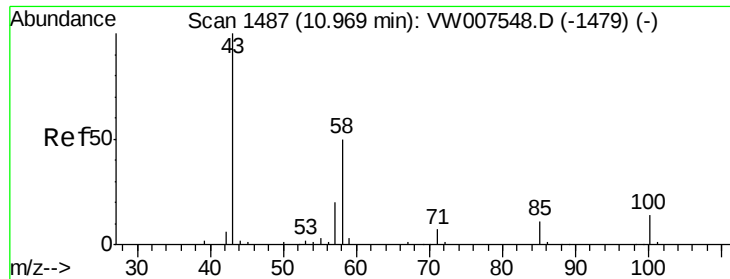
Tgt Ion: 76 Resp: 49697  
 Ion Ratio Lower Upper  
 76 100  
 78 32.2 26.2 39.4



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 298.428 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 63 Resp: 91838  
 Ion Ratio Lower Upper  
 63 100  
 106 31.4 25.0 37.6

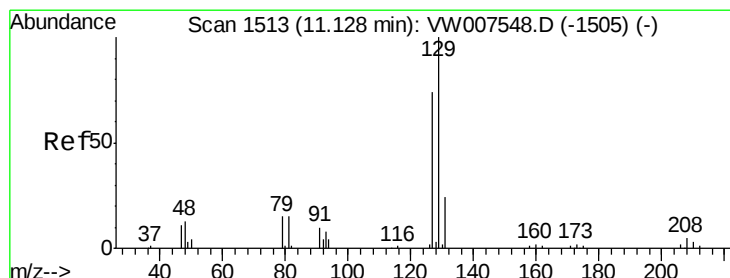
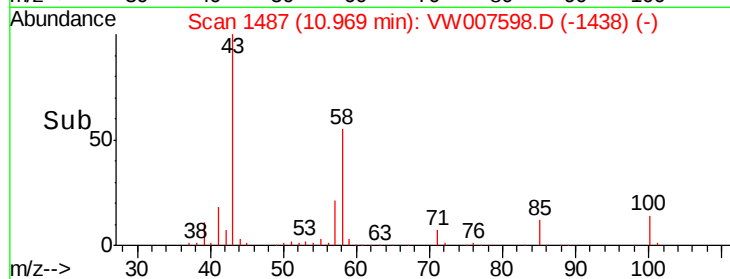
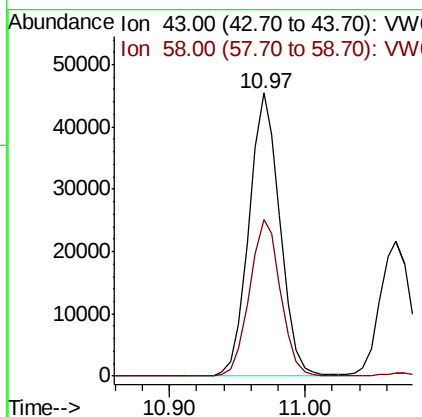
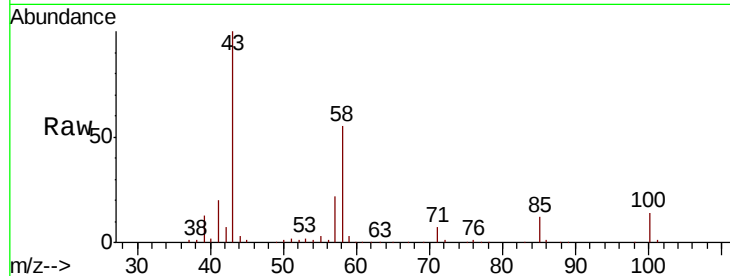




#59  
2-Hexanone  
Concen: 279.467 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

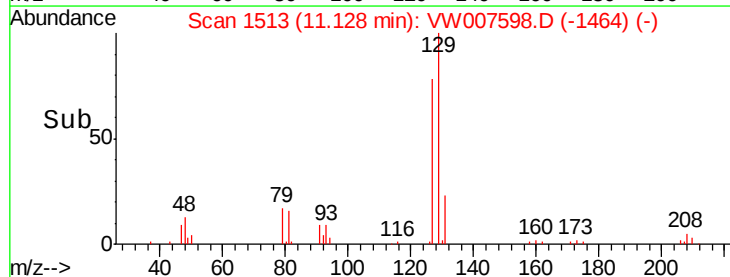
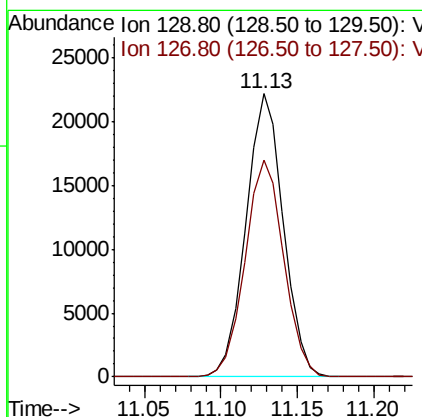
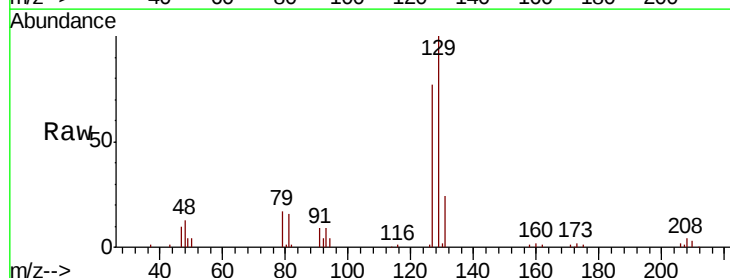
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

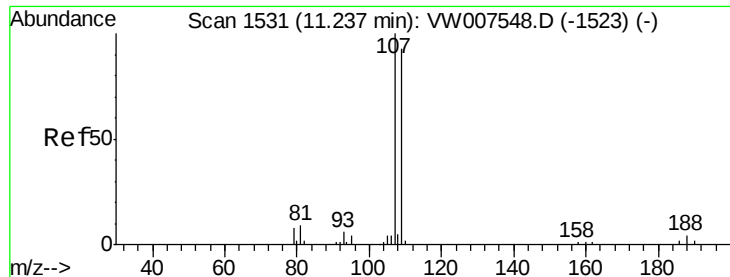
Tgt Ion: 43 Resp: 72358  
Ion Ratio Lower Upper  
43 100  
58 55.4 27.1 81.3



#60  
Dibromochloromethane  
Concen: 53.598 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 129 Resp: 37554  
Ion Ratio Lower Upper  
129 100  
127 79.3 38.1 114.3

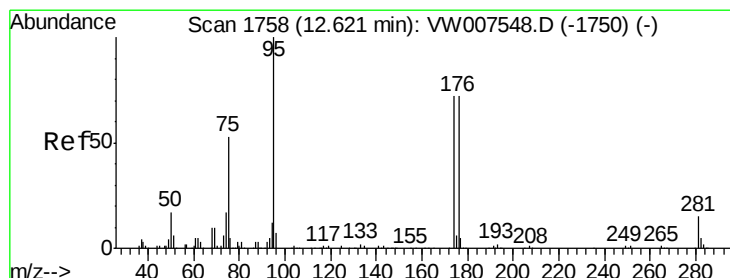
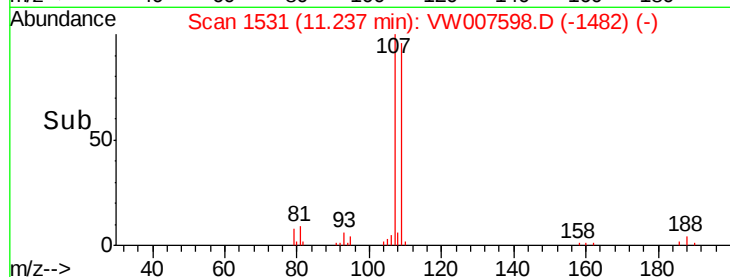
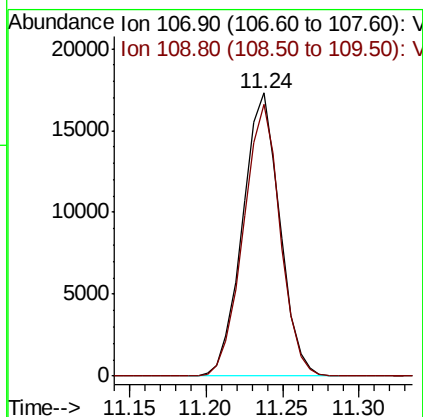
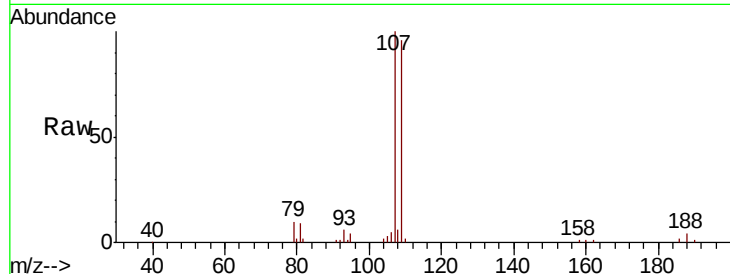




#61  
 1,2-Dibromoethane  
 Concen: 53.271 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

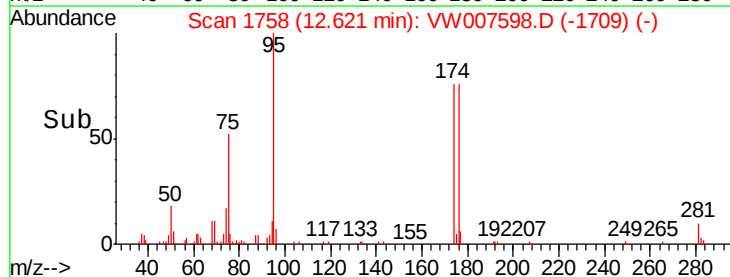
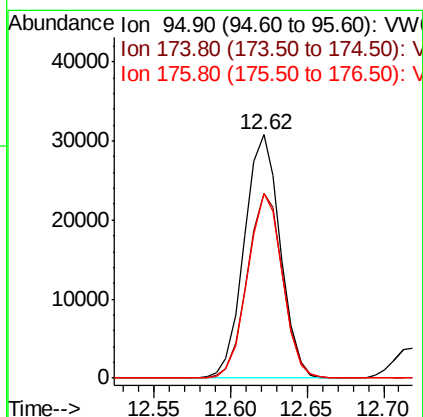
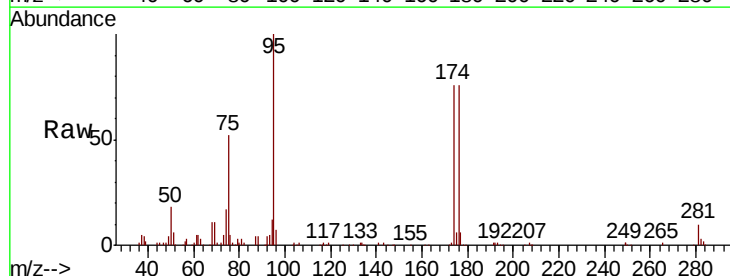
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

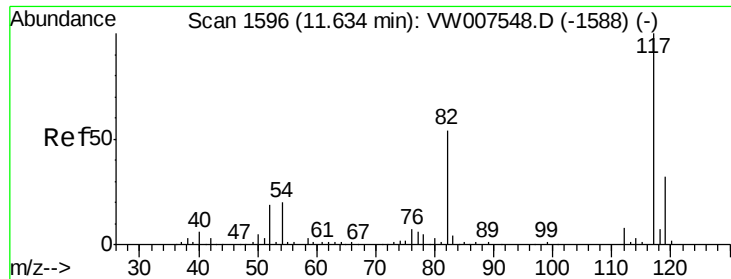
Tgt Ion: 107 Resp: 29228  
 Ion Ratio Lower Upper  
 107 100  
 109 94.7 79.1 118.7



#62  
 4-Bromofluorobenzene  
 Concen: 48.987 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 95 Resp: 50126  
 Ion Ratio Lower Upper  
 95 100  
 174 75.0 0.0 147.2  
 176 73.7 0.0 138.8

