

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081219\  
 Data File : VW011863.D  
 Acq On : 12 Aug 2019 19:59  
 Operator : SY/VA  
 Sample : VSTDCCC050EC  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 13 07:48:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 218163   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 357979   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 318491   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 153893   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 137113   | 54.73 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.46% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 109487   | 54.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.04% |      |
| 50) Toluene-d8            | 10.32  | 98  | 437362   | 53.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.38% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 156027   | 53.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.44% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 54335   | 44.689  | ug/l | 96     |
| 3) Chloromethane              | 2.21 | 50  | 92726   | 43.981  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.36 | 62  | 116438  | 45.873  | ug/l | 97     |
| 5) Bromomethane               | 2.76 | 94  | 59772   | 42.543  | ug/l | 99     |
| 6) Chloroethane               | 2.91 | 64  | 71681   | 49.439  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.24 | 101 | 63443   | 55.927  | ug/l | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 68958   | 53.615  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 112692  | 52.369  | ug/l | 98     |
| 10) Methyl Iodide             | 4.27 | 142 | 163948  | 53.912  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 42808   | 230.131 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 112163  | 49.366  | ug/l | 95     |
| 13) Acrolein                  | 3.89 | 56  | 31734   | 176.545 | ug/l | 95     |
| 14) Allyl chloride            | 4.66 | 41  | 262478  | 54.315  | ug/l | 98     |
| 15) Acrylonitrile             | 5.37 | 53  | 172549  | 268.748 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 156823  | 196.798 | ug/l | 96     |
| 17) Carbon Disulfide          | 4.38 | 76  | 345893  | 48.640  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 101545  | 56.724  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 197898  | 54.888  | ug/l | 100    |
| 20) Methylene Chloride        | 4.91 | 84  | 136265  | 49.582  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 131636  | 53.739  | ug/l | 97     |
| 22) Diisopropyl ether         | 6.31 | 45  | 505800  | 55.515  | ug/l | 99     |
| 23) Vinyl Acetate             | 6.25 | 43  | 1542490 | 269.433 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 269440  | 55.218  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 240880  | 231.009 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 138269  | 46.076  | ug/l | 97     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 142824  | 52.977  | ug/l | 100    |
| 28) Bromochloromethane        | 7.51 | 49  | 119730  | 55.281  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 158231  | 265.473 | ug/l | 99     |
| 30) Chloroform                | 7.68 | 83  | 246566  | 54.771  | ug/l | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 234033  | 49.965  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 190811  | 55.656  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 197913  | 53.169  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.25 | 43  | 112324  | 52.450  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 171645  | 53.865  | ug/l | 98     |

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Quant Time: Aug 13 07:48:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 215179   | 52.499   | ug/l   | 96       |
| 40) Benzene                    | 8.32  | 78   | 559428   | 53.655   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 66987    | 52.327   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 177706   | 54.438   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 210566   | 53.464   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 133198   | 53.152   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 152235   | 54.569   | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 68551    | 53.837   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.64  | 83   | 184565   | 55.258   | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.44  | 41   | 101314   | 53.551   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 19970    | 1083.170 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 542022   | 264.582  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 339066   | 53.850   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 190997   | 54.742   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 224176   | 54.038   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 97110    | 53.752   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 143126   | 54.139   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 184801   | 54.068   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 394355   | 328.538  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 366489   | 253.373  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 110462   | 55.082   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 90329    | 52.834   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 109837   | 52.966   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 338036   | 52.792   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 122933   | 55.118   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.73 | 91   | 657971   | 53.954   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 476615   | 107.467  | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 221695   | 53.793   | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 390470   | 54.798   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 62928    | 55.337   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 619462   | 53.956   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 188184   | 52.355   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 115174   | 53.333   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 153791   | 94.445   | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 136417   | 53.758   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.80 | 91   | 754621   | 54.009   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 430641   | 53.500   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 523045   | 54.349   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 37657    | 53.297   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 452451   | 53.573   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 436938   | 54.293   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 522997   | 53.947   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 620942   | 54.074   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 560924   | 53.837   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 262579   | 52.772   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 257331   | 51.990   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.82 | 91   | 552931   | 53.179   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 101666   | 55.183   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 232504   | 52.833   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 19283    | 52.363   | ug/l   | 98       |

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Sample : VSTDCCC050EC  
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ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Aug 13 07:48:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration

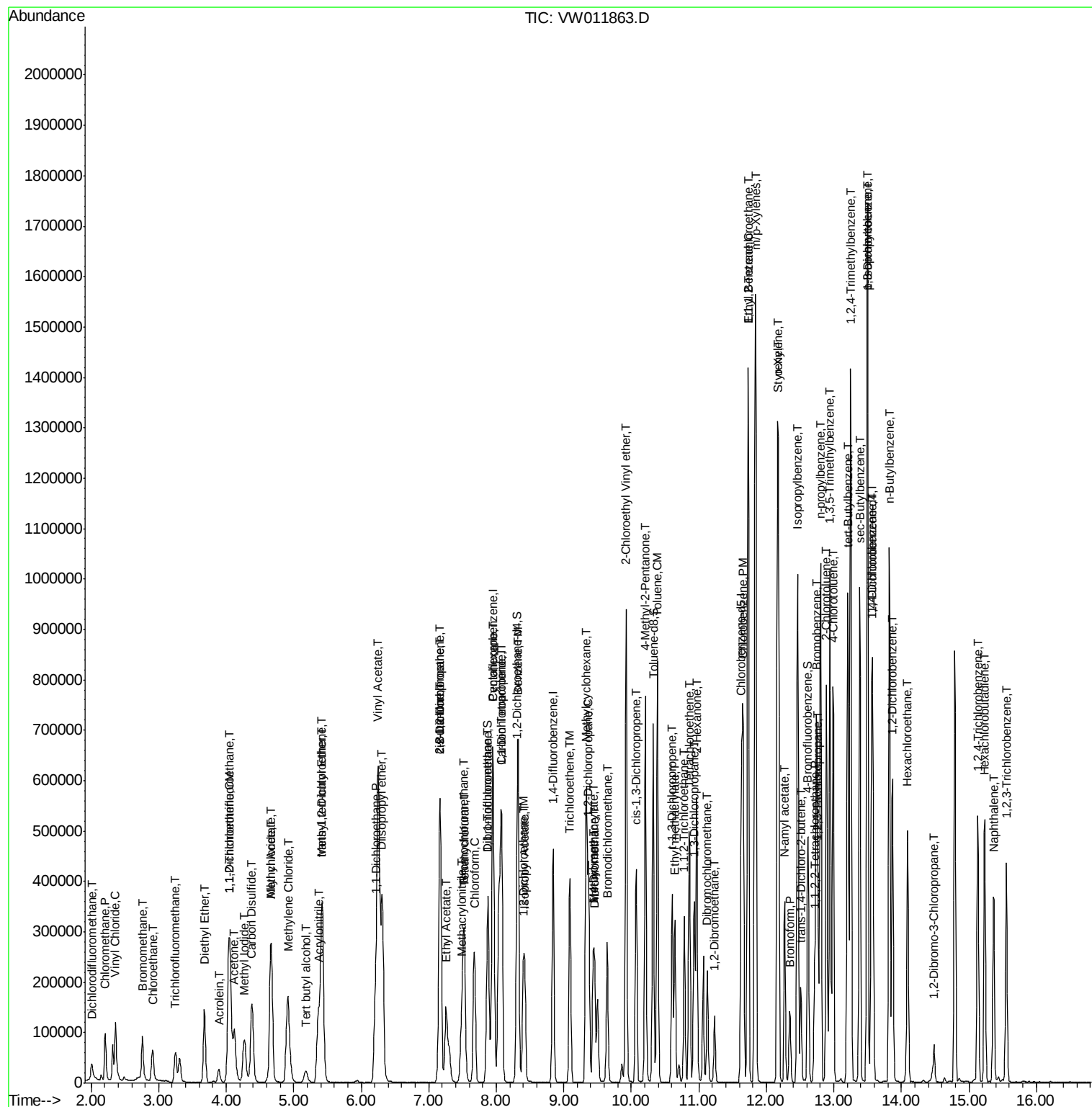
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 161298   | 52.006 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 102188   | 52.833 | ug/l  | 98       |
| 95) Naphthalene            | 15.37 | 128  | 300431   | 49.473 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 143925   | 52.940 | ug/l  | 100      |

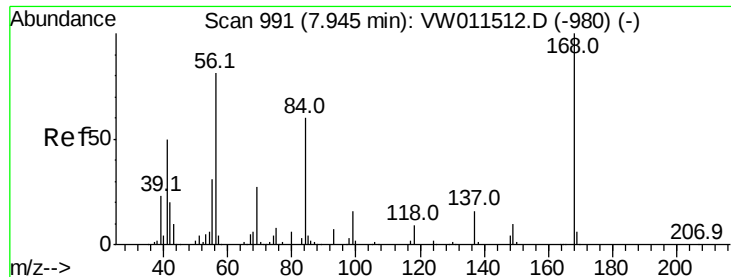
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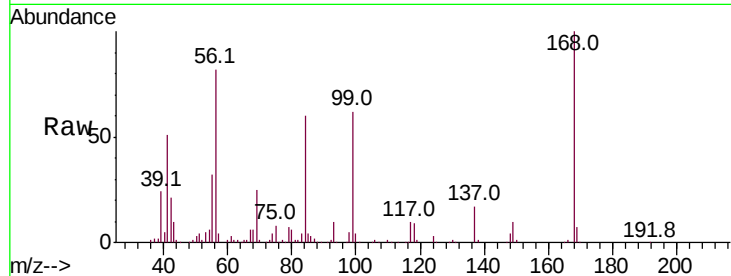


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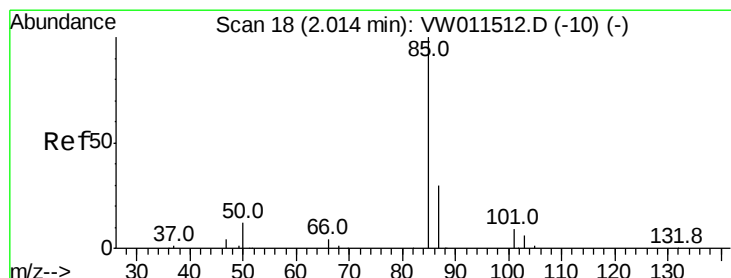
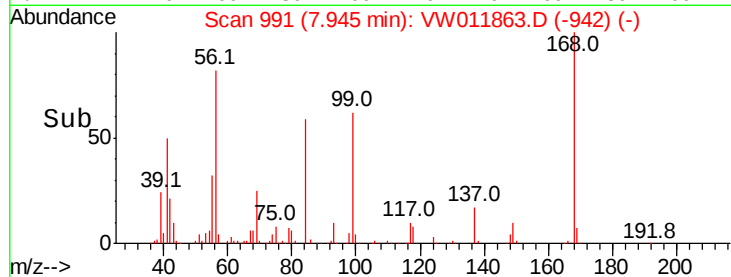
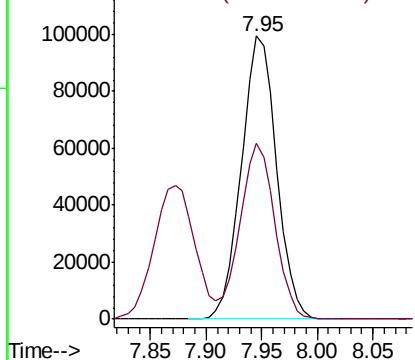
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:168 Resp: 218163  
 Ion Ratio Lower Upper  
 168 100  
 99 61.9 48.2 72.4



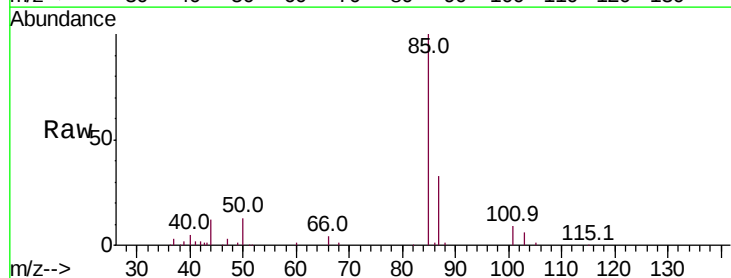
Abundance Ion 167.90 (167.60 to 168.60): V  
 Ion 98.90 (98.60 to 99.60): VW



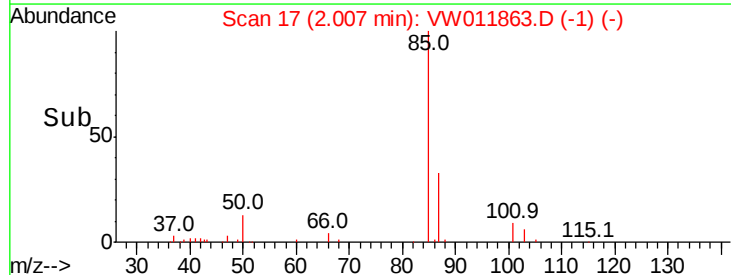
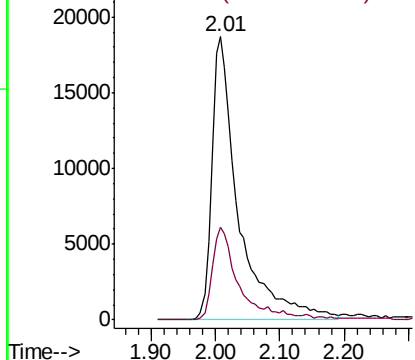
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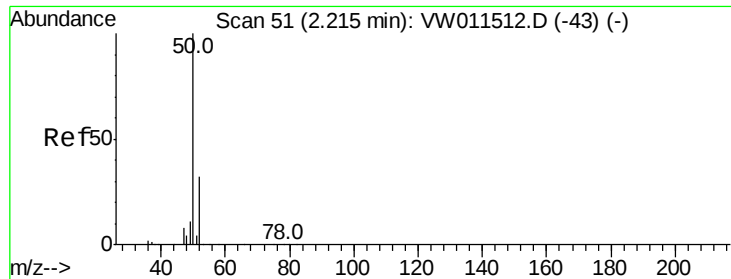
Dichlorodifluoromethane  
 Concen: 44.689 ug/l  
 RT: 2.01 min Scan# 17  
 Delta R.T. -0.01 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion: 85 Resp: 54335  
 Ion Ratio Lower Upper  
 85 100  
 87 32.8 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VW  
 Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 43.981 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

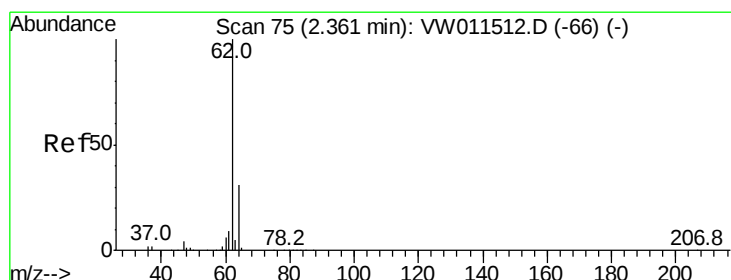
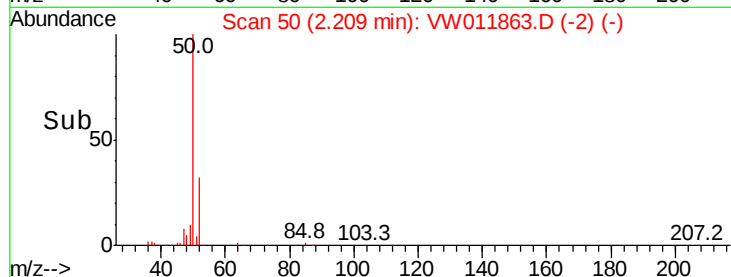
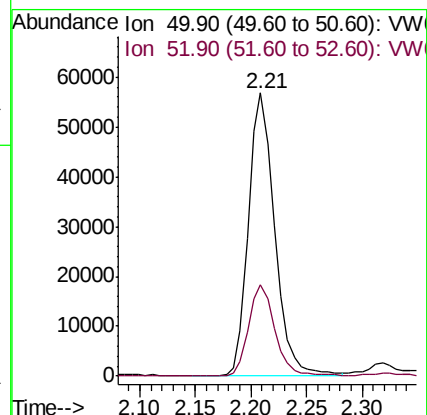
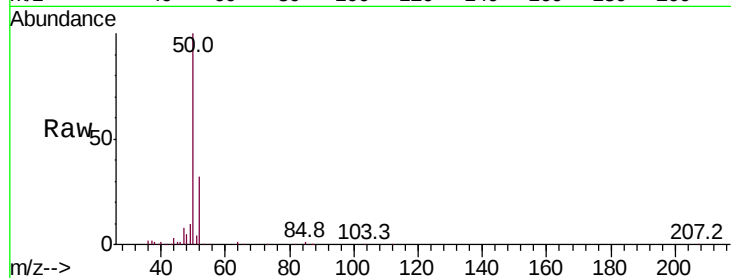
ClientSampleId :

Tot Ion: 50 Resp: 92726

Ion Ratio Lower Upper

50 100

52 32.3 25.4 38.2



#4

Vinyl Chloride

Concen: 45.873 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW011863.D

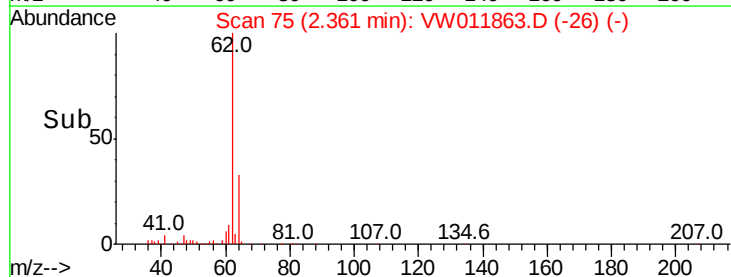
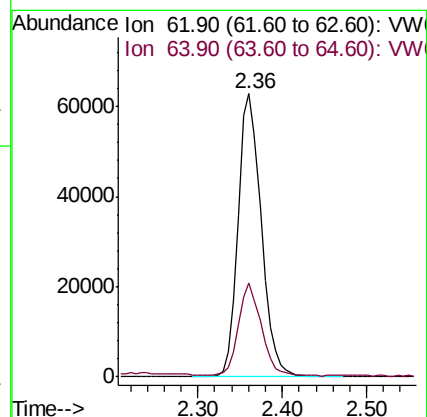
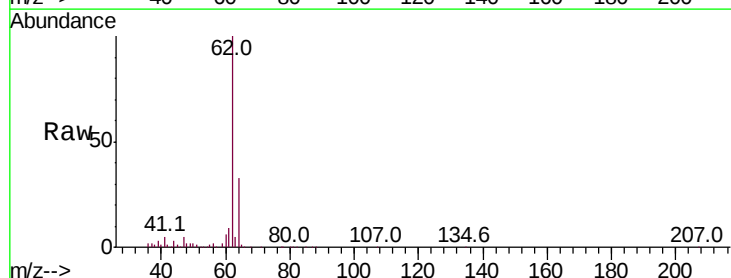
Acq: 12 Aug 2019 19:59

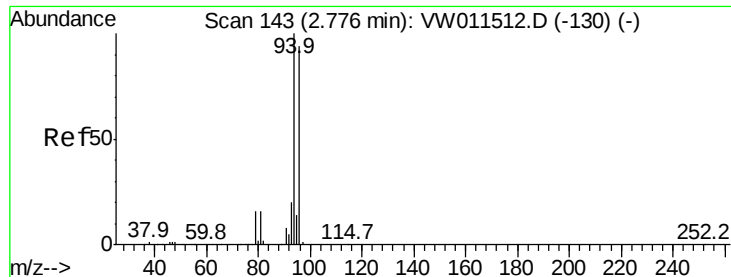
Tgt Ion: 62 Resp: 116438

Ion Ratio Lower Upper

62 100

64 32.7 25.0 37.4





#5

Bromomethane

Concen: 42.543 ug/l

RT: 2.76 min Scan# 140

Delta R.T. -0.02 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

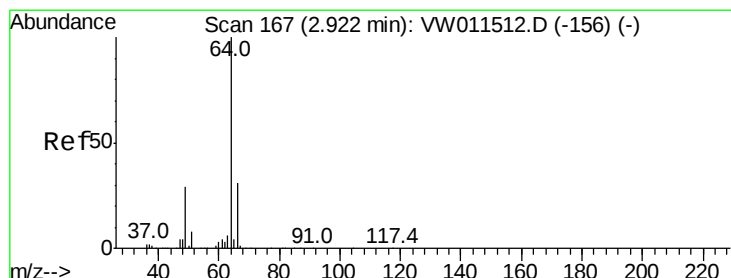
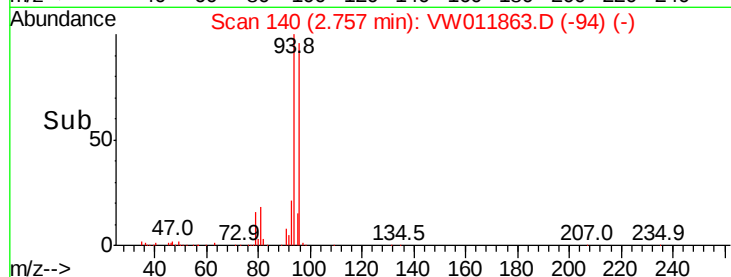
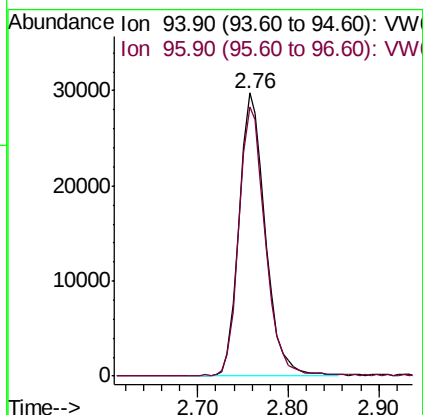
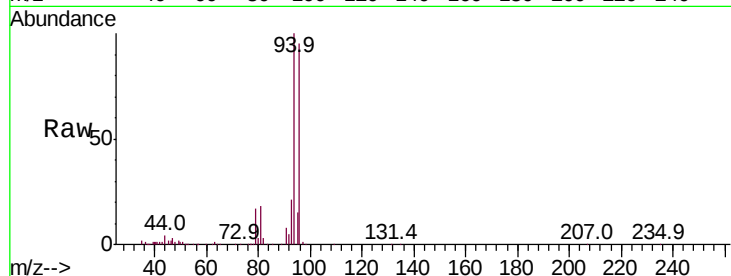
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 94 Resp: 59772

Ion Ratio Lower Upper

94 100

96 95.1 75.0 112.6



#6

Chloroethane

Concen: 49.439 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW011863.D

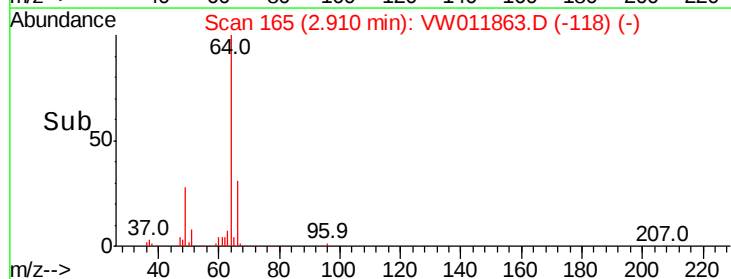
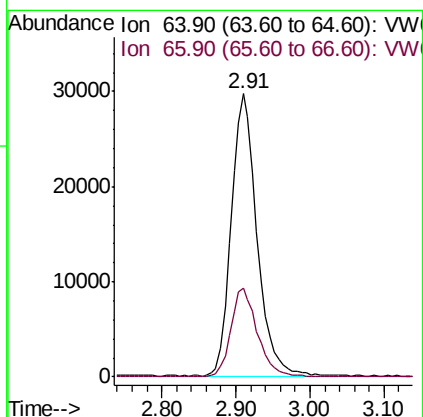
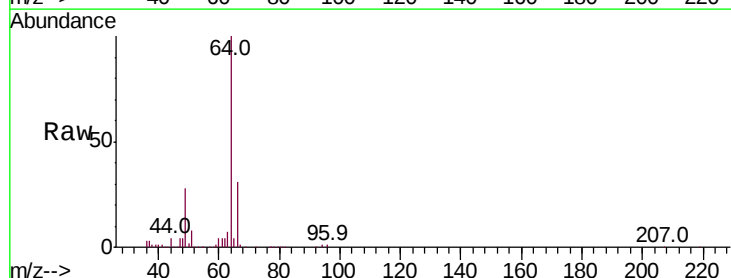
Acq: 12 Aug 2019 19:59

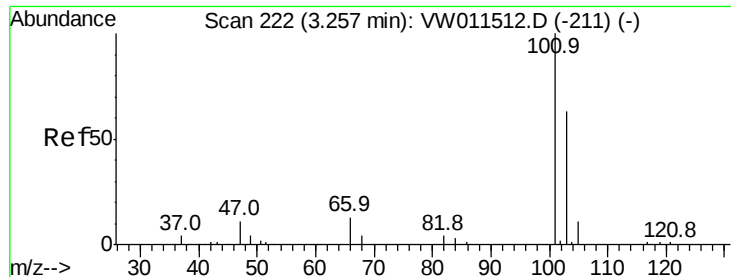
Tgt Ion: 64 Resp: 71681

Ion Ratio Lower Upper

64 100

66 31.4 24.6 36.8



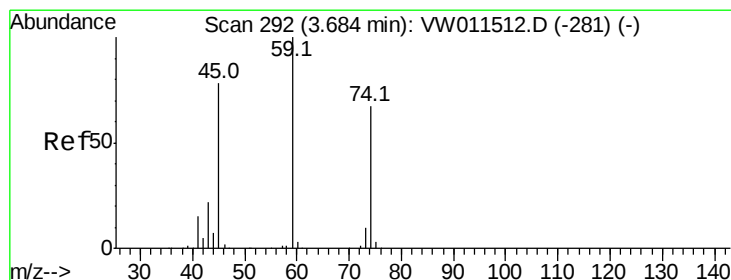
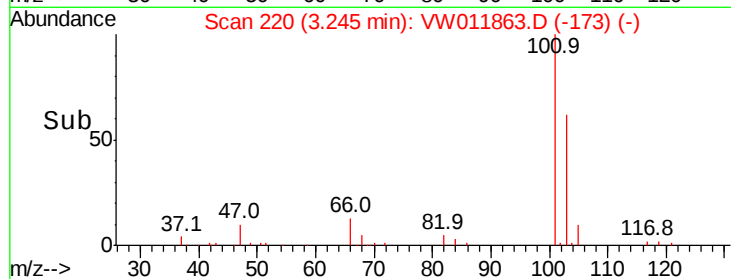
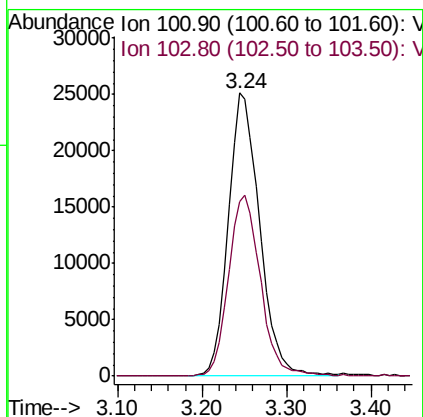
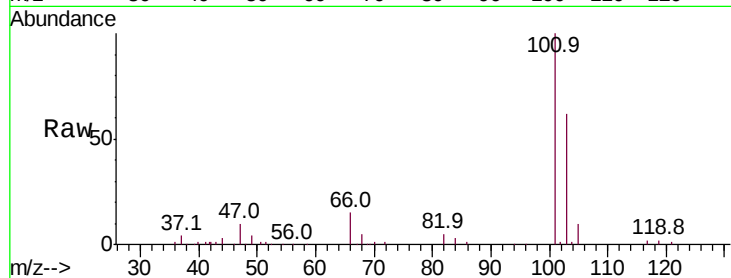


#7

Trichlorofluoromethane  
 Concen: 55.927 ug/l  
 RT: 3.24 min Scan# 220  
 Delta R.T. -0.01 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Instrument :  
 MSVOA\_W  
 ClientSampled :

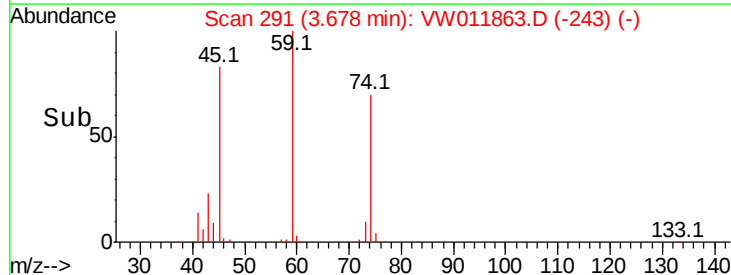
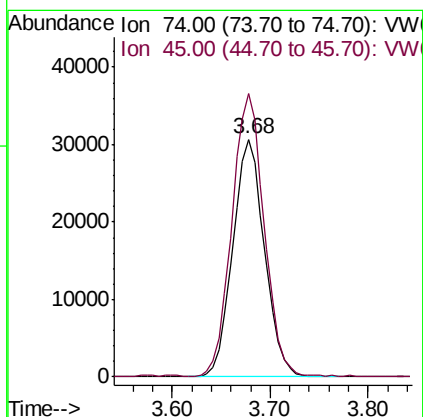
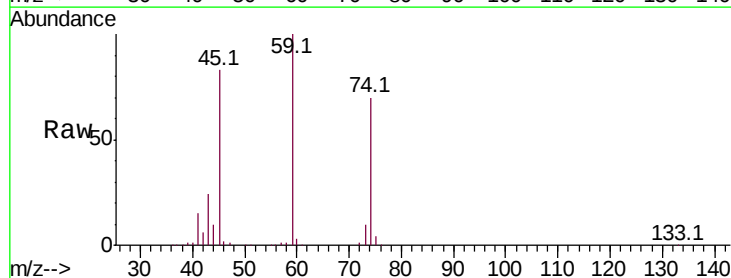
Tot Ion:101 Resp: 63443  
 Ion Ratio Lower Upper  
 101 100  
 103 61.7 50.2 75.4

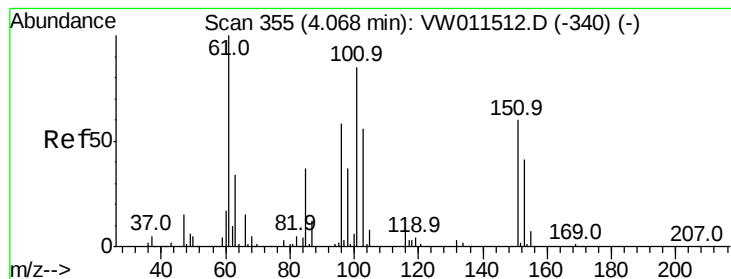


#8

Diethyl Ether  
 Concen: 53.615 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.01 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion: 74 Resp: 68958  
 Ion Ratio Lower Upper  
 74 100  
 45 120.5 59.6 178.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.369 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampleId :

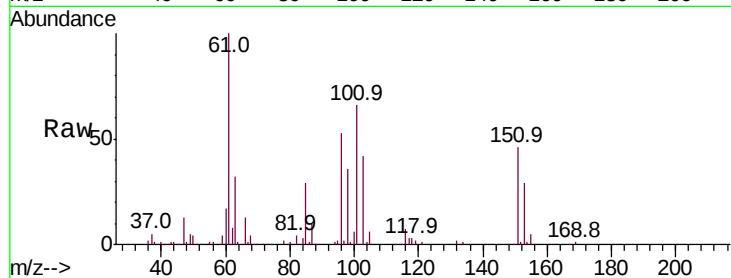
Tot Ion:101 Resp: 112692

Ion Ratio Lower Upper

101 100

85 45.9 36.6 54.8

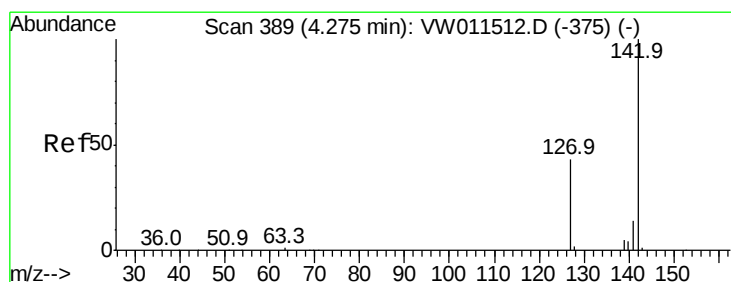
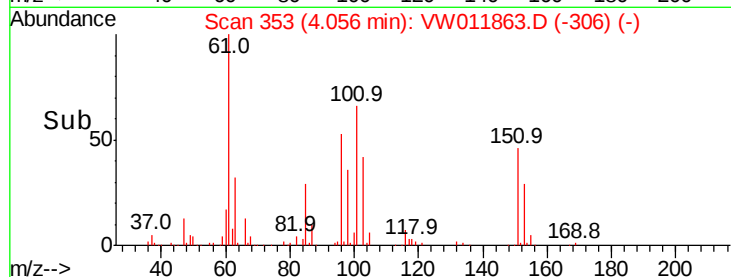
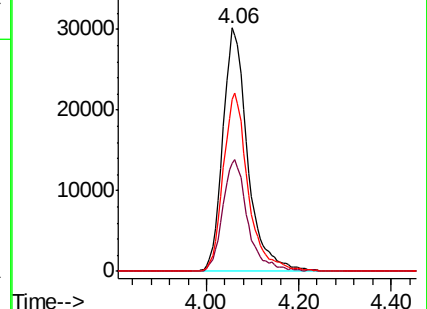
151 73.3 60.2 90.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 53.912 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

