

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061919\  
 Data File : VW010848.D  
 Acq On : 19 Jun 2019 14:12  
 Operator : SY/VA  
 Sample : VW0619SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

Quant Time: Jun 20 05:46:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 05 03:21:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 267197   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 441308   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 388162   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 185995   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 159486   | 50.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.28% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 123141   | 51.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.82% |      |
| 50) Toluene-d8            | 10.32  | 98  | 519390   | 49.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.90%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 190145   | 49.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.50%  |      |

## Target Compounds

|                               |      |     |        |         | Qvalue    |
|-------------------------------|------|-----|--------|---------|-----------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 48748  | 19.743  | ug/l 99   |
| 3) Chloromethane              | 2.21 | 50  | 72526  | 19.964  | ug/l 96   |
| 4) Vinyl Chloride             | 2.35 | 62  | 64144  | 19.111  | ug/l 98   |
| 5) Bromomethane               | 2.74 | 94  | 39218  | 21.278  | ug/l 96   |
| 6) Chloroethane               | 2.90 | 64  | 39086  | 19.401  | ug/l 99   |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 89267  | 20.488  | ug/l 99   |
| 8) Diethyl Ether              | 3.68 | 74  | 29622  | 19.025  | ug/l 96   |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 54882  | 20.489  | ug/l 100  |
| 10) Methyl Iodide             | 4.27 | 142 | 32242  | 15.362  | ug/l 98   |
| 11) Tert butyl alcohol        | 5.16 | 59  | 34922  | 136.110 | ug/l # 94 |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 50607  | 19.585  | ug/l 95   |
| 13) Acrolein                  | 3.89 | 56  | 6207   | 59.202  | ug/l 96   |
| 14) Allyl chloride            | 4.67 | 41  | 118274 | 20.759  | ug/l 98   |
| 15) Acrylonitrile             | 5.37 | 53  | 72077  | 95.286  | ug/l 98   |
| 16) Acetone                   | 4.12 | 43  | 92205  | 109.265 | ug/l 99   |
| 17) Carbon Disulfide          | 4.37 | 76  | 151897 | 18.518  | ug/l 100  |
| 18) Methyl Acetate            | 4.67 | 43  | 35827  | 19.723  | ug/l 99   |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 142109 | 19.068  | ug/l 97   |
| 20) Methylene Chloride        | 4.92 | 84  | 59979  | 20.261  | ug/l 96   |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 58420  | 19.916  | ug/l 97   |
| 22) Diisopropyl ether         | 6.31 | 45  | 236325 | 20.718  | ug/l 99   |
| 23) Vinyl Acetate             | 6.26 | 43  | 665031 | 96.608  | ug/l 99   |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 118662 | 20.759  | ug/l 98   |
| 25) 2-Butanone                | 7.17 | 43  | 112719 | 96.330  | ug/l 95   |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 103796 | 22.314  | ug/l 96   |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96  | 65457  | 20.277  | ug/l 95   |
| 28) Bromochloromethane        | 7.51 | 49  | 52428  | 20.552  | ug/l 97   |
| 29) Tetrahydrofuran           | 7.53 | 42  | 67484  | 91.689  | ug/l 98   |
| 30) Chloroform                | 7.67 | 83  | 107342 | 20.530  | ug/l 98   |
| 31) Cyclohexane               | 7.95 | 56  | 125010 | 19.673  | ug/l 96   |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 93754  | 20.527  | ug/l 99   |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 90503  | 20.035  | ug/l 99   |
| 37) Ethyl Acetate             | 7.26 | 43  | 48201  | 19.256  | ug/l 100  |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 79993  | 20.513  | ug/l 99   |

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Instrument :  
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Quant Time: Jun 20 05:46:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 05 03:21:19 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 111296   | 19.381  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 250491   | 20.327  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 27796    | 18.681  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 79368    | 20.292  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 89472    | 18.501  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 59760    | 19.659  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 66540    | 20.397  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 29621    | 19.549  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 77293    | 19.679  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.44  | 41   | 42761    | 18.339  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.44  | 88   | 8685     | 366.620 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 231530   | 93.714  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 150971   | 19.911  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 79339    | 19.071  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 96600    | 19.733  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 42356    | 19.405  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 60923    | 18.139  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 79880    | 19.419  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 171197   | 97.313  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 161720   | 90.571  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.13 | 129  | 45164    | 18.665  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 38879    | 18.799  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 50683    | 19.666  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 153491   | 20.108  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 52400    | 19.831  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 296407   | 20.205  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.84 | 106  | 211258   | 40.229  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 97748    | 19.626  | ug/l   | 95       |
| 70) Styrene                    | 12.18 | 104  | 171409   | 19.812  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 24438    | 17.883  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 281651   | 20.151  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 84116    | 18.622  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 49939    | 18.768  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 66987    | 34.296  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 60043    | 19.680  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 343928   | 20.407  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 196551   | 20.413  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 232834   | 20.352  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 14612    | 17.194  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 202648   | 20.395  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 202841   | 20.892  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 233940   | 20.321  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 287087   | 20.309  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 254183   | 20.107  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 119172   | 20.255  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 117240   | 20.100  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 258439   | 20.490  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 45290    | 20.006  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 103953   | 19.647  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 8030     | 17.574  | ug/l   | 98       |

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Acq On : 19 Jun 2019 14:12  
Operator : SY/VA  
Sample : VW0619SBS01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

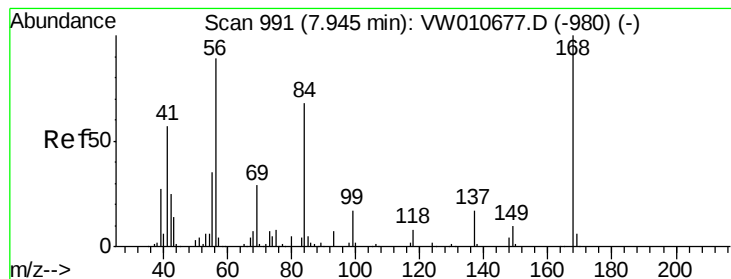
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

Quant Time: Jun 20 05:46:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 05 03:21:19 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 72541    | 19.537 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 46533    | 19.969 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 114363   | 16.952 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 61086    | 19.345 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

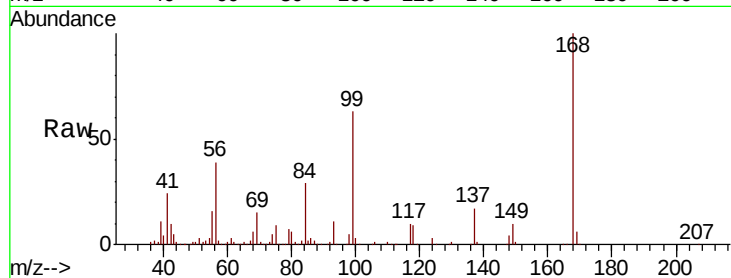
VW0619SBS01

Tot Ion:168 Resp: 267197

Ion Ratio Lower Upper

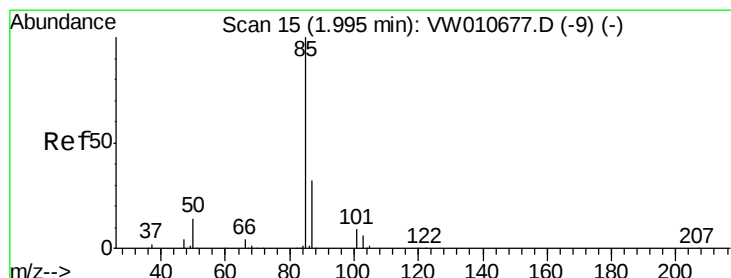
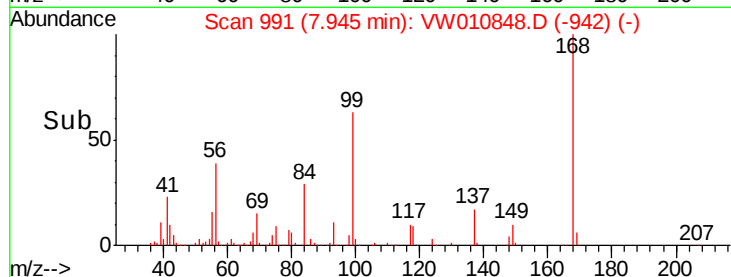
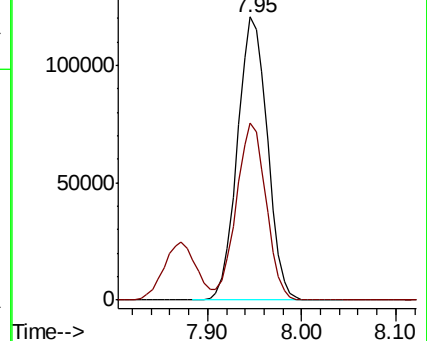
168 100

99 62.6 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 19.743 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.00 min

Lab File: VW010848.D

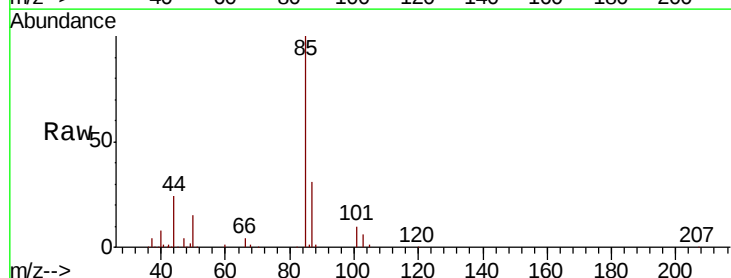
Acq: 19 Jun 2019 14:12

Tgt Ion: 85 Resp: 48748

Ion Ratio Lower Upper

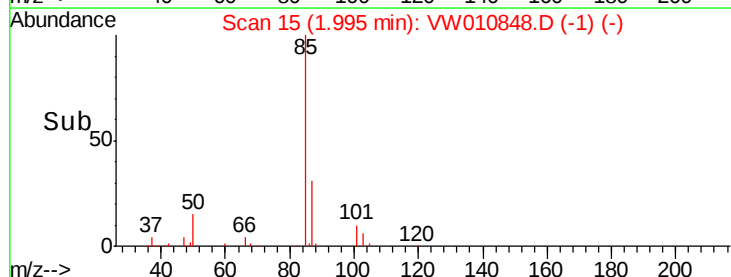
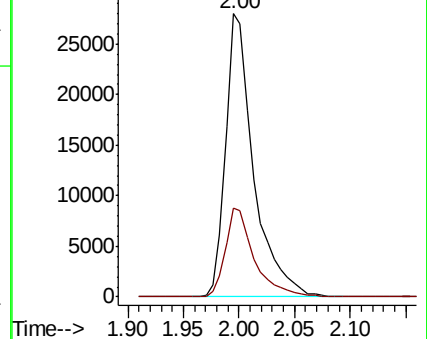
85 100

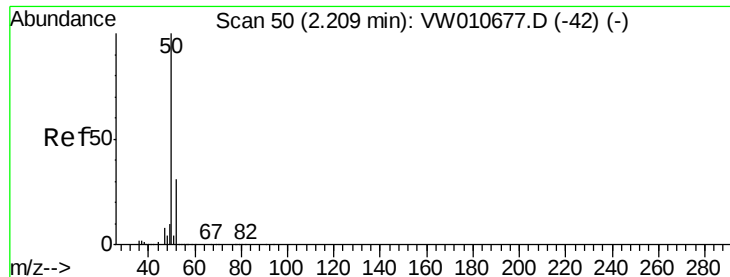
87 31.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 19.964 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

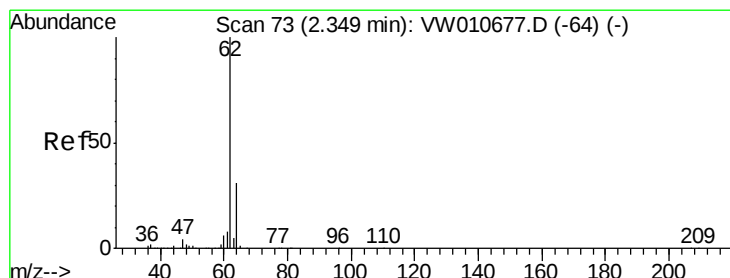
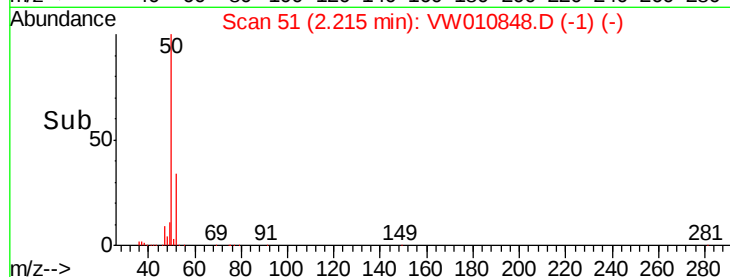
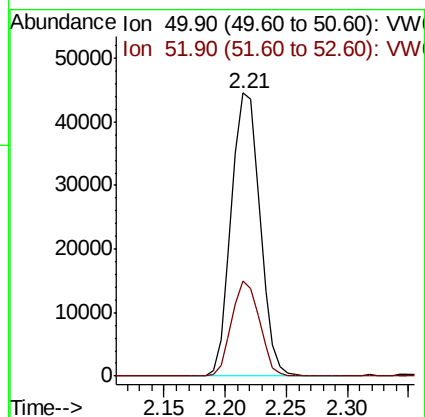
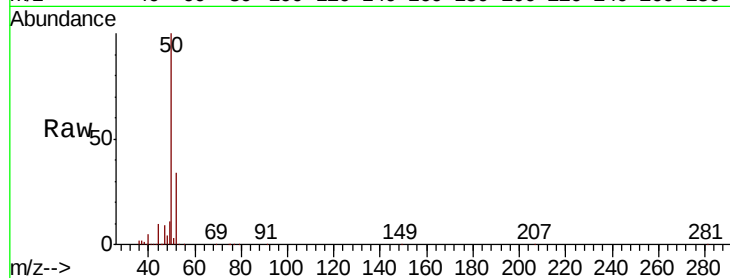
VW0619SBS01

Tot Ion: 50 Resp: 72526

Ion Ratio Lower Upper

50 100

52 33.8 25.2 37.8



#4

Vinyl Chloride

Concen: 19.111 ug/l

RT: 2.35 min Scan# 74

Delta R.T. 0.01 min

Lab File: VW010848.D

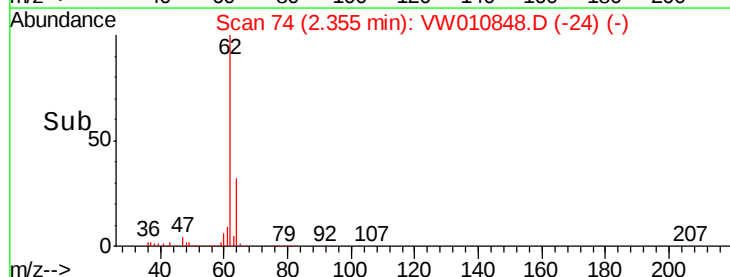
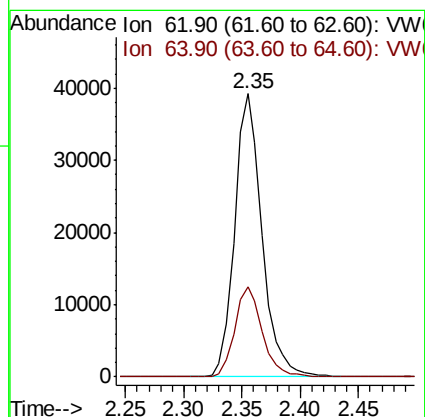
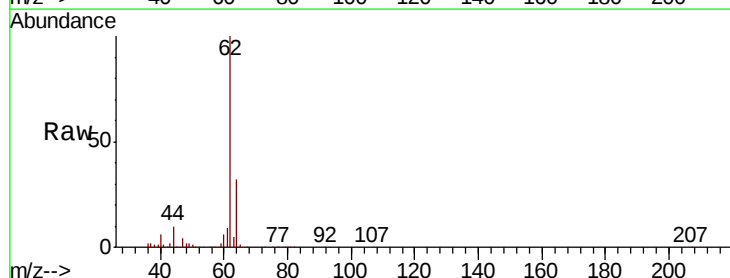
Acq: 19 Jun 2019 14:12

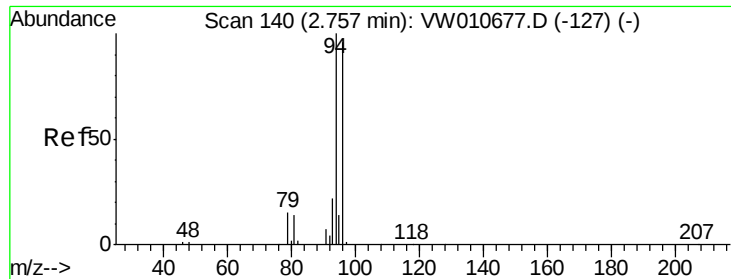
Tgt Ion: 62 Resp: 64144

Ion Ratio Lower Upper

62 100

64 31.6 24.5 36.7





#5

Bromomethane

Concen: 21.278 ug/l

RT: 2.74 min Scan# 138

Delta R.T. -0.01 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

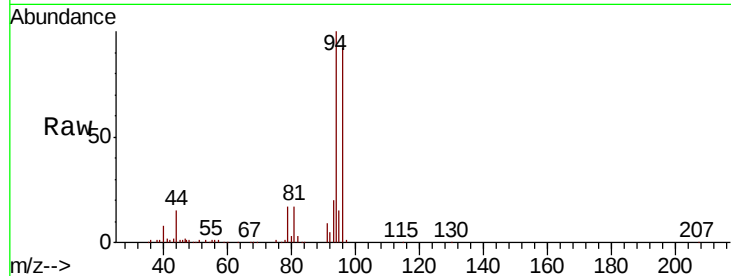
VW0619SBS01

Tot Ion: 94 Resp: 39218

Ion Ratio Lower Upper

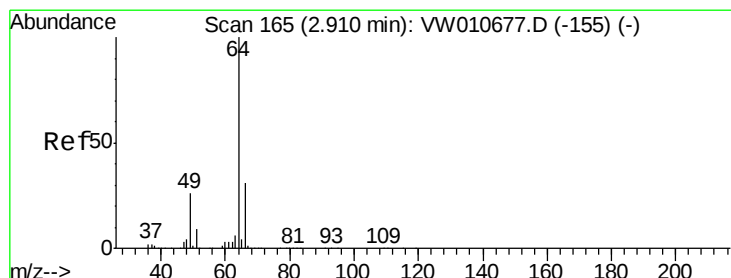
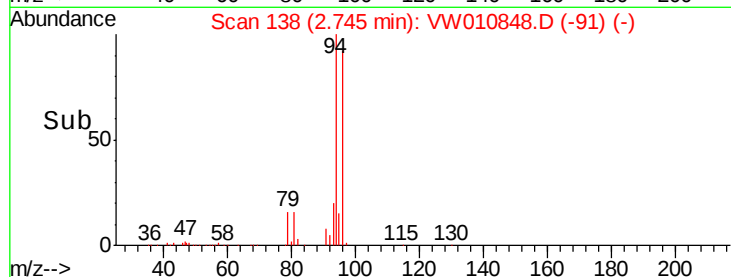
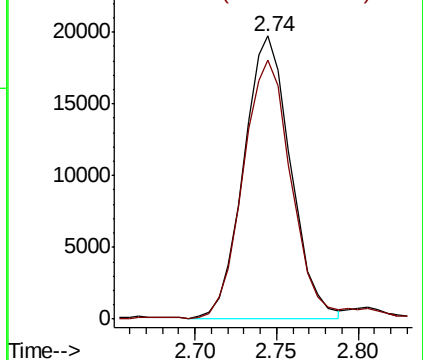
94 100

96 91.5 76.5 114.7



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 19.401 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW010848.D

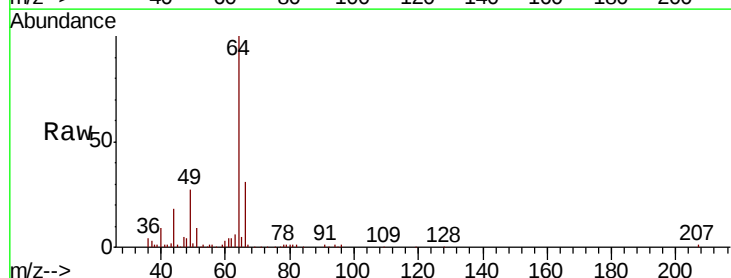
Acq: 19 Jun 2019 14:12

Tgt Ion: 64 Resp: 39086

Ion Ratio Lower Upper

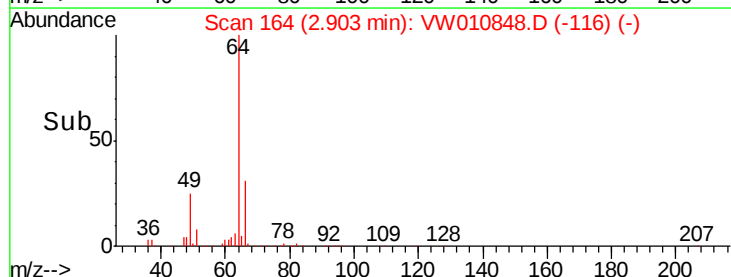
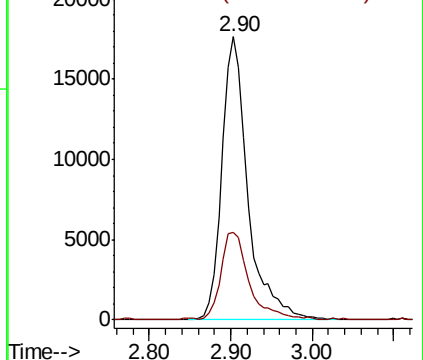
64 100

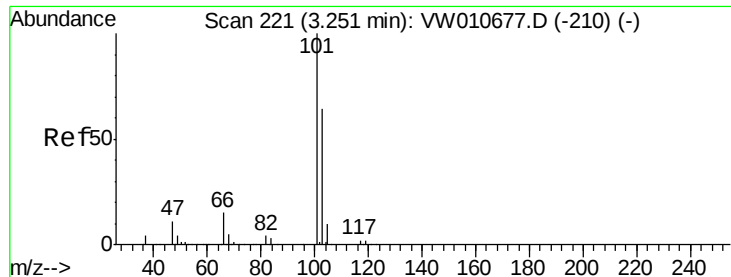
66 30.7 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



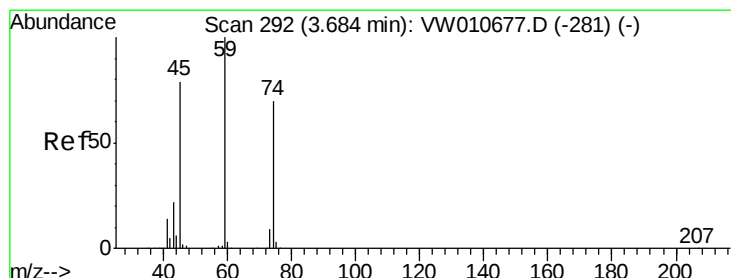
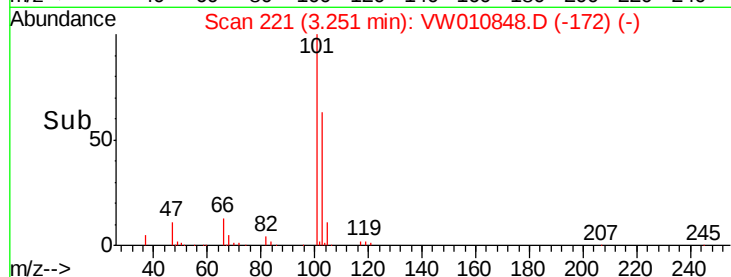
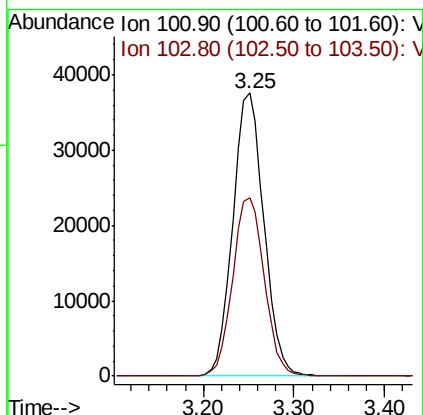
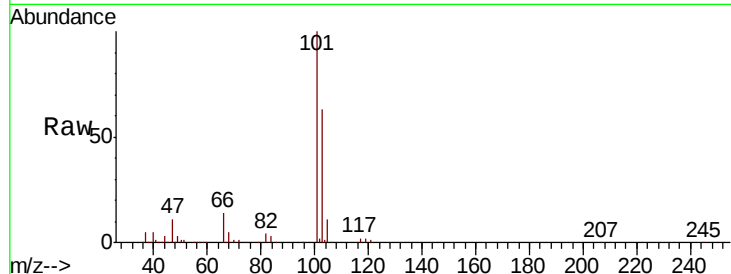


#7

Trichlorofluoromethane  
 Concen: 20.488 ug/l  
 RT: 3.25 min Scan# 221  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

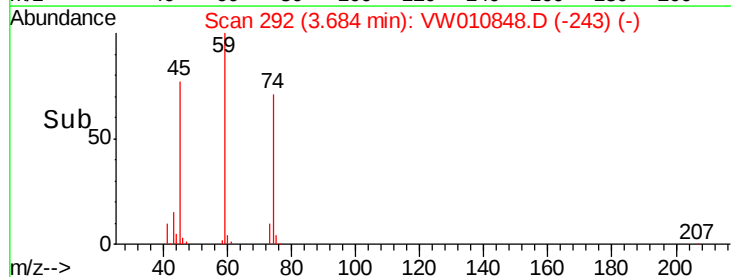
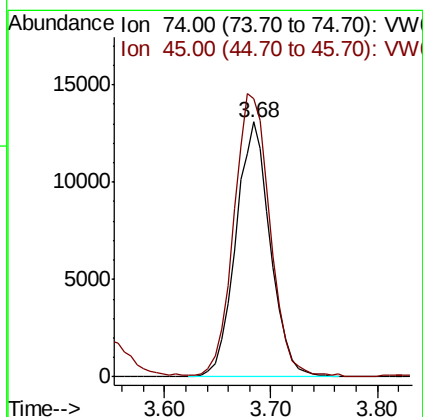
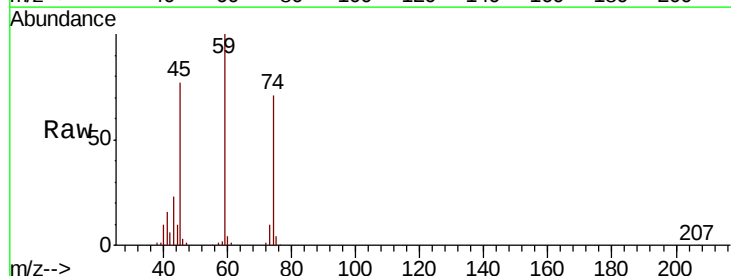
Tot Ion:101 Resp: 89267  
 Ion Ratio Lower Upper  
 101 100  
 103 63.2 51.2 76.8

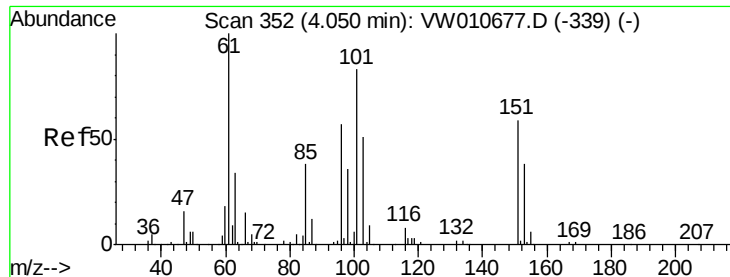


#8

Diethyl Ether  
 Concen: 19.025 ug/l  
 RT: 3.68 min Scan# 292  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Tgt Ion: 74 Resp: 29622  
 Ion Ratio Lower Upper  
 74 100  
 45 117.9 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.489 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

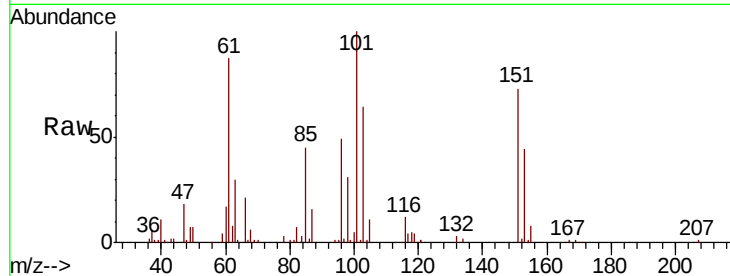
Tot Ion:101 Resp: 54882

Ion Ratio Lower Upper

101 100

85 44.8 35.8 53.8

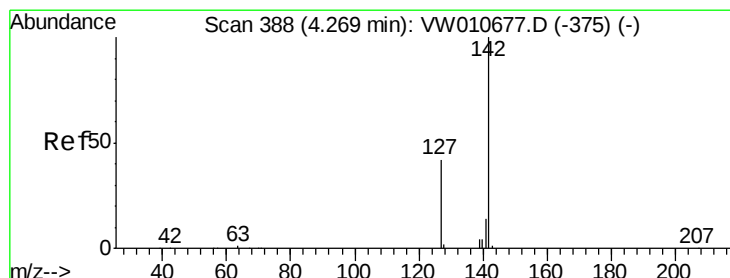
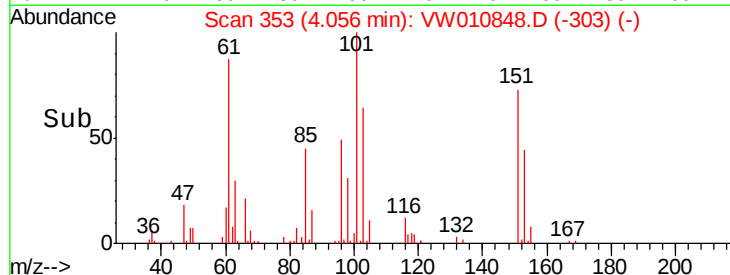
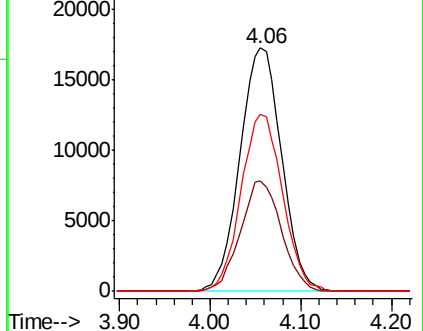
151 72.5 58.1 87.1



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: 15.362 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

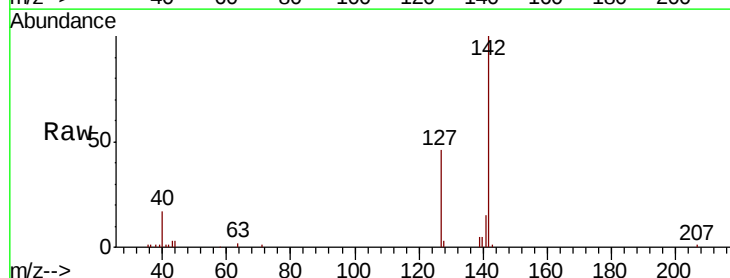
Tgt Ion:142 Resp: 32242

Ion Ratio Lower Upper

142 100

127 44.8 34.6 51.8

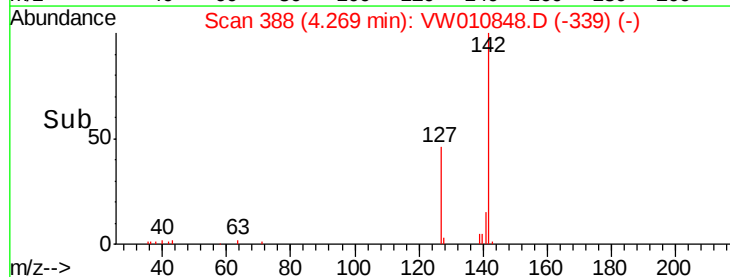
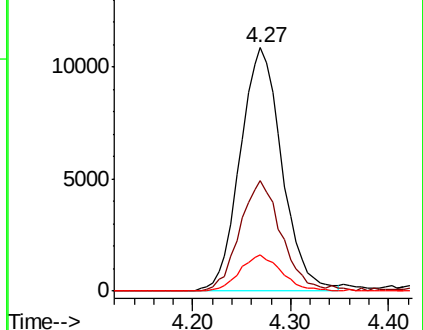
141 14.8 11.6 17.4

