

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081318\  
 Data File : VW004616.D  
 Acq On : 11 Aug 2018 01:08  
 Operator : SY/AP  
 Sample : VW0813SBS02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

Quant Time: Aug 11 03:05:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 610993   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 971183   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 921468   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 491233   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 341999   | 50.57 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.14% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 331470   | 51.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.38% |      |
| 50) Toluene-d8            | 10.33  | 98  | 1302332  | 52.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.50% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 469821   | 52.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.66% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 90082   | 21.484  | ug/l | 98     |
| 3) Chloromethane              | 2.22 | 50  | 124715  | 21.350  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.37 | 62  | 181851  | 22.285  | ug/l | 97     |
| 5) Bromomethane               | 2.78 | 94  | 106027  | 22.315  | ug/l | 95     |
| 6) Chloroethane               | 2.92 | 64  | 107350  | 22.016  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 71472   | 23.714  | ug/l | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 79797   | 20.930  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 143773  | 21.598  | ug/l | 97     |
| 10) Methyl Iodide             | 4.26 | 142 | 217060  | 21.733  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.20 | 59  | 38460   | 97.118  | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 140943  | 21.035  | ug/l | 96     |
| 13) Acrolein                  | 3.89 | 56  | 45768   | 94.325  | ug/l | 99     |
| 14) Allyl chloride            | 4.66 | 41  | 218745  | 21.729  | ug/l | 100    |
| 15) Acrylonitrile             | 5.37 | 53  | 170645  | 100.718 | ug/l | 99     |
| 16) Acetone                   | 4.13 | 43  | 172279  | 101.996 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.38 | 76  | 463661  | 21.533  | ug/l | 99     |
| 18) Methyl Acetate            | 4.68 | 43  | 83728   | 19.879  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 185939  | 20.345  | ug/l | 96     |
| 20) Methylene Chloride        | 4.91 | 84  | 199189  | 18.577  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 153068  | 21.199  | ug/l | 98     |
| 22) Diisopropyl ether         | 6.31 | 45  | 462151  | 22.340  | ug/l | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 1209823 | 97.306  | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 284745  | 21.504  | ug/l | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 255940  | 94.199  | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 145623  | 20.954  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 165708  | 21.330  | ug/l | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 122969  | 21.344  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 133978  | 95.383  | ug/l | 98     |
| 30) Chloroform                | 7.68 | 83  | 277908  | 21.368  | ug/l | 98     |
| 31) Cyclohexane               | 7.96 | 56  | 252379  | 19.920  | ug/l | 92     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 211741  | 21.673  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 218717  | 20.916  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 93124   | 19.015  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 194762  | 20.698  | ug/l | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081318\  
 Data File : VW004616.D  
 Acq On : 11 Aug 2018 01:08  
 Operator : SY/AP  
 Sample : VW0813SBS02  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

Quant Time: Aug 11 03:05:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 251525   | 19.624  | ug/l   | 97       |
| 40) Benzene                    | 8.32  | 78   | 657021   | 21.396  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 51522    | 18.835  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 174320   | 20.518  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 162838   | 19.075  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 156636   | 20.758  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 163528   | 21.265  | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 79447    | 20.294  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 188437   | 20.392  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.44  | 41   | 76597    | 19.198  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.47  | 88   | 24719    | 413.874 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 567615   | 95.522  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 394231   | 21.771  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 178928   | 19.284  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 218505   | 20.207  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 113516   | 20.231  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 126270   | 18.796  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 195008   | 20.164  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 325911   | 97.028  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 377321   | 93.654  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 123205   | 20.188  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 105492   | 20.011  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 139345   | 21.678  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 426003   | 20.978  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 142992   | 20.682  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 720812   | 20.938  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 568621   | 42.740  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 260445   | 21.109  | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 447962   | 21.489  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 74367    | 19.567  | ug/l   | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 715800   | 21.066  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 151948   | 18.442  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 138517   | 19.529  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 173982   | 34.227  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 172146   | 20.940  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.81 | 91   | 894799   | 21.342  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 520694   | 21.460  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 629134   | 21.706  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 37063    | 17.454  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 554133   | 21.520  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 514725   | 21.172  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 649533   | 21.647  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 779427   | 21.251  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 678653   | 21.353  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 357382   | 21.098  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.59 | 146  | 353726   | 20.977  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 643359   | 20.603  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 121544   | 20.670  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 320014   | 20.824  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 21946    | 18.935  | ug/l   | 97       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081318\  
Data File : VW004616.D  
Acq On : 11 Aug 2018 01:08  
Operator : SY/AP  
Sample : VW0813SBS02  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

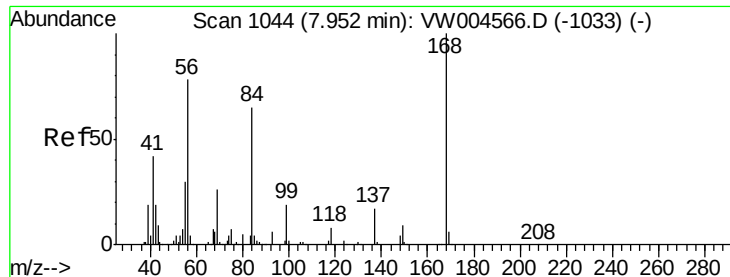
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

Quant Time: Aug 11 03:05:36 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 08:22:01 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 221144   | 20.785 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 130741   | 21.103 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 378934   | 19.166 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 201689   | 21.094 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampled :

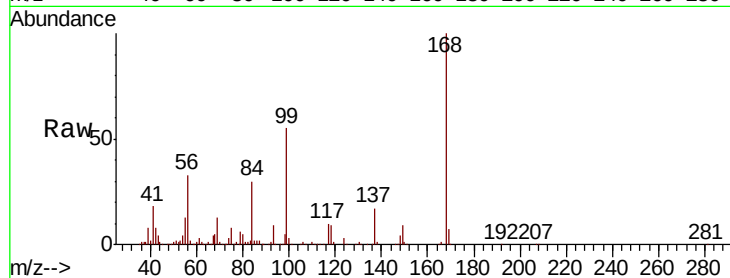
BFB

Tgt Ion:168 Resp: 610993

Ion Ratio Lower Upper

168 100

99 55.1 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

300000

250000

200000

150000

100000

50000

0

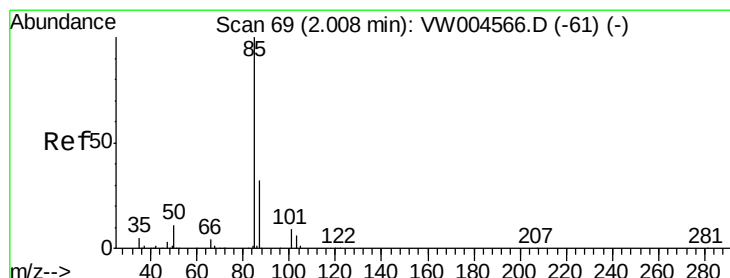
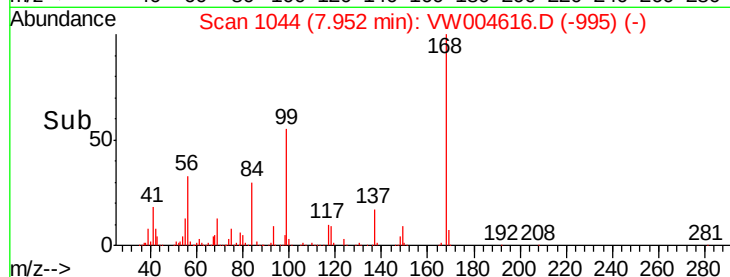
7.80

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.484 ug/l

RT: 2.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VW004616.D

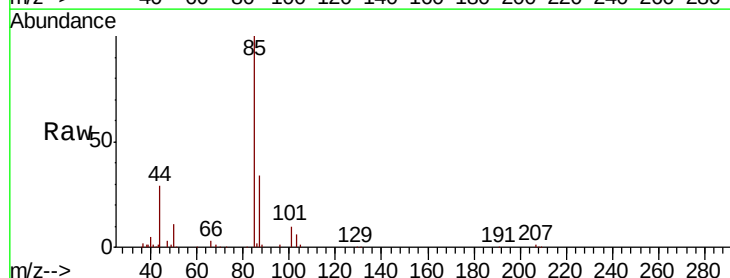
Acq: 11 Aug 2018 01:08

Tgt Ion: 85 Resp: 90082

Ion Ratio Lower Upper

85 100

87 34.2 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

25000

20000

15000

10000

5000

0

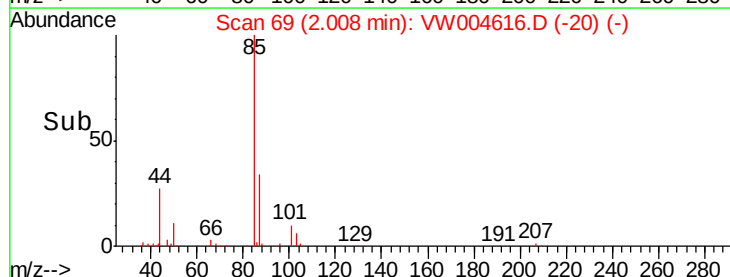
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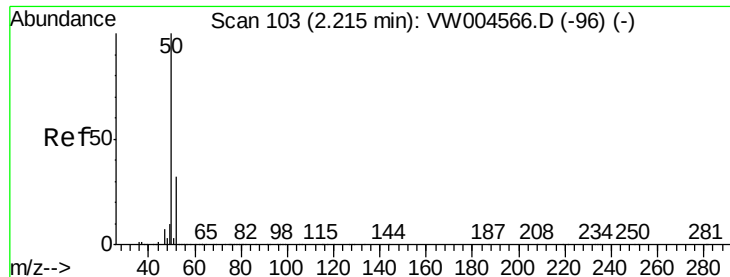
2.00

2.10

2.20

Time-->





#3

Chloromethane

Concen: 21.350 ug/l

RT: 2.22 min Scan# 103

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

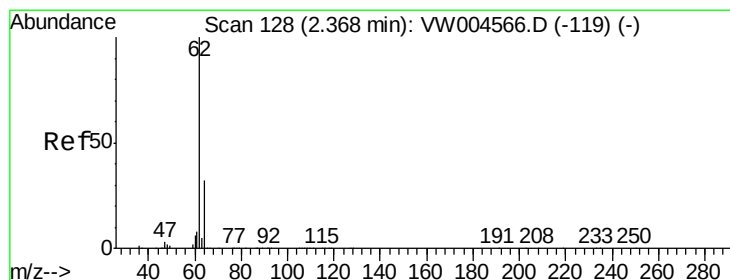
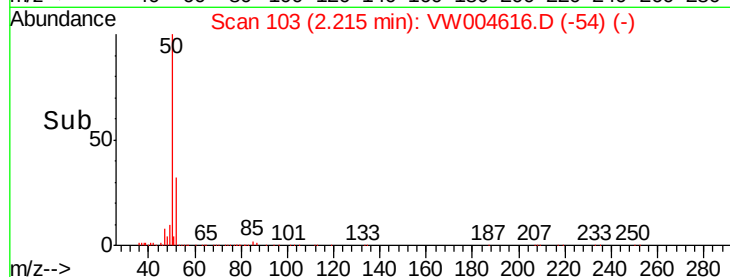
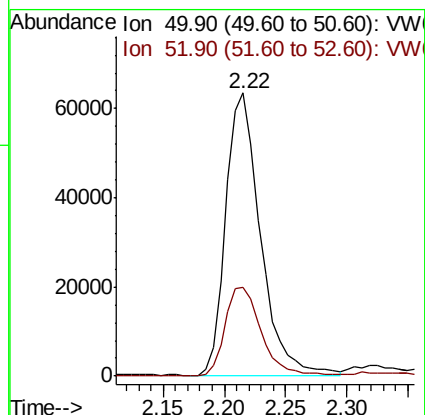
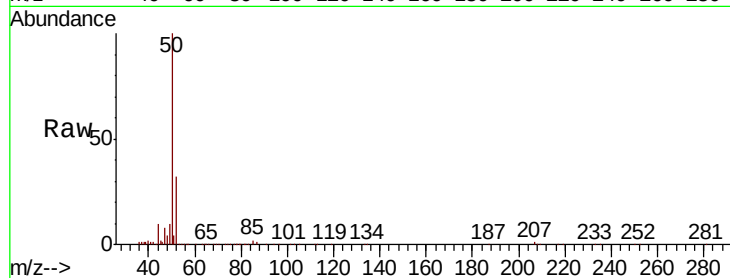
BFB

Tgt Ion: 50 Resp: 124715

Ion Ratio Lower Upper

50 100

52 31.6 25.8 38.8



#4

Vinyl Chloride

Concen: 22.285 ug/l

RT: 2.37 min Scan# 128

Delta R.T. 0.00 min

Lab File: VW004616.D

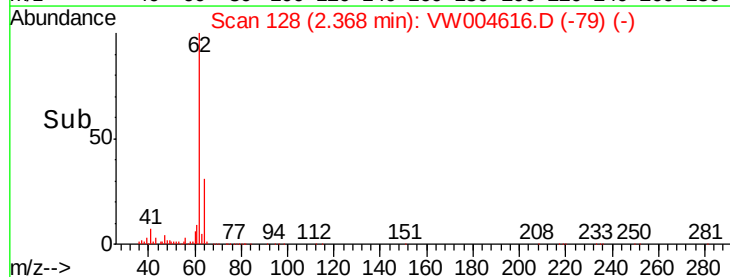
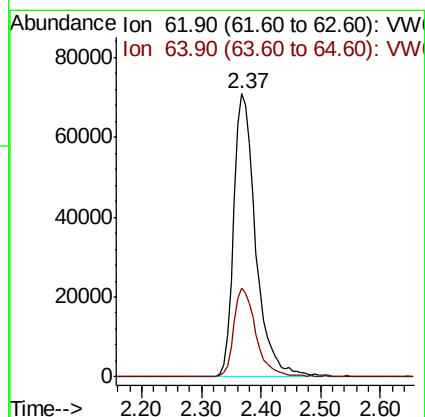
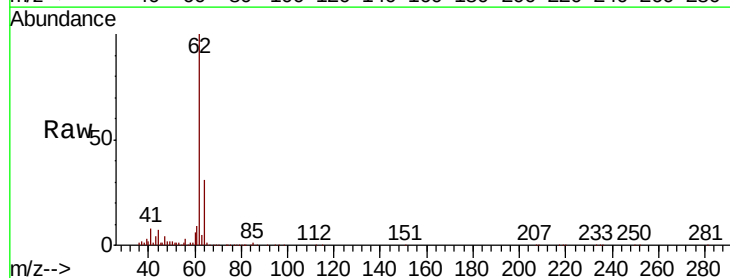
Acq: 11 Aug 2018 01:08

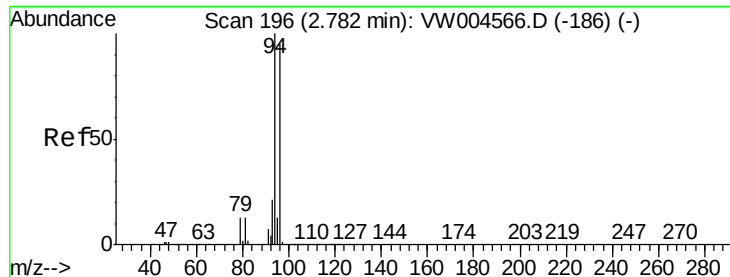
Tgt Ion: 62 Resp: 181851

Ion Ratio Lower Upper

62 100

64 31.1 26.2 39.2





#5

Bromomethane

Concen: 22.315 ug/l

RT: 2.78 min Scan# 196

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

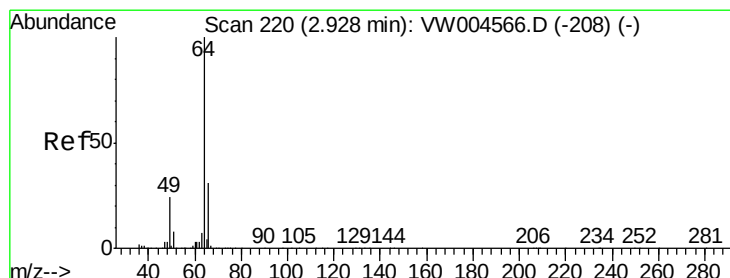
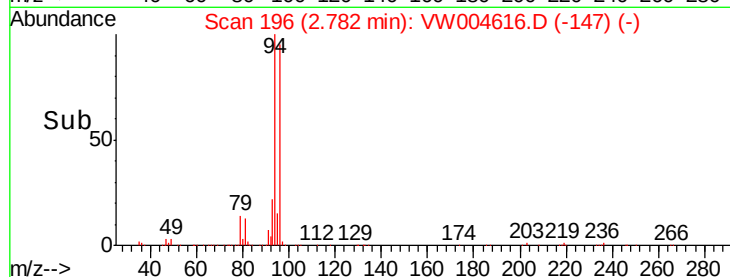
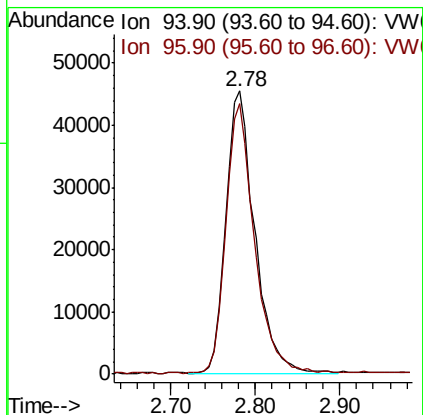
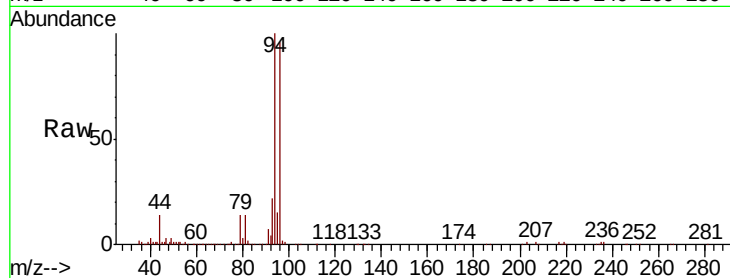
BFB

Tgt Ion: 94 Resp: 106027

Ion Ratio Lower Upper

94 100

96 95.4 72.9 109.3



#6

Chloroethane

Concen: 22.016 ug/l

RT: 2.92 min Scan# 219

Delta R.T. 0.00 min

Lab File: VW004616.D

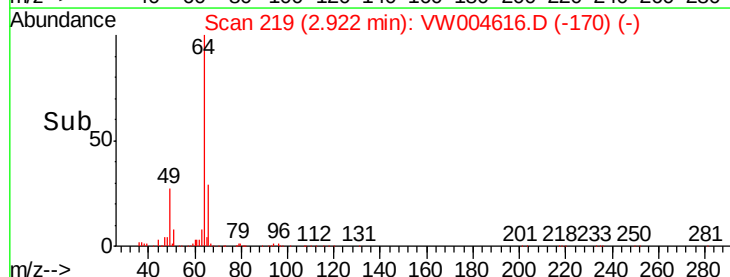
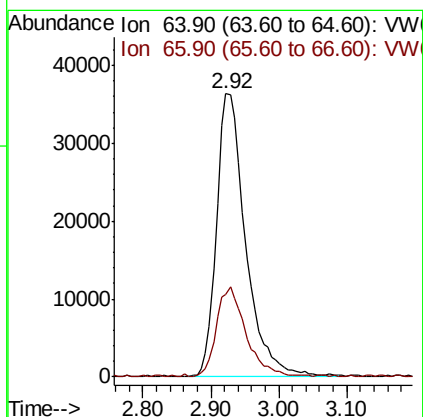
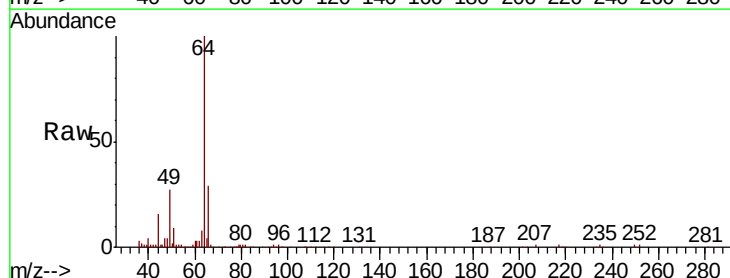
Acq: 11 Aug 2018 01:08

Tgt Ion: 64 Resp: 107350

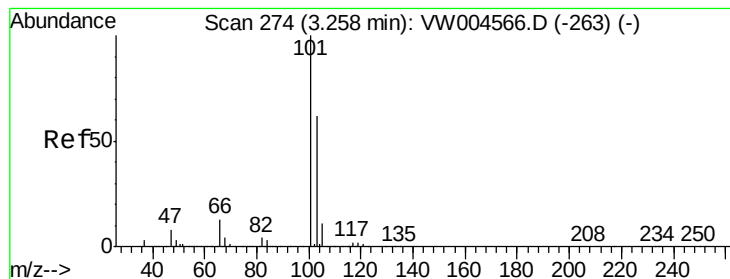
Ion Ratio Lower Upper

64 100

66 29.1 24.6 36.8





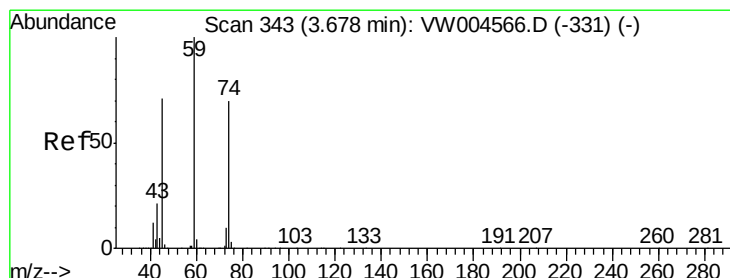
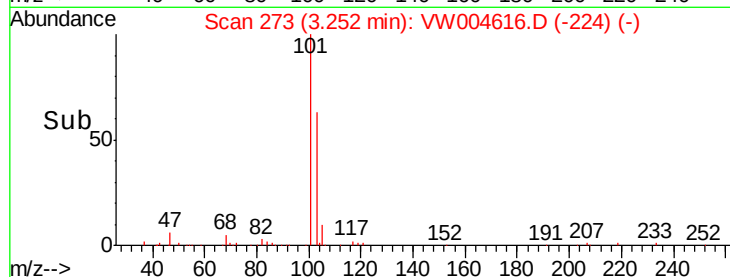
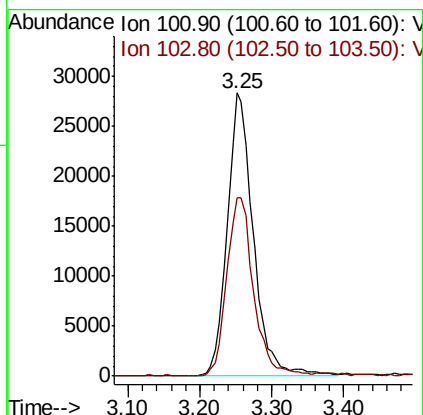
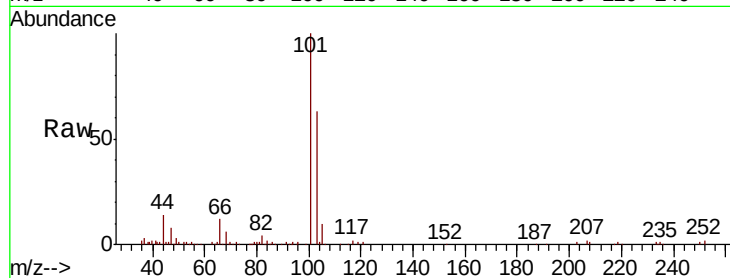


#7

Trichlorofluoromethane  
 Concen: 23.714 ug/l  
 RT: 3.25 min Scan# 273  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

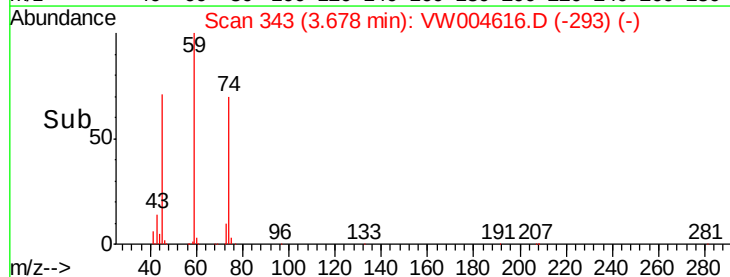
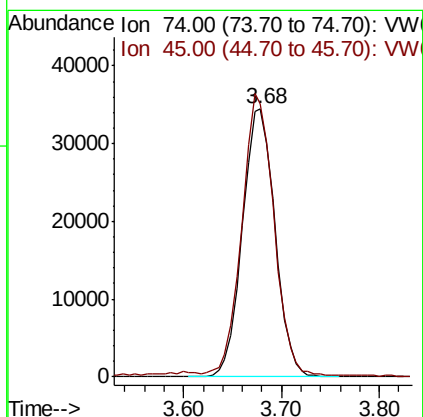
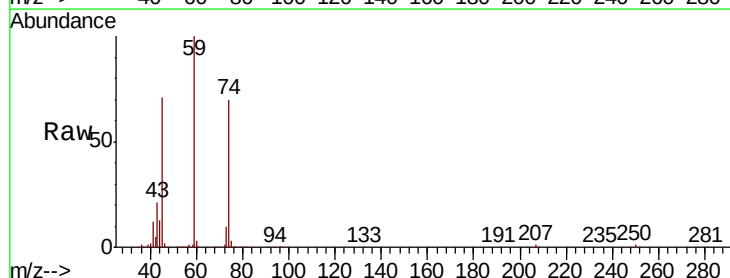
Tgt Ion: 101 Resp: 71472  
 Ion Ratio Lower Upper  
 101 100  
 103 62.9 49.8 74.8



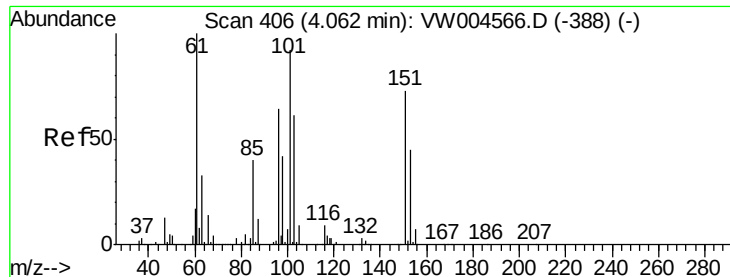
#8

Diethyl Ether  
 Concen: 20.930 ug/l  
 RT: 3.68 min Scan# 343  
 Delta R.T. 0.01 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion: 74 Resp: 79797  
 Ion Ratio Lower Upper  
 74 100  
 45 103.1 51.2 153.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.598 ug/l

RT: 4.06 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

BFB

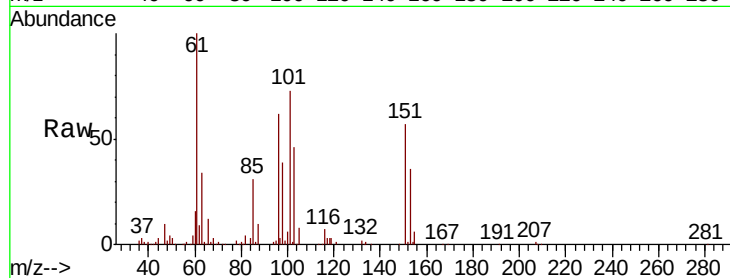
Tgt Ion:101 Resp: 143773

Ion Ratio Lower Upper

101 100

85 41.5 34.6 51.8

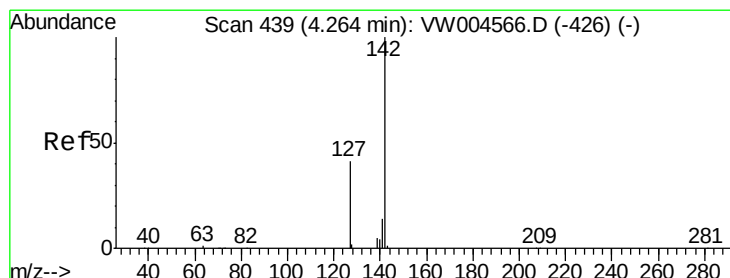
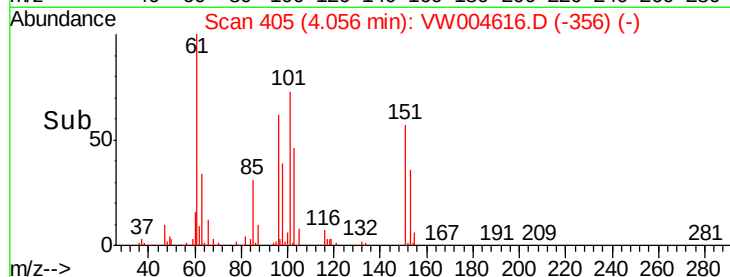
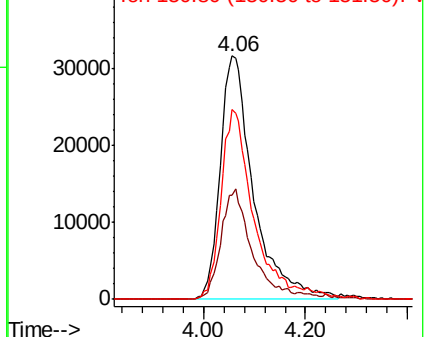
151 74.2 61.3 91.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 21.733 ug/l

RT: 4.26 min Scan# 439

Delta R.T. -0.01 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

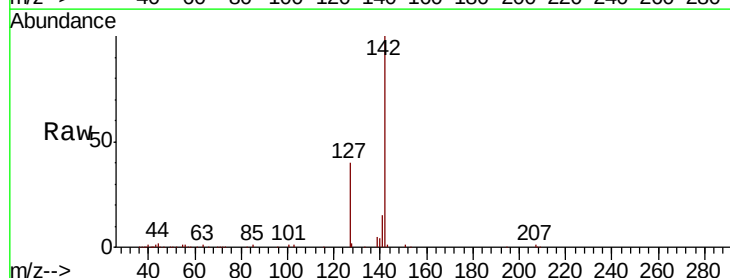
Tgt Ion:142 Resp: 217060

Ion Ratio Lower Upper

142 100

127 41.4 32.7 49.1

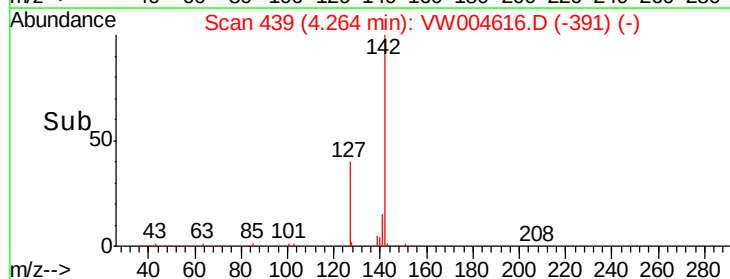
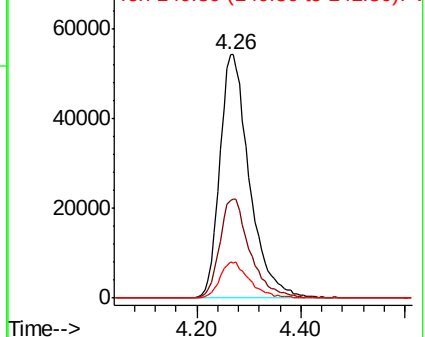
141 14.9 11.5 17.3

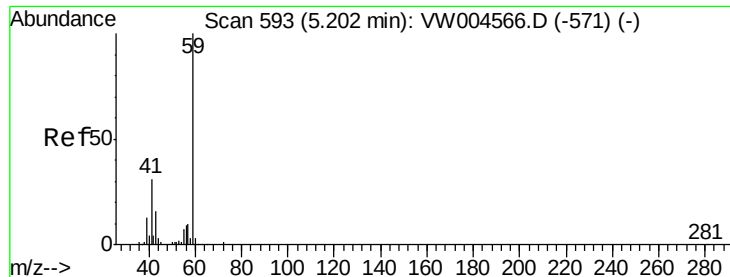


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



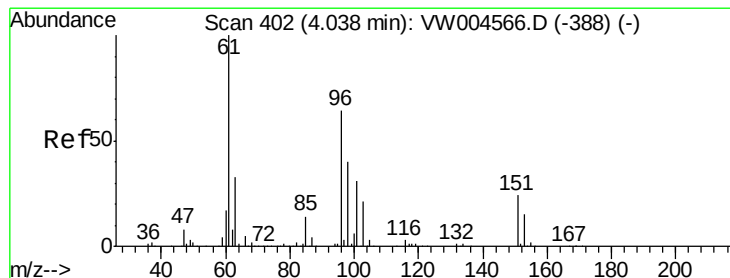
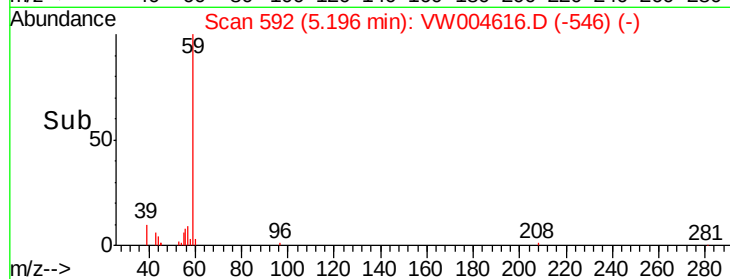
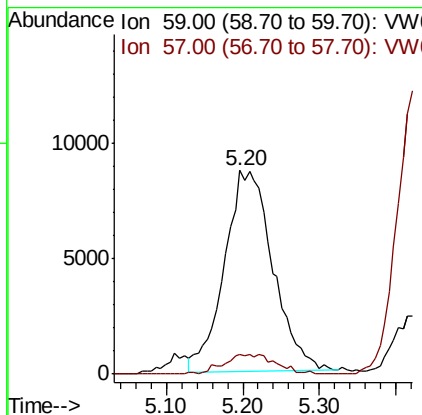
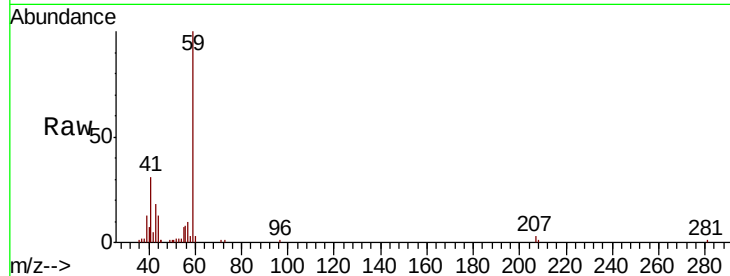