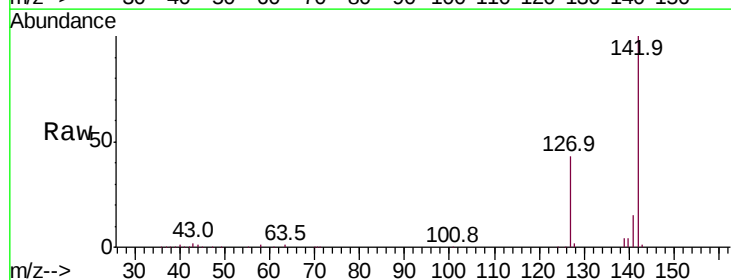
Tgt Ion:142 Resp: 163948

Ion Ratio Lower Upper

142 100

127 44.7 35.0 52.6

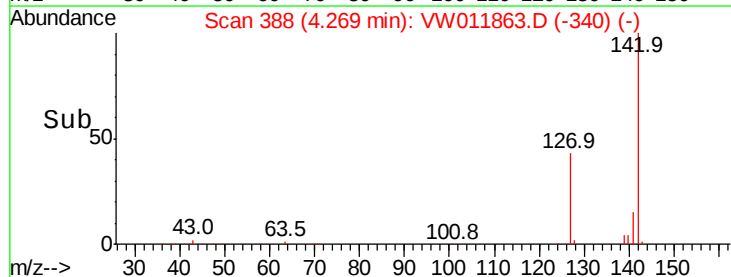
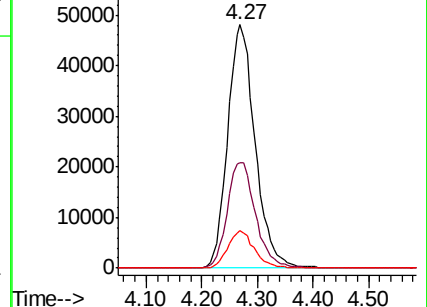
141 14.9 11.9 17.9

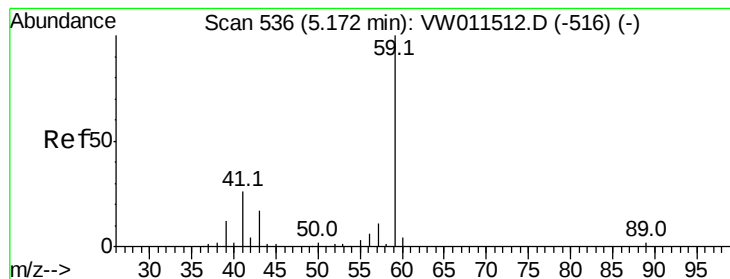


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



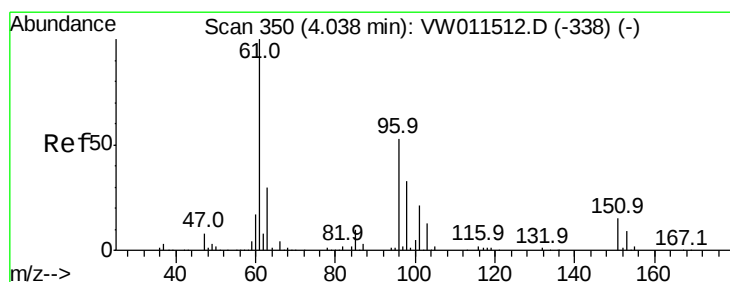
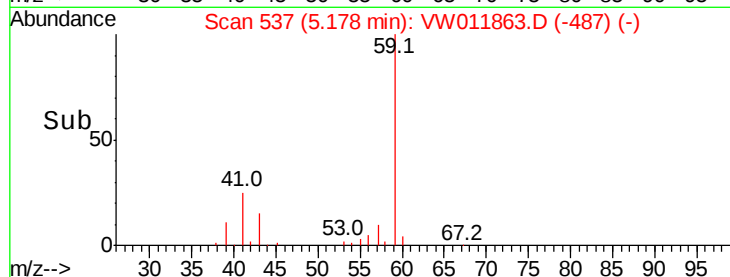
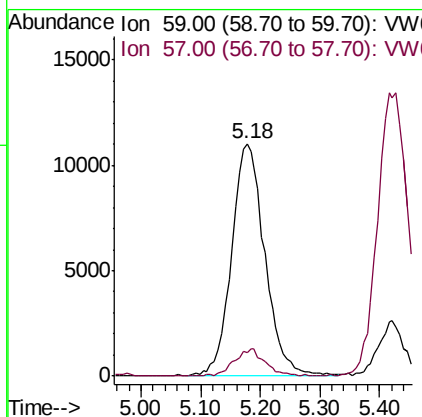
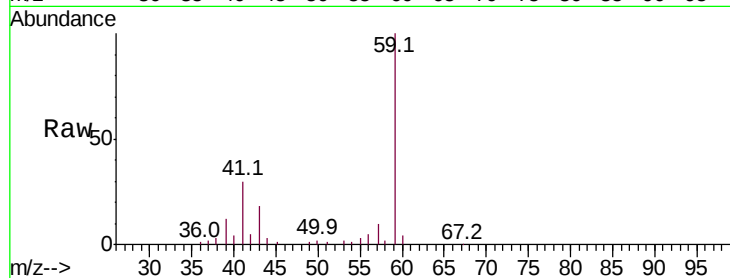


#11

Tert butyl alcohol  
 Concen: 230.131 ug/l  
 RT: 5.18 min Scan# 537  
 Delta R.T. 0.01 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

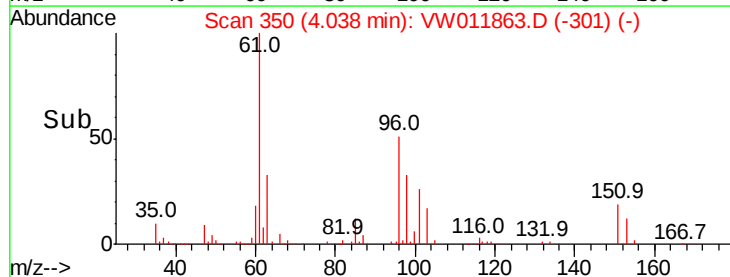
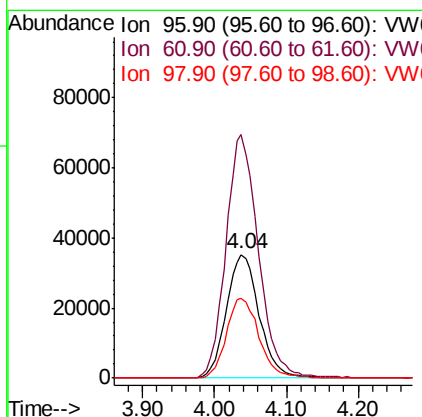
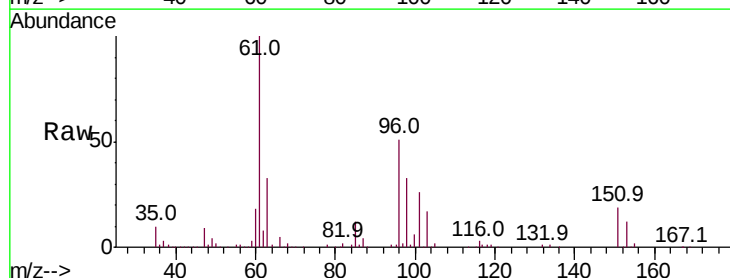
Tot Ion: 59 Resp: 42808  
 Ion Ratio Lower Upper  
 59 100  
 57 10.9 8.5 12.7

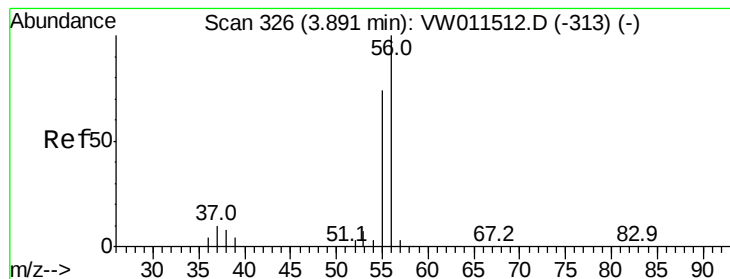


#12

1,1-Dichloroethene  
 Concen: 49.366 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion: 96 Resp: 112163  
 Ion Ratio Lower Upper  
 96 100  
 61 196.3 149.9 224.9  
 98 63.9 49.1 73.7





#13

Acrolein

Concen: 176.545 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

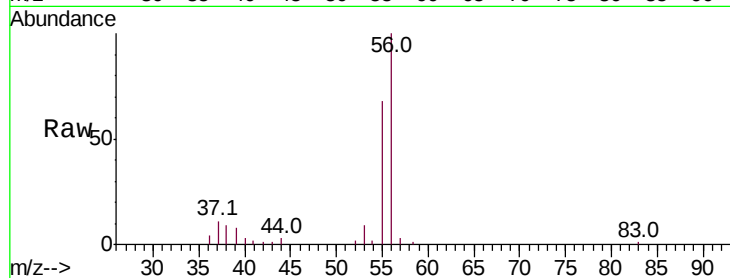
ClientSampled :

Tot Ion: 56 Resp: 31734

Ion Ratio Lower Upper

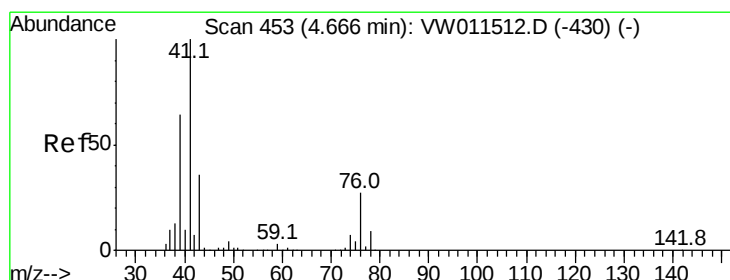
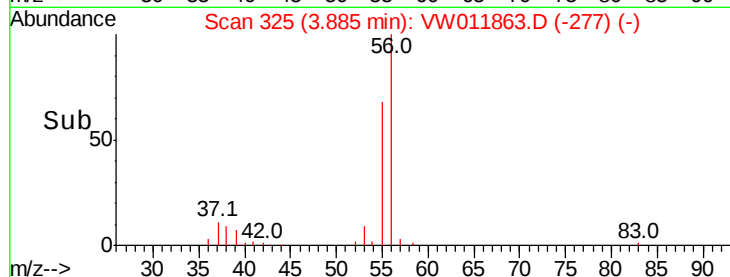
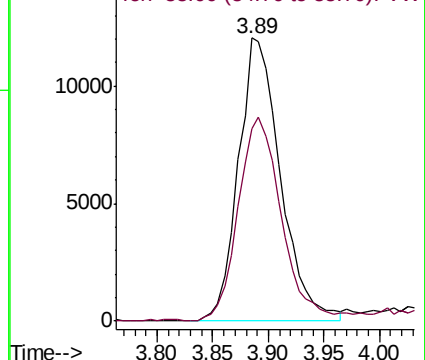
56 100

55 73.7 56.0 84.0



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 54.315 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

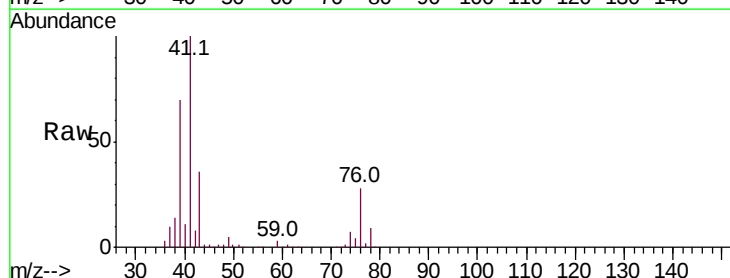
Tgt Ion: 41 Resp: 262478

Ion Ratio Lower Upper

41 100

39 67.6 52.6 78.8

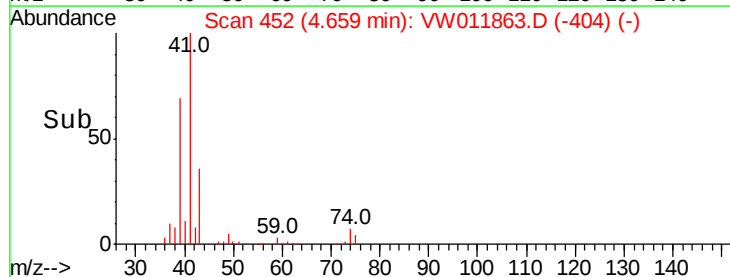
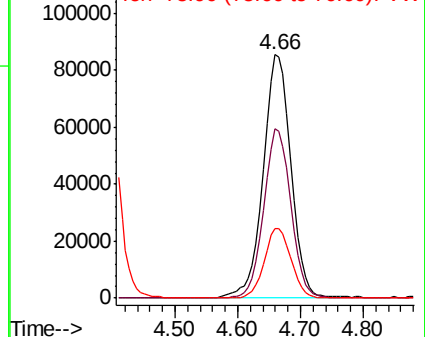
76 27.6 22.0 33.0

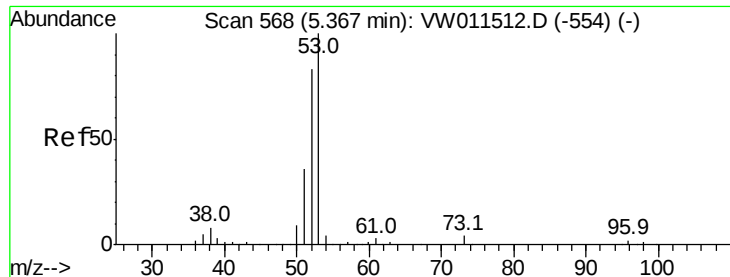


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 268.748 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampleId :

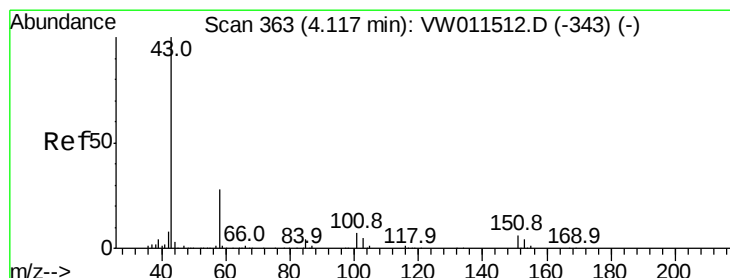
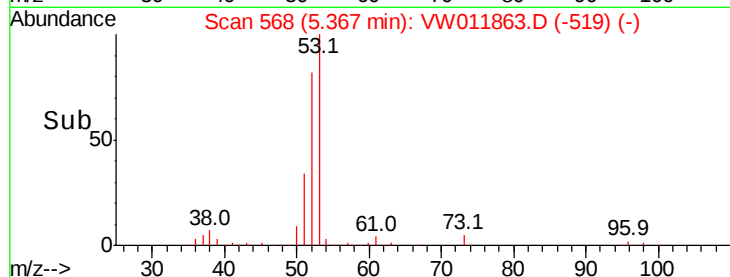
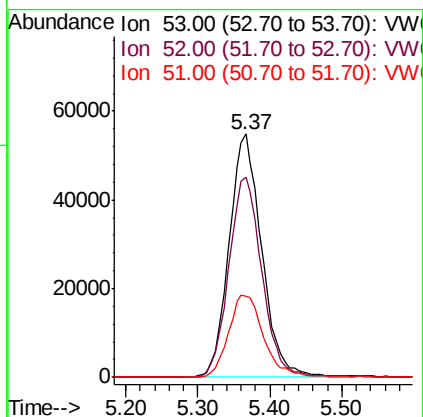
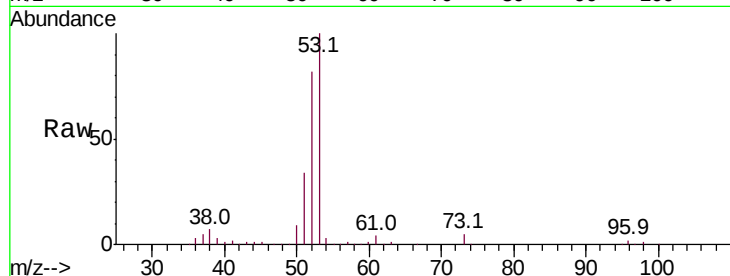
Tot Ion: 53 Resp: 172549

Ion Ratio Lower Upper

53 100

52 83.1 67.2 100.8

51 36.7 30.0 45.0



#16

Acetone

Concen: 196.798 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011863.D

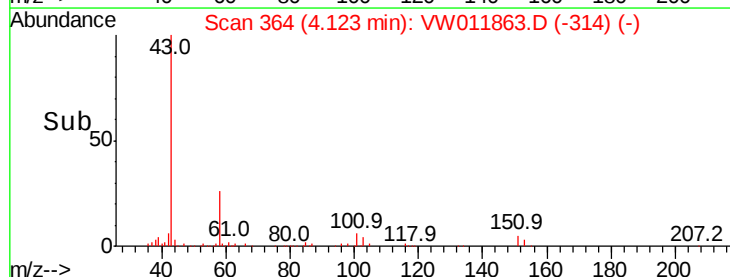
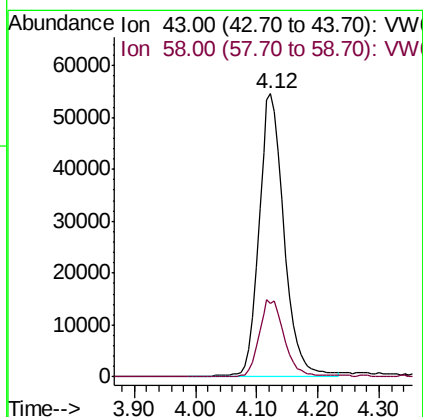
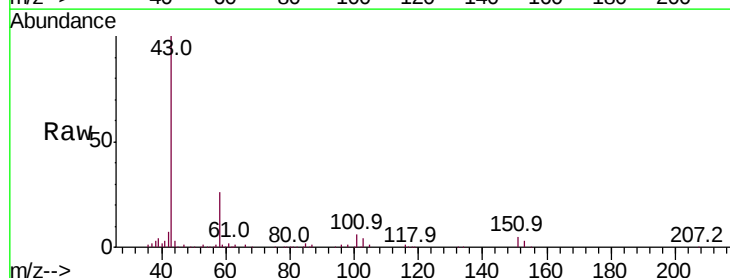
Acq: 12 Aug 2019 19:59

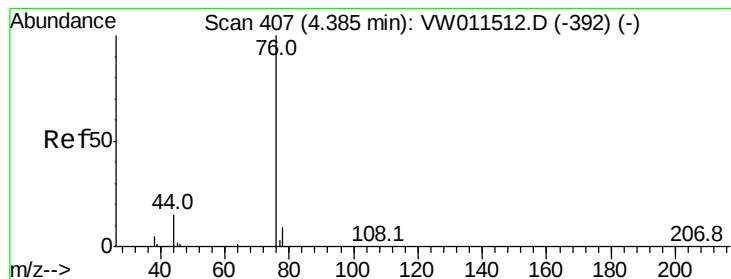
Tgt Ion: 43 Resp: 156823

Ion Ratio Lower Upper

43 100

58 25.9 22.3 33.5





#17

Carbon Disulfide

Concen: 48.640 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

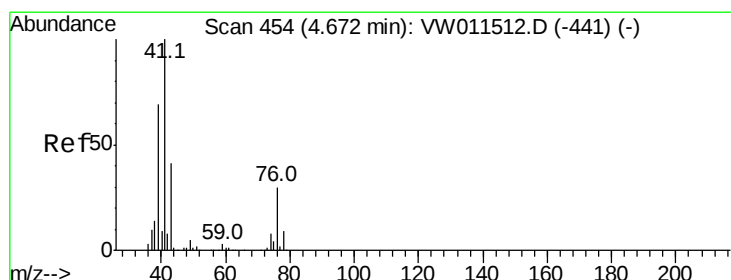
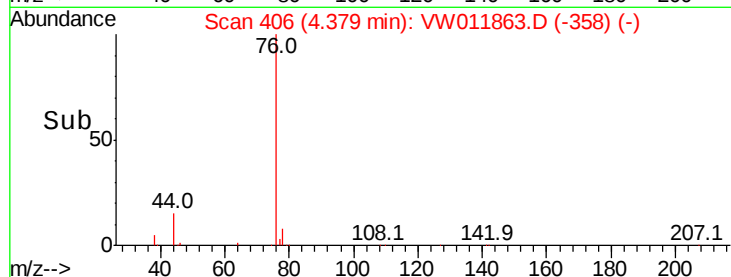
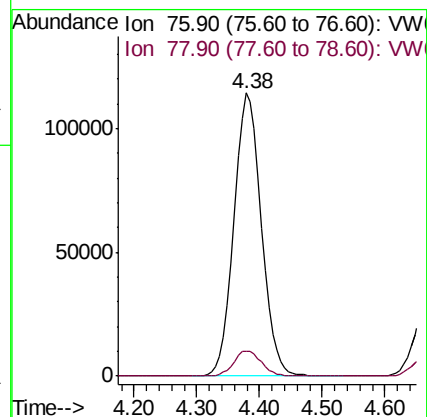
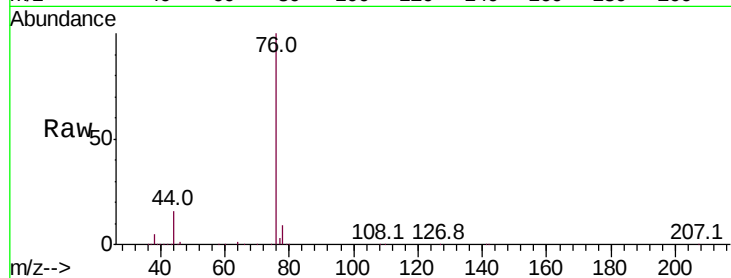
ClientSampled :

Tot Ion: 76 Resp: 345893

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7



#18

Methyl Acetate

Concen: 56.724 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW011863.D

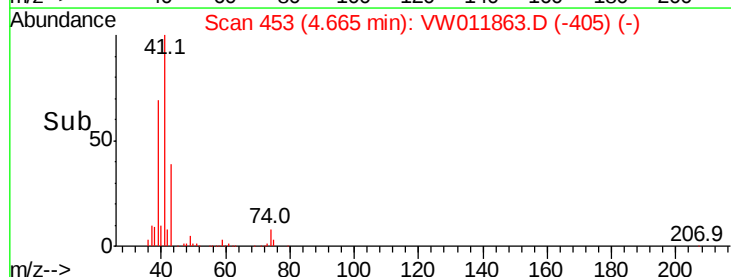
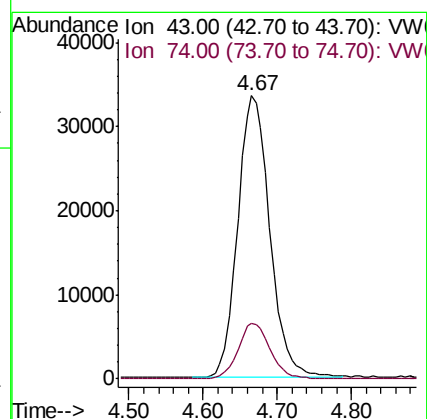
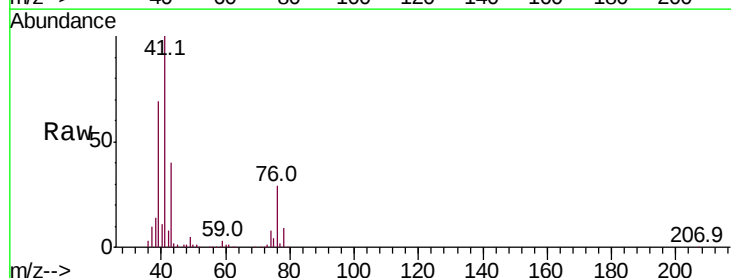
Acq: 12 Aug 2019 19:59

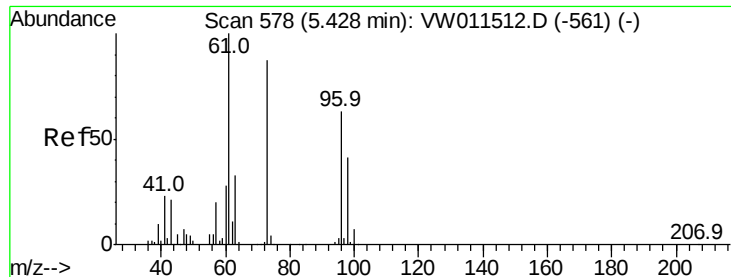
Tgt Ion: 43 Resp: 101545

Ion Ratio Lower Upper

43 100

74 19.7 15.9 23.9

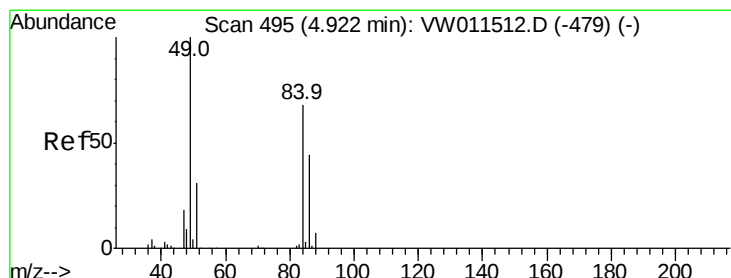
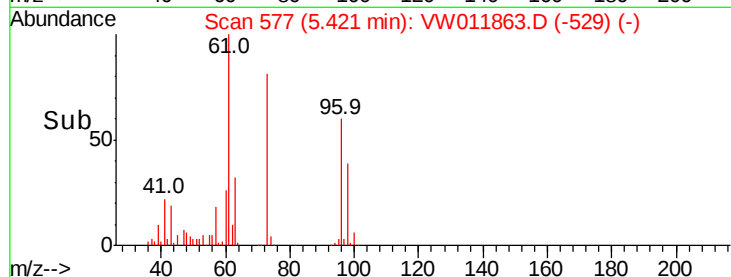
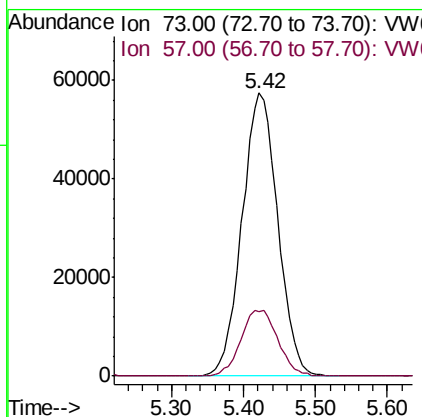
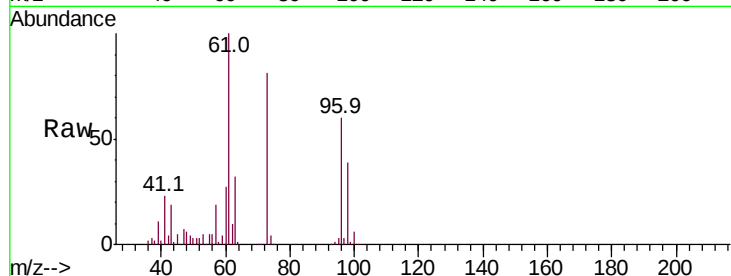




#19  
Methvl tert-butvl Ether  
Concen: 54.888 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

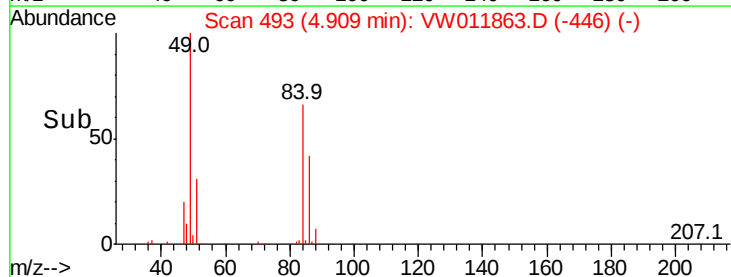
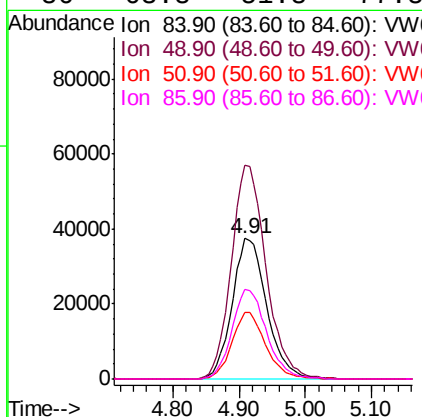
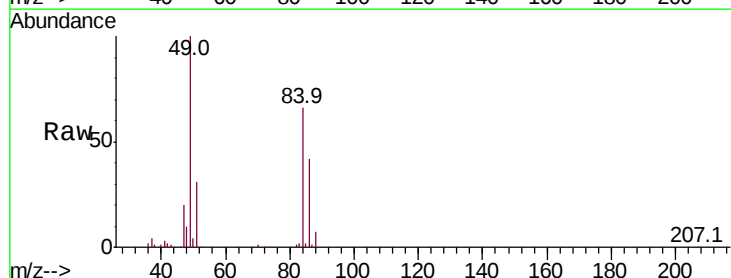
Instrument :  
MSVOA\_W  
ClientSampleId :

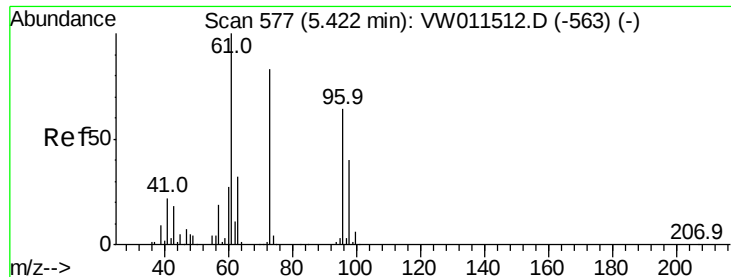
Tot Ion: 73 Resp: 197898  
Ion Ratio Lower Upper  
73 100  
57 22.9 18.4 27.6



#20  
Methylene Chloride  
Concen: 49.582 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion: 84 Resp: 136265  
Ion Ratio Lower Upper  
84 100  
49 152.0 117.8 176.6  
51 47.1 37.0 55.4  
86 63.8 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 53.739 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampled :

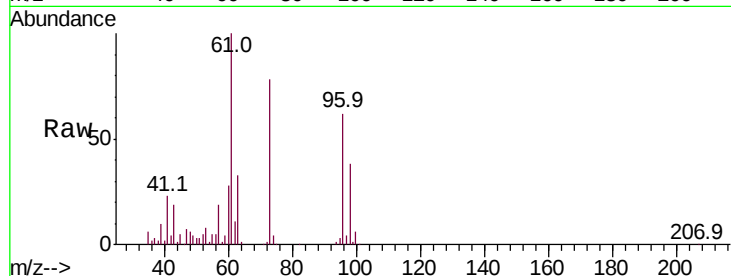
Tot Ion: 96 Resp: 131636

Ion Ratio Lower Upper

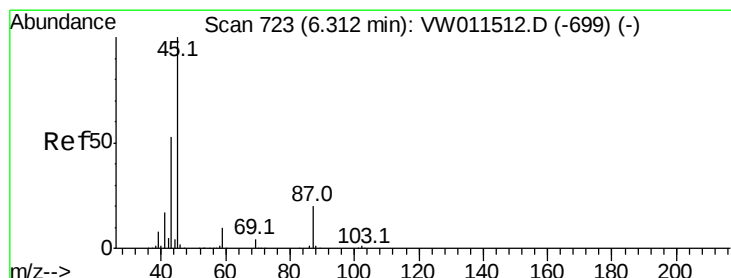
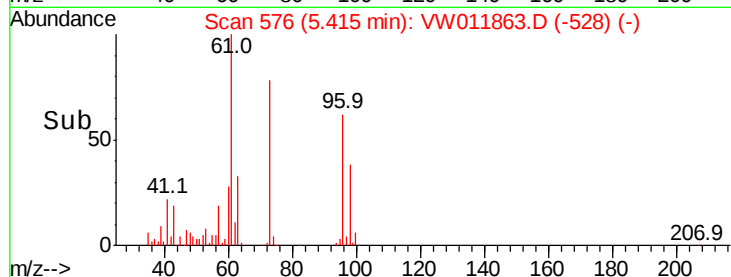
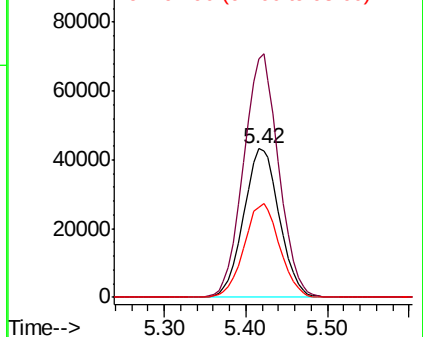
96 100

61 160.6 125.7 188.5

98 60.7 50.3 75.5



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



#22

Diisopropyl ether

Concen: 55.515 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Tgt Ion: 45 Resp: 505800