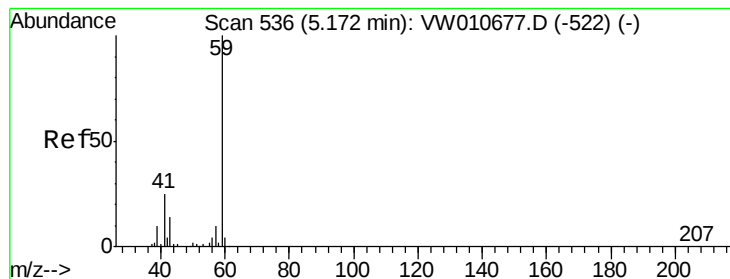


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



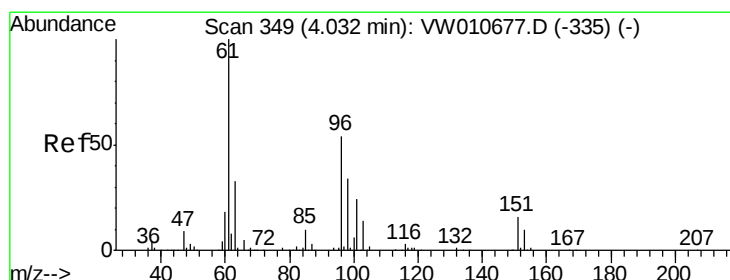
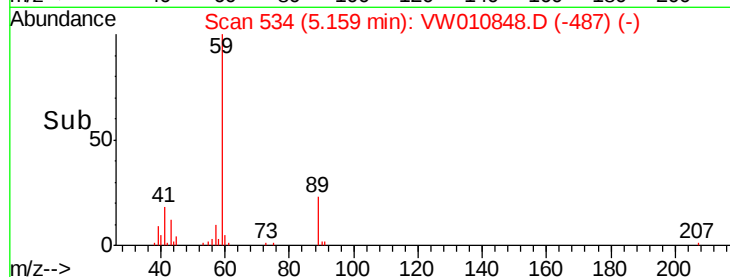
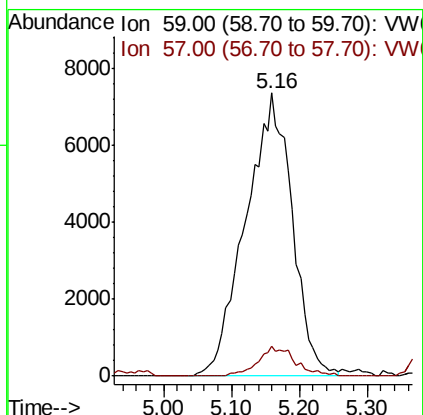
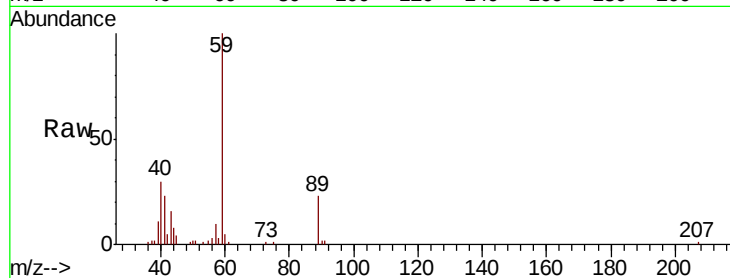


#11

Tert butyl alcohol  
 Concen: 136.110 ug/l  
 RT: 5.16 min Scan# 534  
 Delta R.T. -0.01 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

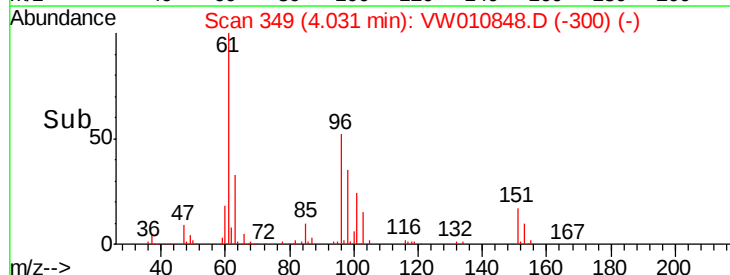
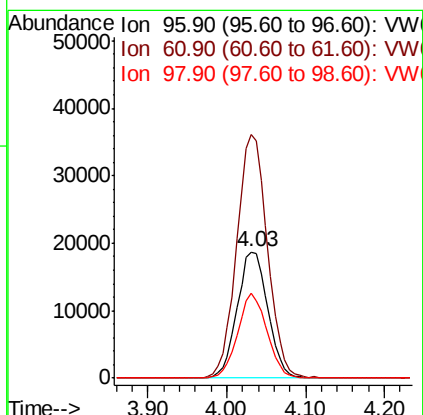
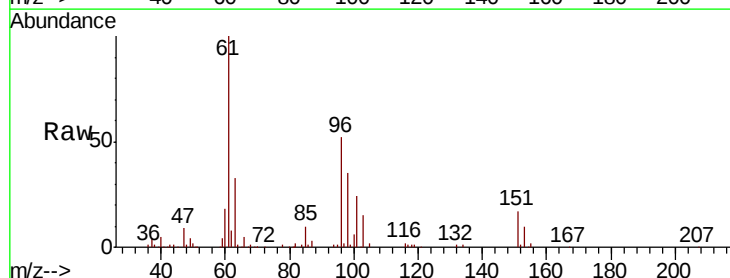
Tot Ion: 59 Resp: 34922  
 Ion Ratio Lower Upper  
 59 100  
 57 8.4 8.6 12.8#

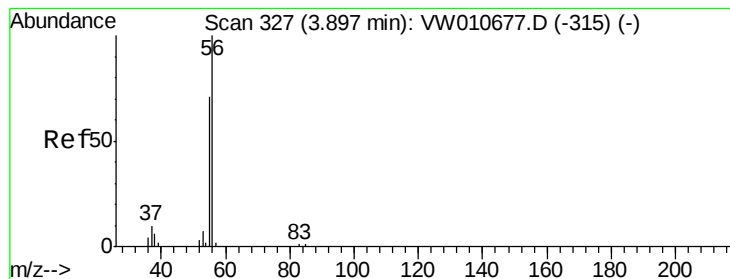


#12

1,1-Dichloroethene  
 Concen: 19.585 ug/l  
 RT: 4.03 min Scan# 349  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Tgt Ion: 96 Resp: 50607  
 Ion Ratio Lower Upper  
 96 100  
 61 193.1 149.1 223.7  
 98 67.8 51.1 76.7





#13

Acrolein

Concen: 59.202 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.01 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

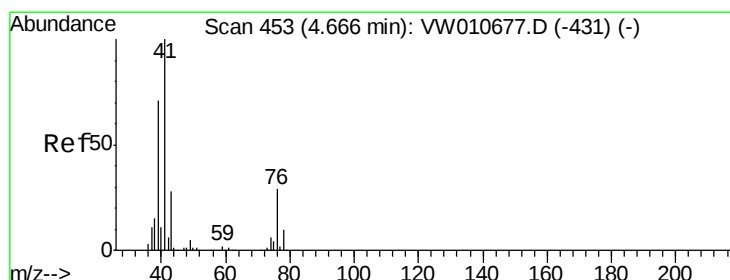
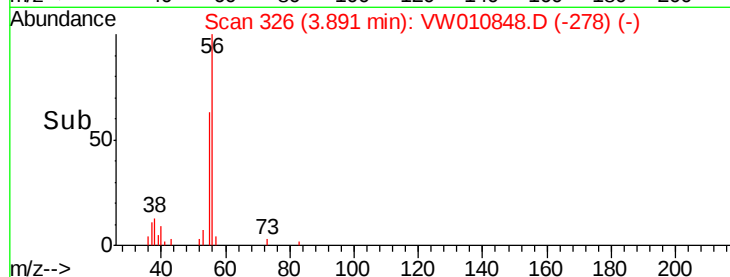
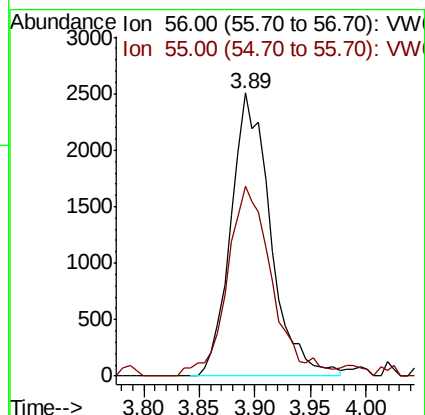
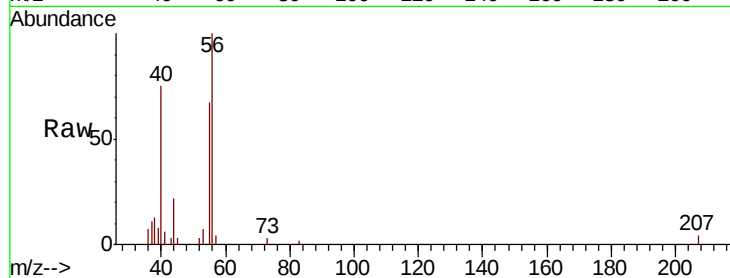
VW0619SBS01

Tot Ion: 56 Resp: 6207

Ion Ratio Lower Upper

56 100

55 75.1 57.6 86.4



#14

Allyl chloride

Concen: 20.759 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

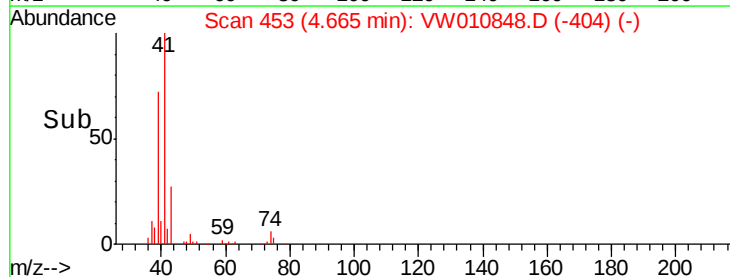
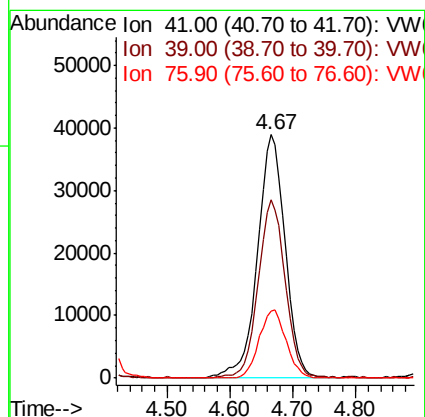
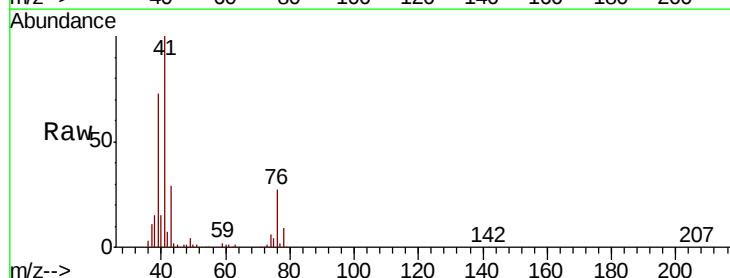
Tgt Ion: 41 Resp: 118274

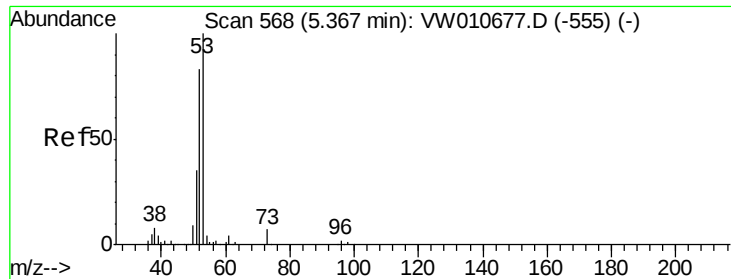
Ion Ratio Lower Upper

41 100

39 71.8 55.8 83.6

76 27.4 22.7 34.1





#15

Acrylonitrile

Concen: 95.286 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

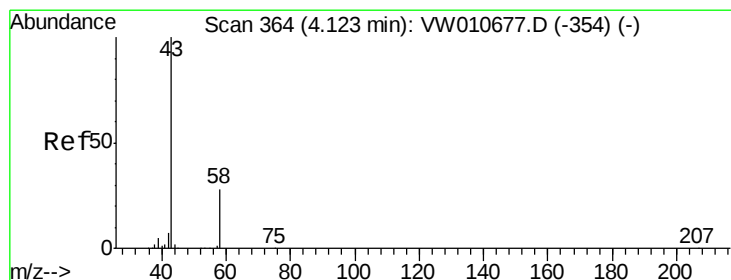
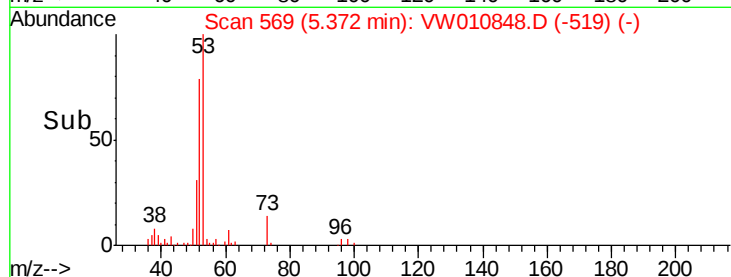
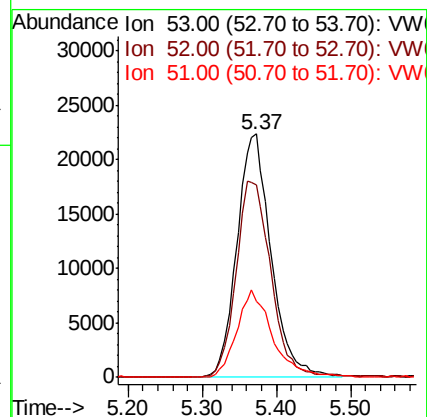
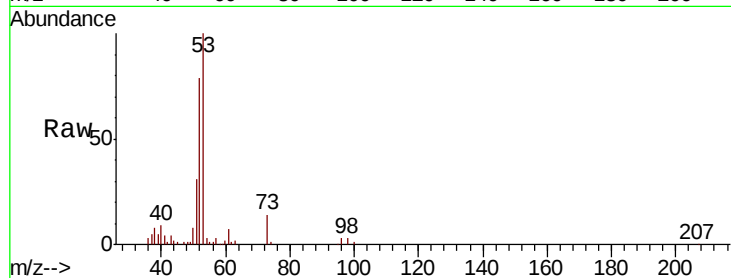
Tot Ion: 53 Resp: 72077

Ion Ratio Lower Upper

53 100

52 81.2 66.6 100.0

51 37.5 29.8 44.8



#16

Acetone

Concen: 109.265 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW010848.D

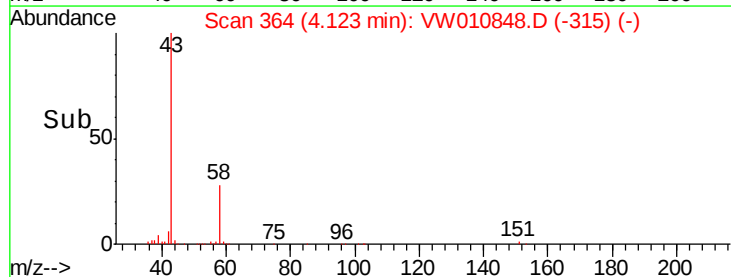
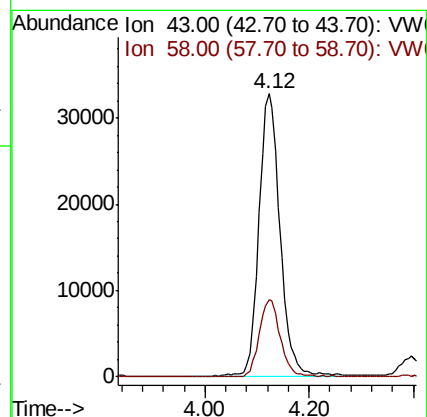
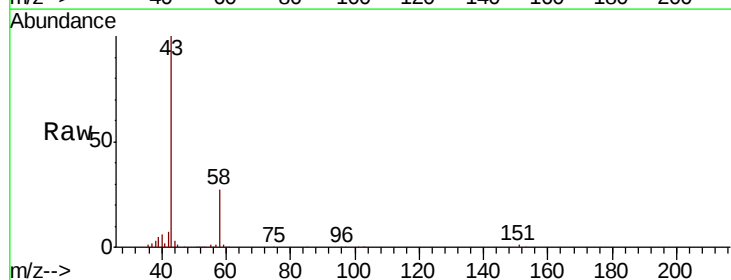
Acq: 19 Jun 2019 14:12

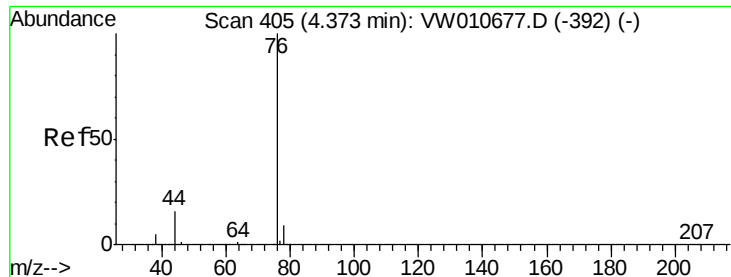
Tgt Ion: 43 Resp: 92205

Ion Ratio Lower Upper

43 100

58 27.2 22.1 33.1

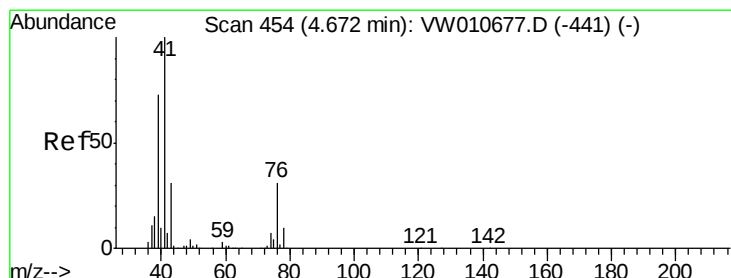
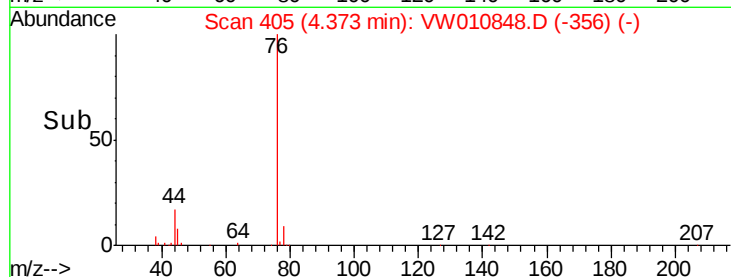
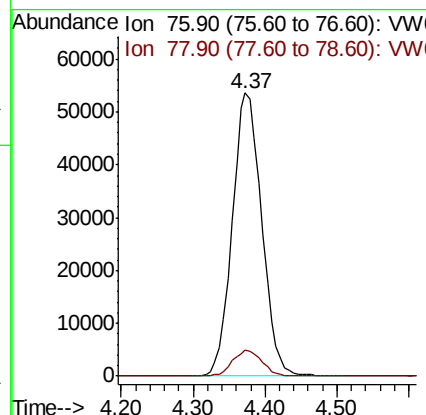
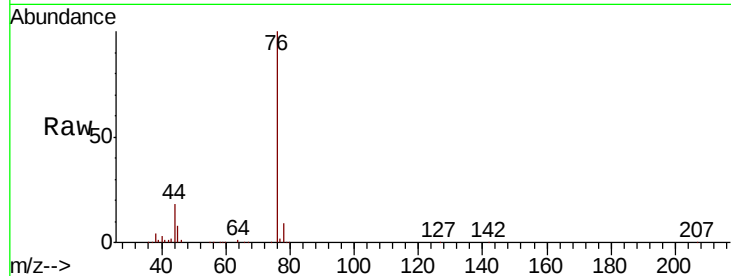




#17  
Carbon Disulfide  
Concen: 18.518 ug/l  
RT: 4.37 min Scan# 405  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

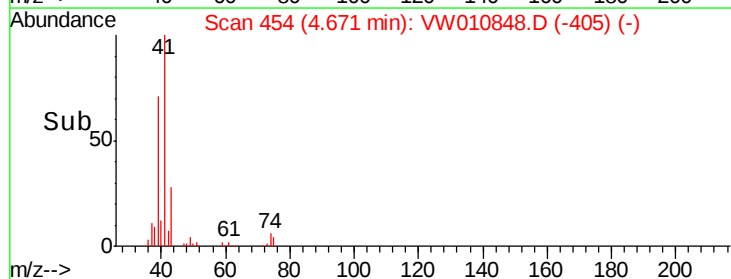
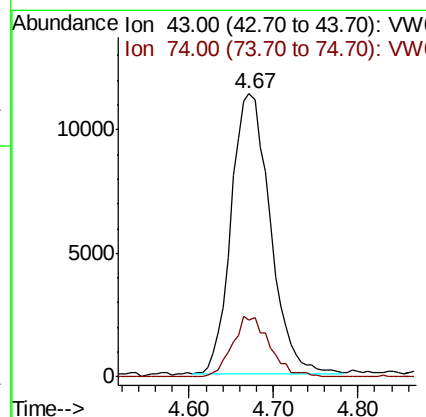
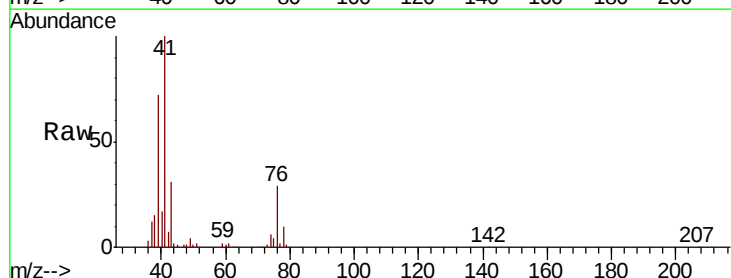
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

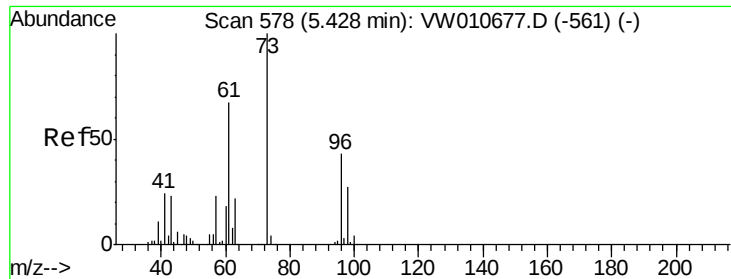
Tot Ion: 76 Resp: 151897  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.5 11.3



#18  
Methyl Acetate  
Concen: 19.723 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 43 Resp: 35827  
Ion Ratio Lower Upper  
43 100  
74 20.4 16.7 25.1

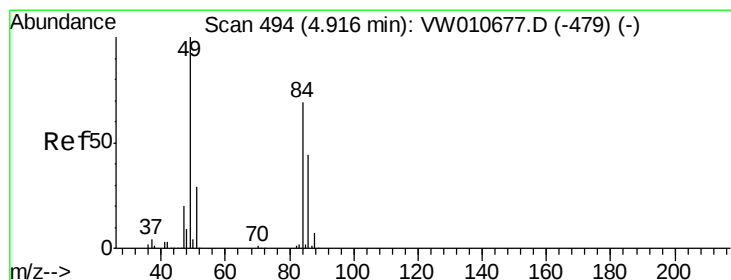
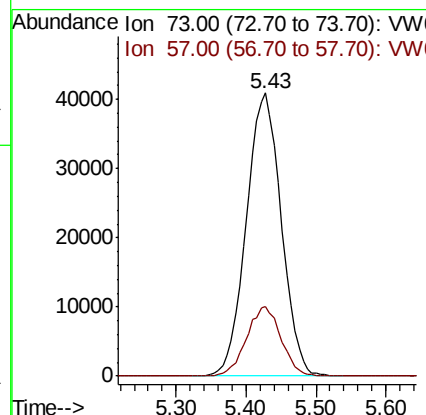
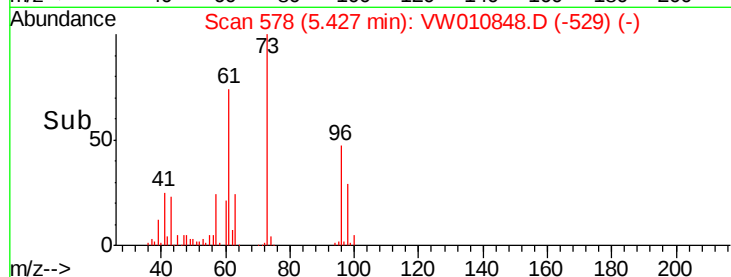
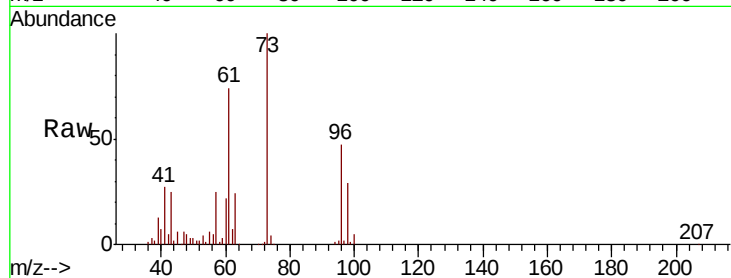




#19  
Methvl tert-butvl Ether  
Concen: 19.068 ug/l  
RT: 5.43 min Scan# 578  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

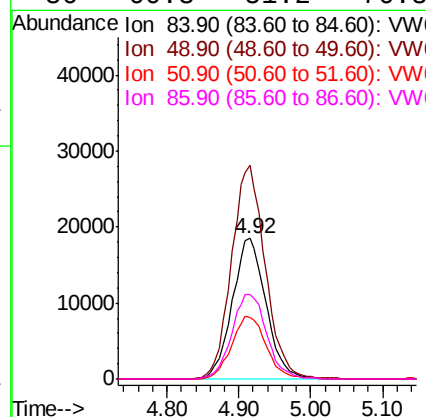
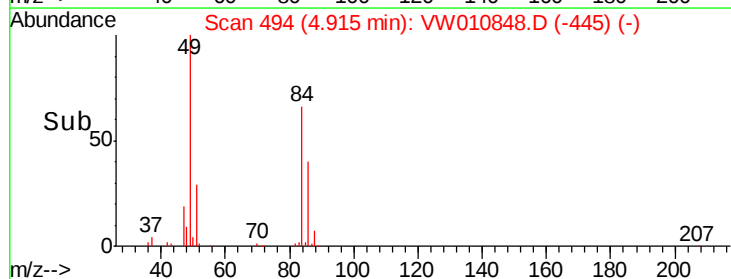
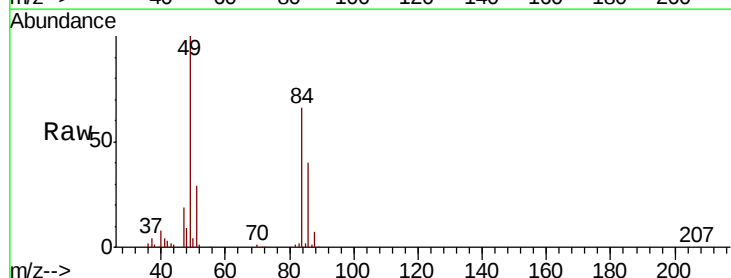
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

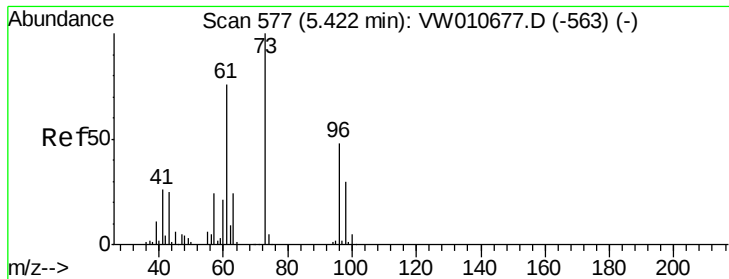
Tot Ion: 73 Resp: 142109  
Ion Ratio Lower Upper  
73 100  
57 24.6 18.6 27.8



#20  
Methylene Chloride  
Concen: 20.261 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 84 Resp: 59979  
Ion Ratio Lower Upper  
84 100  
49 151.8 116.7 175.1  
51 43.8 34.2 51.2  
86 60.3 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 19.916 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

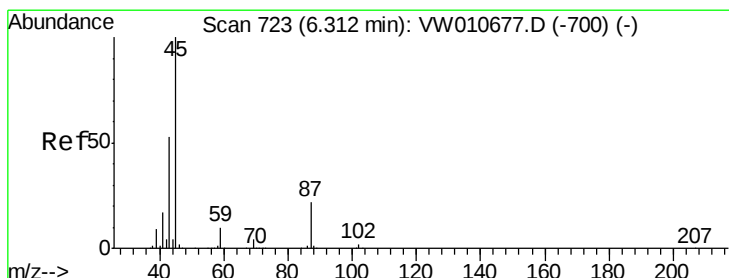
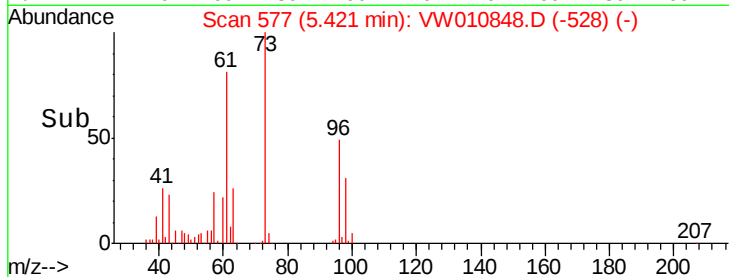
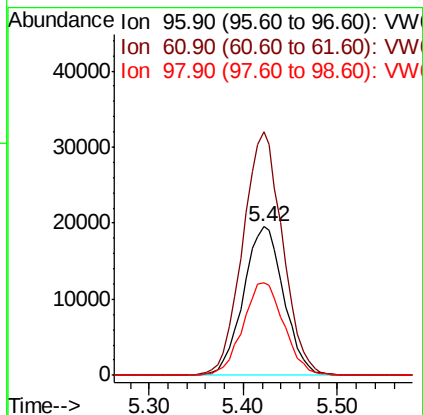
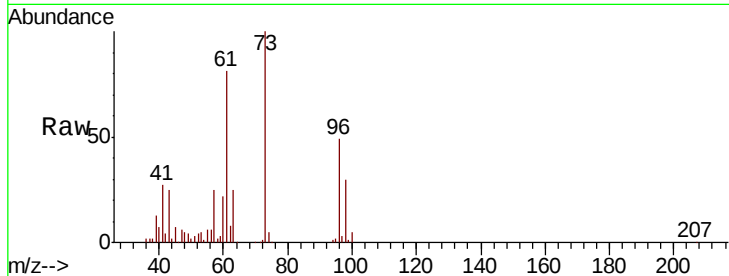
Tot Ion: 96 Resp: 58420

Ion Ratio Lower Upper

96 100

61 163.7 126.0 189.0

98 61.8 49.6 74.4



#22

Diisopropyl ether

Concen: 20.718 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Tgt Ion: 45 Resp: 236325

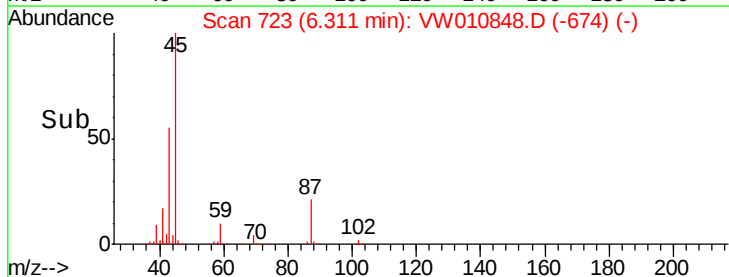
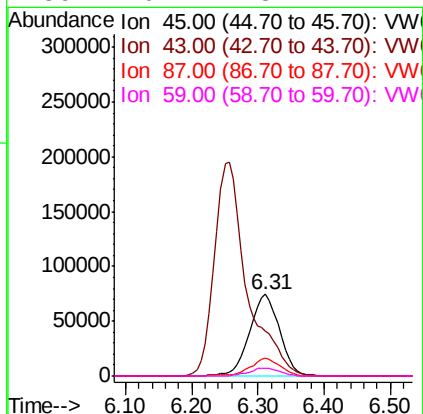
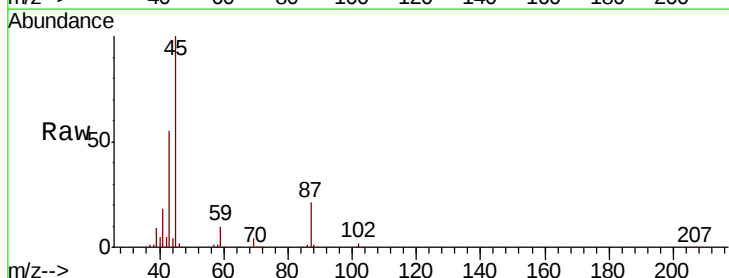
Ion Ratio Lower Upper