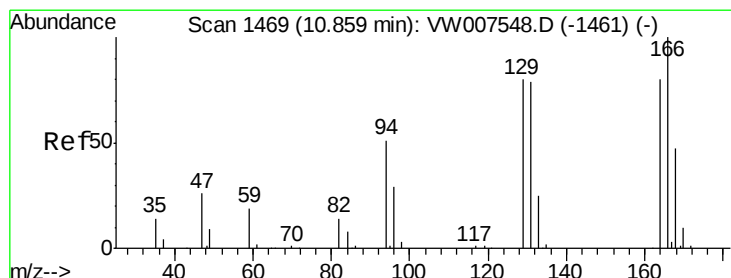
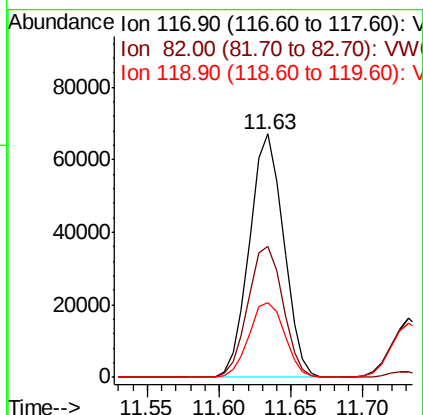
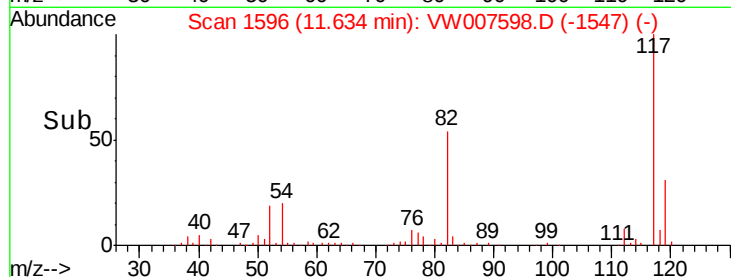
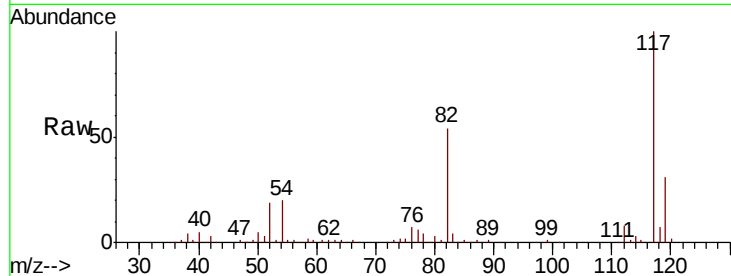




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

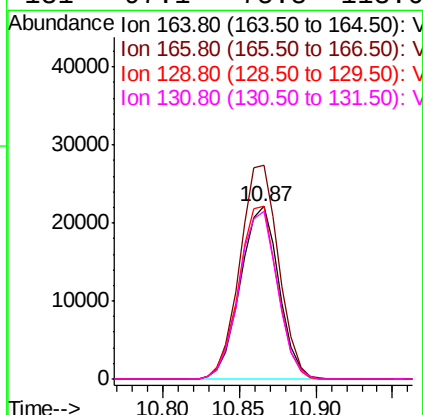
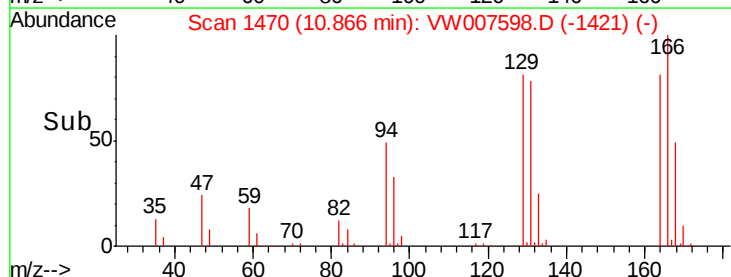
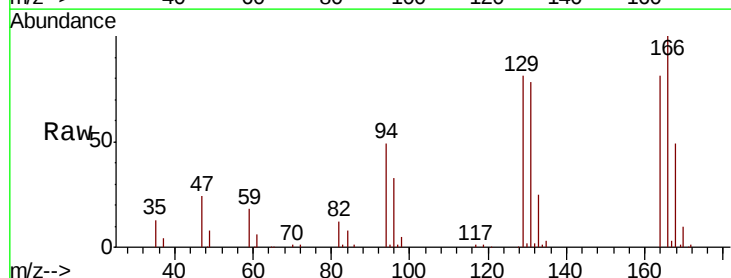
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

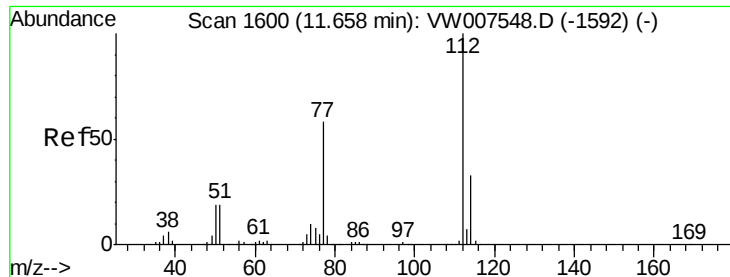
Tgt Ion:117 Resp: 110286  
Ion Ratio Lower Upper  
117 100  
82 53.8 42.3 63.5  
119 30.9 23.0 34.6



#64  
Tetrachloroethene  
Concen: 48.747 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion:164 Resp: 38661  
Ion Ratio Lower Upper  
164 100  
166 123.9 107.9 161.9  
129 100.1 73.4 110.2  
131 97.1 75.8 113.6

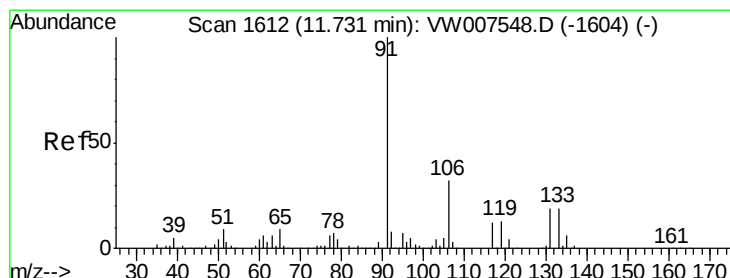
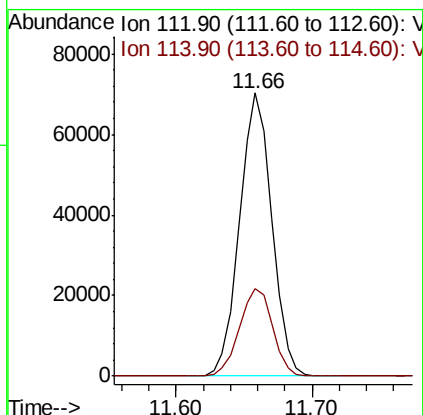
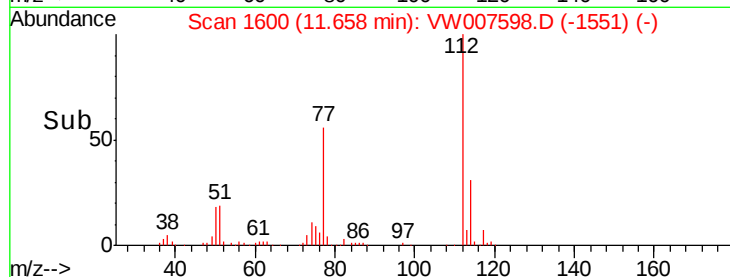
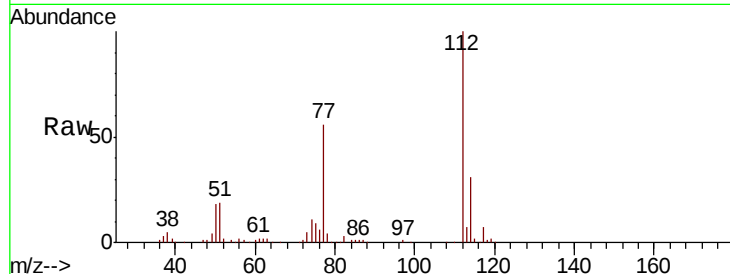




#65  
Chlorobenzene  
Concen: 50.524 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

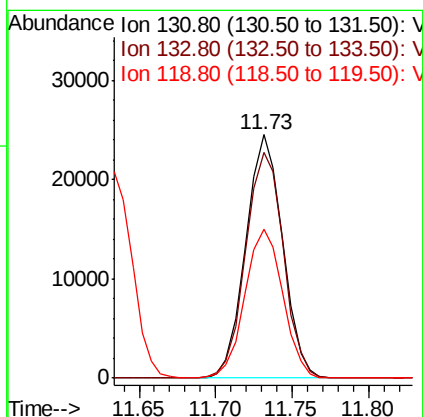
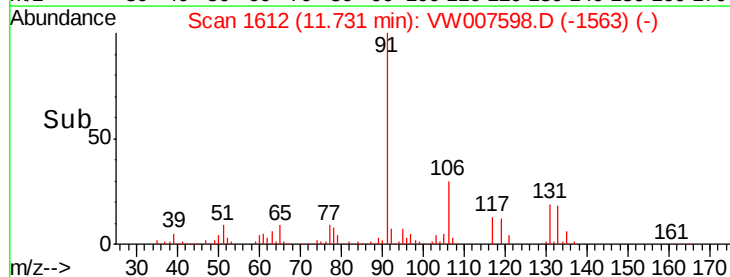
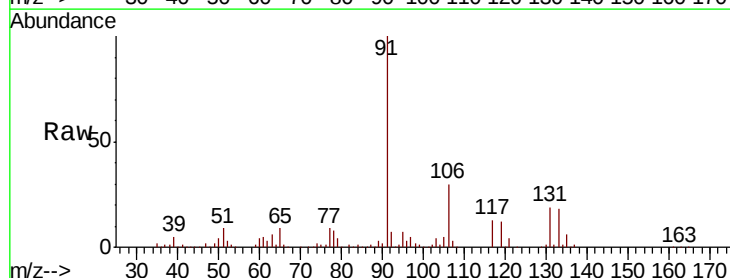
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

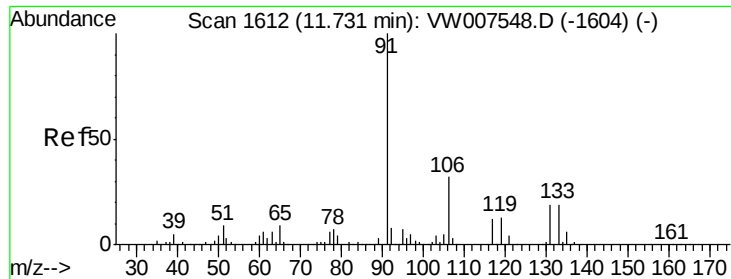
Tgt Ion:112 Resp: 116141  
Ion Ratio Lower Upper  
112 100  
114 30.8 27.8 41.8



#66  
1,1,1,2-Tetrachloroethane  
Concen: 50.803 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion:131 Resp: 41130  
Ion Ratio Lower Upper  
131 100  
133 95.2 47.1 141.4  
119 62.6 31.3 93.9

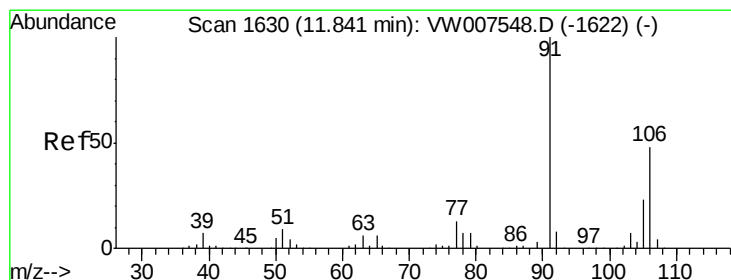
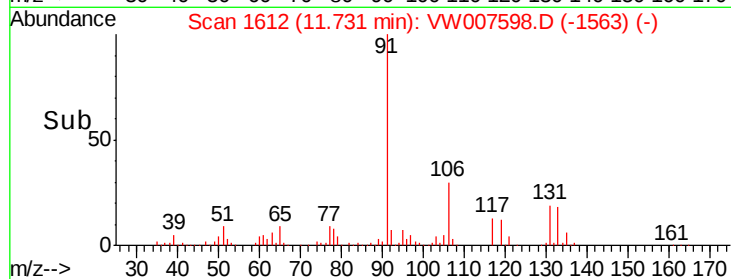
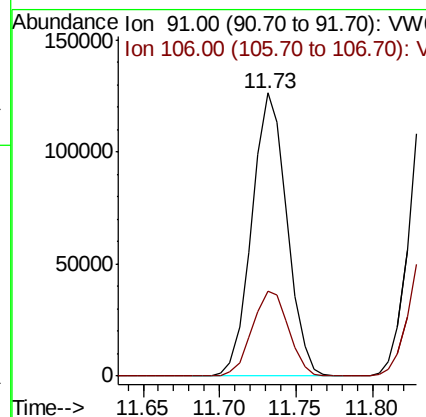
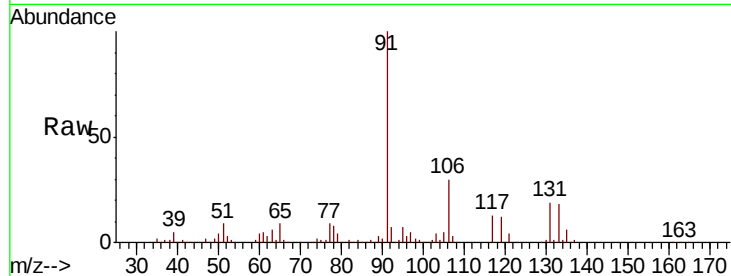




#67  
Ethyl Benzene  
Concen: 51.033 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