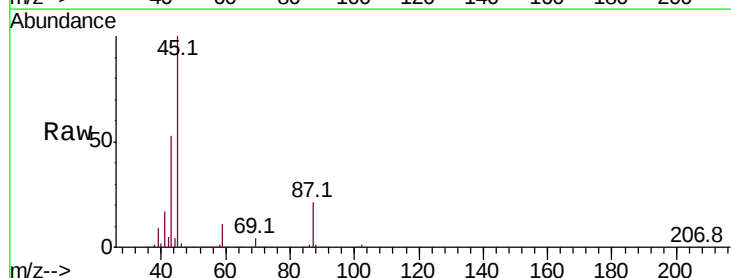
Ion Ratio Lower Upper

45 100

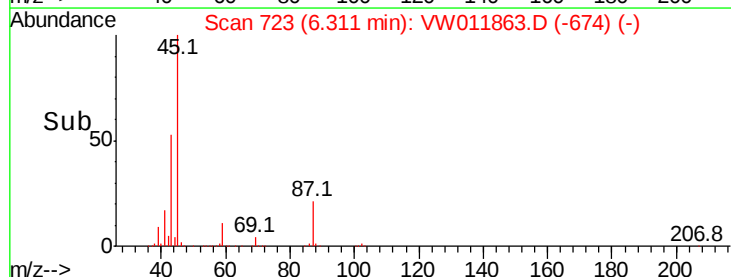
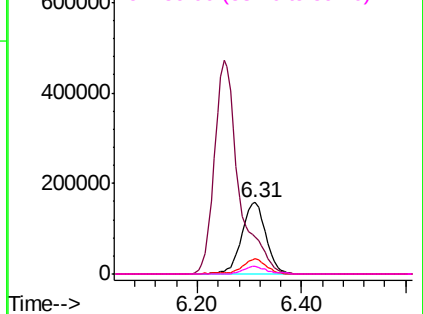
43 52.5 42.6 63.8

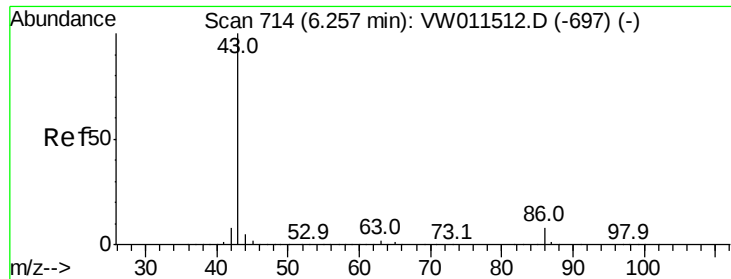
87 20.7 16.4 24.6

59 10.5 8.2 12.2



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





#23

Vinyl Acetate

Concen: 269.433 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

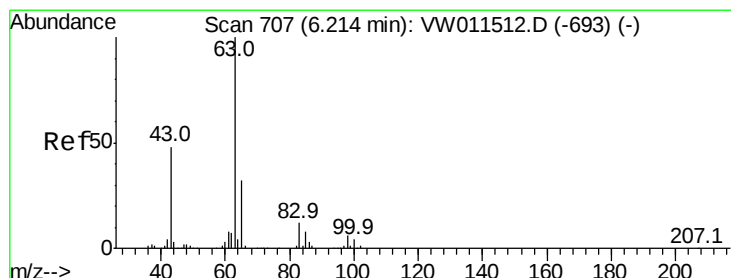
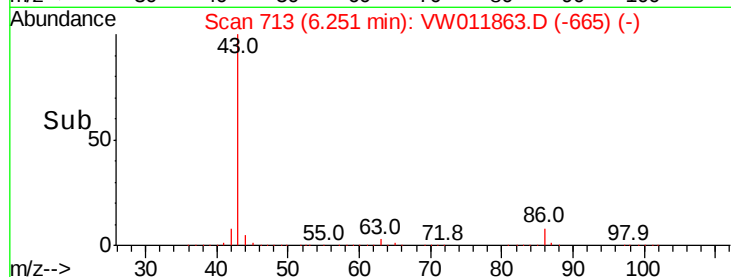
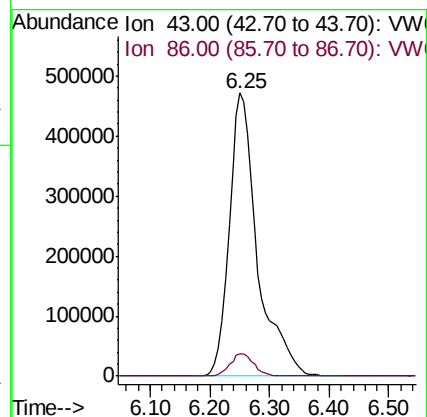
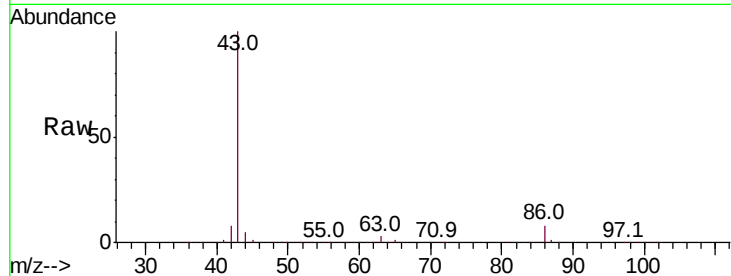
ClientSampleId :

Tot Ion: 43 Resp: 1542490

Ion Ratio Lower Upper

43 100

86 8.0 6.5 9.7



#24

1,1-Dichloroethane

Concen: 55.218 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

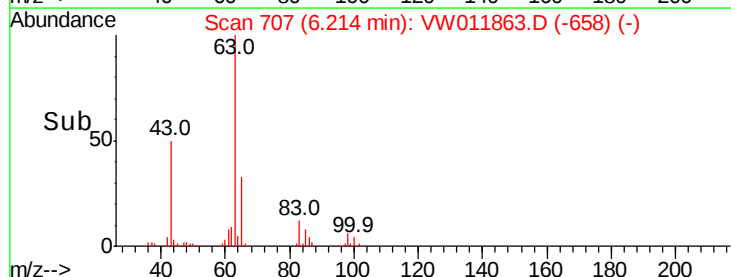
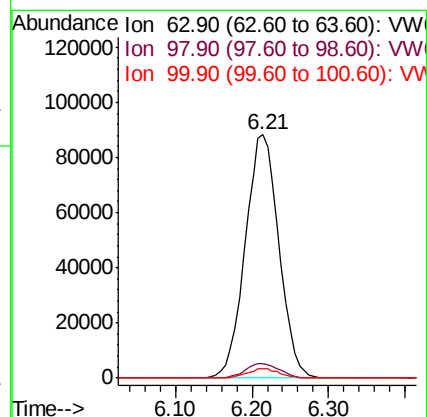
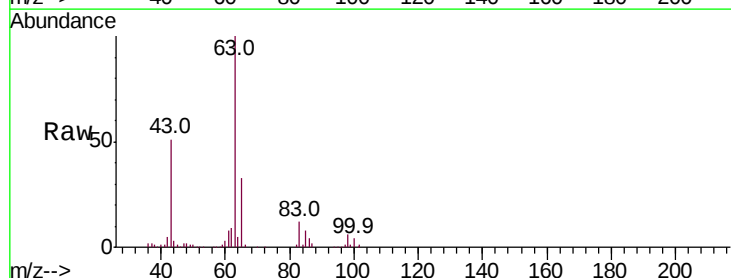
Tgt Ion: 63 Resp: 269440

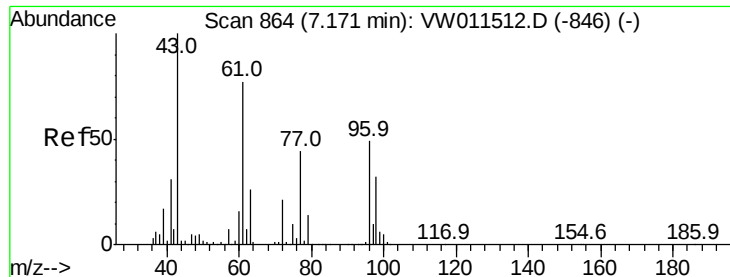
Ion Ratio Lower Upper

63 100

98 6.1 2.9 8.8

100 3.9 2.1 6.3





#25

2-Butanone

Concen: 231.009 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

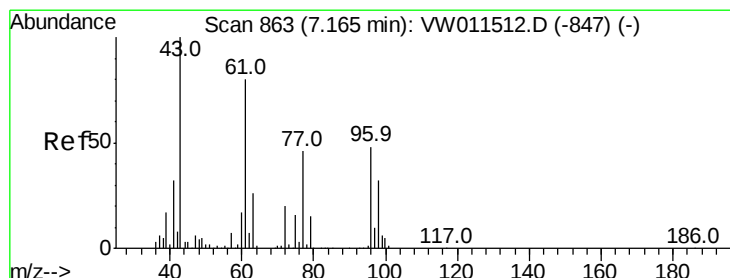
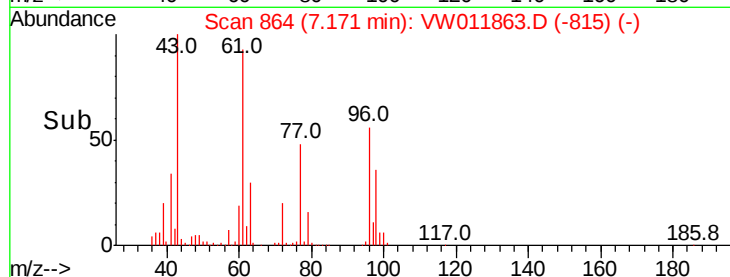
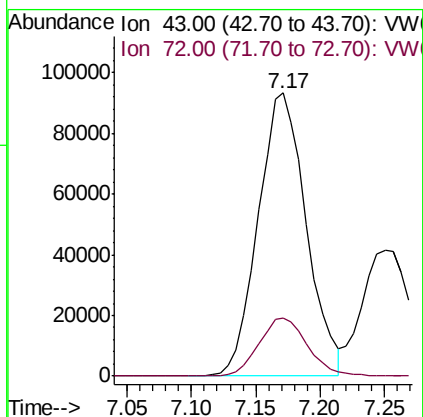
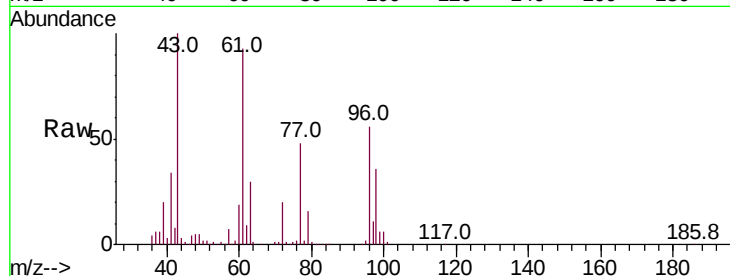
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 240880

Ion Ratio Lower Upper

43 100

72 20.4 16.6 24.8



#26

2,2-Dichloropropane

Concen: 46.076 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW011863.D

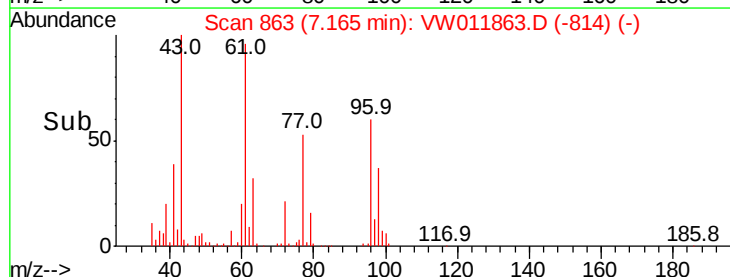
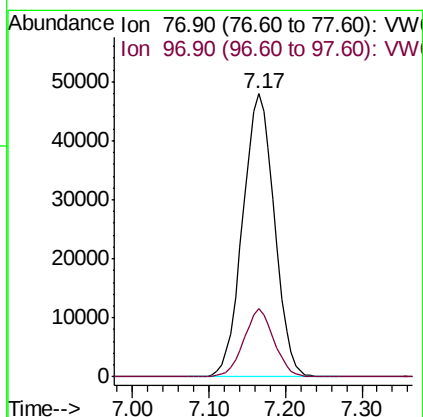
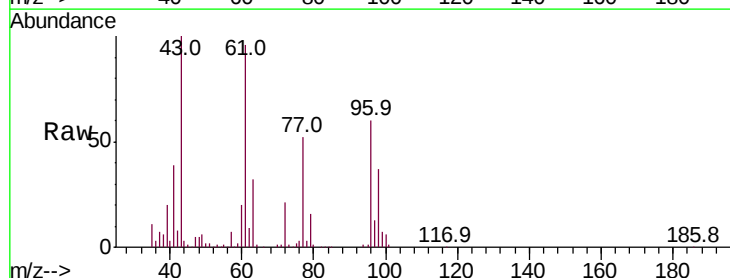
Acq: 12 Aug 2019 19:59

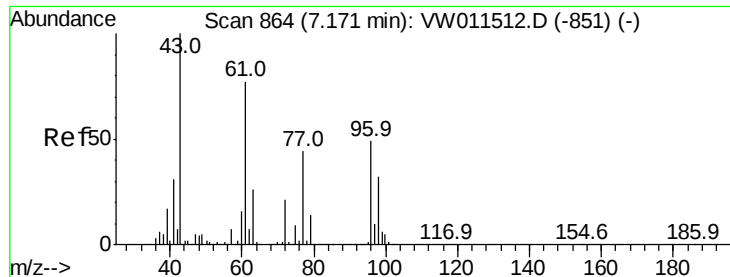
Tgt Ion: 77 Resp: 138269

Ion Ratio Lower Upper

77 100

97 22.8 10.8 32.4



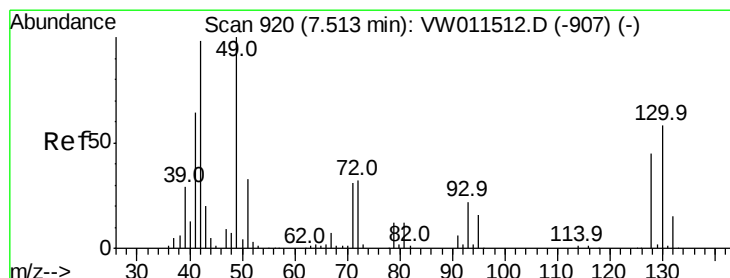
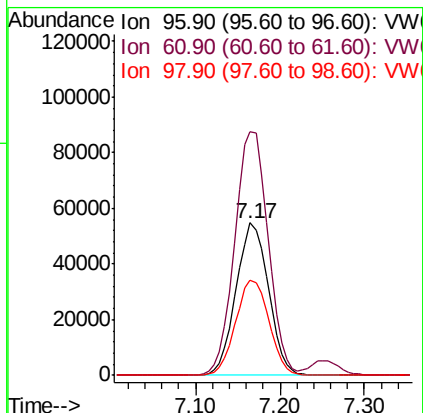
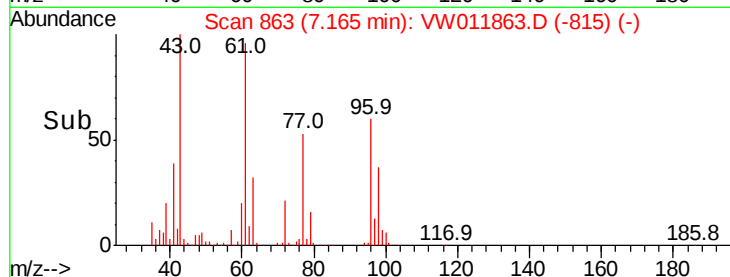
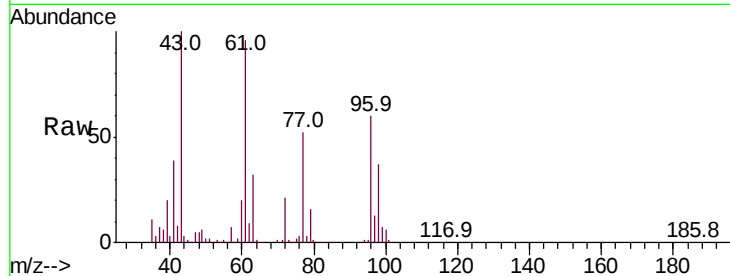


#27

cis-1,2-Dichloroethene  
Concen: 52.977 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Instrument :  
MSVOA\_W  
ClientSampled :

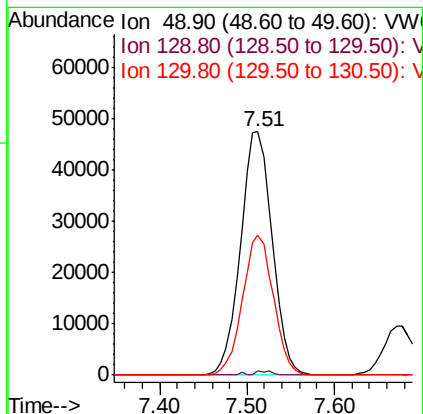
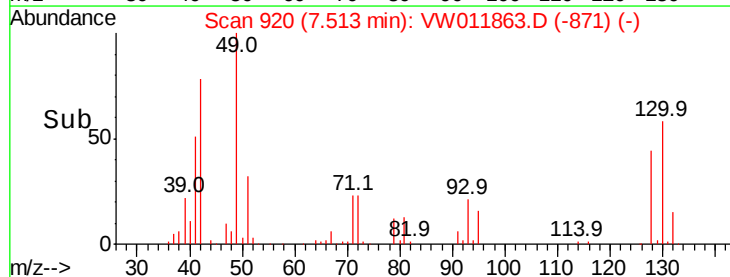
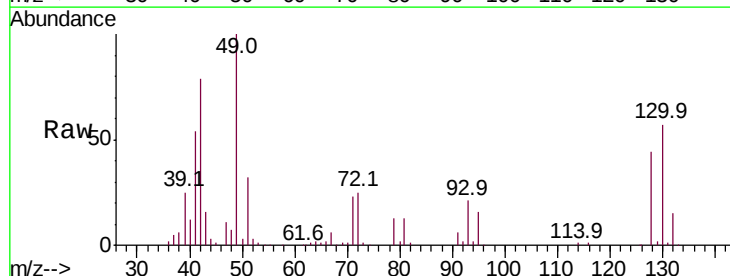
Tot Ion: 96 Resp: 142824  
Ion Ratio Lower Upper  
96 100  
61 164.2 0.0 328.4  
98 64.5 0.0 128.8

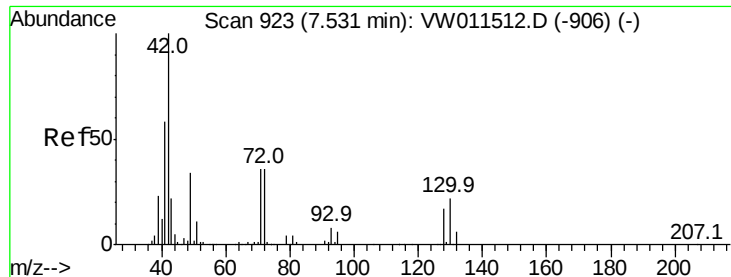


#28

Bromochloromethane  
Concen: 55.281 ug/l  
RT: 7.51 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion: 49 Resp: 119730  
Ion Ratio Lower Upper  
49 100  
129 0.9 0.0 1.0  
130 56.1 46.3 69.5

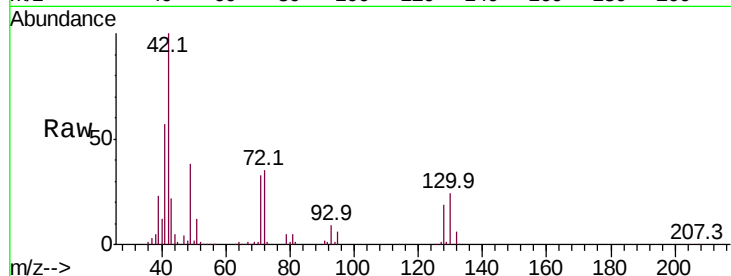




#29  
Tetrahydrofuran  
Concen: 265.473 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Instrument :  
MSVOA\_W  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 34.4  | 27.1  | 40.7  |
| 71      | 31.7  | 26.2  | 39.4  |

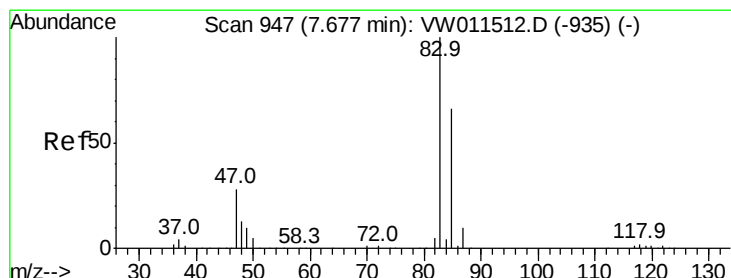
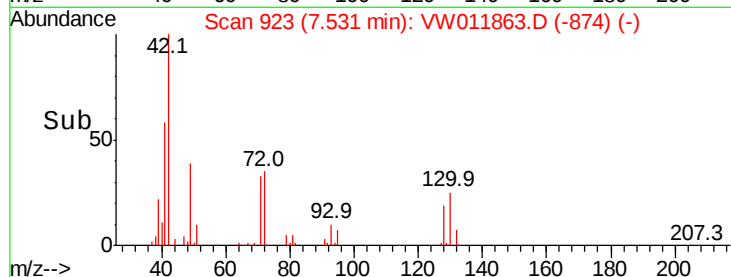
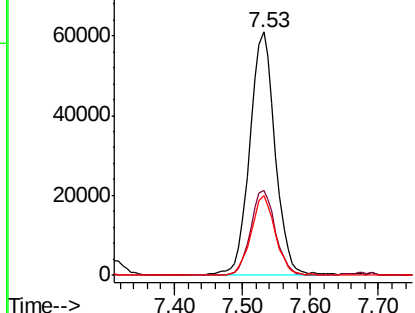


Abundance

Ion 42.00 (41.70 to 42.70): VW

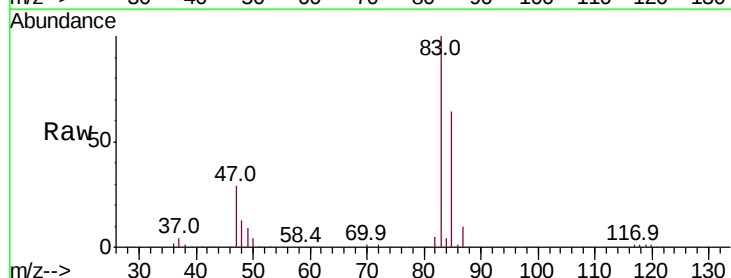
Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



#30  
Chloroform  
Concen: 54.771 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

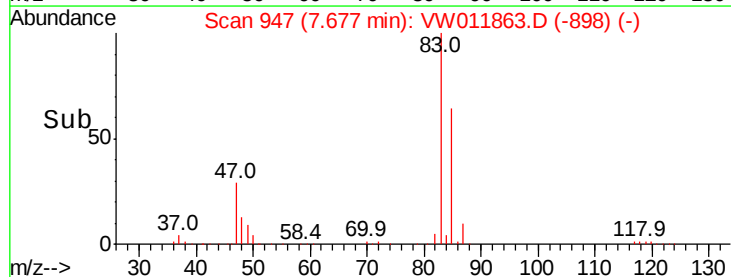
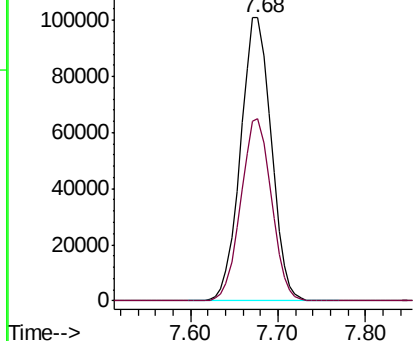
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.5  | 52.5  | 78.7  |

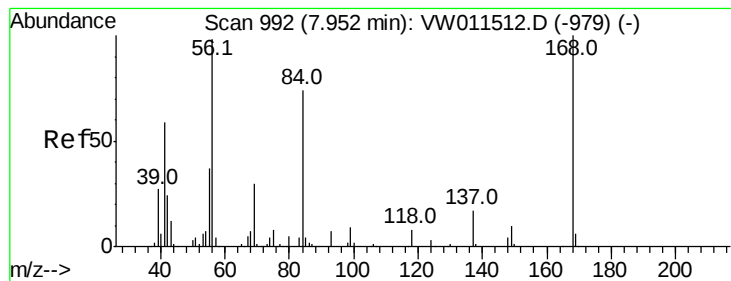


Abundance

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 49.965 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :  
MSVOA\_W  
ClientSampleId :

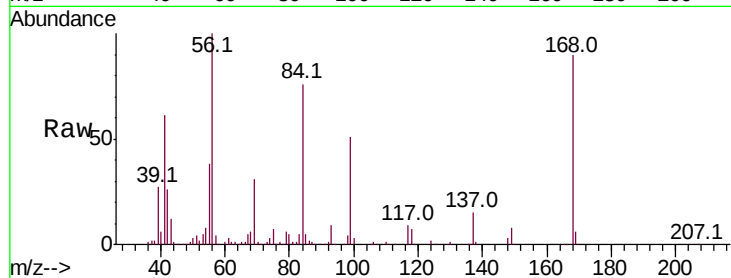
Tot Ion: 56 Resp: 234033

Ion Ratio Lower Upper

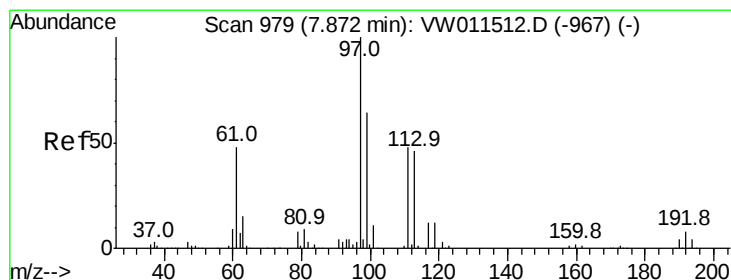
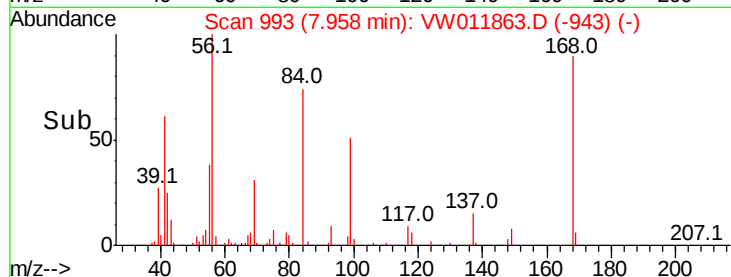
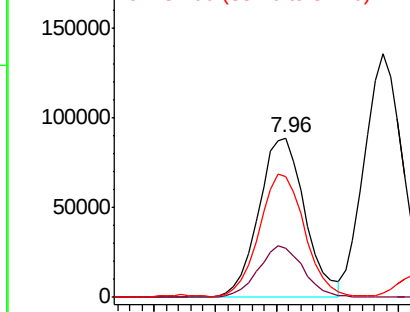
56 100

69 30.7 24.3 36.5

84 74.7 60.4 90.6



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



#32

1,1,1-Trichloroethane

Concen: 55.656 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

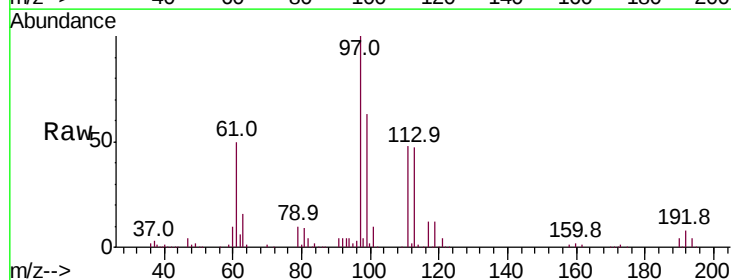
Tgt Ion: 97 Resp: 190811

Ion Ratio Lower Upper

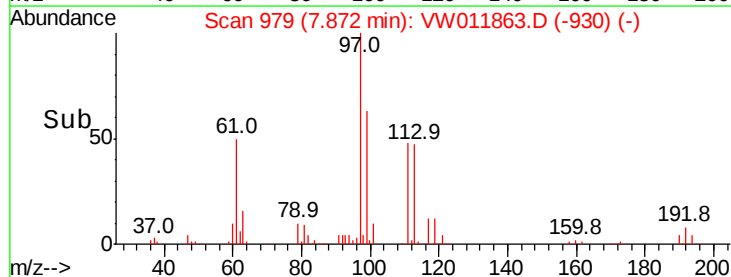
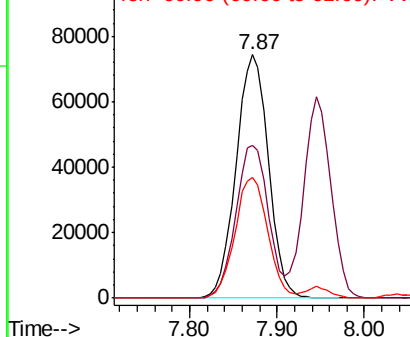
97 100

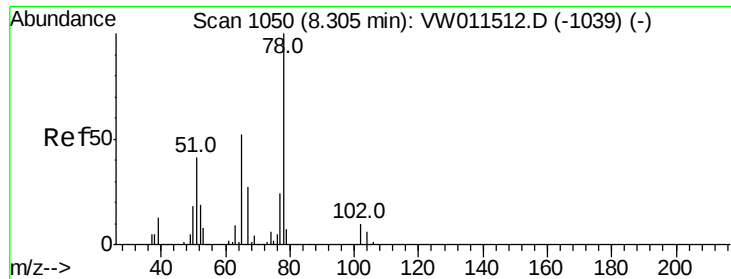
99 63.4 51.0 76.6

61 50.3 39.8 59.6



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

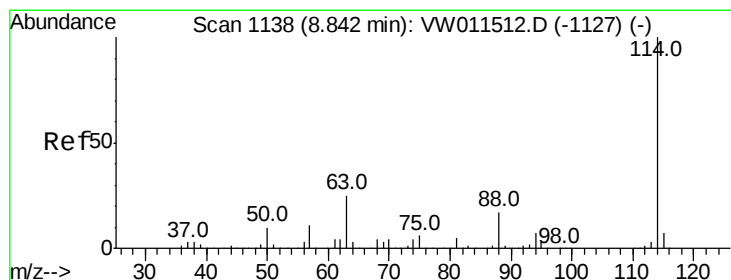
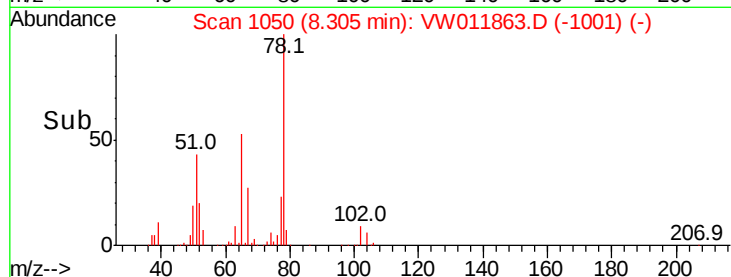
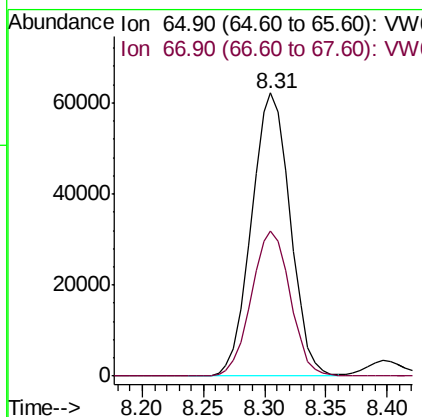
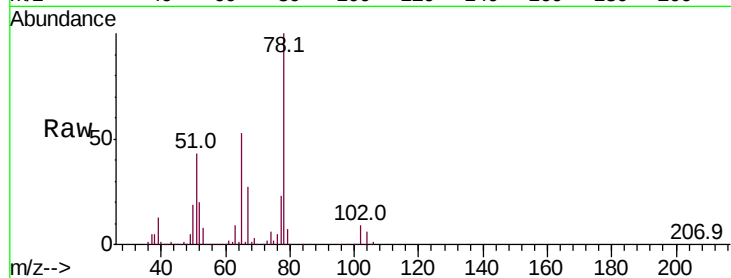




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.733 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

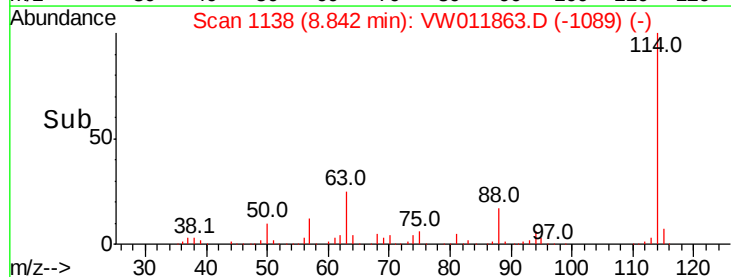
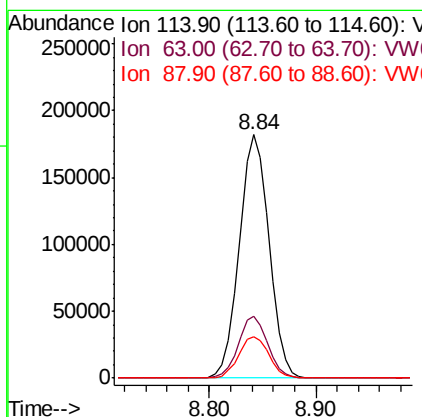
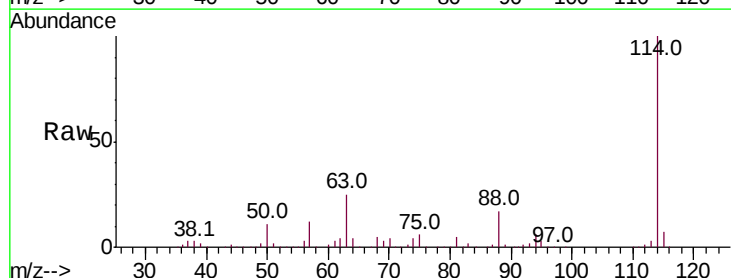
Instrument :  
 MSVOA\_W  
 ClientSampleId :