#11

Tert butyl alcohol  
Concen: 97.118 ug/l  
RT: 5.20 min Scan# 592  
Delta R.T. -0.02 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

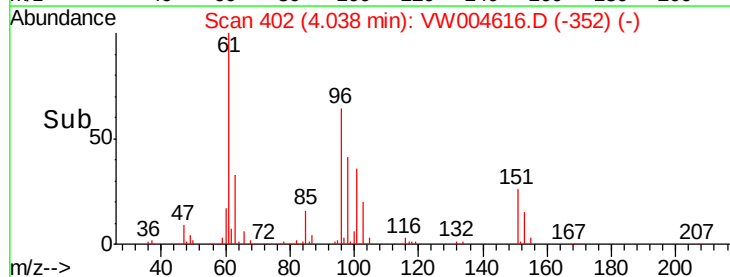
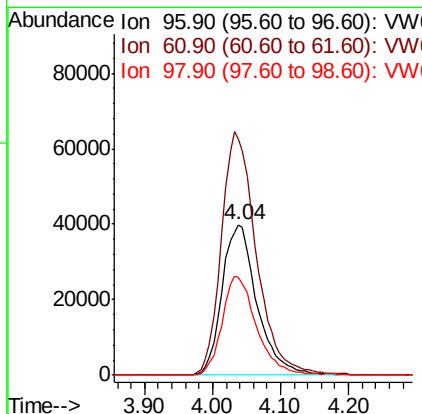
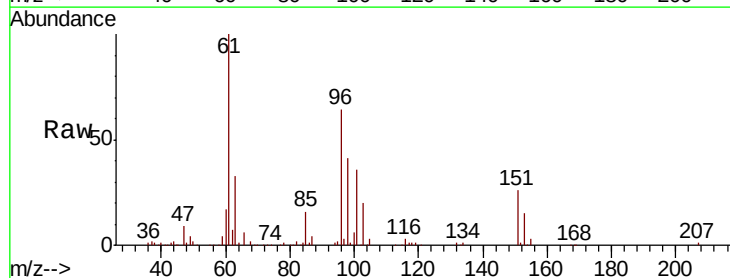
Tgt Ion: 59 Resp: 38460  
Ion Ratio Lower Upper  
59 100  
57 10.4 9.1 13.7

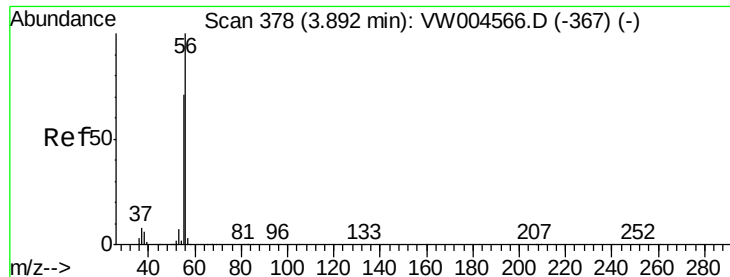


#12

1,1-Dichloroethene  
Concen: 21.035 ug/l  
RT: 4.04 min Scan# 402  
Delta R.T. 0.01 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 96 Resp: 140943  
Ion Ratio Lower Upper  
96 100  
61 156.8 130.6 195.8  
98 64.8 49.6 74.4





#13

Acrolein

Concen: 94.325 ug/l

RT: 3.89 min Scan# 378

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

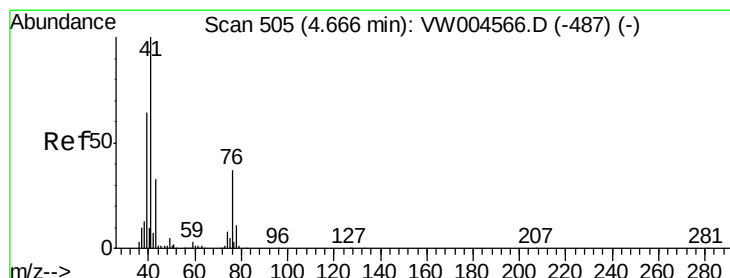
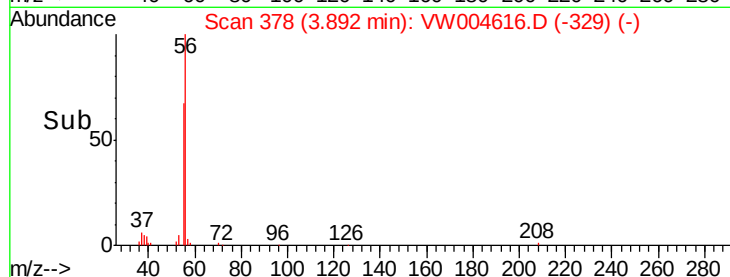
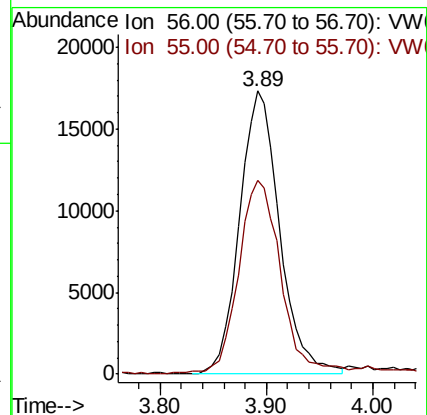
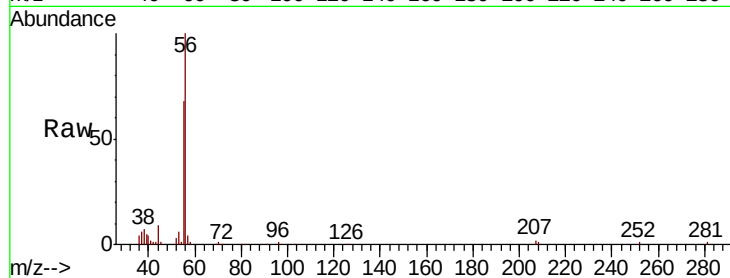
BFB

Tgt Ion: 56 Resp: 45768

Ion Ratio Lower Upper

56 100

55 72.1 56.7 85.1



#14

Allyl chloride

Concen: 21.729 ug/l

RT: 4.66 min Scan# 504

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

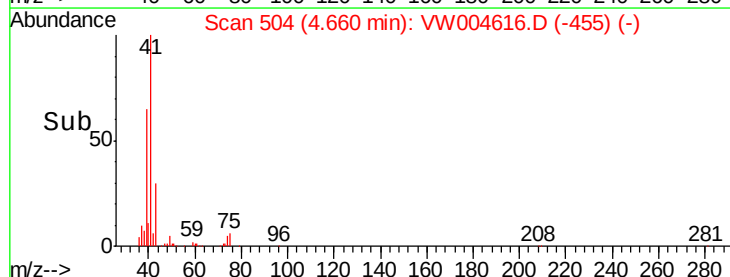
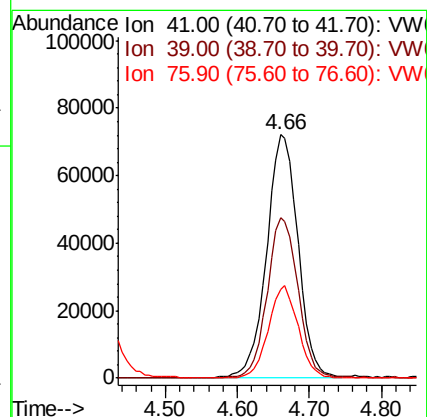
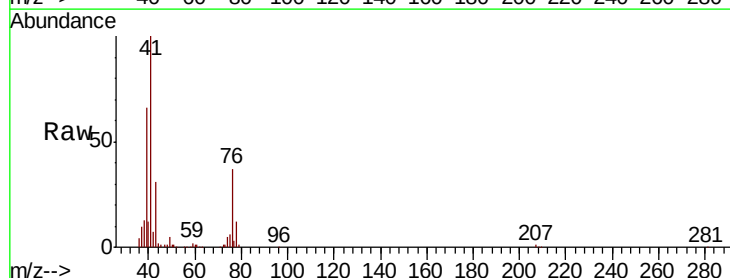
Tgt Ion: 41 Resp: 218745

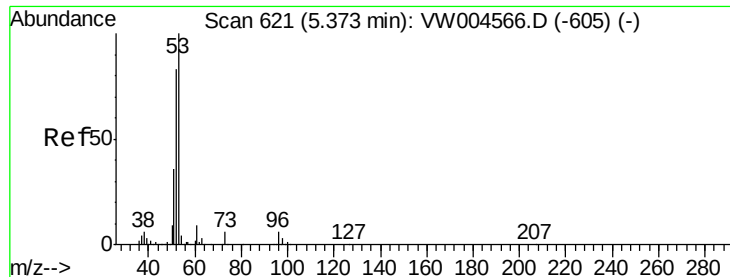
Ion Ratio Lower Upper

41 100

39 64.8 51.9 77.9

76 35.6 29.0 43.6





#15

Acrylonitrile

Concen: 100.718 ug/l

RT: 5.37 min Scan# 621

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

BFB

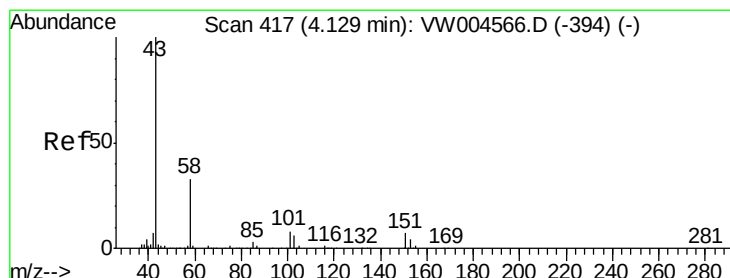
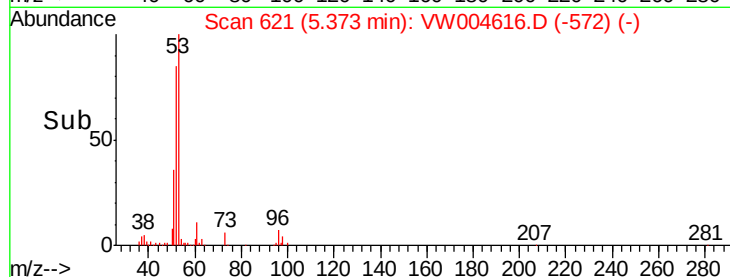
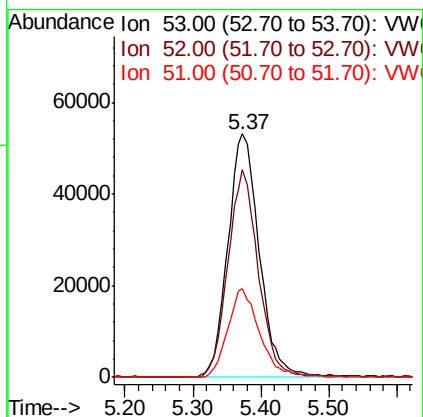
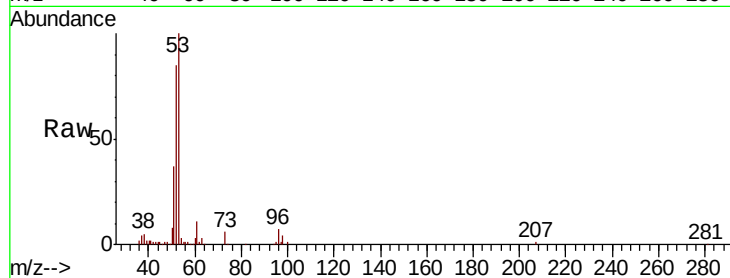
Tgt Ion: 53 Resp: 170645

Ion Ratio Lower Upper

53 100

52 82.2 66.5 99.7

51 36.9 28.4 42.6



#16

Acetone

Concen: 101.996 ug/l

RT: 4.13 min Scan# 417

Delta R.T. -0.01 min

Lab File: VW004616.D

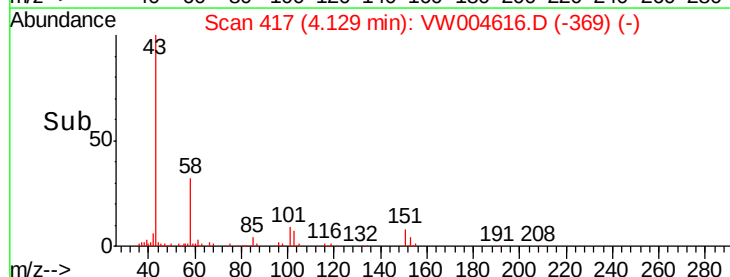
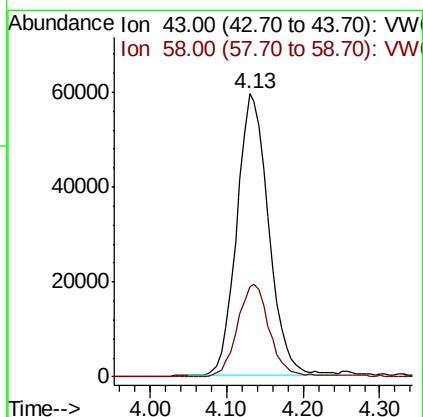
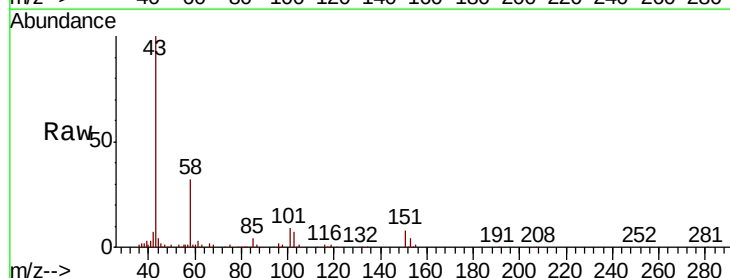
Acq: 11 Aug 2018 01:08

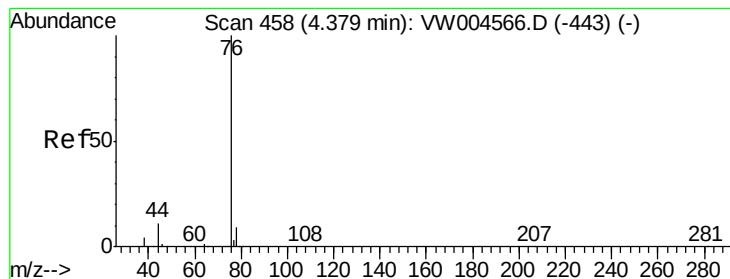
Tgt Ion: 43 Resp: 172279

Ion Ratio Lower Upper

43 100

58 31.5 26.8 40.2





#17

Carbon Disulfide

Concen: 21.533 ug/l

RT: 4.38 min Scan# 458

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

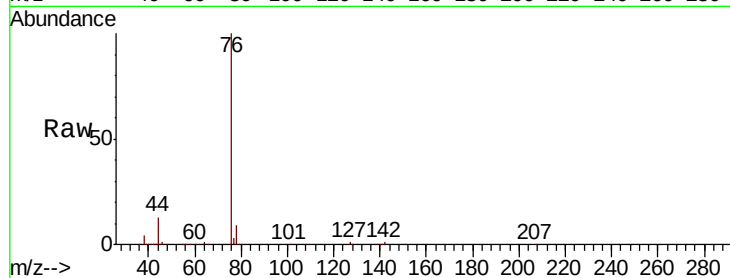
BFB

Tgt Ion: 76 Resp: 463661

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.4



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.38

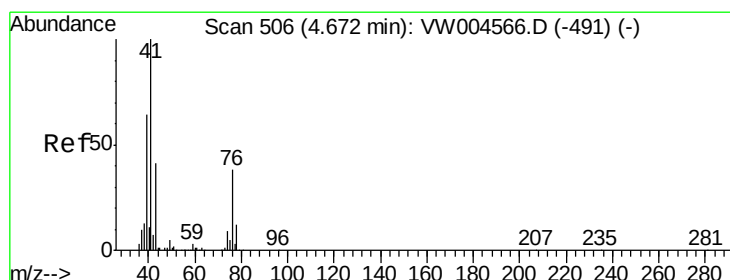
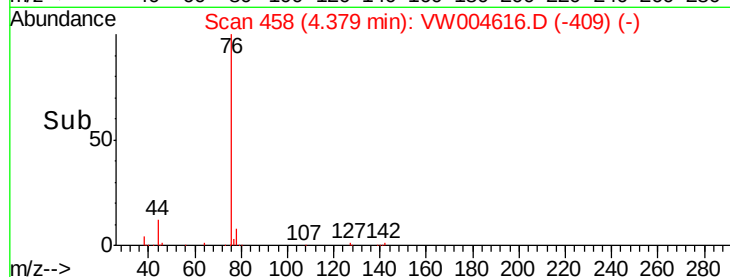
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 19.879 ug/l

RT: 4.68 min Scan# 507

Delta R.T. 0.01 min

Lab File: VW004616.D

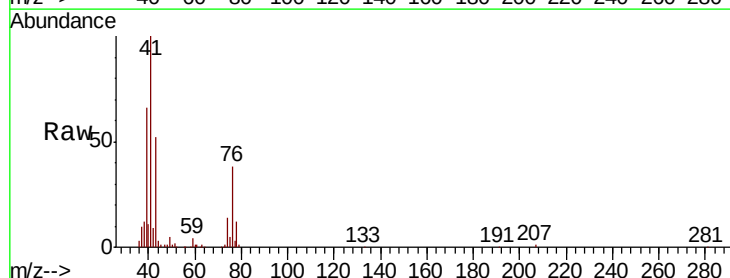
Acq: 11 Aug 2018 01:08

Tgt Ion: 43 Resp: 83728

Ion Ratio Lower Upper

43 100

74 23.0 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.68

30000

25000

20000

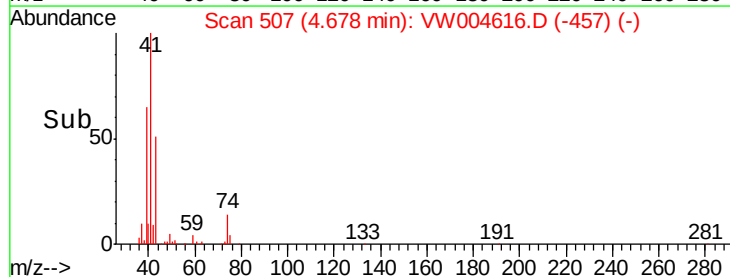
15000

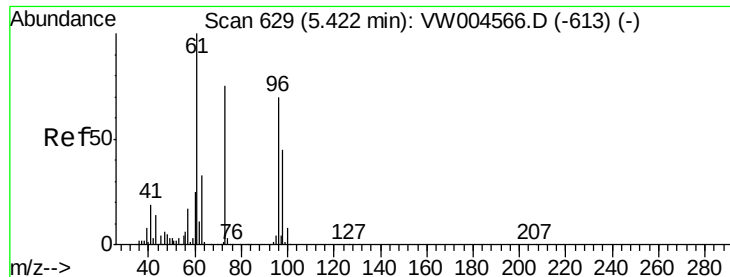
10000

5000

0

Time-->

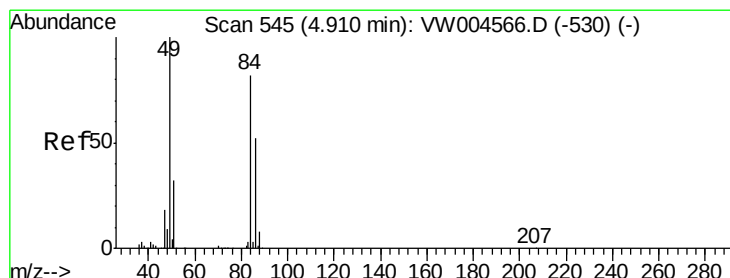
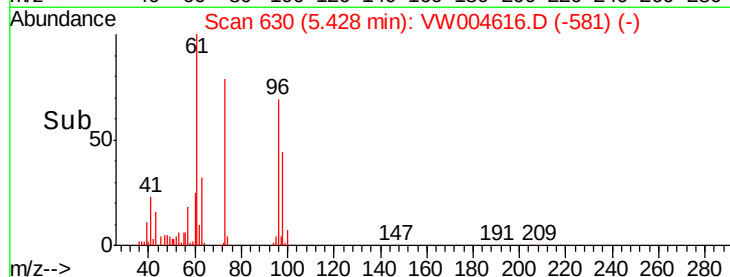
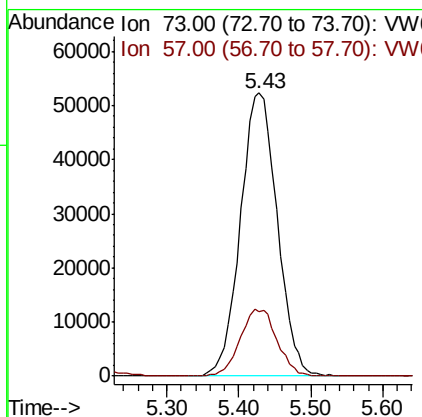
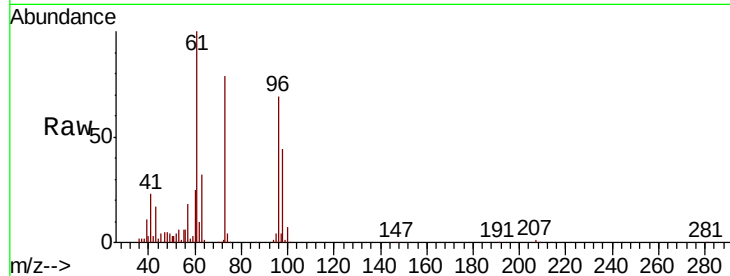




#19  
Methyl tert-butyl Ether  
Concen: 20.345 ug/l  
RT: 5.43 min Scan# 630  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

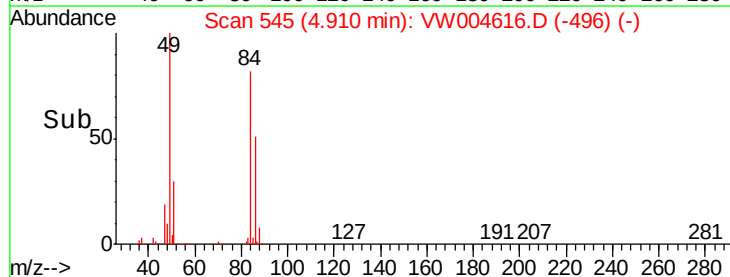
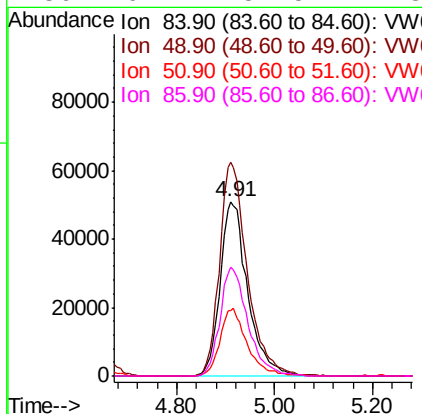
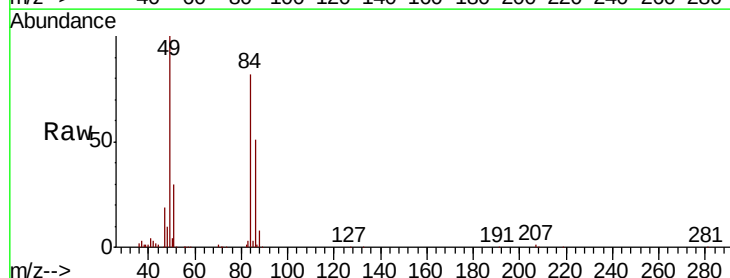
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

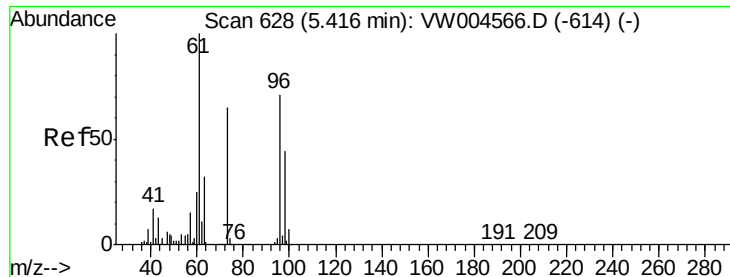
Tgt Ion: 73 Resp: 185939  
Ion Ratio Lower Upper  
73 100  
57 22.6 19.6 29.4



#20  
Methylene Chloride  
Concen: 18.577 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 84 Resp: 199189  
Ion Ratio Lower Upper  
84 100  
49 122.4 99.6 149.4  
51 37.2 31.0 46.4  
86 62.7 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 21.199 ug/l

RT: 5.42 min Scan# 628

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampled :

BFB

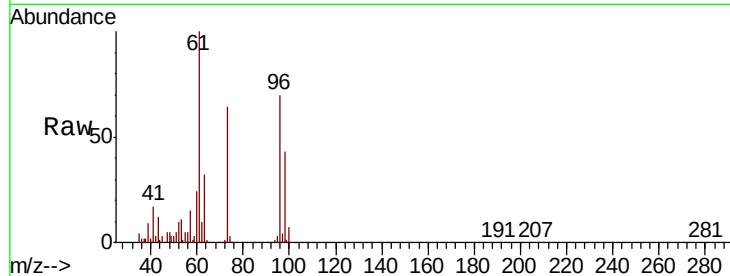
Tgt Ion: 96 Resp: 153068

Ion Ratio Lower Upper

96 100

61 142.1 114.1 171.1

98 61.2 51.4 77.2

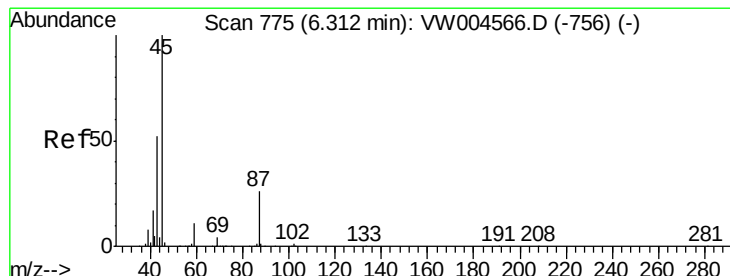
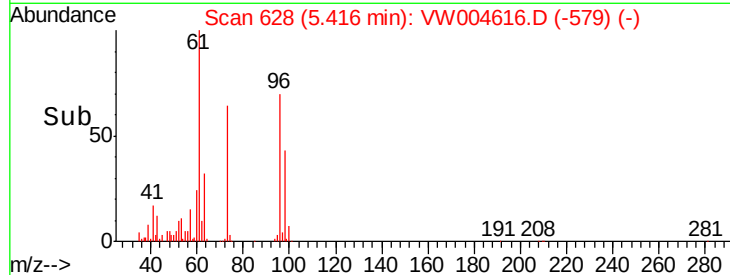
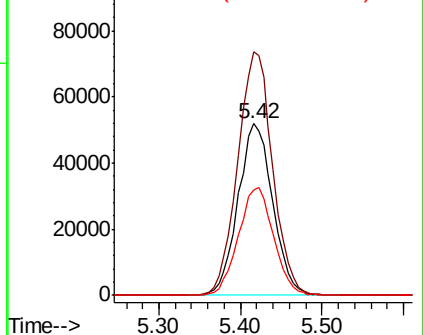


Abundance

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: 22.340 ug/l

RT: 6.31 min Scan# 775

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Tgt Ion: 45 Resp: 462151

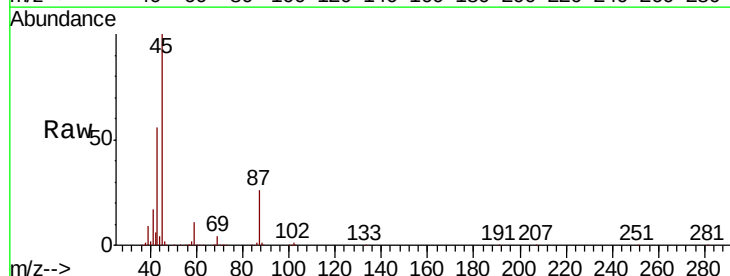
Ion Ratio Lower Upper

45 100

43 55.8 42.4 63.6

87 25.4 21.6 32.4

59 11.2 9.6 14.4



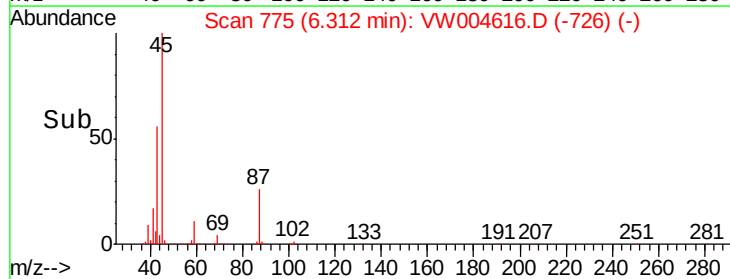
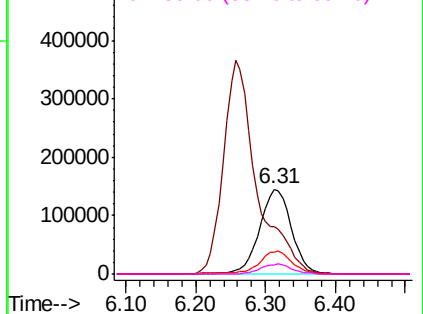
Abundance

Ion 45.00 (44.70 to 45.70): VW

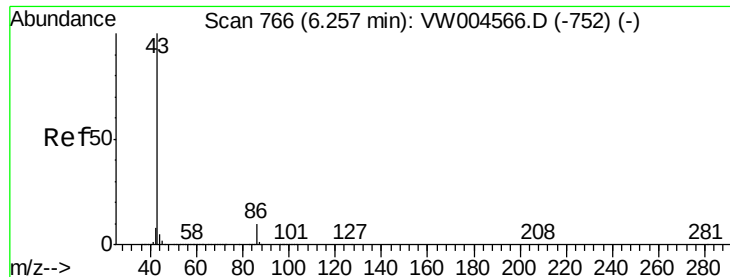
Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW







#23

Vinyl Acetate

Concen: 97.306 ug/l

RT: 6.26 min Scan# 766

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

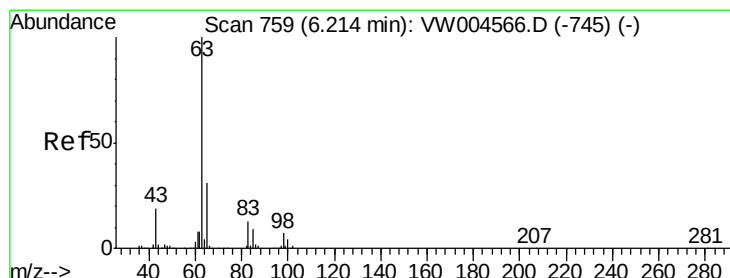
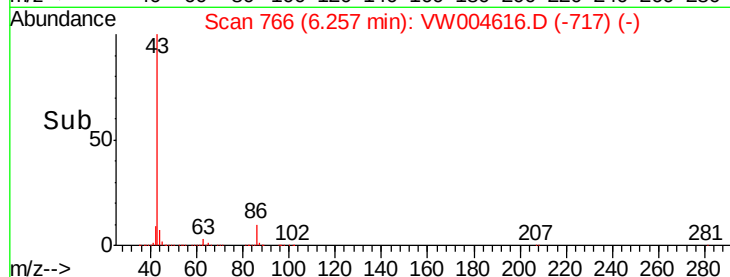
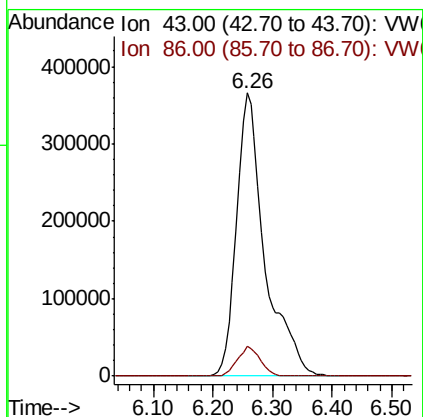
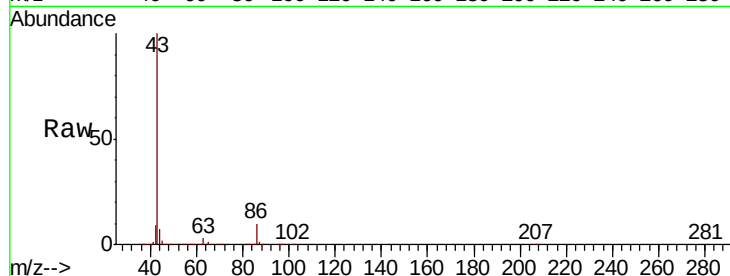
BFB