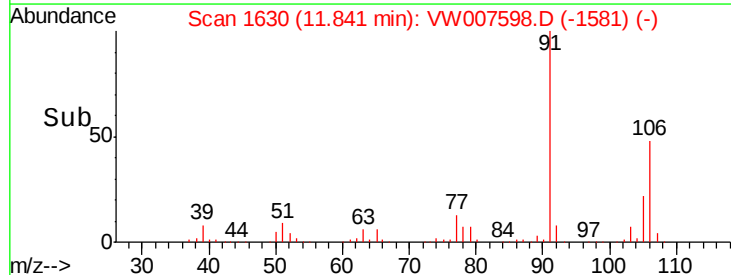
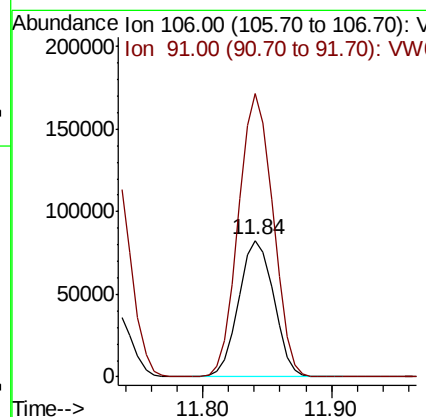
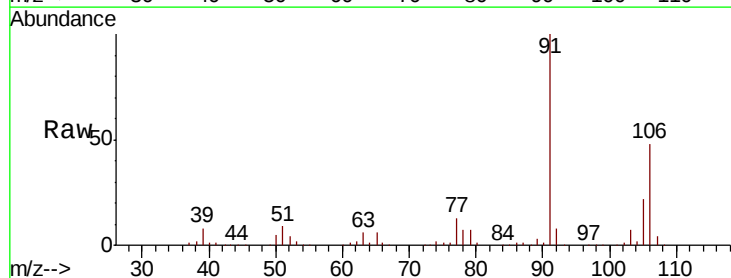
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

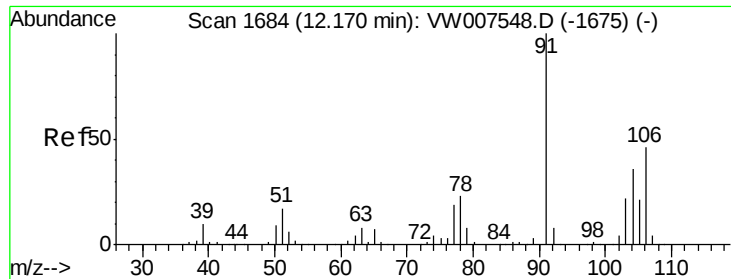
Tgt Ion: 91 Resp: 201688  
Ion Ratio Lower Upper  
91 100  
106 30.1 21.8 32.8



#68  
m/p-Xylenes  
Concen: 101.518 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 106 Resp: 155973  
Ion Ratio Lower Upper  
106 100  
91 205.0 165.3 247.9

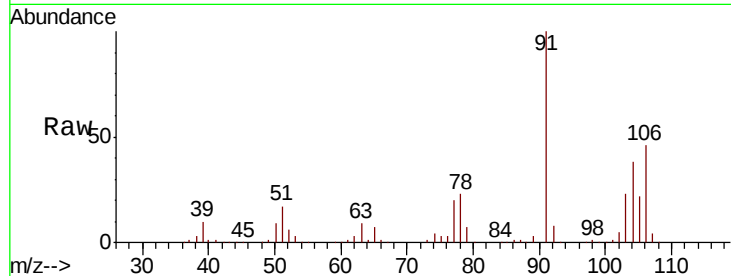




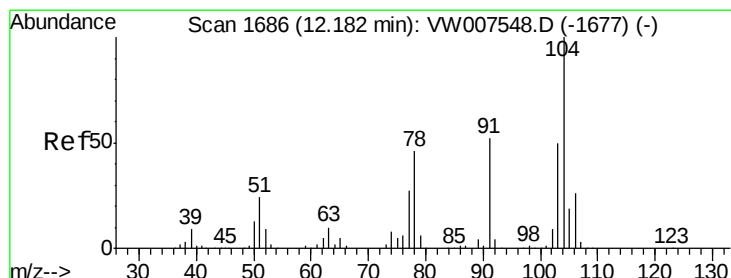
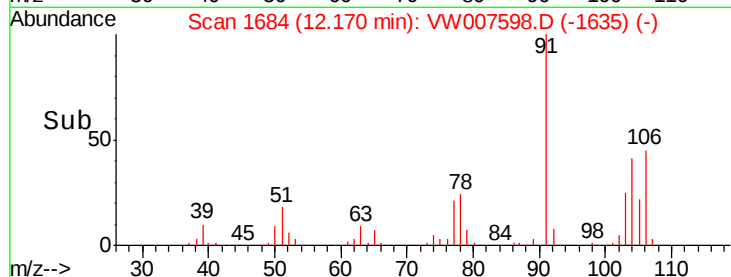
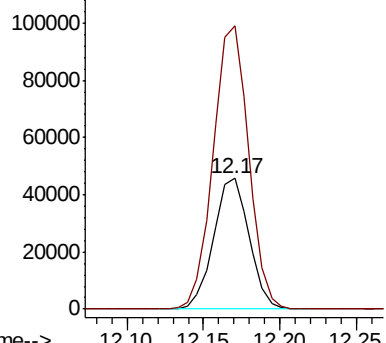
#69  
o-Xylene  
Concen: 51.261 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

Tgt Ion:106 Resp: 73555  
Ion Ratio Lower Upper  
106 100  
91 217.0 106.6 319.8

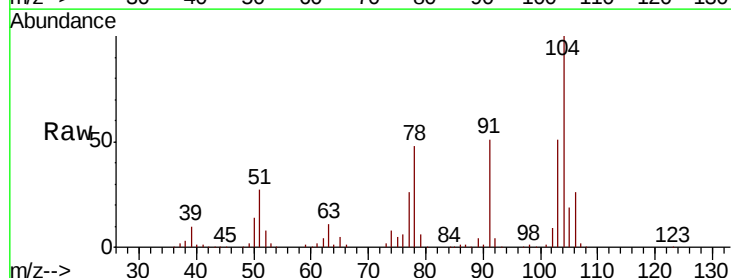


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW

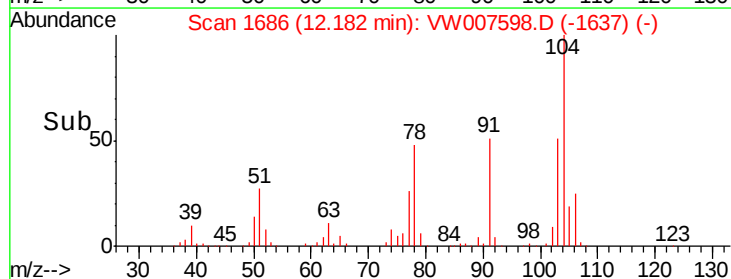
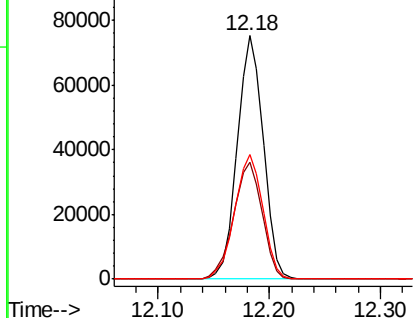


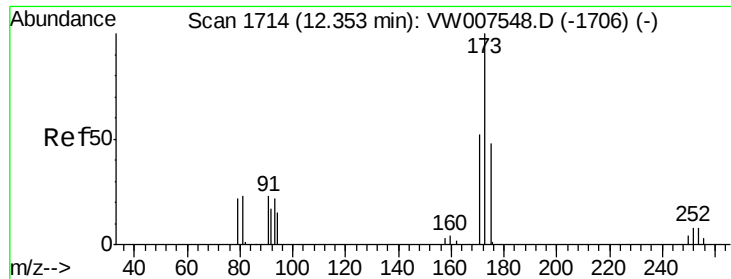
#70  
Styrene  
Concen: 52.547 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion:104 Resp: 121788  
Ion Ratio Lower Upper  
104 100  
78 52.5 41.8 62.8  
103 55.5 46.6 69.8



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VW  
Ion 103.00 (102.70 to 103.70): V

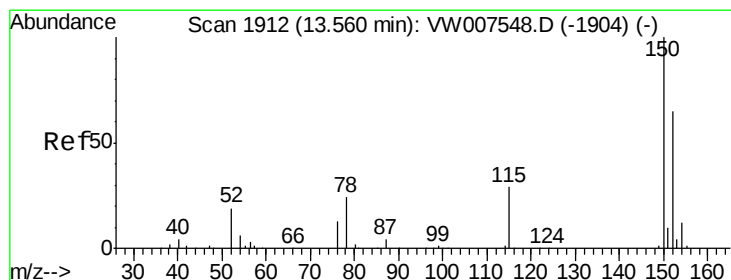
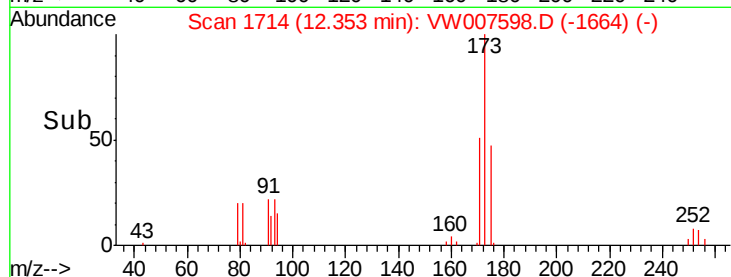
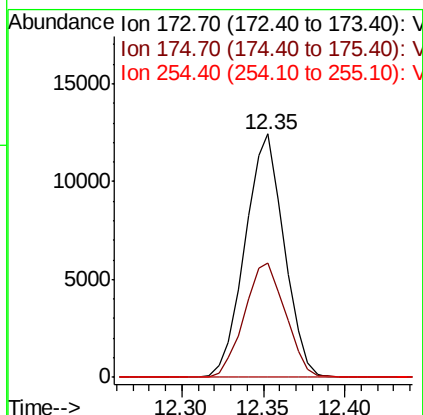
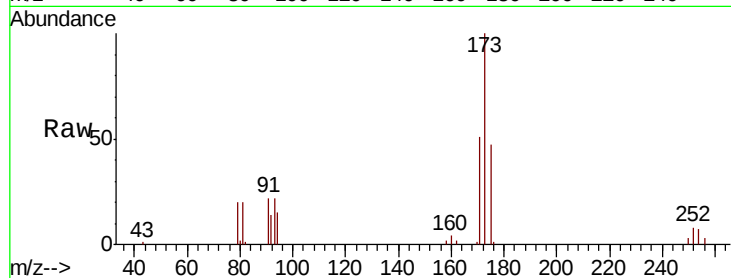




#71  
Bromoform  
Concen: 49.936 ug/l  
RT: 12.35 min Scan# 1714  
Delta R.T. 0.01 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

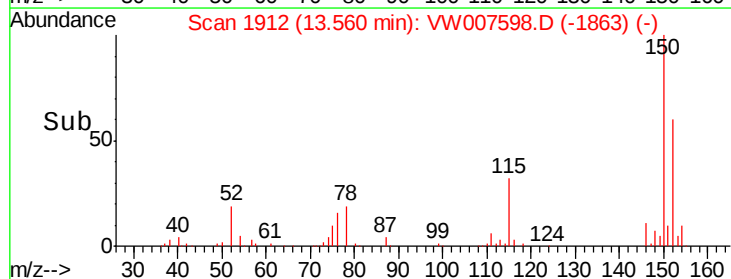
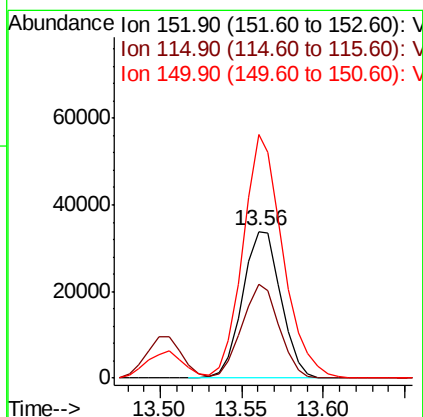
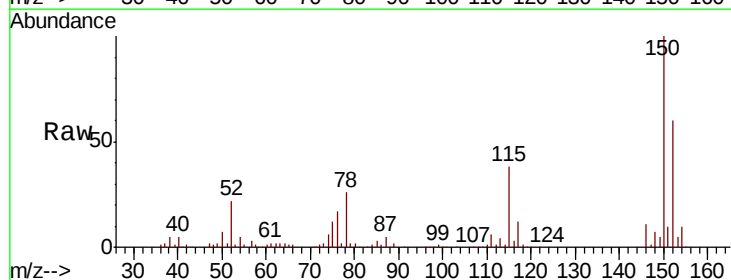
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