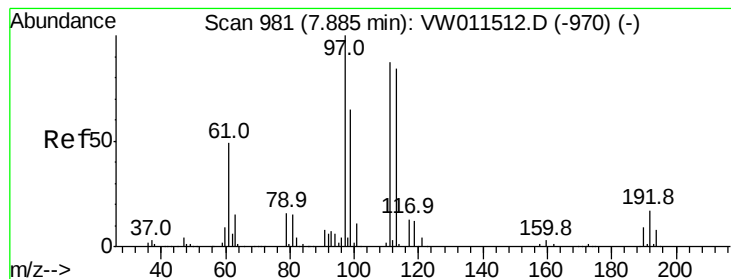
Tot Ion: 65 Resp: 137113  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion: 114 Resp: 357979  
 Ion Ratio Lower Upper  
 114 100  
 63 25.4 0.0 49.2  
 88 17.0 0.0 33.8





#35

Dibromofluoromethane

Concen: 54.517 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampleId :

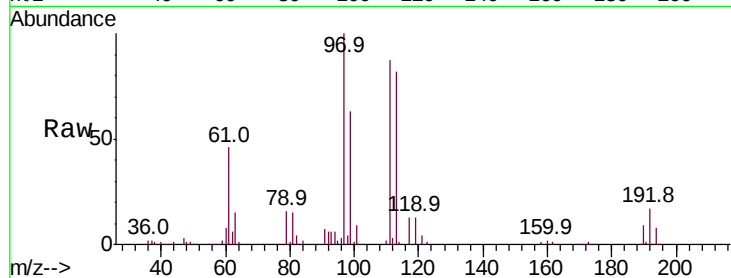
Tot Ion:113 Resp: 109487

Ion Ratio Lower Upper

113 100

111 103.1 82.7 124.1

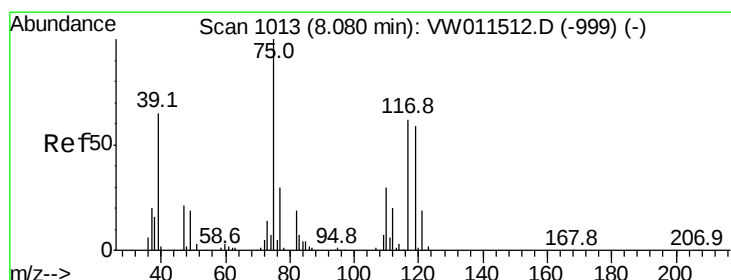
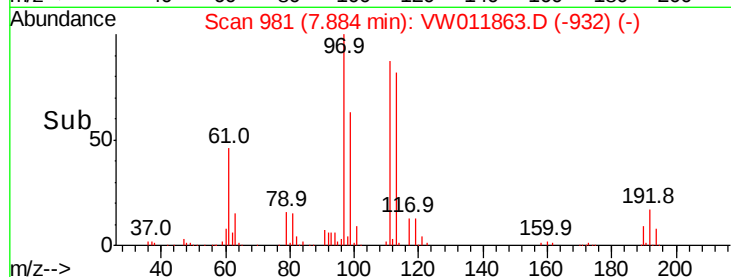
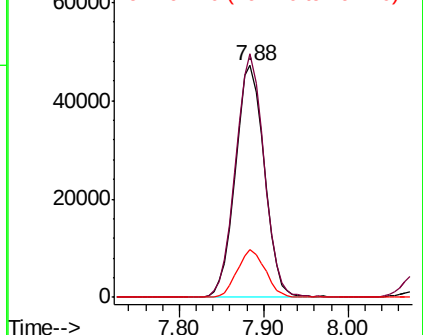
192 19.9 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 53.169 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

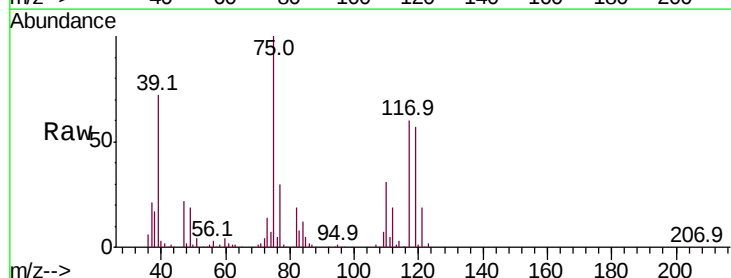
Tgt Ion: 75 Resp: 197913

Ion Ratio Lower Upper

75 100

110 31.4 15.6 46.8

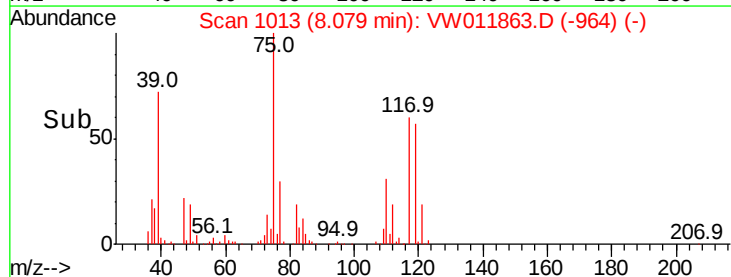
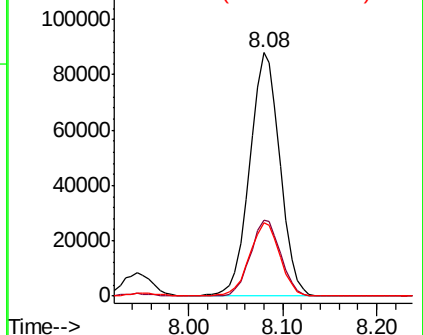
77 30.7 24.3 36.5

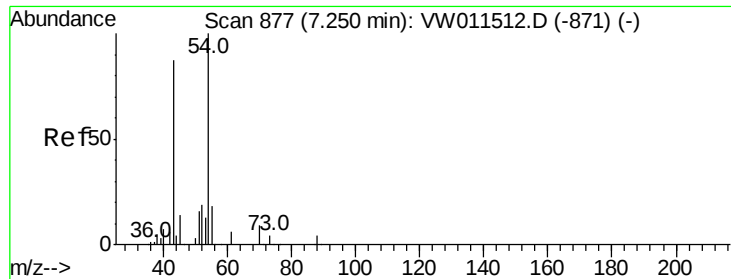


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

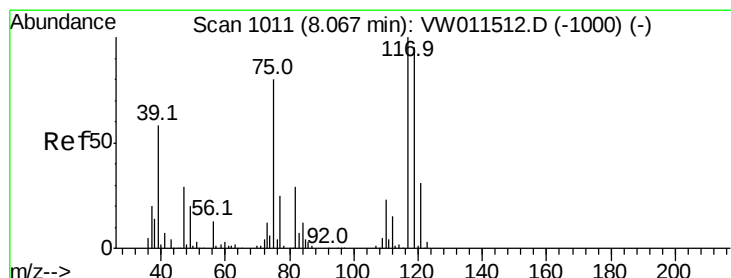
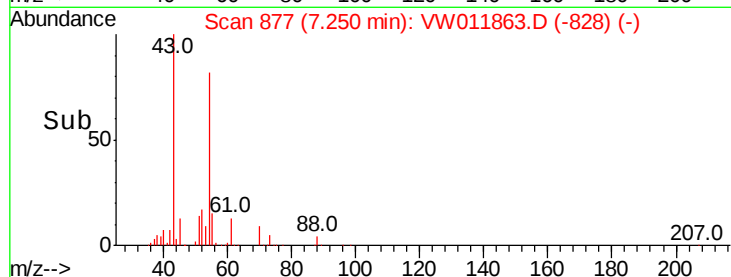
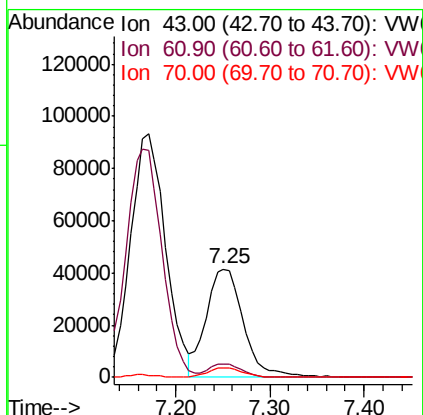
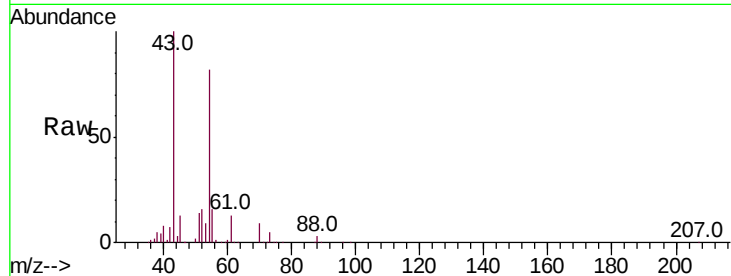




#37  
Ethyl Acetate  
Concen: 52.450 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

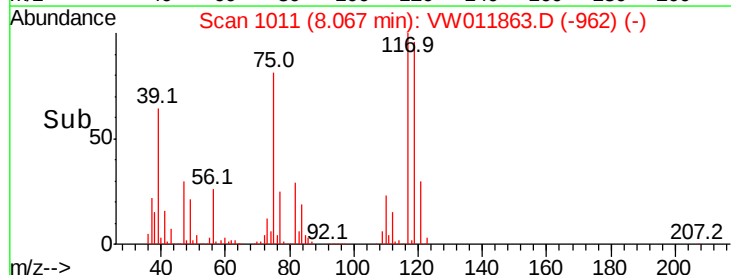
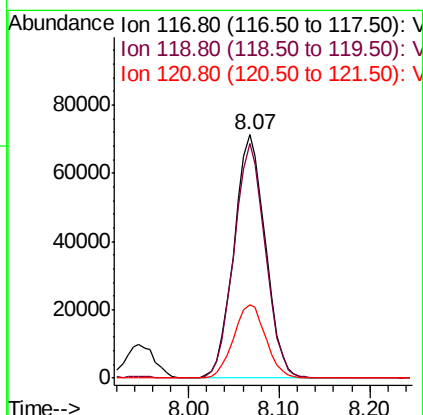
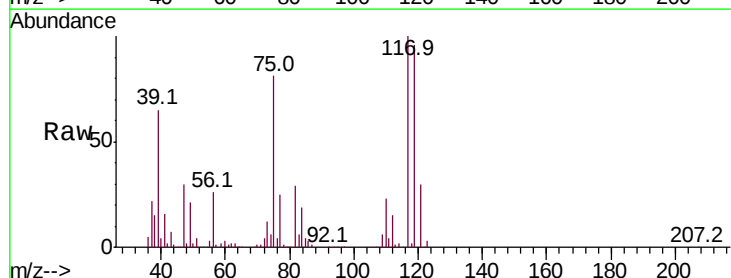
Instrument :  
MSVOA\_W  
ClientSampled :

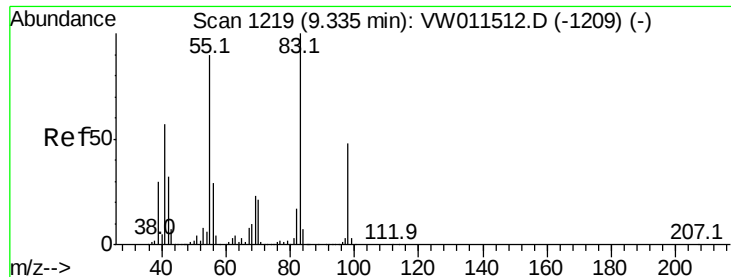
Tot Ion: 43 Resp: 112324  
Ion Ratio Lower Upper  
43 100  
61 11.8 8.8 13.2  
70 8.5 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 53.865 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion: 117 Resp: 171645  
Ion Ratio Lower Upper  
117 100  
119 96.2 75.8 113.6  
121 30.0 24.7 37.1

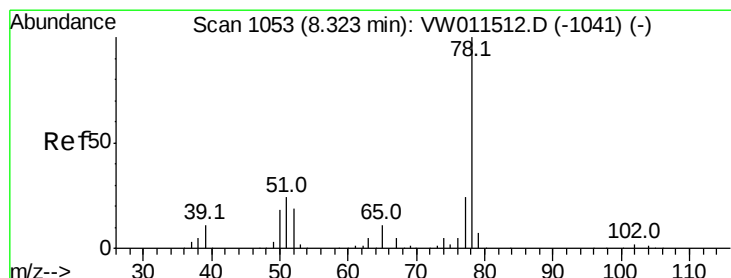
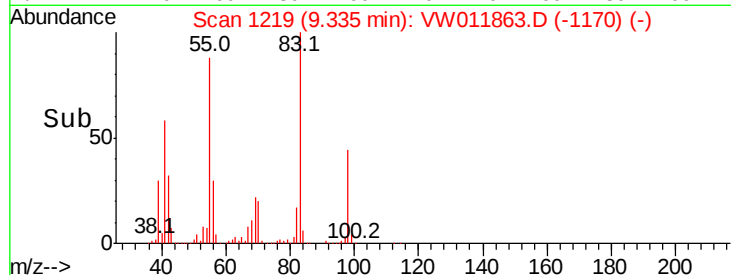
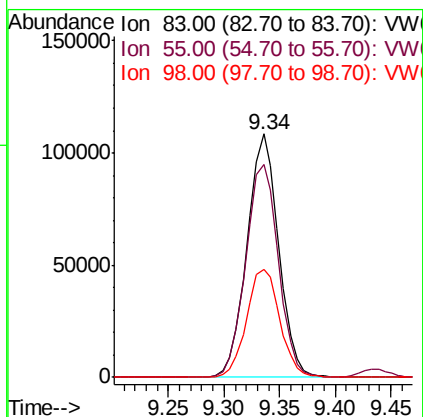
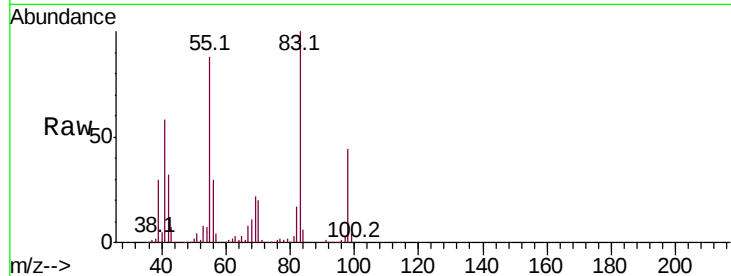




#39  
Methvlcvclohexane  
Concen: 52.499 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

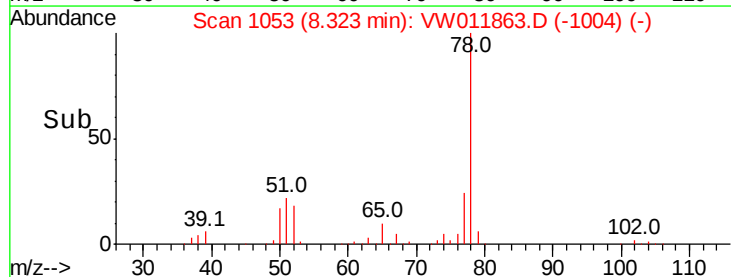
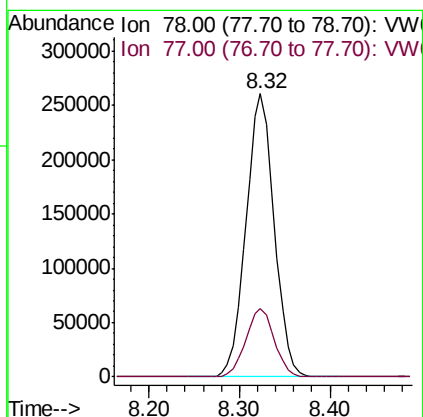
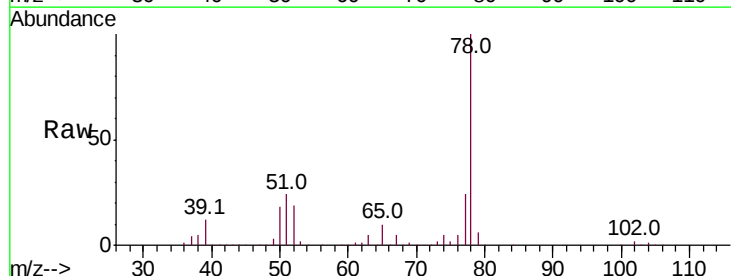
Instrument :  
MSVOA\_W  
ClientSampled :

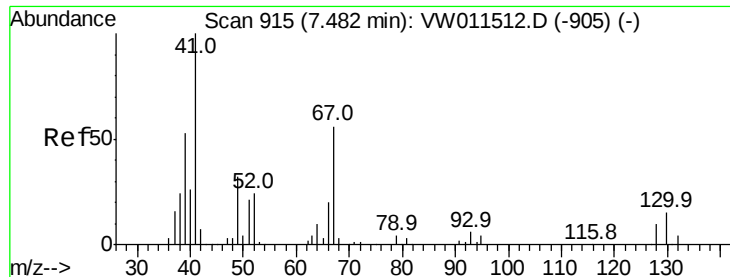
| Tot Ion   | 83    | Resp | 215179 |
|-----------|-------|------|--------|
| Ion Ratio | 100   |      |        |
| Lower     | 72.1  |      |        |
| Upper     | 108.1 |      |        |
| 83        | 87.6  |      |        |
| 55        | 44.5  |      |        |
| 98        | 38.6  |      |        |



#40  
Benzene  
Concen: 53.655 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

| Tgt Ion   | 78   | Resp | 559428 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     | 19.4 |      |        |
| Upper     | 29.0 |      |        |
| 78        | 24.3 |      |        |
| 77        |      |      |        |





#41

Methacrylonitrile

Concen: 52.327 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 41 Resp: 66987

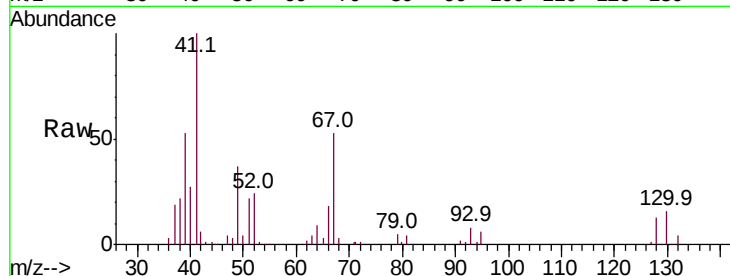
Ion Ratio Lower Upper

41 100

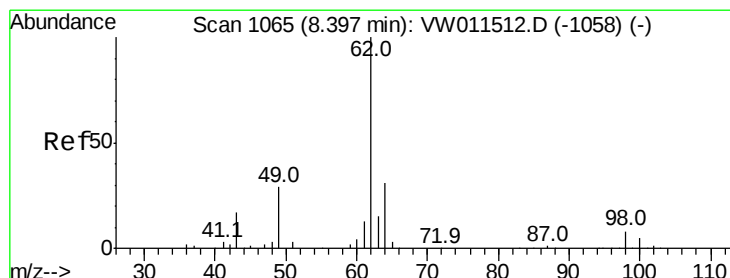
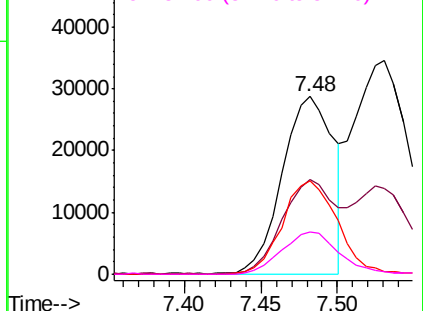
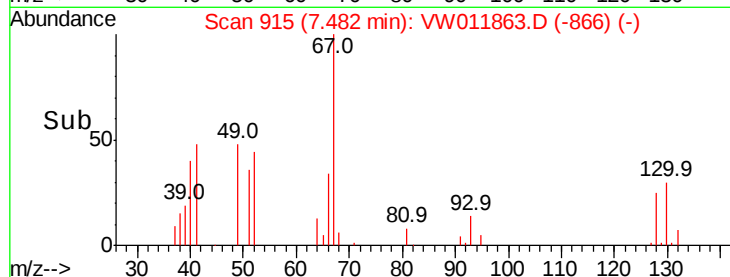
39 53.2 43.0 64.4

67 57.0 47.5 71.3

52 27.1 21.0 31.6



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



#42

1,2-Dichloroethane

Concen: 54.438 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW011863.D

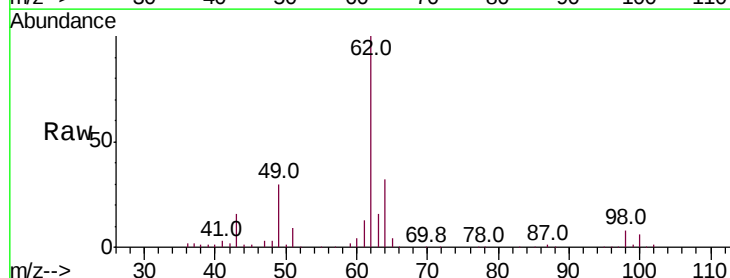
Acq: 12 Aug 2019 19:59

Tgt Ion: 62 Resp: 177706

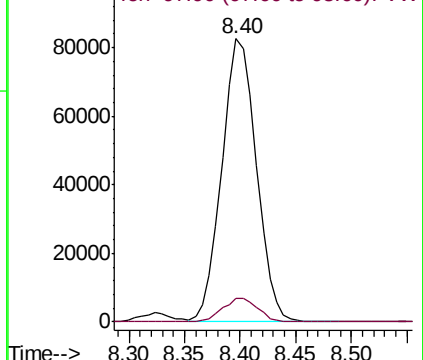
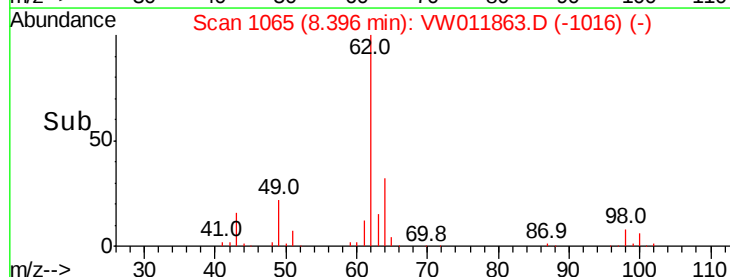
Ion Ratio Lower Upper

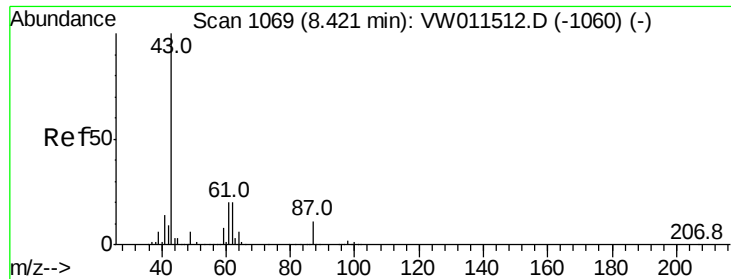
62 100

98 8.5 0.0 16.8



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





#43

Isopropyl Acetate

Concen: 53.464 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampled :

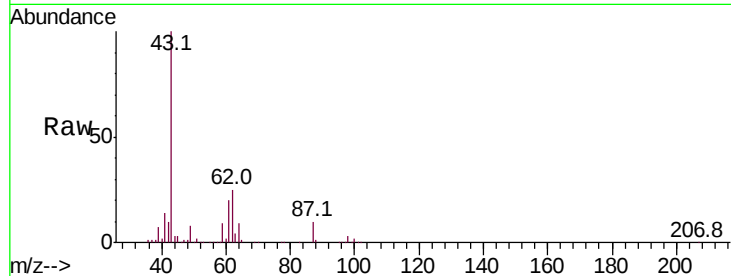
Tot Ion: 43 Resp: 210566

Ion Ratio Lower Upper

43 100

61 26.4 21.5 32.3

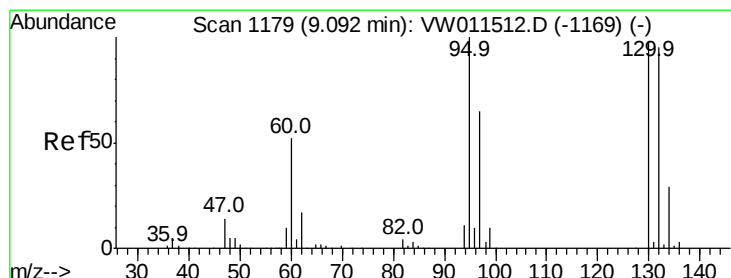
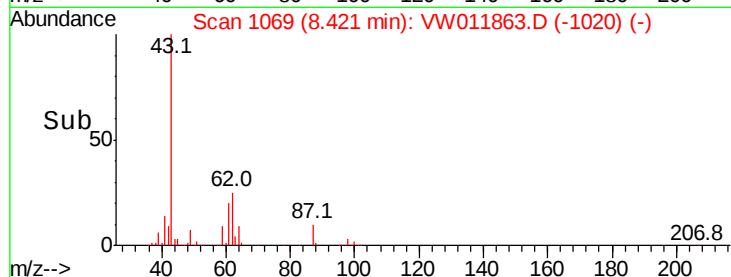
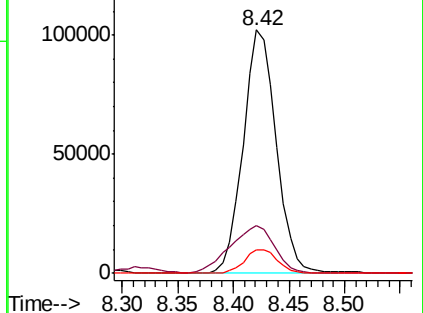
87 10.0 8.4 12.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 53.152 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW011863.D

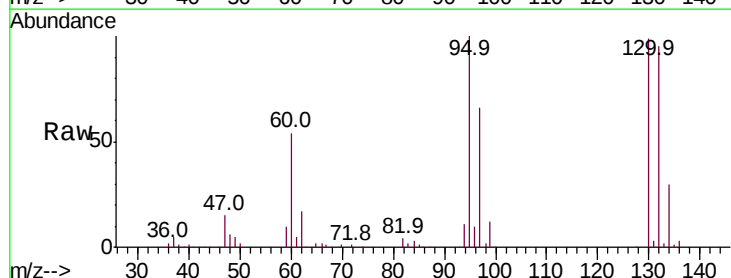
Acq: 12 Aug 2019 19:59

Tgt Ion: 130 Resp: 133198

Ion Ratio Lower Upper

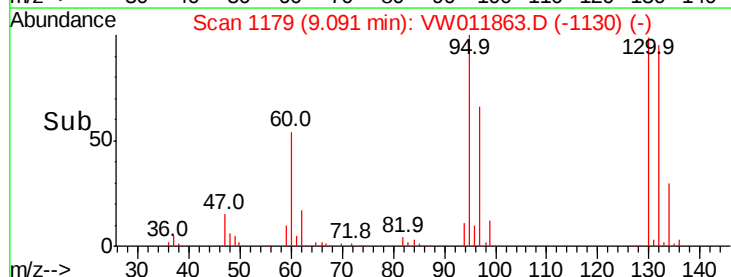
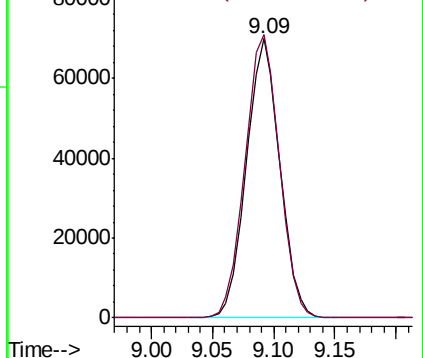
130 100

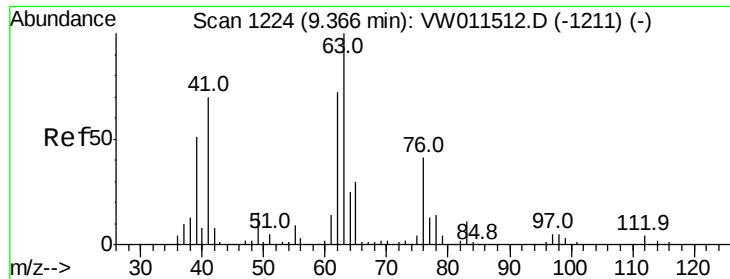
95 101.3 0.0 204.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 54.569 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

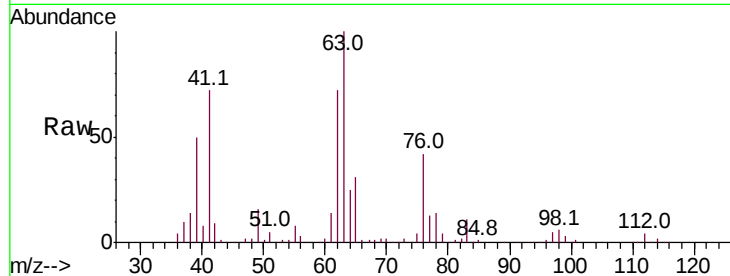
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 63 Resp: 152235

Ion Ratio Lower Upper

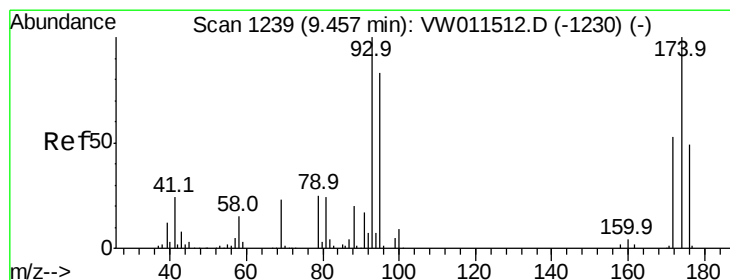
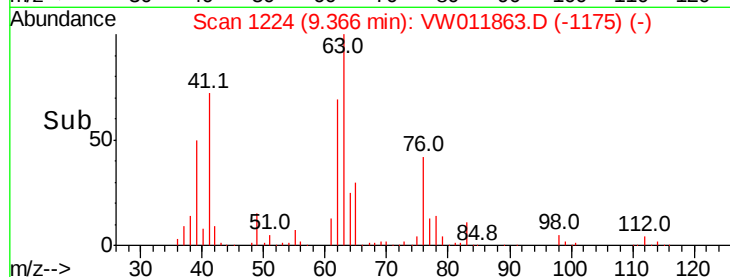
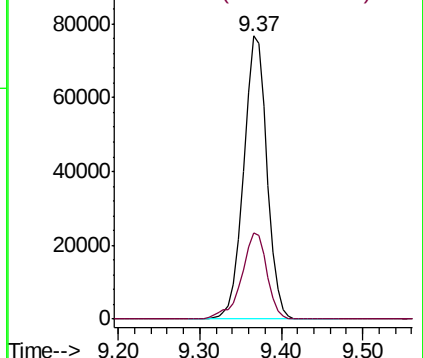
63 100

65 30.6 24.2 36.4



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 53.837 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

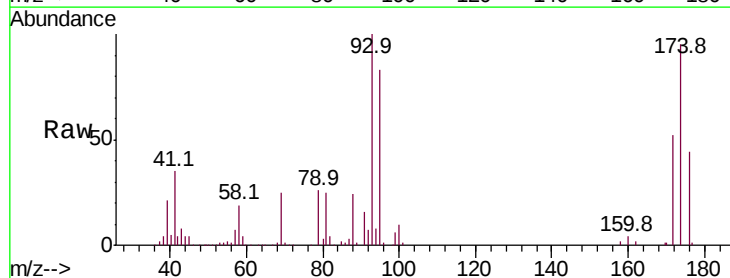
Tgt Ion: 93 Resp: 68551

Ion Ratio Lower Upper

93 100

95 83.8 66.2 99.2

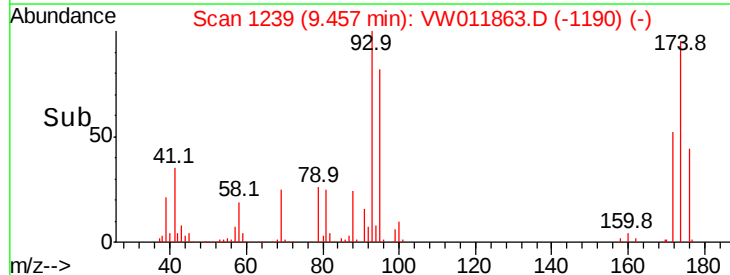
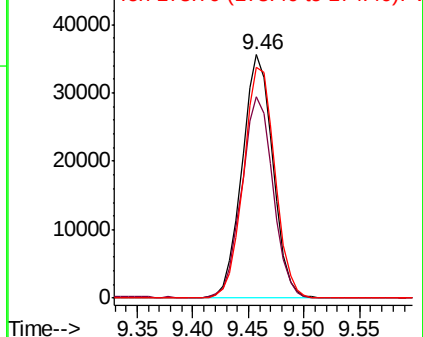
174 96.6 78.2 117.4