Tgt Ion: 43 Resp: 1209823

Ion Ratio Lower Upper

43 100

86 10.5 7.9 11.9



#24

1,1-Dichloroethane

Concen: 21.504 ug/l

RT: 6.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

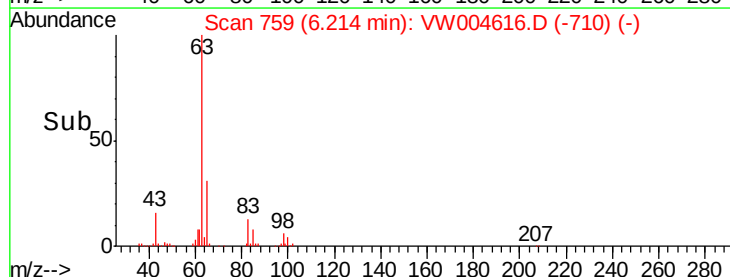
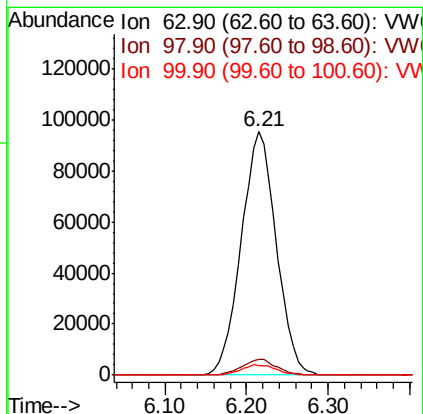
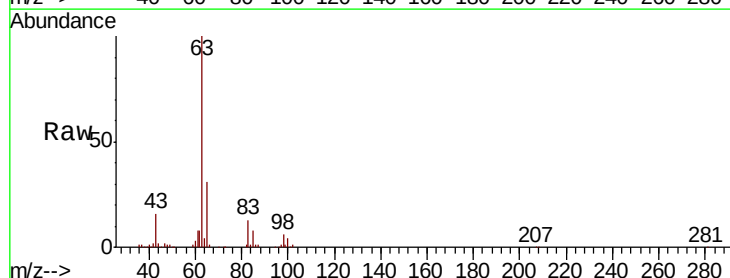
Tgt Ion: 63 Resp: 284745

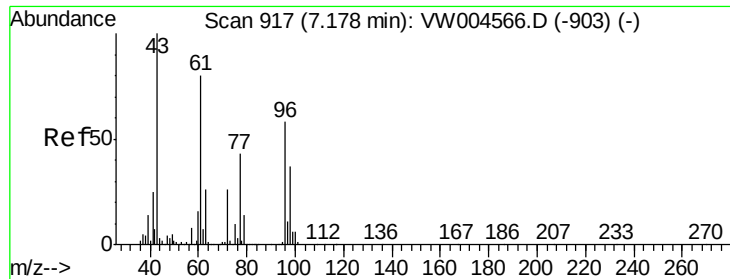
Ion Ratio Lower Upper

63 100

98 6.4 3.1 9.3

100 3.9 2.1 6.5





#25

2-Butanone

Concen: 94.199 ug/l

RT: 7.18 min Scan# 917

Delta R.T. -0.01 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampled :

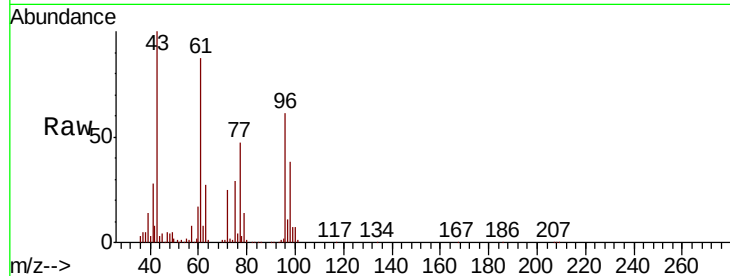
BFB

Tgt Ion: 43 Resp: 255940

Ion Ratio Lower Upper

43 100

72 25.3 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.18

100000

80000

60000

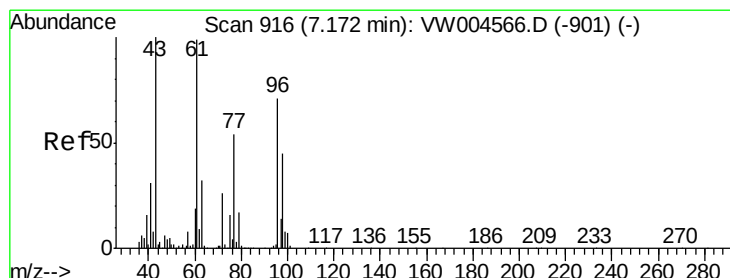
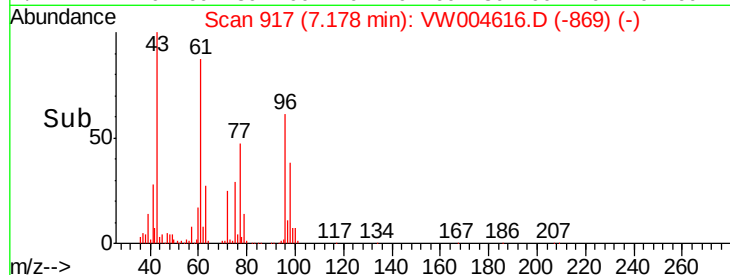
40000

20000

0

7.10 7.15 7.20 7.25

Time-->



#26

2,2-Dichloropropane

Concen: 20.954 ug/l

RT: 7.17 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW004616.D

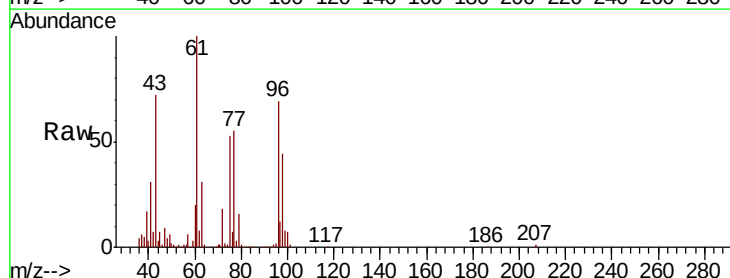
Acq: 11 Aug 2018 01:08

Tgt Ion: 77 Resp: 145623

Ion Ratio Lower Upper

77 100

97 23.8 12.5 37.5



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.17

50000

40000

30000

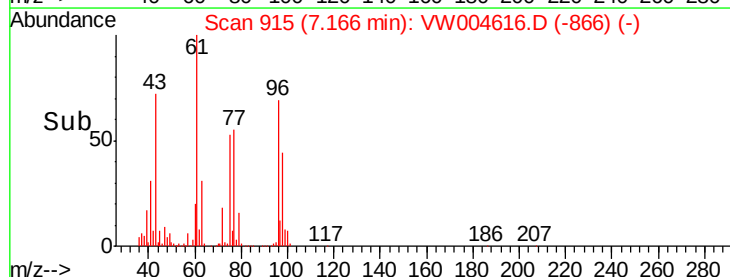
20000

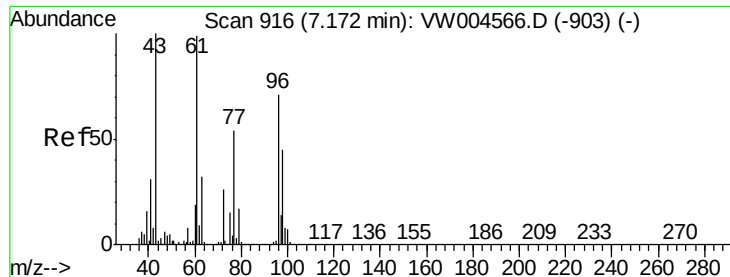
10000

0

7.00 7.10 7.20 7.30

Time-->



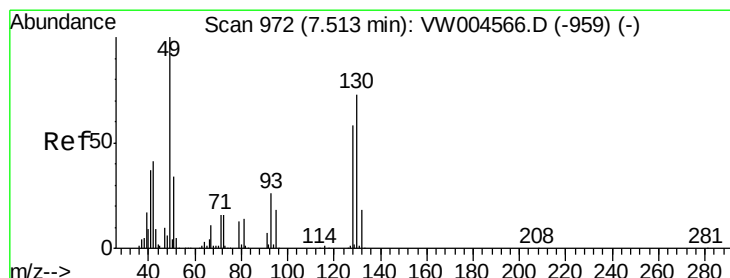
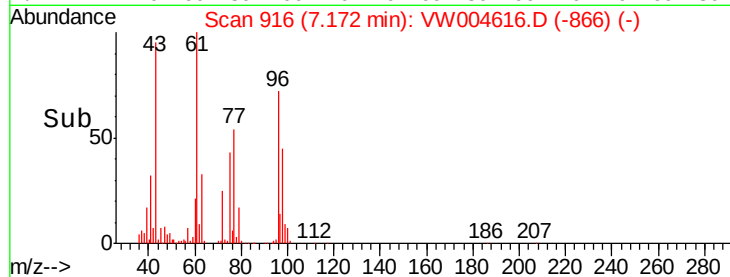
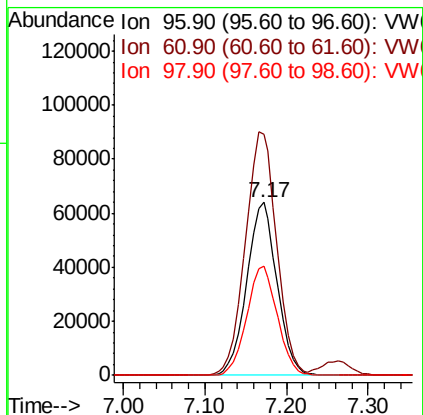
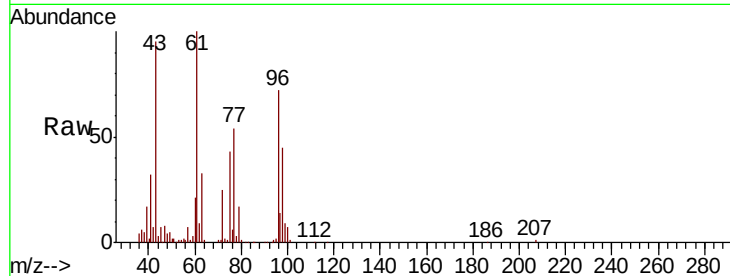


#27

cis-1,2-Dichloroethene  
 Concen: 21.330 ug/l  
 RT: 7.17 min Scan# 916  
 Delta R.T. 0.01 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

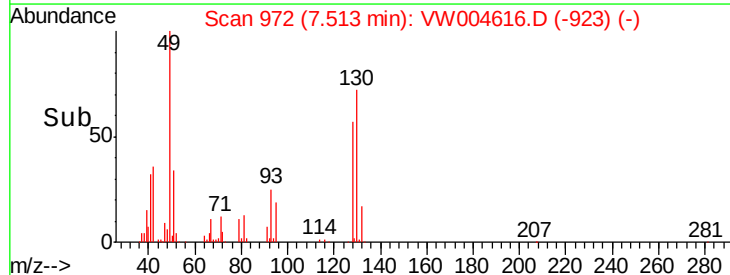
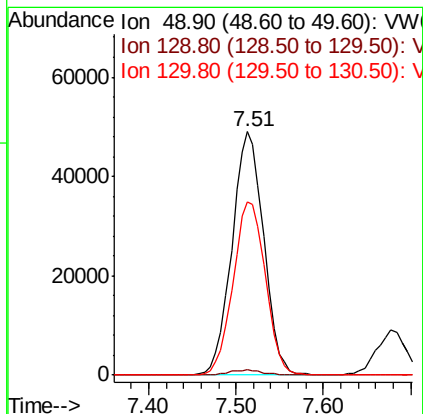
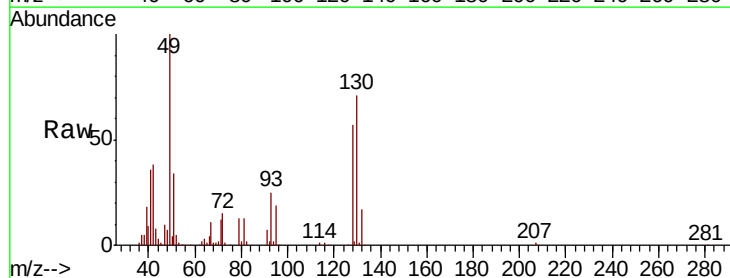
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 145.3 | 0.0   | 285.0 |
| 98      | 63.7  | 0.0   | 128.6 |

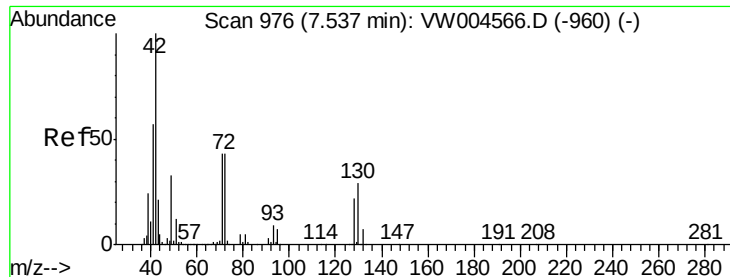


#28

Bromochloromethane  
 Concen: 21.344 ug/l  
 RT: 7.51 min Scan# 972  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.2   | 0.0   | 4.0   |
| 130     | 72.7  | 58.8  | 88.2  |





#29

Tetrahydrofuran

Concen: 95.383 ug/l

RT: 7.54 min Scan# 976

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

BFB

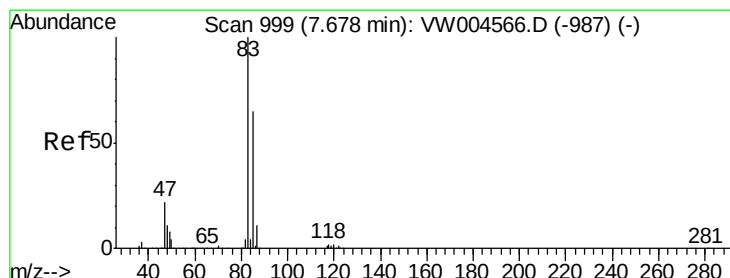
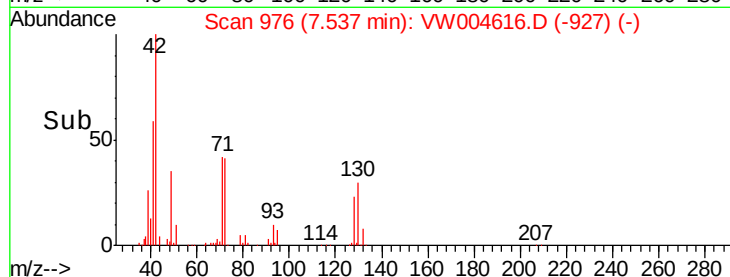
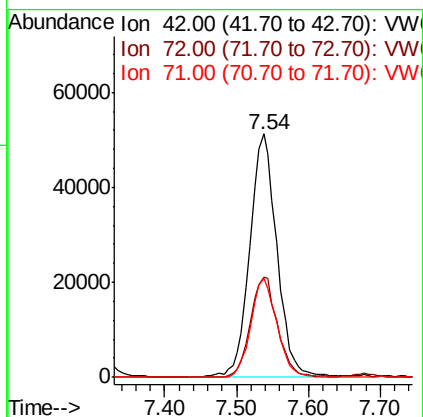
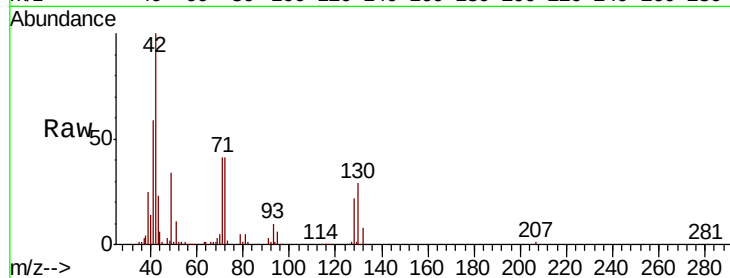
Tgt Ion: 42 Resp: 133978

Ion Ratio Lower Upper

42 100

72 41.3 34.1 51.1

71 39.3 32.5 48.7



#30

Chloroform

Concen: 21.368 ug/l

RT: 7.68 min Scan# 999

Delta R.T. 0.00 min

Lab File: VW004616.D

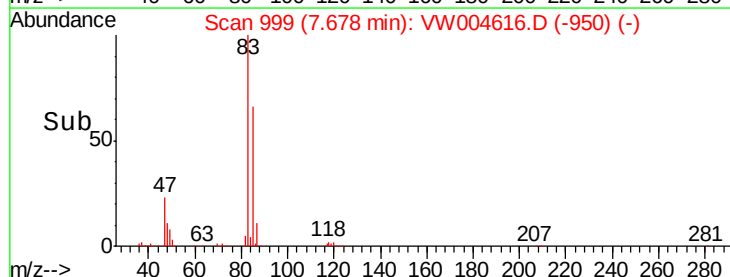
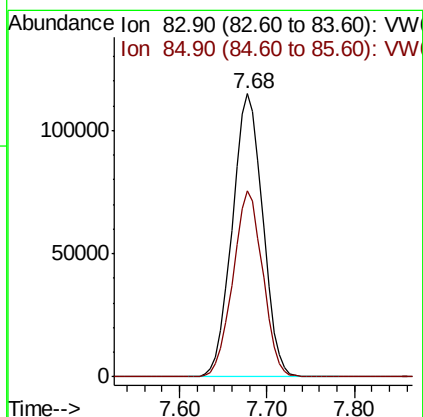
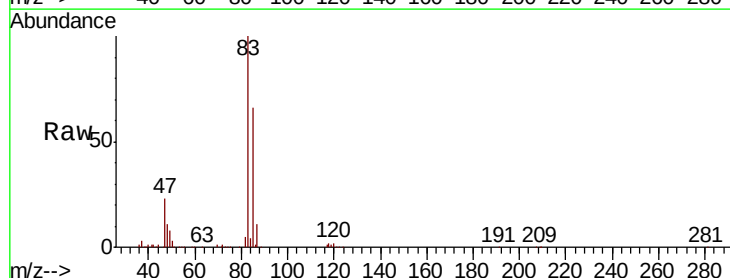
Acq: 11 Aug 2018 01:08

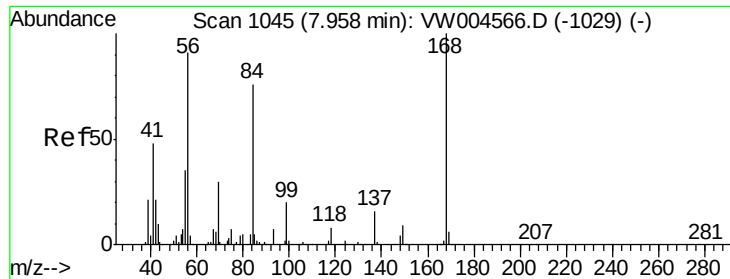
Tgt Ion: 83 Resp: 277908

Ion Ratio Lower Upper

83 100

85 65.9 51.3 76.9

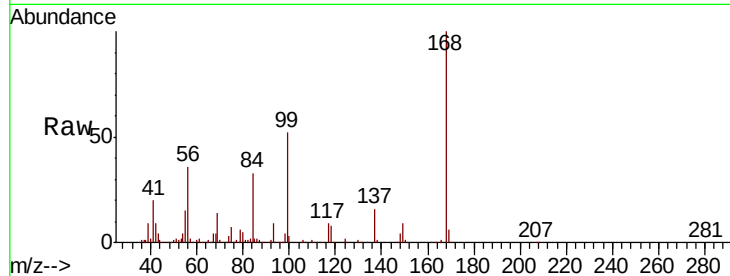




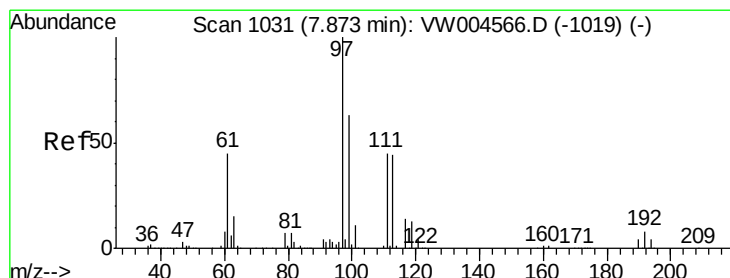
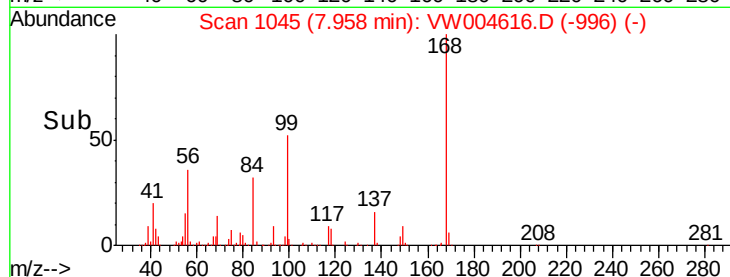
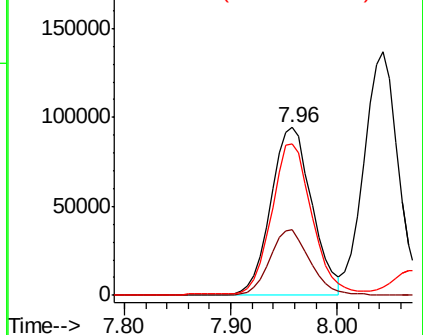
#31  
Cyclohexane  
Concen: 19.920 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

Tgt Ion: 56 Resp: 252379  
Ion Ratio Lower Upper  
56 100  
69 39.0 26.4 39.6  
84 89.3 66.9 100.3

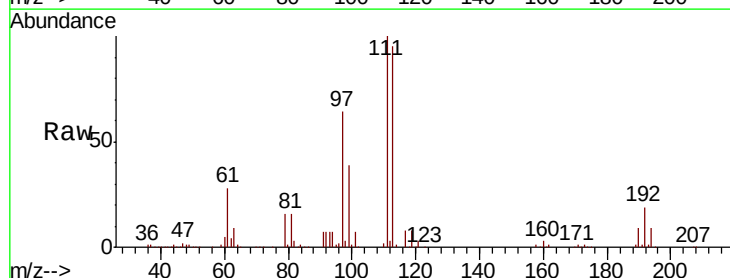


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

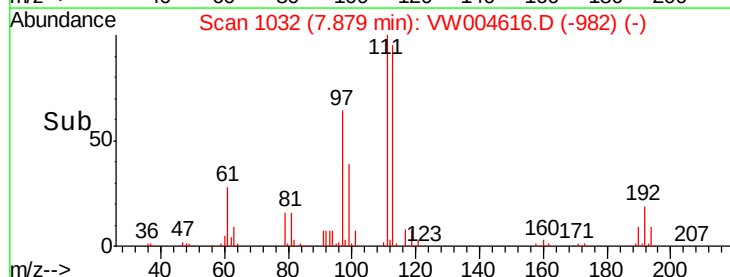
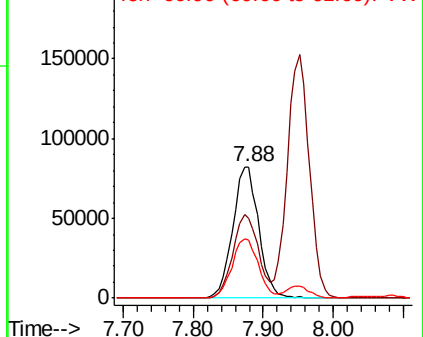


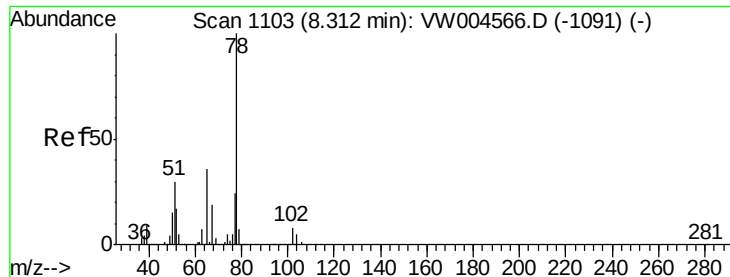
#32  
1,1,1-Trichloroethane  
Concen: 21.673 ug/l  
RT: 7.88 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 97 Resp: 211741  
Ion Ratio Lower Upper  
97 100  
99 62.6 51.6 77.4  
61 46.1 35.7 53.5



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

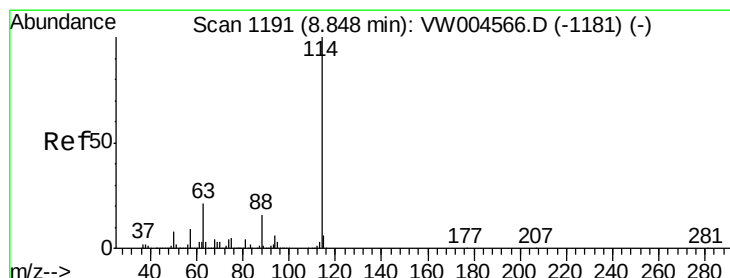
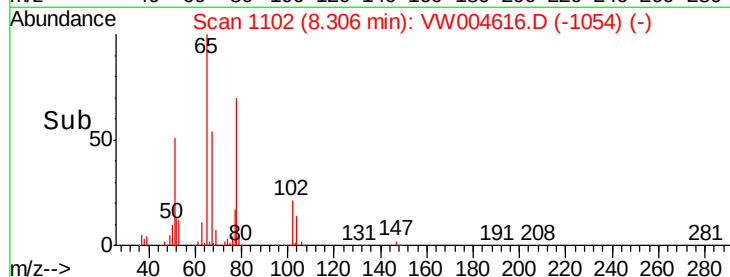
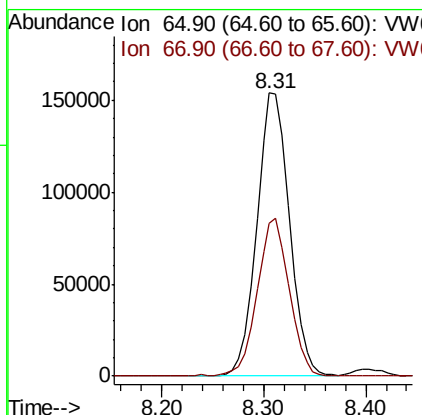
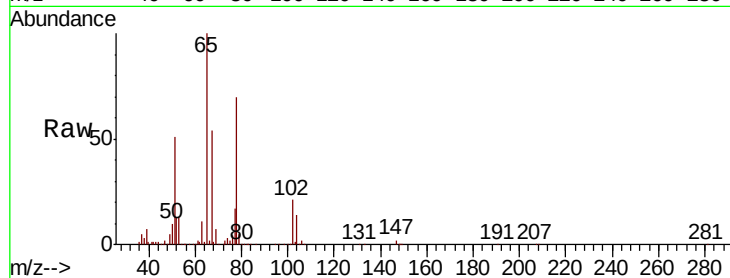




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.565 ug/l  
 RT: 8.31 min Scan# 1102  
 Delta R.T. -0.01 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

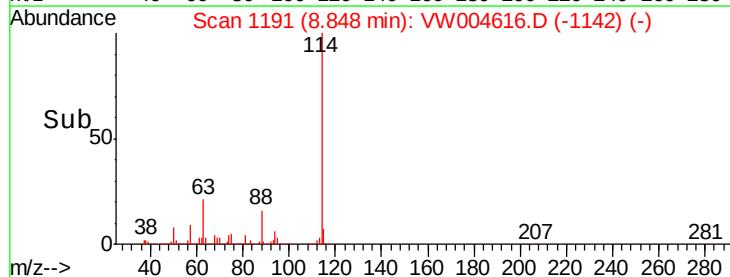
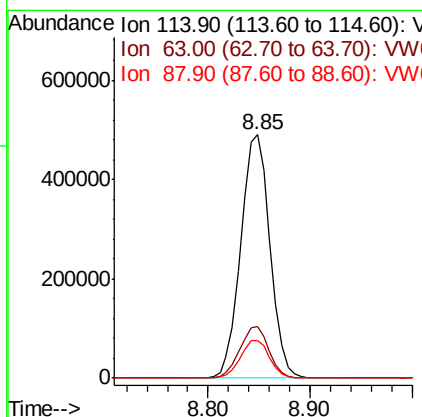
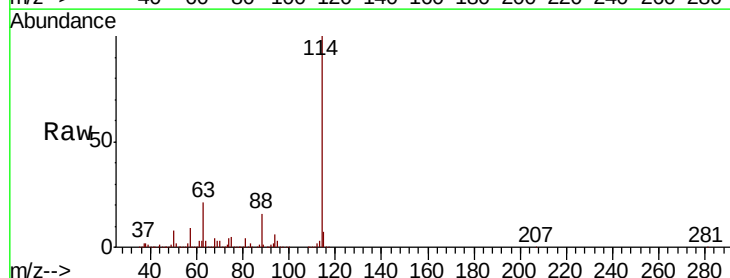
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

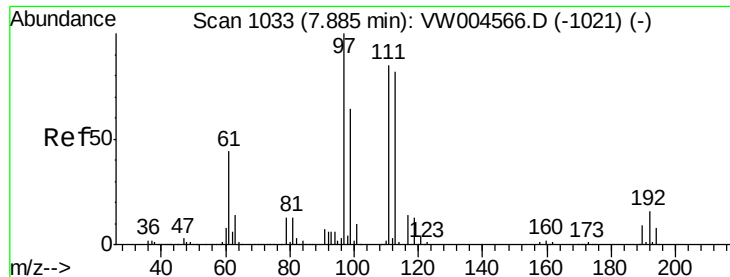
Tgt Ion: 65 Resp: 341999  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 109.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion: 114 Resp: 971183  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 42.4  
 88 15.7 0.0 31.2

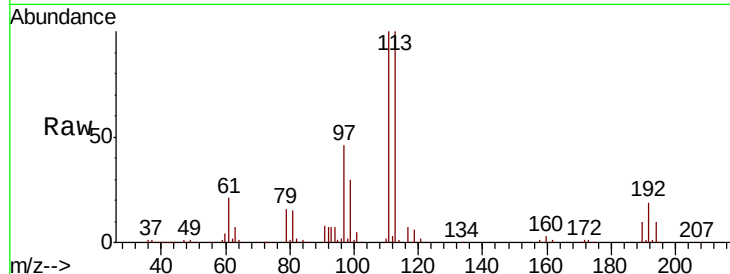




#35  
 Dibromofluoromethane  
 Concen: 51.188 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 82.9  | 124.3 |
| 192     | 20.2  | 15.8  | 23.6  |

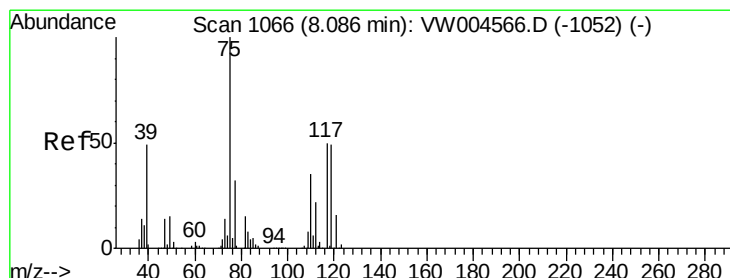
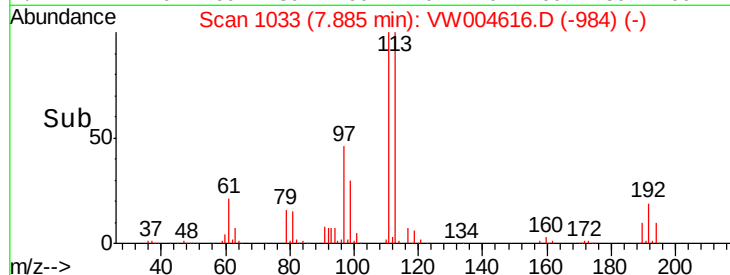
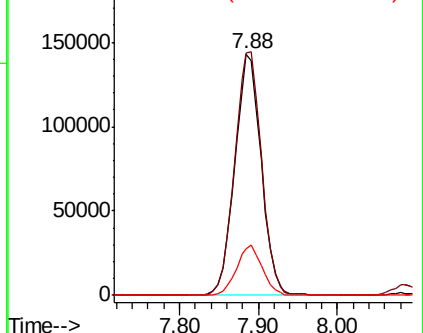