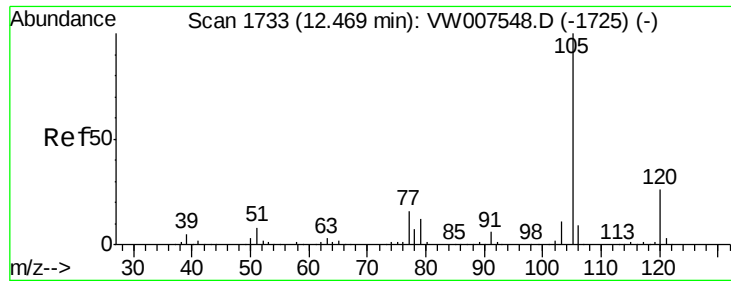
Tgt Ion:173 Resp: 20693  
Ion Ratio Lower Upper  
173 100  
175 49.4 23.6 70.8  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion:152 Resp: 55471  
Ion Ratio Lower Upper  
152 100  
115 62.0 31.4 94.2  
150 171.7 0.0 358.4





#73

Isopropylbenzene

Concen: 48.295 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampled :

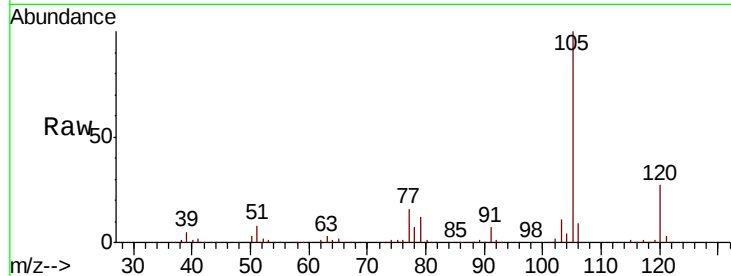
BFB

Tgt Ion: 105 Resp: 205274

Ion Ratio Lower Upper

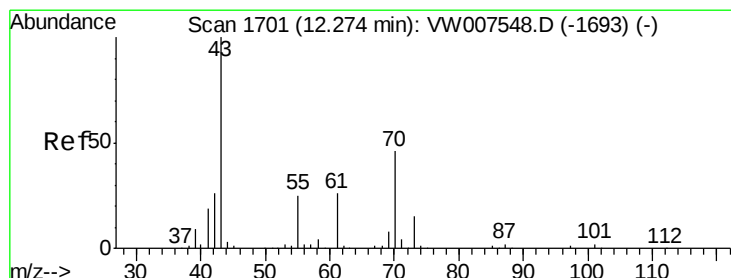
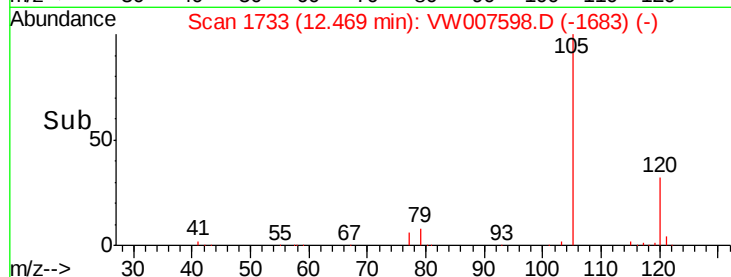
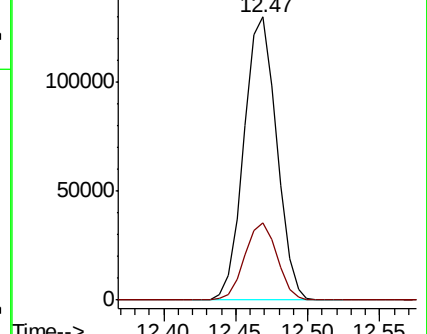
105 100

120 26.8 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 48.640 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Tgt Ion: 43 Resp: 37573

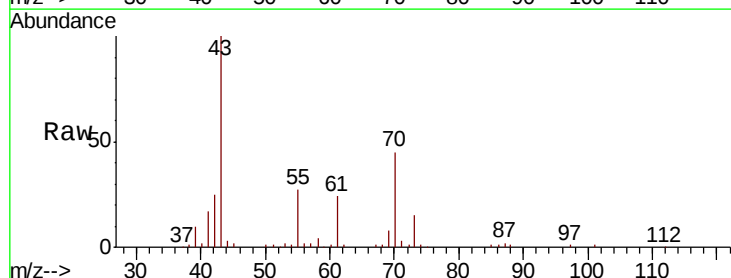
Ion Ratio Lower Upper

43 100

70 44.9 36.5 54.7

55 26.5 20.1 30.1

61 25.0 19.3 28.9

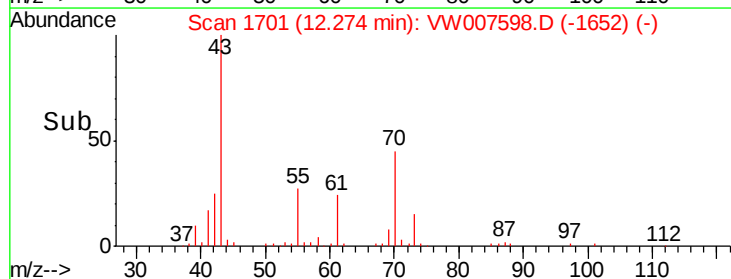
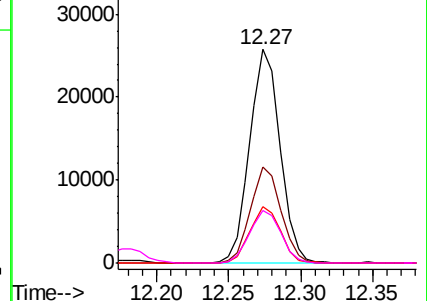


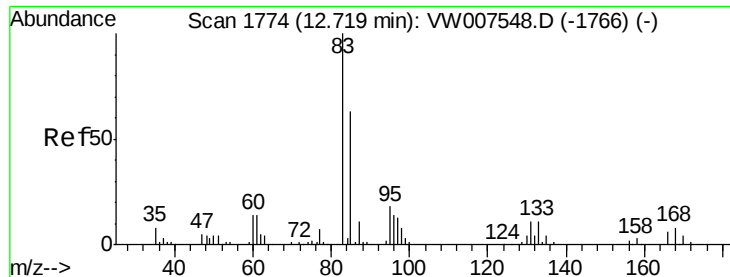
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

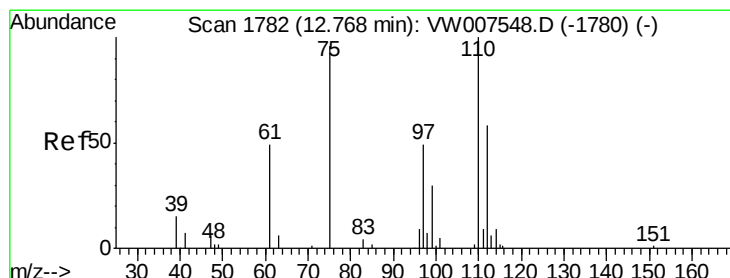
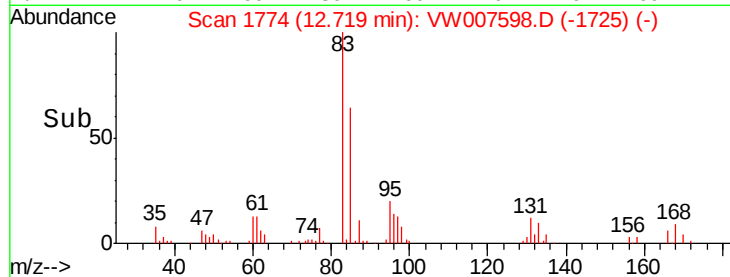
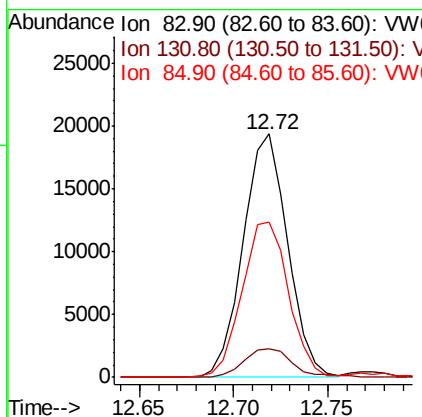
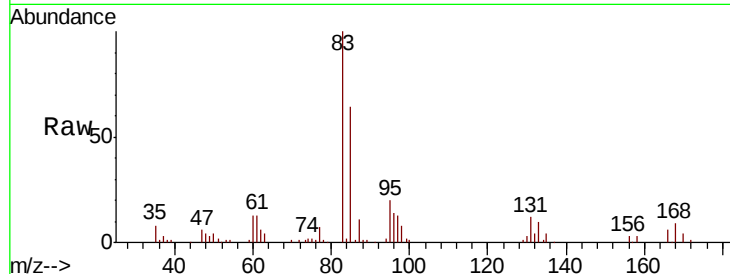




#75  
 1,1,2,2-Tetrachloroethane  
 Concen: 50.441 ug/l  
 RT: 12.72 min Scan# 1774  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

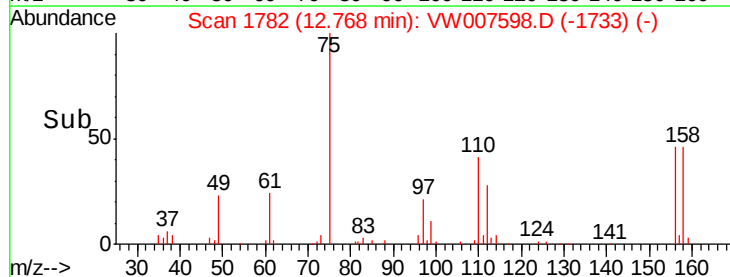
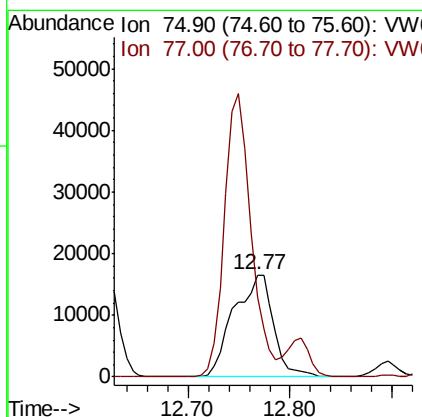
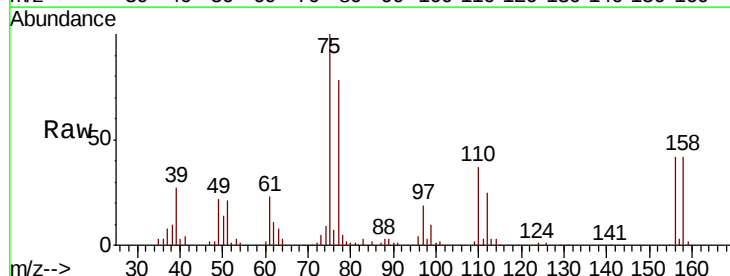
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

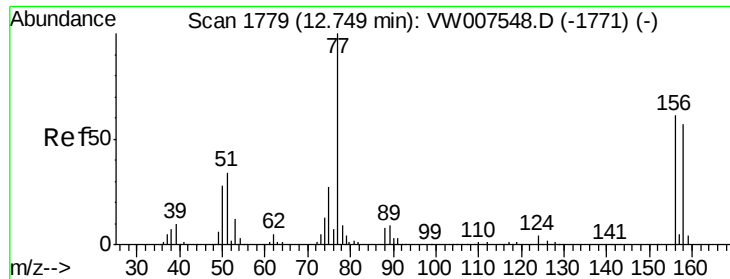
Tgt Ion: 83 Resp: 31754  
 Ion Ratio Lower Upper  
 83 100  
 131 12.9 5.9 17.8  
 85 66.3 30.0 90.0



#76  
 1,2,3-Trichloropropane  
 Concen: 98.197 ug/l  
 RT: 12.77 min Scan# 1782  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 75 Resp: 44913  
 Ion Ratio Lower Upper  
 75 100  
 77 186.3 166.9 500.8





#77

Bromobenzene

Concen: 49.586 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

BFB

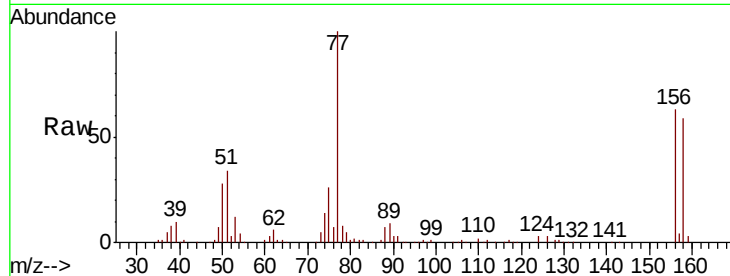
Tgt Ion:156 Resp: 46717

Ion Ratio Lower Upper

156 100

77 179.1 88.1 264.4

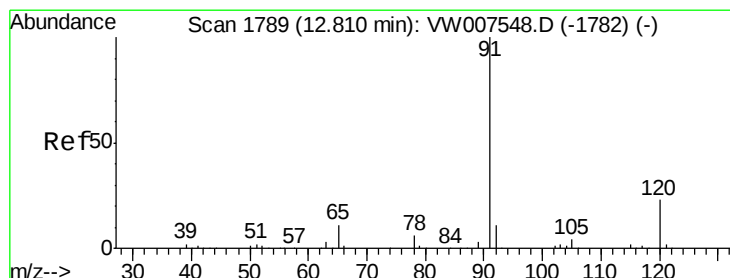
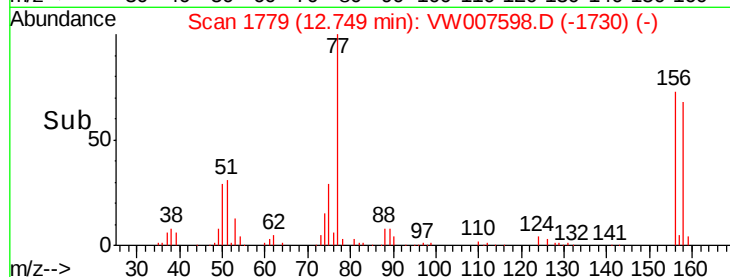
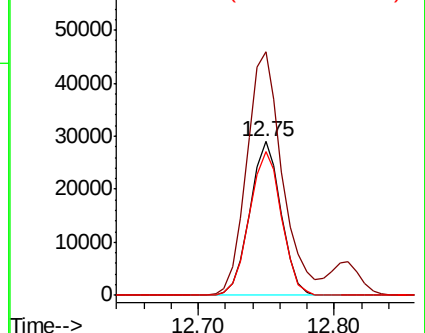
158 96.3 45.6 136.7