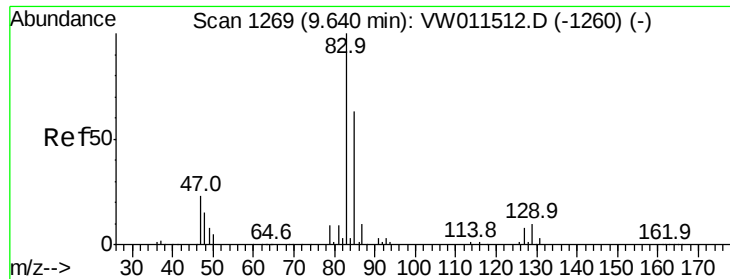


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 55.258 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampleId :

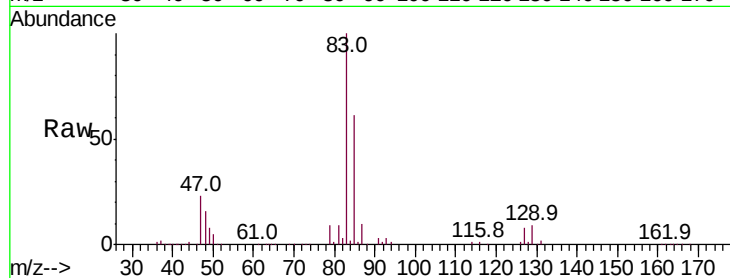
Tot Ion: 83 Resp: 184565

Ion Ratio Lower Upper

83 100

85 60.9 50.5 75.7

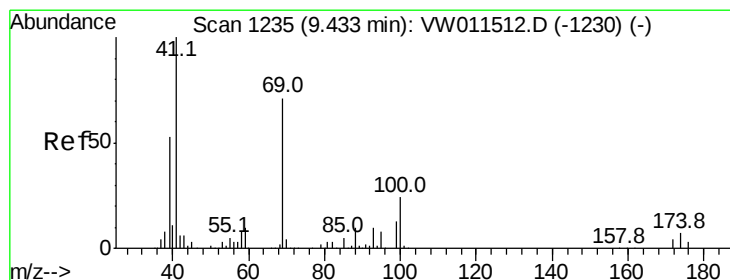
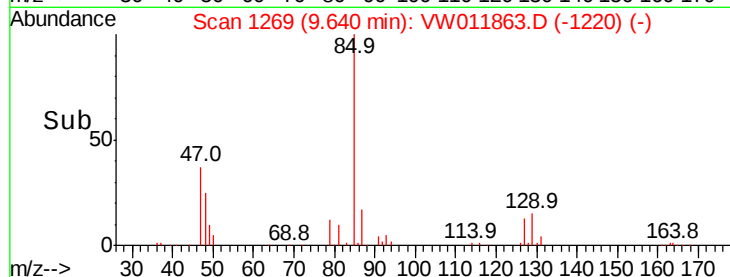
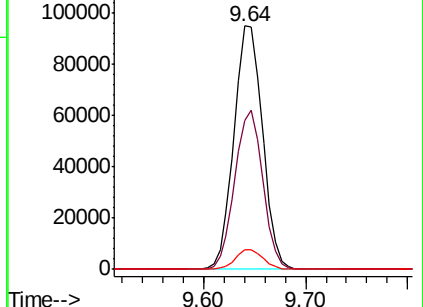
127 8.2 6.4 9.6



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: 53.551 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

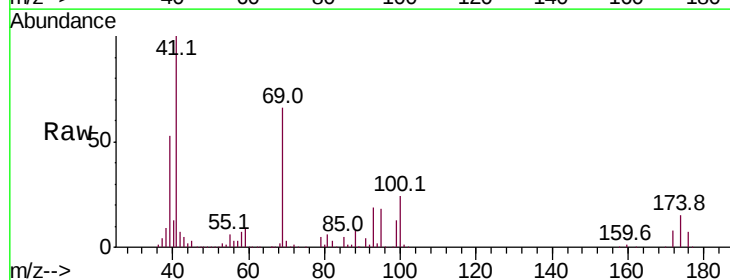
Tgt Ion: 41 Resp: 101314

Ion Ratio Lower Upper

41 100

69 70.8 57.1 85.7

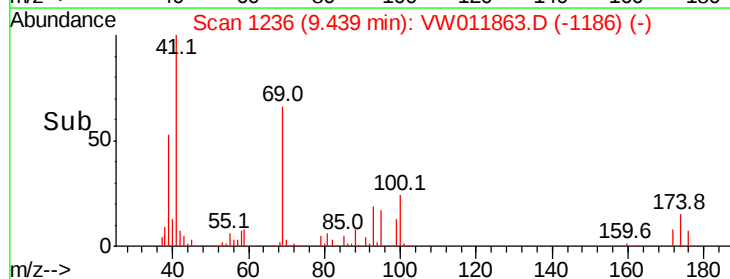
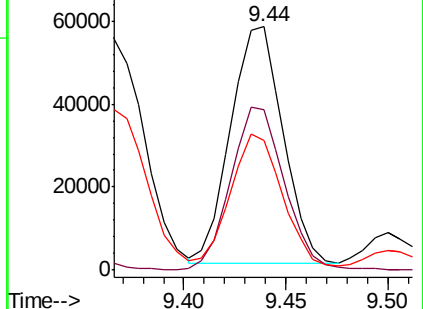
39 58.8 45.4 68.2

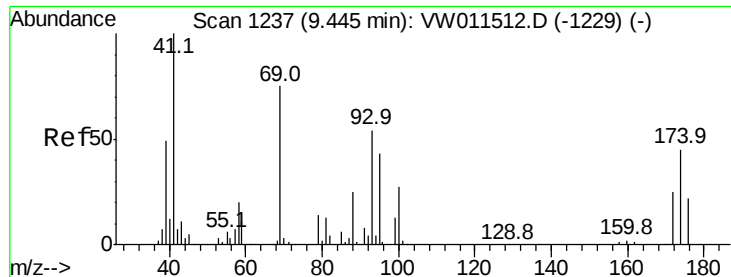


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 1083.170 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampled :

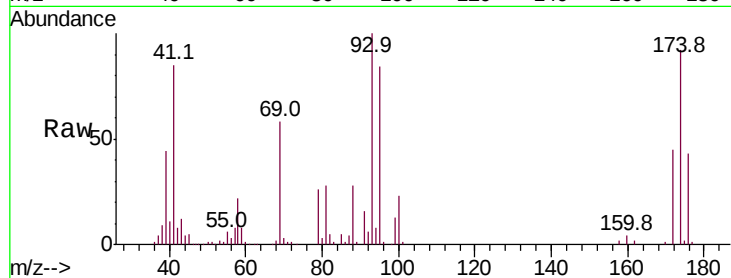
Tot Ion: 88 Resp: 19970

Ion Ratio Lower Upper

88 100

43 31.9 34.0 51.0#

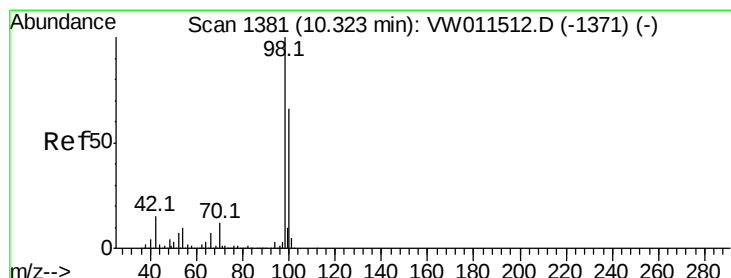
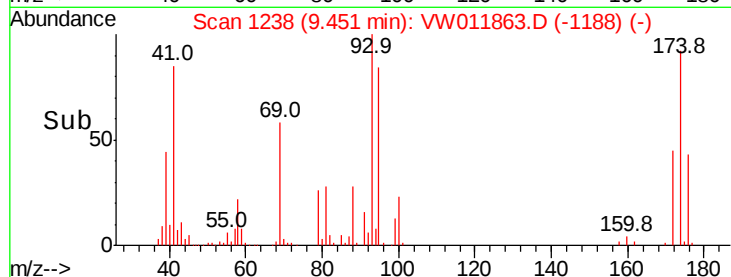
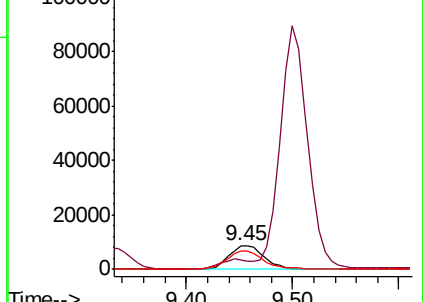
58 83.5 69.7 104.5



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 53.190 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011863.D

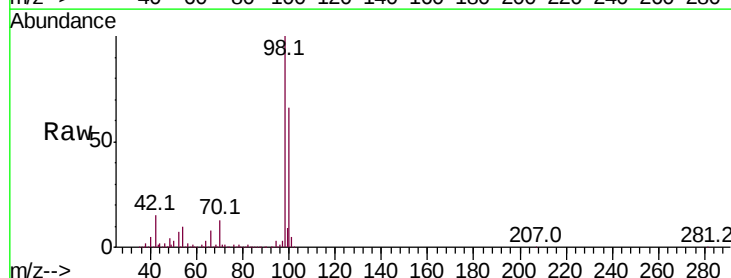
Acq: 12 Aug 2019 19:59

Tgt Ion: 98 Resp: 437362

Ion Ratio Lower Upper

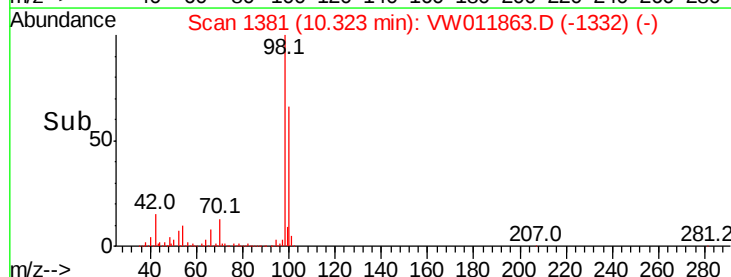
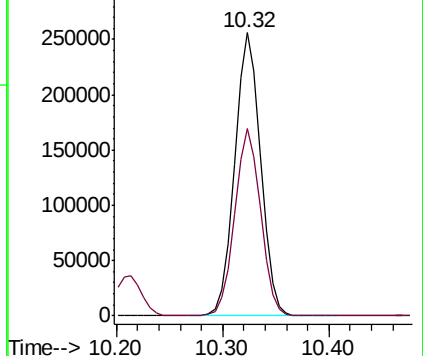
98 100

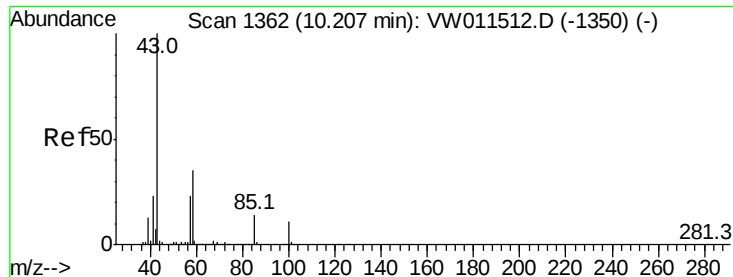
100 65.9 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 264.582 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

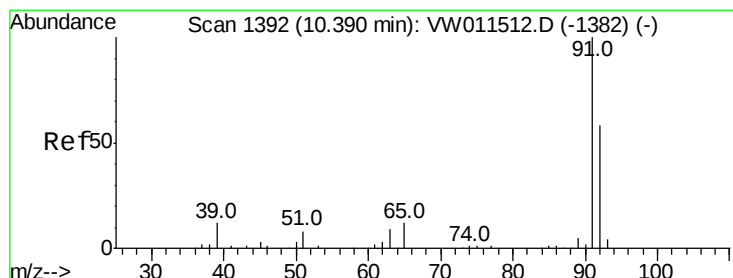
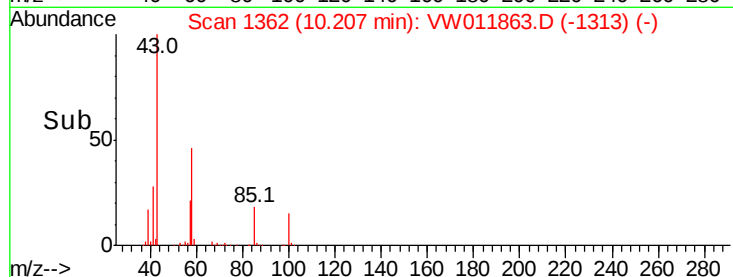
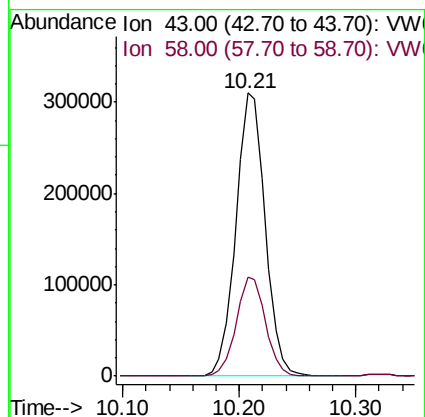
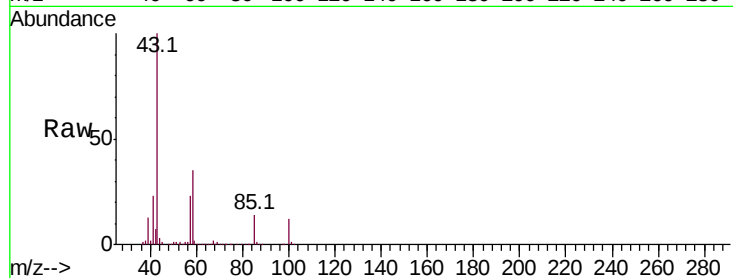
ClientSampleId :

Tot Ion: 43 Resp: 542022

Ion Ratio Lower Upper

43 100

58 35.1 28.2 42.2



#52

Toluene

Concen: 53.850 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW011863.D

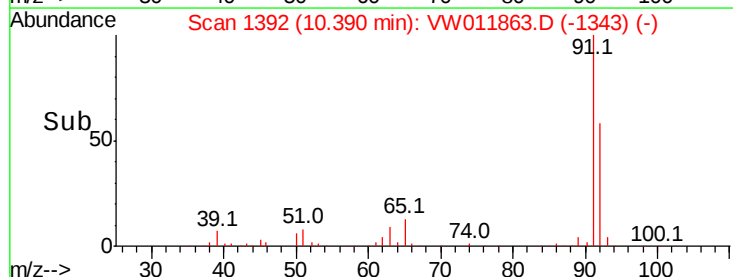
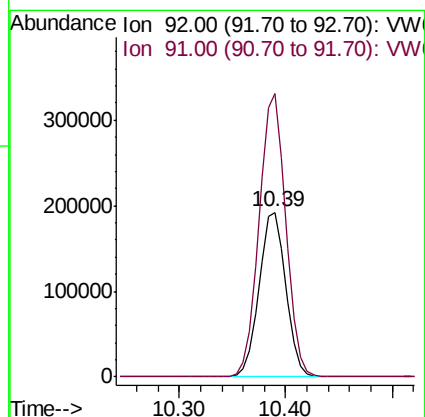
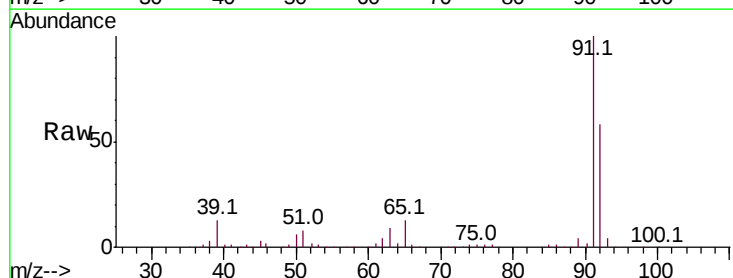
Acq: 12 Aug 2019 19:59

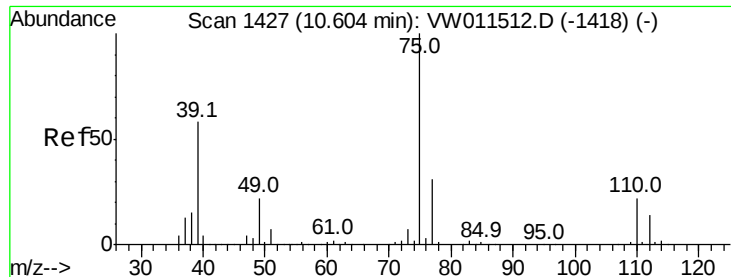
Tgt Ion: 92 Resp: 339066

Ion Ratio Lower Upper

92 100

91 171.5 136.7 205.1

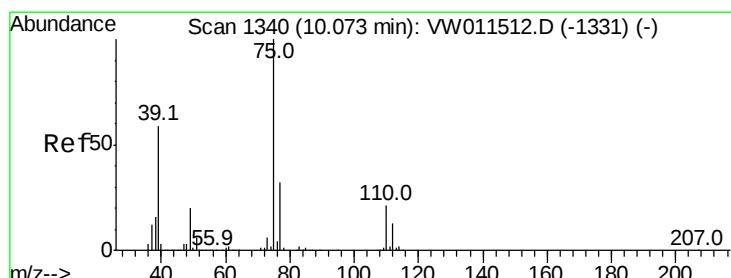
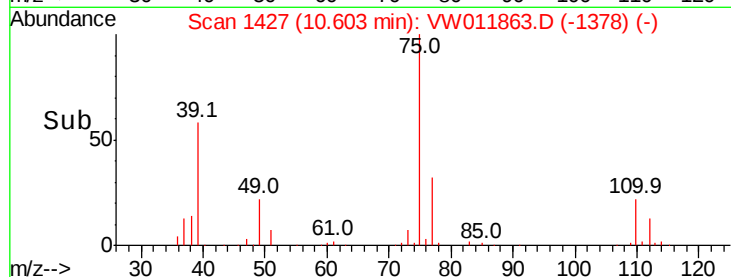
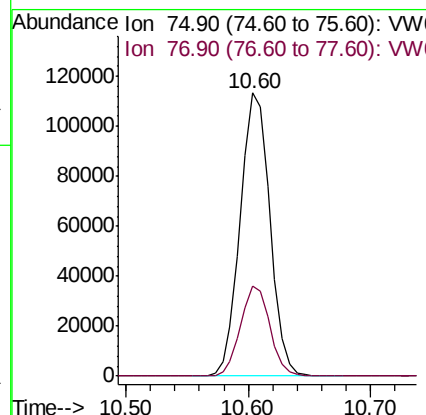
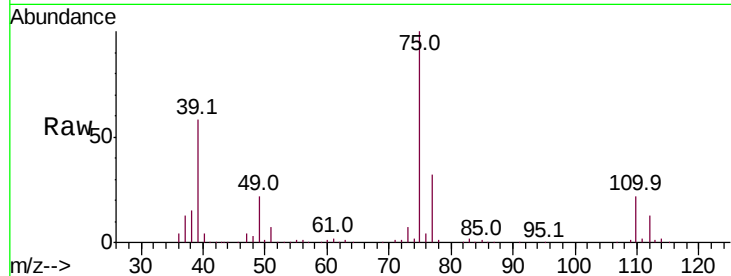




#53  
 t-1,3-Dichloropropene  
 Concen: 54.742 ug/l  
 RT: 10.60 min Scan# 1427  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

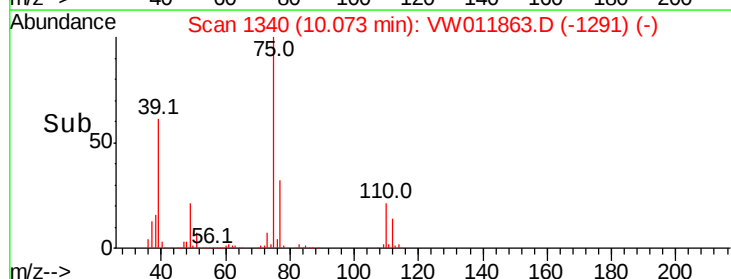
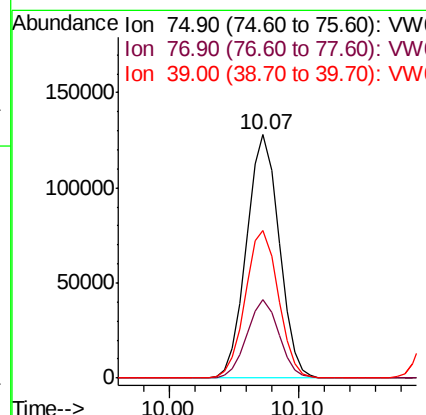
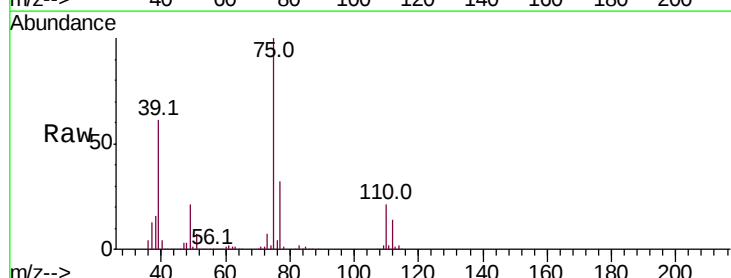
Instrument :  
 MSVOA\_W  
 ClientSampled :

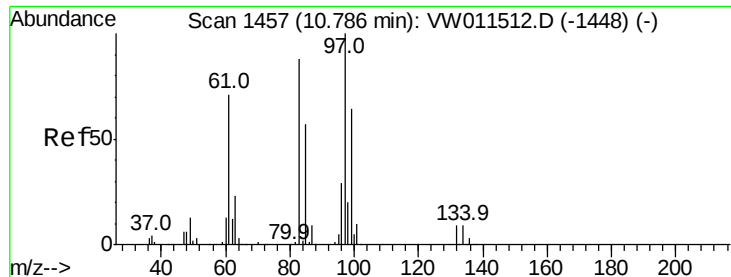
Tot Ion: 75 Resp: 190997  
 Ion Ratio Lower Upper  
 75 100  
 77 31.6 25.0 37.4



#54  
 cis-1,3-Dichloropropene  
 Concen: 54.038 ug/l  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion: 75 Resp: 224176  
 Ion Ratio Lower Upper  
 75 100  
 77 32.0 25.6 38.4  
 39 60.6 47.0 70.4





#55

1,1,2-Trichloroethane

Concen: 53.752 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 97 Resp: 97110

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 85.4  | 70.5  | 105.7 |
| 85  | 55.4  | 45.8  | 68.6  |
| 99  | 61.1  | 51.0  | 76.4  |

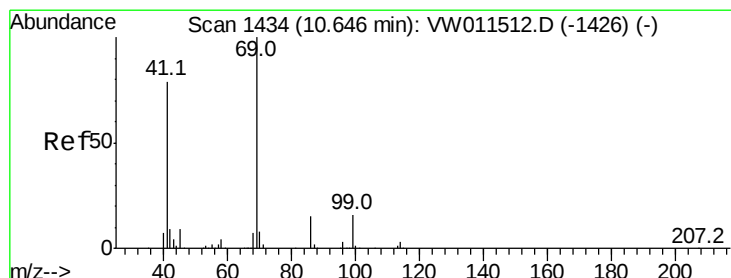
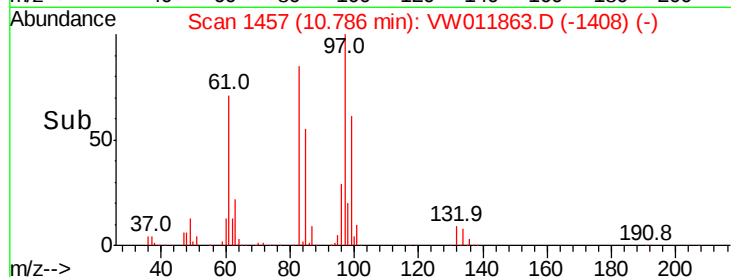
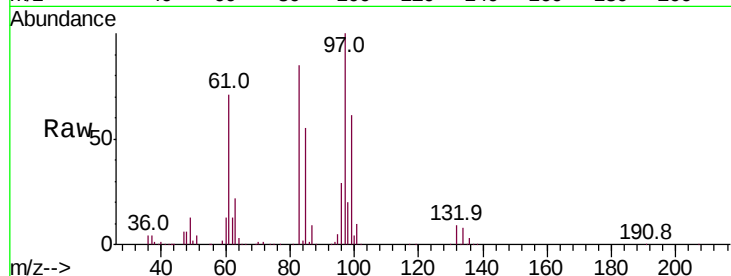
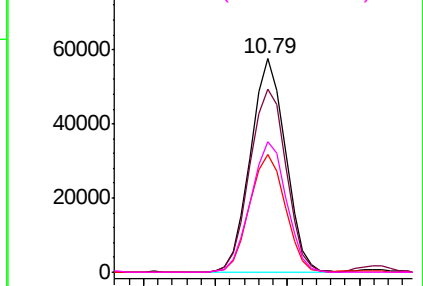
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 54.139 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Tgt Ion: 69 Resp: 143126

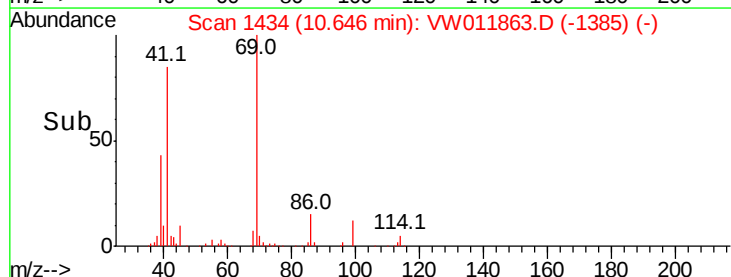
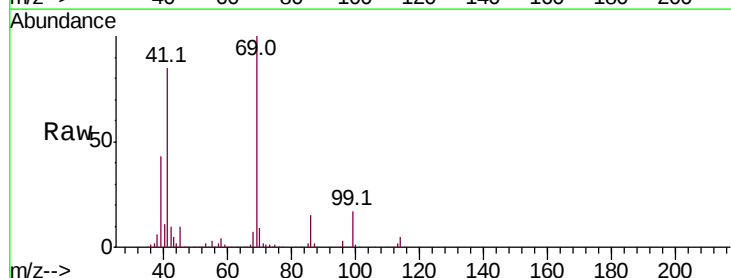
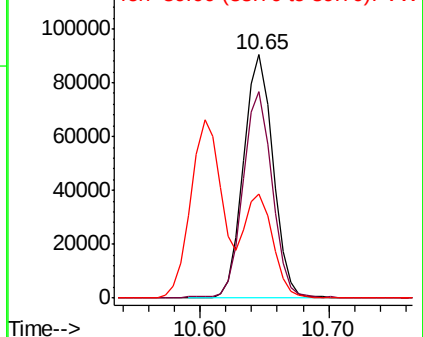
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 84.4  | 66.6  | 99.8  |
| 39  | 40.3  | 30.3  | 45.5  |

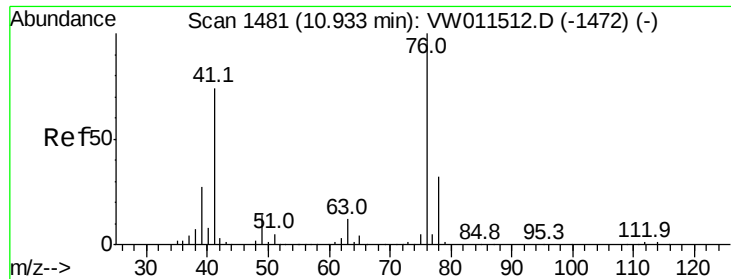
Abundance

Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#57

1,3-Dichloropropane

Concen: 54.068 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

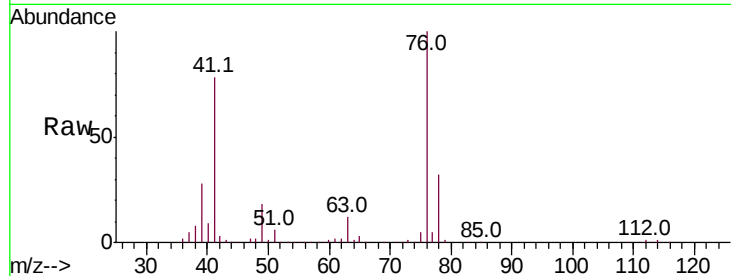
ClientSampled :

Tot Ion: 76 Resp: 184801

Ion Ratio Lower Upper

76 100

78 31.9 25.2 37.8



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

10.93

120000

100000

80000

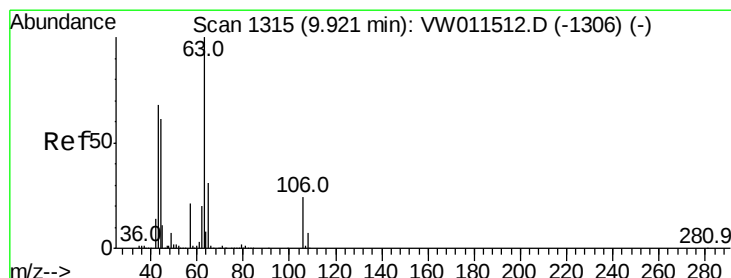
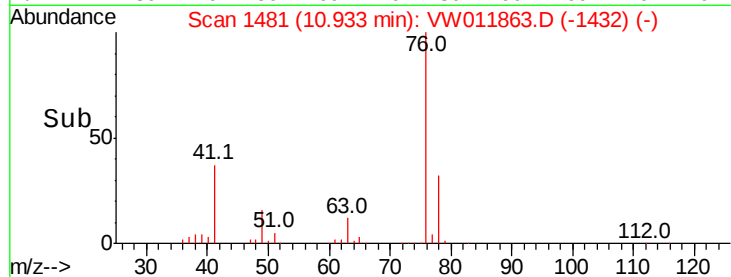
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 328.538 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VW011863.D

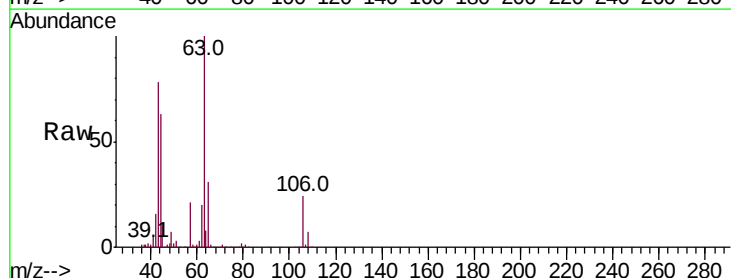
Acq: 12 Aug 2019 19:59

Tgt Ion: 63 Resp: 394355

Ion Ratio Lower Upper

63 100

106 24.3 19.7 29.5



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V

9.92

250000

200000

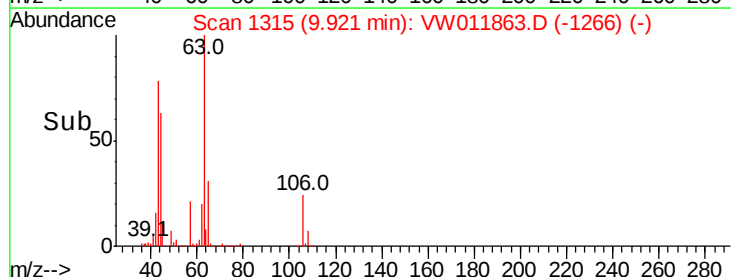
150000

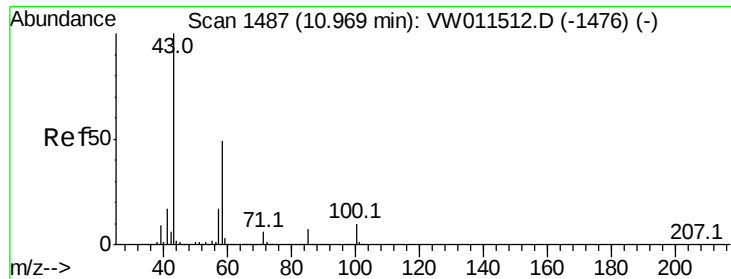
100000

50000

0

Time-->

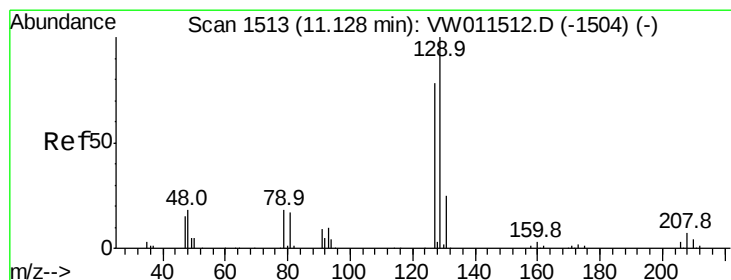
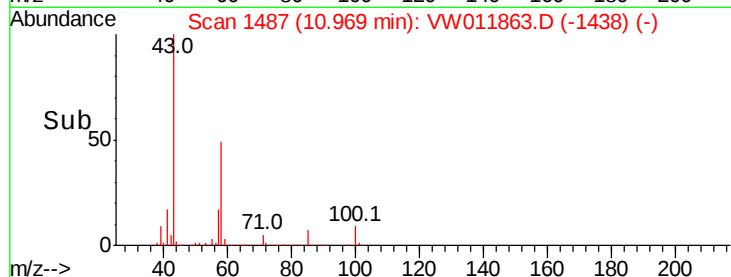
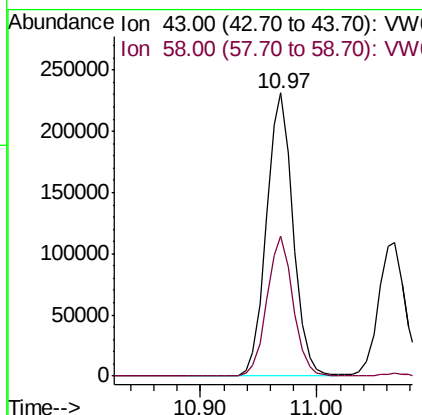
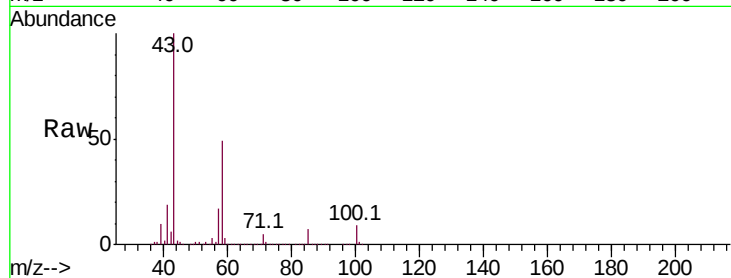