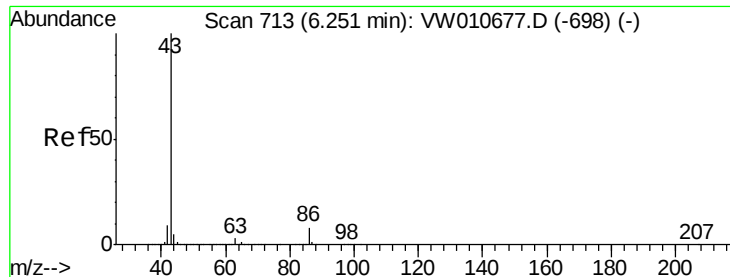
45 100

43 54.4 42.5 63.7

87 21.3 17.4 26.2

59 10.1 8.1 12.1





#23

Vinyl Acetate

Concen: 96.608 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

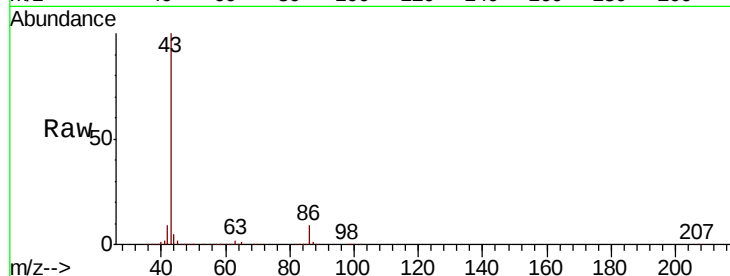
VW0619SBS01

Tot Ion: 43 Resp: 665031

Ion Ratio Lower Upper

43 100

86 8.7 6.6 10.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.26

200000

150000

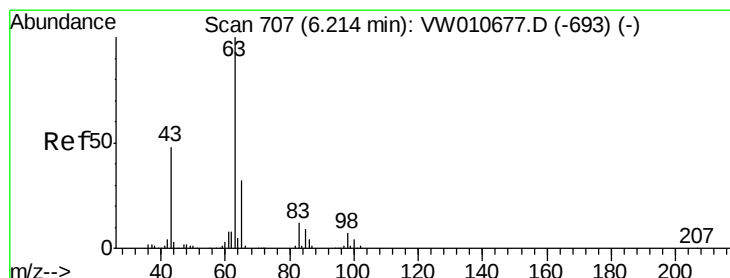
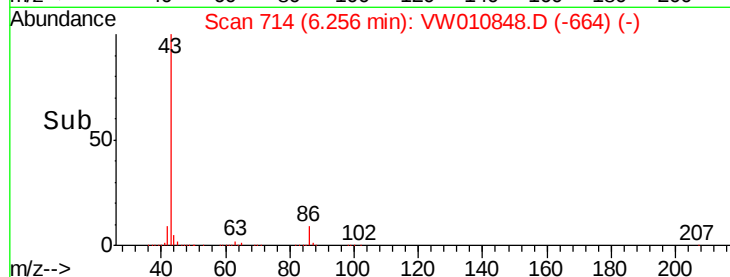
100000

50000

0

6.10 6.20 6.30 6.40

Time-->



#24

1,1-Dichloroethane

Concen: 20.759 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

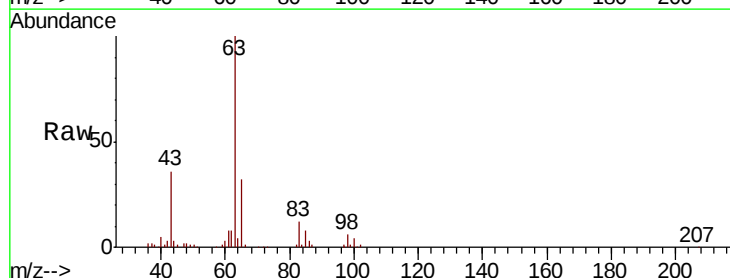
Tgt Ion: 63 Resp: 118662

Ion Ratio Lower Upper

63 100

98 5.8 3.4 10.2

100 4.0 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

6.21

50000

40000

30000

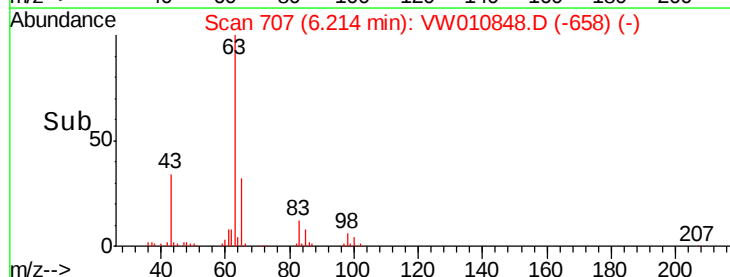
20000

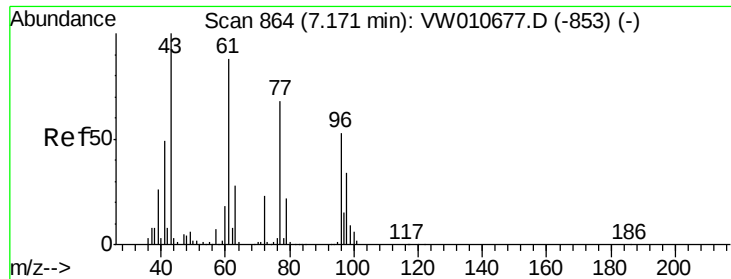
10000

0

6.10 6.20 6.30

Time-->





#25

2-Butanone

Concen: 96.330 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

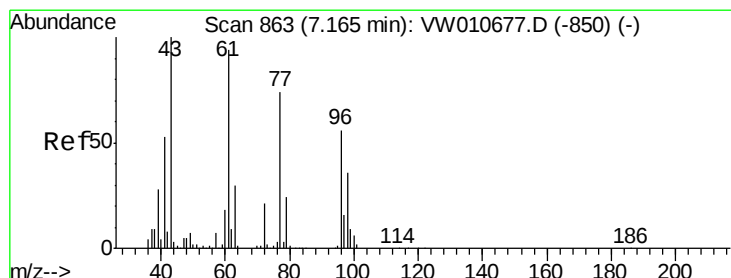
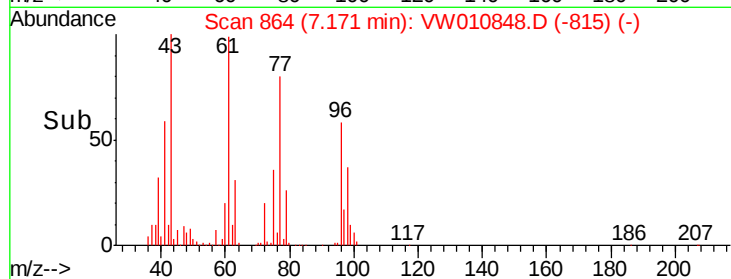
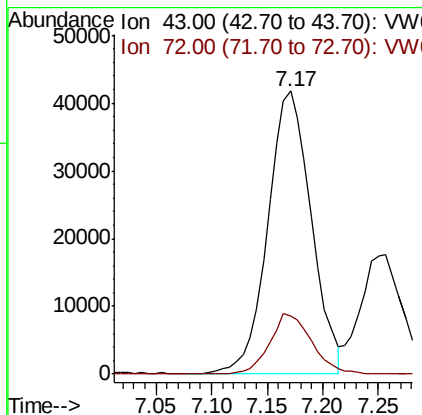
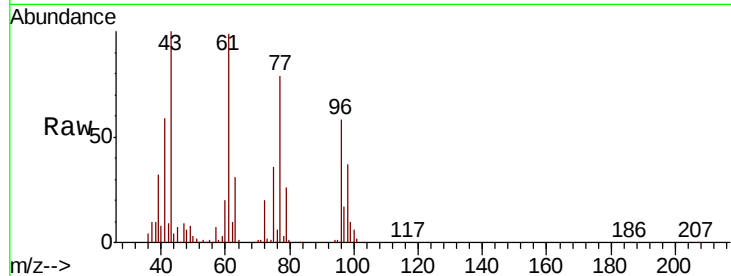
VW0619SBS01

Tot Ion: 43 Resp: 112719

Ion Ratio Lower Upper

43 100

72 20.4 18.1 27.1



#26

2,2-Dichloropropane

Concen: 22.314 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW010848.D

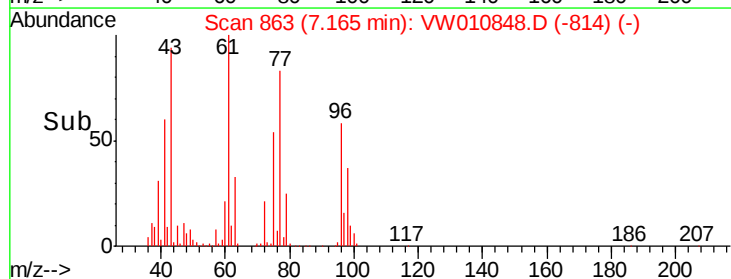
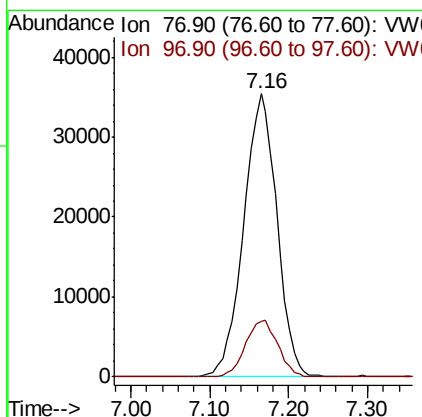
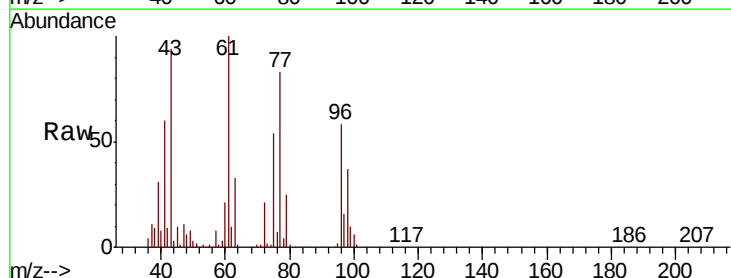
Acq: 19 Jun 2019 14:12

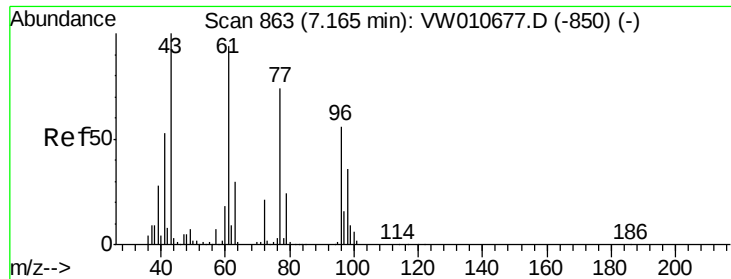
Tgt Ion: 77 Resp: 103796

Ion Ratio Lower Upper

77 100

97 19.4 10.5 31.6



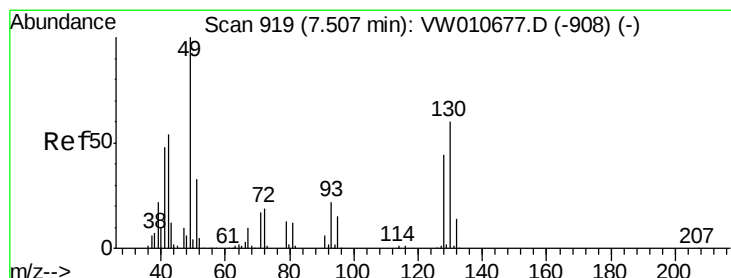
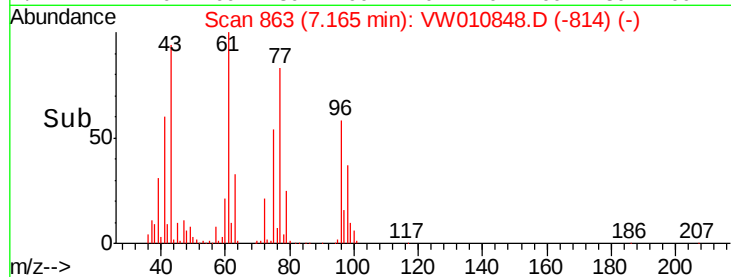
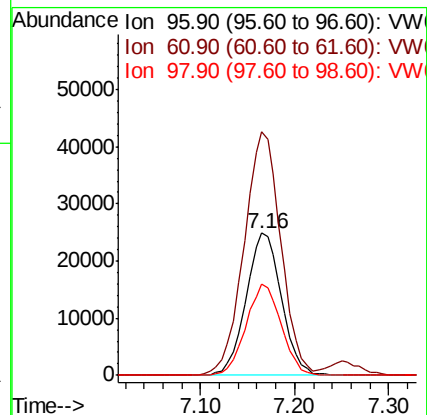
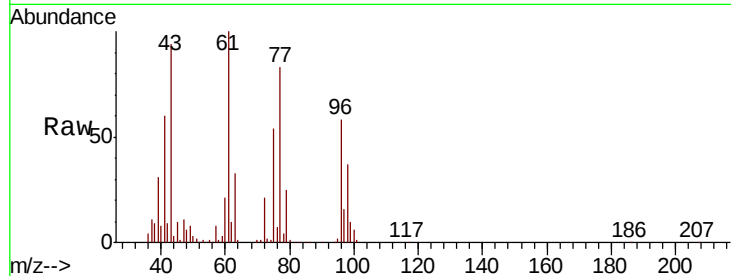


#27

cis-1,2-Dichloroethene  
Concen: 20.277 ug/l  
RT: 7.16 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

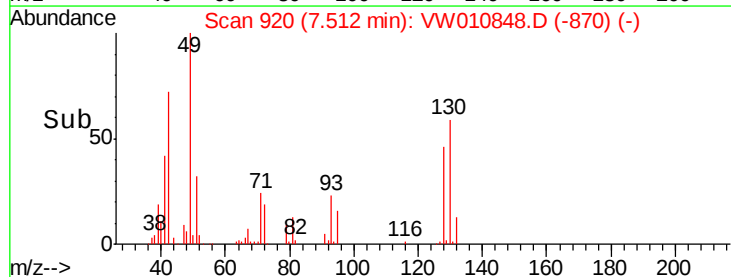
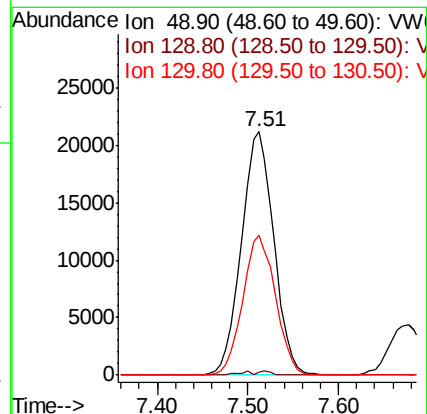
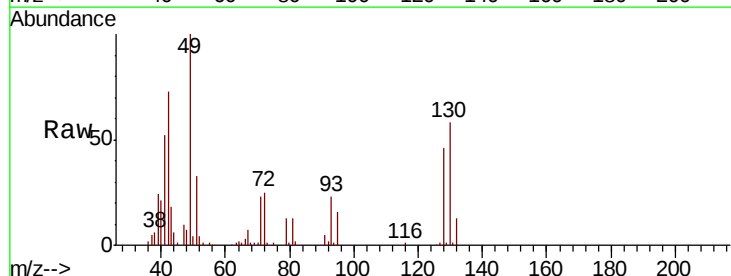
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 178.3 | 0.0   | 336.4 |
| 98      | 63.9  | 0.0   | 128.0 |

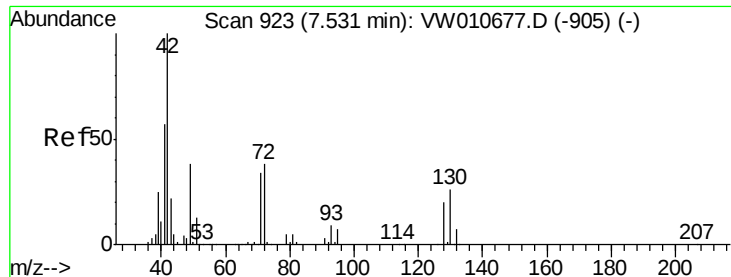


#28

Bromochloromethane  
Concen: 20.552 ug/l  
RT: 7.51 min Scan# 920  
Delta R.T. 0.01 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.6   | 0.0   | 3.2   |
| 130     | 57.9  | 48.3  | 72.5  |

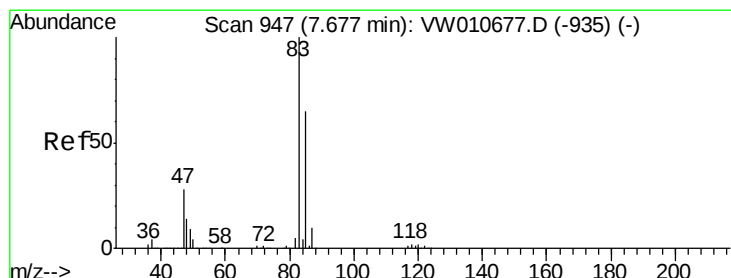
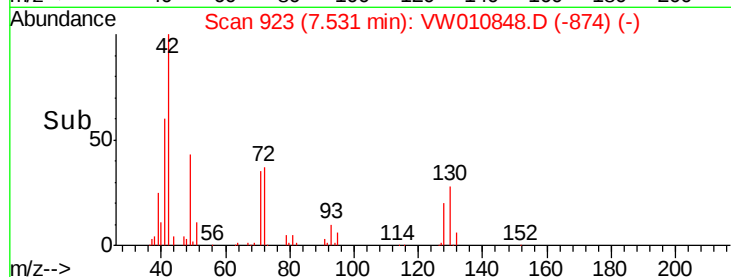
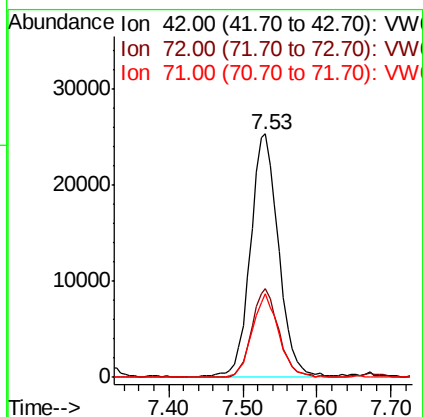
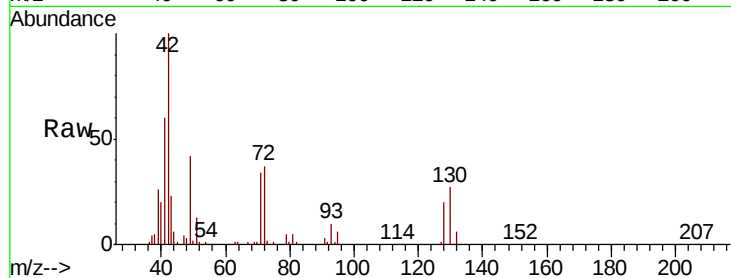




#29  
Tetrahydrofuran  
Concen: 91.689 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

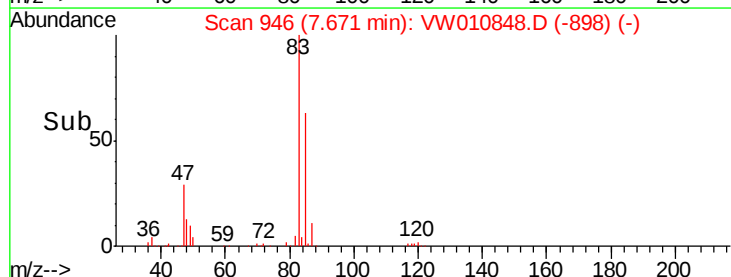
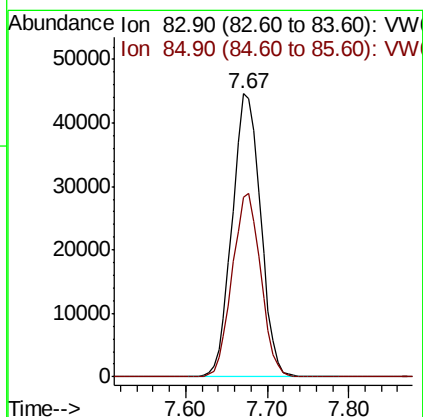
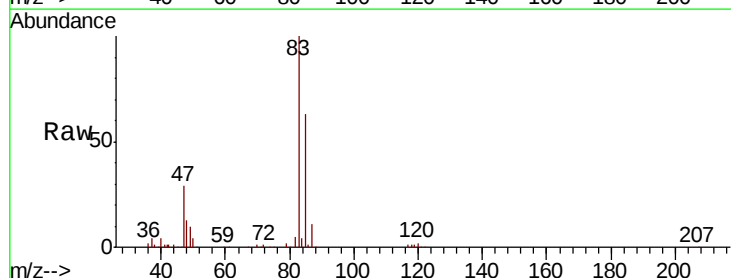
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

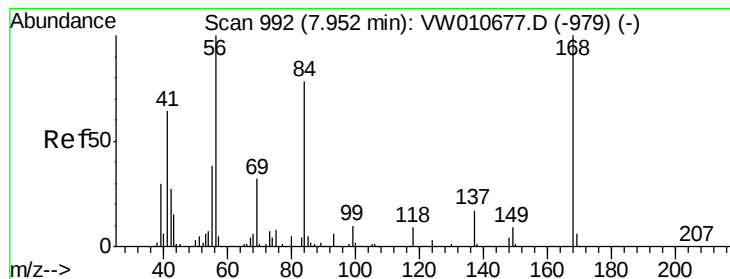
Tot Ion: 42 Resp: 67484  
Ion Ratio Lower Upper  
42 100  
72 34.9 28.7 43.1  
71 32.4 26.6 39.8



#30  
Chloroform  
Concen: 20.530 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 83 Resp: 107342  
Ion Ratio Lower Upper  
83 100  
85 63.3 51.8 77.8





#31

Cyclohexane

Concen: 19.673 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

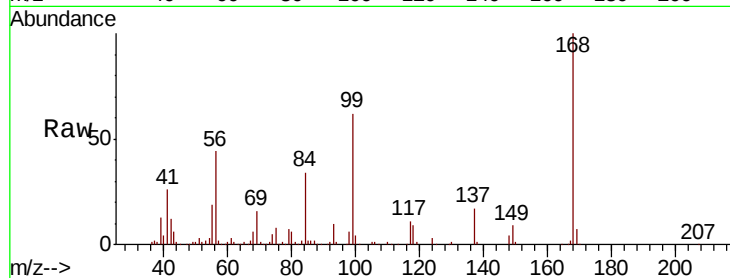
Tot Ion: 56 Resp: 125010

Ion Ratio Lower Upper

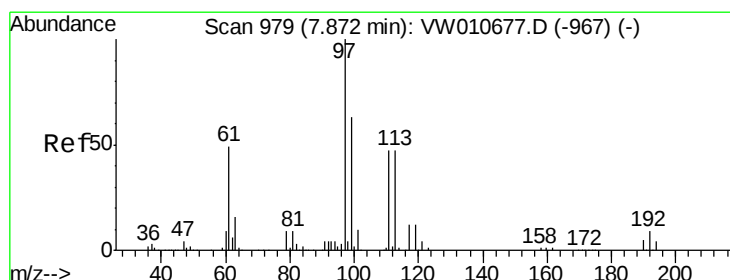
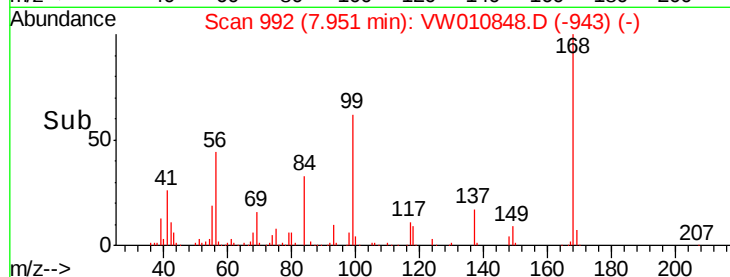
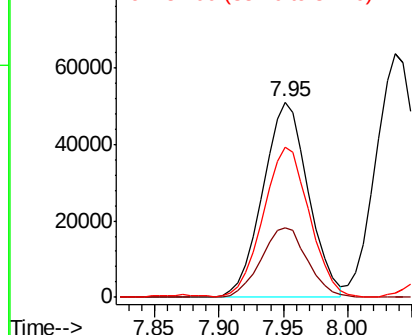
56 100

69 35.7 25.2 37.8

84 75.9 62.2 93.2



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: 20.527 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

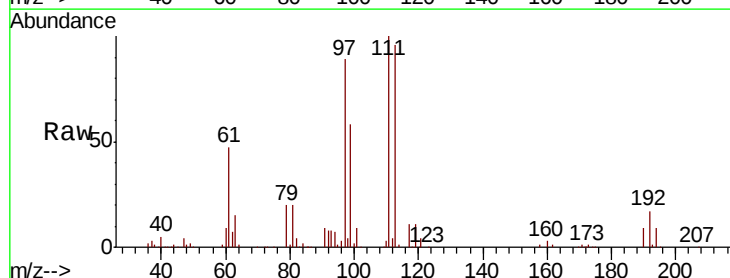
Tgt Ion: 97 Resp: 93754

Ion Ratio Lower Upper

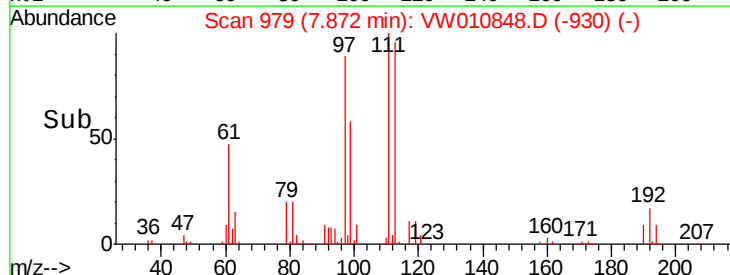
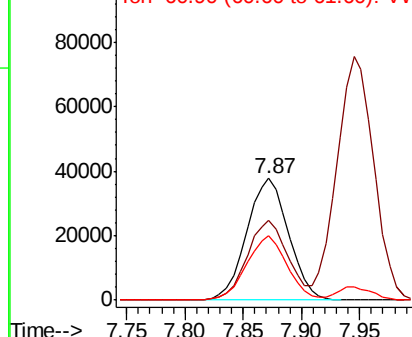
97 100

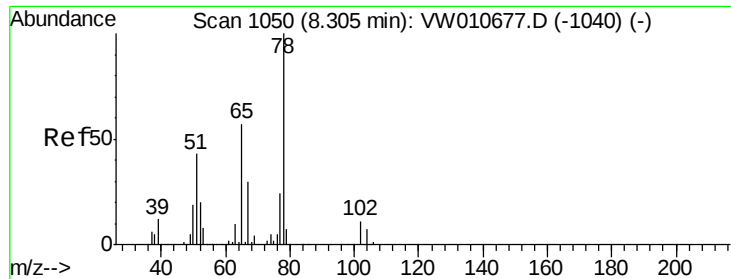
99 65.1 51.3 76.9

61 51.5 40.4 60.6



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

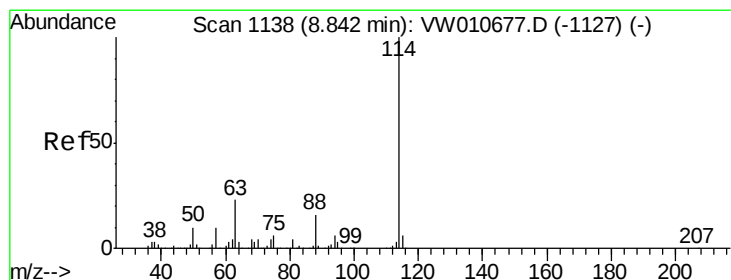
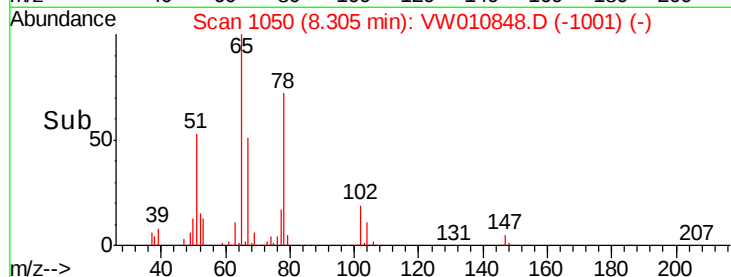
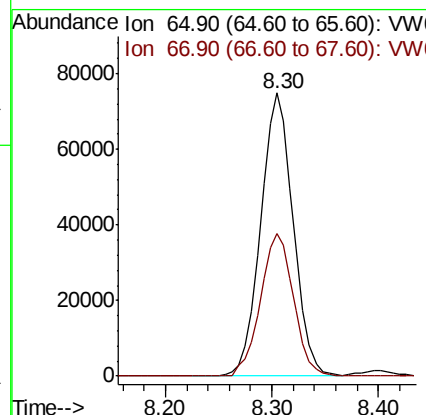
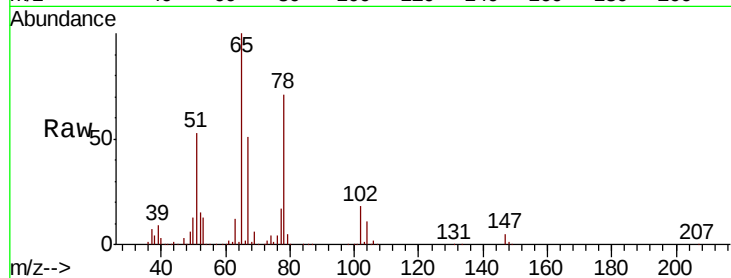




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.641 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

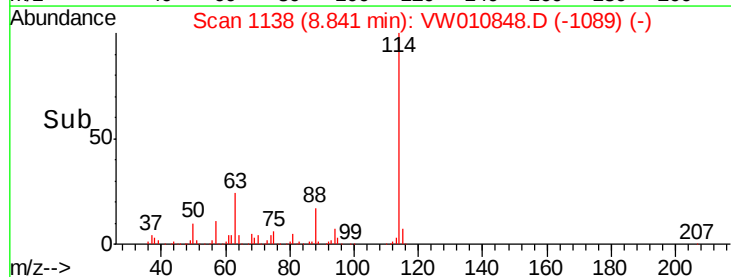
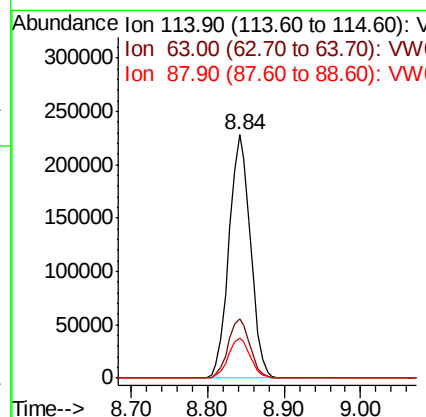
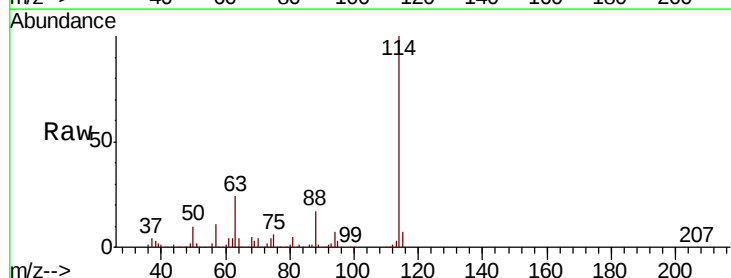
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

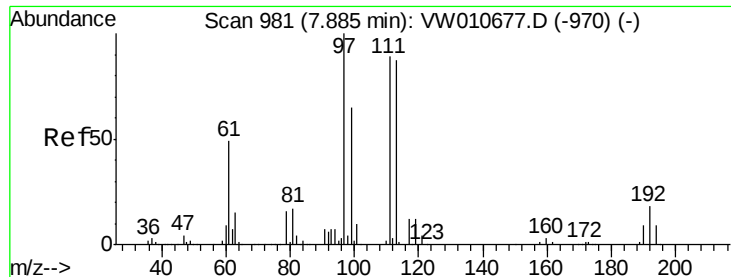
Tot Ion: 65 Resp: 159486  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Tgt Ion: 114 Resp: 441308  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 0.0 46.4  
 88 16.7 0.0 32.2