Abundance

Ion 112.80 (112.50 to 113.50): V

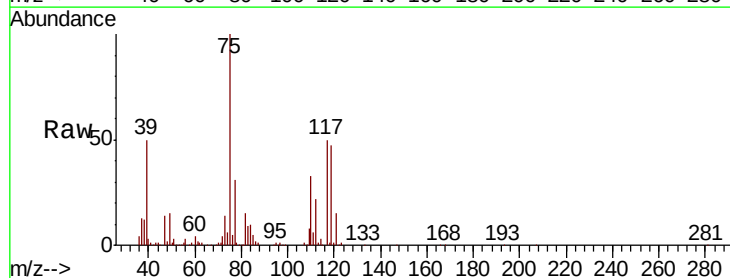
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36  
 1,1-Dichloropropene  
 Concen: 20.916 ug/l  
 RT: 8.09 min Scan# 1066  
 Delta R.T. 0.01 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 34.5  | 17.4  | 52.2  |
| 77      | 30.4  | 24.7  | 37.1  |

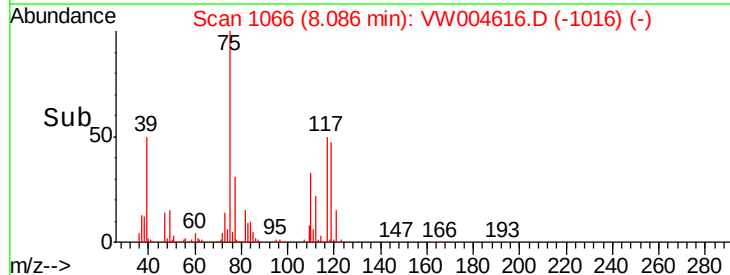
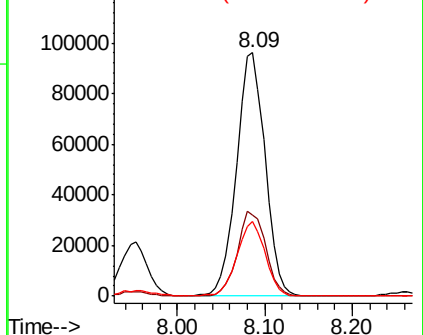


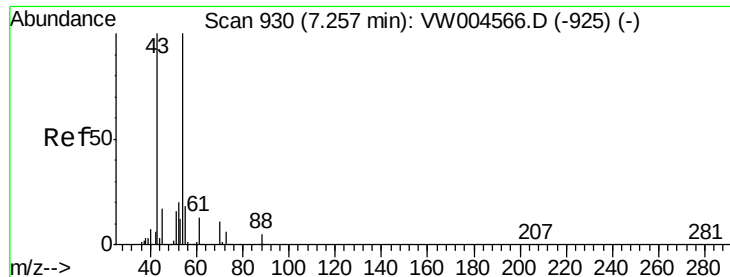
Abundance

Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

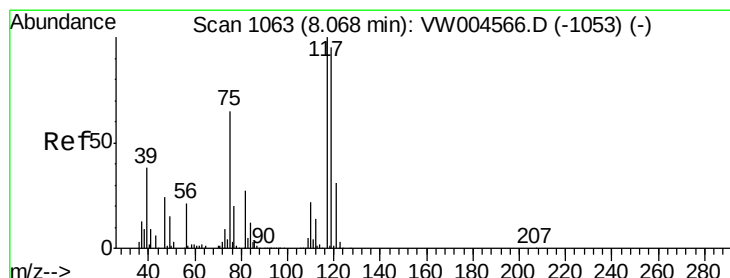
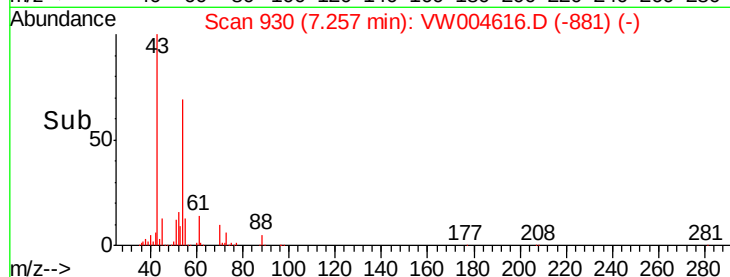
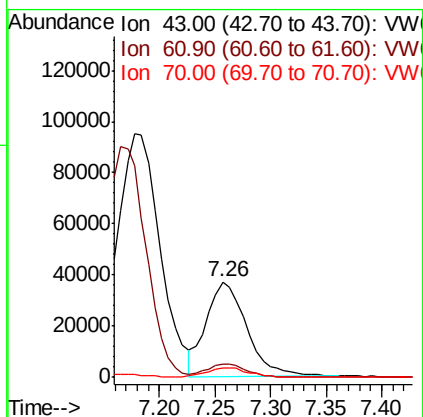
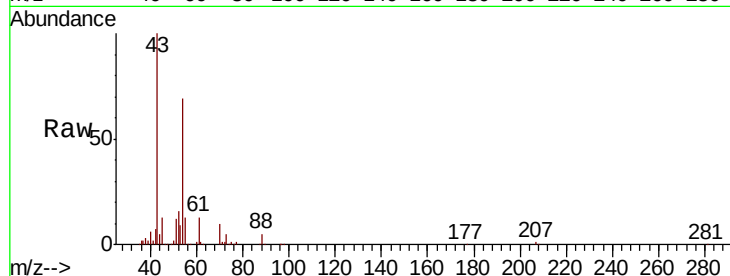




#37  
 Ethyl Acetate  
 Concen: 19.015 ug/l  
 RT: 7.26 min Scan# 930  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

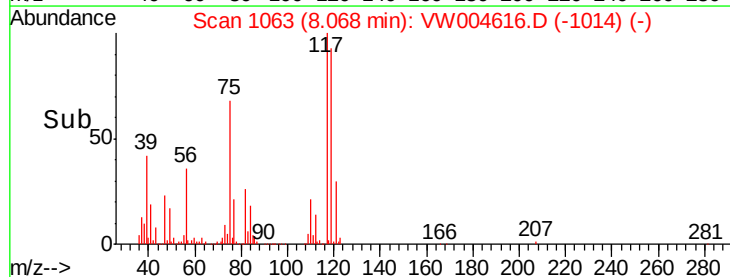
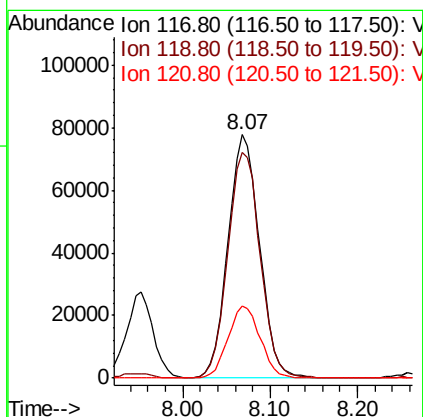
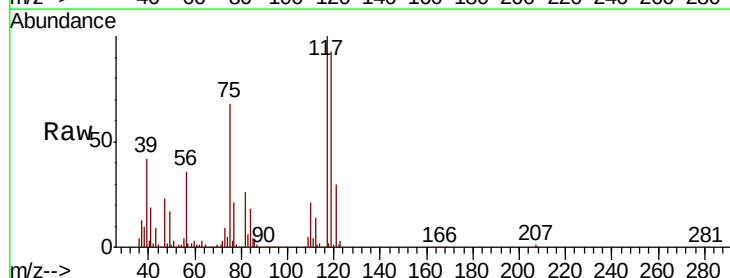
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

Tgt Ion: 43 Resp: 93124  
 Ion Ratio Lower Upper  
 43 100  
 61 13.9 11.9 17.9  
 70 10.6 8.2 12.4

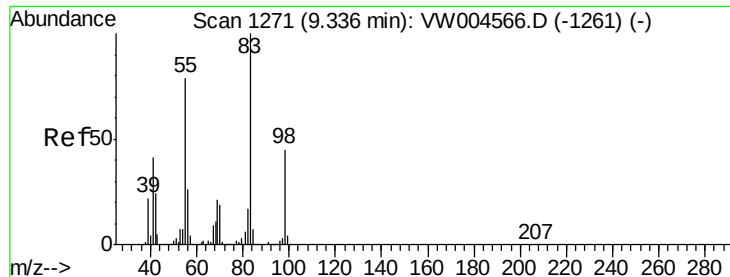


#38  
 Carbon Tetrachloride  
 Concen: 20.698 ug/l  
 RT: 8.07 min Scan# 1063  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion: 117 Resp: 194762  
 Ion Ratio Lower Upper  
 117 100  
 119 92.8 76.1 114.1  
 121 29.6 24.2 36.4



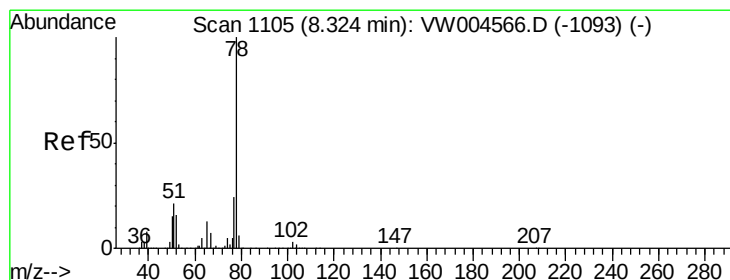
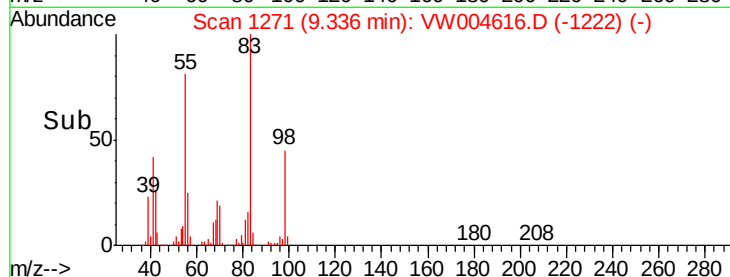
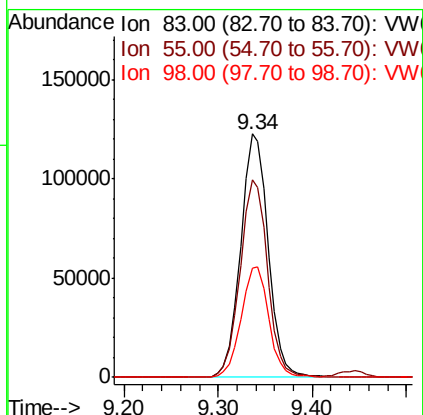
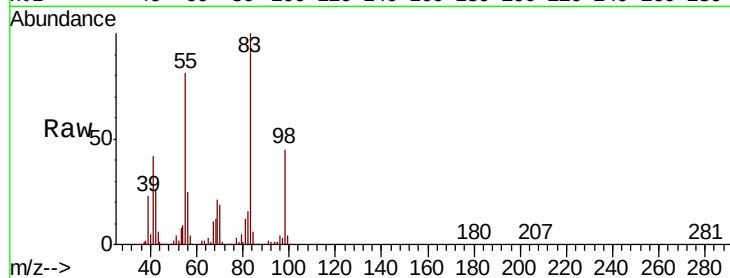




#39  
Methylcyclohexane  
Concen: 19.624 ug/l  
RT: 9.34 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

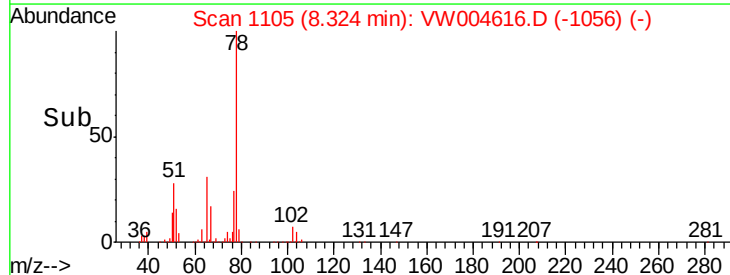
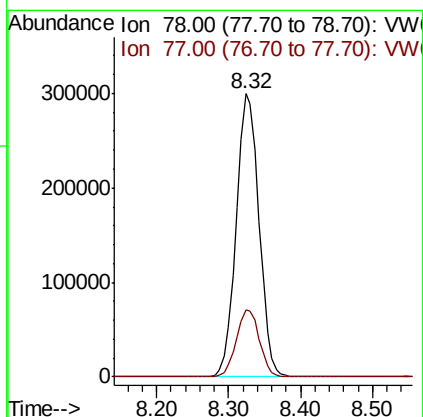
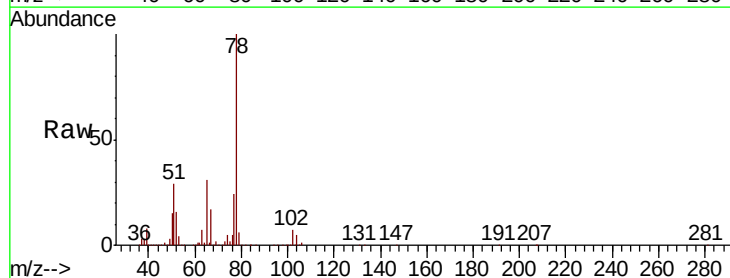
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

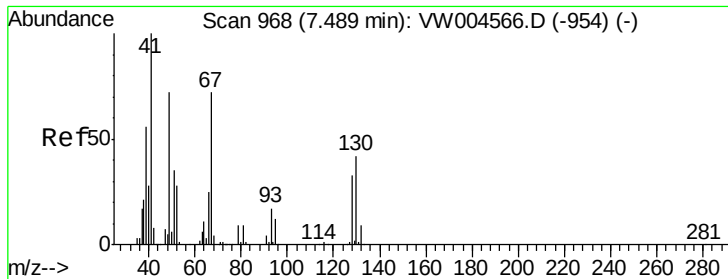
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 81.2  | 62.5  | 93.7  |
| 98      | 44.8  | 35.4  | 53.2  |



#40  
Benzene  
Concen: 21.396 ug/l  
RT: 8.32 min Scan# 1105  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.6  | 19.0  | 28.6  |





#41

Methacrylonitrile

Concen: 18.835 ug/l

RT: 7.49 min Scan# 968

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

BFB

Tgt Ion: 41 Resp: 51522

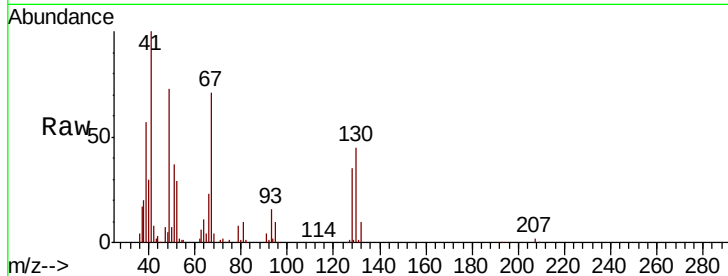
Ion Ratio Lower Upper

41 100

39 54.2 46.2 69.2

67 75.7 60.8 91.2

52 29.3 23.8 35.6

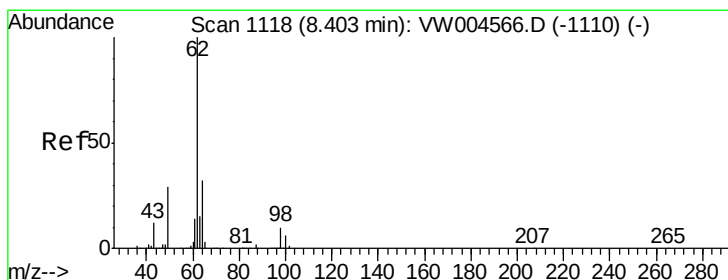
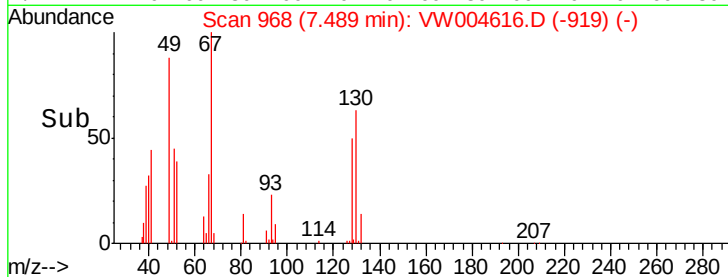
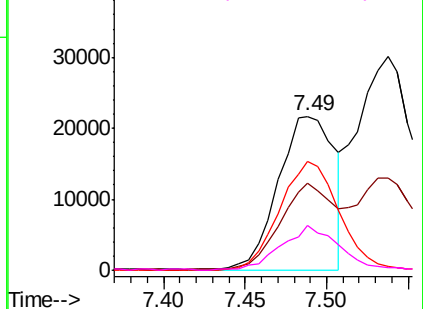


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 20.518 ug/l

RT: 8.40 min Scan# 1118

Delta R.T. 0.00 min

Lab File: VW004616.D

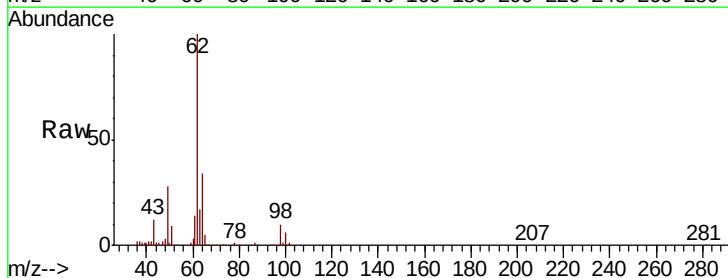
Acq: 11 Aug 2018 01:08

Tgt Ion: 62 Resp: 174320

Ion Ratio Lower Upper

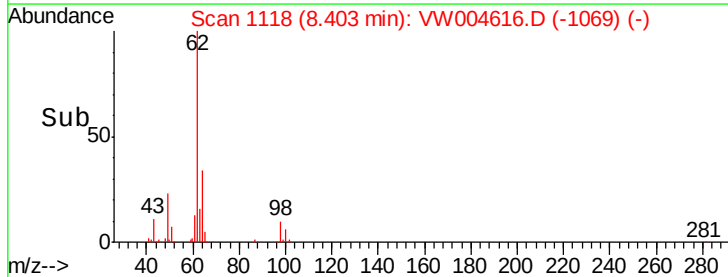
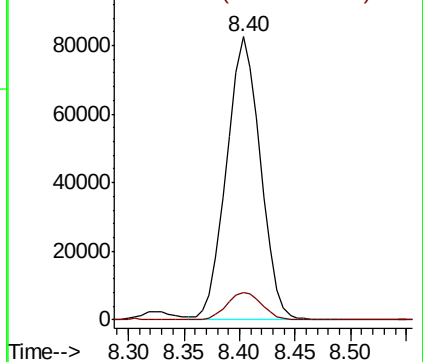
62 100

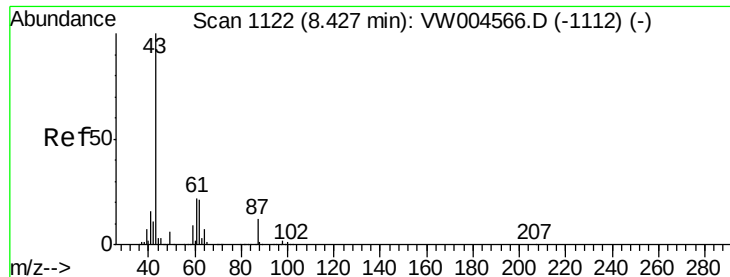
98 10.0 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW

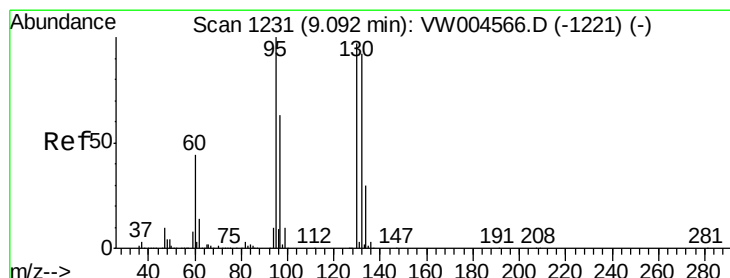
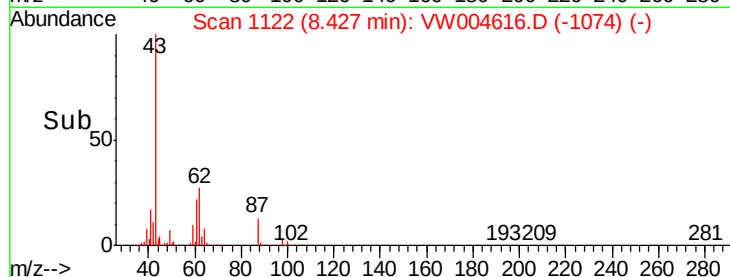
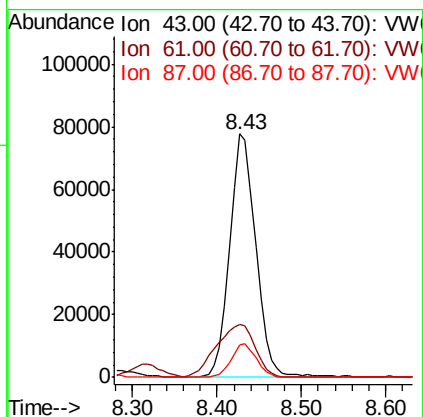
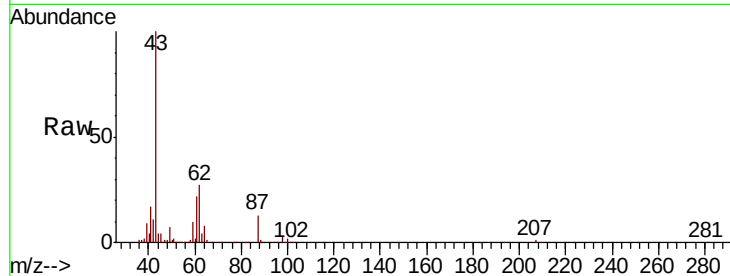




#43  
Isopropyl Acetate  
Concen: 19.075 ug/l  
RT: 8.43 min Scan# 1122  
Delta R.T. -0.01 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

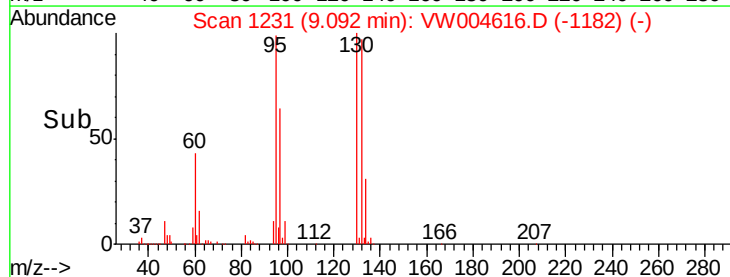
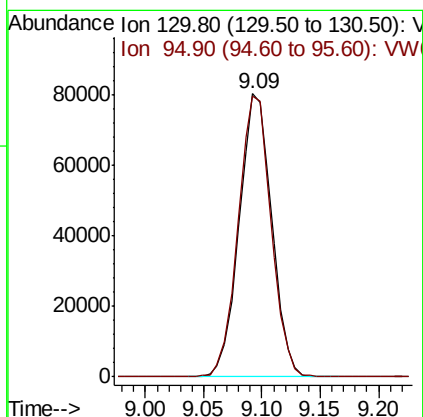
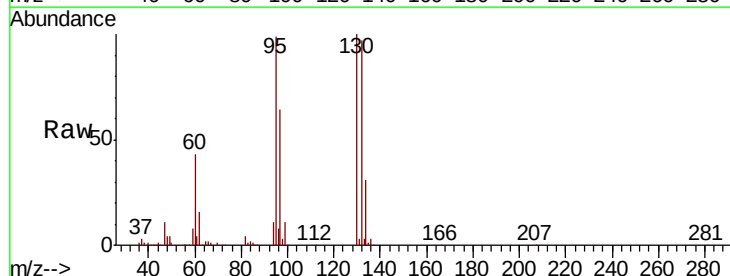
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

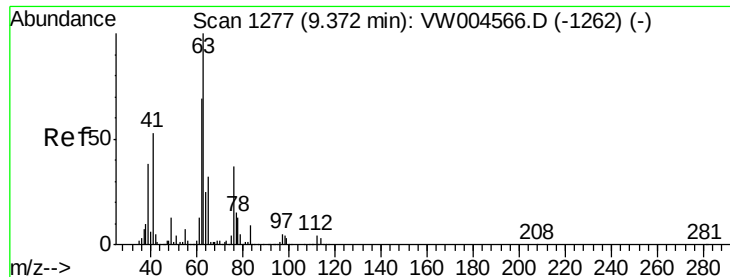
Tgt Ion: 43 Resp: 162838  
Ion Ratio Lower Upper  
43 100  
61 32.4 25.2 37.8  
87 13.4 10.6 16.0



#44  
Trichloroethene  
Concen: 20.758 ug/l  
RT: 9.09 min Scan# 1231  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 130 Resp: 156636  
Ion Ratio Lower Upper  
130 100  
95 99.4 0.0 196.2

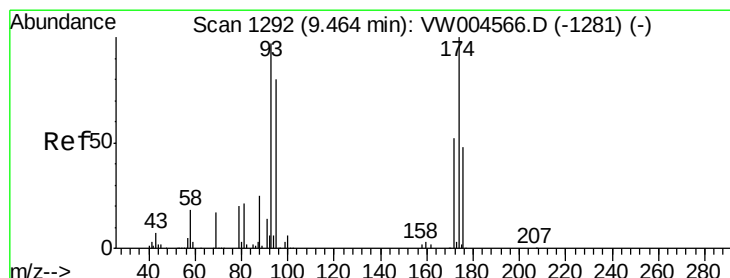
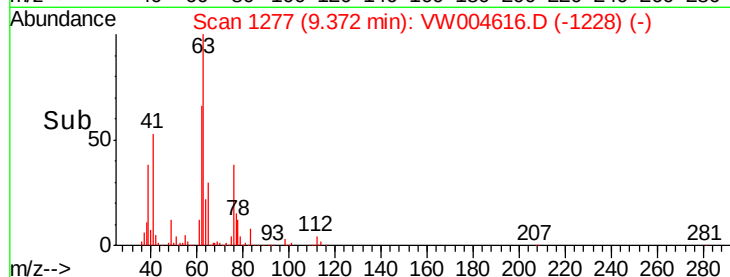
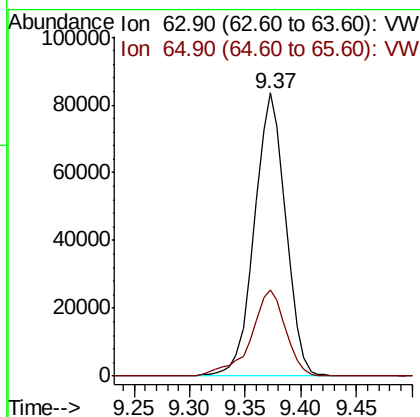
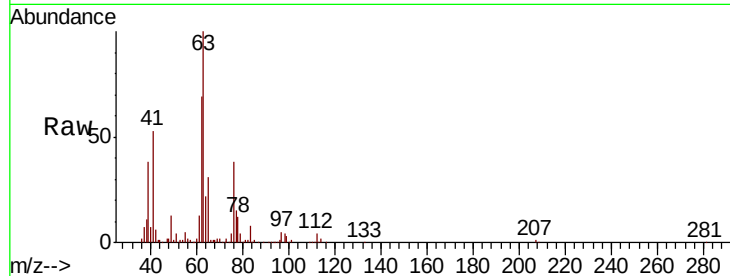




#45  
 1,2-Dichloropropane  
 Concen: 21.265 ug/l  
 RT: 9.37 min Scan# 1277  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

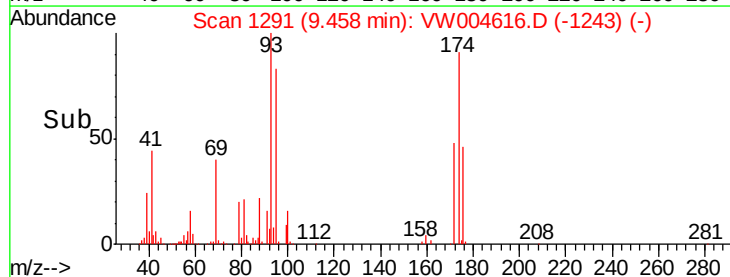
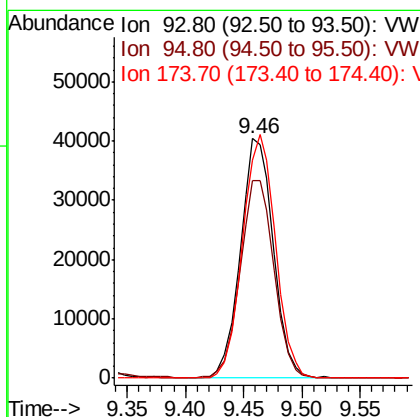
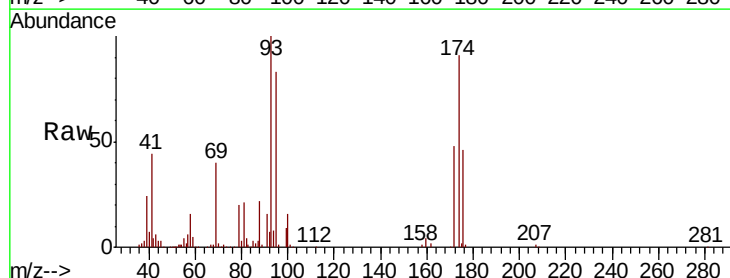
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

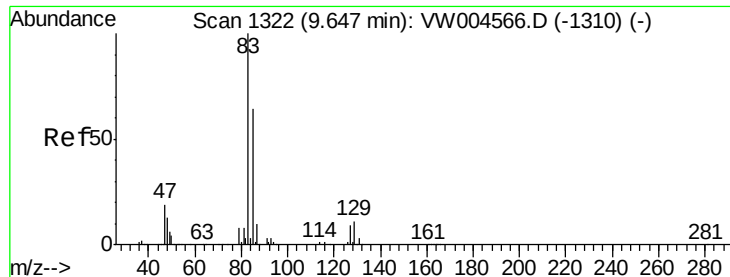
Tgt Ion: 63 Resp: 163528  
 Ion Ratio Lower Upper  
 63 100  
 65 30.5 24.5 36.7



#46  
 Dibromomethane  
 Concen: 20.294 ug/l  
 RT: 9.46 min Scan# 1291  
 Delta R.T. -0.01 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion: 93 Resp: 79447  
 Ion Ratio Lower Upper  
 93 100  
 95 85.1 67.0 100.4  
 174 101.7 80.2 120.4





#47

Bromodichloromethane

Concen: 20.392 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampled :

BFB

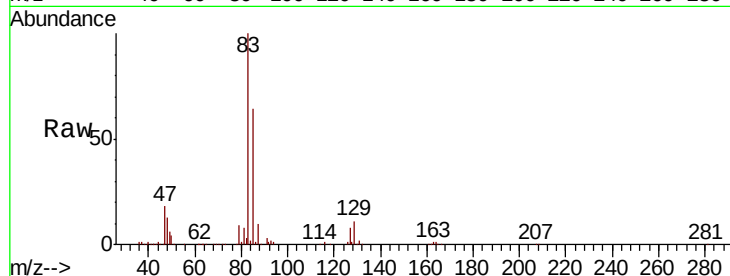
Tgt Ion: 83 Resp: 188437

Ion Ratio Lower Upper

83 100

85 63.7 50.7 76.1

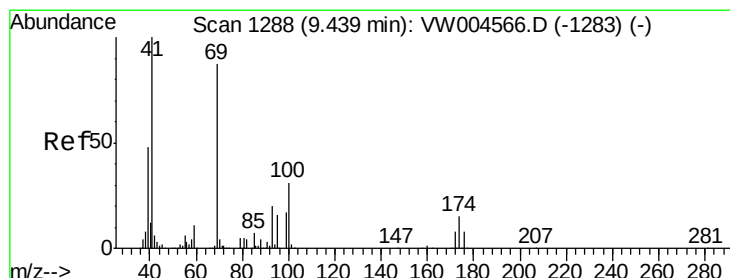
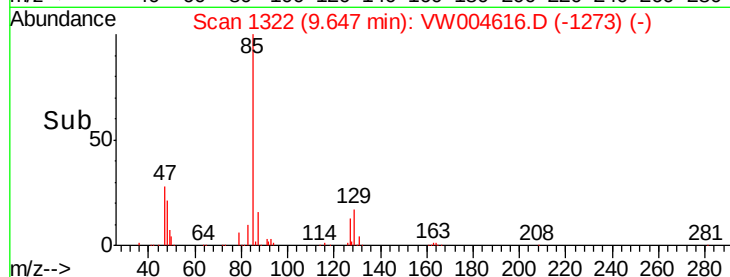
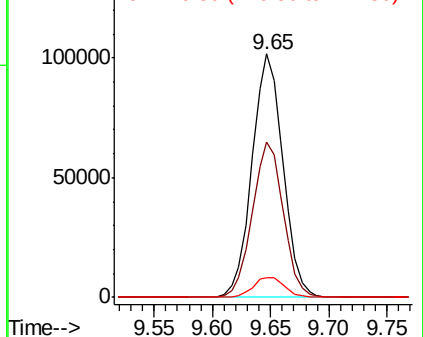
127 8.2 6.5 9.7