#59  
2-Hexanone  
Concen: 253.373 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

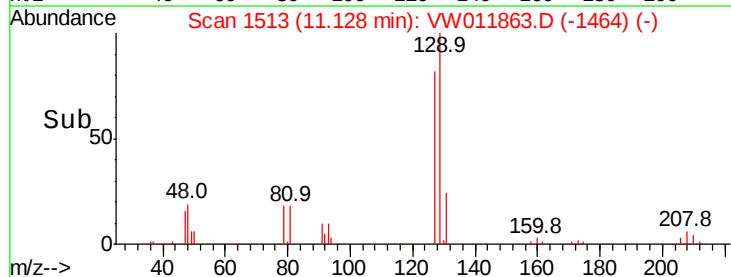
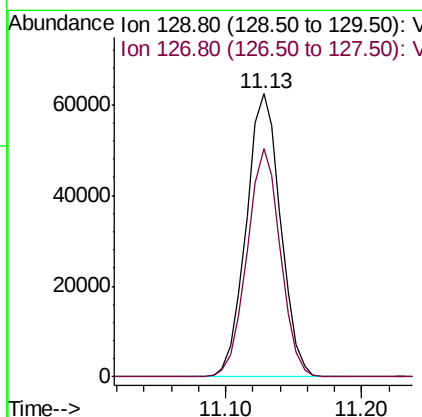
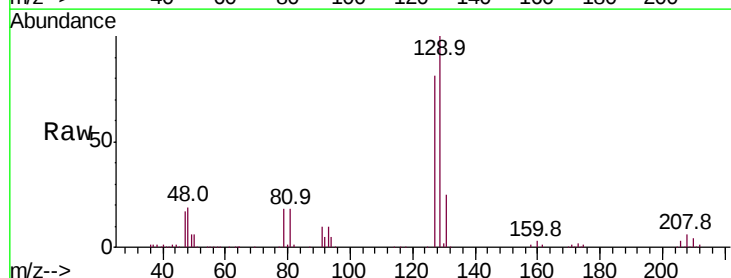
Instrument :  
MSVOA\_W  
ClientSampleId :

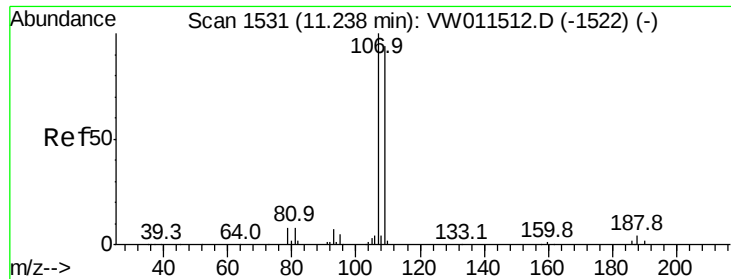
Tot Ion: 43 Resp: 366489  
Ion Ratio Lower Upper  
43 100  
58 48.6 24.3 72.9



#60  
Dibromochloromethane  
Concen: 55.082 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion: 129 Resp: 110462  
Ion Ratio Lower Upper  
129 100  
127 78.4 38.9 116.7

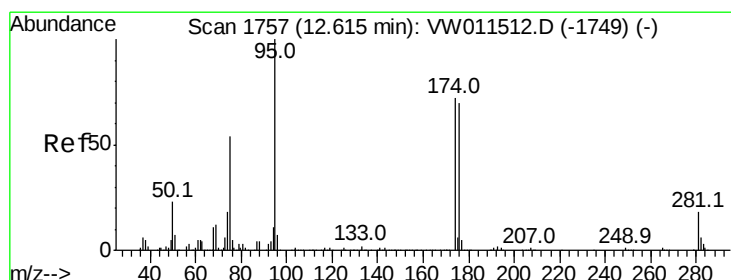
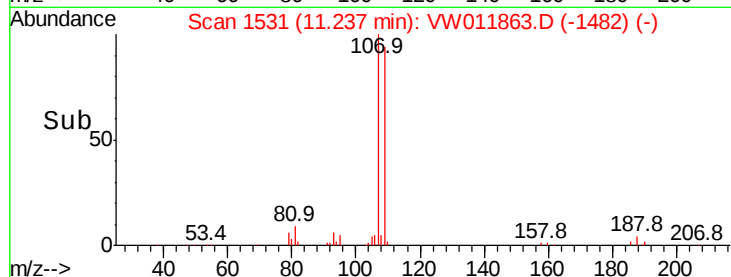
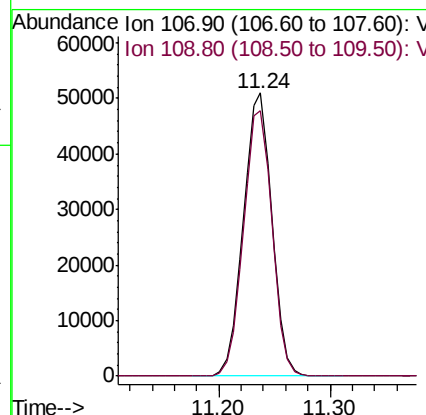
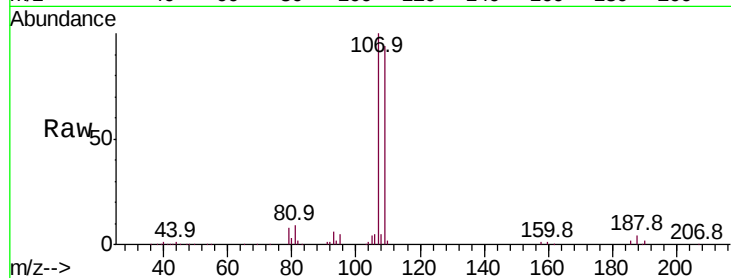




#61  
 1,2-Dibromoethane  
 Concen: 52.834 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

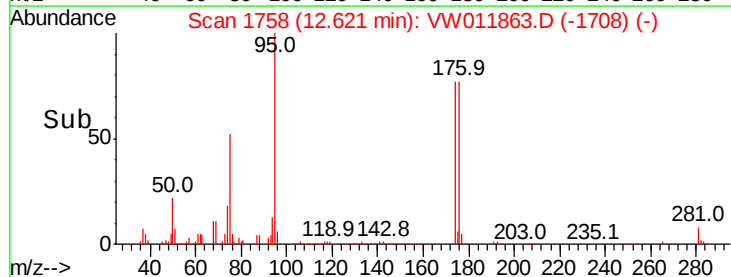
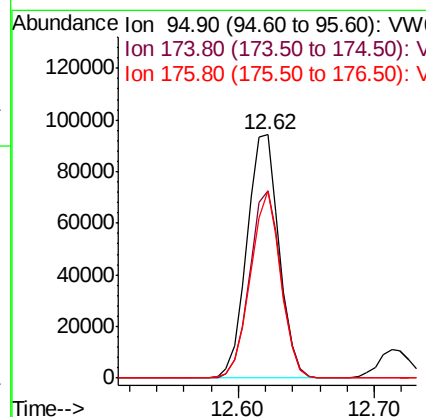
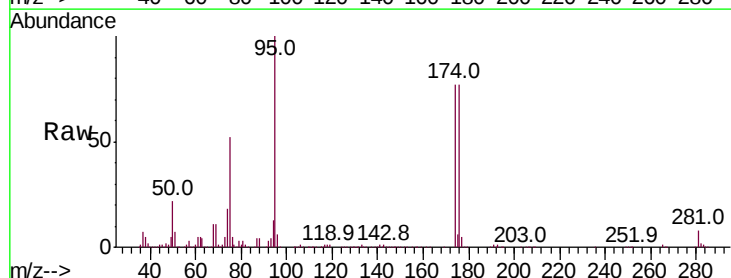
Instrument :  
 MSVOA\_W  
 ClientSampled :

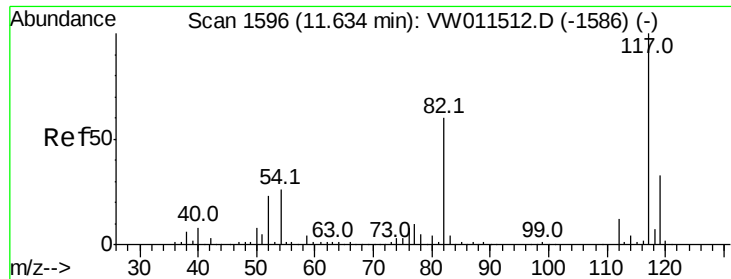
Tot Ion:107 Resp: 90329  
 Ion Ratio Lower Upper  
 107 100  
 109 94.3 75.0 112.6



#62  
 4-Bromofluorobenzene  
 Concen: 53.223 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.01 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion: 95 Resp: 156027  
 Ion Ratio Lower Upper  
 95 100  
 174 75.3 0.0 150.2  
 176 72.4 0.0 144.4

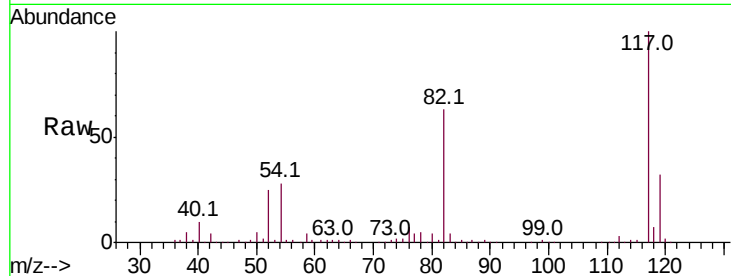




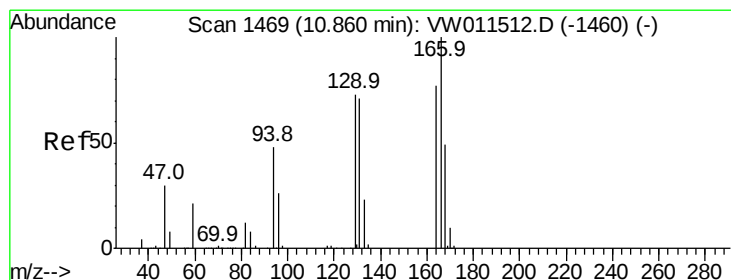
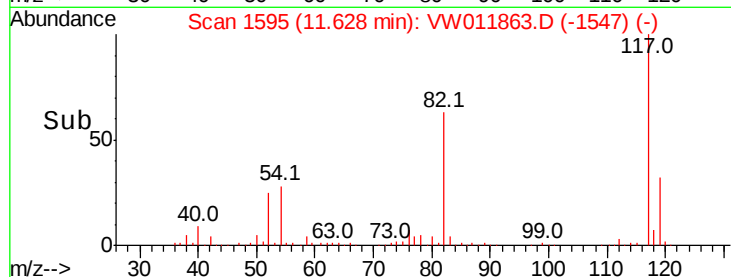
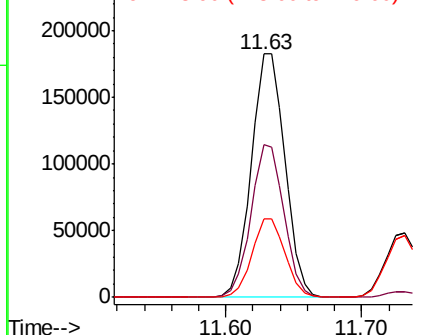
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 318491  
Ion Ratio Lower Upper  
117 100  
82 62.7 47.9 71.9  
119 32.1 26.2 39.2

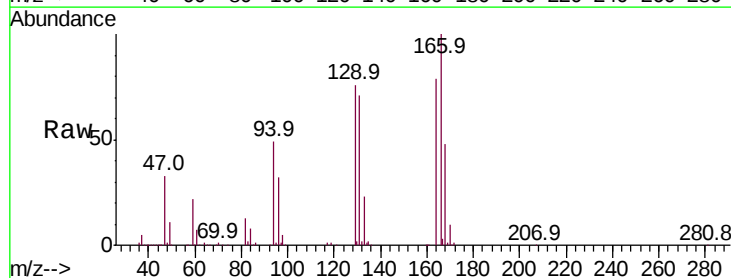


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

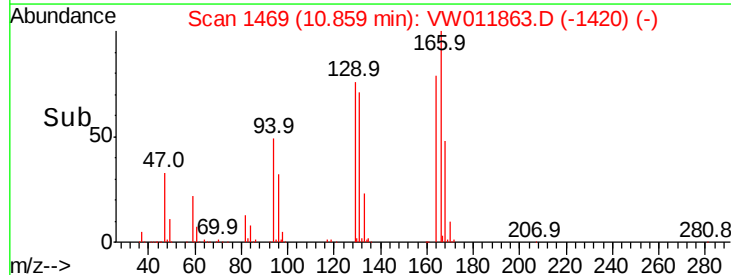
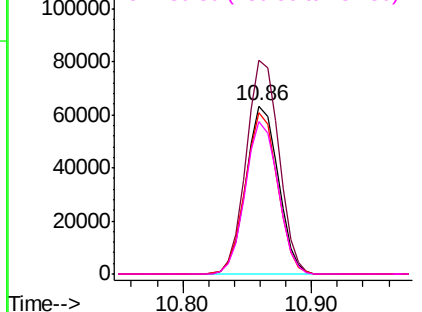


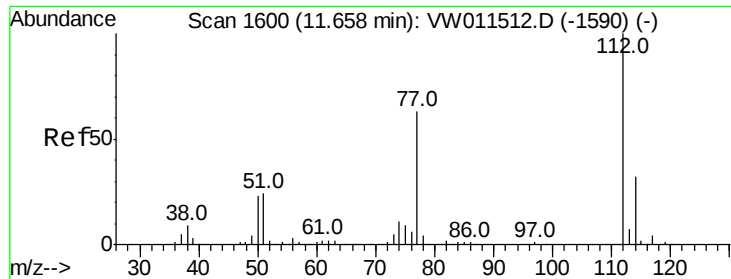
#64  
Tetrachloroethene  
Concen: 52.966 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion:164 Resp: 109837  
Ion Ratio Lower Upper  
164 100  
166 126.9 103.5 155.3  
129 96.2 75.2 112.8  
131 90.3 73.4 110.2



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

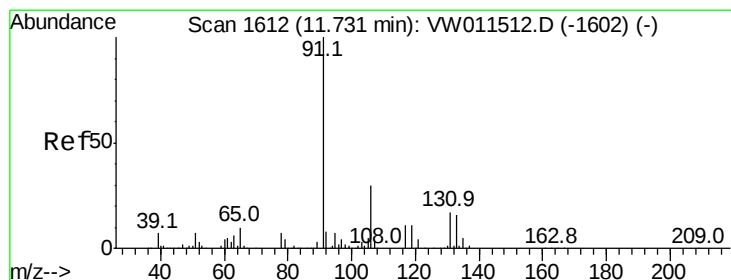
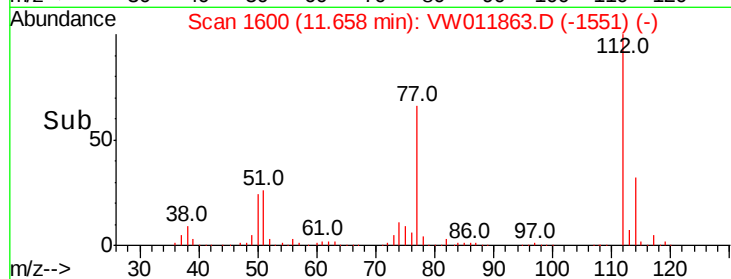
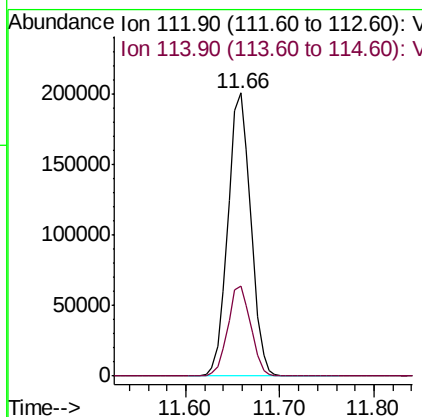
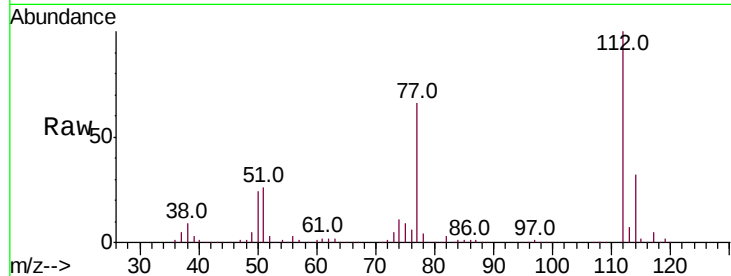




#65  
Chlorobenzene  
Concen: 52.792 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

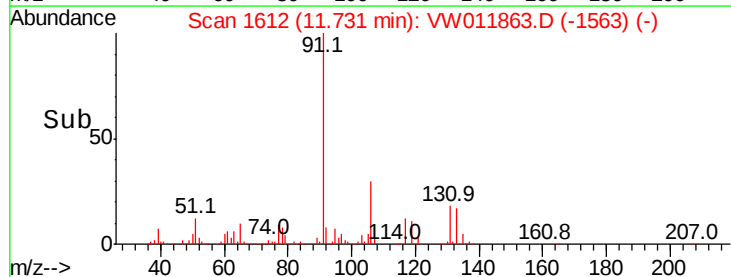
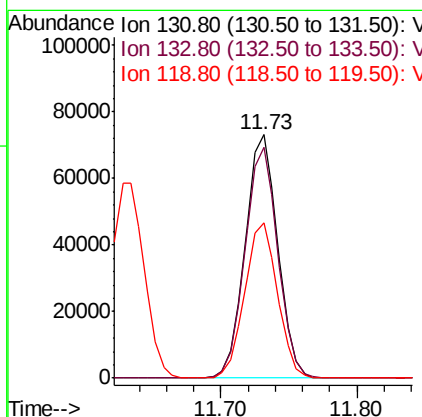
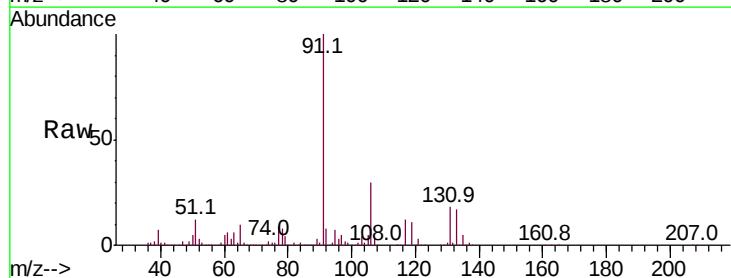
Instrument :  
MSVOA\_W  
ClientSampled :

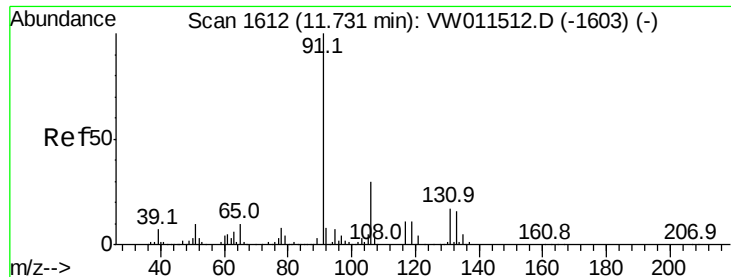
Tot Ion:112 Resp: 338036  
Ion Ratio Lower Upper  
112 100  
114 31.8 25.6 38.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 55.118 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion:131 Resp: 122933  
Ion Ratio Lower Upper  
131 100  
133 95.1 47.4 142.2  
119 64.3 32.3 96.9

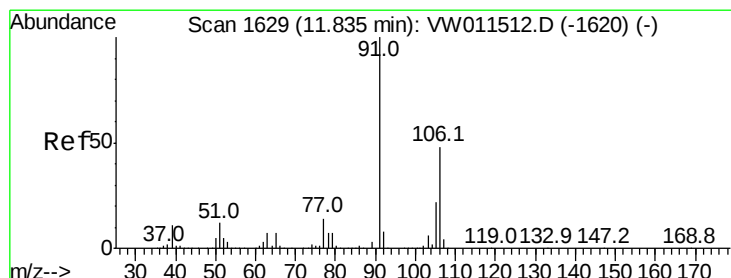
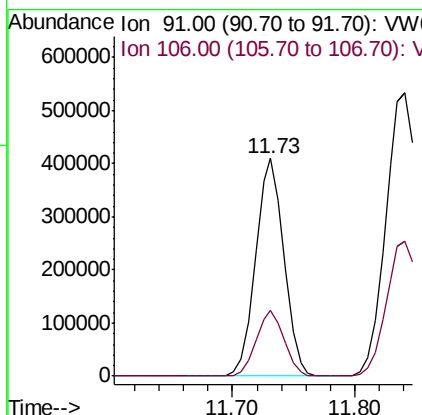
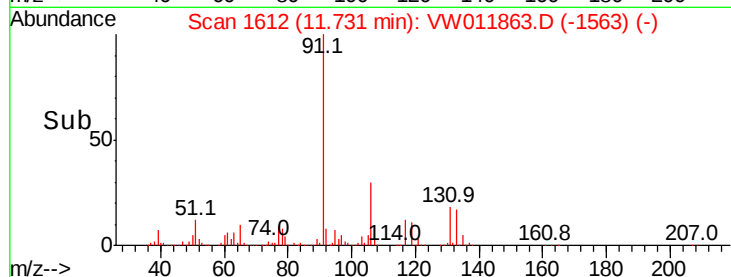
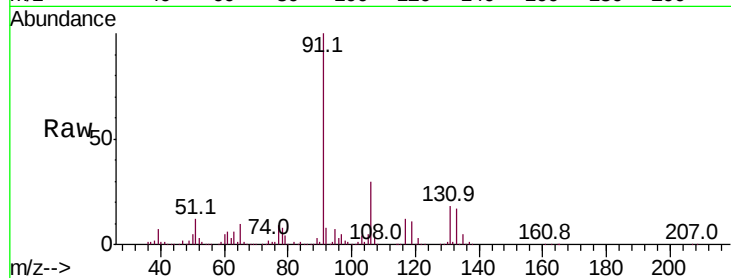




#67  
Ethyl Benzene  
Concen: 53.954 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

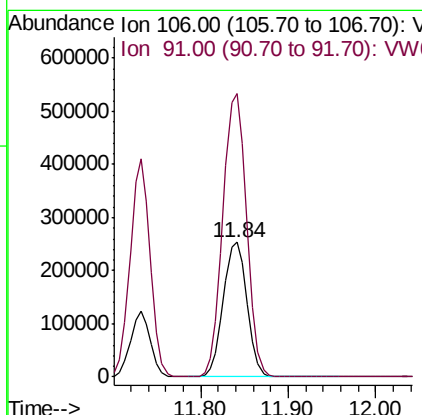
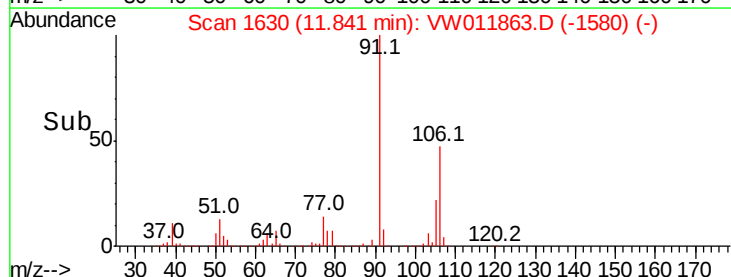
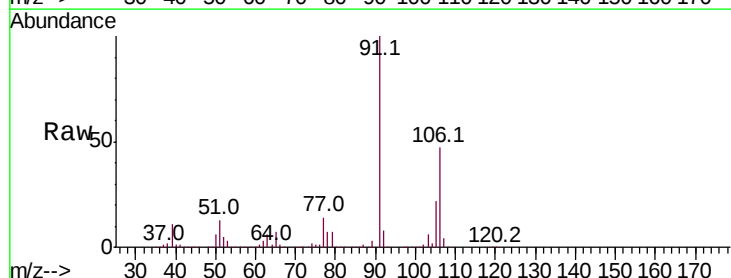
Instrument :  
MSVOA\_W  
ClientSampled :

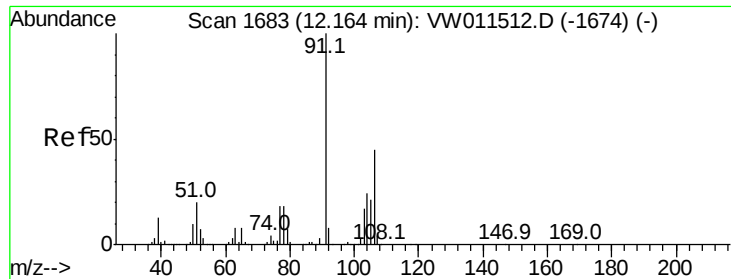
Tot Ion: 91 Resp: 657971  
Ion Ratio Lower Upper  
91 100  
106 30.0 23.8 35.6



#68  
m/p-Xylenes  
Concen: 107.467 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion:106 Resp: 476615  
Ion Ratio Lower Upper  
106 100  
91 210.6 168.2 252.2

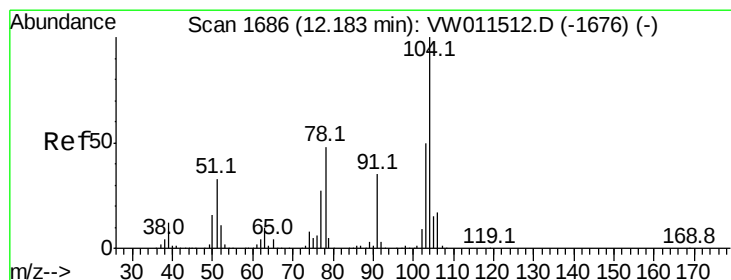
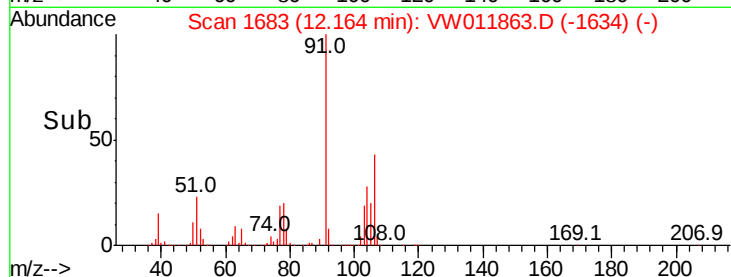
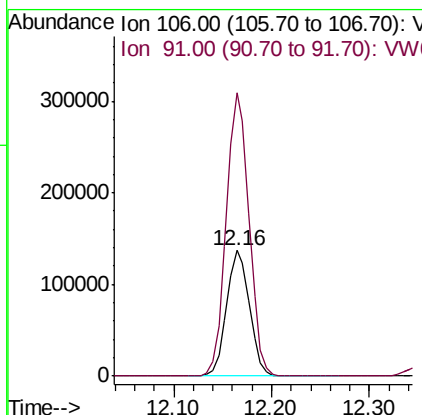
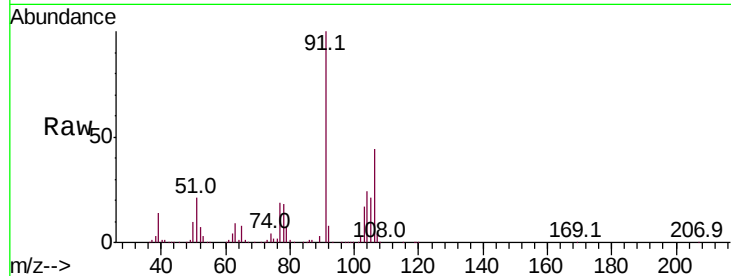




#69  
o-Xylene  
Concen: 53.793 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

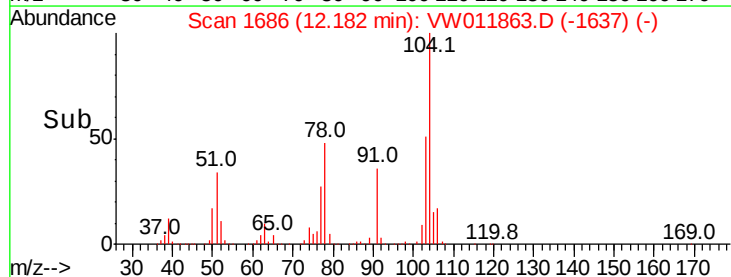
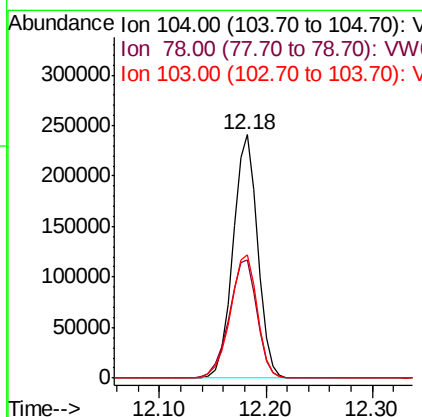
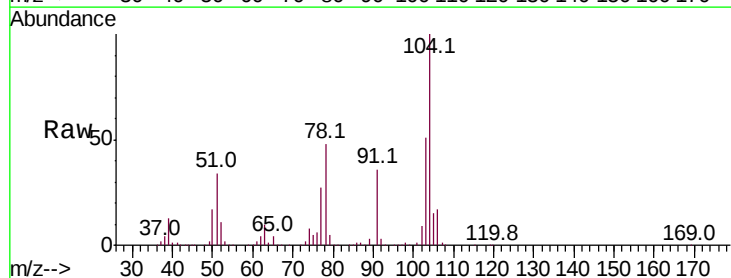
Instrument :  
MSVOA\_W  
ClientSampleId :

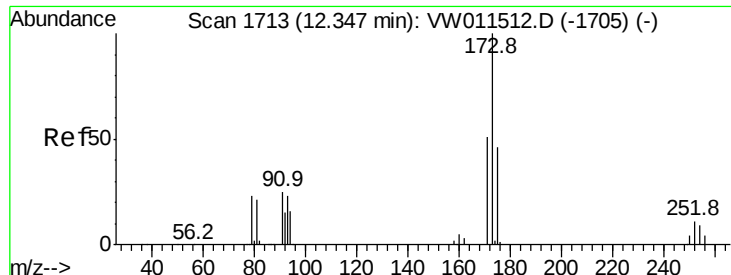
Tot Ion:106 Resp: 221695  
Ion Ratio Lower Upper  
106 100  
91 224.8 110.5 331.5



#70  
Styrene  
Concen: 54.798 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion:104 Resp: 390470  
Ion Ratio Lower Upper  
104 100  
78 54.5 43.4 65.0  
103 55.4 43.9 65.9





#71

Bromoform

Concen: 55.337 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampleId :