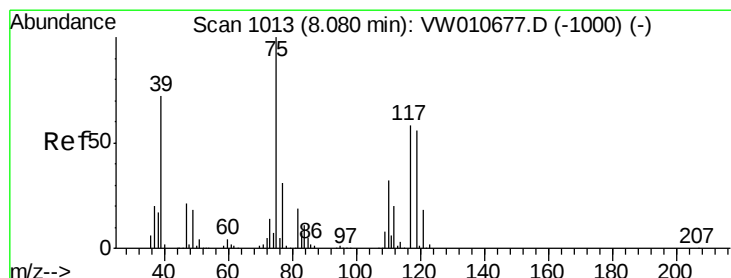
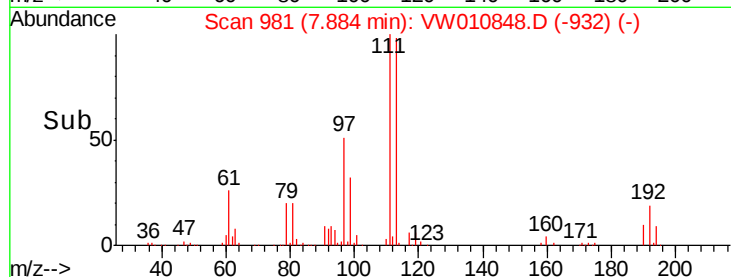
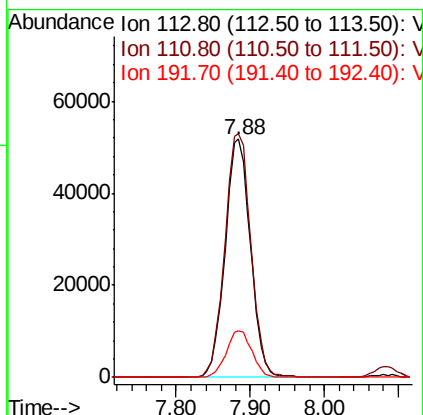
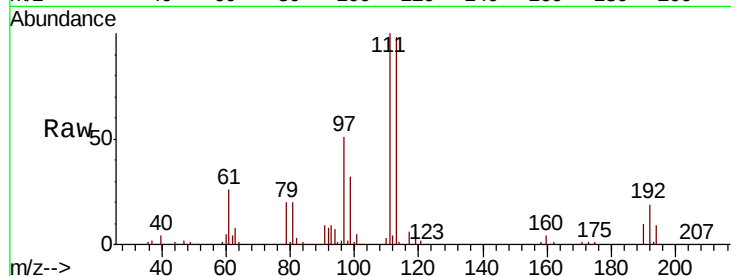




#35  
 Dibromofluoromethane  
 Concen: 51.409 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

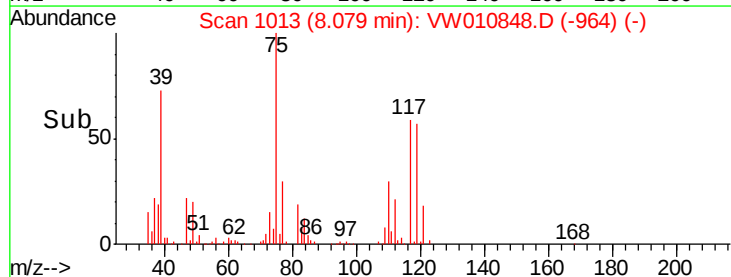
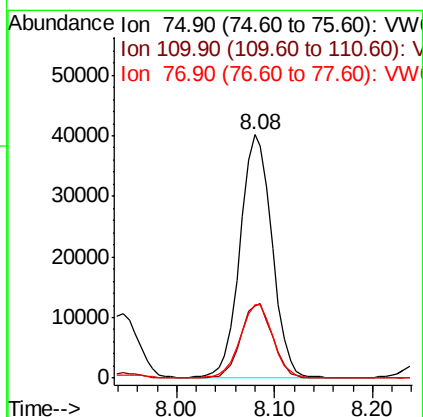
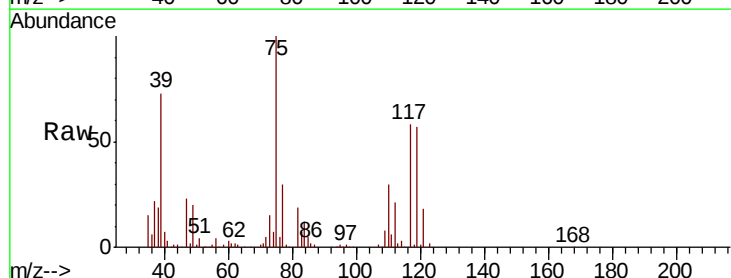
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.0 | 82.6  | 123.8 |
| 192     | 19.8  | 16.4  | 24.6  |



#36  
 1,1-Dichloropropene  
 Concen: 20.035 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 30.7  | 15.8  | 47.3  |
| 77      | 31.3  | 24.7  | 37.1  |

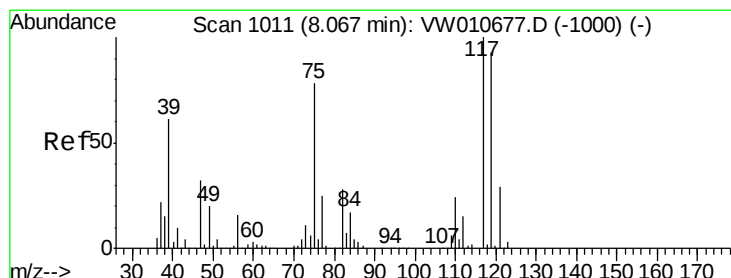
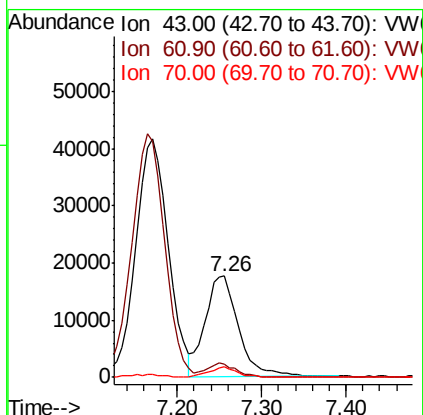
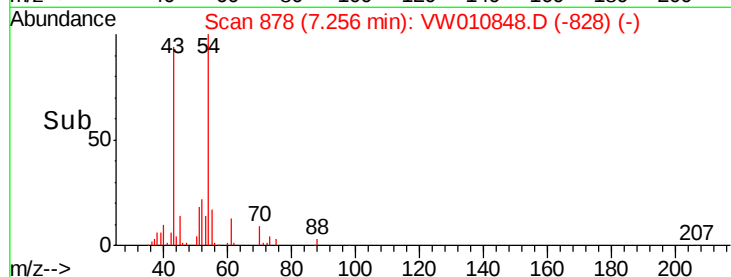
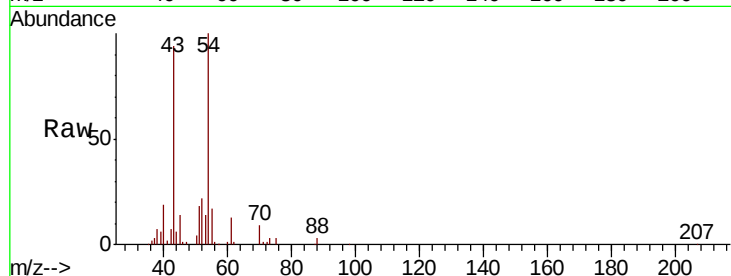




#37  
Ethyl Acetate  
Concen: 19.256 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. 0.01 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

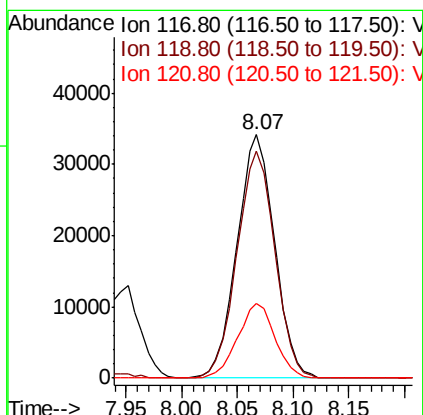
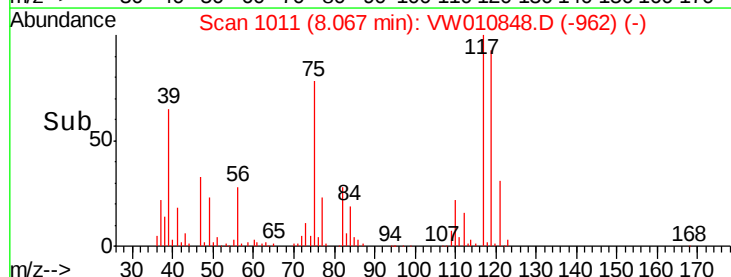
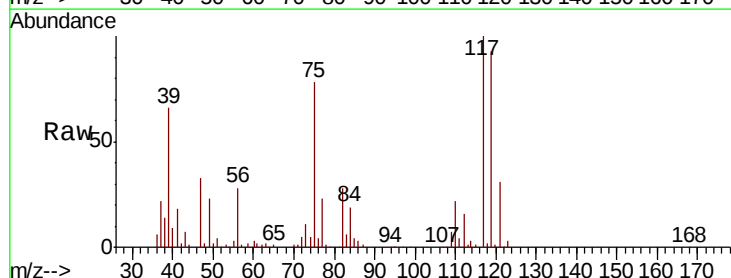
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0619SBS01

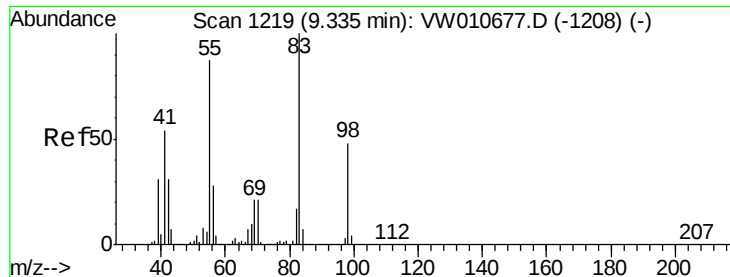
Tot Ion: 43 Resp: 48201  
Ion Ratio Lower Upper  
43 100  
61 12.1 9.7 14.5  
70 8.9 7.2 10.8



#38  
Carbon Tetrachloride  
Concen: 20.513 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 117 Resp: 79993  
Ion Ratio Lower Upper  
117 100  
119 93.4 74.2 111.4  
121 30.9 22.9 34.3

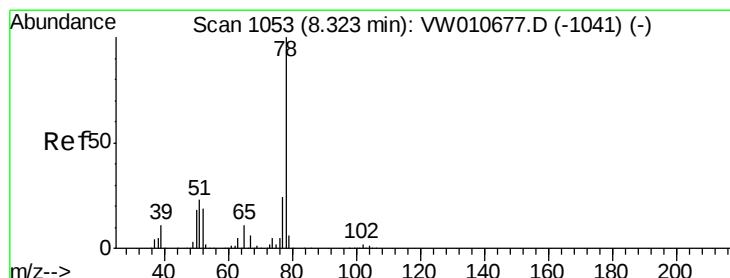
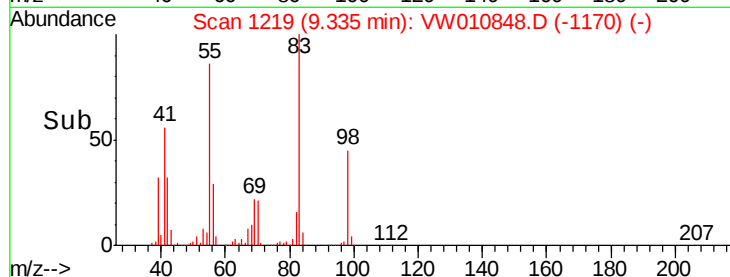
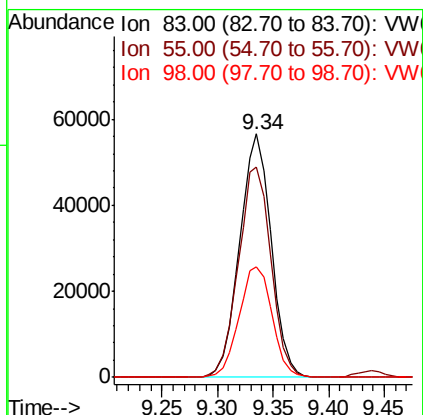
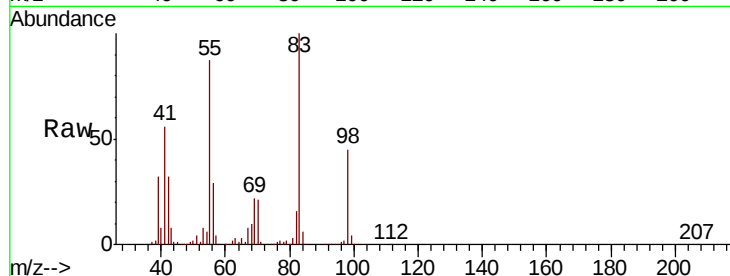




#39  
Methvlcvclohexane  
Concen: 19.381 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

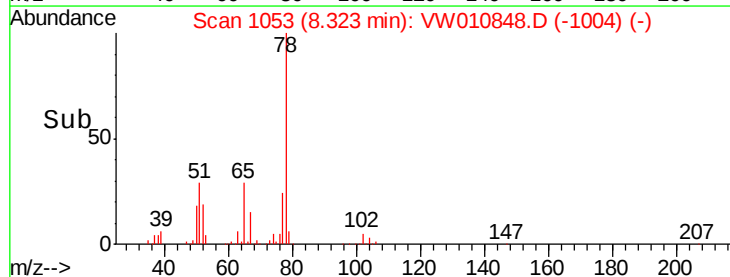
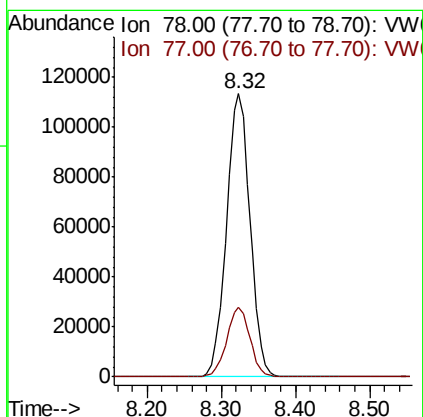
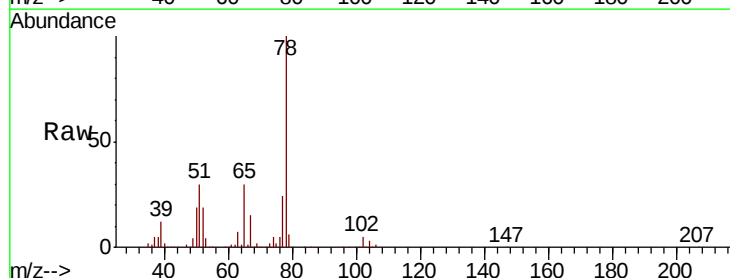
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

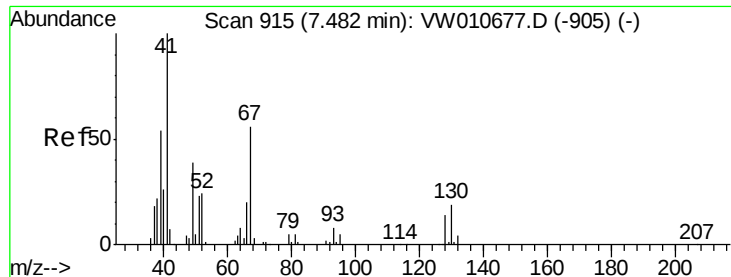
Tot Ion: 83 Resp: 111296  
Ion Ratio Lower Upper  
83 100  
55 86.6 70.0 105.0  
98 45.5 38.1 57.1



#40  
Benzene  
Concen: 20.327 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 78 Resp: 250491  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.1 28.7

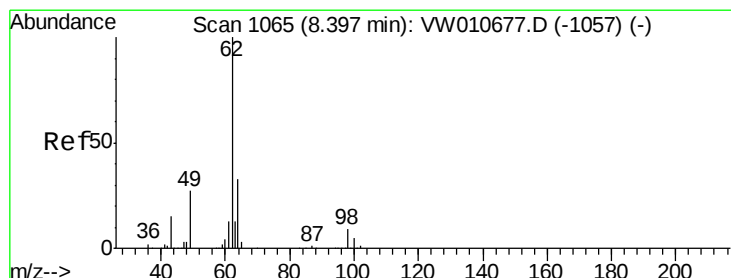
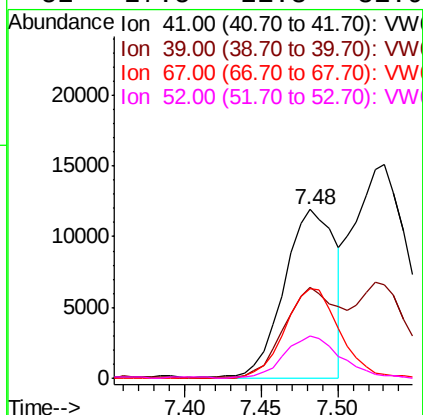
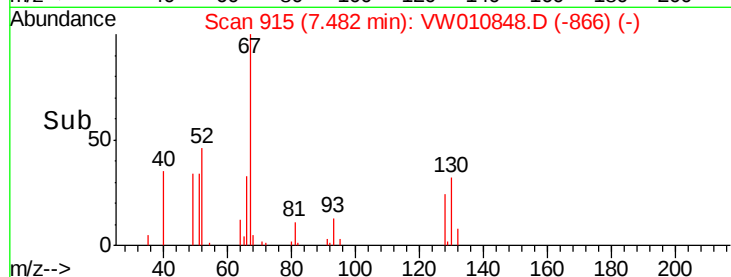
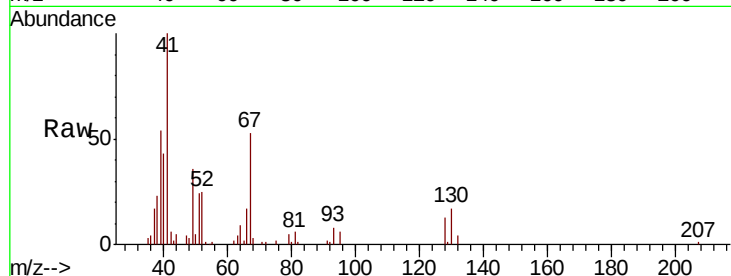




#41  
Methacrylonitrile  
Concen: 18.681 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

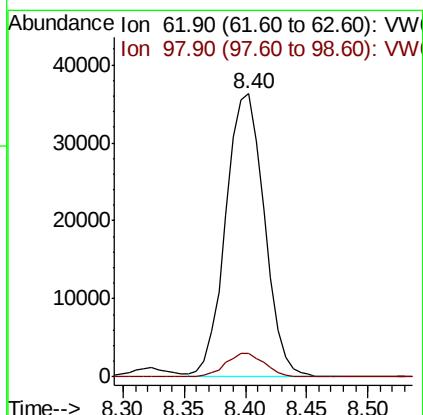
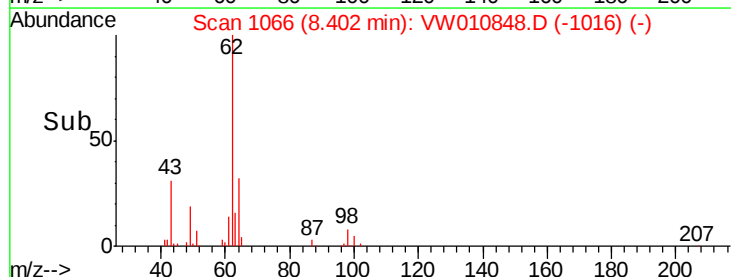
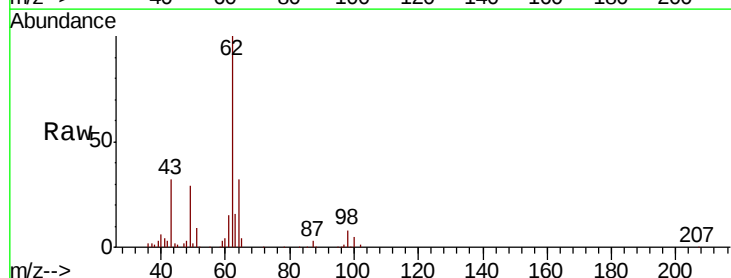
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

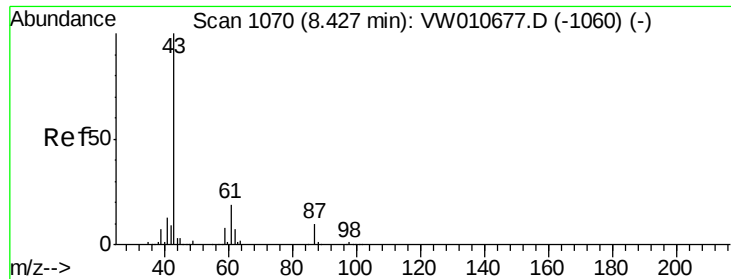
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 27796 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 59.5  | 47.3  | 70.9  |
| 67       | 56.9  | 47.2  | 70.8  |
| 52       | 27.5  | 21.3  | 31.9  |



#42  
1,2-Dichloroethane  
Concen: 20.292 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.01 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 79368 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.4   | 0.0   | 17.2  |





#43

Isopropyl Acetate

Concen: 18.501 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.01 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

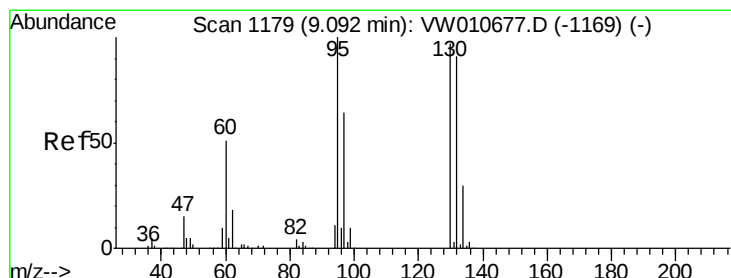
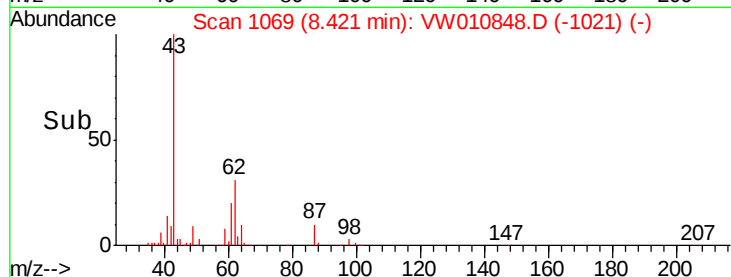
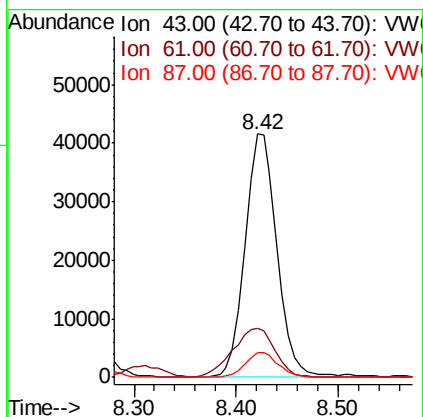
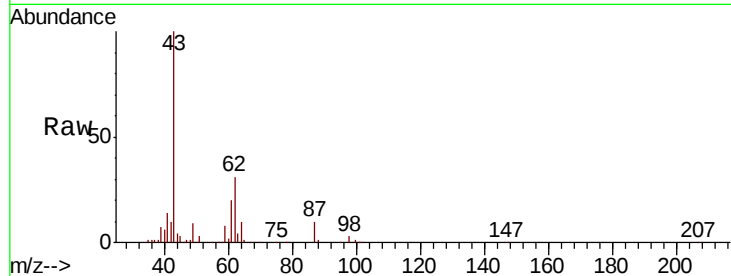
Tot Ion: 43 Resp: 89472

Ion Ratio Lower Upper

43 100

61 27.3 21.2 31.8

87 10.5 8.3 12.5



#44

Trichloroethene

Concen: 19.659 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW010848.D

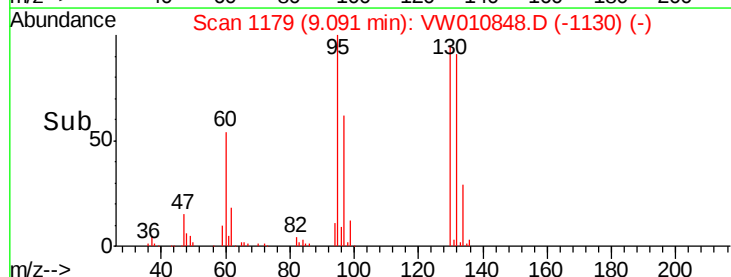
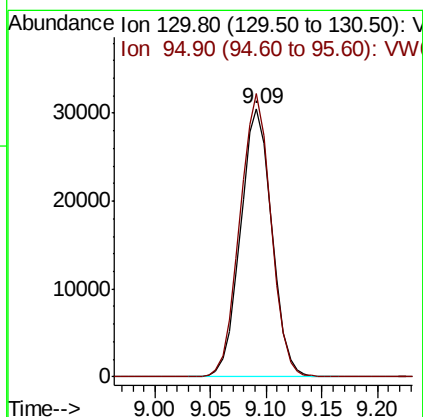
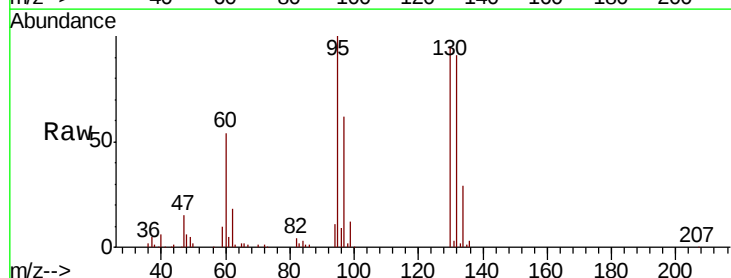
Acq: 19 Jun 2019 14:12

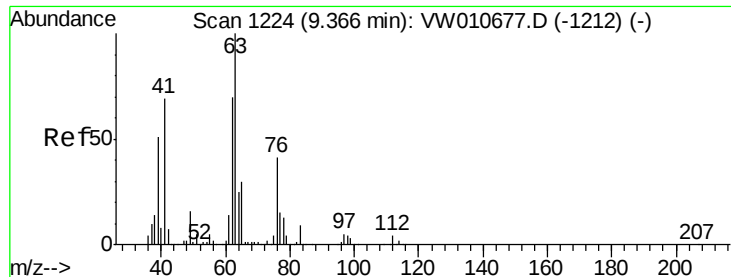
Tgt Ion: 130 Resp: 59760

Ion Ratio Lower Upper

130 100

95 105.4 0.0 207.0





#45

1,2-Dichloropropane

Concen: 20.397 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampled :

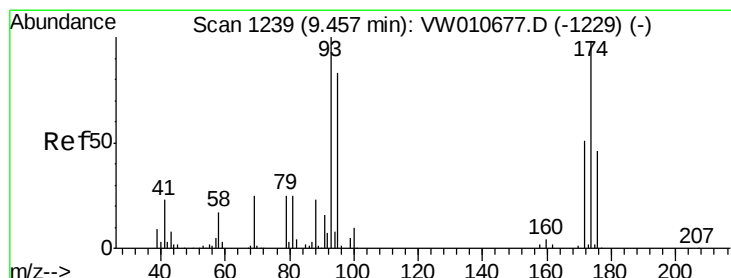
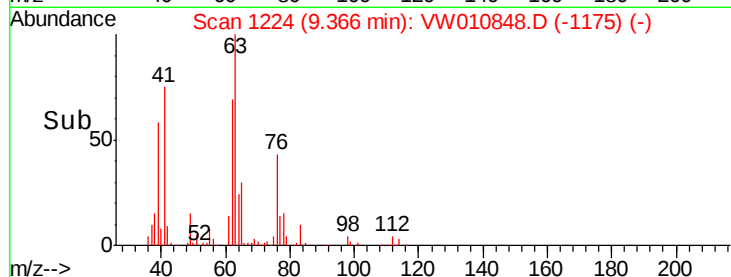
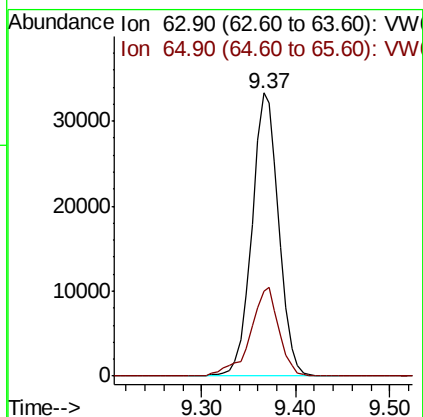
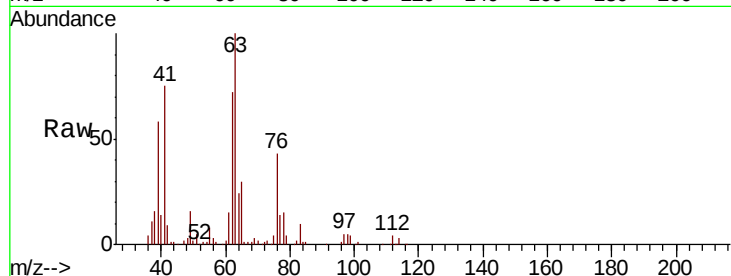
VW0619SBS01

Tot Ion: 63 Resp: 66540

Ion Ratio Lower Upper

63 100

65 30.2 23.8 35.6



#46

Dibromomethane

Concen: 19.549 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

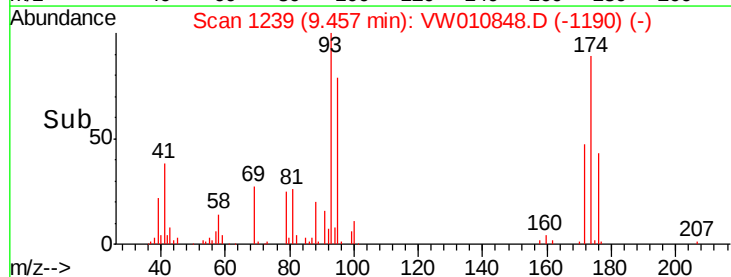
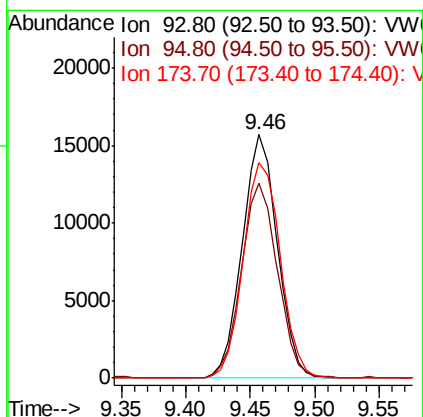
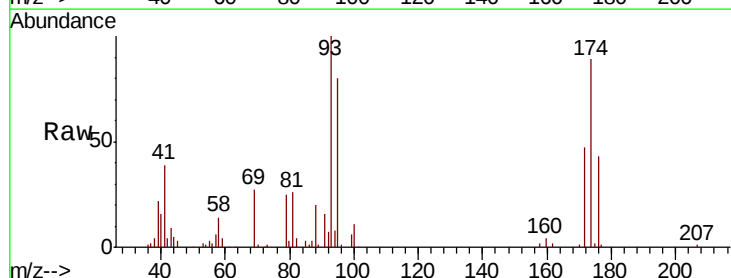
Tgt Ion: 93 Resp: 29621

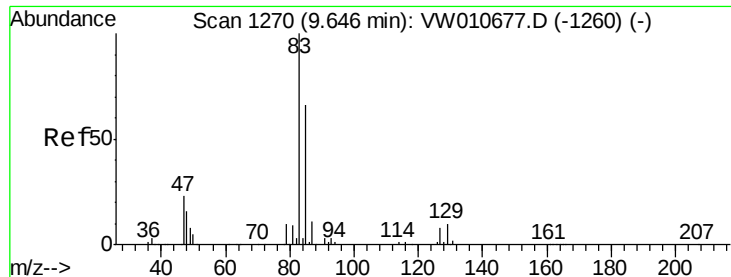
Ion Ratio Lower Upper

93 100

95 82.0 65.8 98.8

174 93.4 77.4 116.0

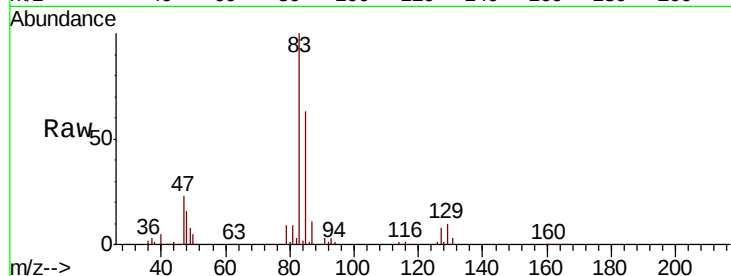




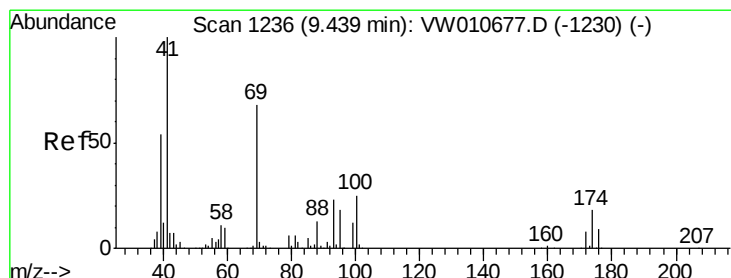
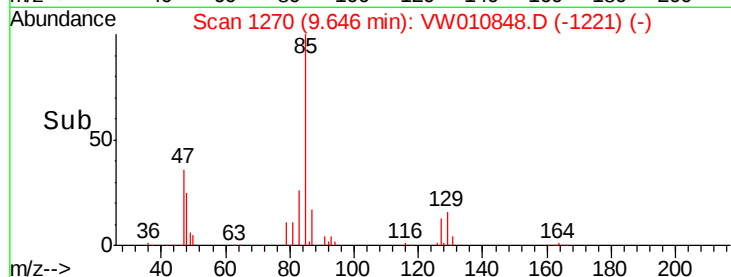
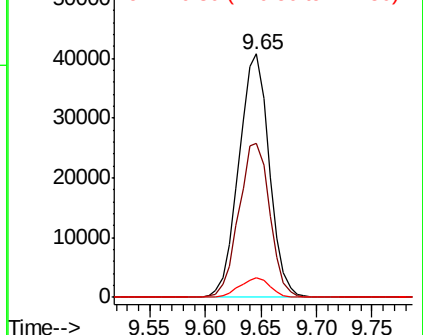
#47  
Bromodichloromethane  
Concen: 19.679 ug/l  
RT: 9.65 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