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 19.198 ug/l

RT: 9.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

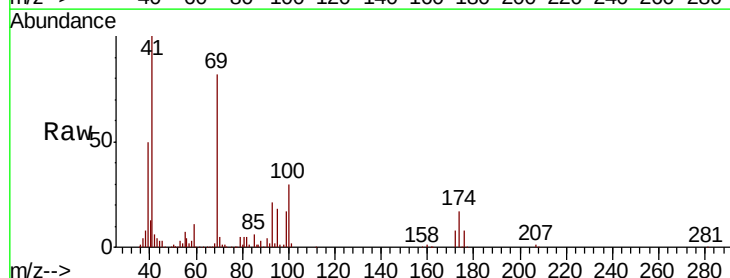
Tgt Ion: 41 Resp: 76597

Ion Ratio Lower Upper

41 100

69 91.6 73.2 109.8

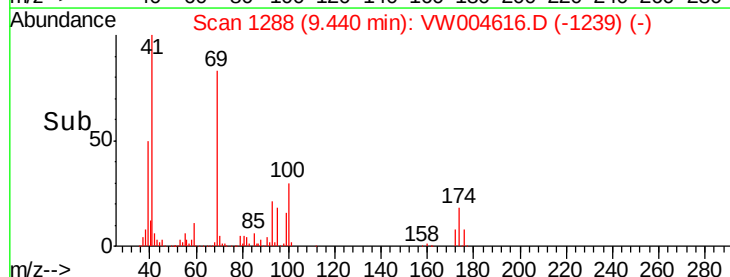
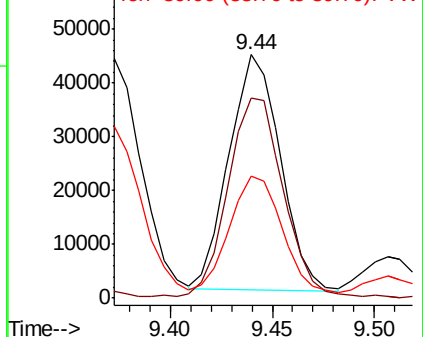
39 50.3 40.6 60.8

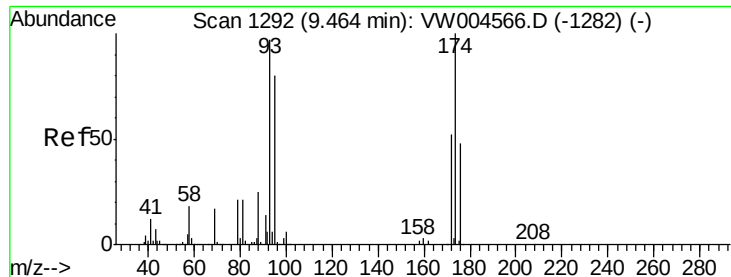


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

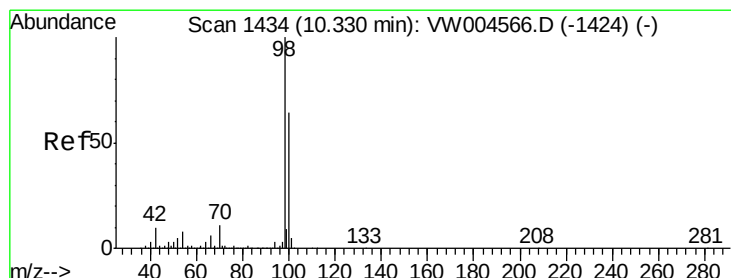
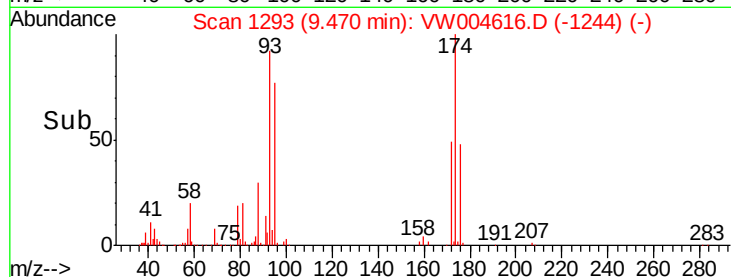
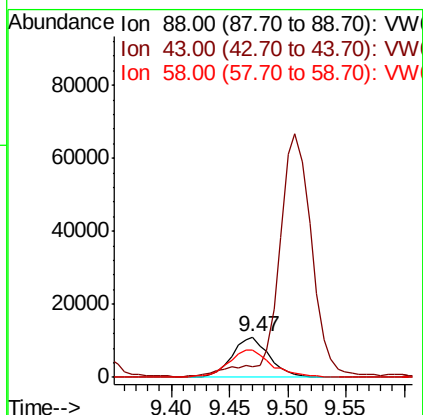
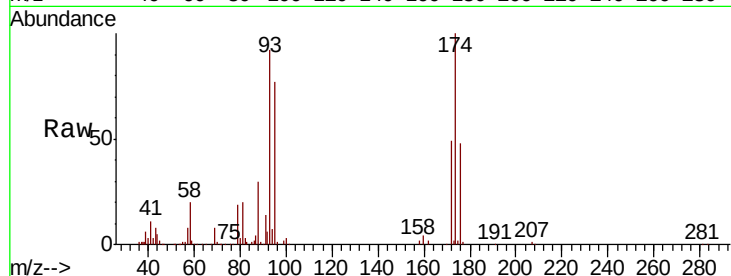




#49  
1,4-Dioxane  
Concen: 413.874 ug/l  
RT: 9.47 min Scan# 1293  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

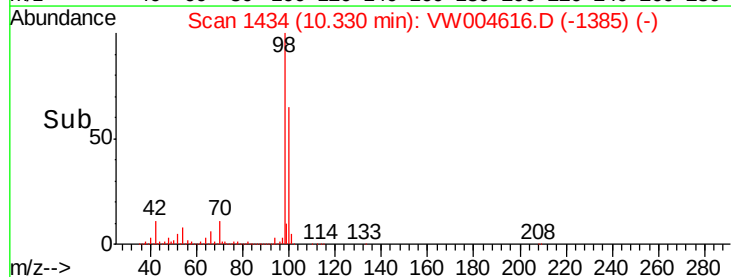
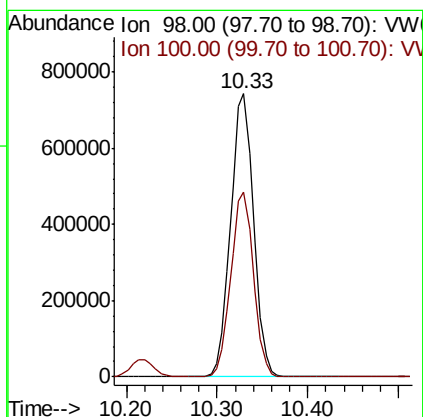
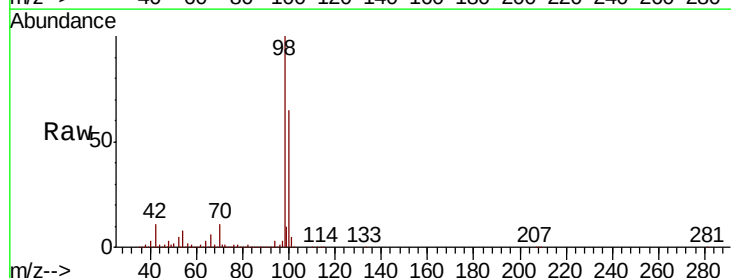
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

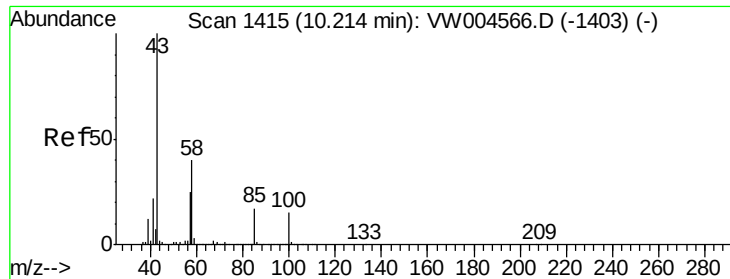
Tgt Ion: 88 Resp: 24719  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 79.6 63.5 95.3



#50  
Toluene-d8  
Concen: 52.753 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 98 Resp: 1302332  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.4 77.2

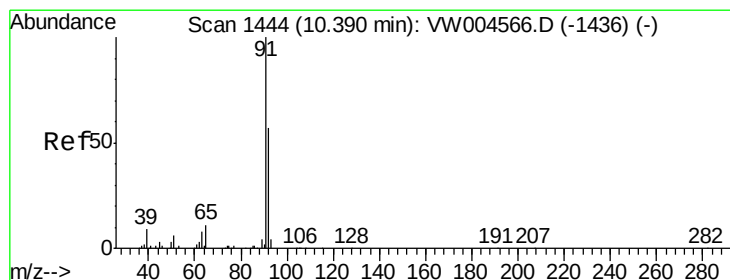
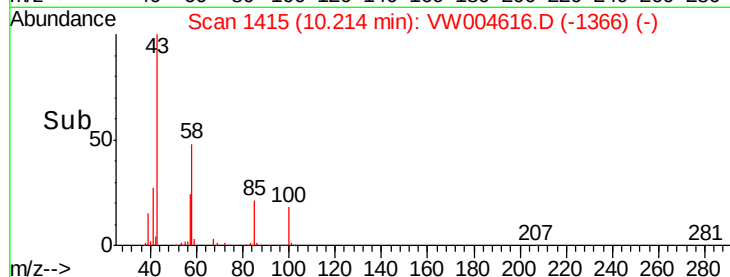
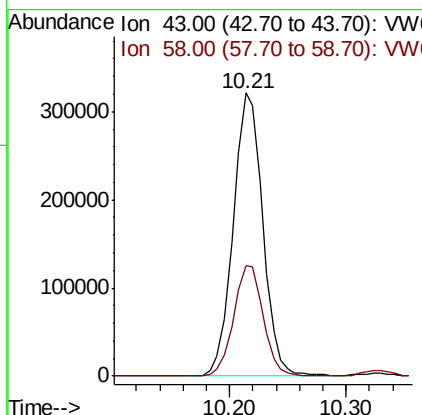
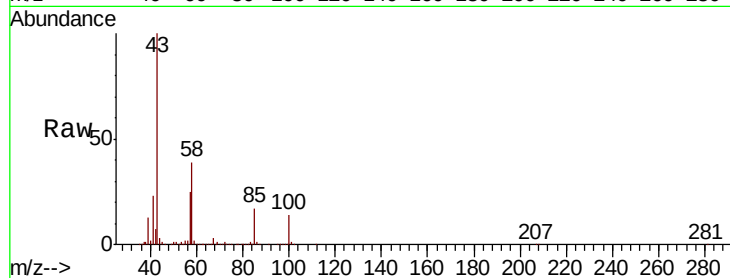




#51  
 4-Methyl-2-Pentanone  
 Concen: 95.522 ug/l  
 RT: 10.21 min Scan# 1415  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

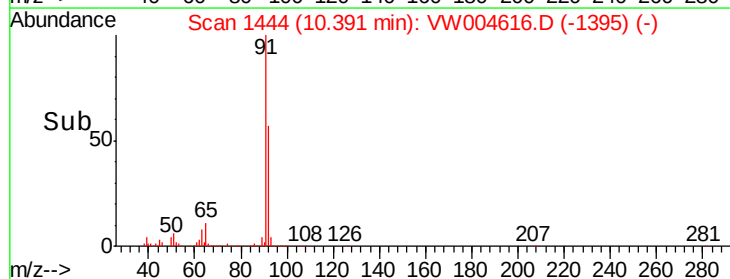
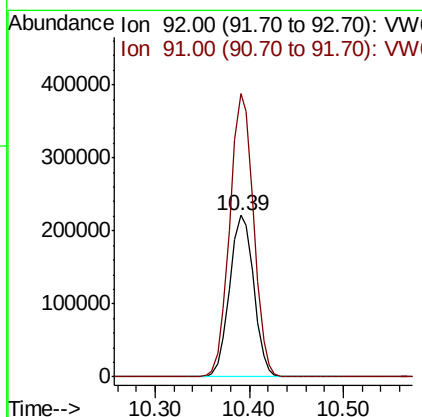
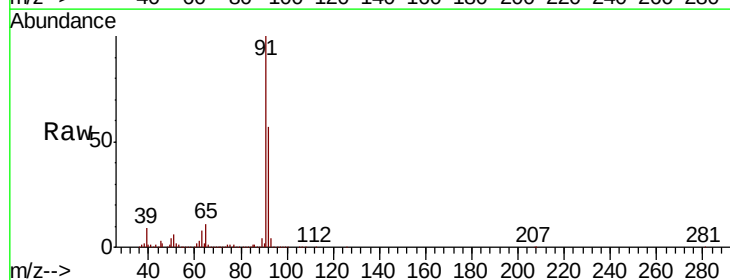
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

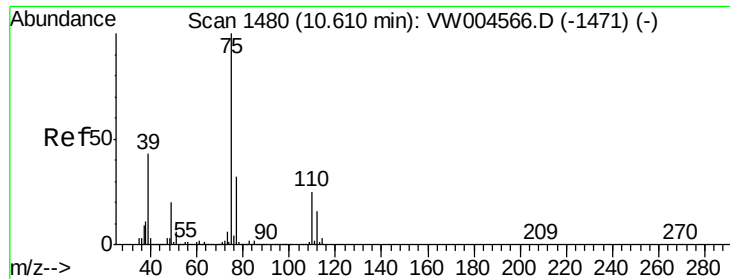
Tgt Ion: 43 Resp: 567615  
 Ion Ratio Lower Upper  
 43 100  
 58 39.2 31.9 47.9



#52  
 Toluene  
 Concen: 21.771 ug/l  
 RT: 10.39 min Scan# 1444  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion: 92 Resp: 394231  
 Ion Ratio Lower Upper  
 92 100  
 91 172.4 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 19.284 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampled :

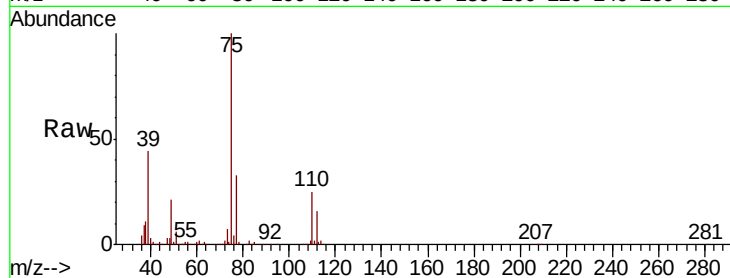
BFB

Tgt Ion: 75 Resp: 178928

Ion Ratio Lower Upper

75 100

77 32.4 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

10.61

120000

100000

80000

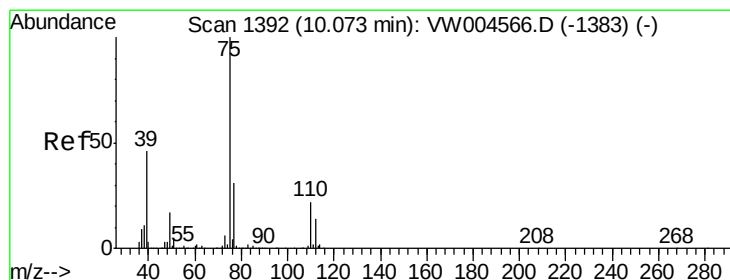
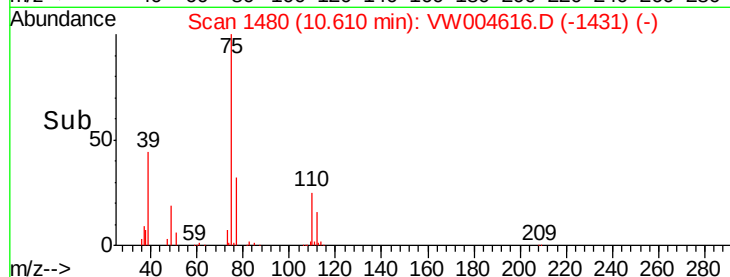
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 20.207 ug/l

RT: 10.07 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

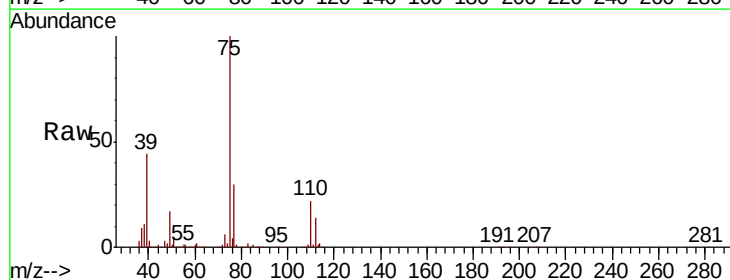
Tgt Ion: 75 Resp: 218505

Ion Ratio Lower Upper

75 100

77 30.0 25.3 37.9

39 43.7 34.5 51.7



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

10.07

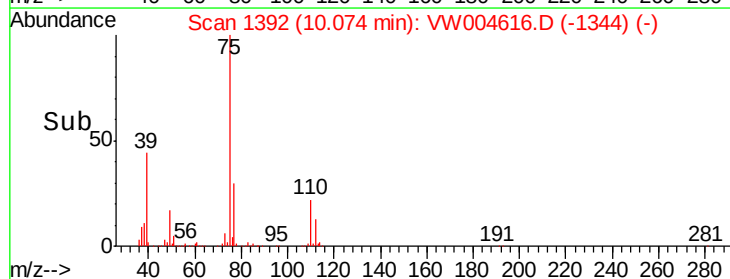
150000

100000

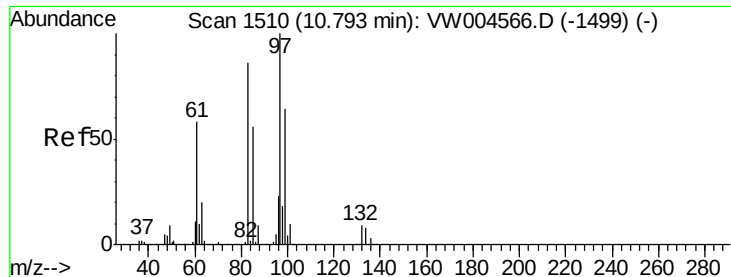
50000

0

Time-->



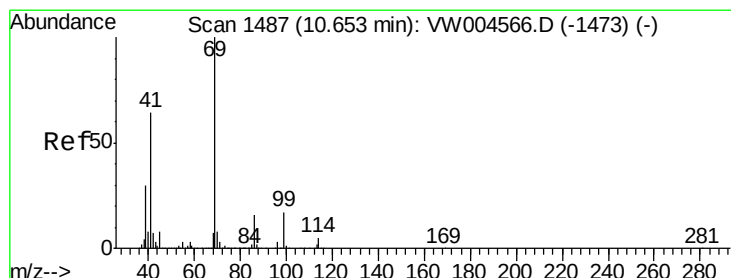
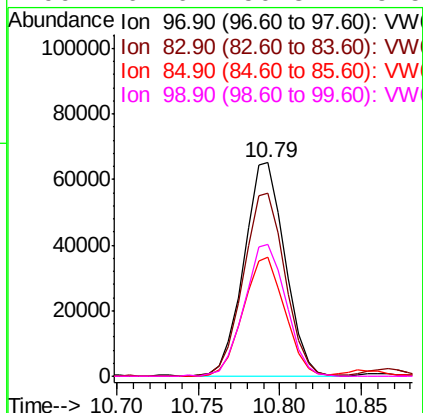
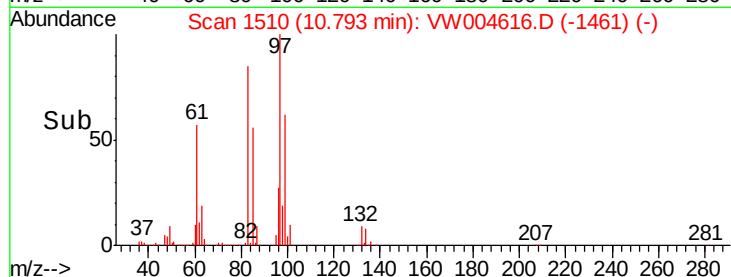
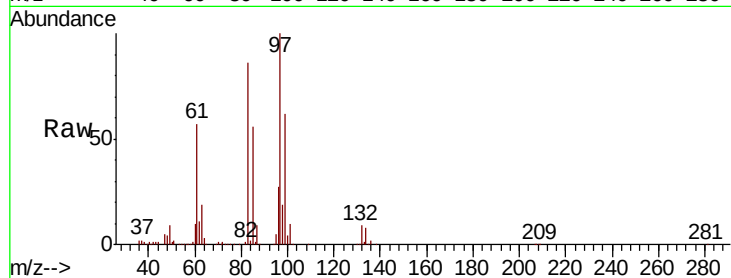




#55  
 1,1,2-Trichloroethane  
 Concen: 20.231 ug/l  
 RT: 10.79 min Scan# 1510  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

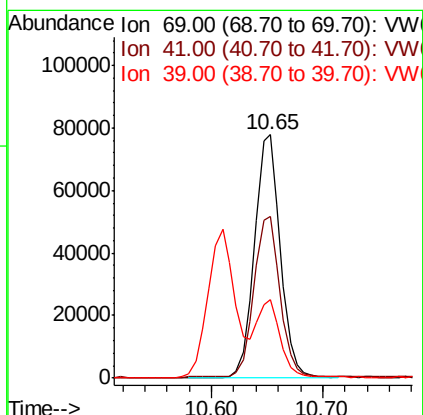
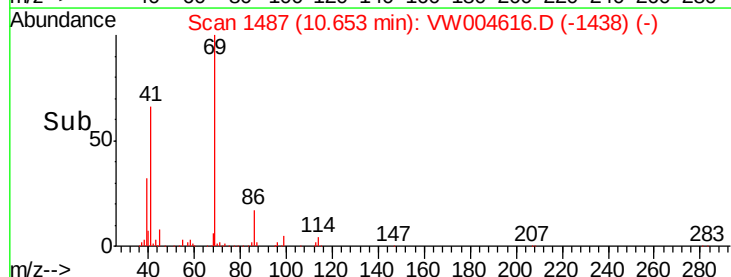
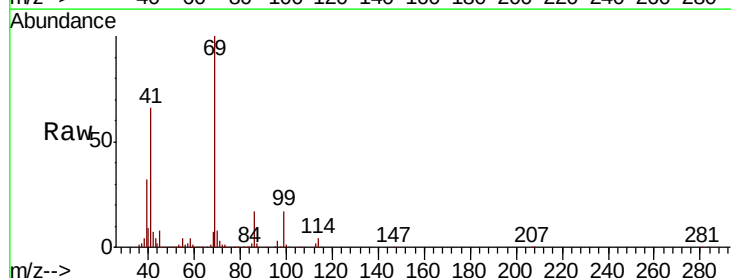
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

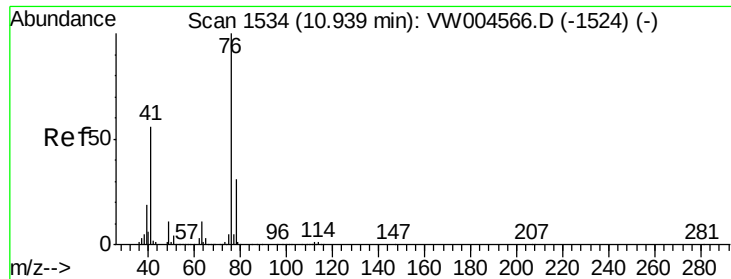
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 113516 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 85.7  | 69.8  | 104.8  |
| 85       | 55.8  | 45.1  | 67.7   |
| 99       | 61.6  | 50.3  | 75.5   |



#56  
 Ethyl methacrylate  
 Concen: 18.796 ug/l  
 RT: 10.65 min Scan# 1487  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 126270 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 66.1  | 52.4  | 78.6   |
| 39       | 29.0  | 22.7  | 34.1   |

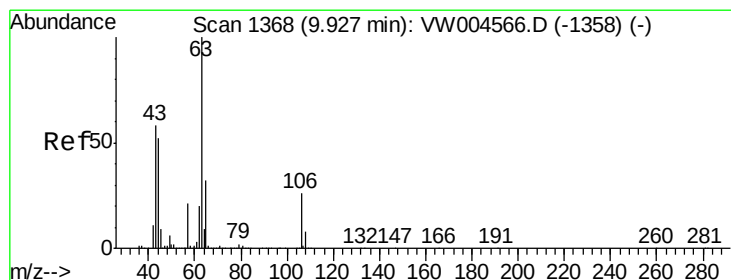
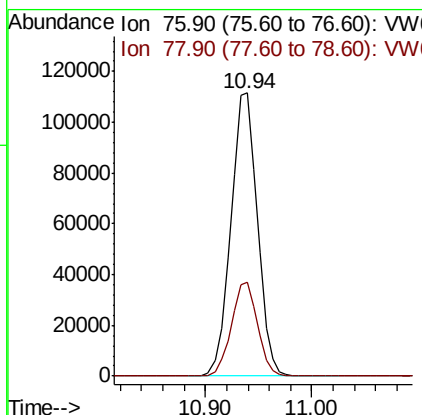
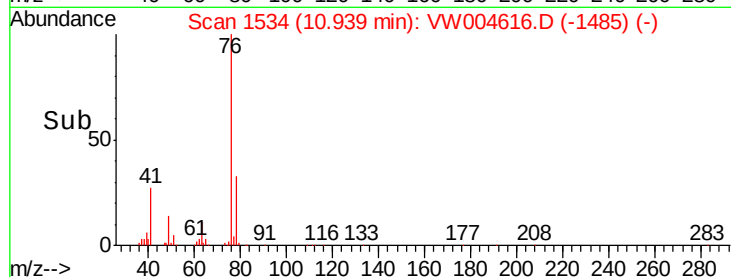
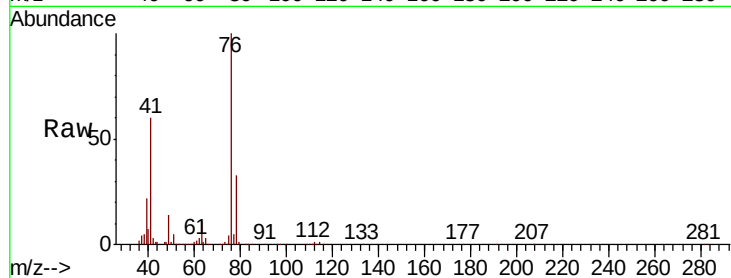




#57  
 1,3-Dichloropropane  
 Concen: 20.164 ug/l  
 RT: 10.94 min Scan# 1534  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

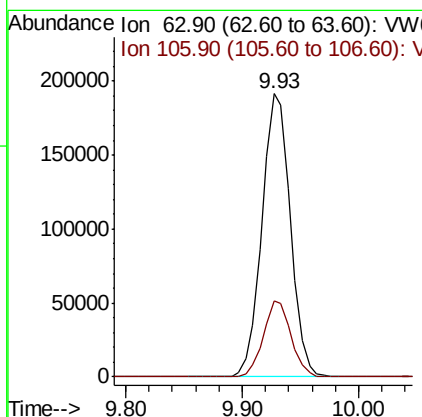
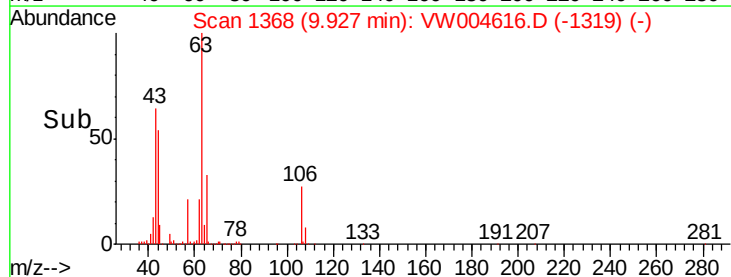
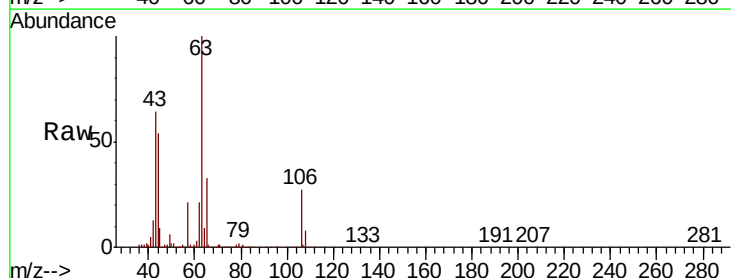
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

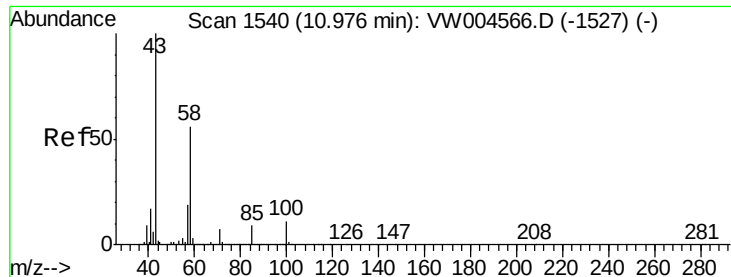
Tgt Ion: 76 Resp: 195008  
 Ion Ratio Lower Upper  
 76 100  
 78 33.1 25.7 38.5



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 97.028 ug/l  
 RT: 9.93 min Scan# 1368  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion: 63 Resp: 325911  
 Ion Ratio Lower Upper  
 63 100  
 106 26.1 21.3 31.9

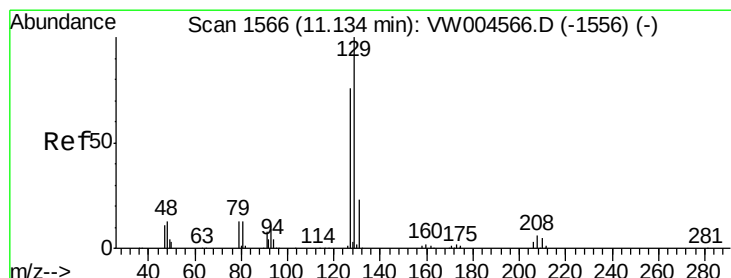
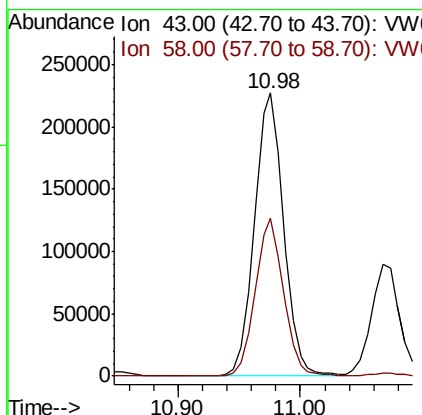
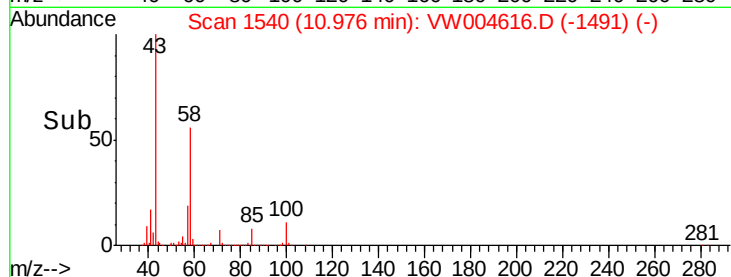
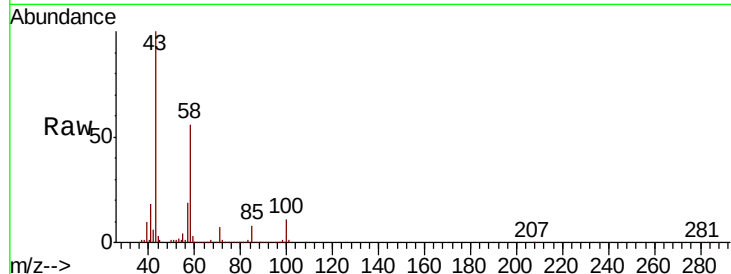




#59  
2-Hexanone  
Concen: 93.654 ug/l  
RT: 10.98 min Scan# 1540  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

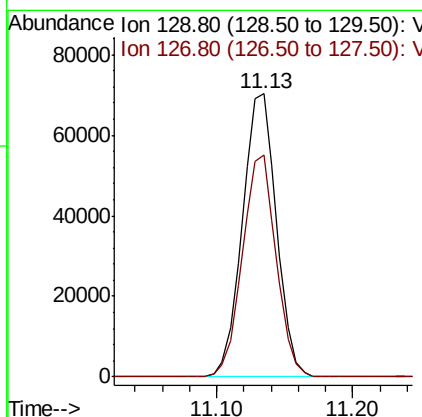
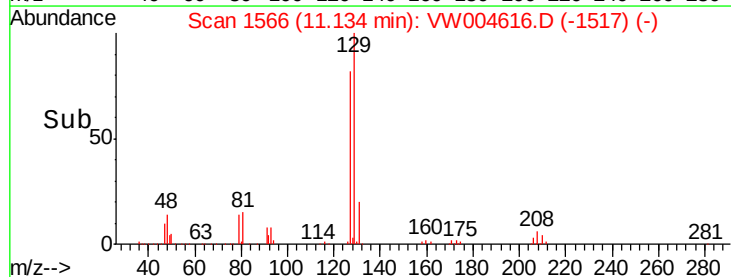
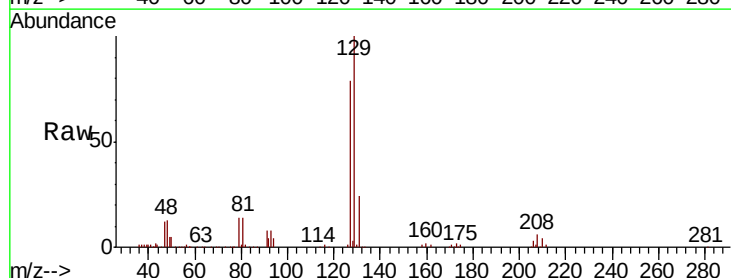
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