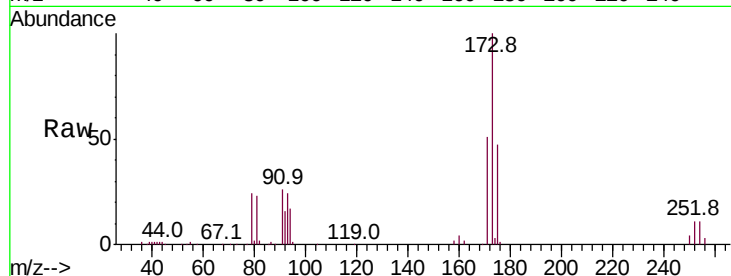
Tot Ion:173 Resp: 62928

Ion Ratio Lower Upper

173 100

175 47.7 23.6 71.0

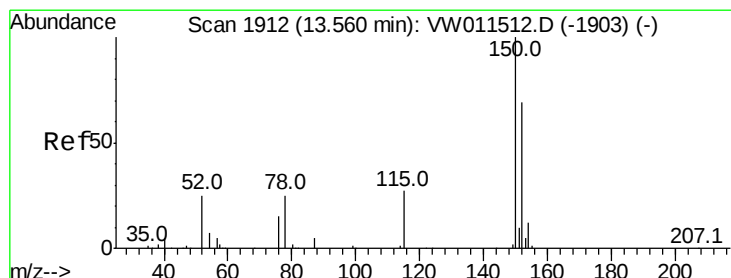
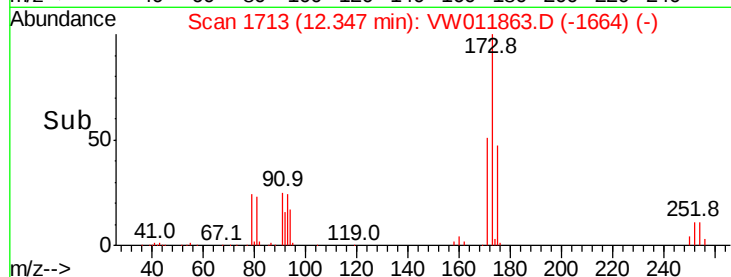
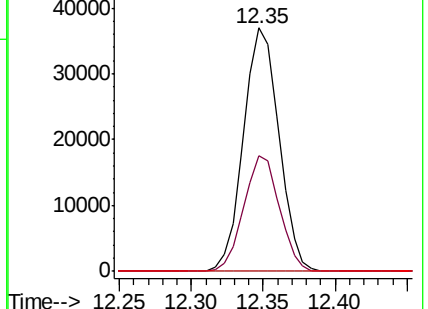
254 0.1 0.1 0.1#



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: VW011863.D

Acq: 12 Aug 2019 19:59

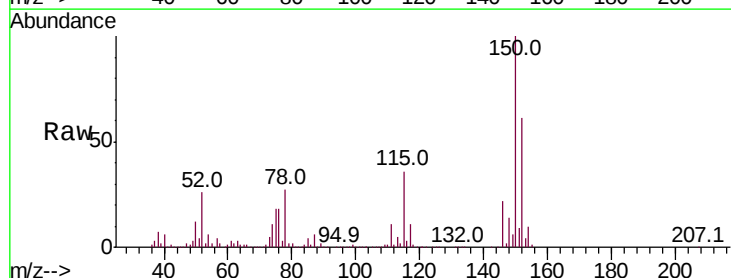
Tgt Ion:152 Resp: 153893

Ion Ratio Lower Upper

152 100

115 60.7 30.5 91.5

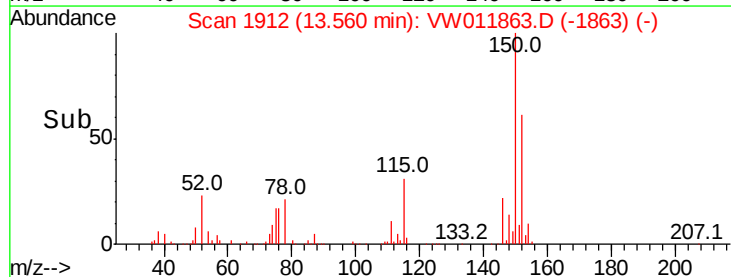
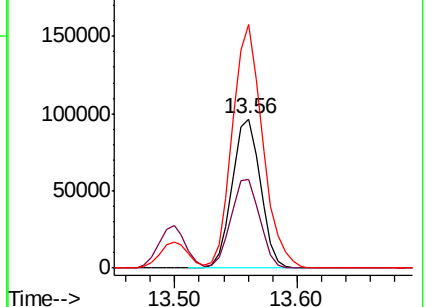
150 174.5 0.0 352.6

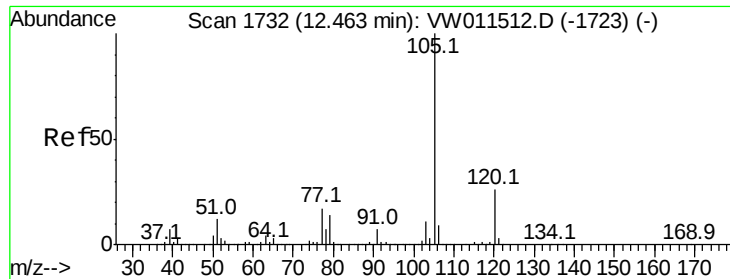


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 53.956 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

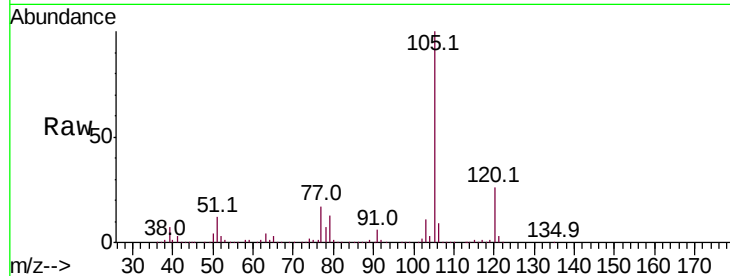
ClientSampled :

Tot Ion:105 Resp: 619462

Ion Ratio Lower Upper

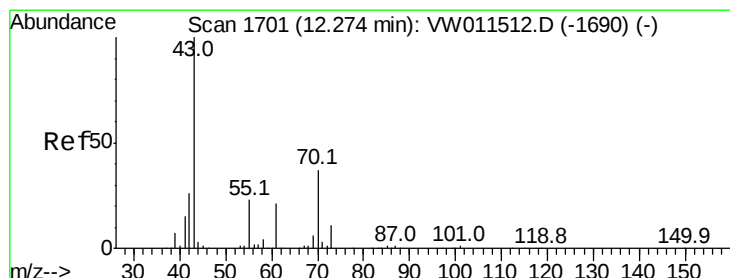
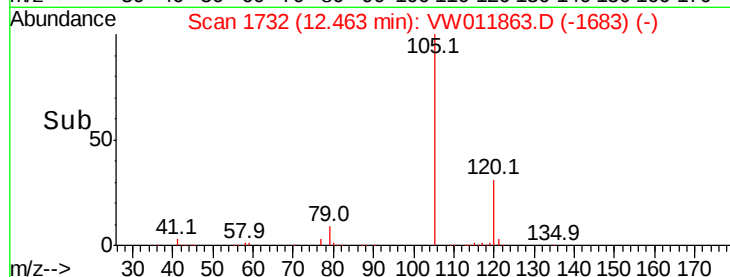
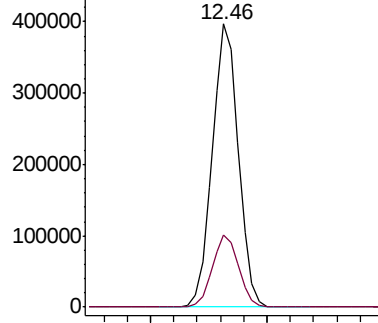
105 100

120 25.6 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 52.355 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Tgt Ion: 43 Resp: 188184

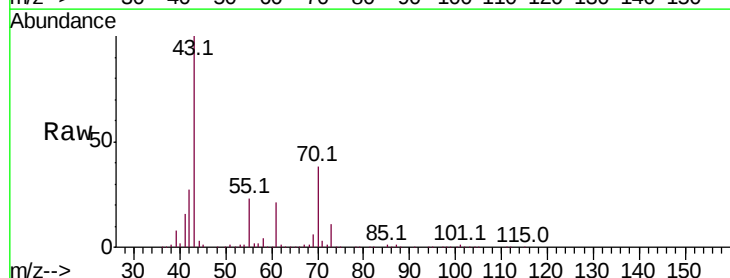
Ion Ratio Lower Upper

43 100

70 35.9 28.6 43.0

55 22.7 17.8 26.8

61 21.8 17.0 25.6

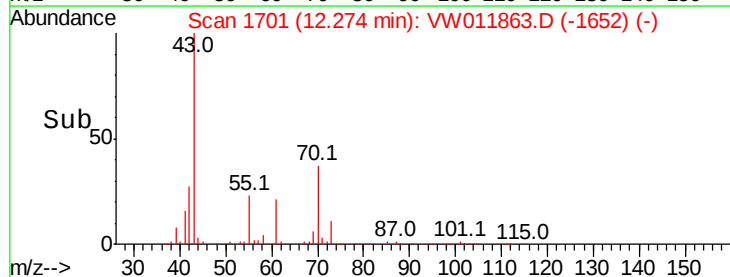
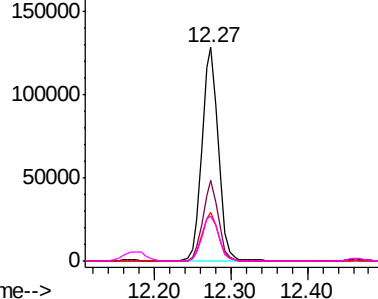


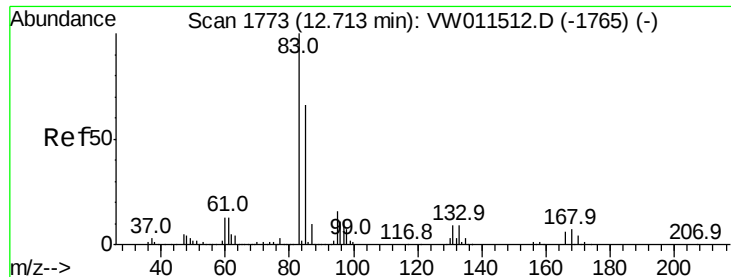
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#75

1,1,2,2-Tetrachloroethane

Concen: 53.333 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampleId :

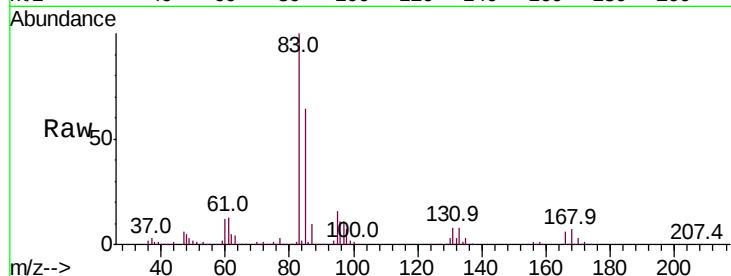
Tot Ion: 83 Resp: 115174

Ion Ratio Lower Upper

83 100

131 10.0 4.9 14.6

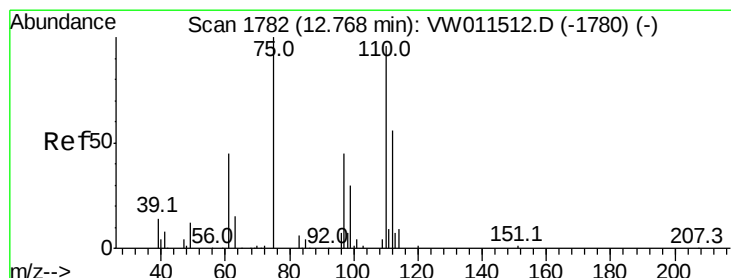
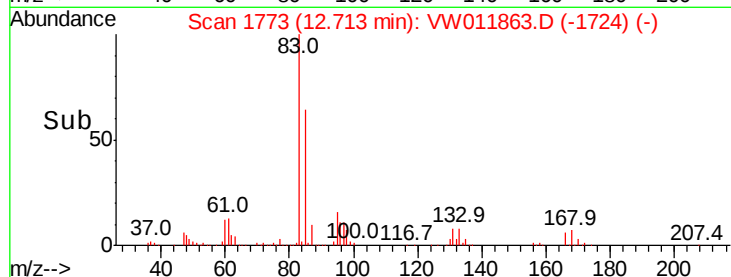
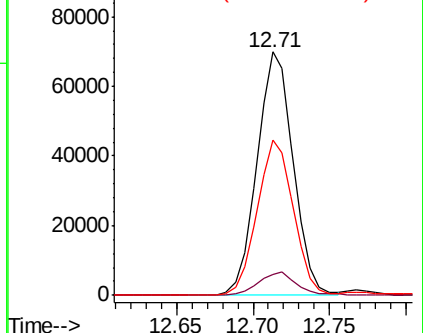
85 64.0 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 94.445 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW011863.D

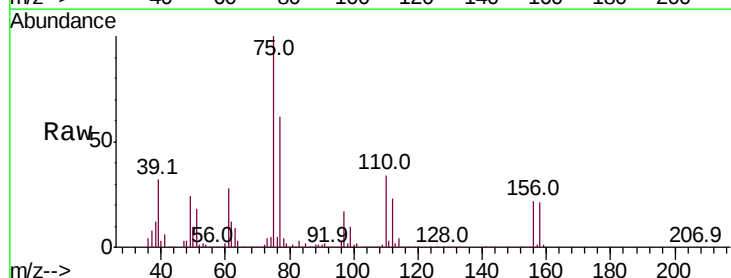
Acq: 12 Aug 2019 19:59

Tgt Ion: 75 Resp: 153791

Ion Ratio Lower Upper

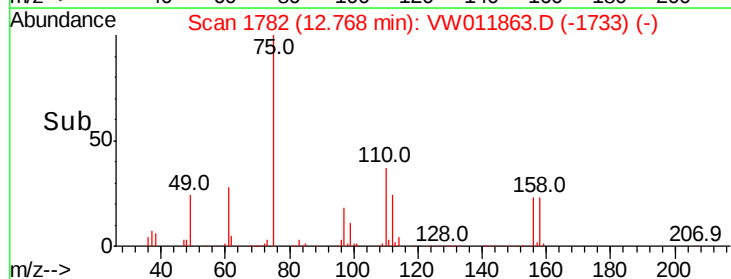
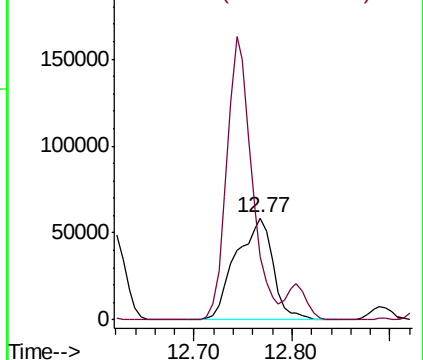
75 100

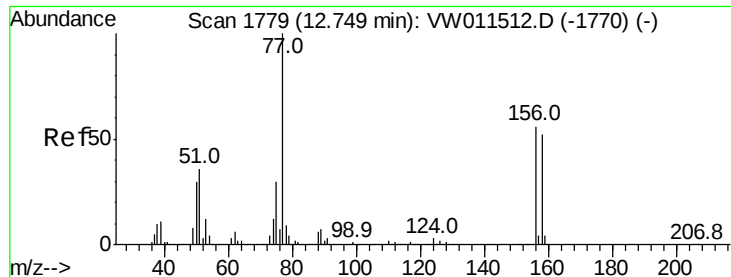
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 53.758 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampleId :

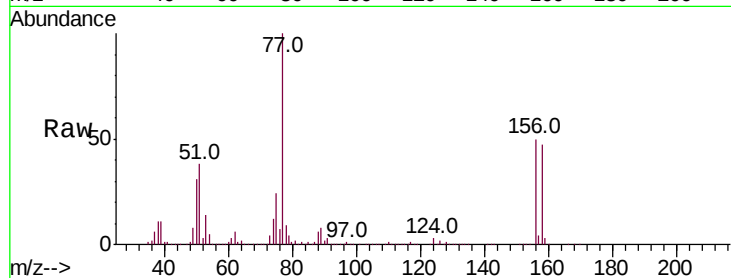
Tot Ion:156 Resp: 136417

Ion Ratio Lower Upper

156 100

77 213.4 106.5 319.4

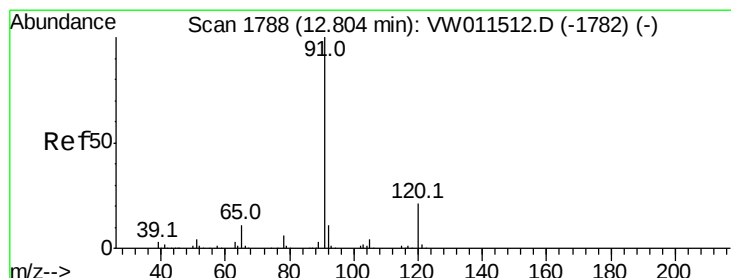
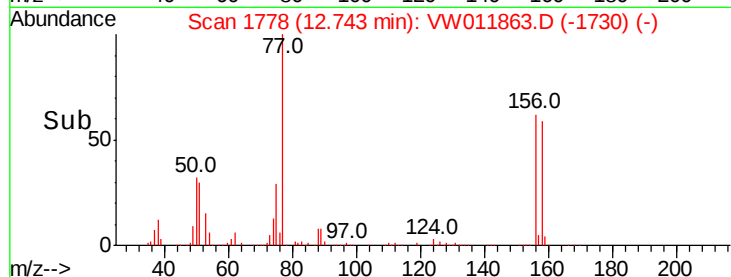
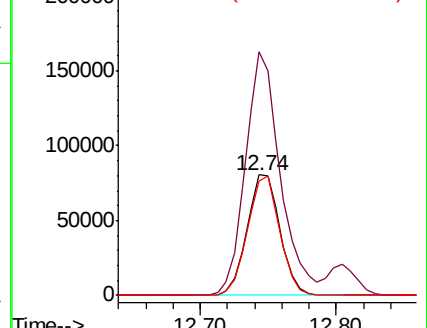
158 96.5 48.0 144.2



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: 54.009 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW011863.D

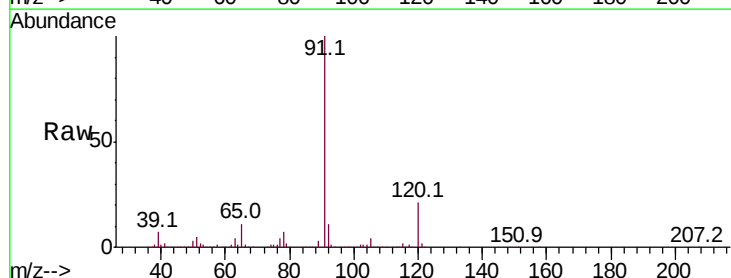
Acq: 12 Aug 2019 19:59

Tgt Ion: 91 Resp: 754621

Ion Ratio Lower Upper

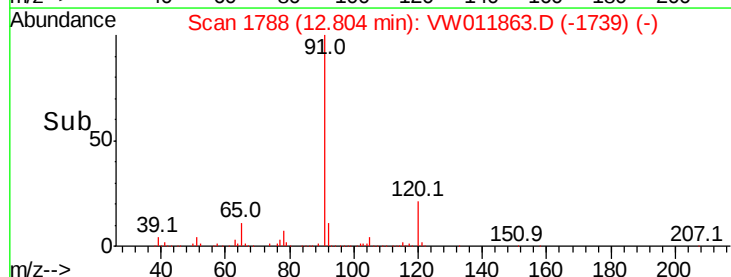
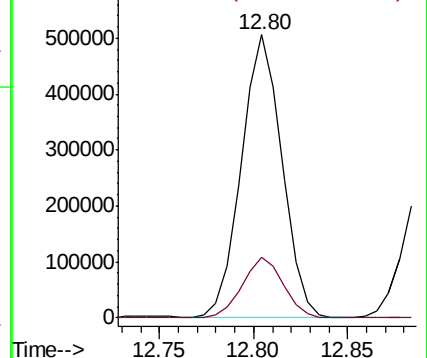
91 100

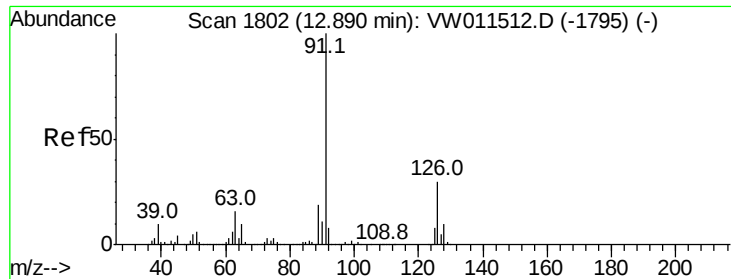
120 21.5 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 53.500 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

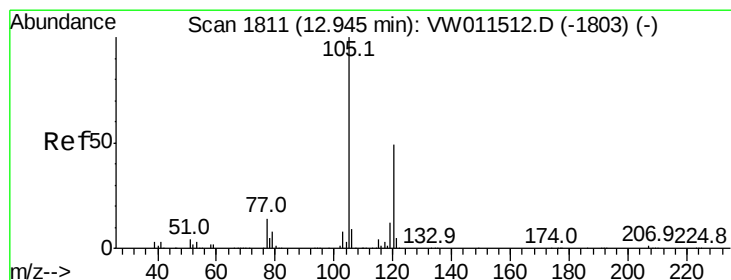
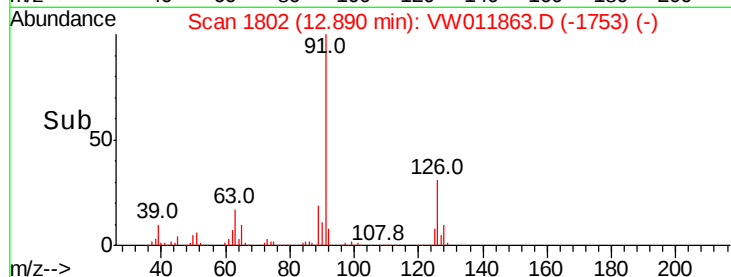
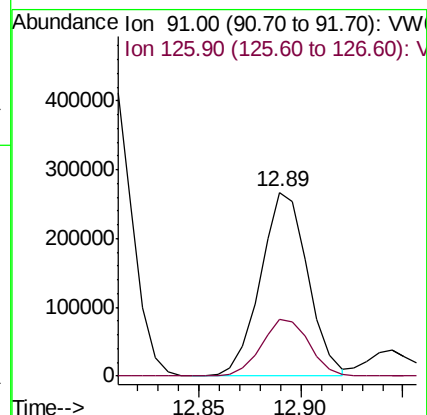
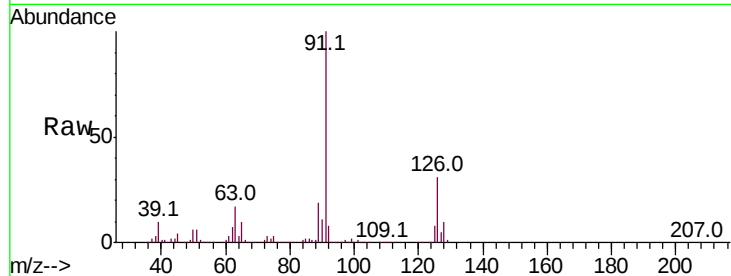
ClientSampled :

Tot Ion: 91 Resp: 430641

Ion Ratio Lower Upper

91 100

126 31.4 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 54.349 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW011863.D

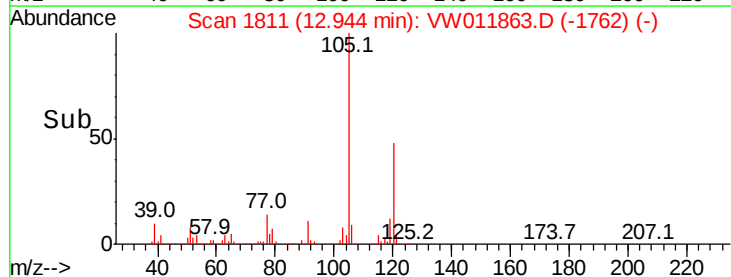
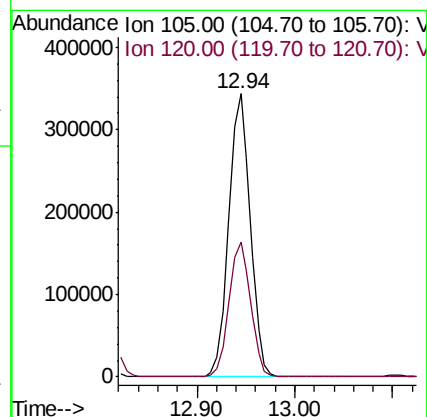
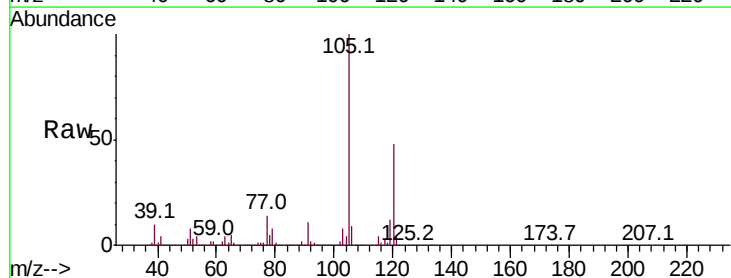
Acq: 12 Aug 2019 19:59

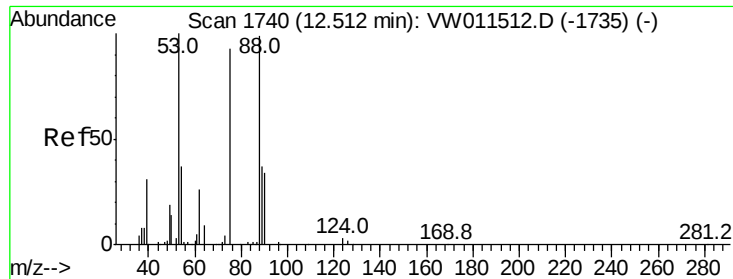
Tgt Ion:105 Resp: 523045

Ion Ratio Lower Upper

105 100

120 48.1 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 53.297 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW011863.D

Acq: 12 Aug 2019 19:59

Instrument :

MSVOA\_W

ClientSampleId :

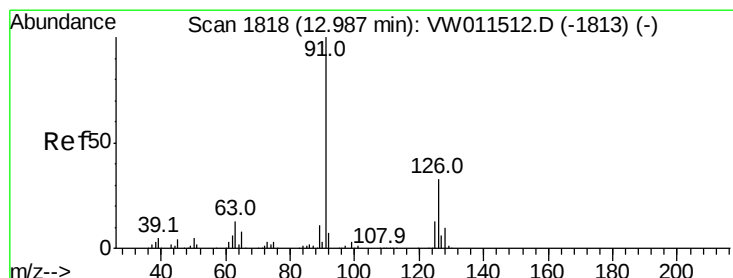
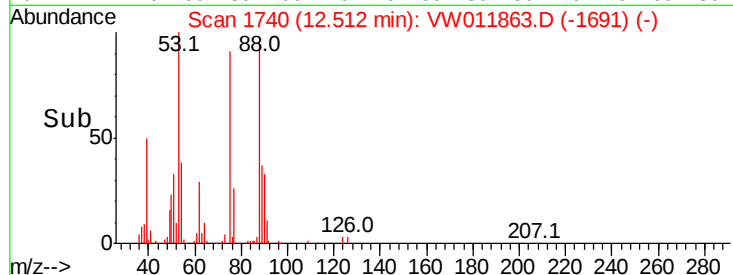
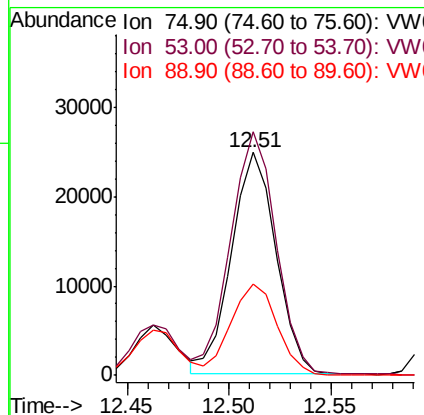
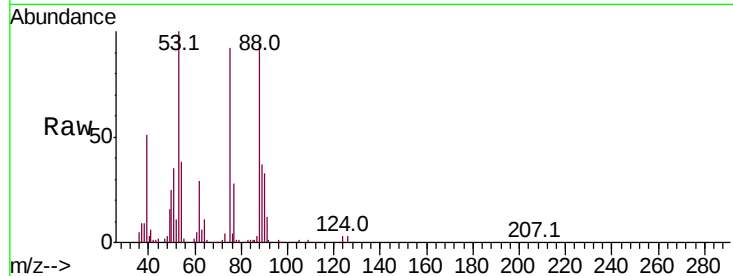
Tot Ion: 75 Resp: 37657

Ion Ratio Lower Upper

75 100

53 112.0 88.0 132.0

89 42.8 35.3 52.9



#82

4-Chlorotoluene

Concen: 53.573 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW011863.D

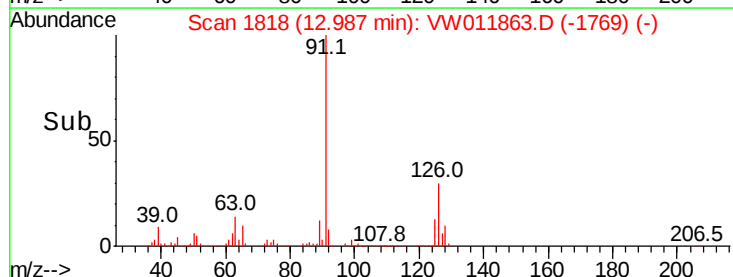
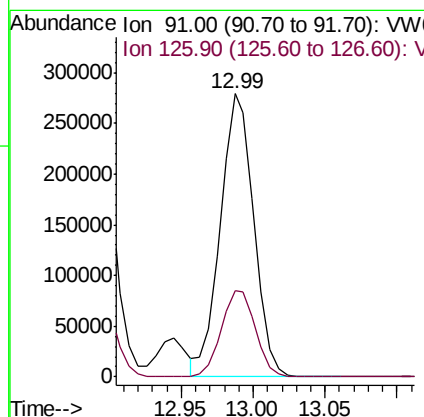
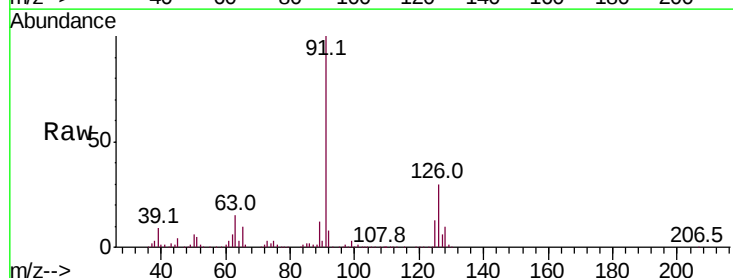
Acq: 12 Aug 2019 19:59

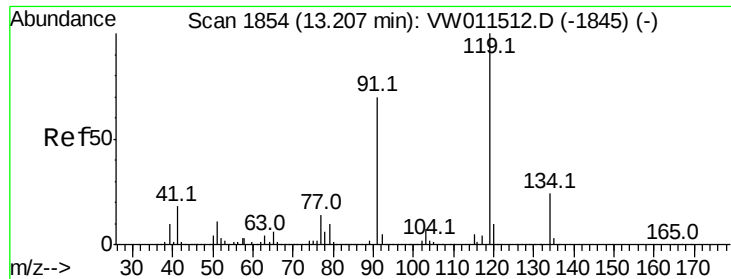
Tgt Ion: 91 Resp: 452451

Ion Ratio Lower Upper

91 100

126 31.0 15.6 46.8

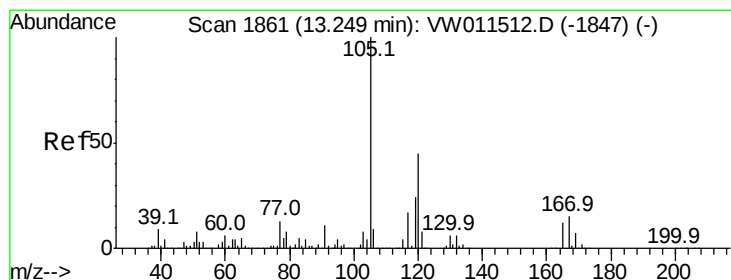
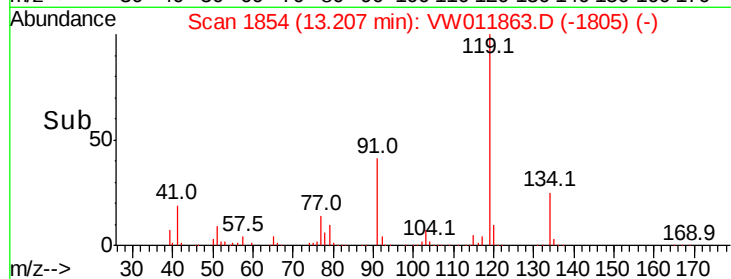
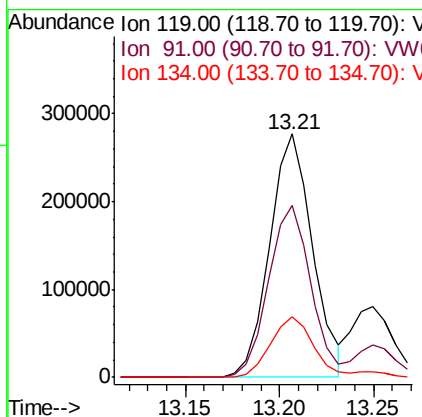
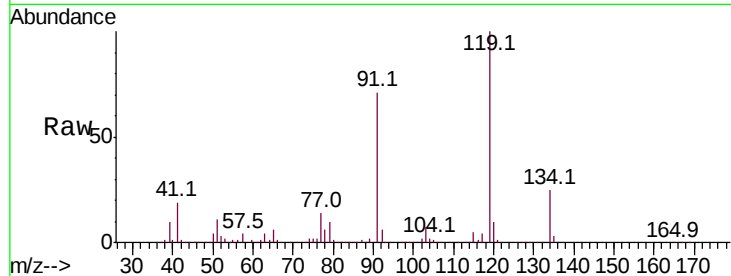