Tot Ion: 83 Resp: 77293  
Ion Ratio Lower Upper  
83 100  
85 63.3 53.0 79.4  
127 8.2 6.4 9.6

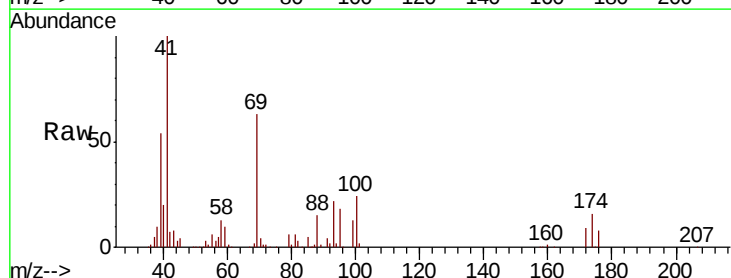


Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW  
Ion 126.80 (126.50 to 127.50): VW

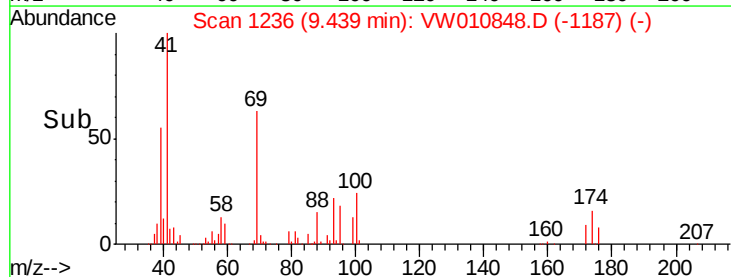
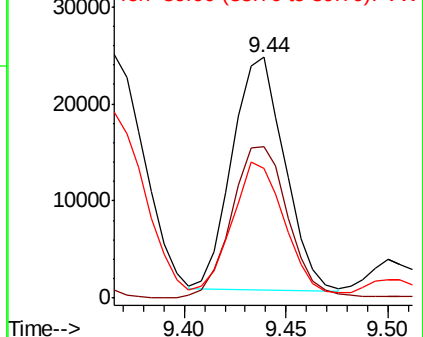


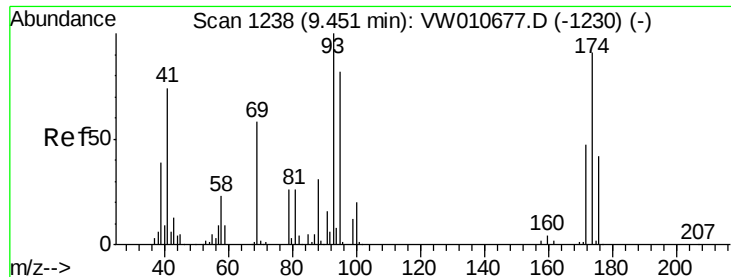
#48  
Methyl methacrylate  
Concen: 18.339 ug/l  
RT: 9.44 min Scan# 1236  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 41 Resp: 42761  
Ion Ratio Lower Upper  
41 100  
69 71.2 56.6 85.0  
39 55.4 44.4 66.6



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

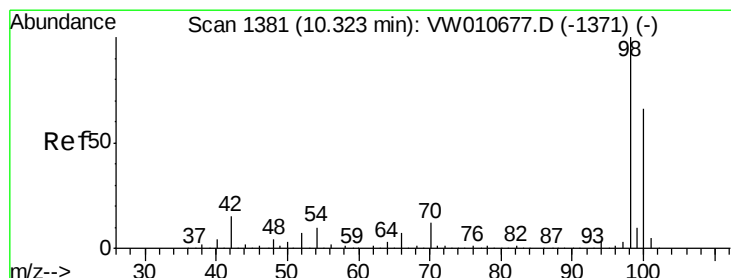
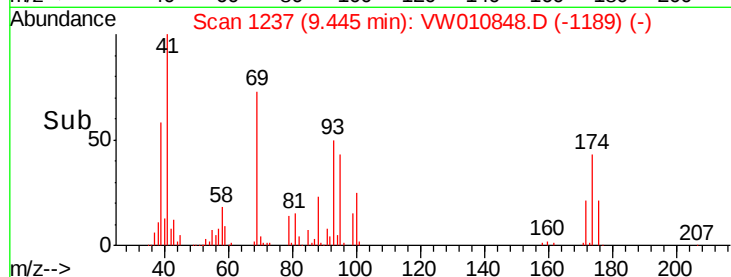
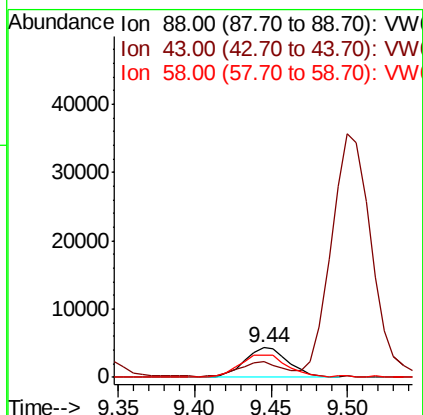
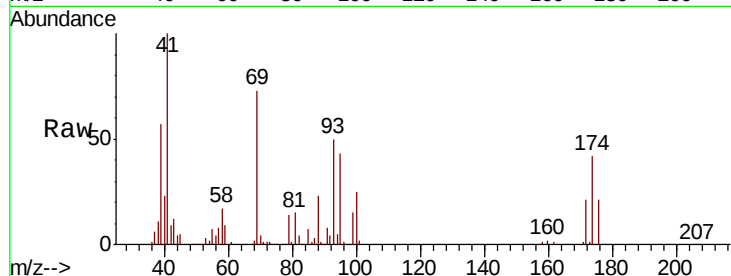




#49  
1,4-Dioxane  
Concen: 366.620 ug/l  
RT: 9.44 min Scan# 1237  
Delta R.T. -0.01 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

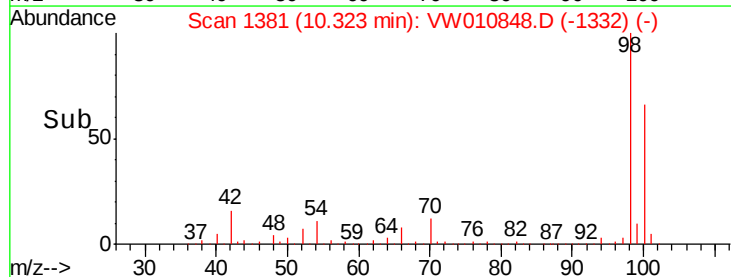
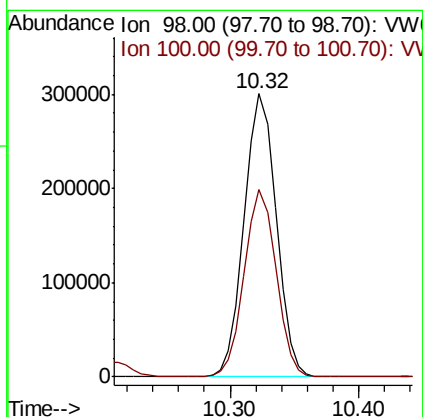
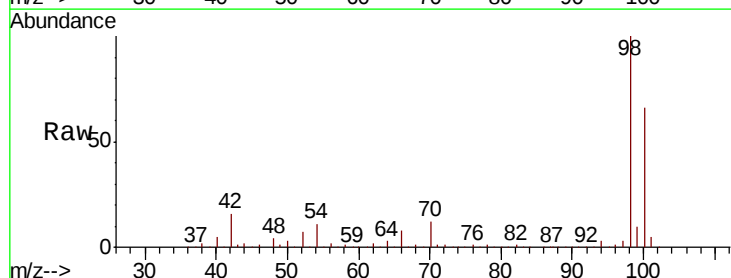
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

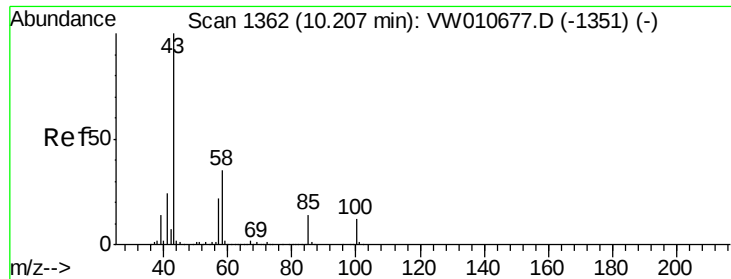
Tot Ion: 88 Resp: 8685  
Ion Ratio Lower Upper  
88 100  
43 47.3 34.2 51.4  
58 82.1 69.0 103.4



#50  
Toluene-d8  
Concen: 49.448 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 98 Resp: 519390  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 93.714 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampled :

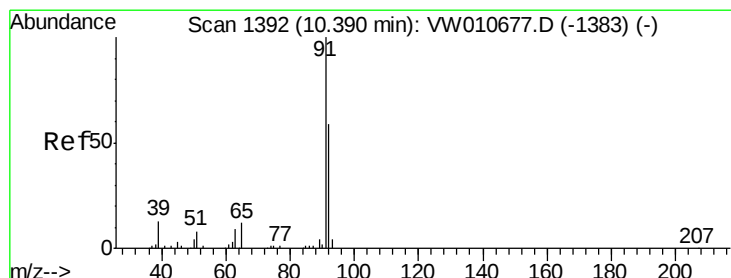
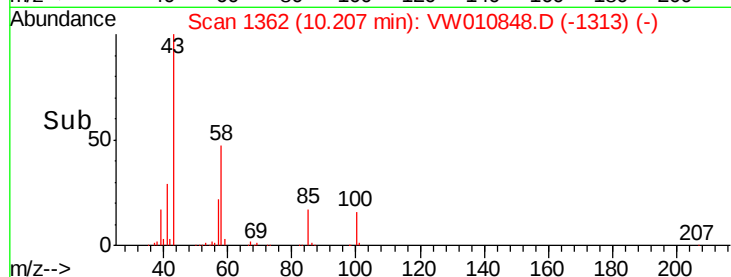
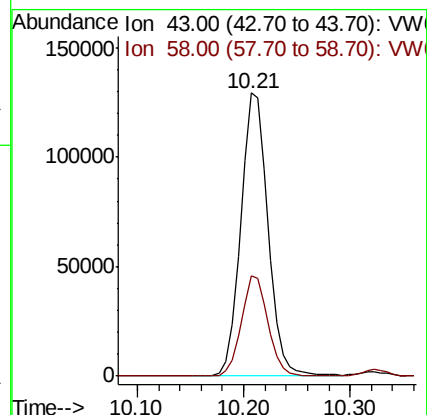
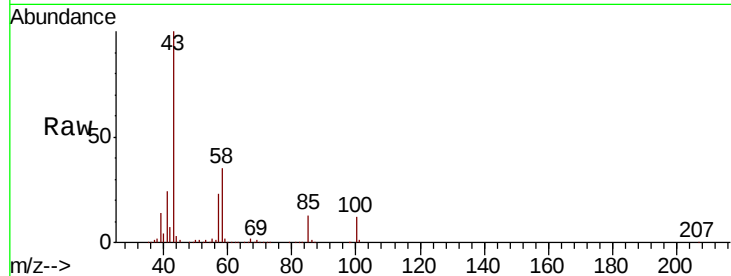
VW0619SBS01

Tot Ion: 43 Resp: 231530

Ion Ratio Lower Upper

43 100

58 34.9 28.4 42.6



#52

Toluene

Concen: 19.911 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010848.D

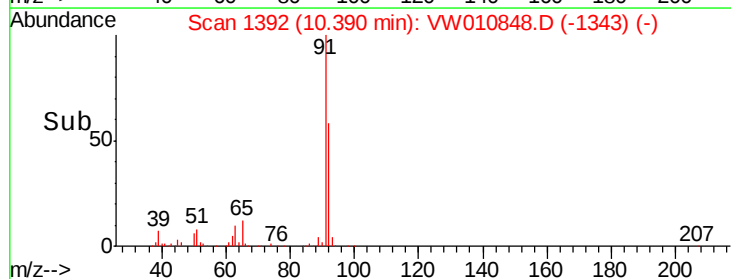
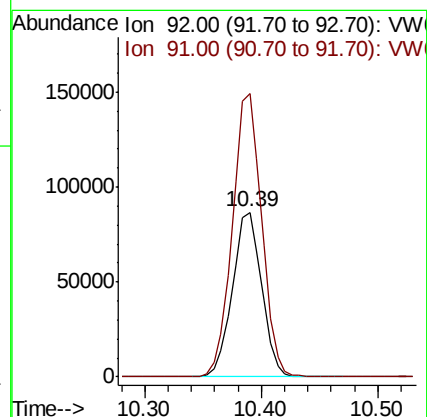
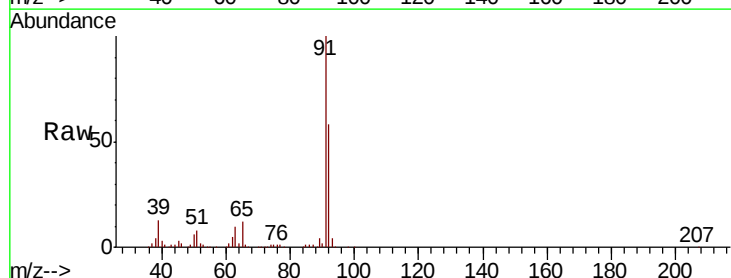
Acq: 19 Jun 2019 14:12

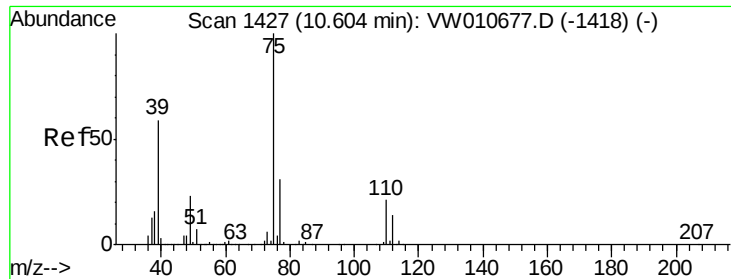
Tgt Ion: 92 Resp: 150971

Ion Ratio Lower Upper

92 100

91 172.8 134.9 202.3





#53

t-1,3-Dichloropropene

Concen: 19.071 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampled :

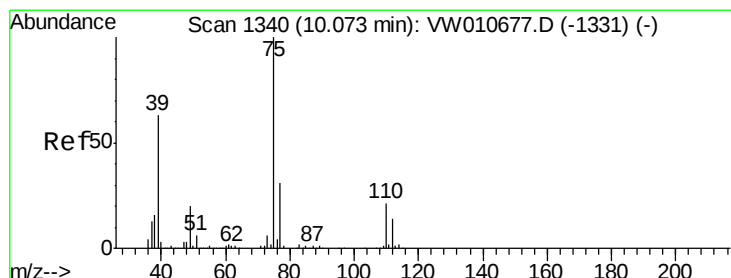
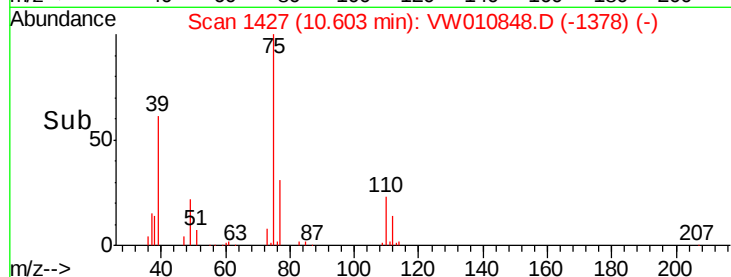
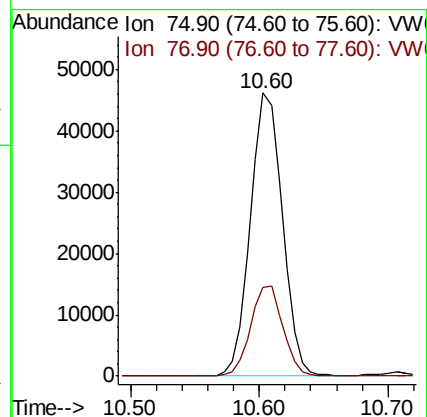
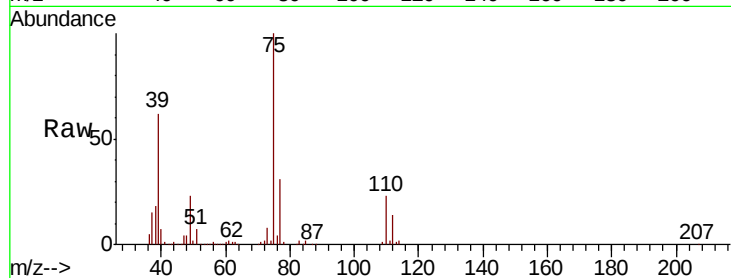
VW0619SBS01

Tot Ion: 75 Resp: 79339

Ion Ratio Lower Upper

75 100

77 31.4 24.6 36.8



#54

cis-1,3-Dichloropropene

Concen: 19.733 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

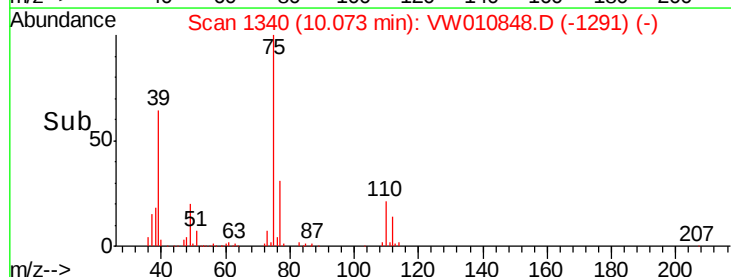
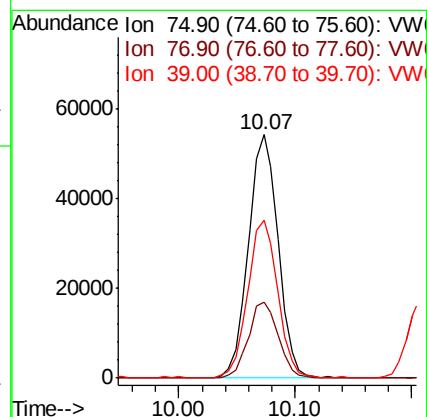
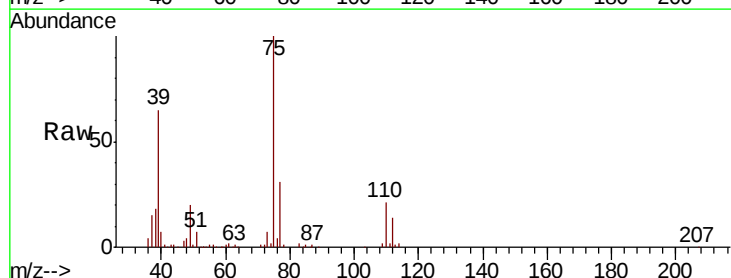
Tgt Ion: 75 Resp: 96600

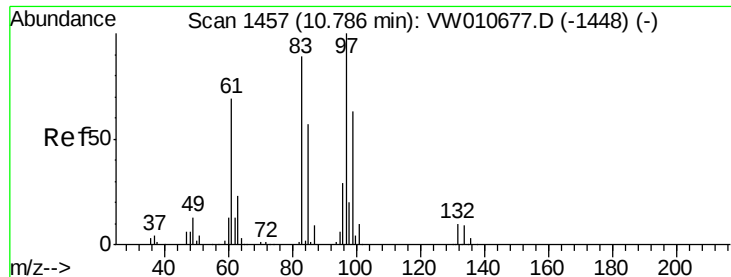
Ion Ratio Lower Upper

75 100

77 31.4 25.2 37.8

39 64.5 50.1 75.1

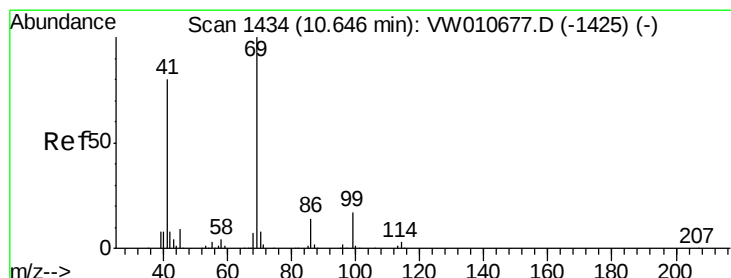
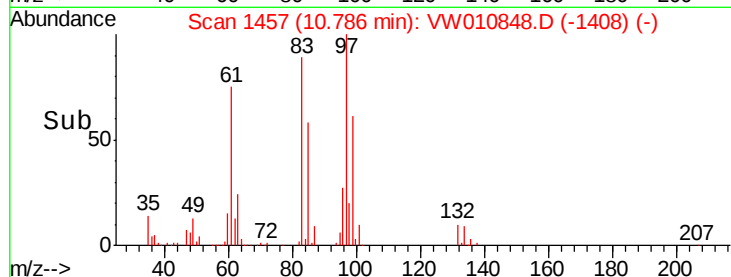
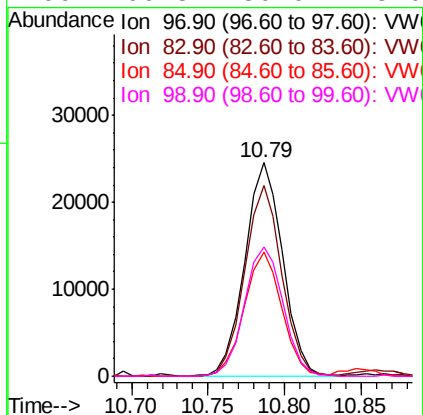
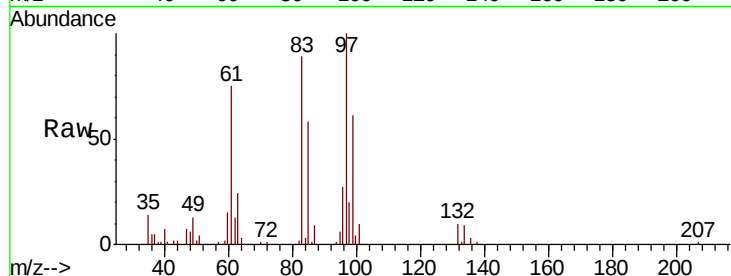




#55  
 1,1,2-Trichloroethane  
 Concen: 19.405 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

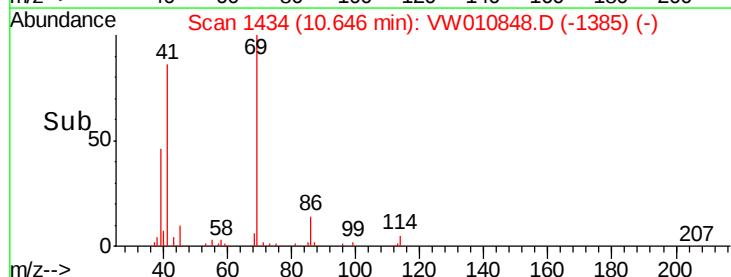
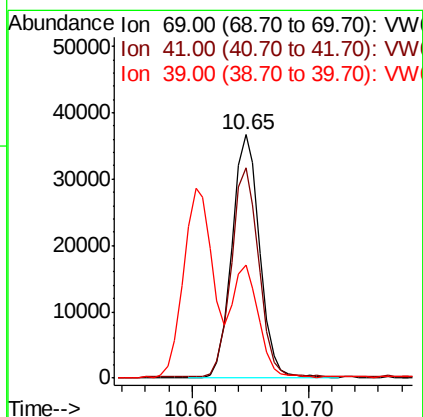
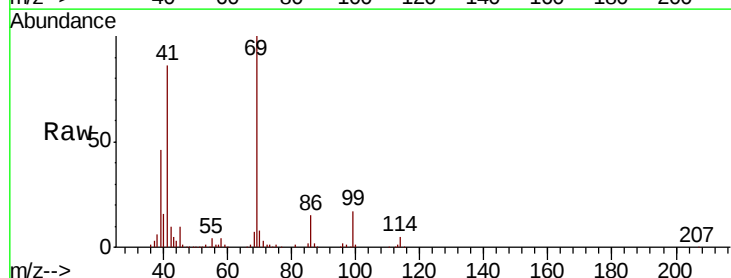
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 42356 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 89.4  | 71.1  | 106.7 |
| 85       | 58.4  | 45.2  | 67.8  |
| 99       | 60.8  | 50.0  | 75.0  |



#56  
 Ethyl methacrylate  
 Concen: 18.139 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 60923 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 84.5  | 64.8  | 97.2  |
| 39       | 42.8  | 32.2  | 48.2  |

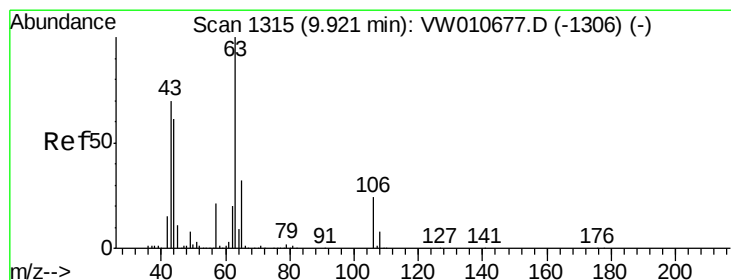
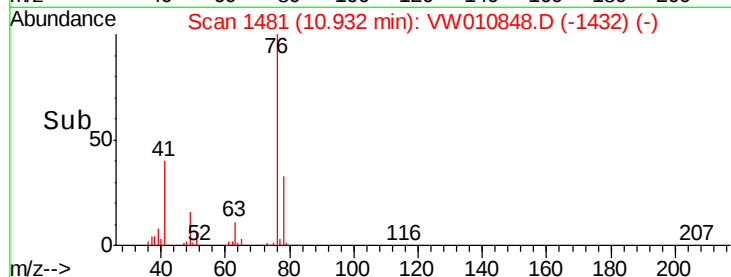
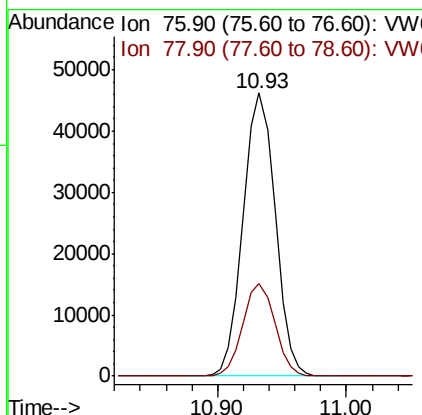
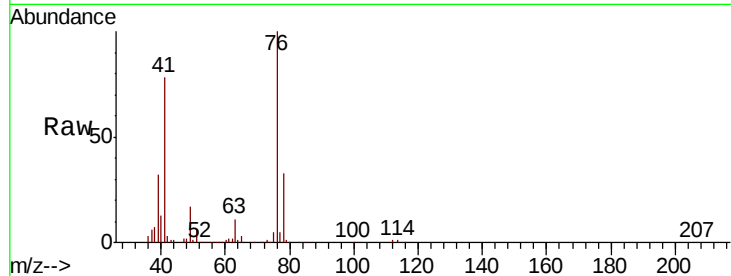




#57  
 1,3-Dichloropropane  
 Concen: 19.419 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

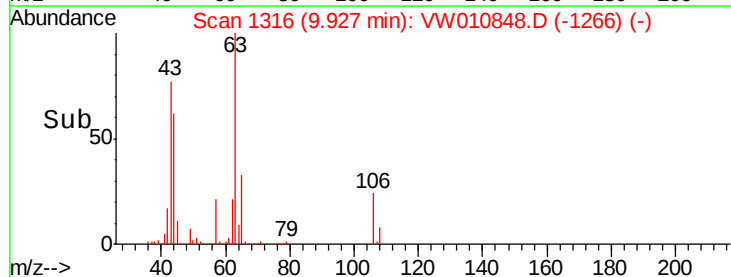
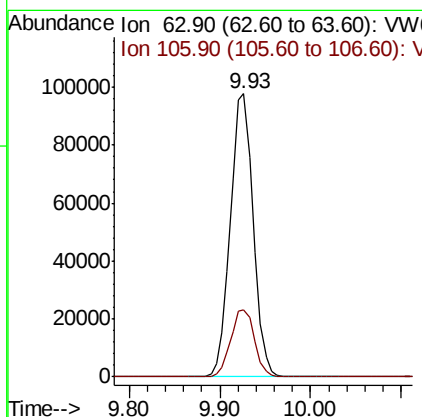
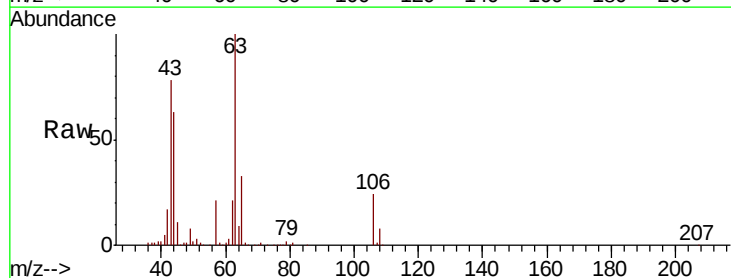
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

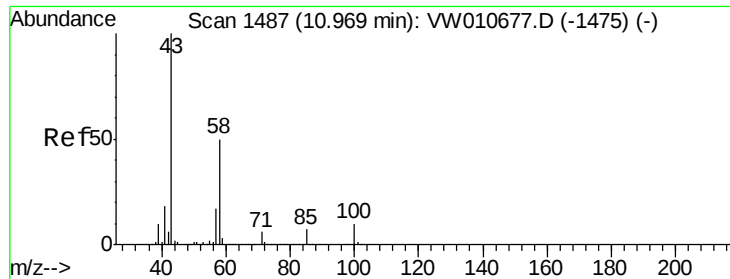
Tot Ion: 76 Resp: 79880  
 Ion Ratio Lower Upper  
 76 100  
 78 32.7 25.7 38.5



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 97.313 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. 0.01 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Tgt Ion: 63 Resp: 171197  
 Ion Ratio Lower Upper  
 63 100  
 106 24.6 20.1 30.1





#59

2-Hexanone

Concen: 90.571 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

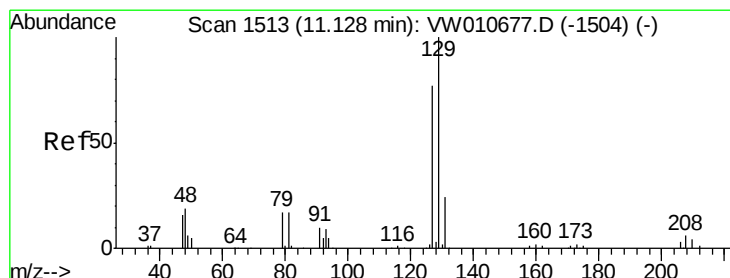
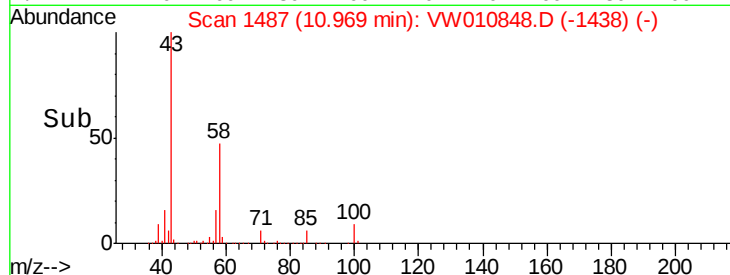
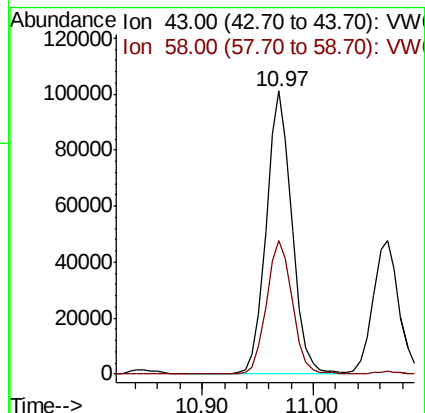
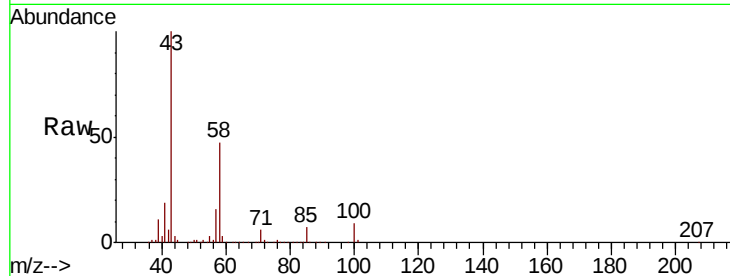
VW0619SBS01