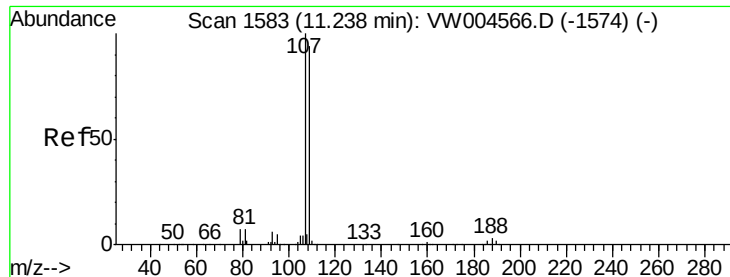
Tgt Ion: 43 Resp: 377321  
Ion Ratio Lower Upper  
43 100  
58 54.3 27.9 83.6



#60  
Dibromochloromethane  
Concen: 20.188 ug/l  
RT: 11.13 min Scan# 1566  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 129 Resp: 123205  
Ion Ratio Lower Upper  
129 100  
127 77.7 38.6 115.8

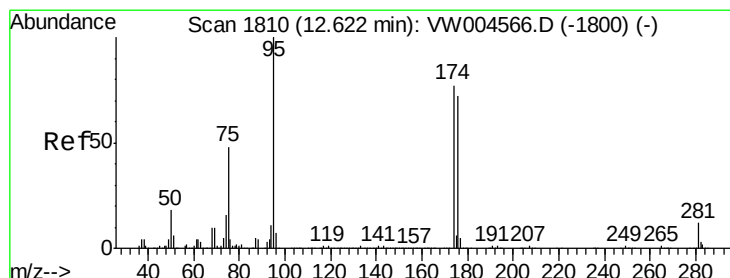
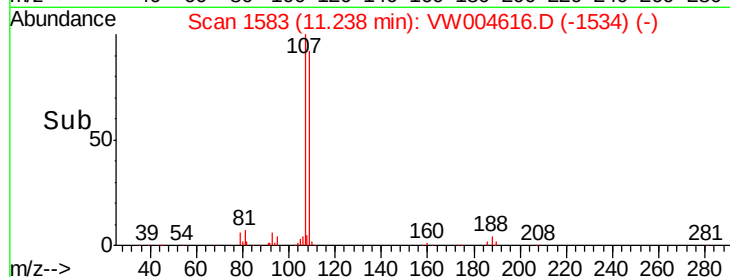
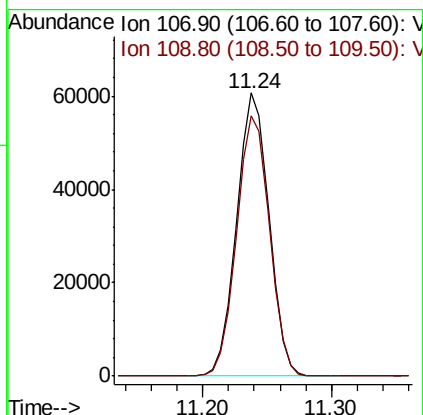
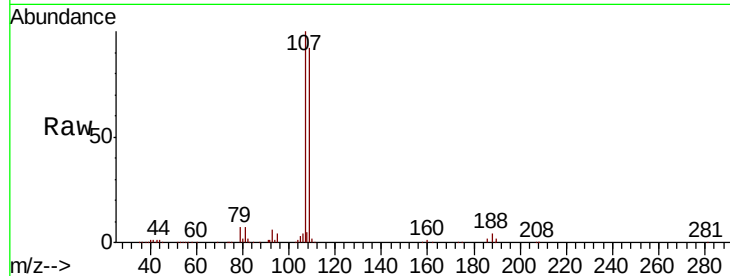




#61  
 1,2-Dibromoethane  
 Concen: 20.011 ug/l  
 RT: 11.24 min Scan# 1583  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

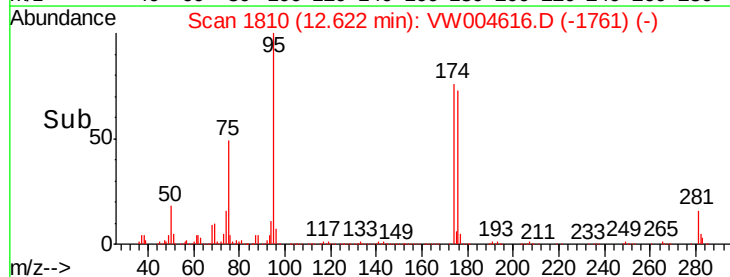
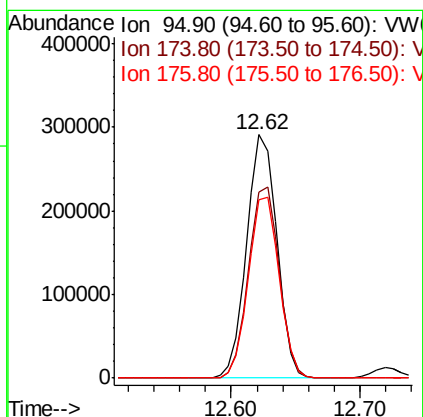
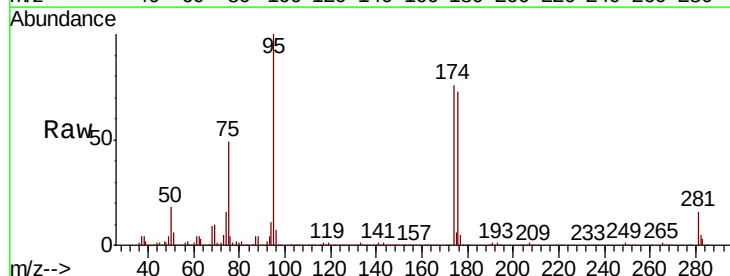
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

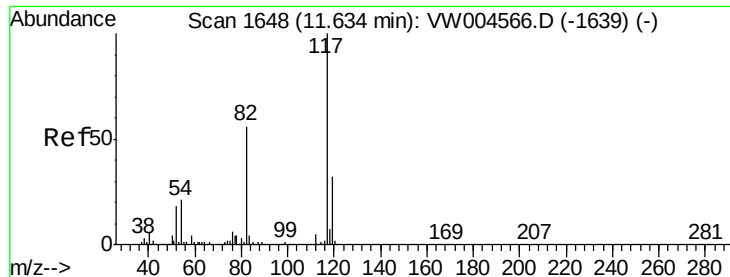
Tgt Ion: 107 Resp: 105492  
 Ion Ratio Lower Upper  
 107 100  
 109 93.5 75.7 113.5



#62  
 4-Bromofluorobenzene  
 Concen: 52.832 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion: 95 Resp: 469821  
 Ion Ratio Lower Upper  
 95 100  
 174 79.9 0.0 160.4  
 176 75.8 0.0 153.2

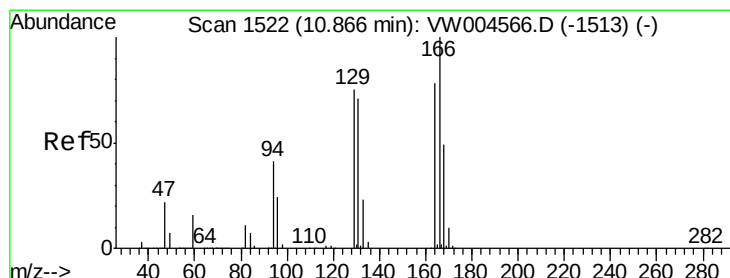
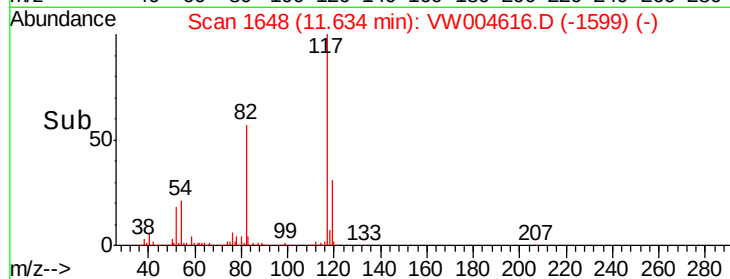
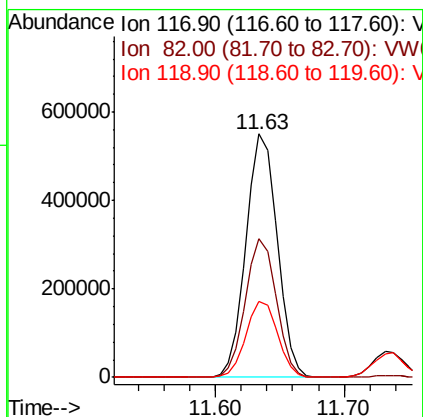
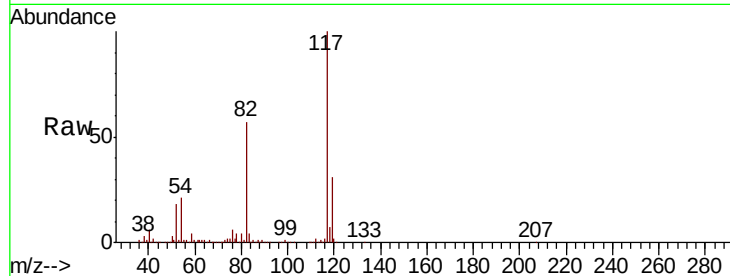




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

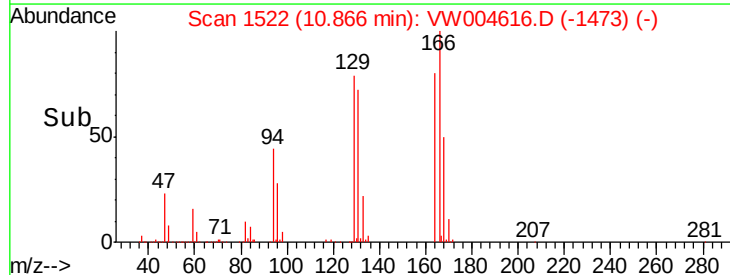
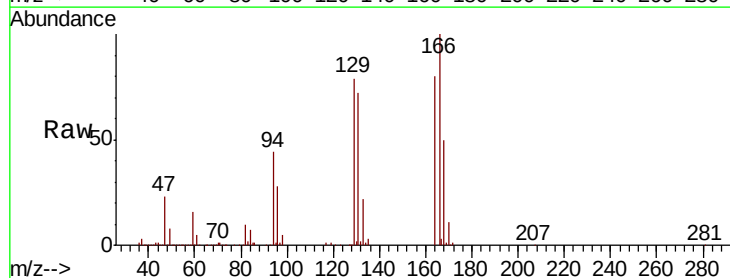
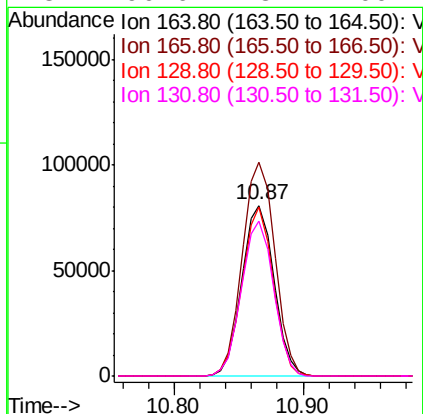
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

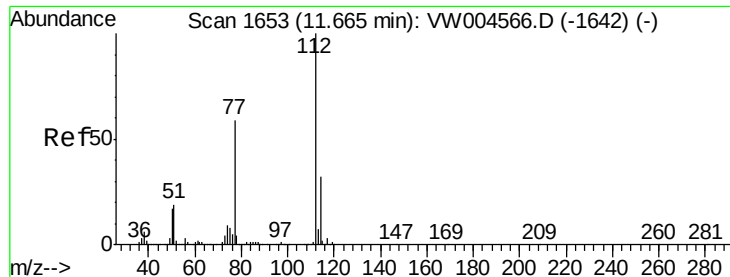
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.7  | 45.3  | 67.9  |
| 119     | 31.4  | 26.2  | 39.4  |



#64  
Tetrachloroethene  
Concen: 21.678 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 125.1 | 98.4  | 147.6 |
| 129     | 98.8  | 73.6  | 110.4 |
| 131     | 90.6  | 73.1  | 109.7 |

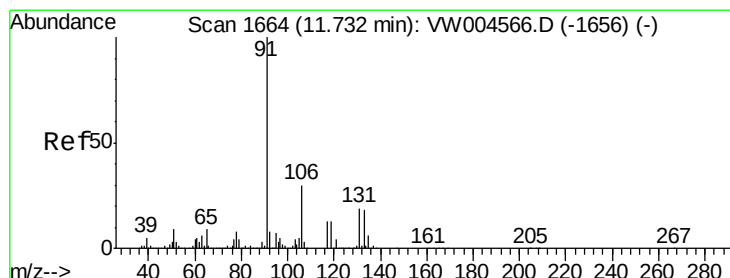
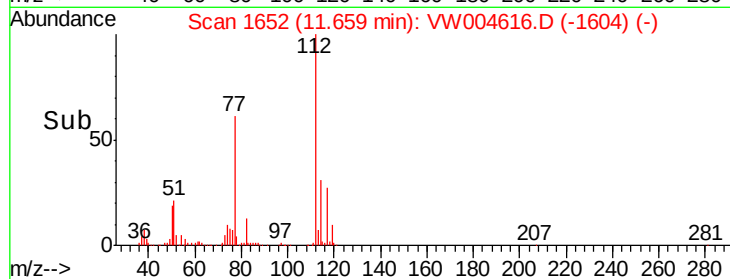
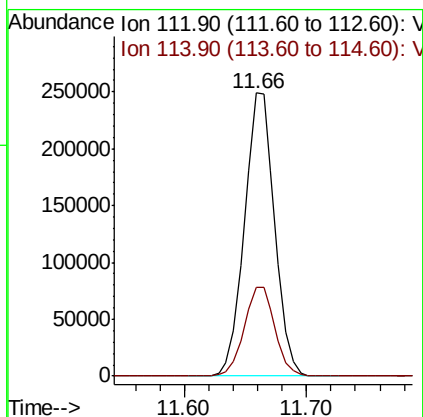
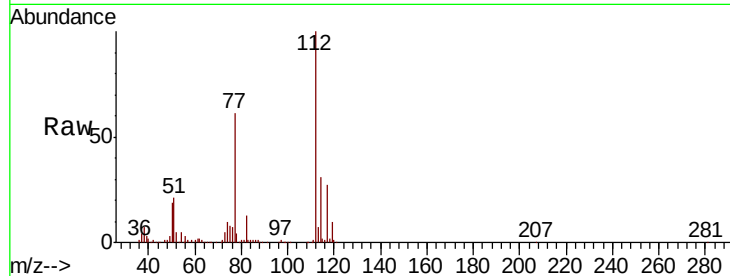




#65  
Chlorobenzene  
Concen: 20.978 ug/l  
RT: 11.66 min Scan# 1652  
Delta R.T. -0.01 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

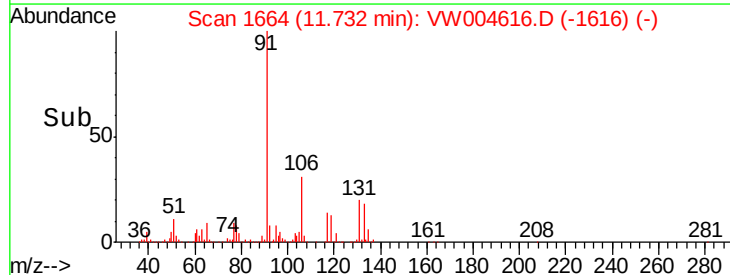
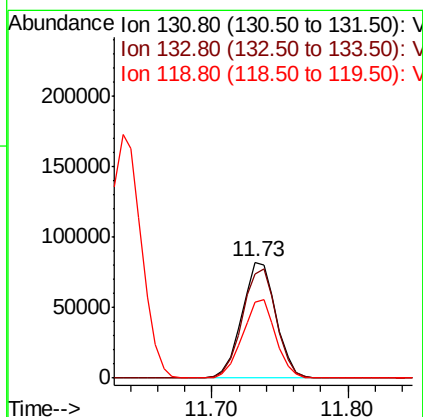
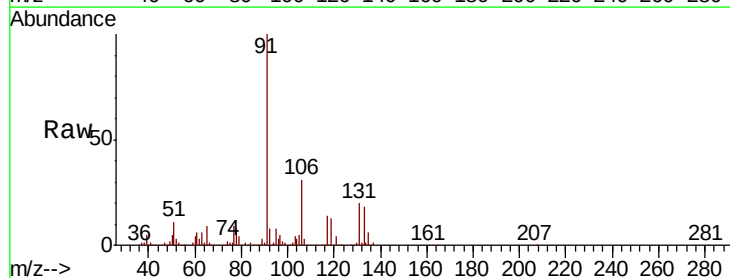
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

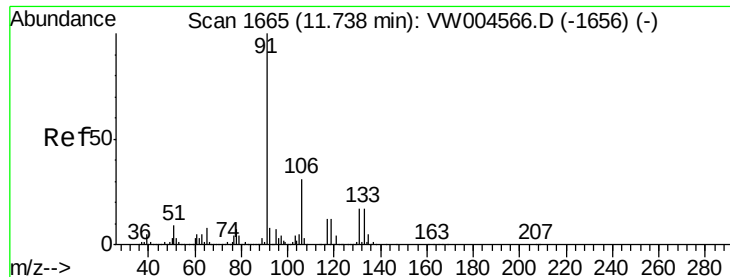
Tgt Ion:112 Resp: 426003  
Ion Ratio Lower Upper  
112 100  
114 31.3 26.0 39.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.682 ug/l  
RT: 11.73 min Scan# 1664  
Delta R.T. -0.01 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion:131 Resp: 142992  
Ion Ratio Lower Upper  
131 100  
133 94.2 48.1 144.4  
119 66.6 33.9 101.7

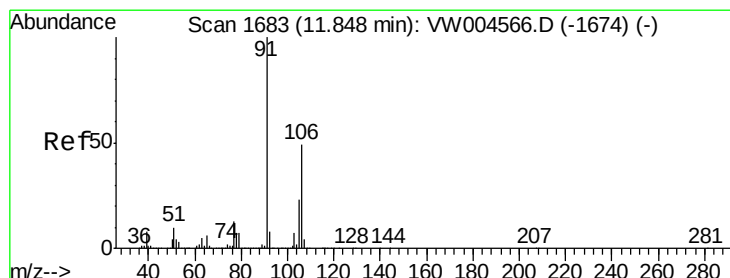
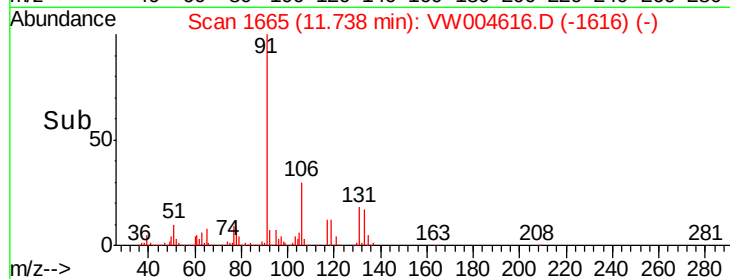
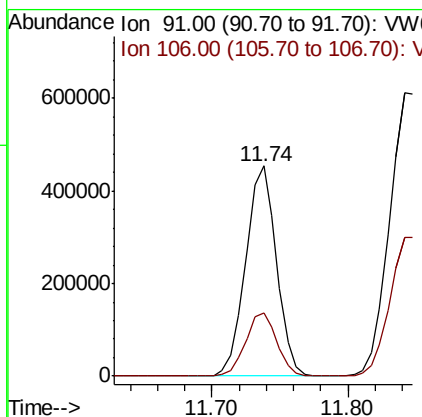
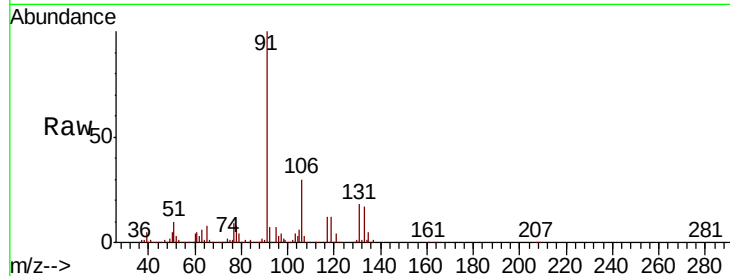




#67  
Ethyl Benzene  
Concen: 20.938 ug/l  
RT: 11.74 min Scan# 1665  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

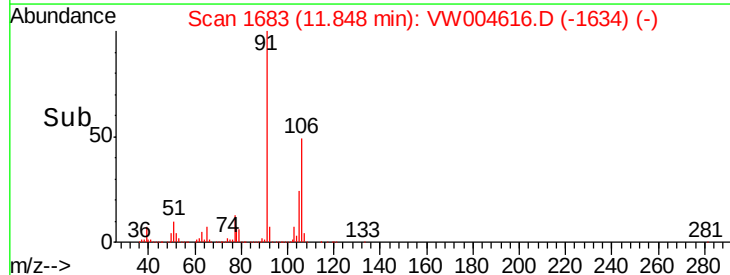
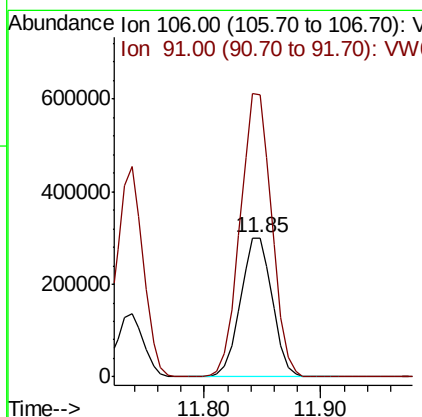
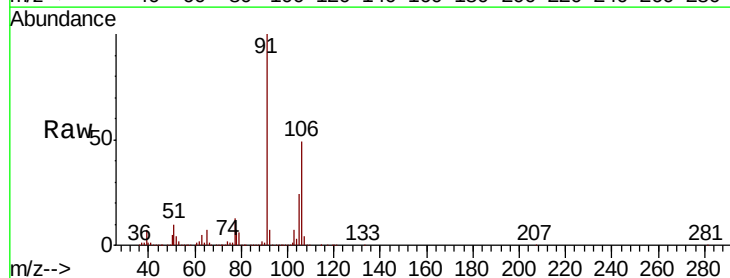
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

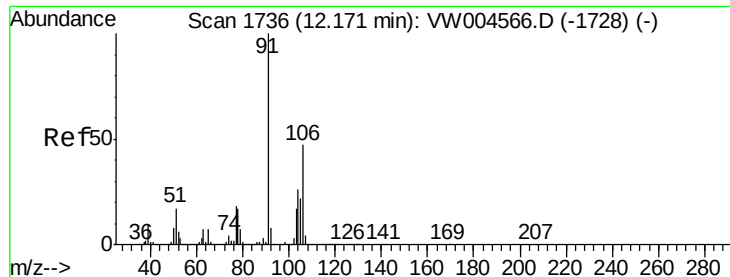
Tgt Ion: 91 Resp: 720812  
Ion Ratio Lower Upper  
91 100  
106 30.1 24.2 36.2



#68  
m/p-Xylenes  
Concen: 42.740 ug/l  
RT: 11.85 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 106 Resp: 568621  
Ion Ratio Lower Upper  
106 100  
91 203.0 162.8 244.2

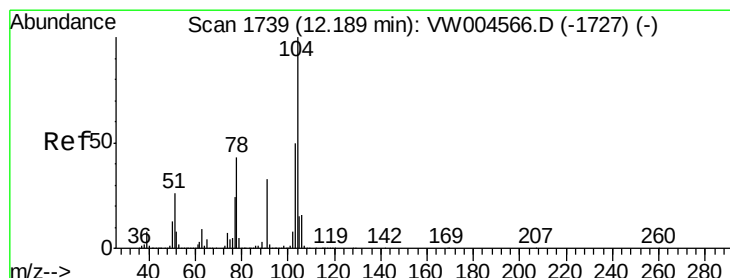
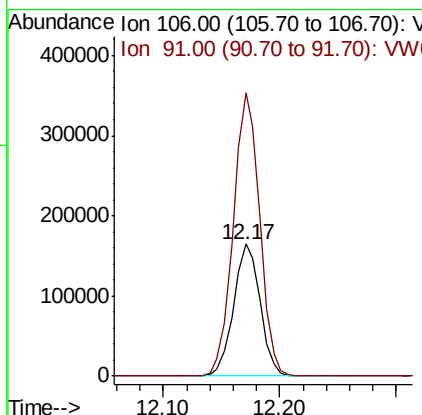
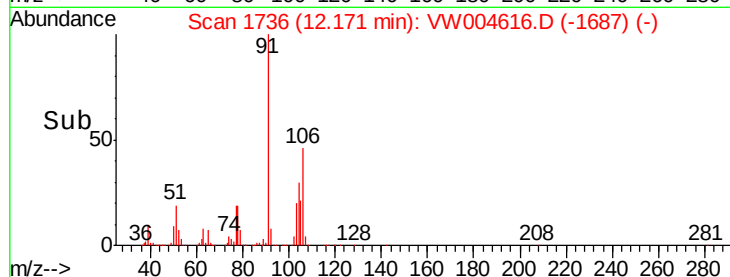
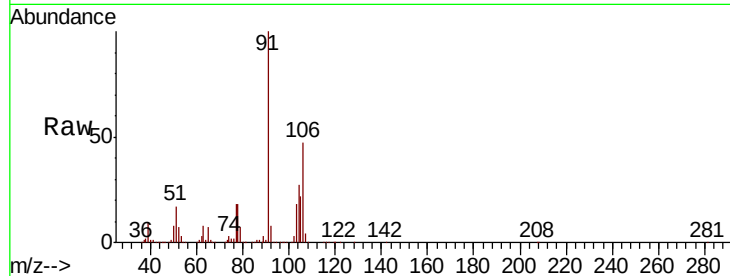




#69  
o-Xylene  
Concen: 21.109 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

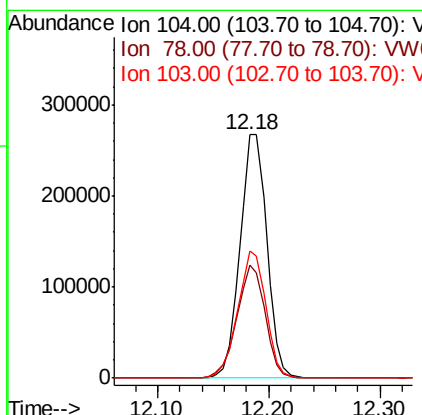
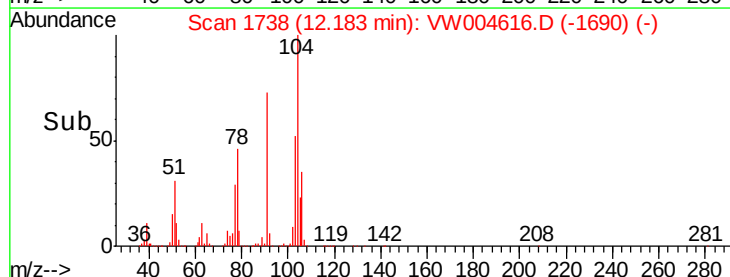
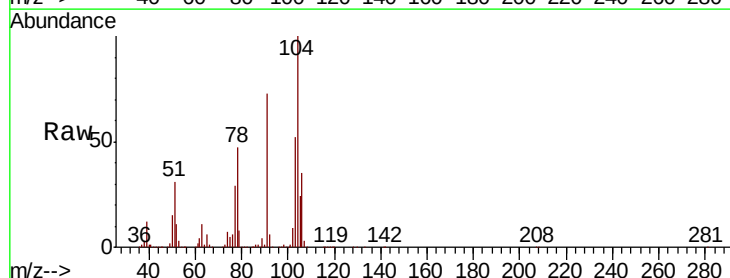
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

Tgt Ion:106 Resp: 260445  
Ion Ratio Lower Upper  
106 100  
91 214.1 106.7 320.2

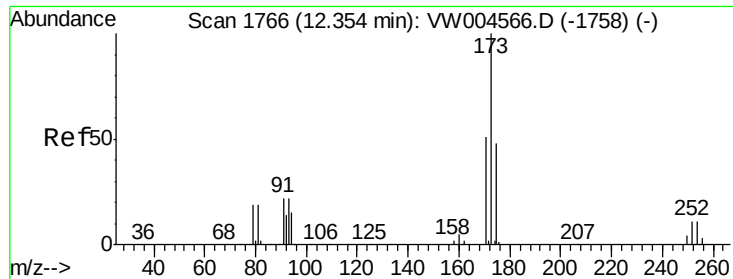


#70  
Styrene  
Concen: 21.489 ug/l  
RT: 12.18 min Scan# 1738  
Delta R.T. -0.01 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion:104 Resp: 447962  
Ion Ratio Lower Upper  
104 100  
78 48.8 39.0 58.4  
103 54.5 44.2 66.2







#71

Bromoform

Concen: 19.567 ug/l

RT: 12.35 min Scan# 1766

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampled :

BFB

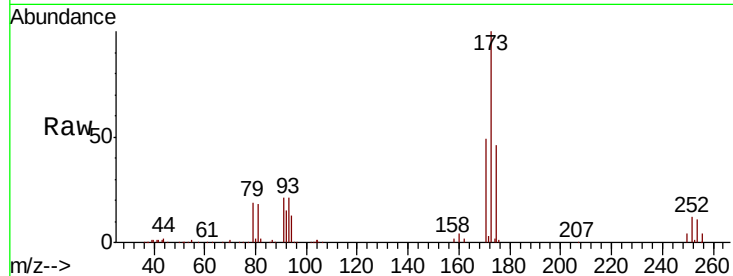
Tgt Ion:173 Resp: 74367

Ion Ratio Lower Upper

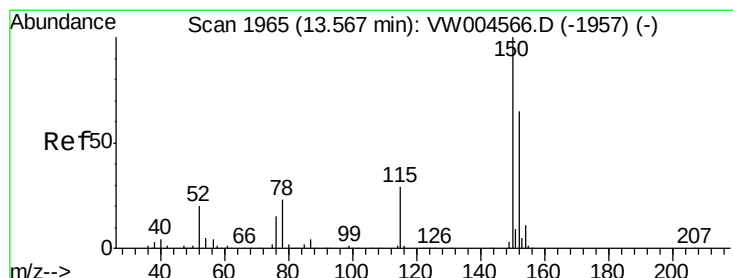
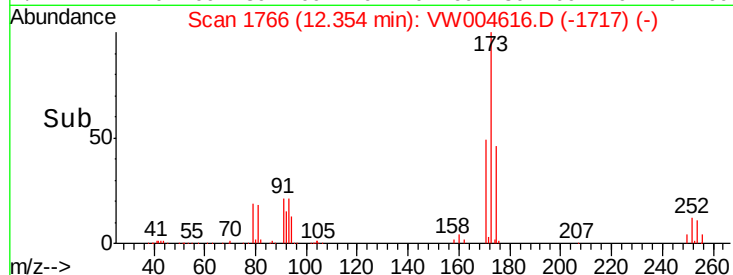
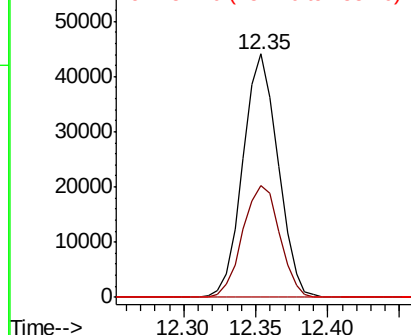
173 100