#83  
 tert-Butylbenzene  
 Concen: 54.293 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

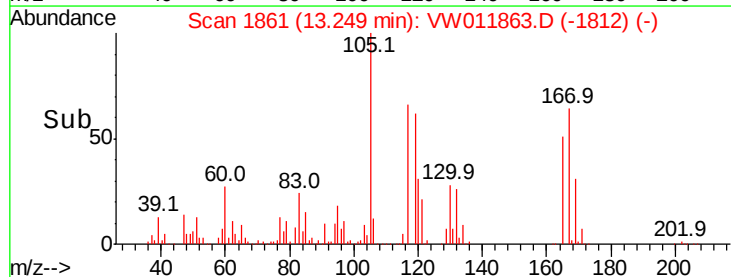
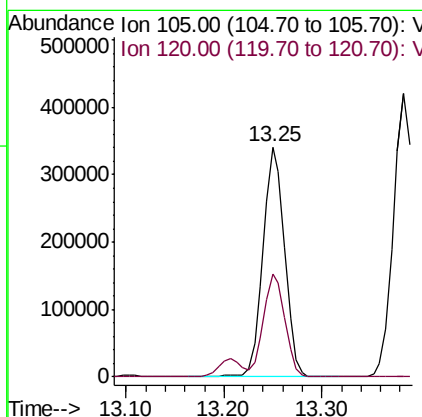
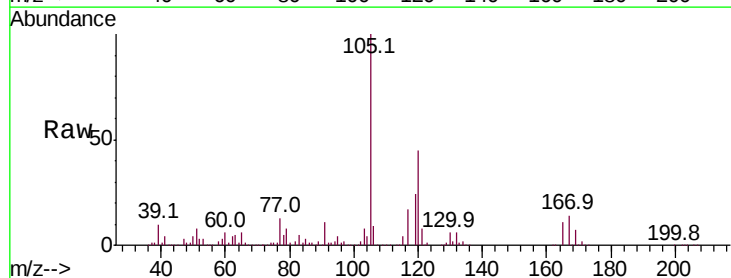
Instrument :  
 MSVOA\_W  
 ClientSampleId :

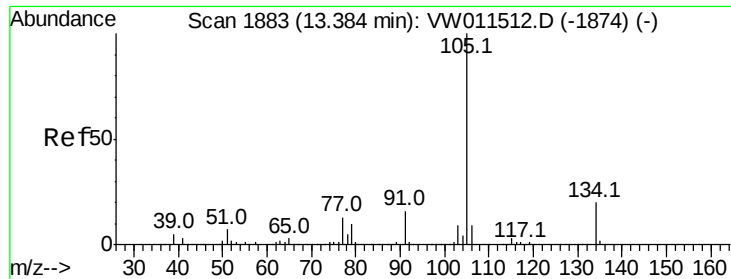
Tot Ion:119 Resp: 436938  
 Ion Ratio Lower Upper  
 119 100  
 91 69.5 34.5 103.6  
 134 24.7 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 53.947 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion:105 Resp: 522997  
 Ion Ratio Lower Upper  
 105 100  
 120 44.4 22.1 66.5

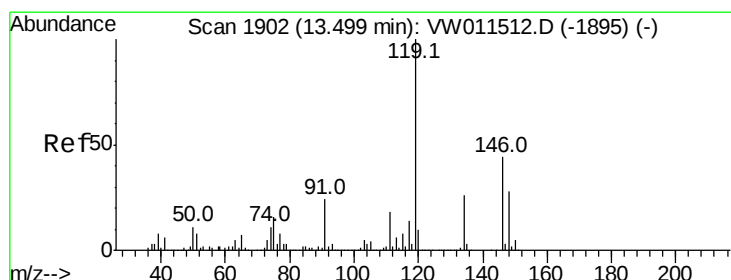
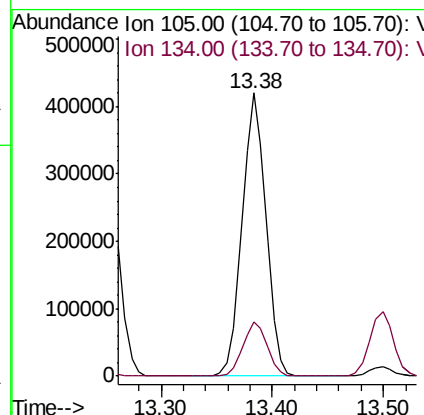
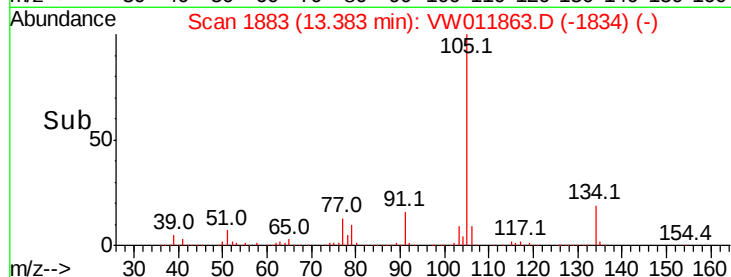
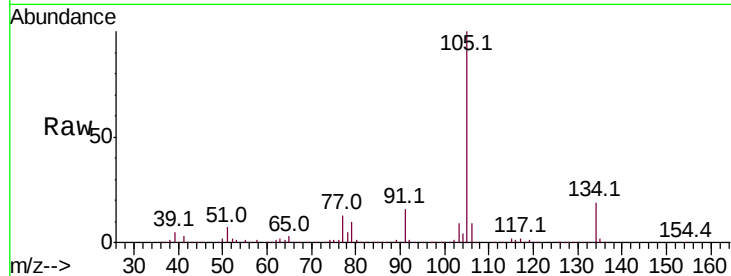




#85  
 sec-Butylbenzene  
 Concen: 54.074 ug/l  
 RT: 13.38 min Scan# 1883  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

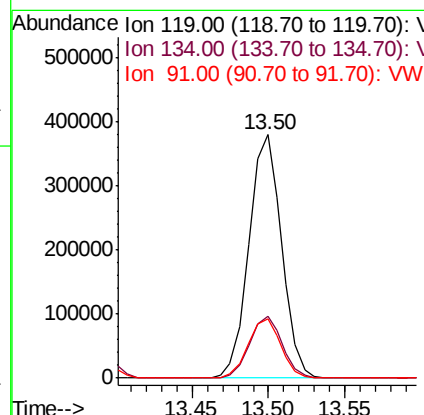
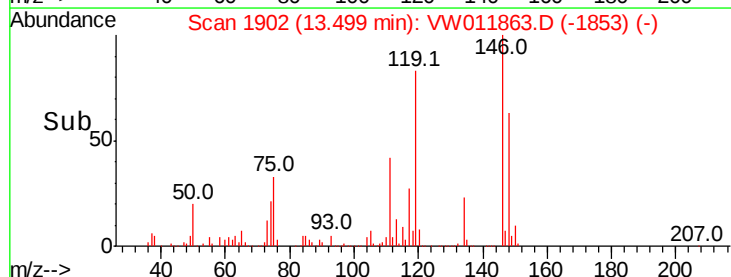
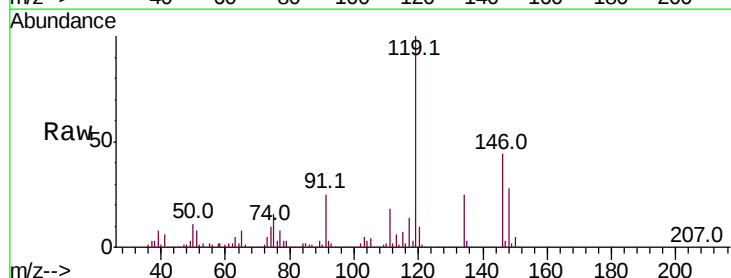
Instrument :  
 MSVOA\_W  
 ClientSampleId :

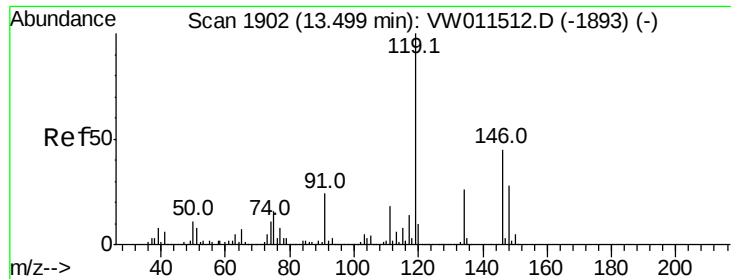
Tot Ion:105 Resp: 620942  
 Ion Ratio Lower Upper  
 105 100  
 134 19.6 9.7 29.1



#86  
 p-Isopropyltoluene  
 Concen: 53.837 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion:119 Resp: 560924  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 12.8 38.4  
 91 24.5 12.1 36.3

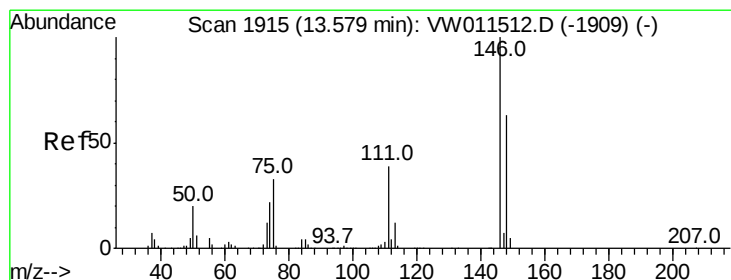
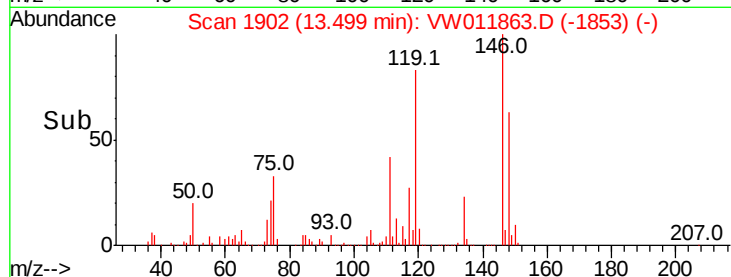
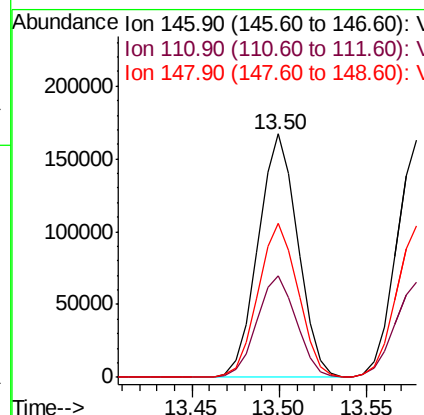
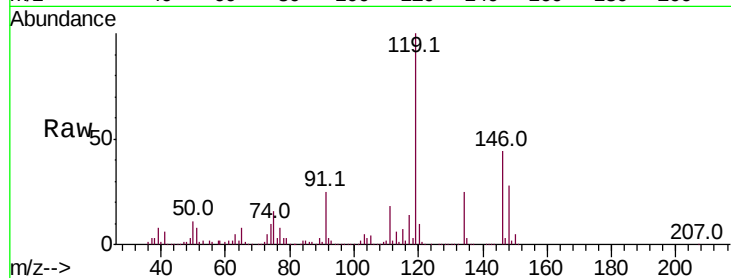




#87  
 1,3-Dichlorobenzene  
 Concen: 52.772 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

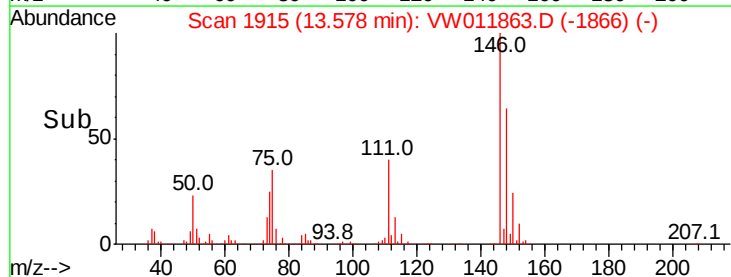
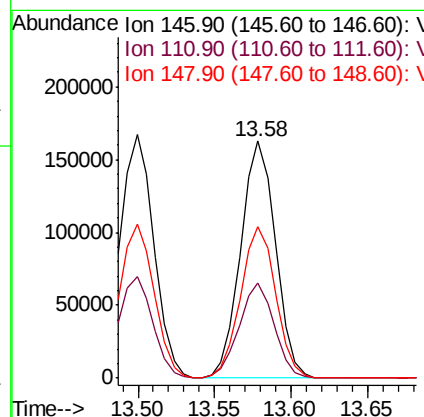
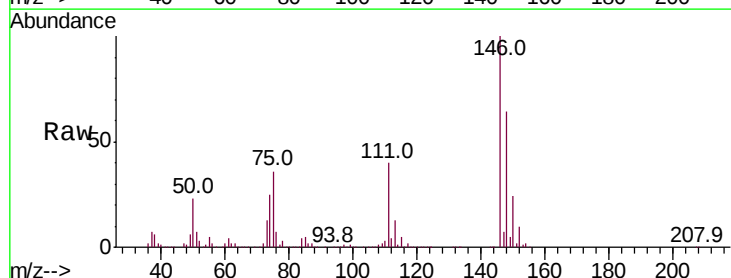
Instrument :  
 MSVOA\_W  
 ClientSampleId :

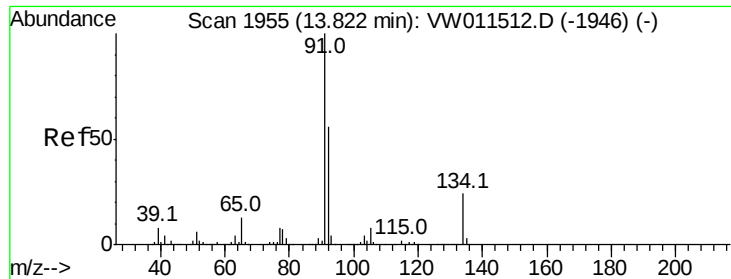
Tot Ion:146 Resp: 262579  
 Ion Ratio Lower Upper  
 146 100  
 111 41.5 20.5 61.6  
 148 63.8 31.8 95.3



#88  
 1,4-Dichlorobenzene  
 Concen: 51.990 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Tgt Ion:146 Resp: 257331  
 Ion Ratio Lower Upper  
 146 100  
 111 40.4 20.1 60.2  
 148 64.3 31.9 95.9

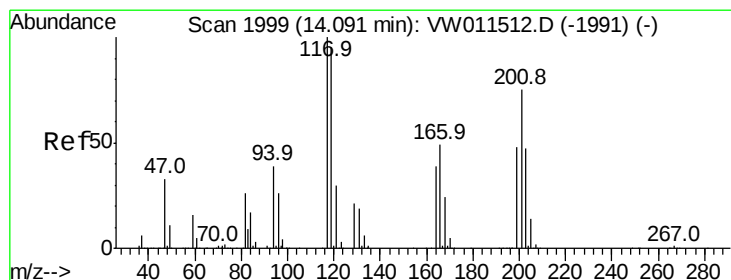
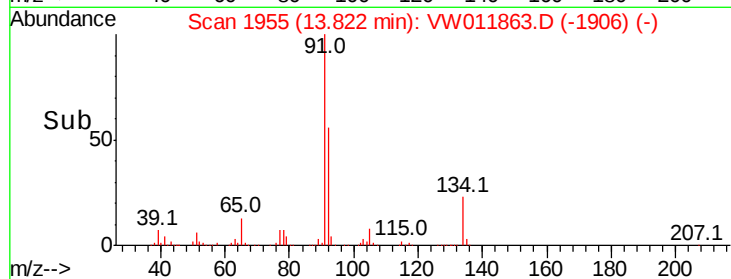
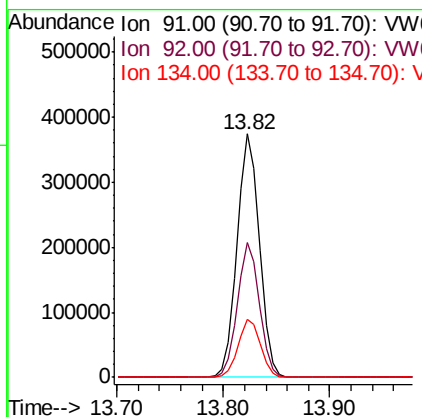
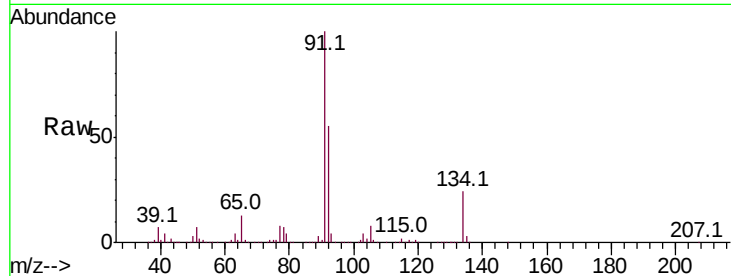




#89  
n-Butylbenzene  
Concen: 53.179 ug/l  
RT: 13.82 min Scan# 1955  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

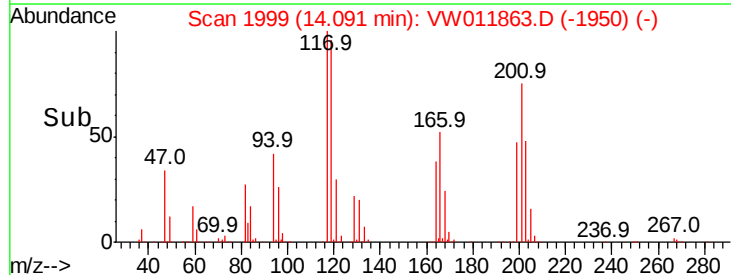
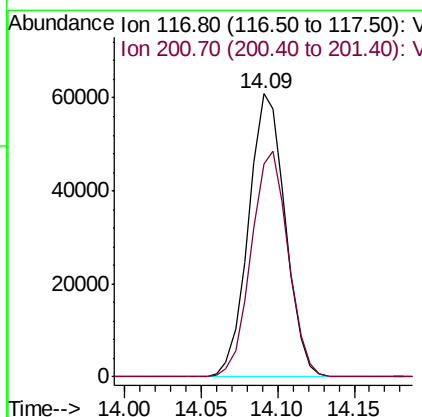
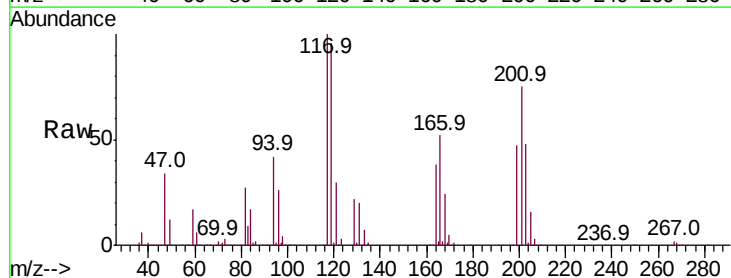
Instrument :  
MSVOA\_W  
ClientSampled :

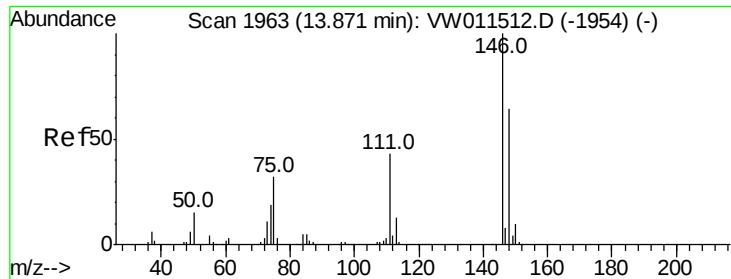
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.4  | 27.5  | 82.4  |
| 134     | 24.0  | 12.2  | 36.6  |



#90  
Hexachloroethane  
Concen: 55.183 ug/l  
RT: 14.09 min Scan# 1999  
Delta R.T. -0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 80.2  | 39.4  | 118.2 |

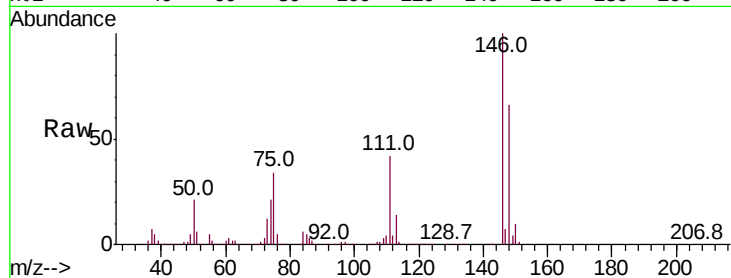




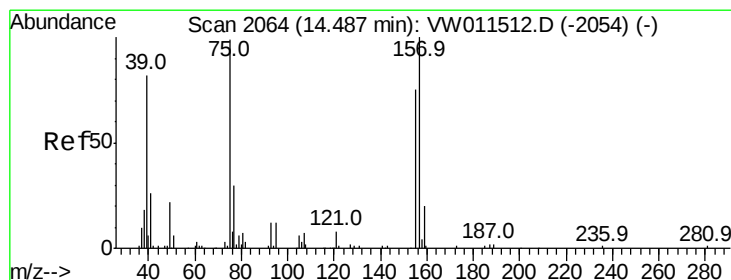
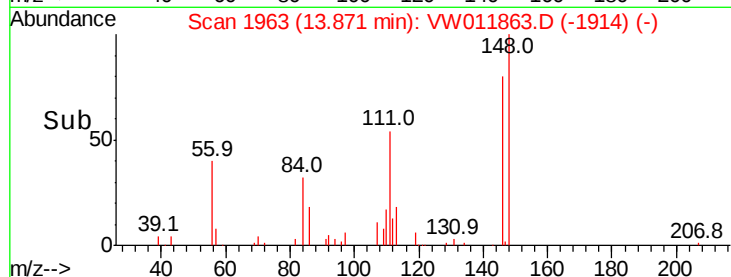
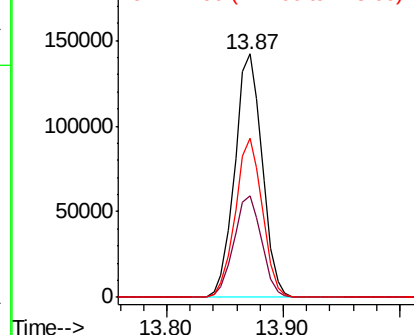
#91  
 1,2-Dichlorobenzene  
 Concen: 52.833 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.3  | 21.6  | 65.0  |
| 148     | 64.4  | 32.0  | 96.2  |

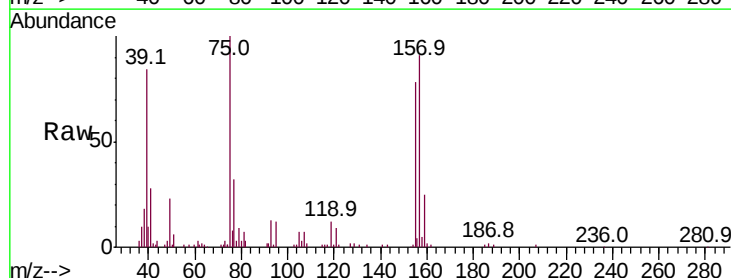


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

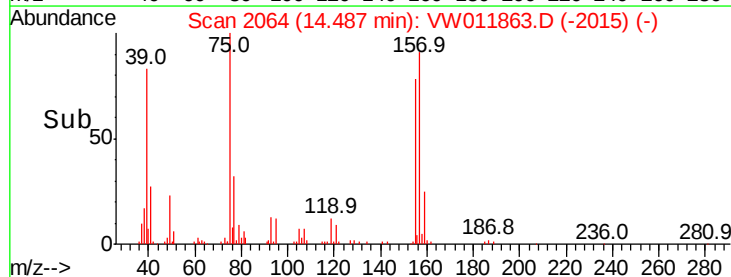
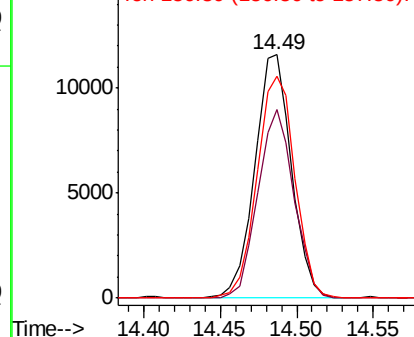


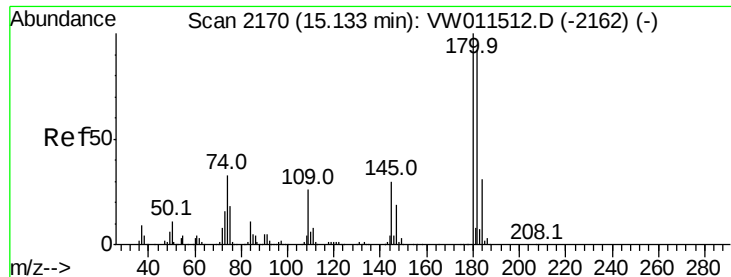
#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 52.363 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 76.3  | 38.2  | 114.6 |
| 157     | 94.2  | 48.9  | 146.7 |



Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 154.80 (154.50 to 155.50): V  
 Ion 156.80 (156.50 to 157.50): V

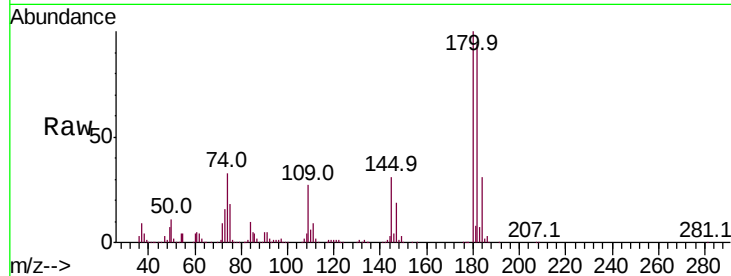




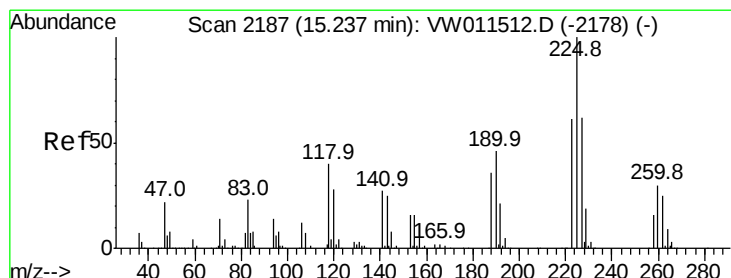
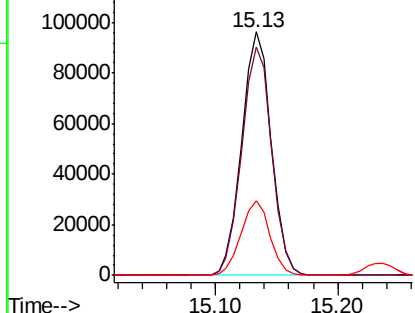
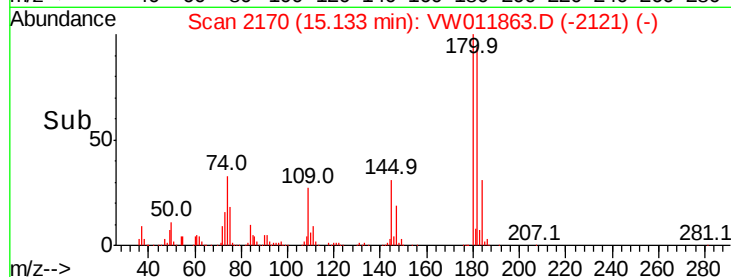
#93  
 1,2,4-Trichlorobenzene  
 Concen: 52.006 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.1  | 47.4  | 142.2 |
| 145     | 30.1  | 15.4  | 46.1  |

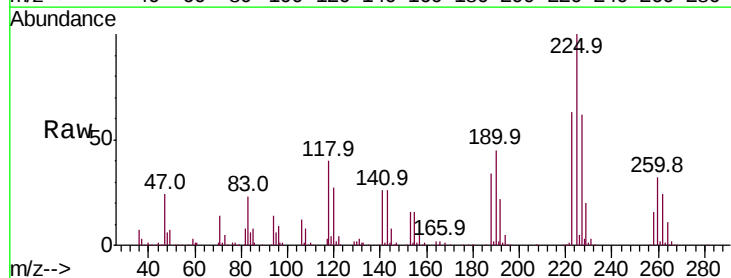


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

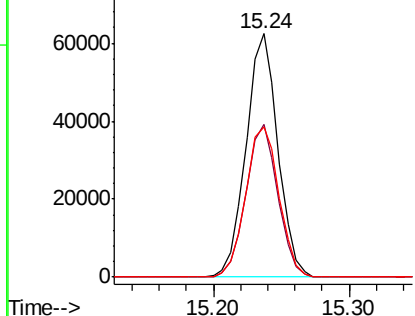
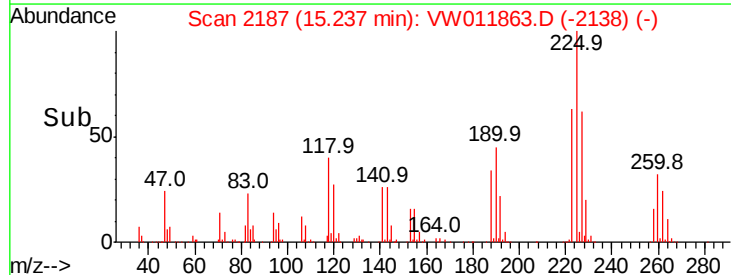


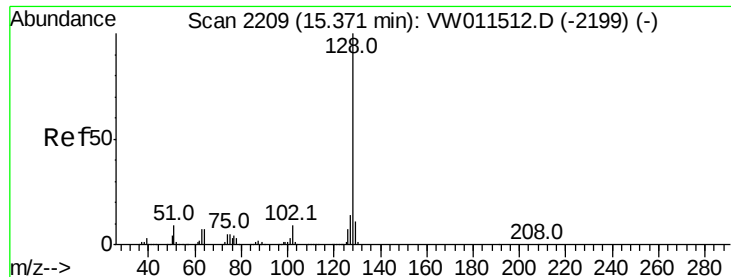
#94  
 Hexachlorobutadiene  
 Concen: 52.833 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW011863.D  
 Acq: 12 Aug 2019 19:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.0  | 30.8  | 92.3  |
| 227     | 64.7  | 31.6  | 94.7  |



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

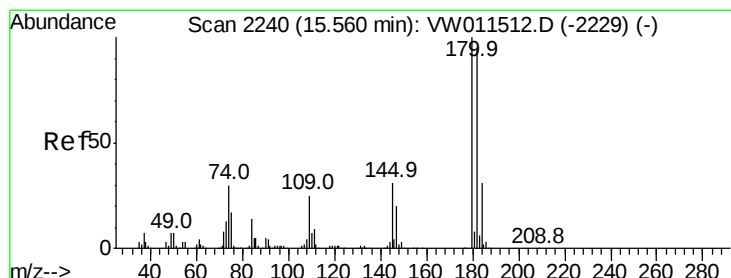
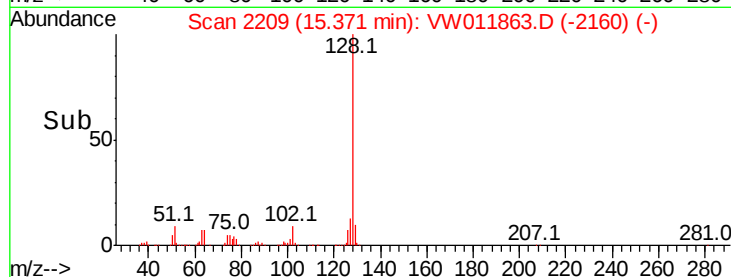
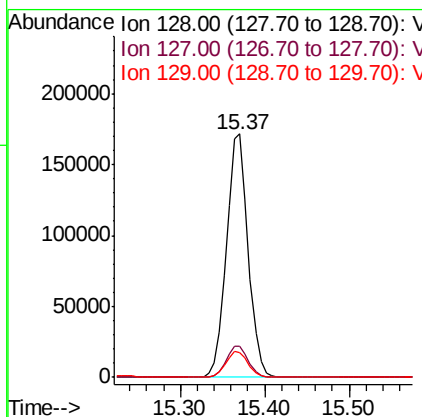
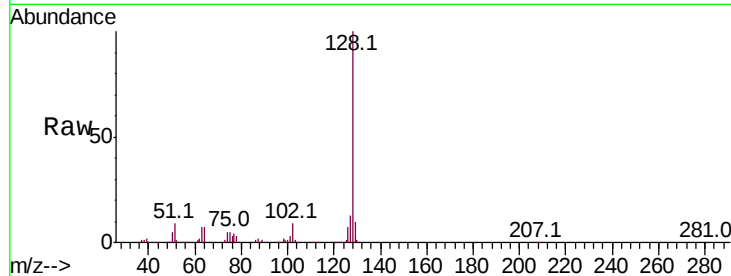




#95  
Naphthalene  
Concen: 49.473 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:128 Resp: 300431  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.6 16.0  
129 10.9 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 52.940 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.01 min  
Lab File: VW011863.D  
Acq: 12 Aug 2019 19:59

Tgt Ion:180 Resp: 143925  
Ion Ratio Lower Upper  
180 100  
182 94.4 47.4 142.2  
145 31.6 15.9 47.7