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: 50.003 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.01 min

Lab File: VW007598.D

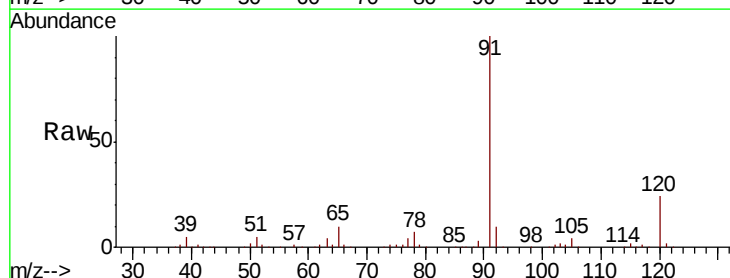
Acq: 15 Dec 2018 23:03

Tgt Ion: 91 Resp: 239185

Ion Ratio Lower Upper

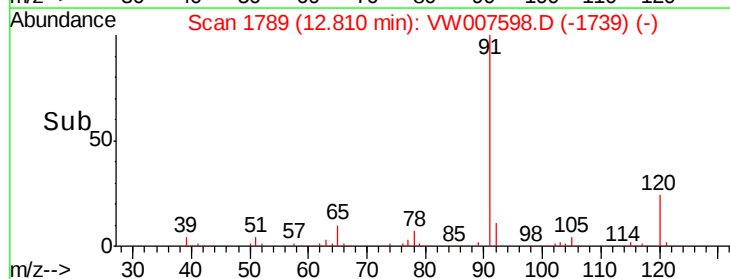
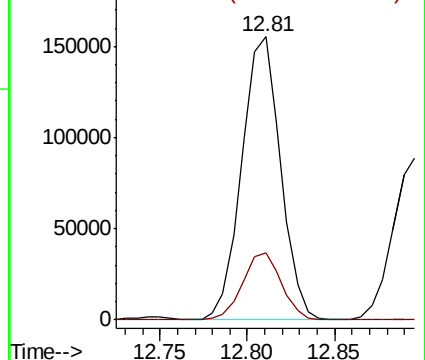
91 100

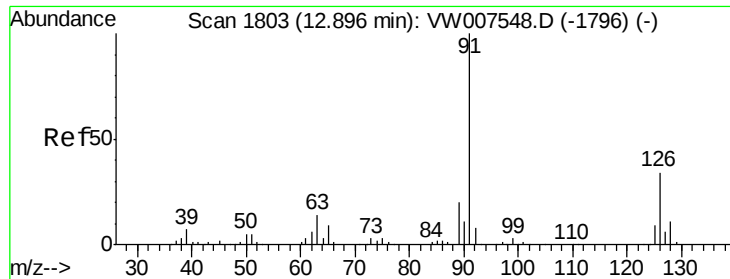
120 23.6 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

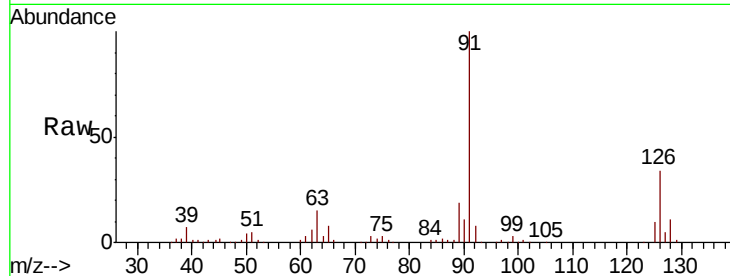




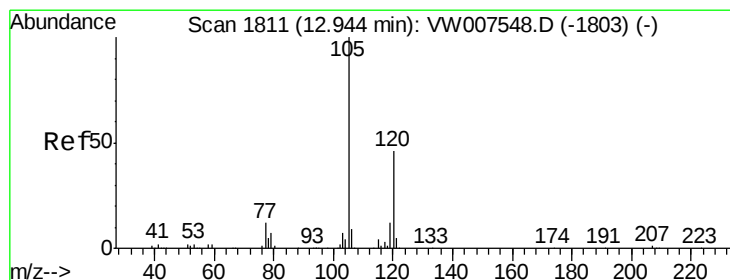
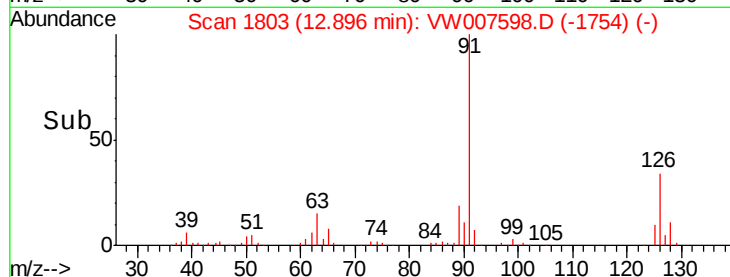
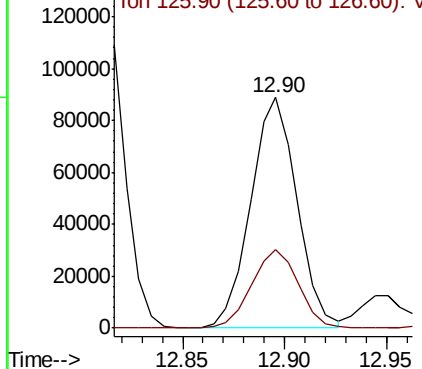
#79  
 2-Chlorotoluene  
 Concen: 48.555 ug/l  
 RT: 12.90 min Scan# 1803  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

Tgt Ion: 91 Resp: 140534  
 Ion Ratio Lower Upper  
 91 100  
 126 34.2 15.9 47.6

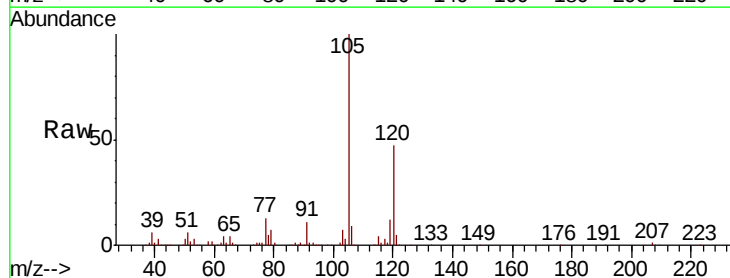


Abundance Ion 91.00 (90.70 to 91.70): VW  
 Ion 125.90 (125.60 to 126.60): V

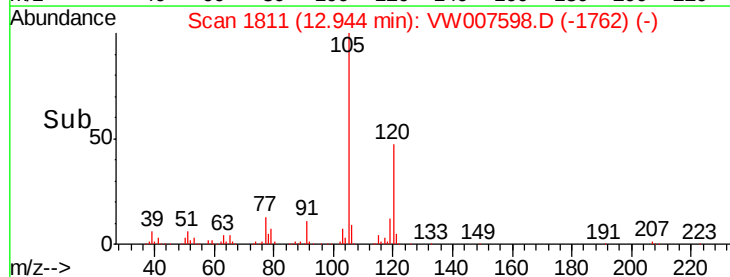
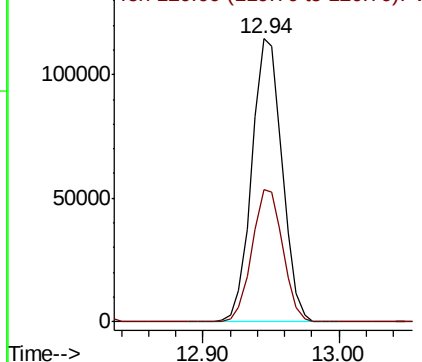


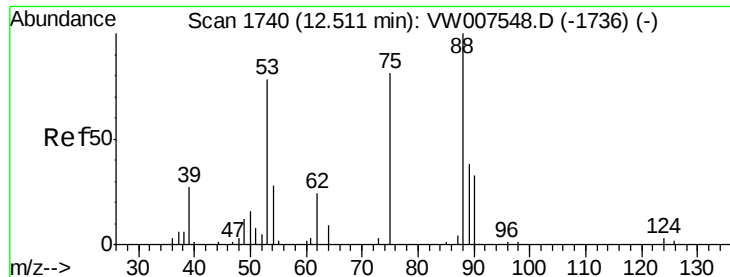
#80  
 1,3,5-Trimethylbenzene  
 Concen: 50.267 ug/l  
 RT: 12.94 min Scan# 1811  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 105 Resp: 179523  
 Ion Ratio Lower Upper  
 105 100  
 120 47.4 23.8 71.4



Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 120.00 (119.70 to 120.70): V

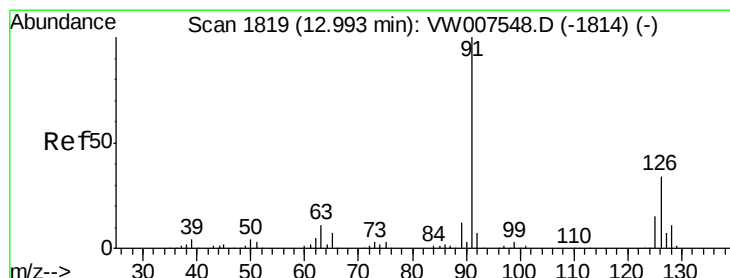
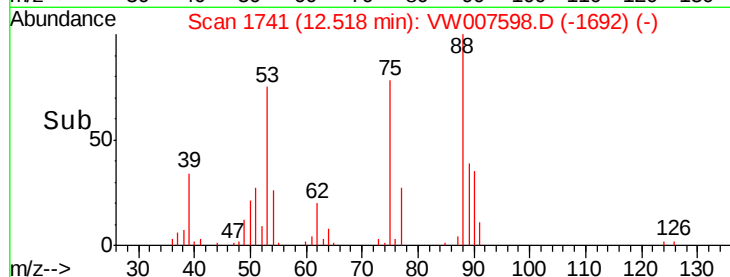
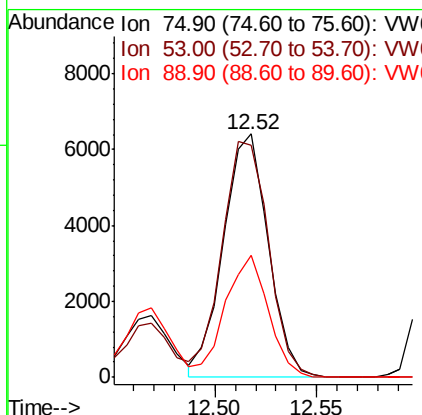
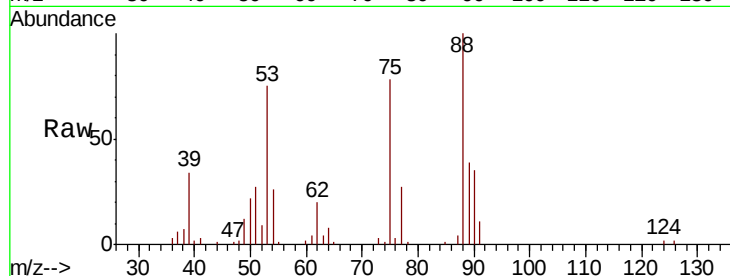




#81  
trans-1,4-Dichloro-2-butene  
Concen: 47.196 ug/l  
RT: 12.52 min Scan# 1741  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