175 48.4 24.5 73.5

254 0.2 0.2 0.2



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

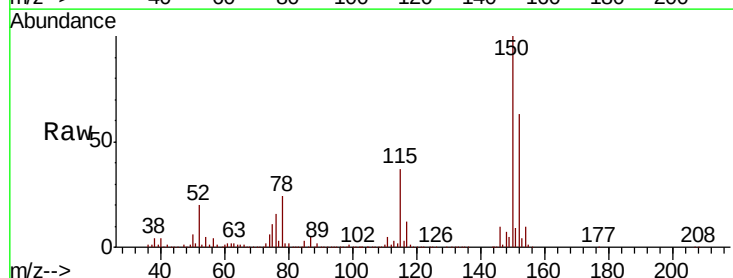
Tgt Ion:152 Resp: 491233

Ion Ratio Lower Upper

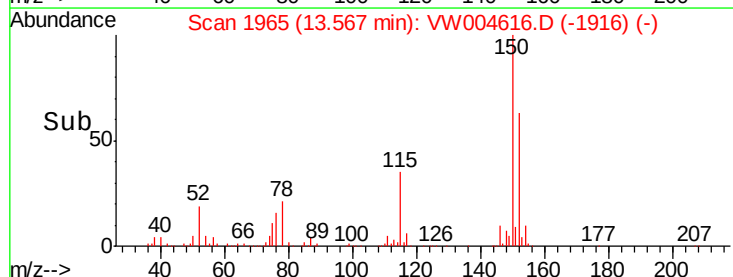
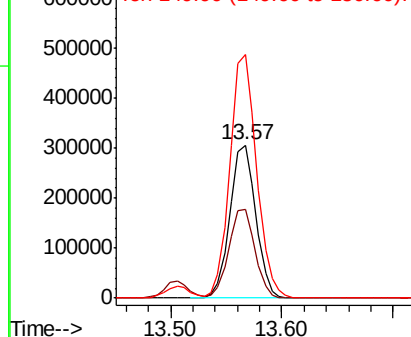
152 100

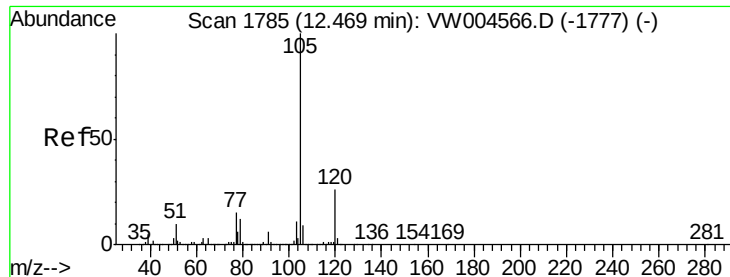
115 58.6 29.1 87.3

150 164.9 0.0 349.6



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.066 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampled :

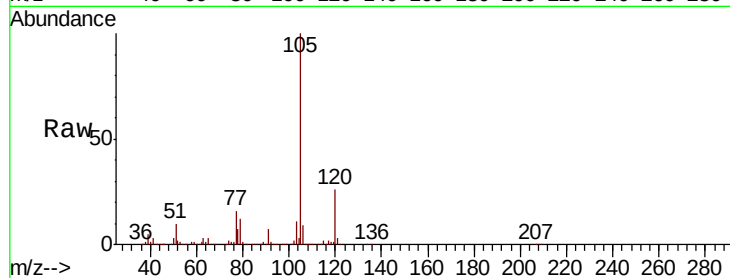
BFB

Tgt Ion: 105 Resp: 715800

Ion Ratio Lower Upper

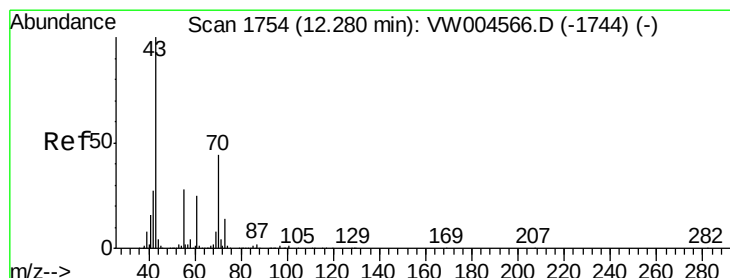
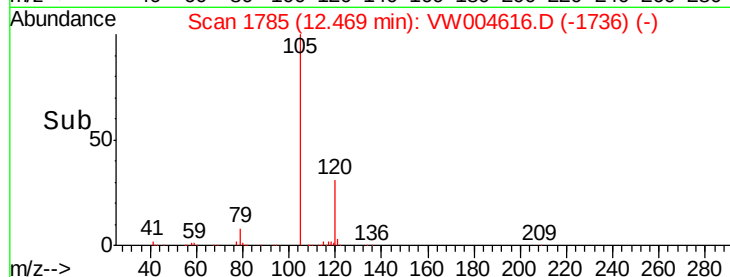
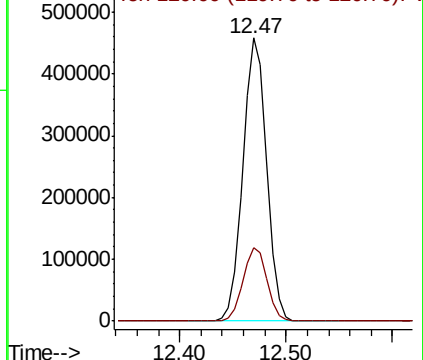
105 100

120 26.2 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.442 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Tgt Ion: 43 Resp: 151948

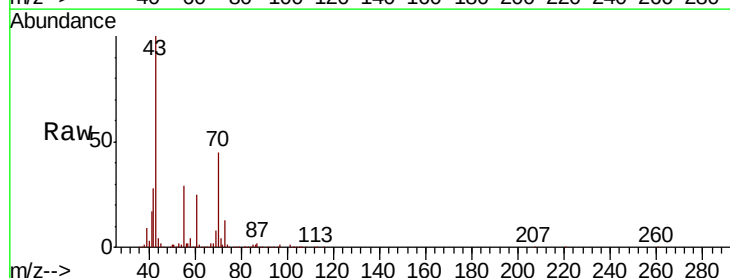
Ion Ratio Lower Upper

43 100

70 44.3 35.3 52.9

55 31.0 22.9 34.3

61 24.9 19.7 29.5

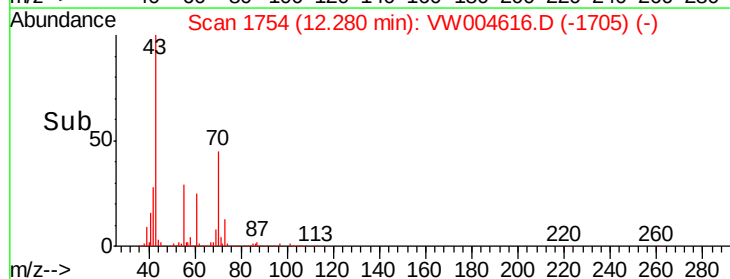
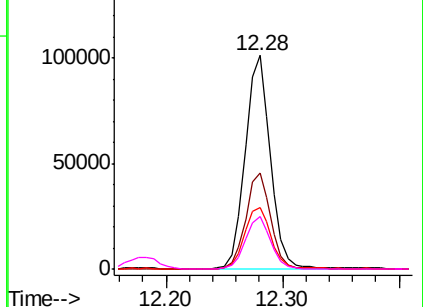


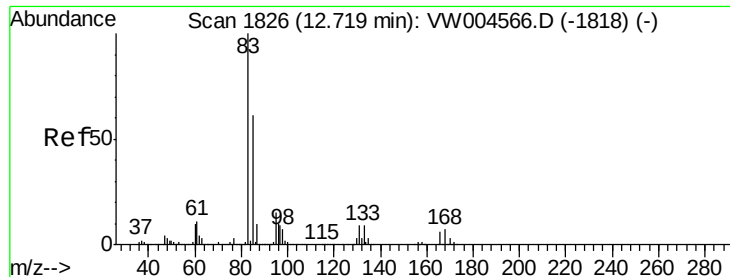
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#75

1,1,2,2-Tetrachloroethane

Concen: 19.529 ug/l

RT: 12.72 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

BFB

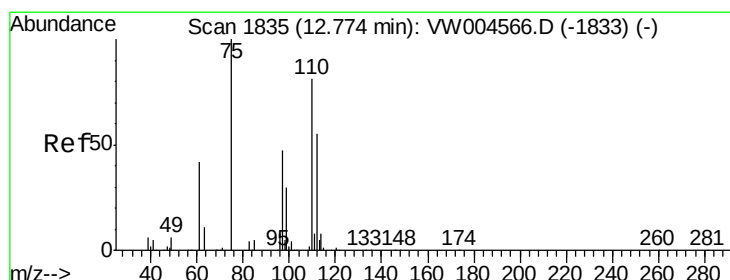
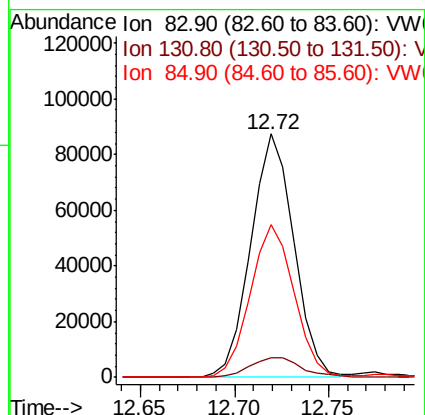
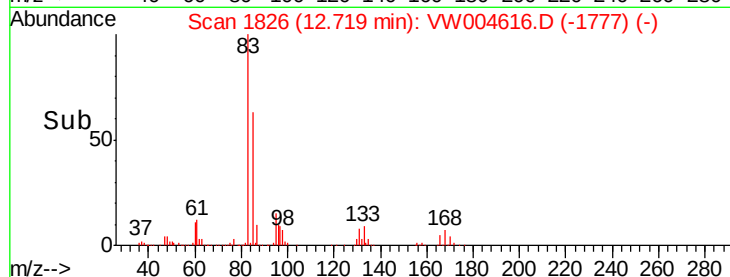
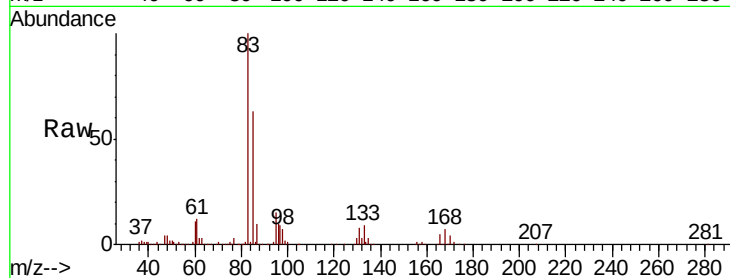
Tgt Ion: 83 Resp: 138517

Ion Ratio Lower Upper

83 100

131 9.5 5.0 15.0

85 64.0 31.8 95.4



#76

1,2,3-Trichloropropane

Concen: 34.227 ug/l

RT: 12.77 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VW004616.D

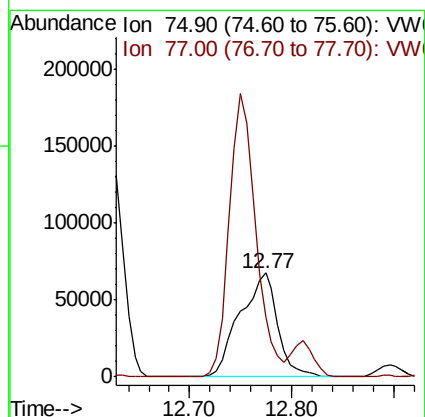
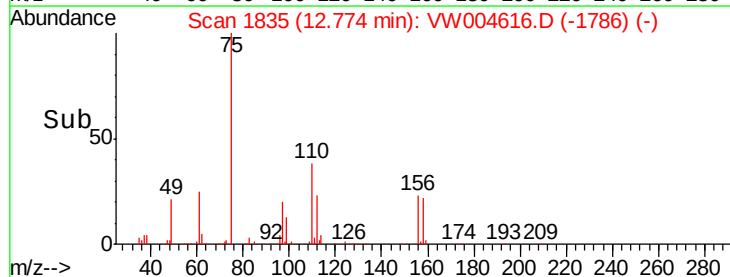
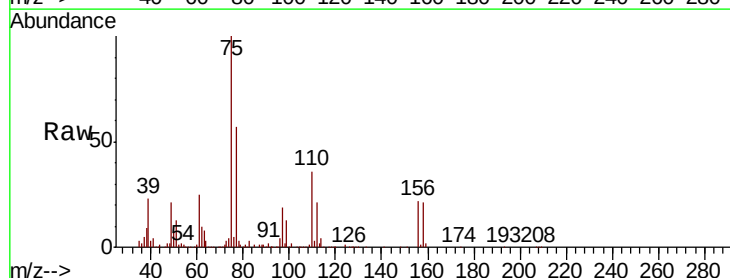
Acq: 11 Aug 2018 01:08

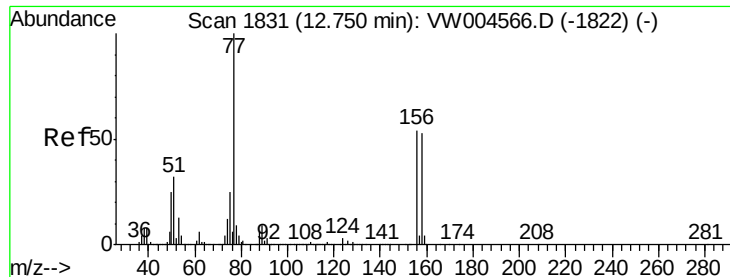
Tgt Ion: 75 Resp: 173982

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

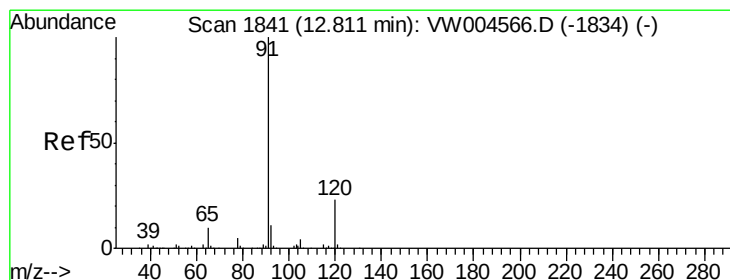
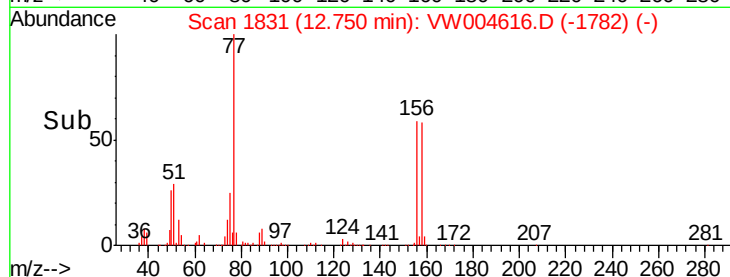
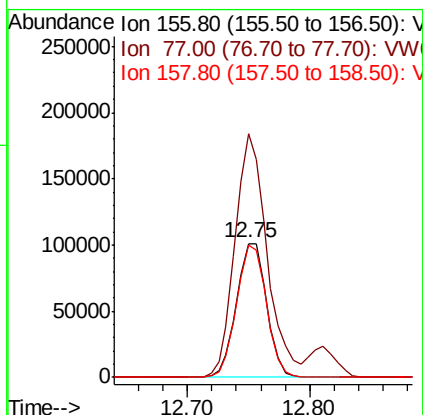
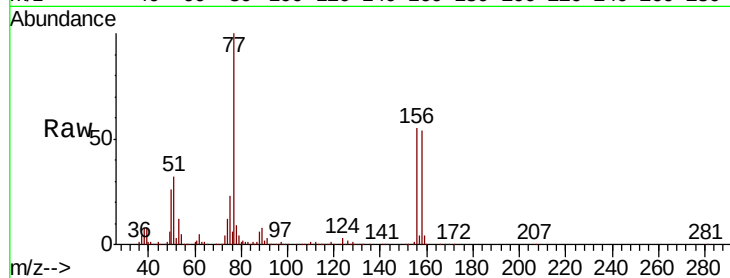




#77  
Bromobenzene  
Concen: 20.940 ug/l  
RT: 12.75 min Scan# 1831  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

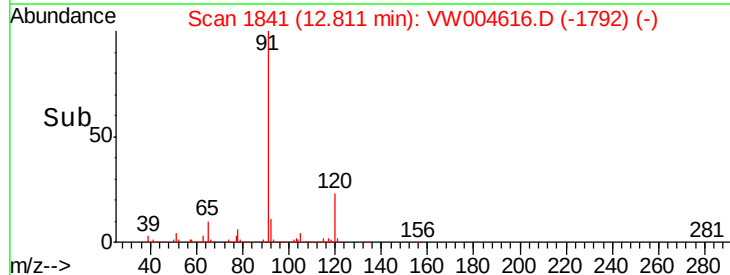
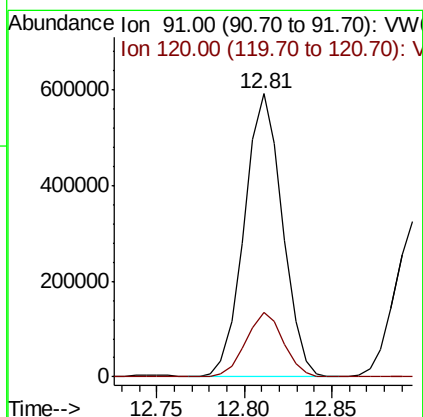
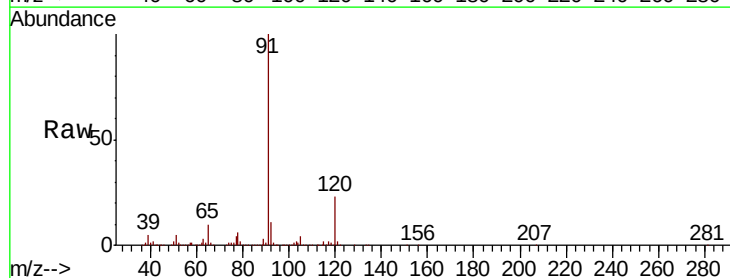
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB

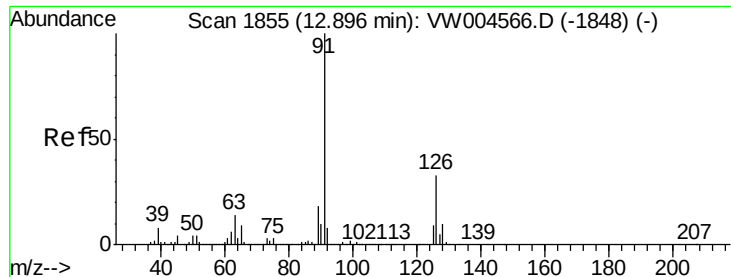
Tgt Ion: 156 Resp: 172146  
Ion Ratio Lower Upper  
156 100  
77 193.7 98.7 296.1  
158 97.3 48.7 146.1



#78  
n-propylbenzene  
Concen: 21.342 ug/l  
RT: 12.81 min Scan# 1841  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 91 Resp: 894799  
Ion Ratio Lower Upper  
91 100  
120 22.5 11.3 33.9





#79

2-Chlorotoluene

Concen: 21.460 ug/l

RT: 12.90 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampled :

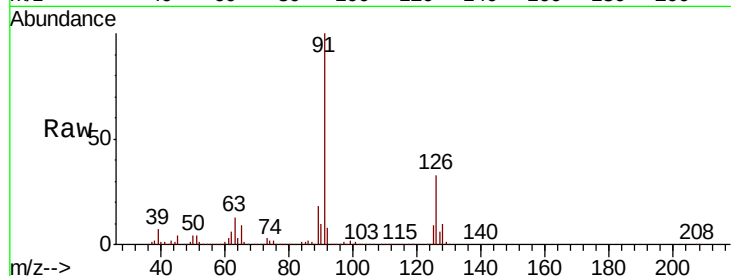
BFB

Tgt Ion: 91 Resp: 520694

Ion Ratio Lower Upper

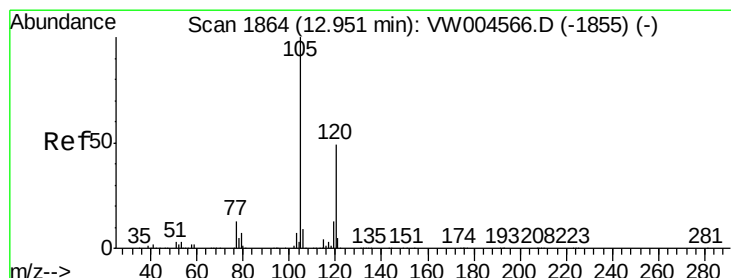
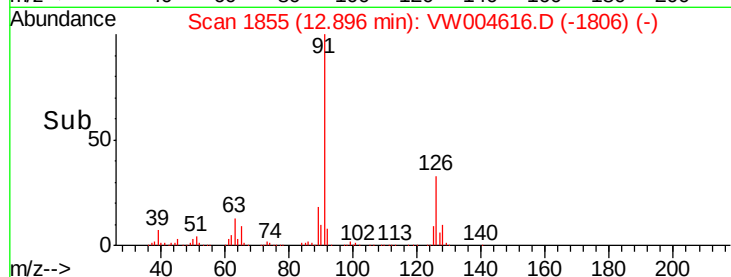
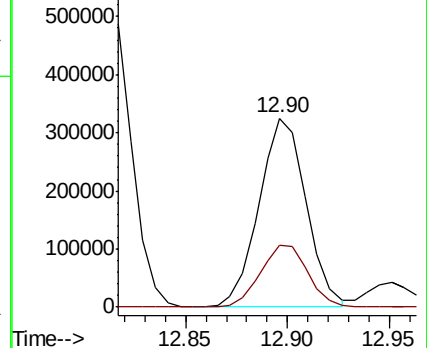
91 100

126 33.3 16.6 49.8



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: 21.706 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VW004616.D

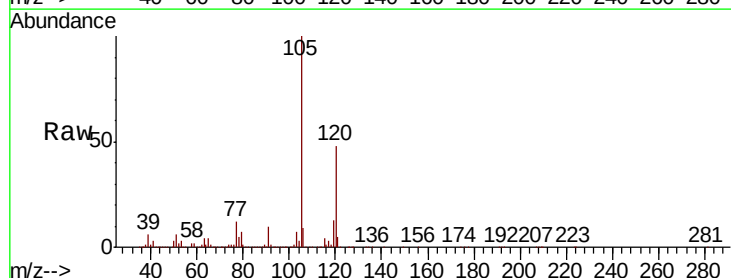
Acq: 11 Aug 2018 01:08

Tgt Ion: 105 Resp: 629134

Ion Ratio Lower Upper

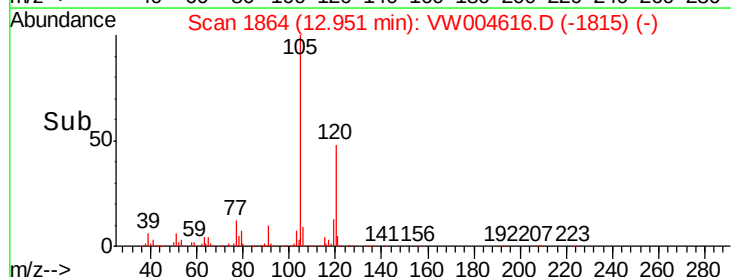
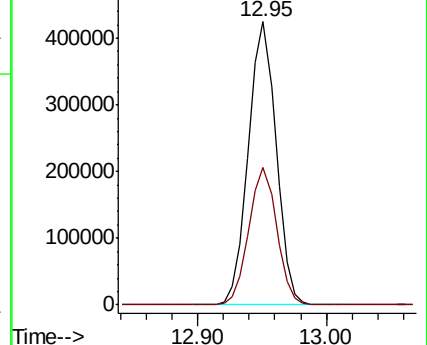
105 100

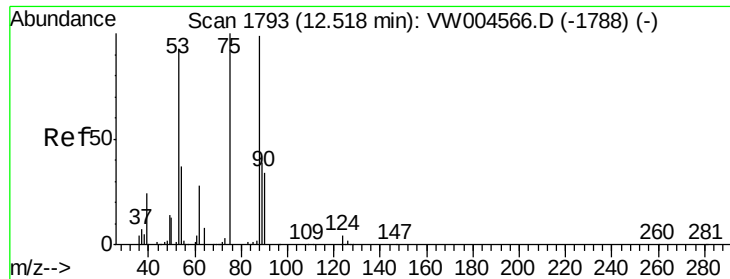
120 49.1 24.6 73.8



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: 17.454 ug/l

RT: 12.52 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VW004616.D

Acq: 11 Aug 2018 01:08

Instrument :

MSVOA\_W

ClientSampleId :

BFB

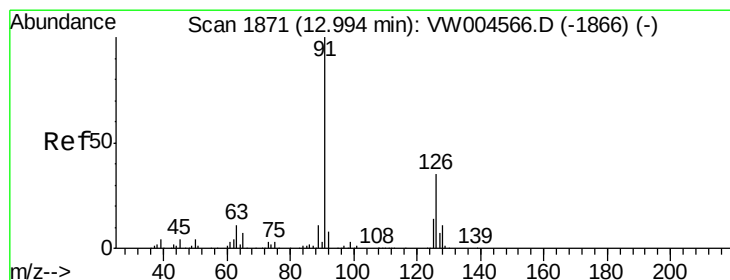
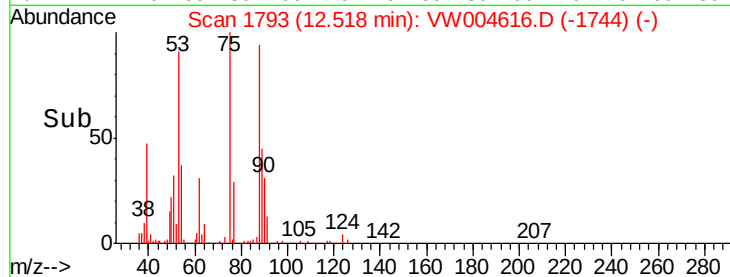
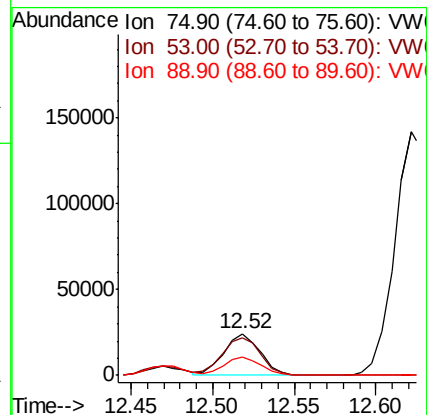
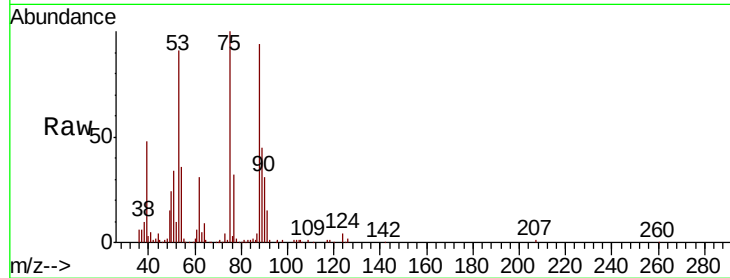
Tgt Ion: 75 Resp: 37063

Ion Ratio Lower Upper

75 100

53 96.3 74.4 111.6

89 44.5 35.9 53.9



#82

4-Chlorotoluene

Concen: 21.520 ug/l

RT: 12.99 min Scan# 1871

Delta R.T. 0.00 min

Lab File: VW004616.D

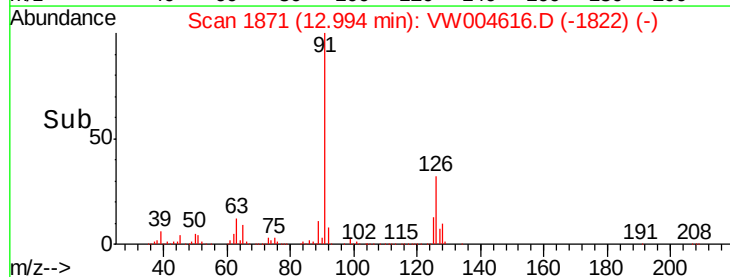
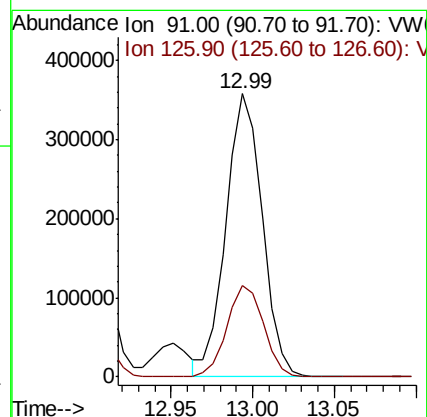
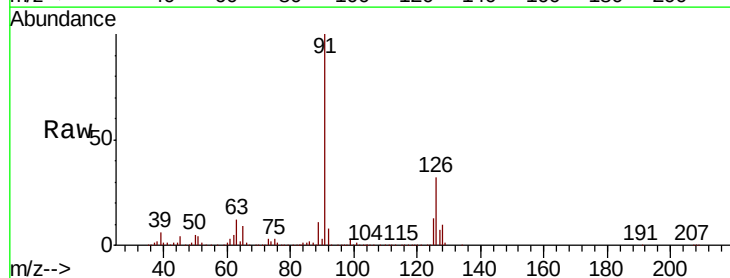
Acq: 11 Aug 2018 01:08

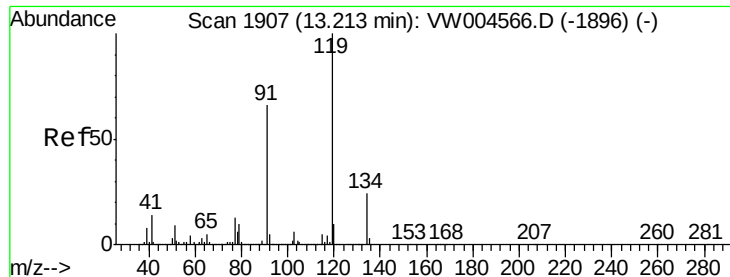
Tgt Ion: 91 Resp: 554133

Ion Ratio Lower Upper

91 100

126 32.8 16.5 49.5

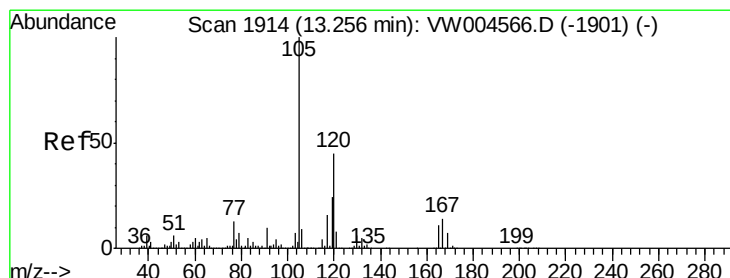
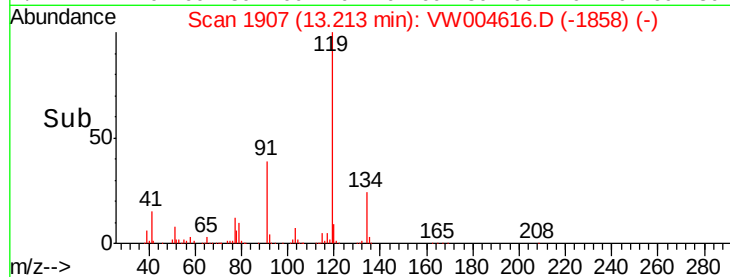
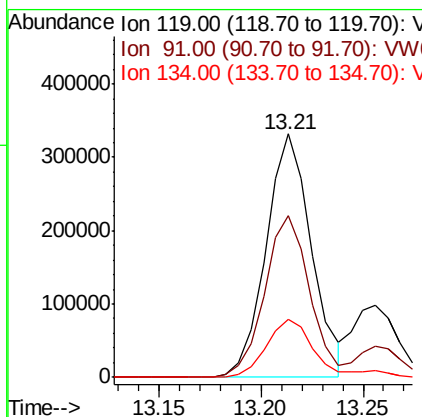
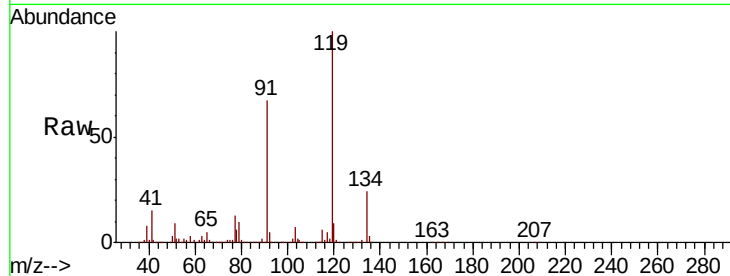




#83  
 tert-Butylbenzene  
 Concen: 21.172 ug/l  
 RT: 13.21 min Scan# 1907  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

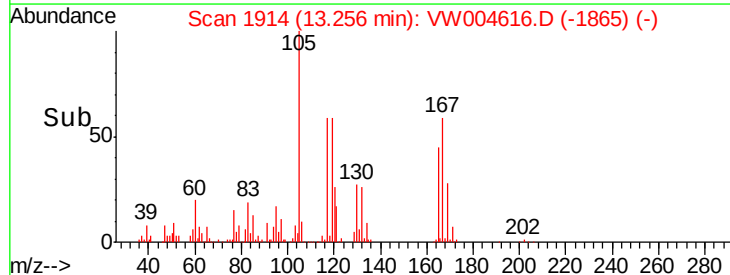
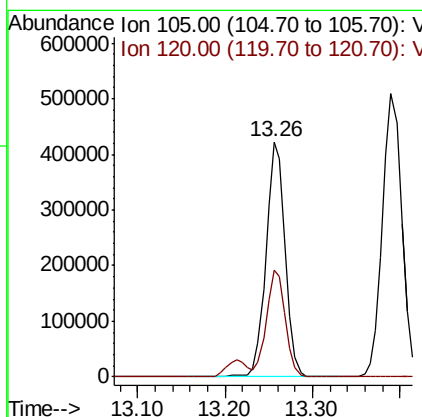
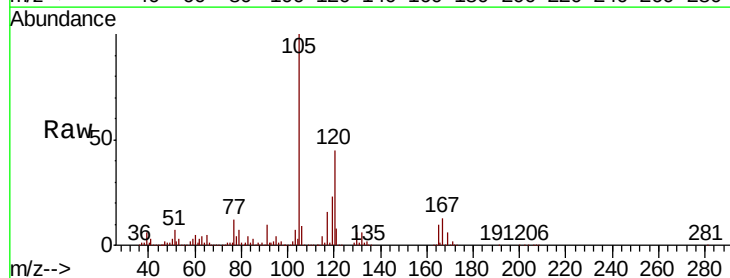
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