Tot Ion: 43 Resp: 161720

Ion Ratio Lower Upper

43 100

58 47.7 24.9 74.6



#60

Dibromochloromethane

Concen: 18.665 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW010848.D

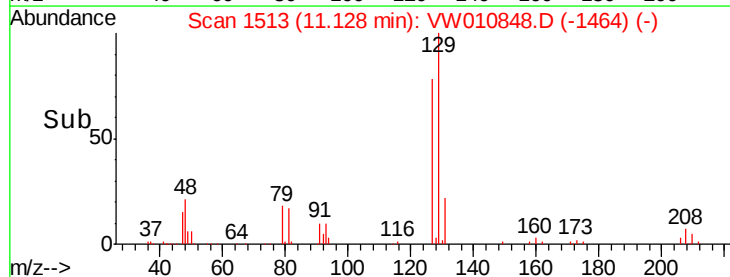
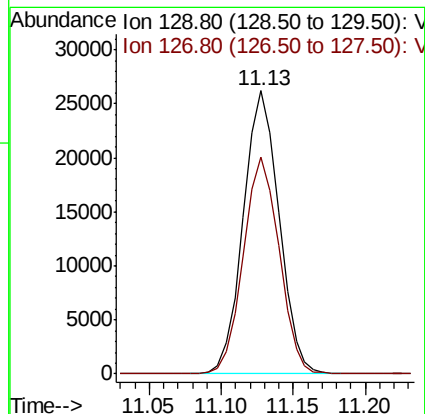
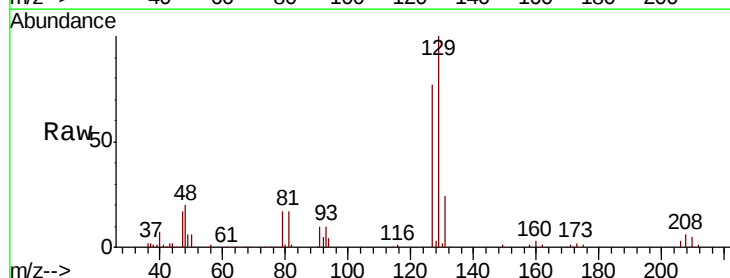
Acq: 19 Jun 2019 14:12

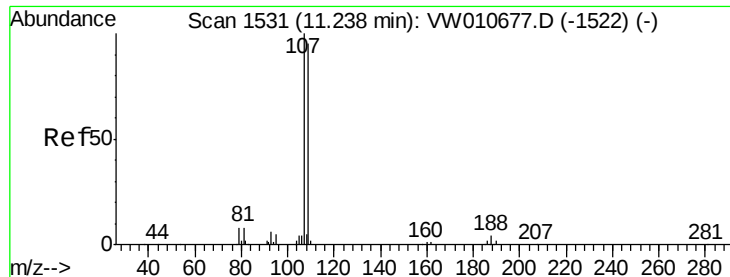
Tgt Ion: 129 Resp: 45164

Ion Ratio Lower Upper

129 100

127 76.6 38.6 116.0





#61

1,2-Dibromoethane

Concen: 18.799 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

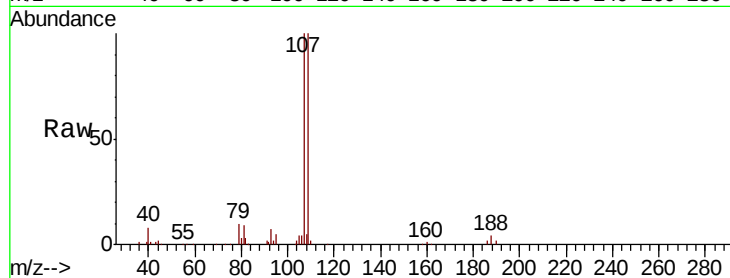
VW0619SBS01

Tot Ion:107 Resp: 38879

Ion Ratio Lower Upper

107 100

109 94.9 75.8 113.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.24

25000

20000

15000

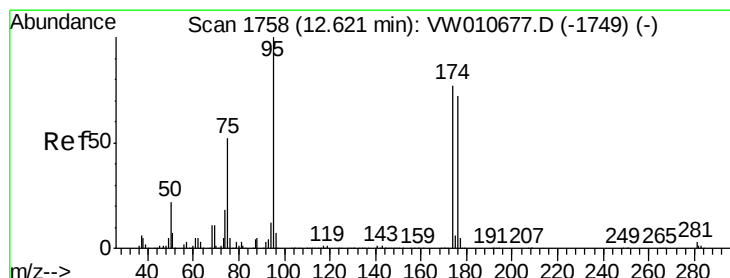
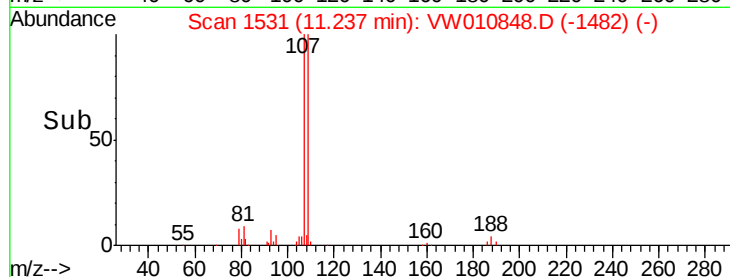
10000

5000

0

Time-->

11.15 11.20 11.25 11.30



#62

4-Bromofluorobenzene

Concen: 49.748 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

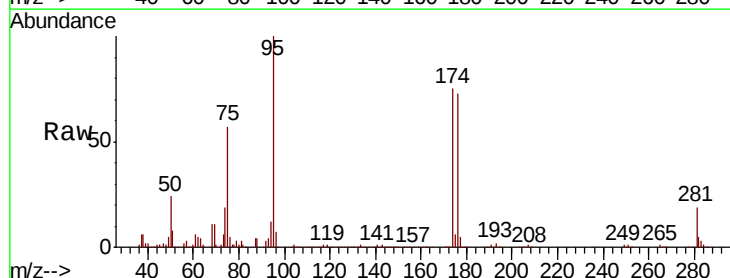
Tgt Ion: 95 Resp: 190145

Ion Ratio Lower Upper

95 100

174 73.1 0.0 150.4

176 71.1 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.62

150000

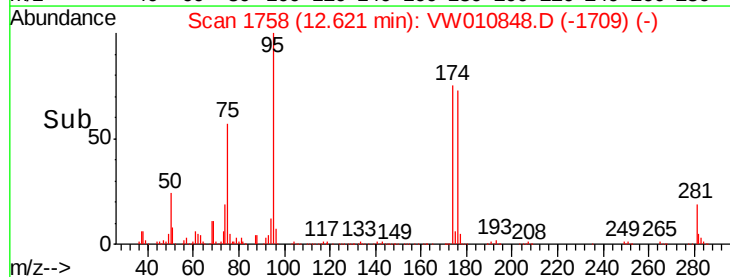
100000

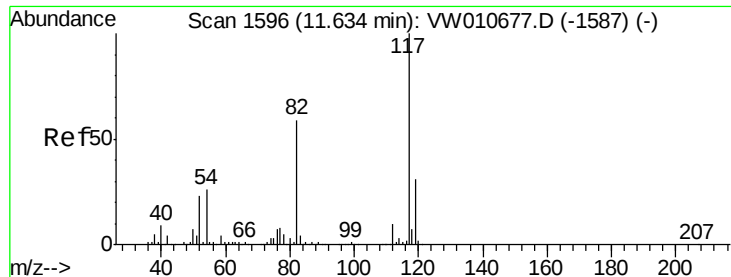
50000

0

Time-->

12.55 12.60 12.65 12.70

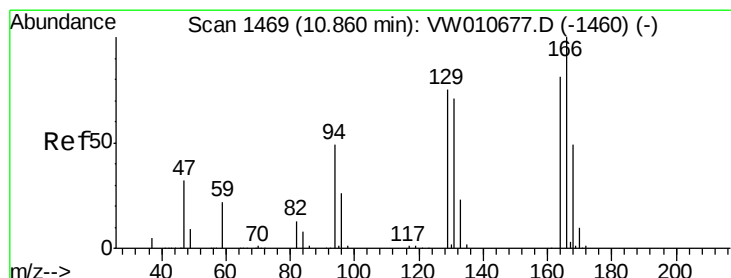
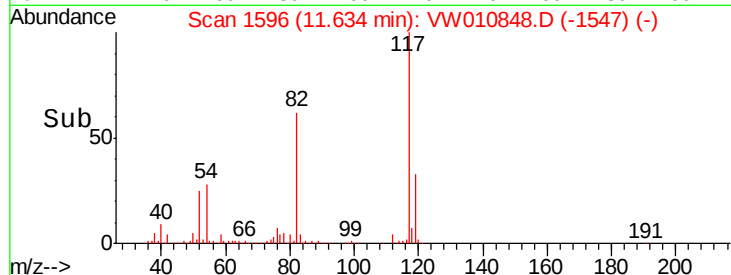
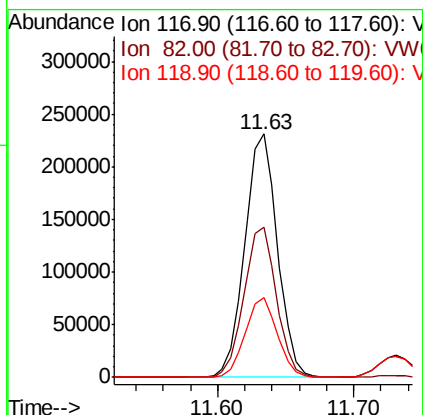
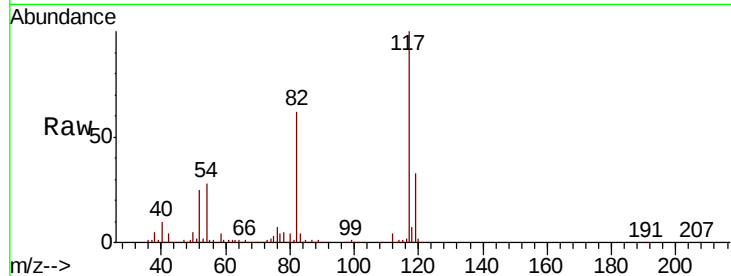




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

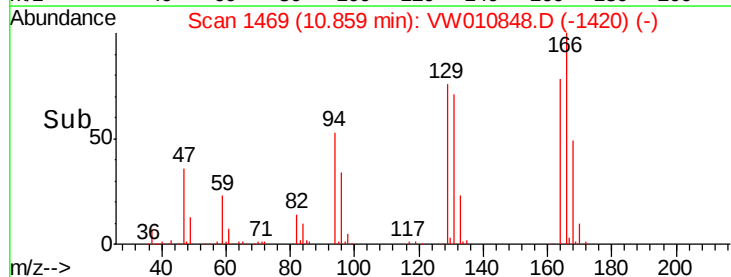
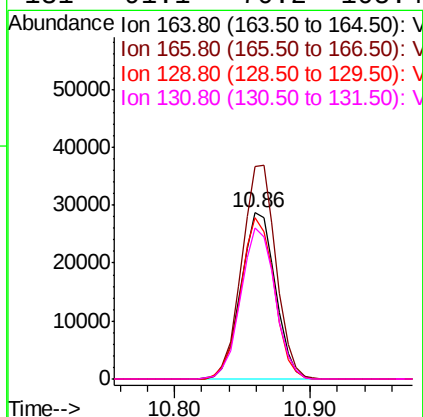
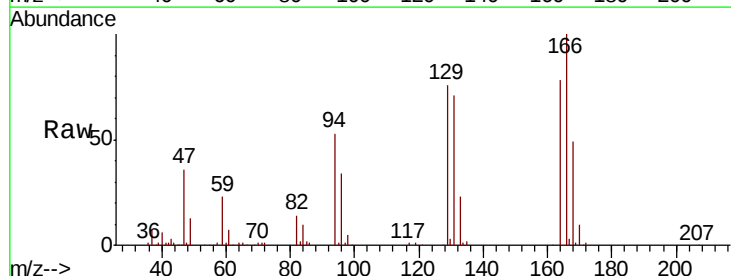
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

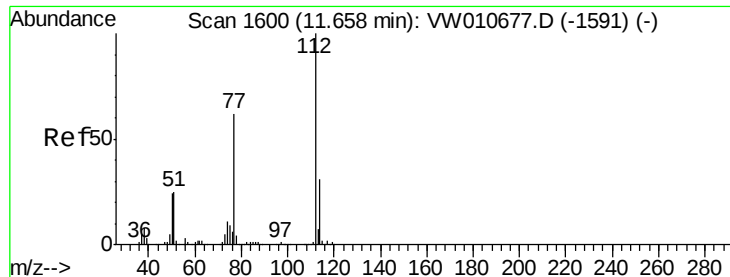
Tot Ion:117 Resp: 388162  
Ion Ratio Lower Upper  
117 100  
82 61.9 47.0 70.4  
119 32.8 25.1 37.7



#64  
Tetrachloroethene  
Concen: 19.666 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion:164 Resp: 50683  
Ion Ratio Lower Upper  
164 100  
166 127.7 99.2 148.8  
129 96.7 74.6 112.0  
131 91.1 70.2 105.4

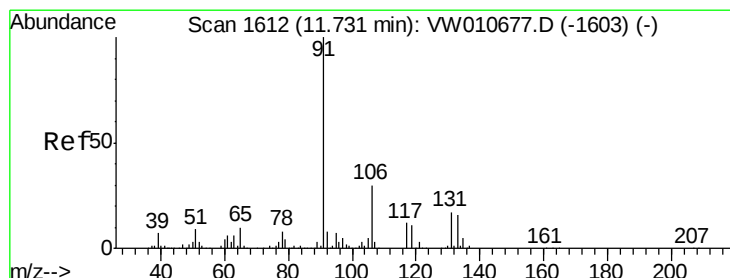
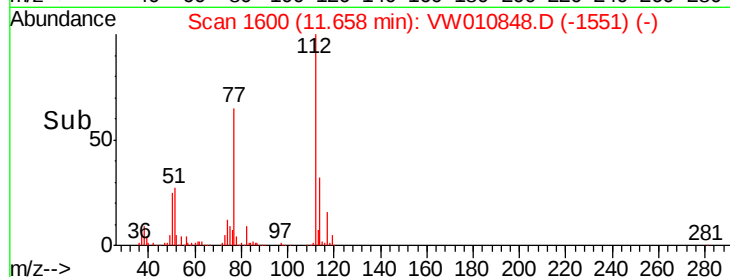
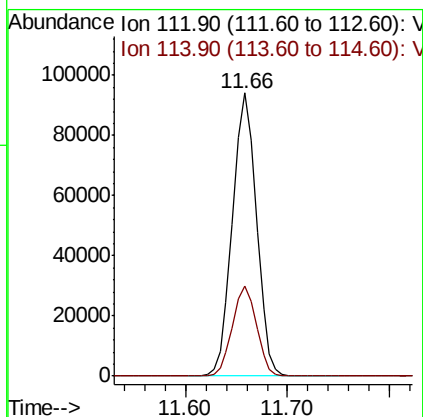
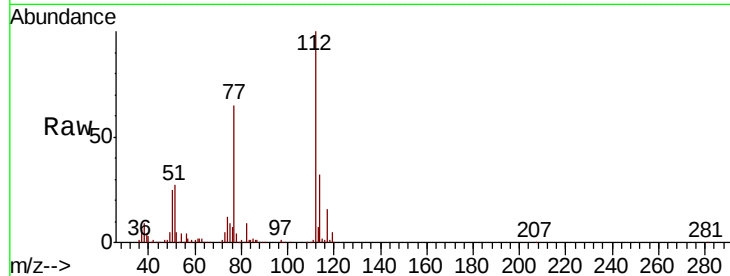




#65  
Chlorobenzene  
Concen: 20.108 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

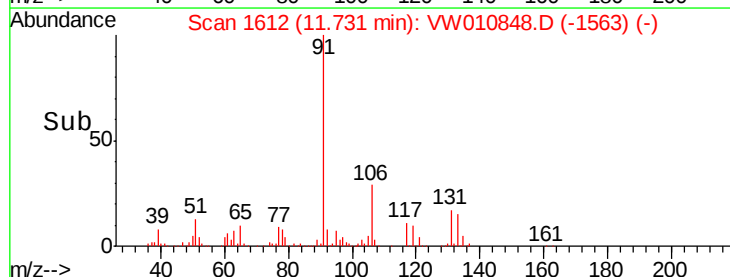
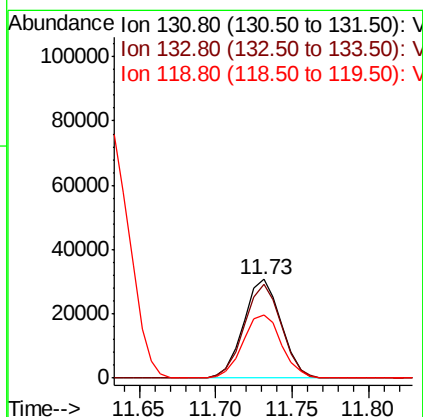
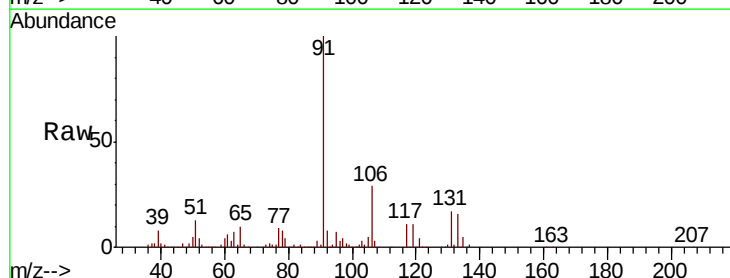
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

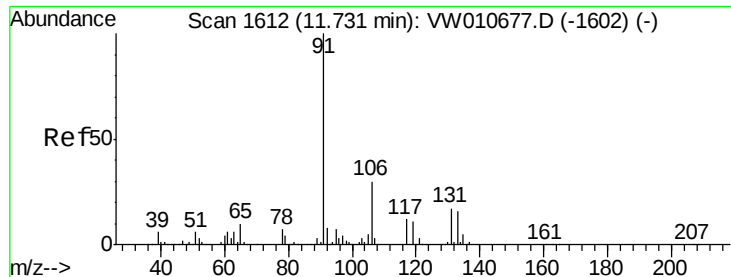
Tot Ion:112 Resp: 153491  
Ion Ratio Lower Upper  
112 100  
114 32.0 24.8 37.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 19.831 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion:131 Resp: 52400  
Ion Ratio Lower Upper  
131 100  
133 94.6 47.3 141.9  
119 65.8 32.4 97.0

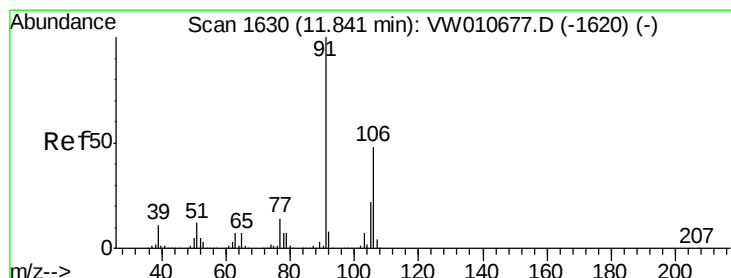
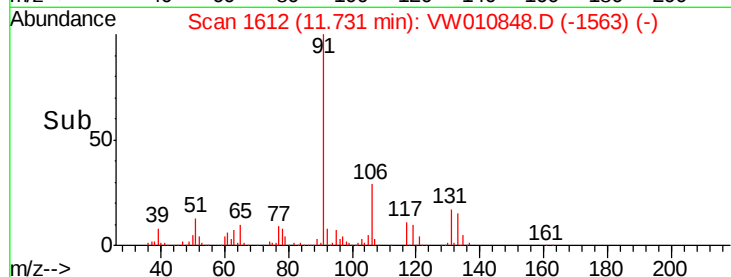
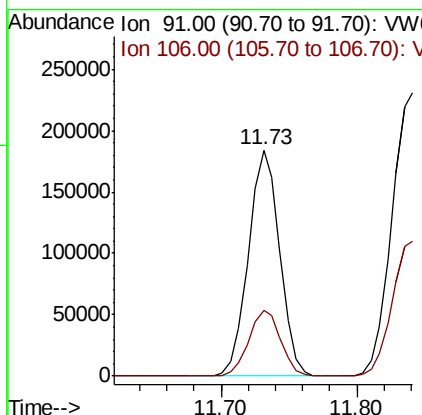
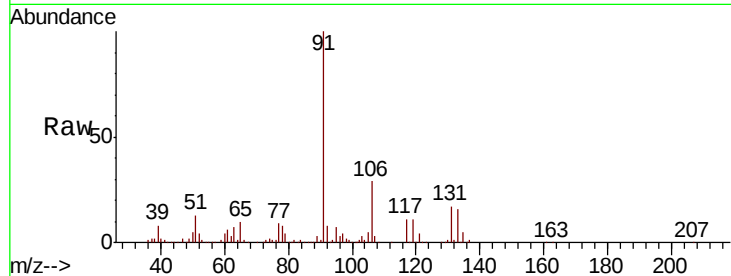




#67  
Ethyl Benzene  
Concen: 20.205 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

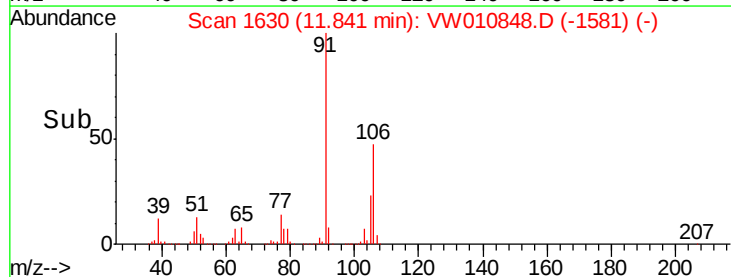
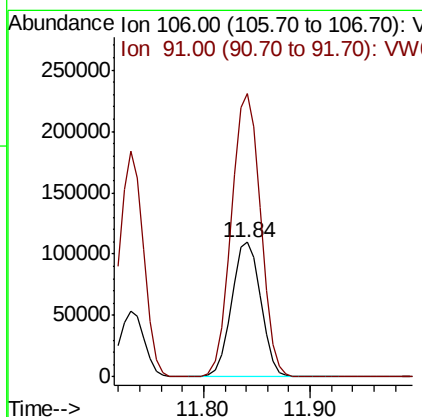
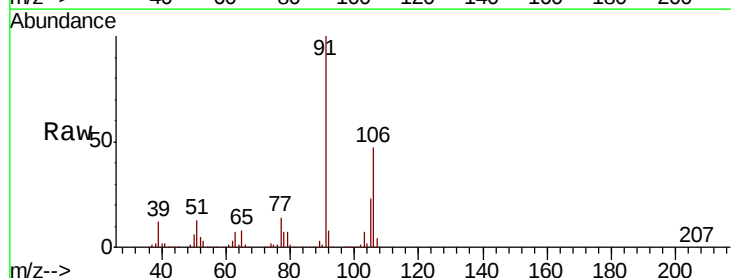
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

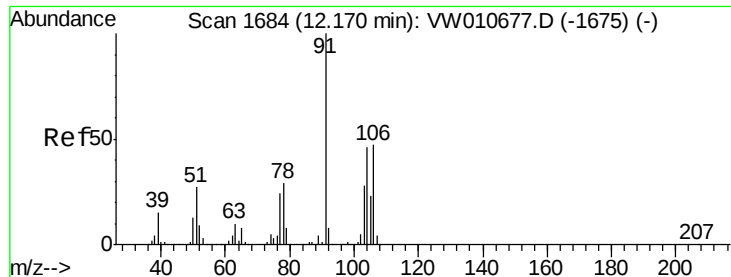
Tot Ion: 91 Resp: 296407  
Ion Ratio Lower Upper  
91 100  
106 29.3 24.2 36.4



#68  
m/p-Xylenes  
Concen: 40.229 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 106 Resp: 211258  
Ion Ratio Lower Upper  
106 100  
91 210.3 166.5 249.7

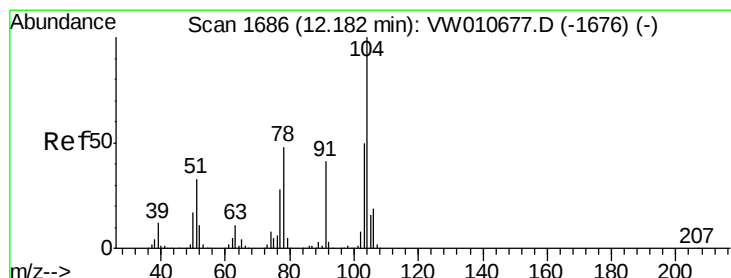
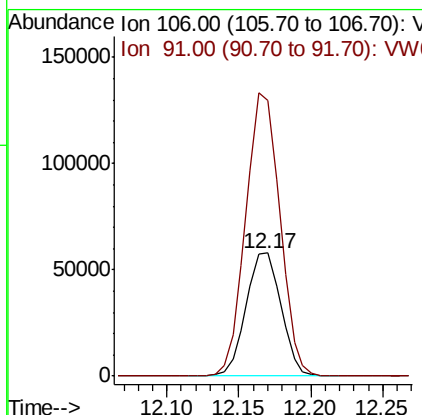
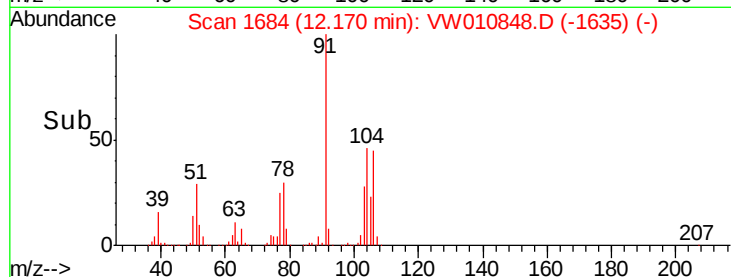
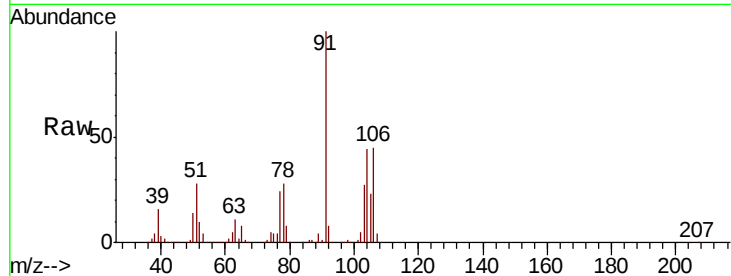




#69  
o-Xylene  
Concen: 19.626 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

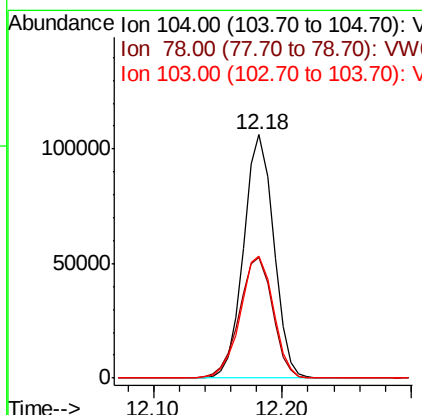
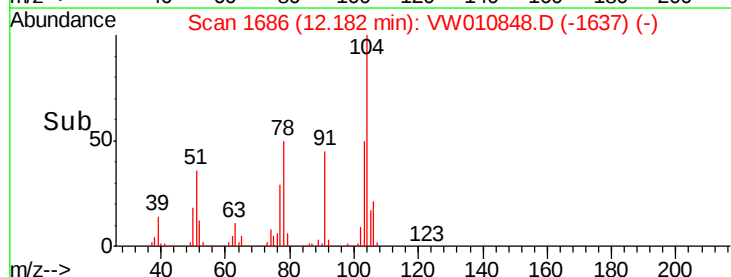
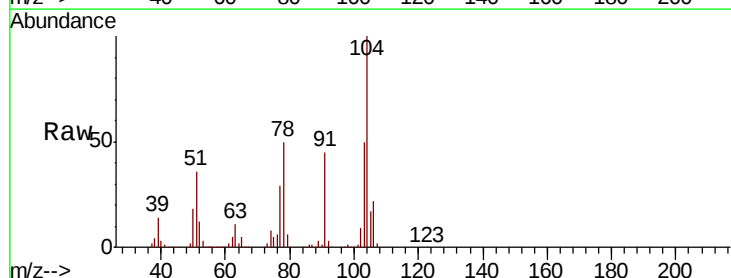
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

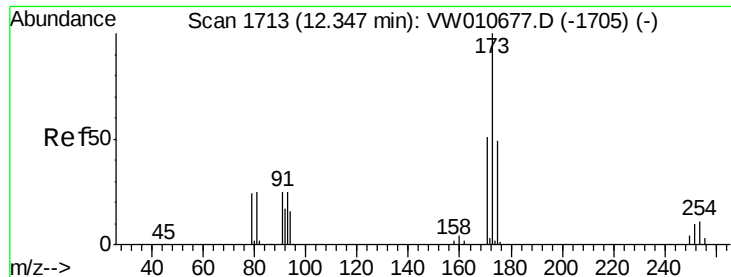
Tot Ion:106 Resp: 97748  
Ion Ratio Lower Upper  
106 100  
91 225.0 108.9 326.6



#70  
Styrene  
Concen: 19.812 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion:104 Resp: 171409  
Ion Ratio Lower Upper  
104 100  
78 55.1 42.7 64.1  
103 55.1 43.6 65.4





#71

Bromoform

Concen: 17.883 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

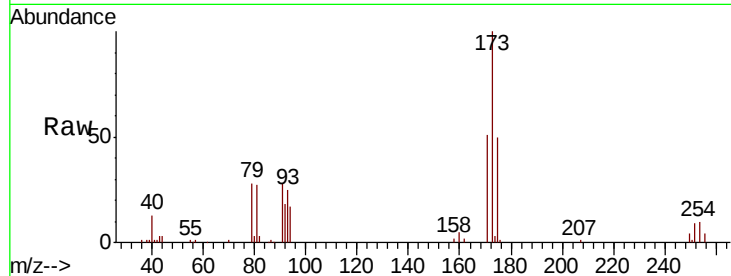
Tot Ion:173 Resp: 24438

Ion Ratio Lower Upper

173 100

175 49.1 24.3 72.8

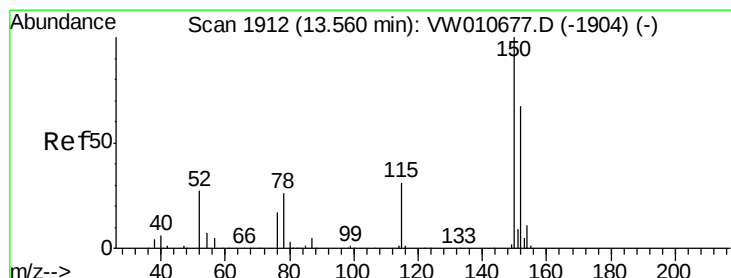
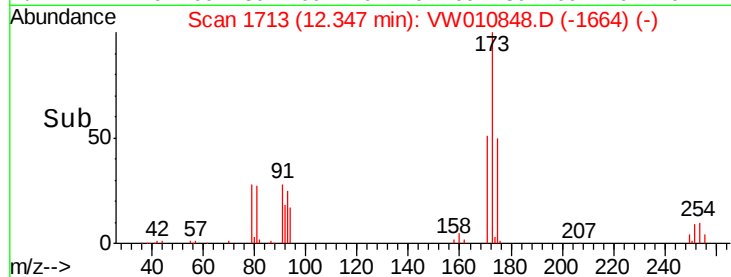
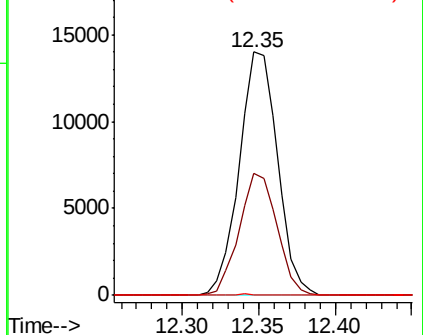
254 0.2 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