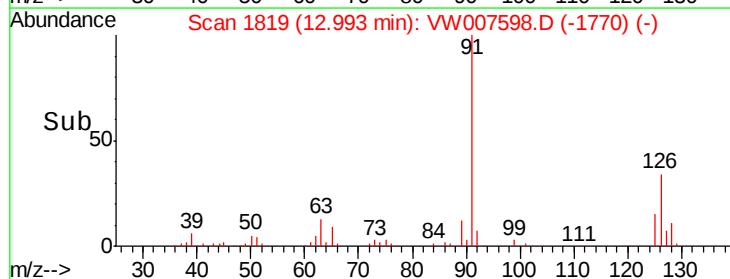
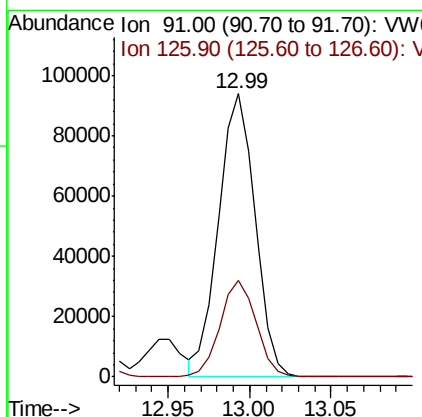
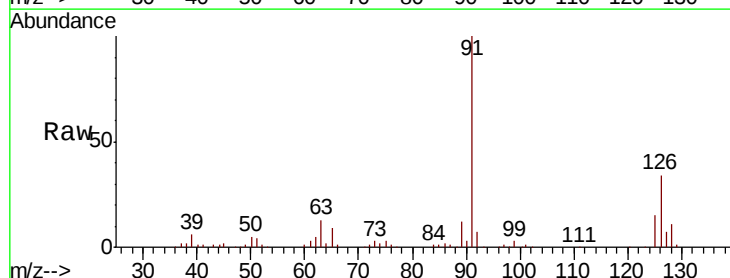
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

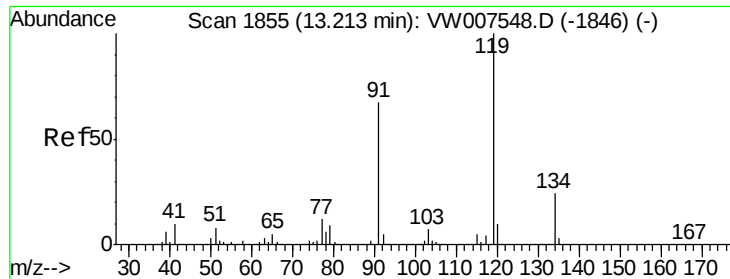
Tgt Ion: 75 Resp: 9772  
Ion Ratio Lower Upper  
75 100  
53 100.7 84.9 127.3  
89 48.4 40.3 60.5



#82  
4-Chlorotoluene  
Concen: 48.125 ug/l  
RT: 12.99 min Scan# 1819  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion: 91 Resp: 146826  
Ion Ratio Lower Upper  
91 100  
126 33.7 16.0 48.0





#83

tert-Butylbenzene

Concen: 49.379 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

BFB

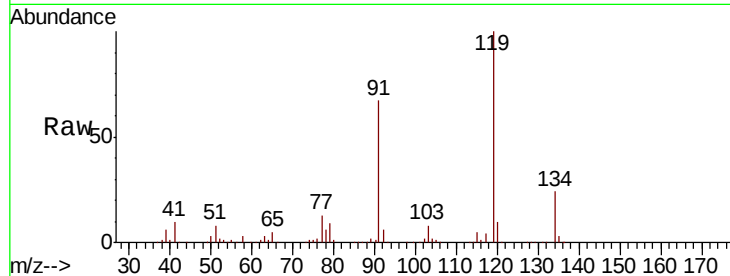
Tgt Ion:119 Resp: 155391

Ion Ratio Lower Upper

119 100

91 67.3 33.1 99.2

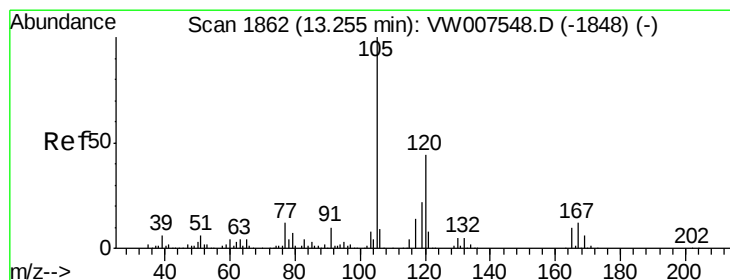
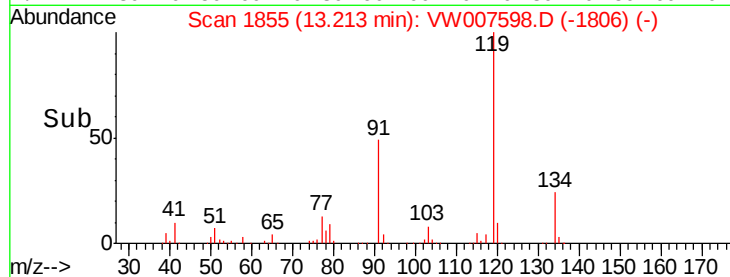
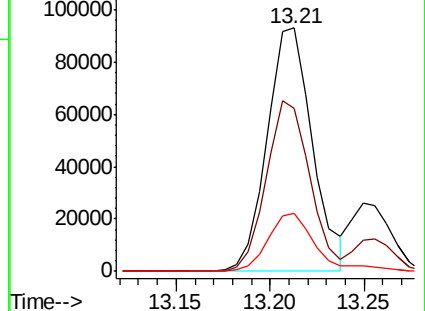
134 25.1 12.5 37.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 48.791 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW007598.D

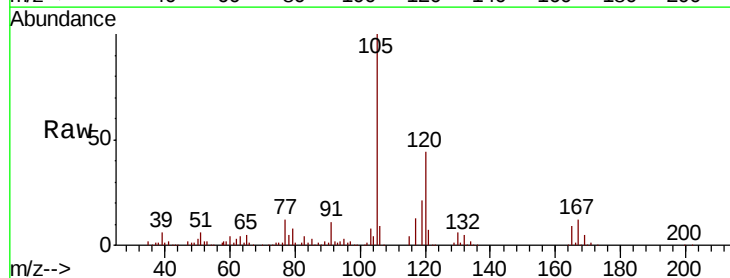
Acq: 15 Dec 2018 23:03

Tgt Ion:105 Resp: 179314

Ion Ratio Lower Upper

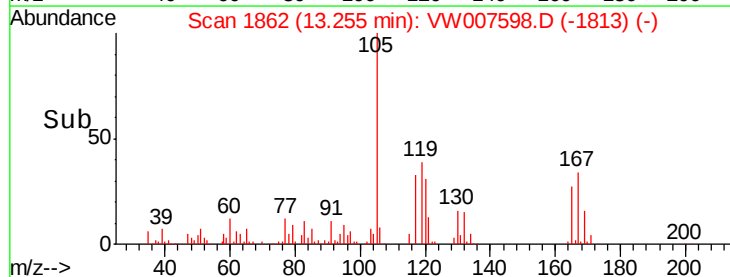
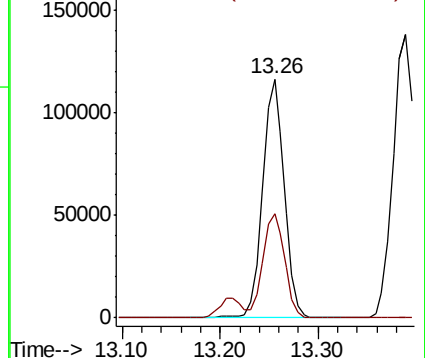
105 100

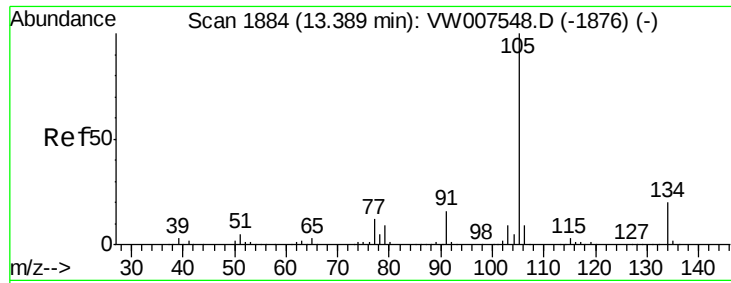
120 44.2 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

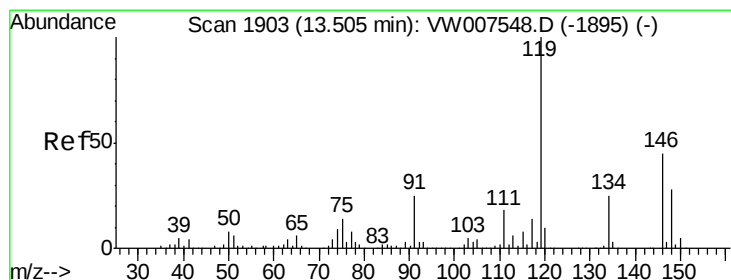
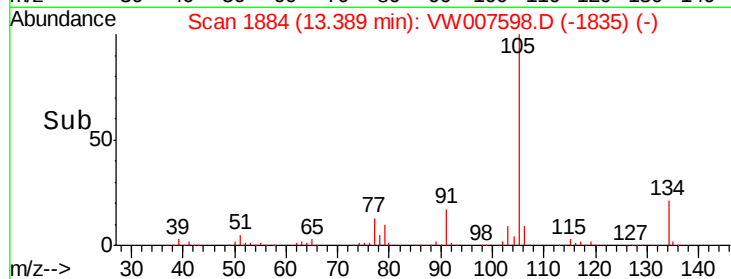
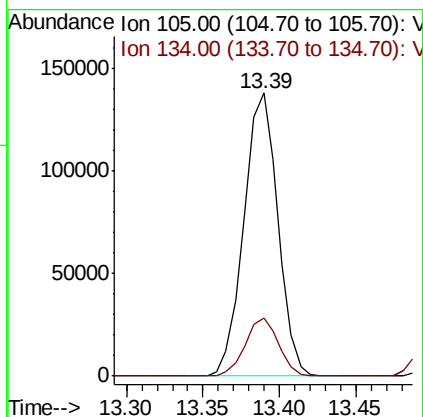
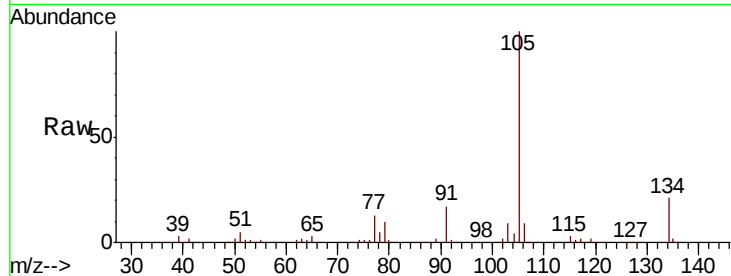




#85  
 sec-Butylbenzene  
 Concen: 49.700 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

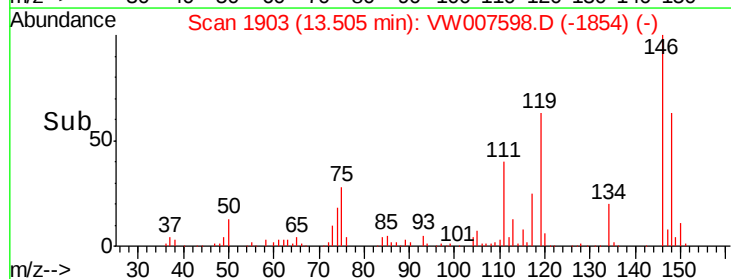
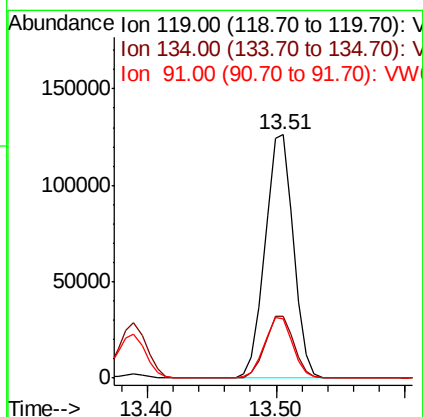
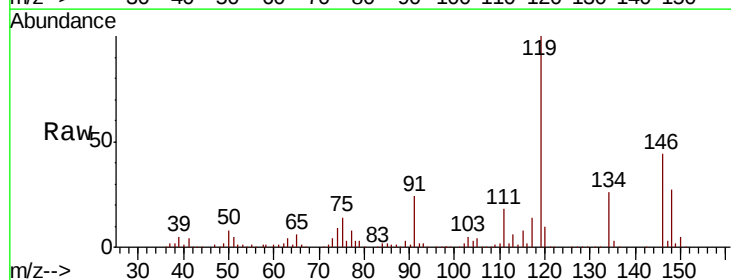
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

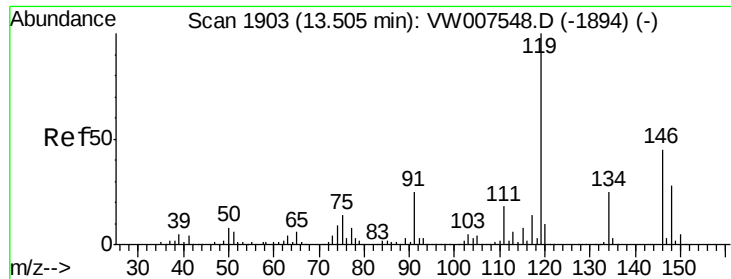
Tgt Ion:105 Resp: 213504  
 Ion Ratio Lower Upper  
 105 100  
 134 20.3 11.1 33.3