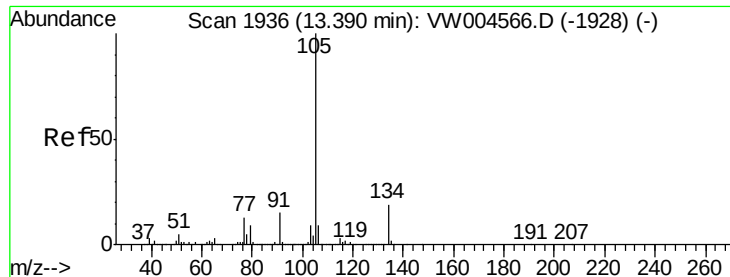
| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 119     | 514725 |       |       |
| 91      | 65.4   | 33.3  | 99.8  |
| 134     | 24.1   | 12.2  | 36.6  |



#84  
 1,2,4-Trimethylbenzene  
 Concen: 21.647 ug/l  
 RT: 13.26 min Scan# 1914  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 105     | 649533 |       |       |
| 120     | 44.8   | 22.6  | 67.8  |

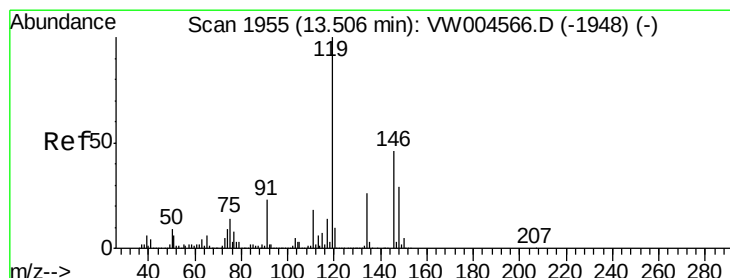
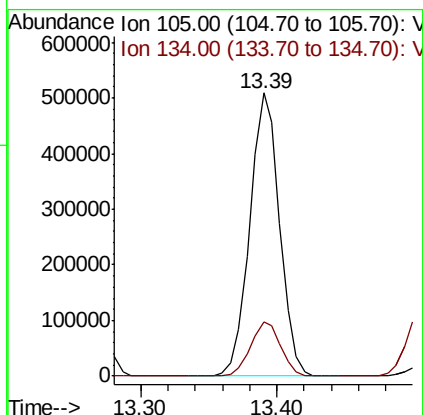
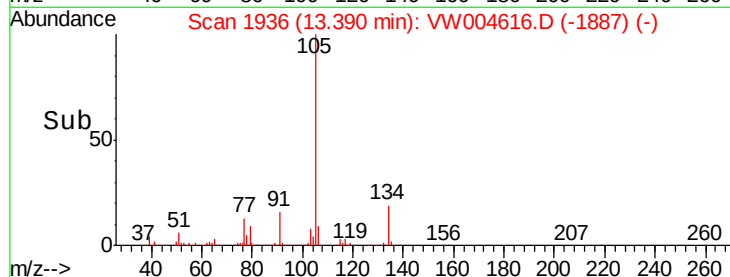
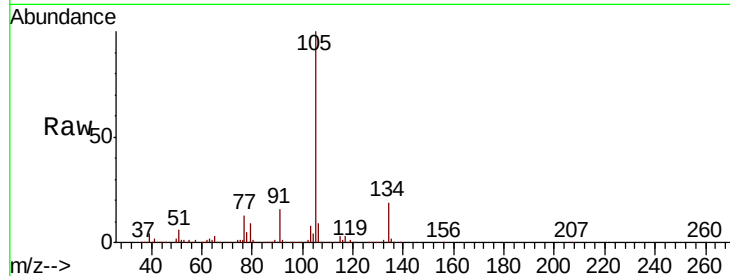




#85  
 sec-Butylbenzene  
 Concen: 21.251 ug/l  
 RT: 13.39 min Scan# 1936  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

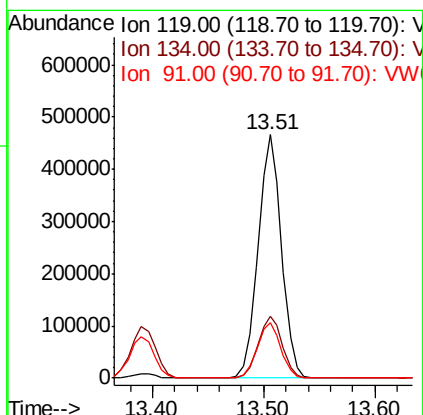
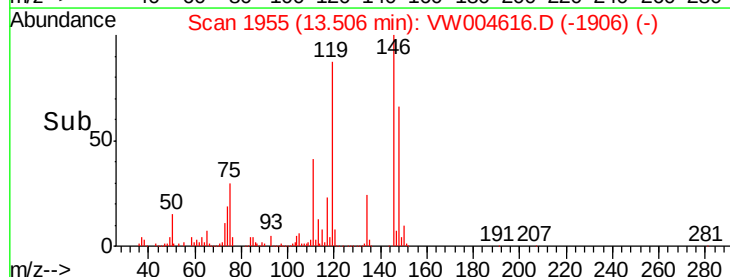
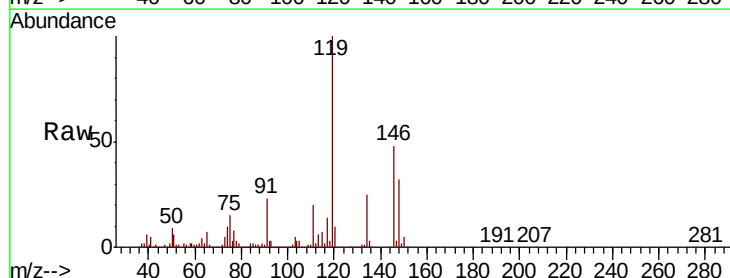
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB

Tgt Ion:105 Resp: 779427  
 Ion Ratio Lower Upper  
 105 100  
 134 19.5 9.8 29.5

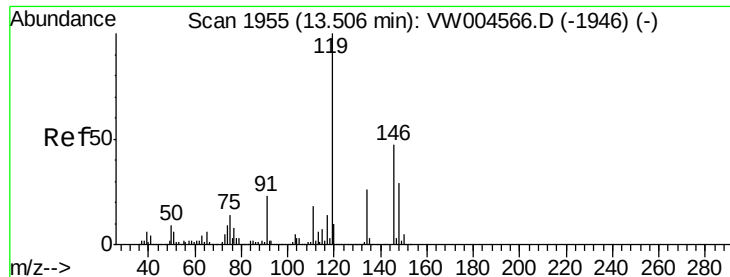


#86  
 p-Isopropyltoluene  
 Concen: 21.353 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion:119 Resp: 678653  
 Ion Ratio Lower Upper  
 119 100  
 134 25.9 13.1 39.1  
 91 22.9 11.4 34.1



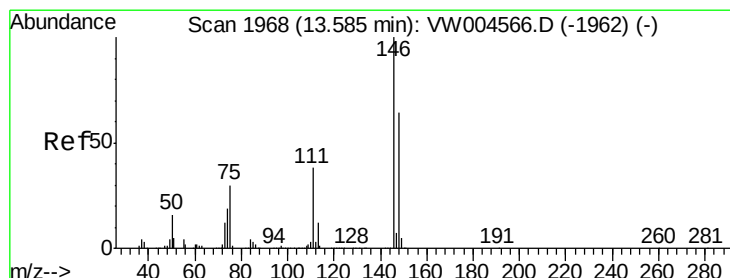
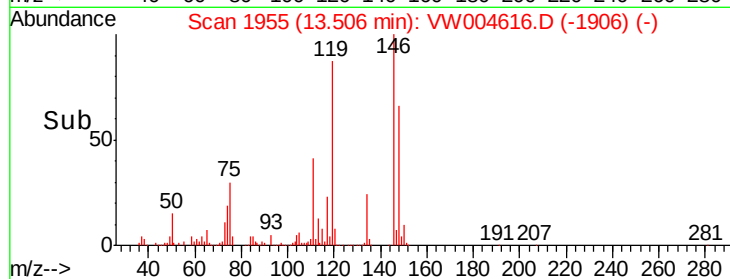
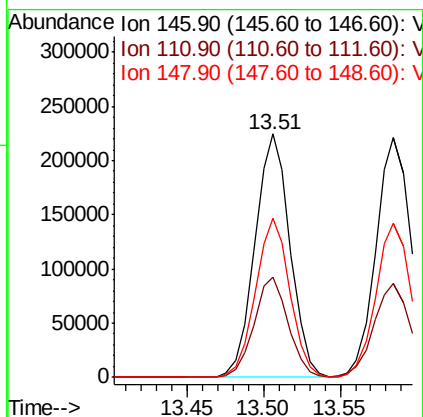
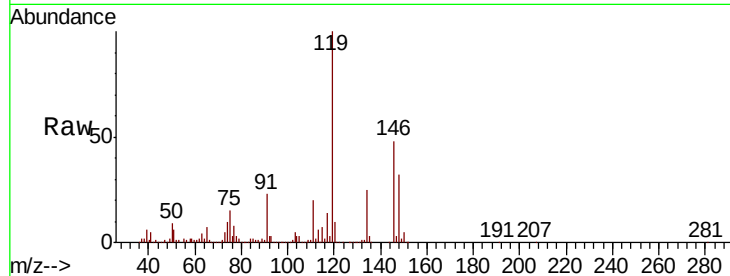




#87  
 1,3-Dichlorobenzene  
 Concen: 21.098 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

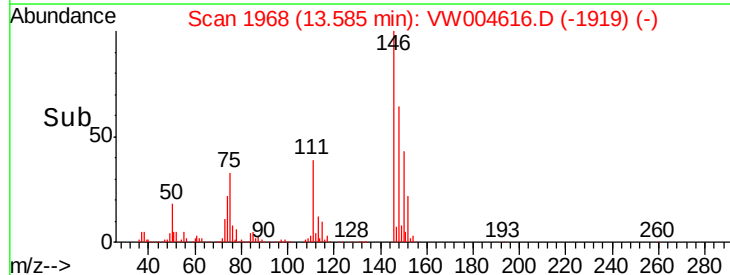
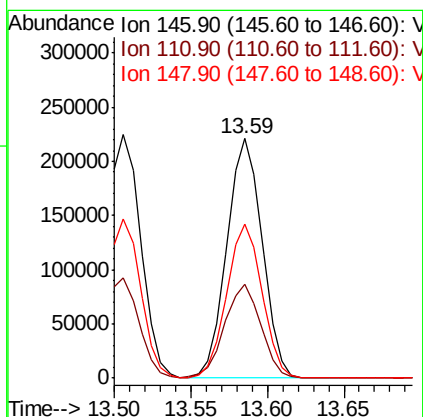
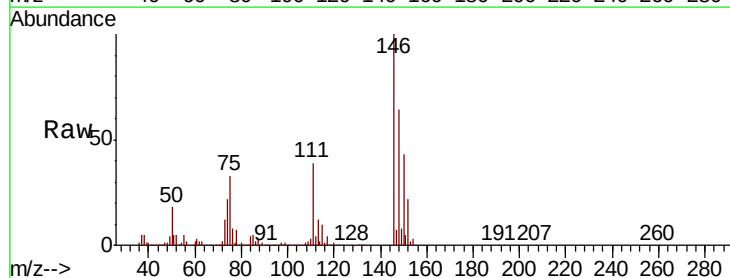
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

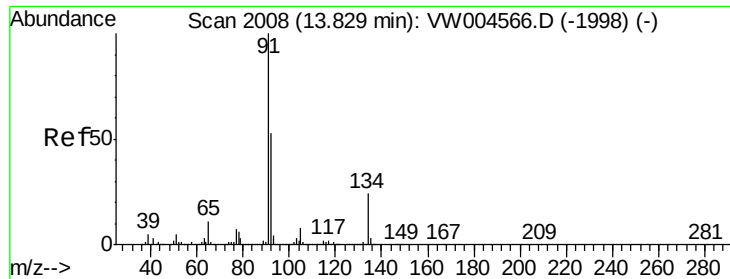
Tgt Ion:146 Resp: 357382  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 20.0 59.9  
 148 64.2 31.7 95.1



#88  
 1,4-Dichlorobenzene  
 Concen: 20.977 ug/l  
 RT: 13.59 min Scan# 1968  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion:146 Resp: 353726  
 Ion Ratio Lower Upper  
 146 100  
 111 40.5 19.6 58.8  
 148 64.5 31.9 95.5

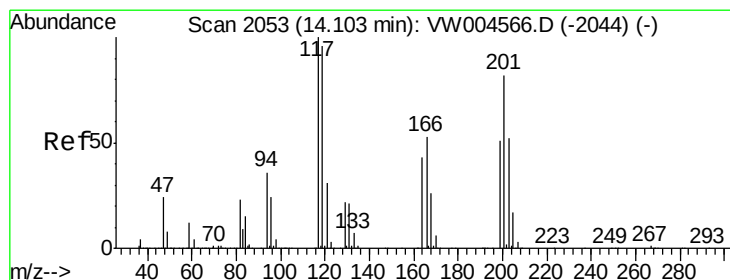
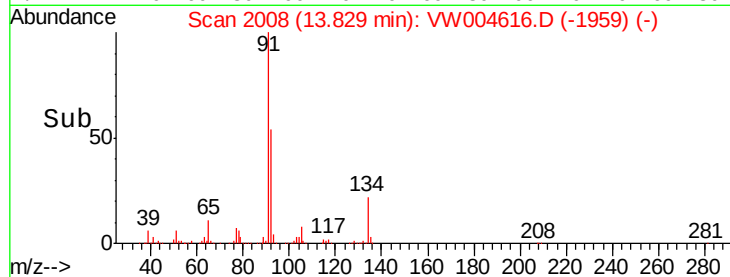
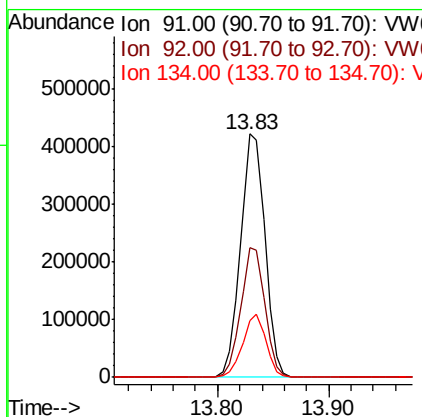
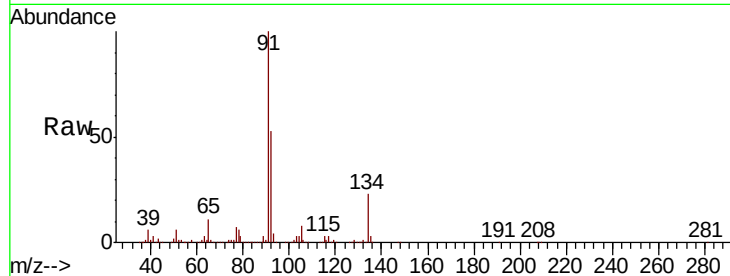




#89  
n-Butylbenzene  
Concen: 20.603 ug/l  
RT: 13.83 min Scan# 2008  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

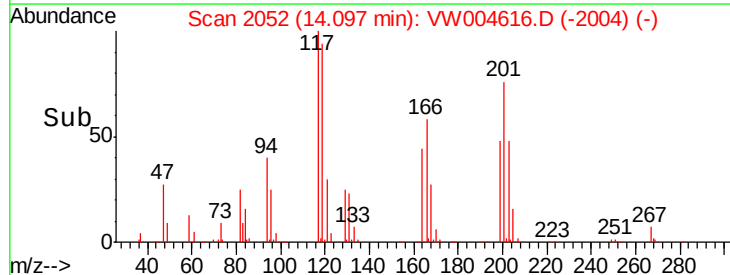
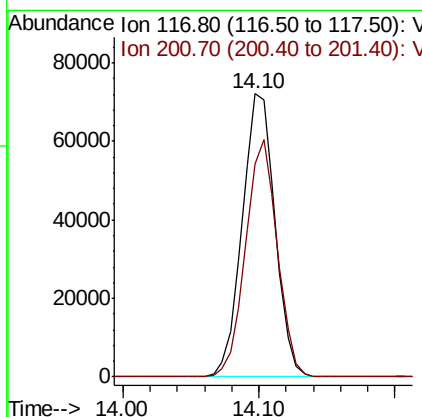
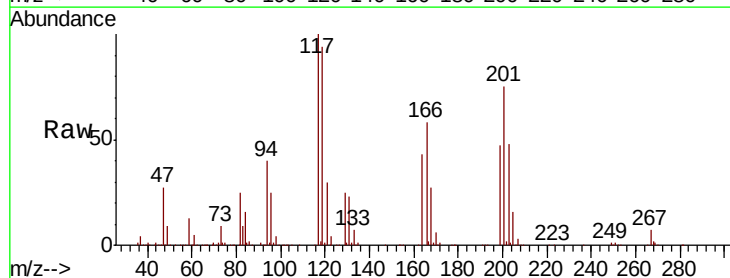
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

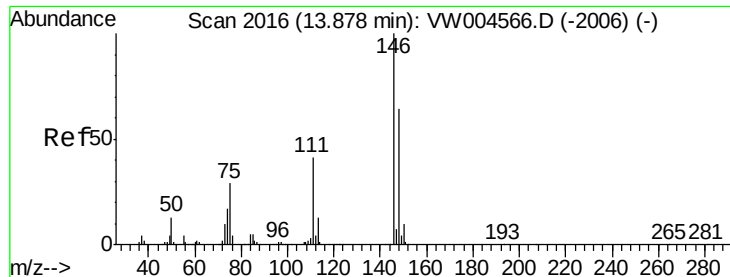
Tgt Ion: 91 Resp: 643359  
Ion Ratio Lower Upper  
91 100  
92 52.4 26.4 79.0  
134 24.6 12.4 37.2



#90  
Hexachloroethane  
Concen: 20.670 ug/l  
RT: 14.10 min Scan# 2052  
Delta R.T. -0.01 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Tgt Ion: 117 Resp: 121544  
Ion Ratio Lower Upper  
117 100  
201 81.1 40.1 120.3

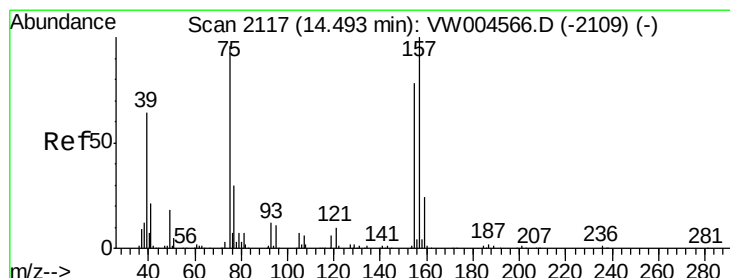
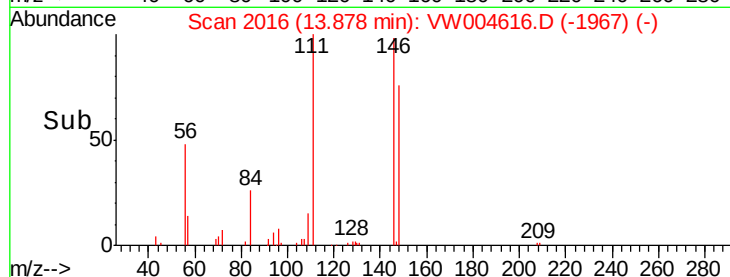
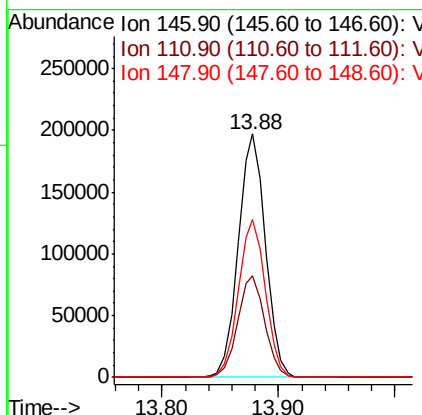
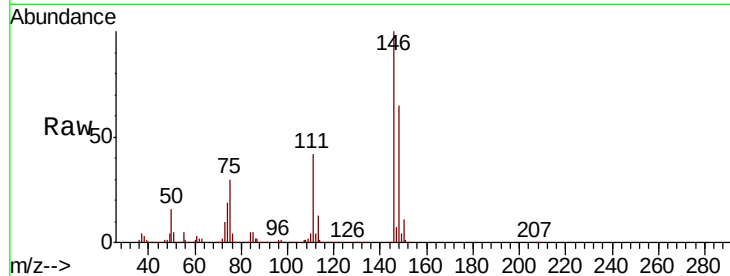




#91  
 1,2-Dichlorobenzene  
 Concen: 20.824 ug/l  
 RT: 13.88 min Scan# 2016  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

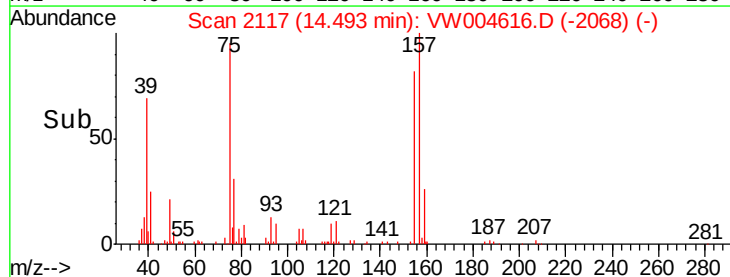
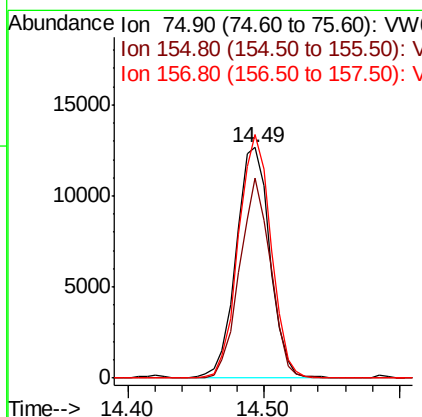
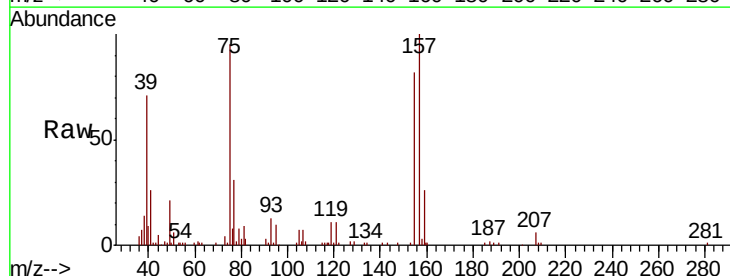
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

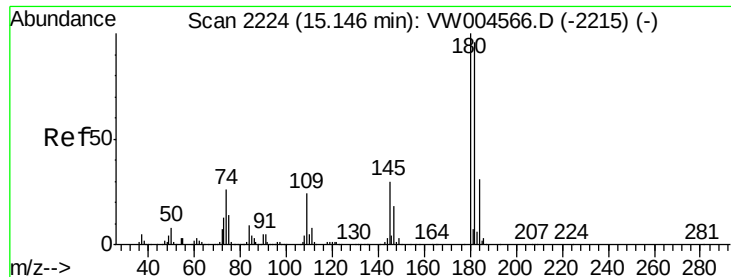
Tgt Ion: 146 Resp: 320014  
 Ion Ratio Lower Upper  
 146 100  
 111 41.6 20.8 62.2  
 148 64.5 31.8 95.4



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.935 ug/l  
 RT: 14.49 min Scan# 2117  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion: 75 Resp: 21946  
 Ion Ratio Lower Upper  
 75 100  
 155 79.5 41.3 123.7  
 157 101.7 52.6 157.8

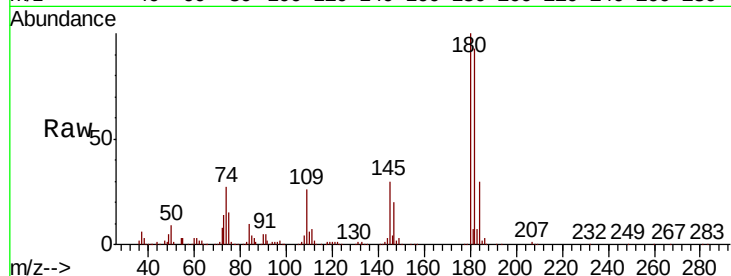




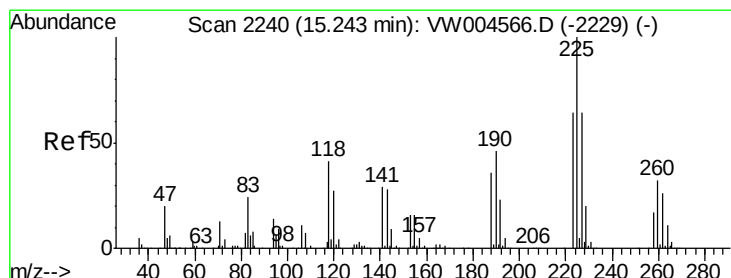
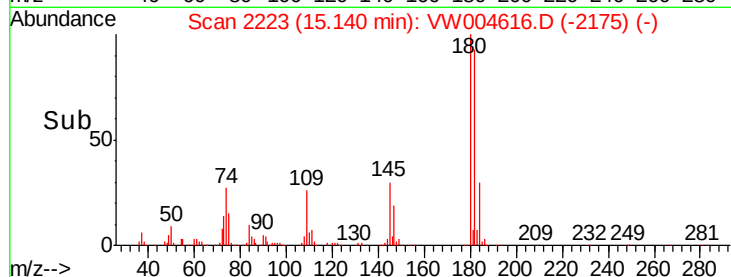
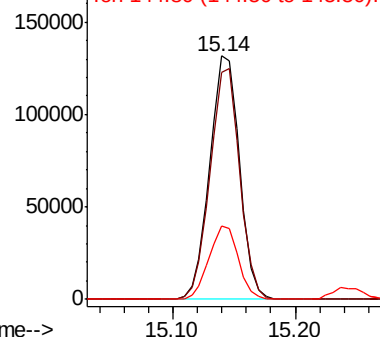
#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.785 ug/l  
 RT: 15.14 min Scan# 2223  
 Delta R.T. -0.01 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

Tgt Ion:180 Resp: 221144  
 Ion Ratio Lower Upper  
 180 100  
 182 94.6 47.9 143.6  
 145 29.8 14.9 44.9

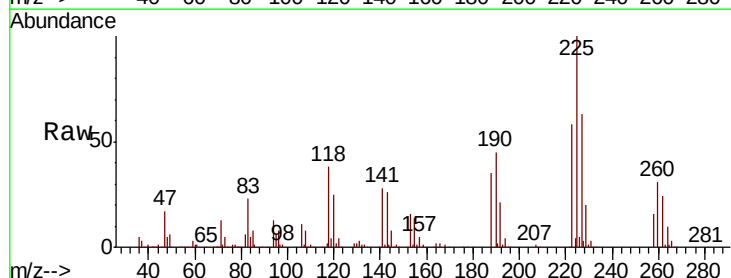


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

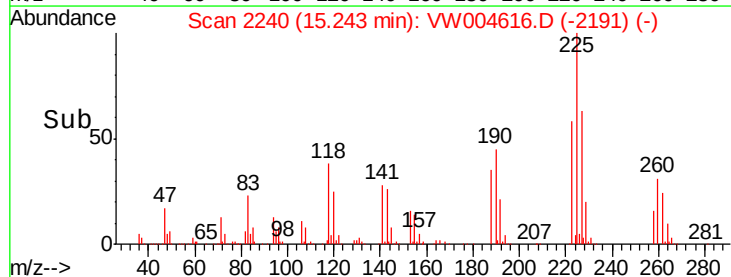
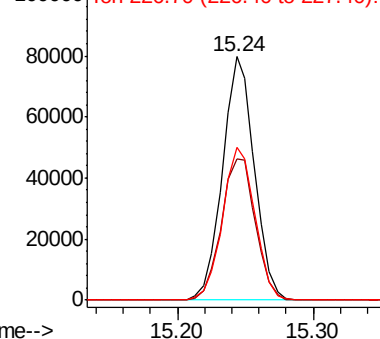


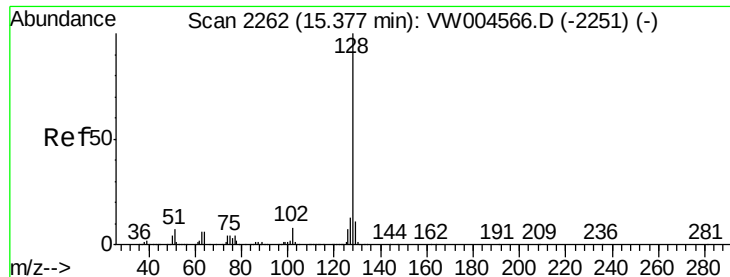
#94  
 Hexachlorobutadiene  
 Concen: 21.103 ug/l  
 RT: 15.24 min Scan# 2240  
 Delta R.T. 0.00 min  
 Lab File: VW004616.D  
 Acq: 11 Aug 2018 01:08

Tgt Ion:225 Resp: 130741  
 Ion Ratio Lower Upper  
 225 100  
 223 62.2 31.3 93.8  
 227 63.8 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V  
 Ion 222.70 (222.40 to 223.40): V  
 Ion 226.70 (226.40 to 227.40): V

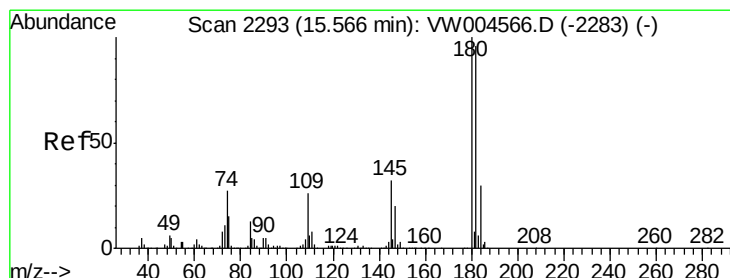
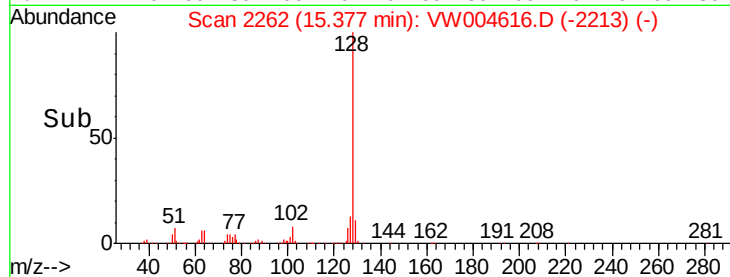
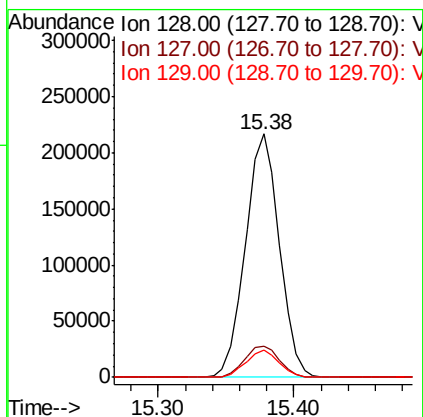
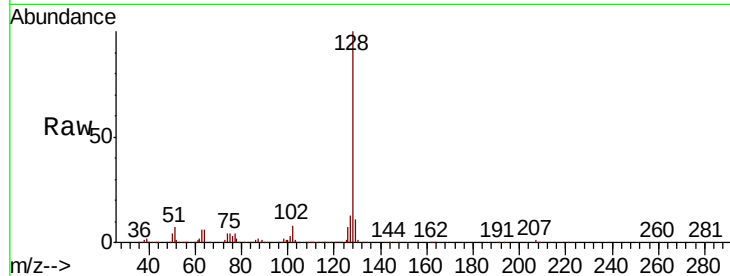




#95  
Naphthalene  
Concen: 19.166 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

Instrument :  
MSVOA\_W  
ClientSampled :  
BFB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.5  | 10.3  | 15.5  |
| 129     | 10.9  | 8.6   | 13.0  |



#96  
1,2,3-Trichlorobenzene  
Concen: 21.094 ug/l  
RT: 15.57 min Scan# 2293  
Delta R.T. 0.00 min  
Lab File: VW004616.D  
Acq: 11 Aug 2018 01:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.6  | 47.0  | 141.2 |
| 145     | 31.2  | 15.9  | 47.6  |