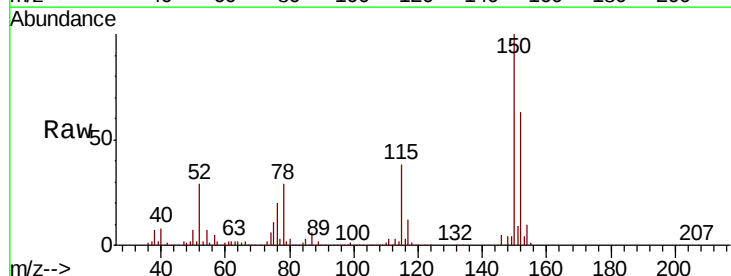
Tgt Ion:152 Resp: 185995

Ion Ratio Lower Upper

152 100

115 60.9 29.8 89.3

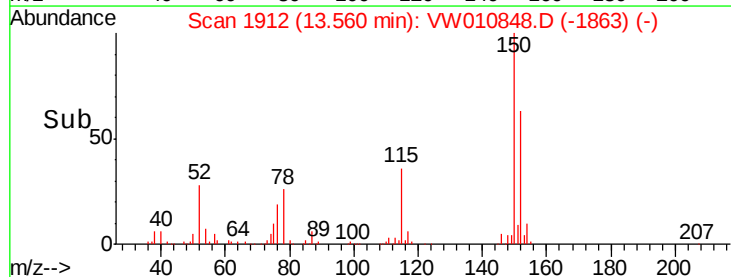
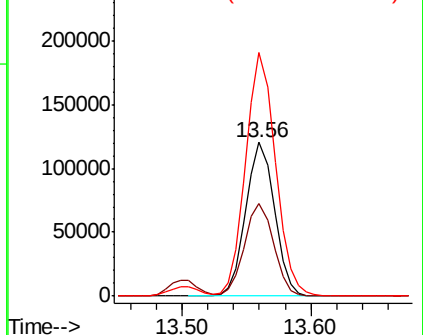
150 163.9 0.0 345.0

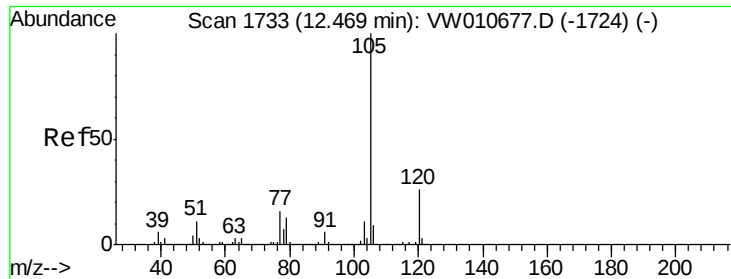


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

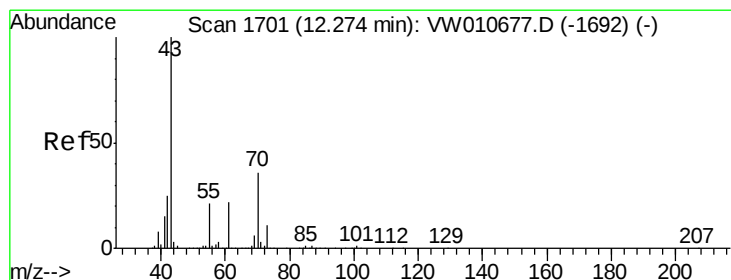
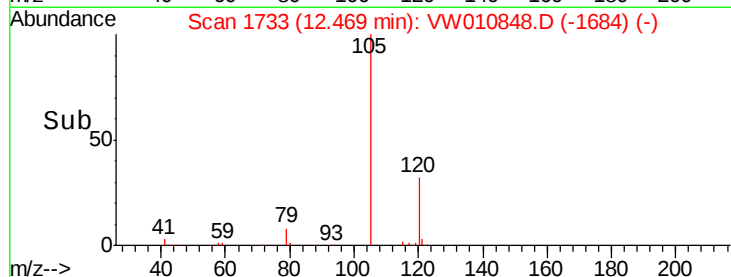
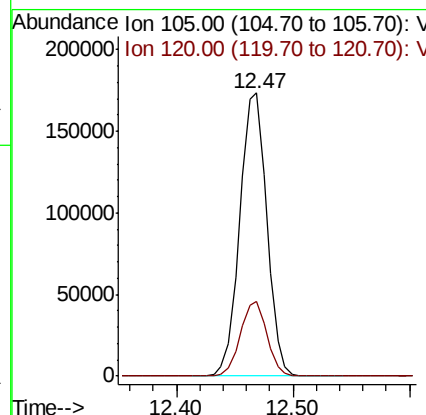
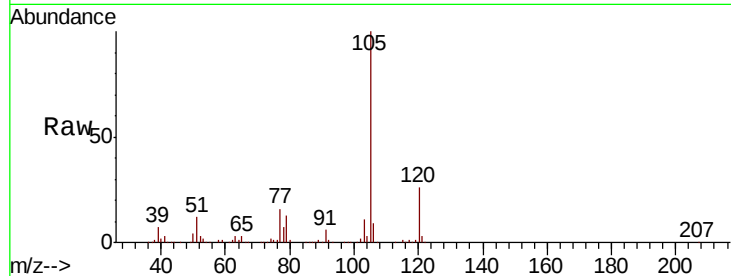




#73  
Isopropylbenzene  
Concen: 20.151 ug/l  
RT: 12.47 min Scan# 1733  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

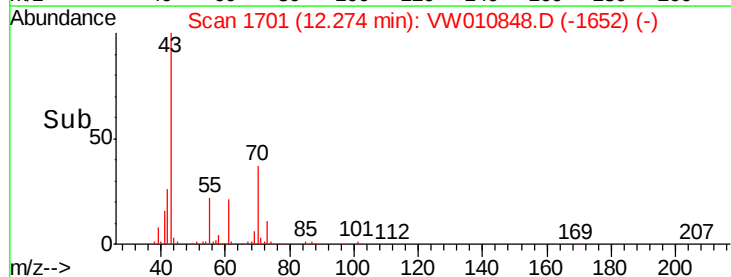
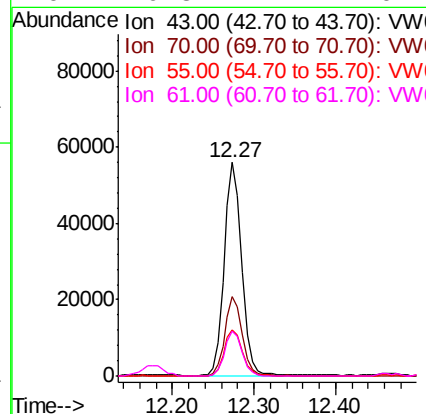
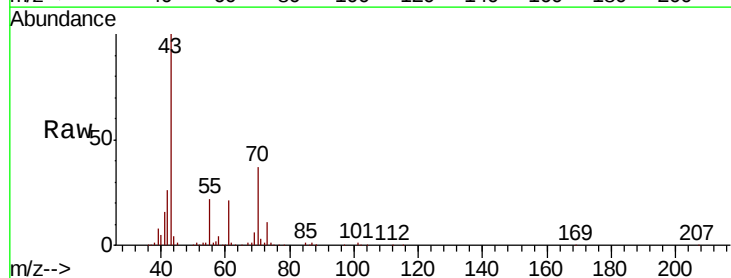
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

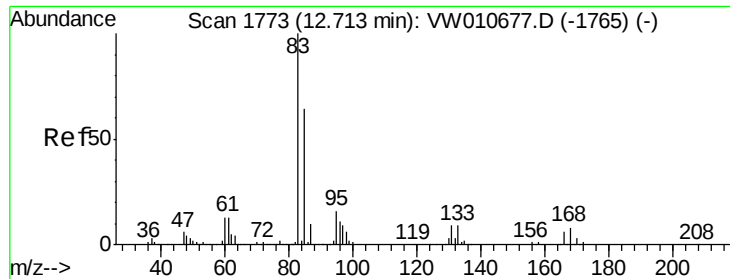
Tot Ion:105 Resp: 281651  
Ion Ratio Lower Upper  
105 100  
120 25.8 13.1 39.1



#74  
N-ethyl acetate  
Concen: 18.622 ug/l  
RT: 12.27 min Scan# 1701  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 43 Resp: 84116  
Ion Ratio Lower Upper  
43 100  
70 36.7 29.2 43.8  
55 22.6 17.5 26.3  
61 20.8 17.4 26.2





#75

1,1,2,2-Tetrachloroethane

Concen: 18.768 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

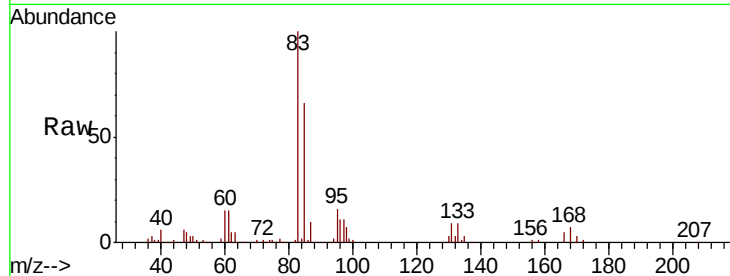
Tot Ion: 83 Resp: 49939

Ion Ratio Lower Upper

83 100

131 9.9 4.9 14.7

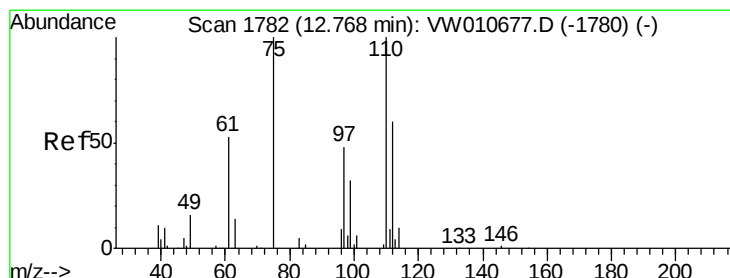
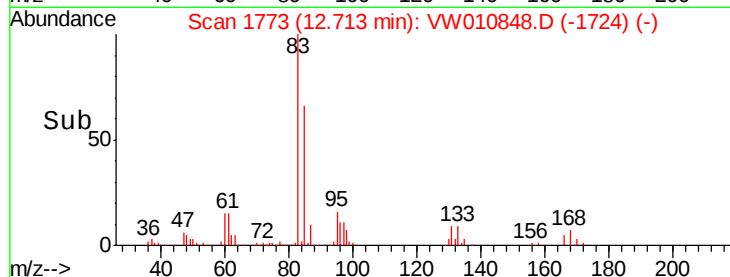
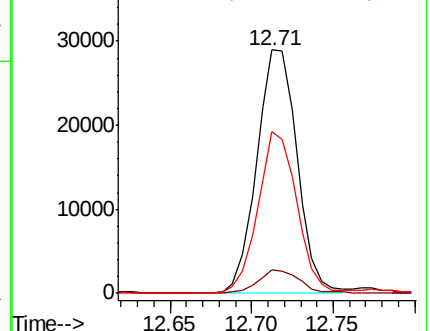
85 64.0 31.9 95.9



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 34.296 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW010848.D

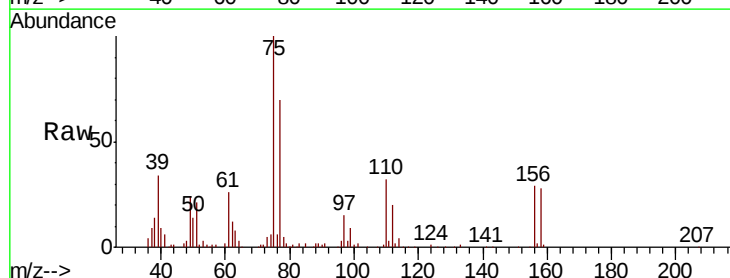
Acq: 19 Jun 2019 14:12

Tgt Ion: 75 Resp: 66987

Ion Ratio Lower Upper

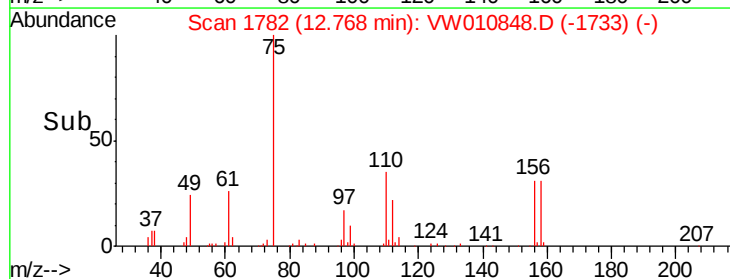
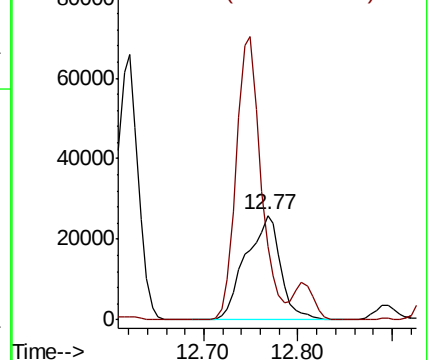
75 100

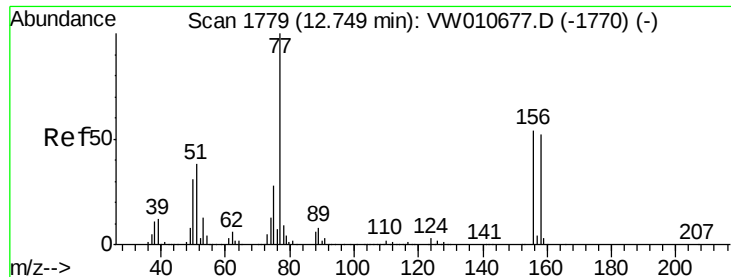
77 192.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 19.680 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

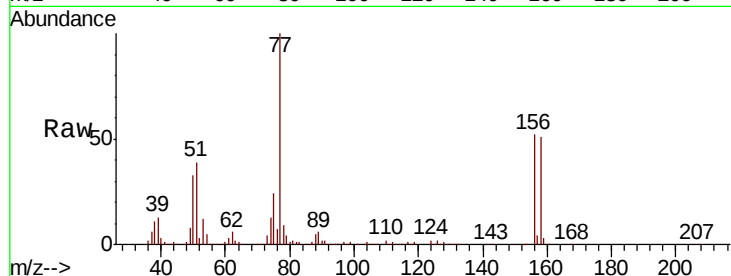
Tot Ion:156 Resp: 60043

Ion Ratio Lower Upper

156 100

77 215.0 106.5 319.4

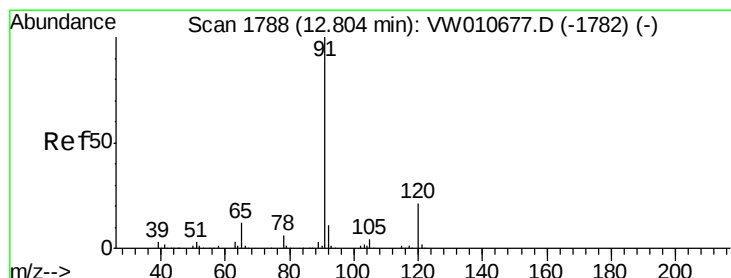
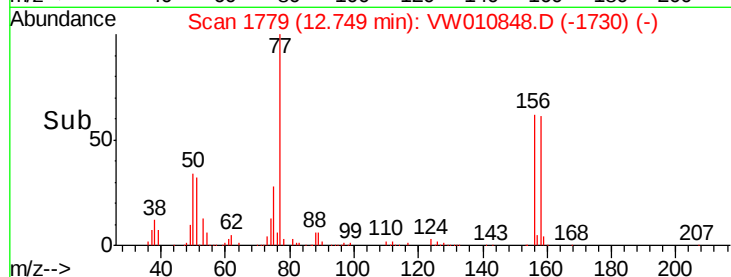
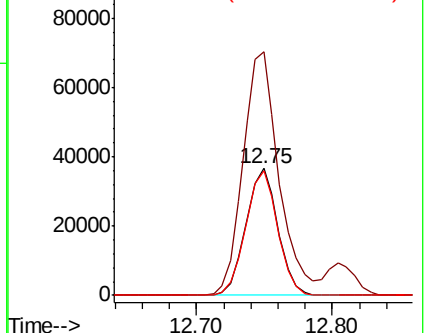
158 98.5 48.3 144.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.407 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW010848.D

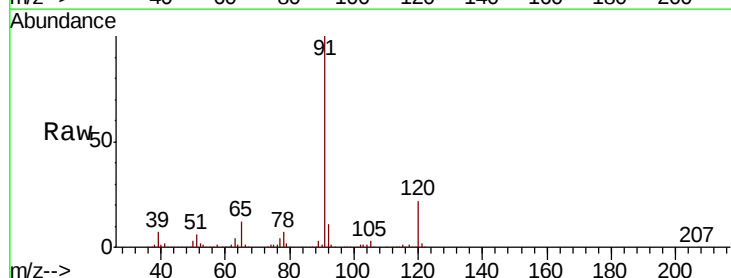
Acq: 19 Jun 2019 14:12

Tgt Ion: 91 Resp: 343928

Ion Ratio Lower Upper

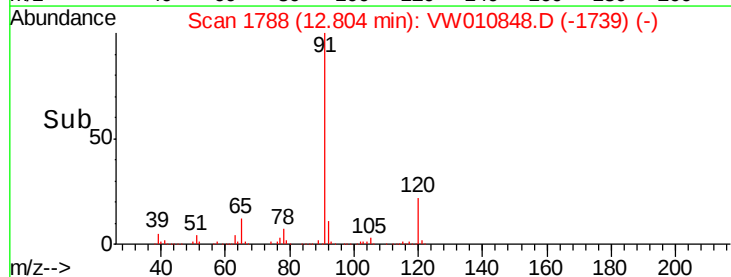
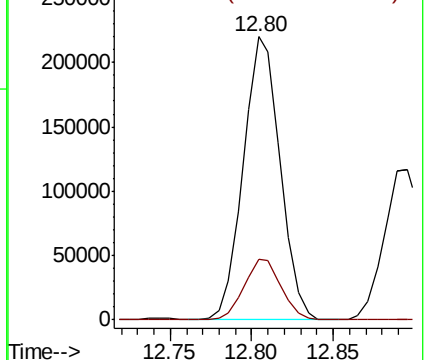
91 100

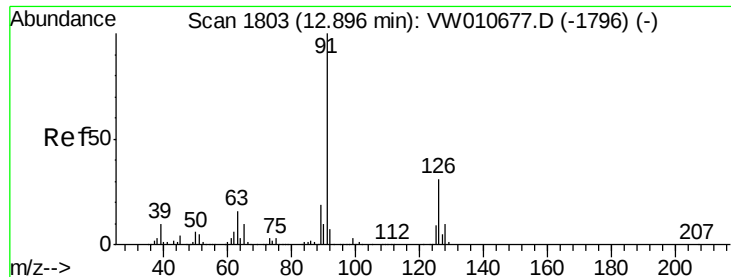
120 21.6 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.413 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

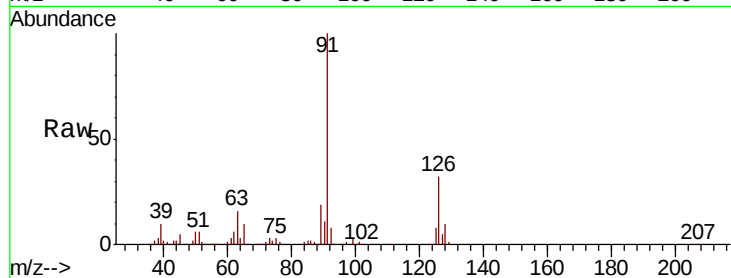
VW0619SBS01

Tot Ion: 91 Resp: 196551

Ion Ratio Lower Upper

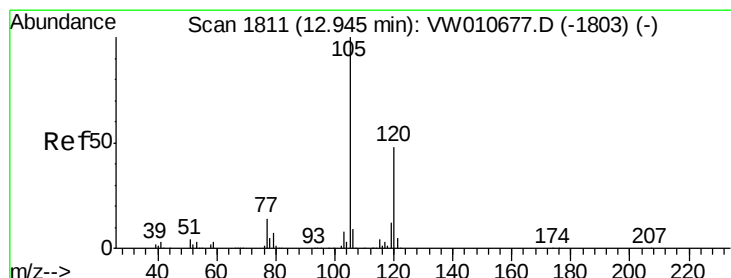
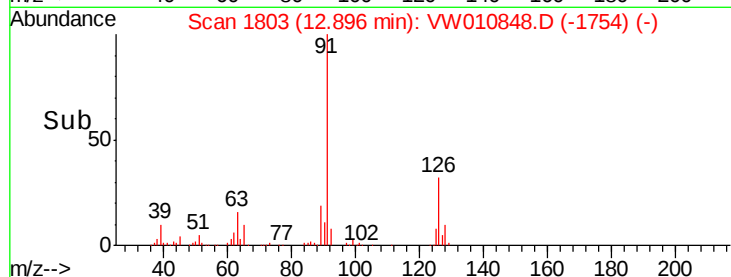
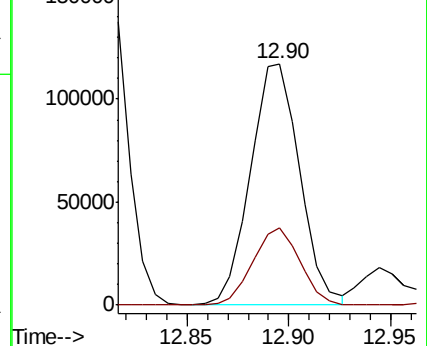
91 100

126 31.1 15.7 47.0



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: 20.352 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW010848.D

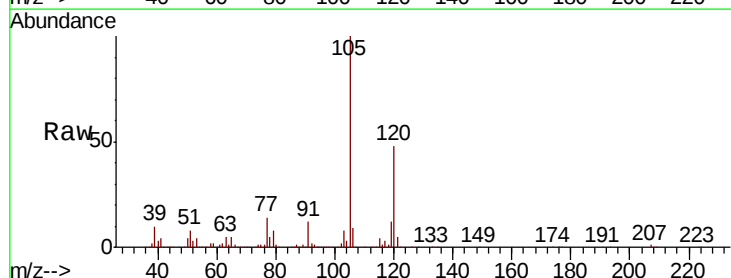
Acq: 19 Jun 2019 14:12

Tgt Ion:105 Resp: 232834

Ion Ratio Lower Upper

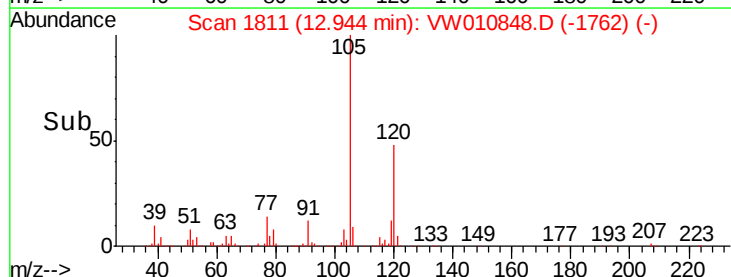
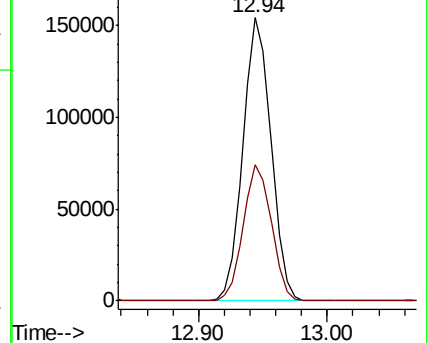
105 100

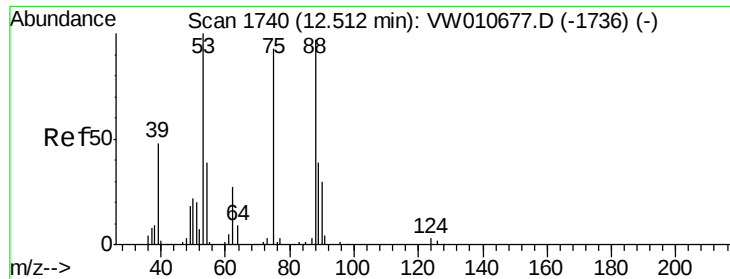
120 48.3 24.3 72.8



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: 17.194 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

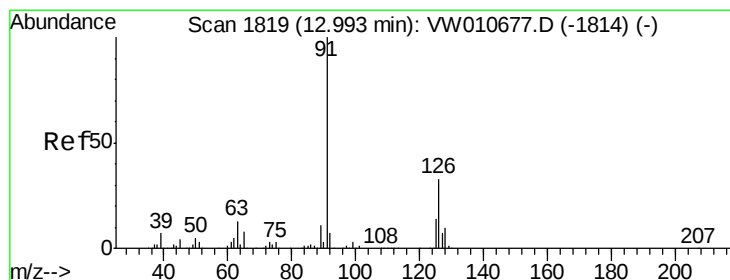
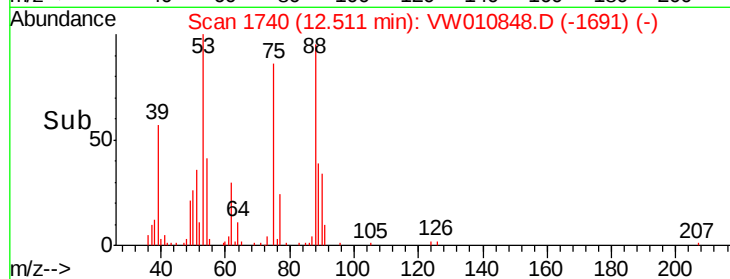
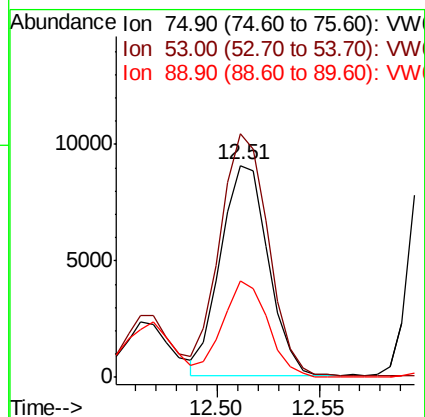
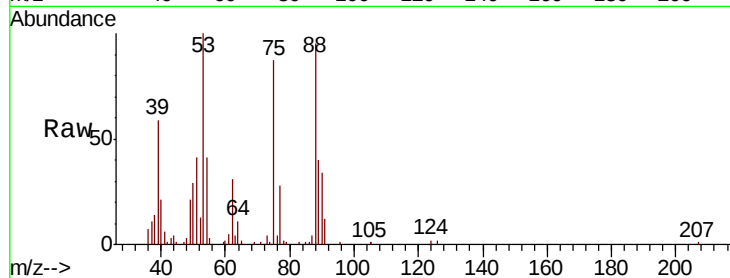
Tot Ion: 75 Resp: 14612

Ion Ratio Lower Upper

75 100

53 118.0 90.1 135.1

89 44.0 34.6 52.0



#82

4-Chlorotoluene

Concen: 20.395 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VW010848.D

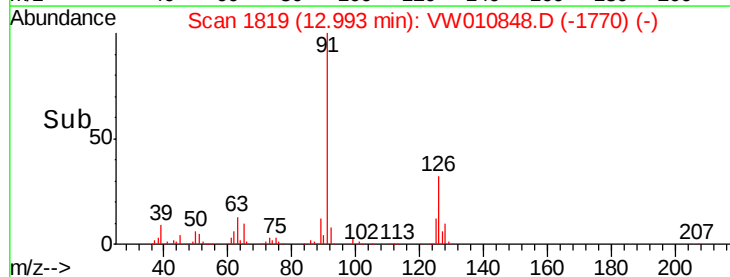
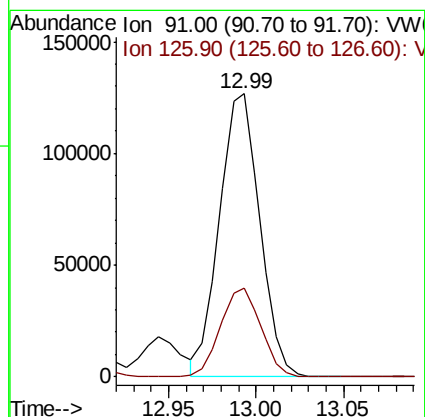
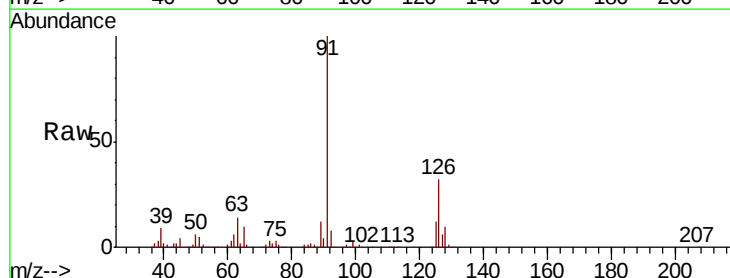
Acq: 19 Jun 2019 14:12

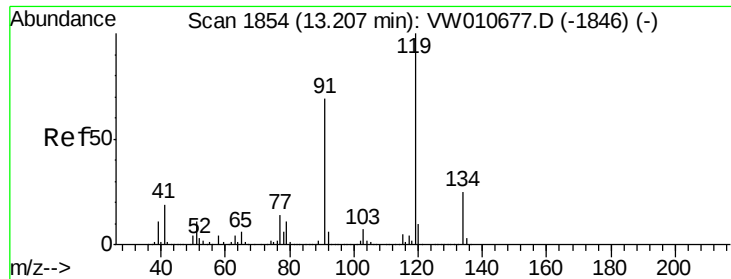
Tgt Ion: 91 Resp: 202648

Ion Ratio Lower Upper

91 100

126 31.6 15.9 47.7

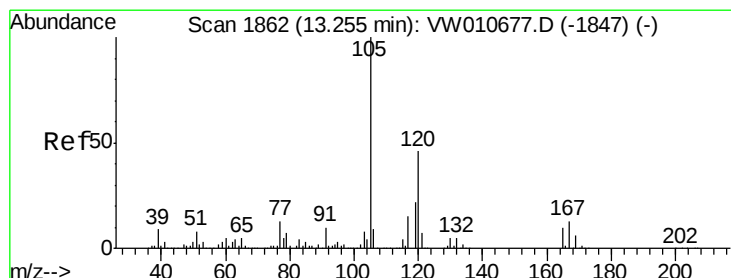
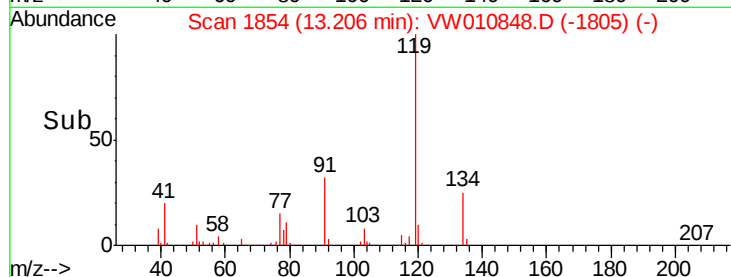
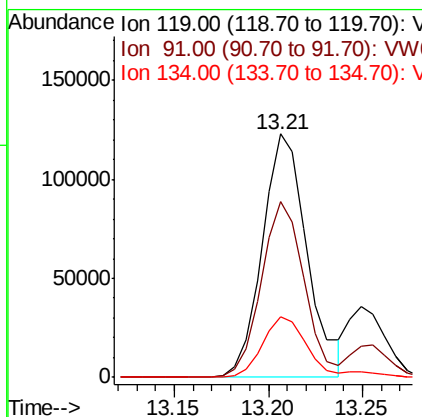
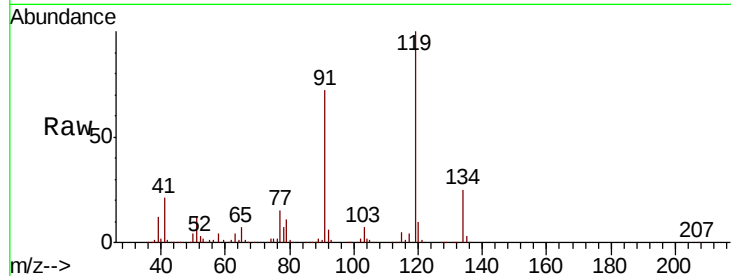




#83  
tert-Butylbenzene  
Concen: 20.892 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