#86  
 p-Isopropyltoluene  
 Concen: 49.985 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion:119 Resp: 192909  
 Ion Ratio Lower Upper  
 119 100  
 134 25.6 12.9 38.7  
 91 24.9 11.9 35.9

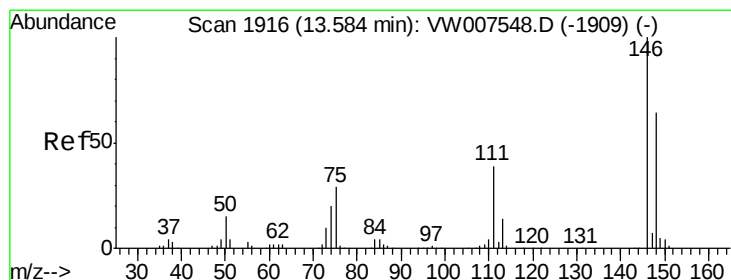
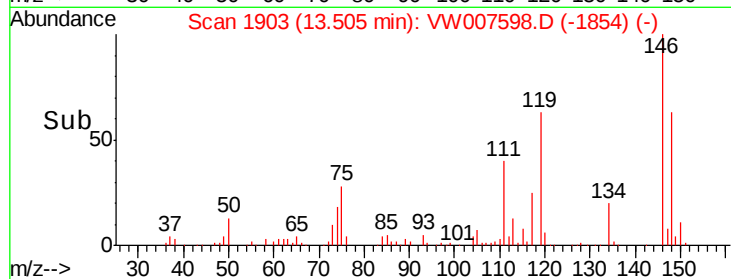
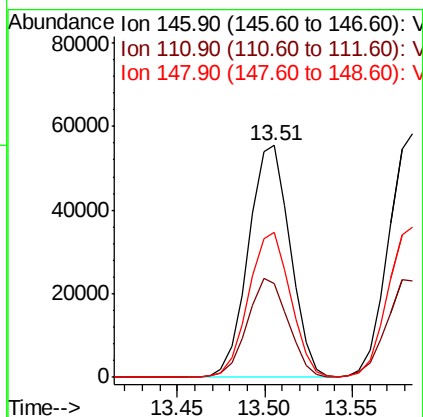
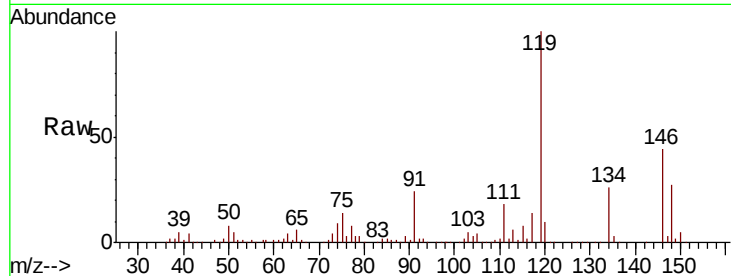




#87  
 1,3-Dichlorobenzene  
 Concen: 49.025 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

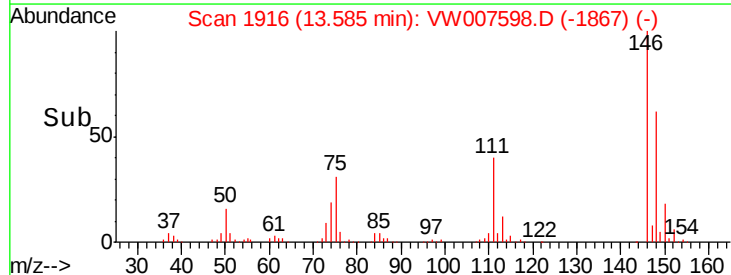
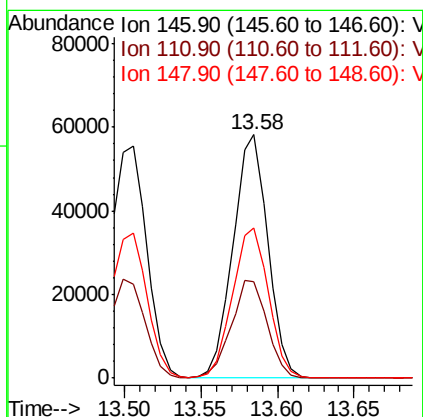
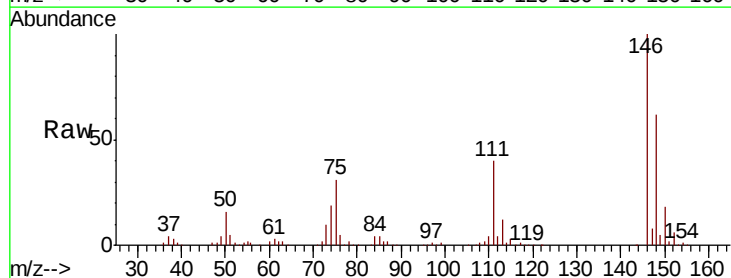
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

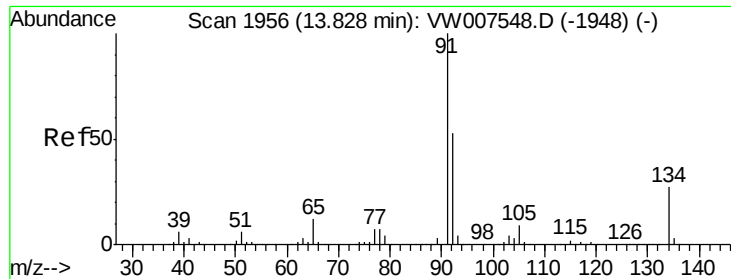
Tgt Ion:146 Resp: 92091  
 Ion Ratio Lower Upper  
 146 100  
 111 41.9 20.1 60.3  
 148 62.9 31.4 94.0



#88  
 1,4-Dichlorobenzene  
 Concen: 48.567 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion:146 Resp: 91717  
 Ion Ratio Lower Upper  
 146 100  
 111 41.6 20.3 61.0  
 148 63.7 33.5 100.5





#89

n-Butylbenzene

Concen: 49.630 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW007598.D

Acq: 15 Dec 2018 23:03

Instrument :

MSVOA\_W

ClientSampleId :

BFB

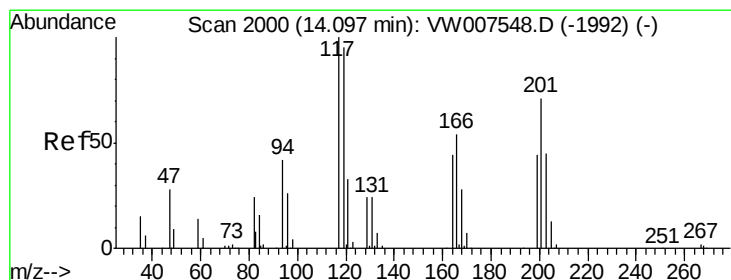
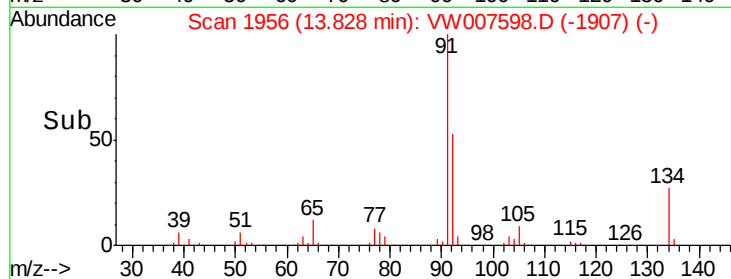
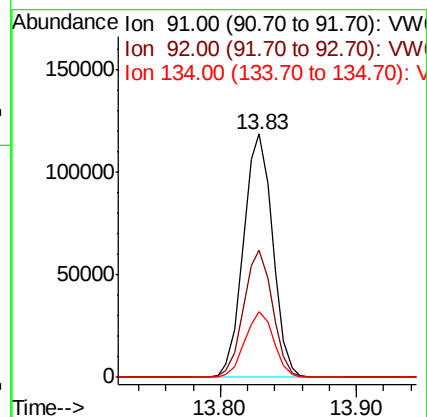
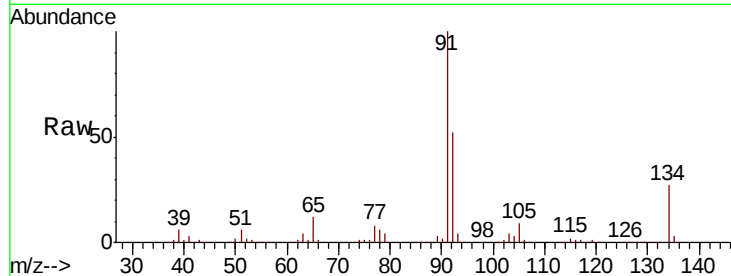
Tgt Ion: 91 Resp: 177562

Ion Ratio Lower Upper

91 100

92 51.9 25.7 77.1

134 26.8 13.4 40.2



#90

Hexachloroethane

Concen: 49.557 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW007598.D

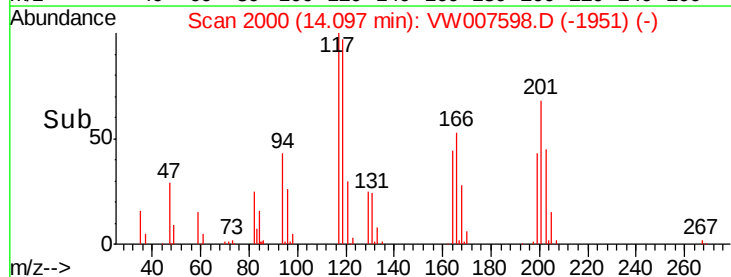
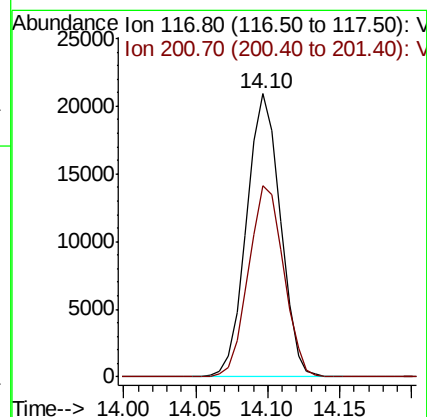
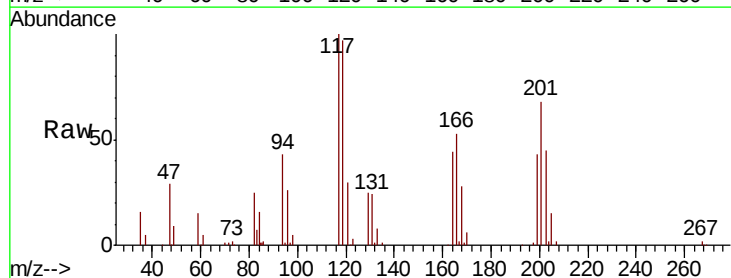
Acq: 15 Dec 2018 23:03

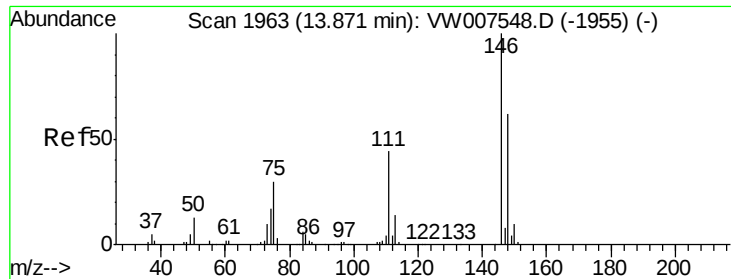
Tgt Ion: 117 Resp: 34030

Ion Ratio Lower Upper

117 100

201 70.1 35.3 105.9

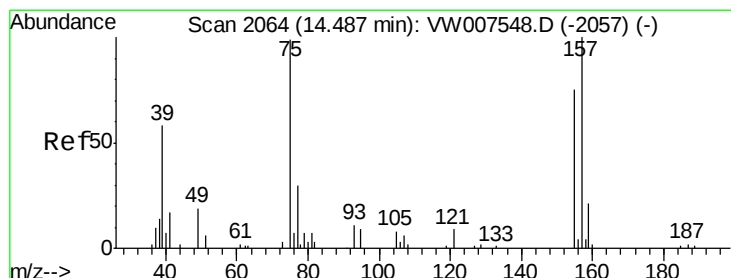
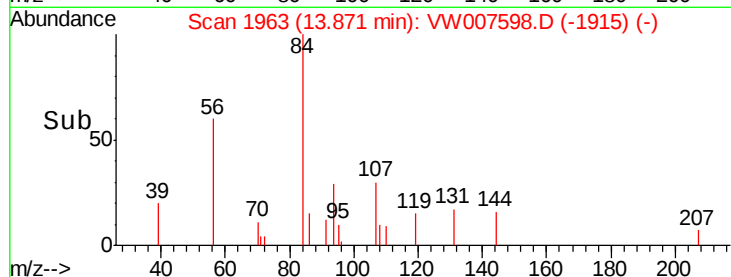
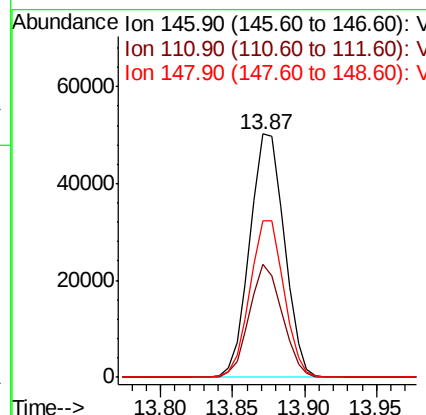
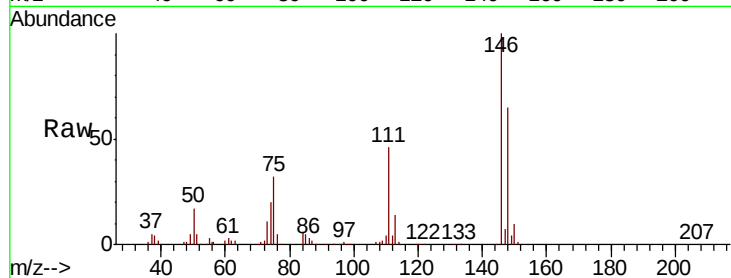




#91  
 1,2-Dichlorobenzene  
 Concen: 49.612 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.01 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

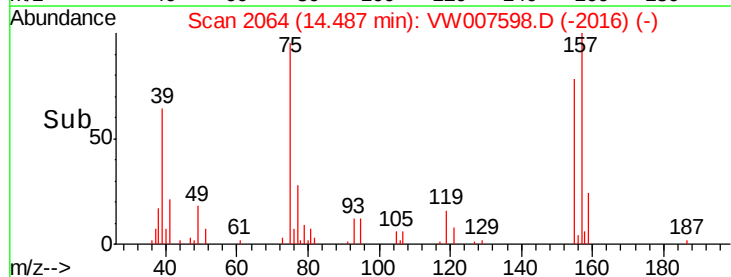
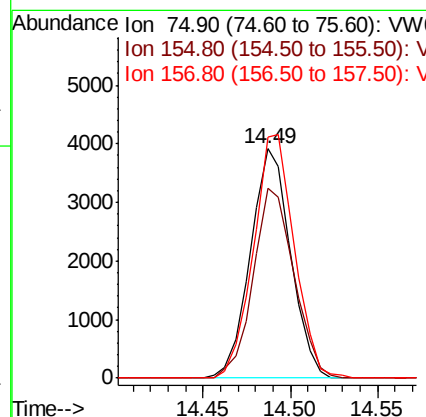
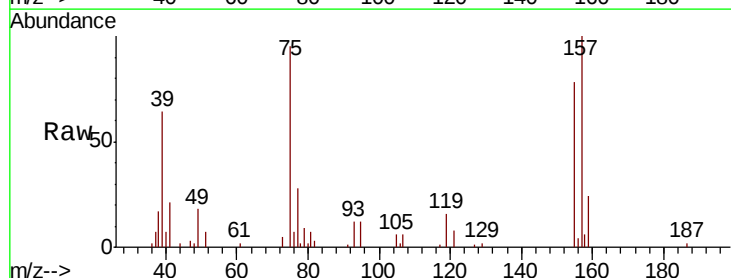
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

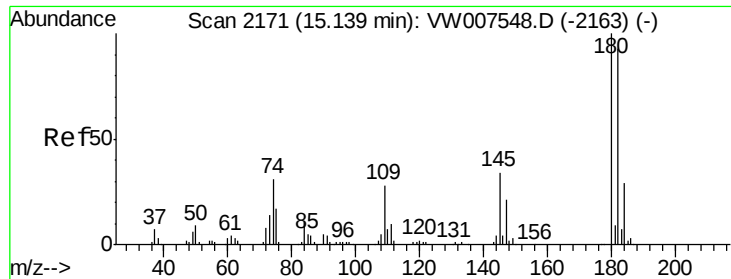
Tgt Ion: 146 Resp: 83470  
 Ion Ratio Lower Upper  
 146 100  
 111 44.2 22.4 67.2  
 148 63.4 32.4 97.2



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 49.622 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.01 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion: 75 Resp: 6269  
 Ion Ratio Lower Upper  
 75 100  
 155 84.2 40.8 122.2  
 157 108.6 51.1 153.4

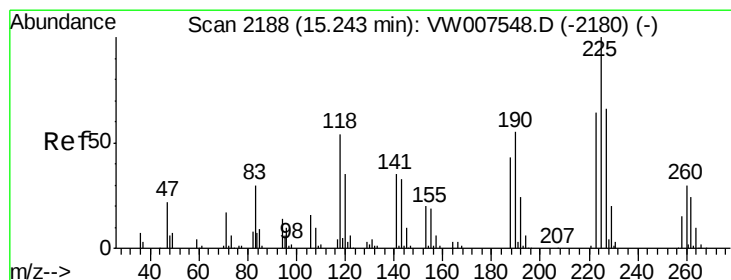
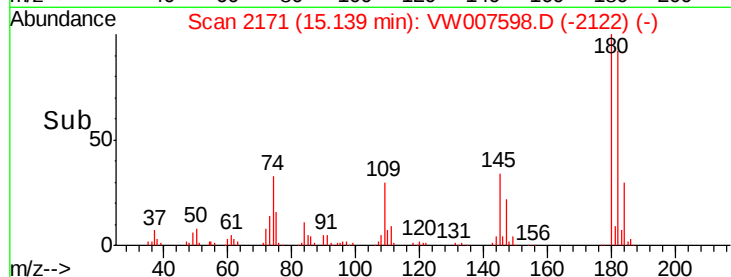
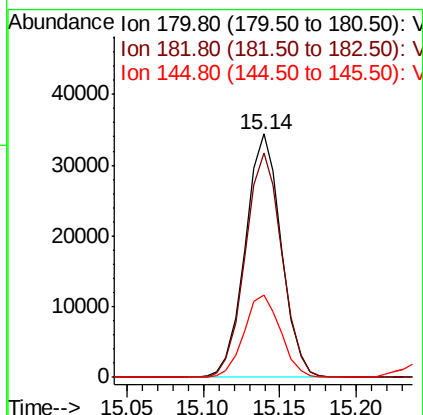
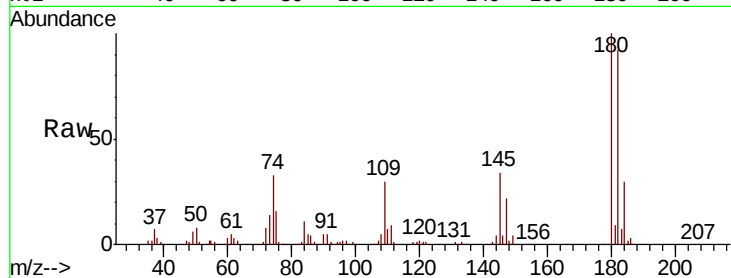




#93  
 1,2,4-Trichlorobenzene  
 Concen: 48.451 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

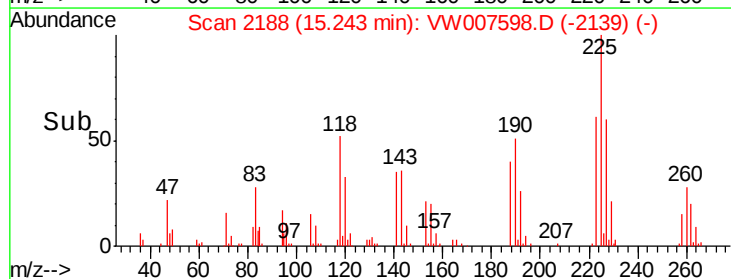
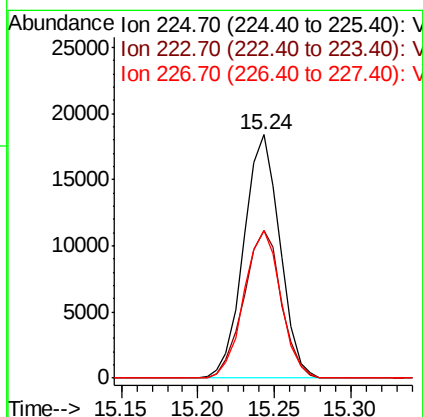
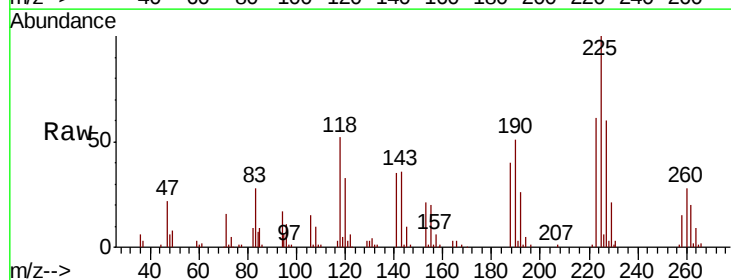
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

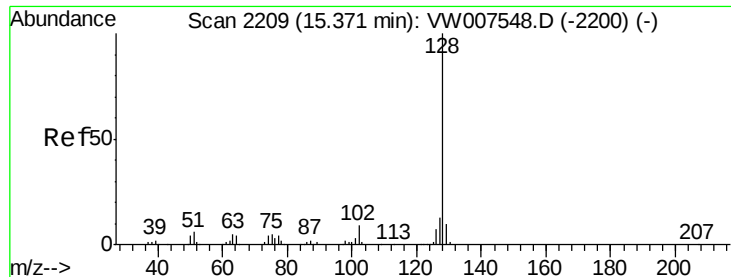
Tgt Ion:180 Resp: 56099  
 Ion Ratio Lower Upper  
 180 100  
 182 93.9 49.9 149.6  
 145 34.2 17.8 53.4



#94  
 Hexachlorobutadiene  
 Concen: 49.152 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. -0.00 min  
 Lab File: VW007598.D  
 Acq: 15 Dec 2018 23:03

Tgt Ion:225 Resp: 30196  
 Ion Ratio Lower Upper  
 225 100  
 223 62.7 32.1 96.3  
 227 61.7 31.9 95.9

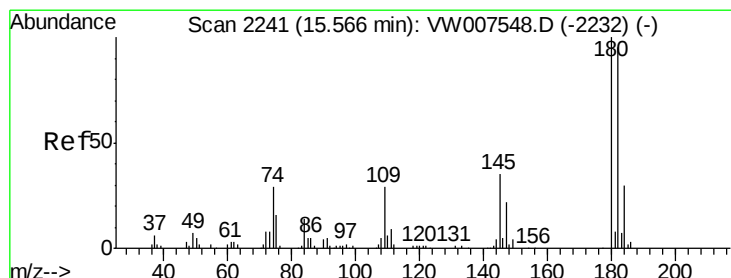
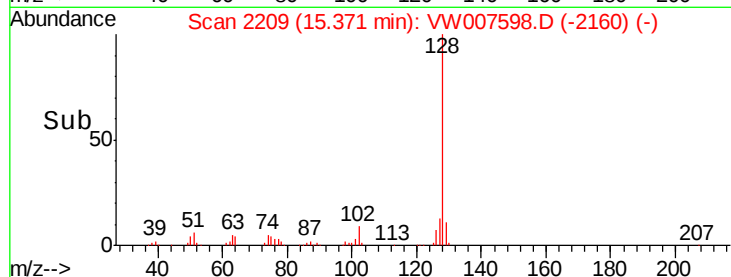
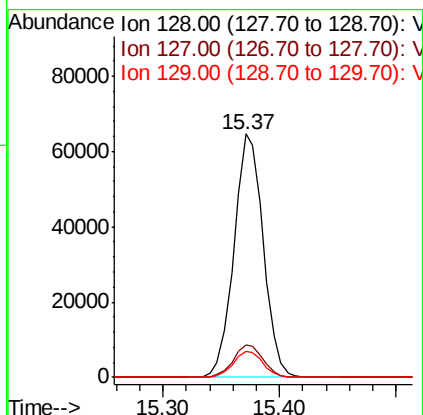
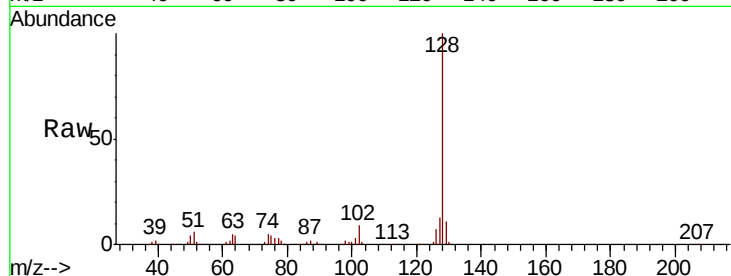




#95  
Naphthalene  
Concen: 50.996 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

Tgt Ion:128 Resp: 112957  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.2 15.4  
129 10.9 8.3 12.5



#96  
1,2,3-Trichlorobenzene  
Concen: 48.323 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: VW007598.D  
Acq: 15 Dec 2018 23:03

Tgt Ion:180 Resp: 48603  
Ion Ratio Lower Upper  
180 100  
182 94.3 45.6 136.7  
145 36.7 17.5 52.5