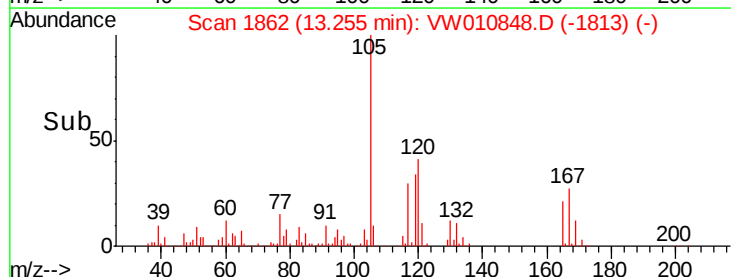
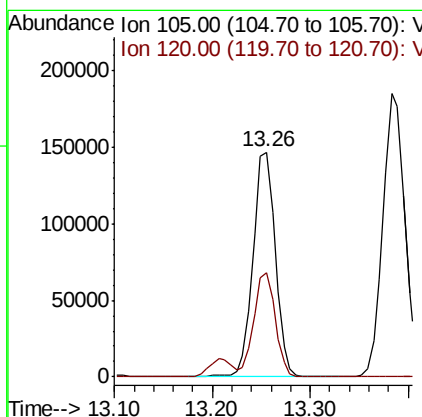
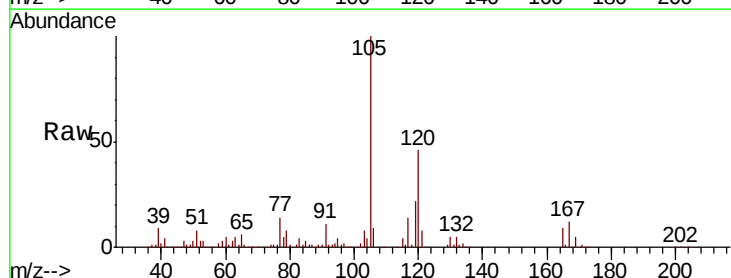
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

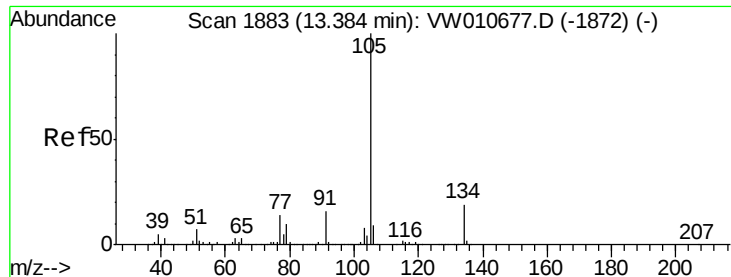
Tot Ion:119 Resp: 202841  
Ion Ratio Lower Upper  
119 100  
91 69.0 35.1 105.3  
134 26.0 13.6 40.7



#84  
1,2,4-Trimethylbenzene  
Concen: 20.321 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion:105 Resp: 233940  
Ion Ratio Lower Upper  
105 100  
120 44.8 22.5 67.5





#85

sec-Butylbenzene

Concen: 20.309 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

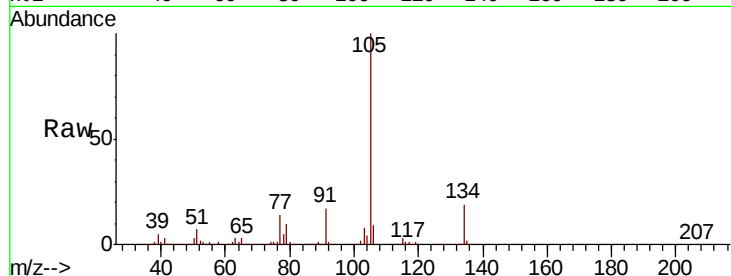
VW0619SBS01

Tot Ion:105 Resp: 287087

Ion Ratio Lower Upper

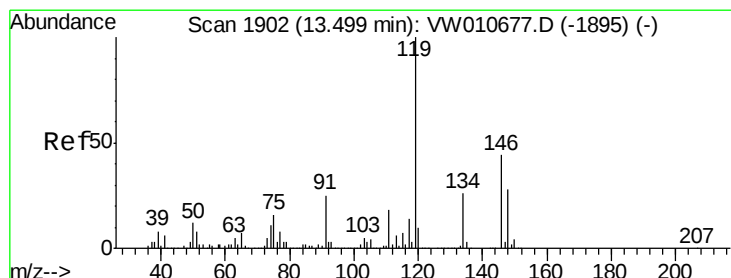
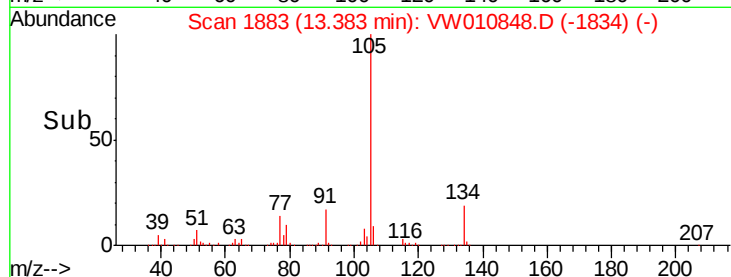
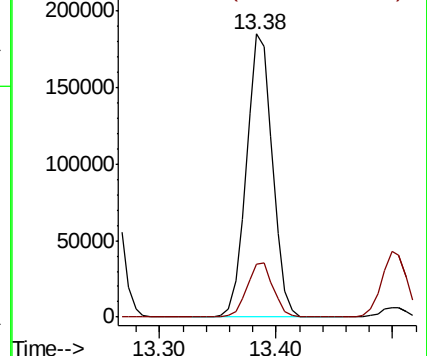
105 100

134 19.4 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.107 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

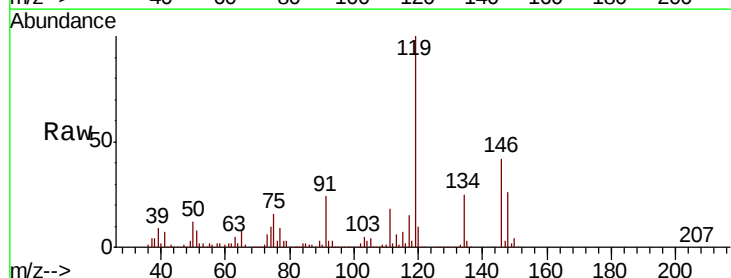
Tgt Ion:119 Resp: 254183

Ion Ratio Lower Upper

119 100

134 25.6 13.0 39.0

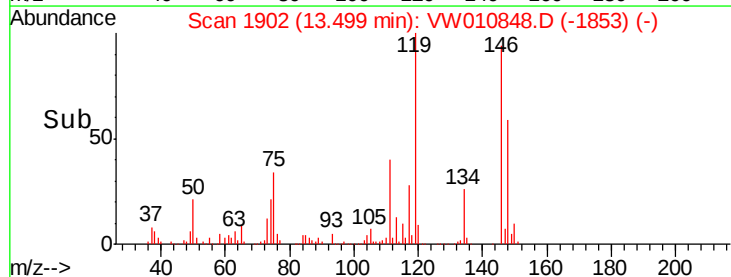
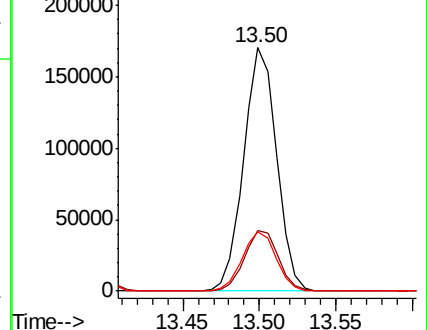
91 24.9 12.2 36.4

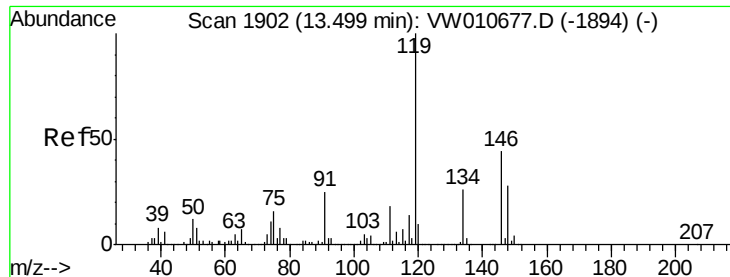


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 20.255 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0619SBS01

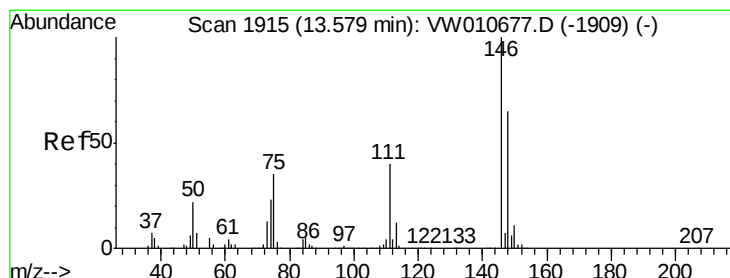
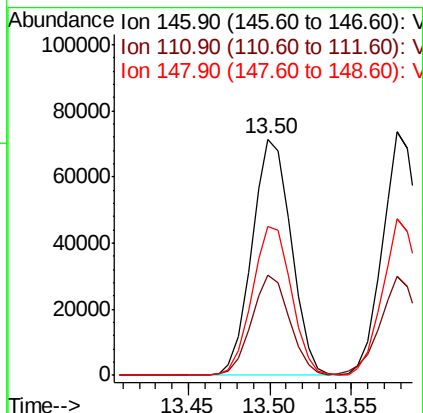
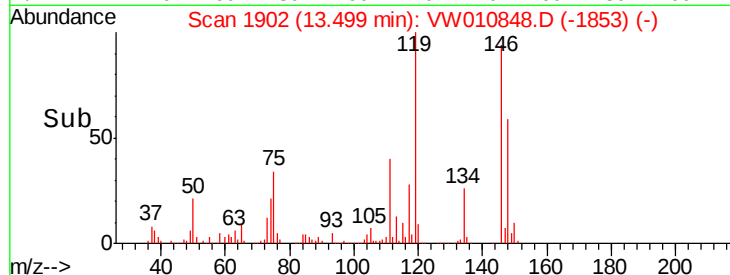
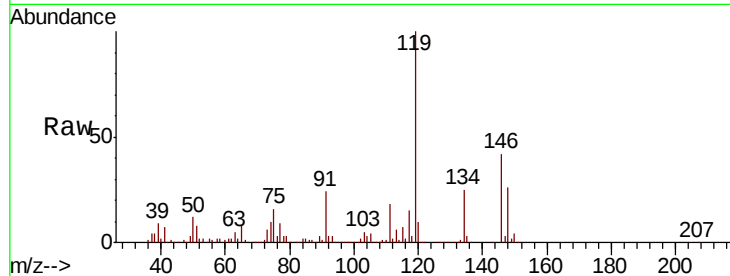
Tot Ion:146 Resp: 119172

Ion Ratio Lower Upper

146 100

111 41.2 20.4 61.3

148 63.1 31.5 94.5



#88

1,4-Dichlorobenzene

Concen: 20.100 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW010848.D

Acq: 19 Jun 2019 14:12

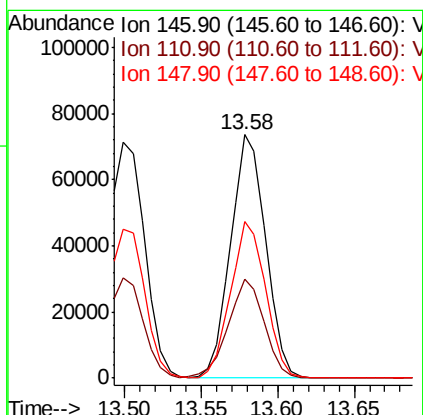
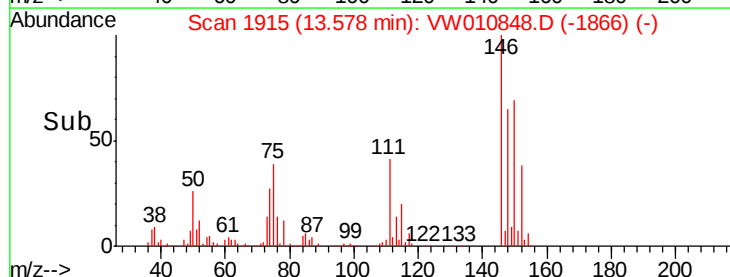
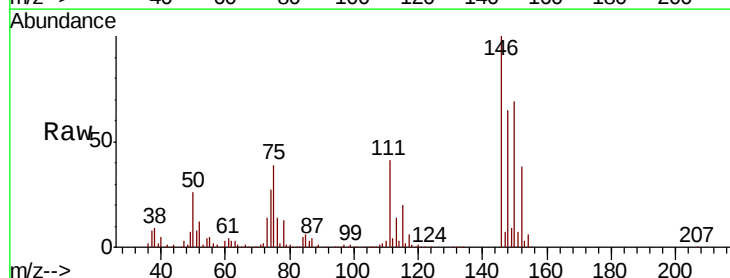
Tgt Ion:146 Resp: 117240

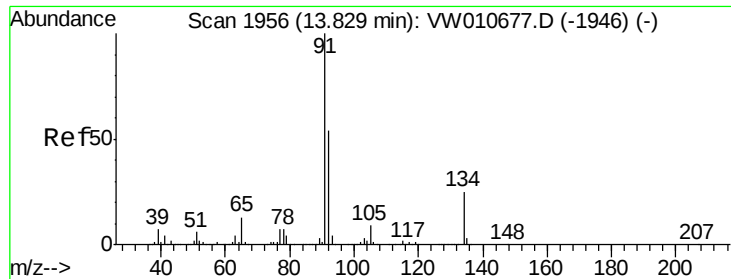
Ion Ratio Lower Upper

146 100

111 41.7 20.3 60.9

148 64.1 32.4 97.2

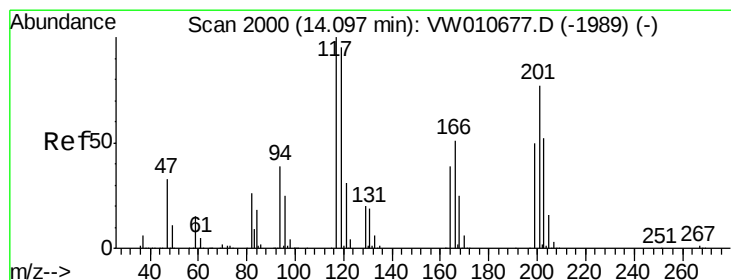
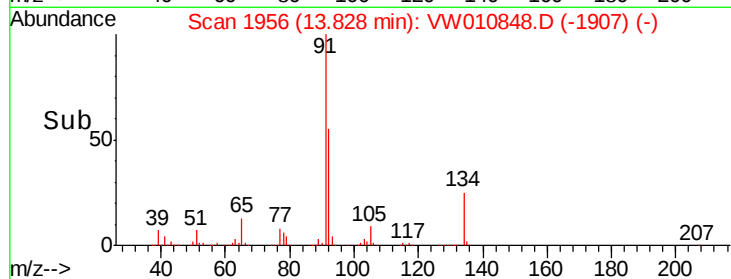
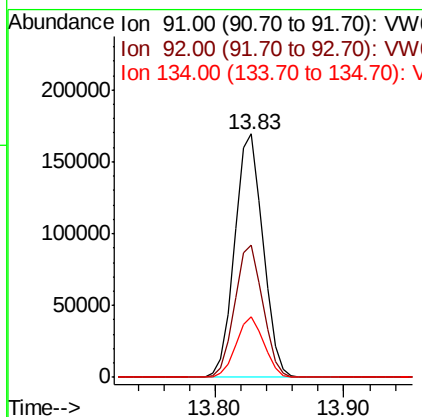
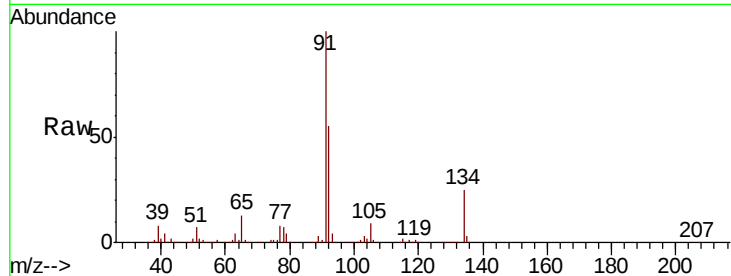




#89  
n-Butylbenzene  
Concen: 20.490 ug/l  
RT: 13.83 min Scan# 1956  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

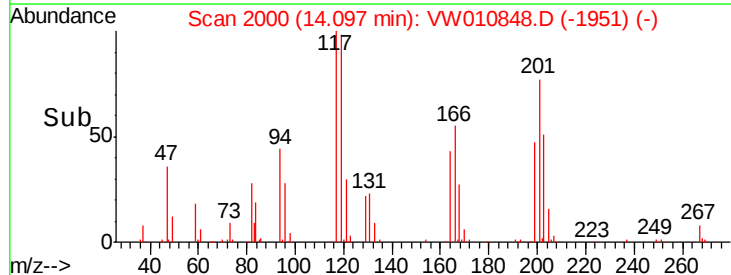
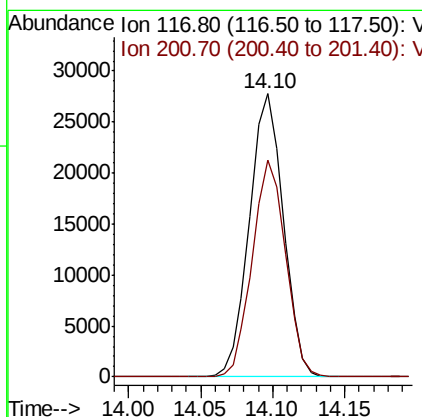
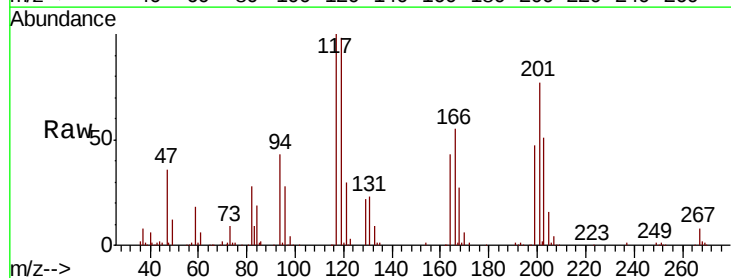
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

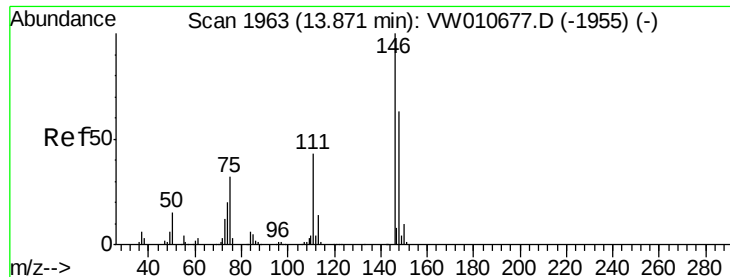
Tot Ion: 91 Resp: 258439  
Ion Ratio Lower Upper  
91 100  
92 54.1 27.3 81.8  
134 24.2 12.3 36.9



#90  
Hexachloroethane  
Concen: 20.006 ug/l  
RT: 14.10 min Scan# 2000  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion: 117 Resp: 45290  
Ion Ratio Lower Upper  
117 100  
201 75.1 38.8 116.4

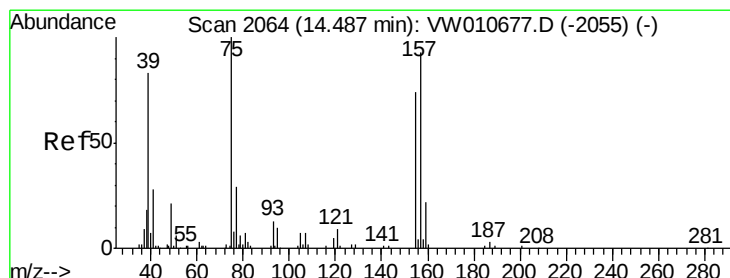
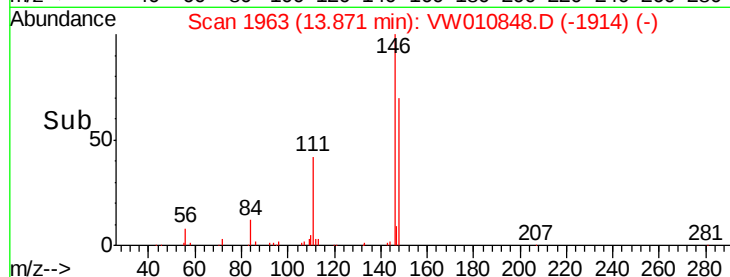
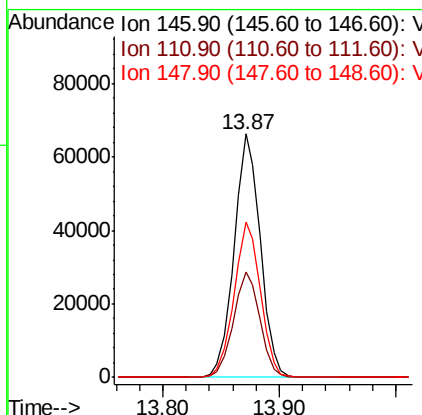
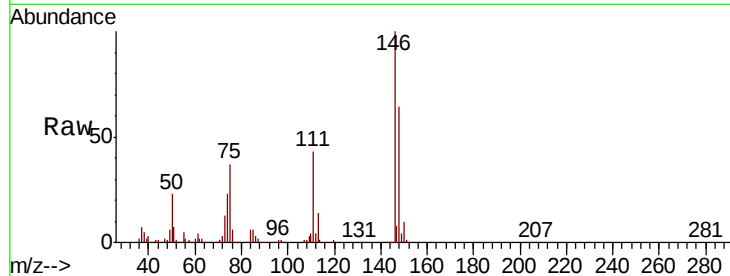




#91  
 1,2-Dichlorobenzene  
 Concen: 19.647 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

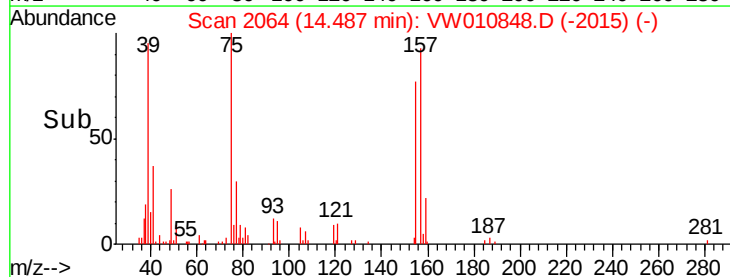
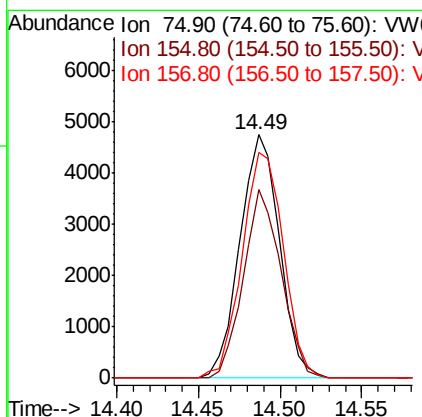
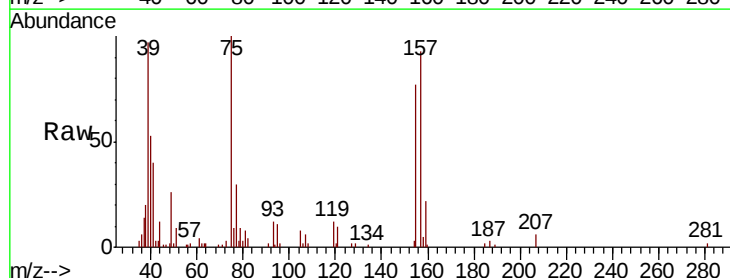
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

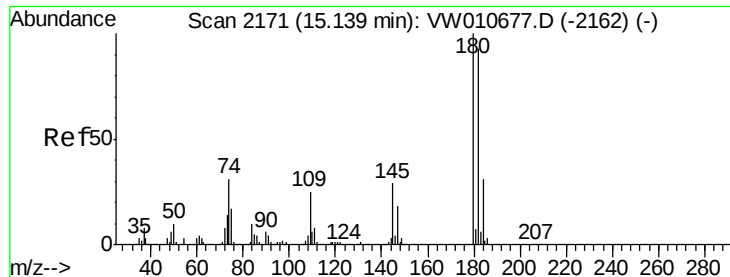
Tot Ion:146 Resp: 103953  
 Ion Ratio Lower Upper  
 146 100  
 111 43.4 21.5 64.5  
 148 64.0 31.9 95.5



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 17.574 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Tgt Ion: 75 Resp: 8030  
 Ion Ratio Lower Upper  
 75 100  
 155 74.0 38.8 116.4  
 157 96.7 48.4 145.0

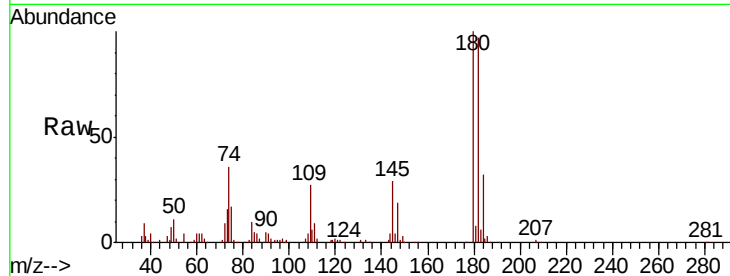




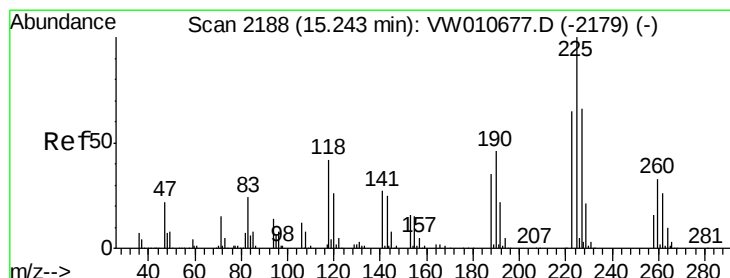
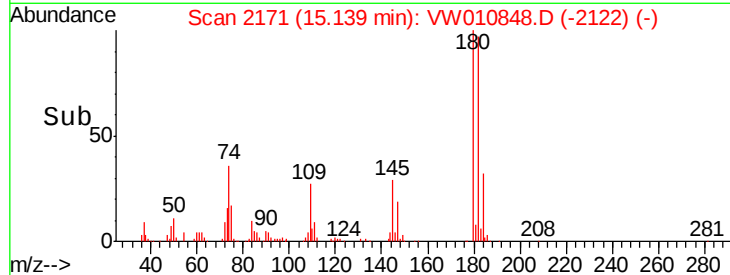
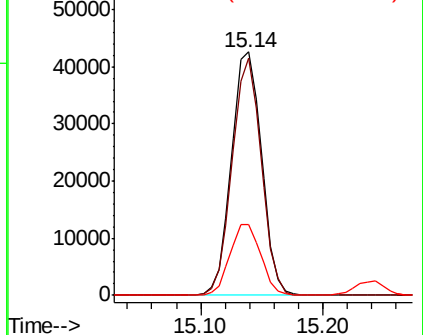
#93  
 1,2,4-Trichlorobenzene  
 Concen: 19.537 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0619SBS01

Tot Ion:180 Resp: 72541  
 Ion Ratio Lower Upper  
 180 100  
 182 94.0 47.1 141.4  
 145 29.9 15.2 45.5

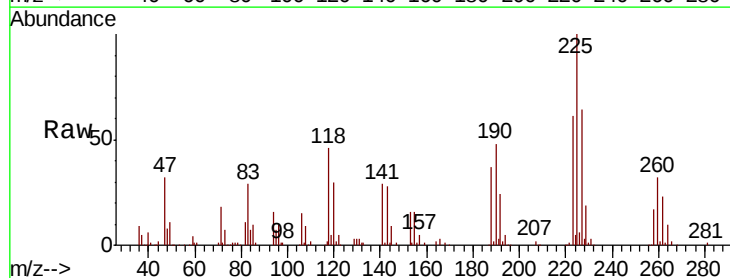


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

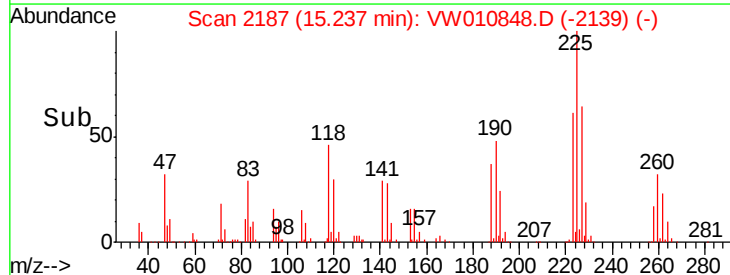
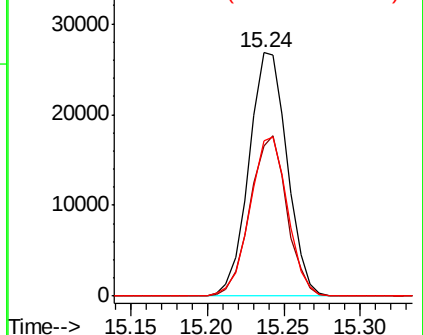


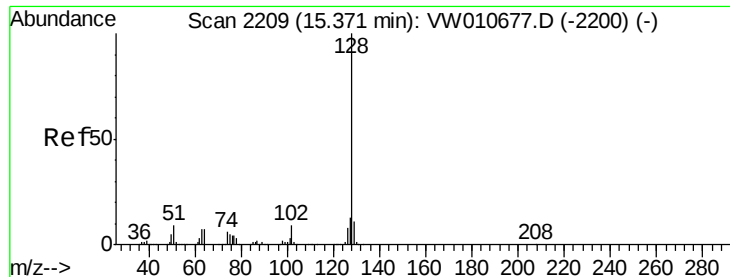
#94  
 Hexachlorobutadiene  
 Concen: 19.969 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.01 min  
 Lab File: VW010848.D  
 Acq: 19 Jun 2019 14:12

Tgt Ion:225 Resp: 46533  
 Ion Ratio Lower Upper  
 225 100  
 223 63.6 32.2 96.6  
 227 64.3 32.0 96.0



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

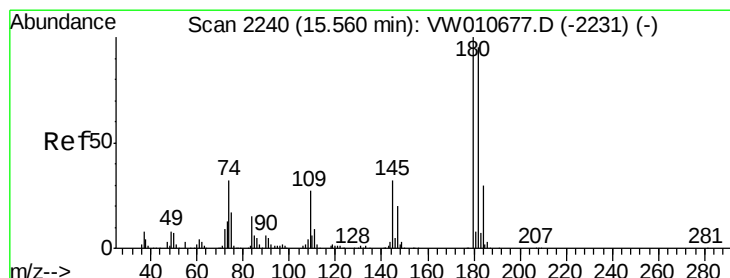
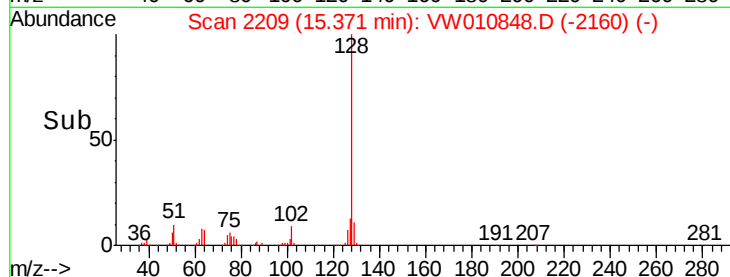
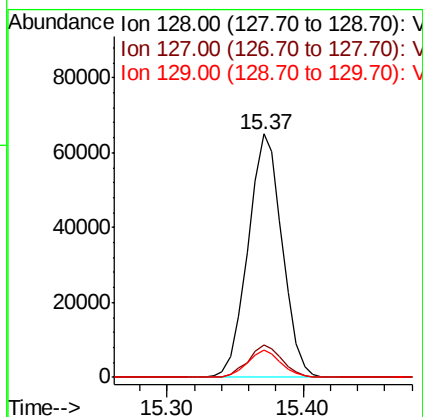
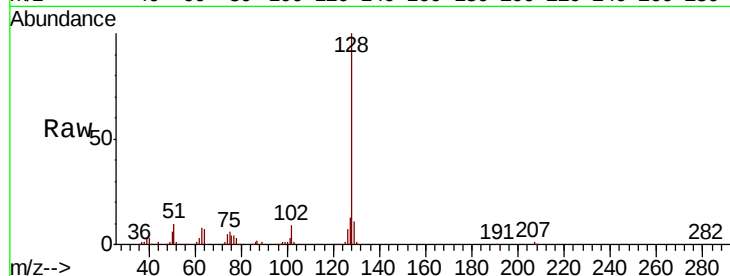




#95  
Naphthalene  
Concen: 16.952 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0619SBS01

Tot Ion:128 Resp: 114363  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 15.8  
129 11.0 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 19.345 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: VW010848.D  
Acq: 19 Jun 2019 14:12

Tgt Ion:180 Resp: 61086  
Ion Ratio Lower Upper  
180 100  
182 94.2 47.0 141.0  
145 32.6 16.1 48.3

