

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW040419\  
 Data File : VW009686.D  
 Acq On : 04 Apr 2019 10:12  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Apr 05 05:40:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W032919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 29 13:24:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 340418   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 520698   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 469330   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 244662   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 203837   | 52.36 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.72% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 175651   | 53.71 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.42% |      |
| 50) Toluene-d8              | 10.32  | 98  | 664124   | 54.94 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 109.88% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 249620   | 55.36 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 110.72% |      |

| Target Compounds              |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 112441  | 53.802  | ug/l   | 98     |
| 3) Chloromethane              | 2.21 | 50  | 124461  | 43.401  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.37 | 62  | 179963  | 46.987  | ug/l   | 98     |
| 5) Bromomethane               | 2.78 | 94  | 127278  | 43.074  | ug/l   | 98     |
| 6) Chloroethane               | 2.93 | 64  | 128424  | 45.277  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 129793  | 49.598  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.67 | 74  | 85546   | 48.684  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 185815  | 52.922  | ug/l   | 95     |
| 10) Methyl Iodide             | 4.26 | 142 | 248980  | 51.970  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 5.17 | 59  | 59638   | 264.229 | ug/l # | 82     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 171378  | 52.158  | ug/l   | 97     |
| 13) Acrolein                  | 3.89 | 56  | 43777   | 264.441 | ug/l   | 96     |
| 14) Allyl chloride            | 4.65 | 41  | 304520  | 57.944  | ug/l   | 97     |
| 15) Acrylonitrile             | 5.36 | 53  | 205929  | 256.390 | ug/l   | 100    |
| 16) Acetone                   | 4.12 | 43  | 262792  | 300.253 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.37 | 76  | 467919  | 50.048  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 110513  | 52.235  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 258090  | 56.476  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.91 | 84  | 181186  | 53.000  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96  | 181325  | 51.976  | ug/l   | 92     |
| 22) Diisopropyl ether         | 6.31 | 45  | 617675  | 54.422  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.25 | 43  | 1907363 | 269.385 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 359312  | 52.598  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 321165  | 265.541 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 226755  | 58.058  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 203040  | 53.292  | ug/l   | 94     |
| 28) Bromochloromethane        | 7.51 | 49  | 152899  | 51.653  | ug/l # | 93     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 190024  | 253.025 | ug/l   | 98     |
| 30) Chloroform                | 7.67 | 83  | 371893  | 52.563  | ug/l   | 100    |
| 31) Cyclohexane               | 7.95 | 56  | 327406  | 51.122  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 315327  | 55.052  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 290199  | 53.883  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 132014  | 51.594  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.06 | 117 | 300360  | 54.427  | ug/l   | 99     |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Apr 05 05:40:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W032919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 29 13:24:53 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.33  | 83   | 343648   | 55.859   | ug/l   | 97       |
| 40) Benzene                    | 8.32  | 78   | 763404   | 52.331   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 72568    | 44.056   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 260608   | 52.401   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 261544   | 52.157   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 200505   | 53.090   | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 192359   | 51.516   | ug/l   | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 100371   | 49.620   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.64  | 83   | 269987   | 52.325   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 125445   | 53.366   | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 31289    | 1038.703 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 678885   | 253.034  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 489460   | 53.577   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 273969   | 54.227   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 305497   | 54.536   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 139416   | 50.990   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 182133   | 48.242   | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 252431   | 52.085   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 443267   | 243.414  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 502353   | 270.546  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 170261   | 51.572   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 133663   | 50.979   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 166664   | 52.301   | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 529089   | 53.526   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 192968   | 53.579   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 999623   | 57.400   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 751376   | 113.628  | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 346199   | 56.219   | ug/l   | 97       |
| 70) Styrene                    | 12.18 | 104  | 572777   | 55.686   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 101060   | 52.141   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 1015994  | 59.671   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 246802   | 54.984   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 165728   | 51.469   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 236987   | 103.003  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 214410   | 54.683   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.80 | 91   | 1239954  | 59.058   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 692141   | 58.008   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 850131   | 59.288   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 54202    | 54.784   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 725118   | 57.745   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 730227   | 59.824   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 860978   | 58.408   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 1083110  | 58.816   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 947299   | 59.142   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 443917   | 54.833   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 433928   | 53.662   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 930583   | 58.860   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 174444   | 56.874   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 393451   | 54.348   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 31186    | 53.054   | ug/l   | 96       |

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Data File : VW009686.D  
Acq On : 04 Apr 2019 10:12  
Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

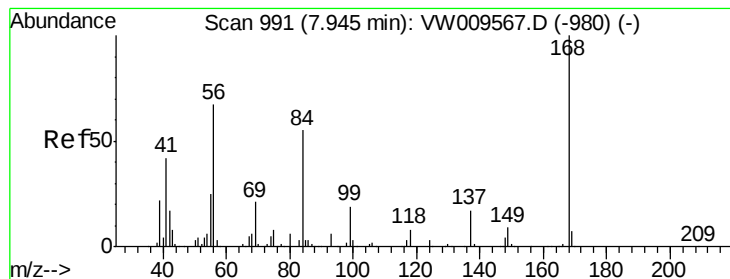
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Quant Time: Apr 05 05:40:48 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W032919S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 29 13:24:53 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 263350   | 56.486 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 161358   | 53.892 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 479911   | 50.612 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 226090   | 54.278 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

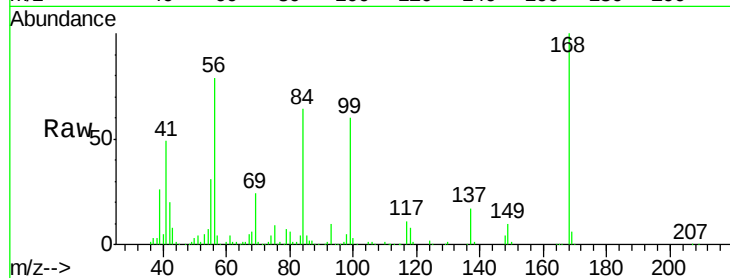
VSTDCCC050

Tgt Ion:168 Resp: 340418

Ion Ratio Lower Upper

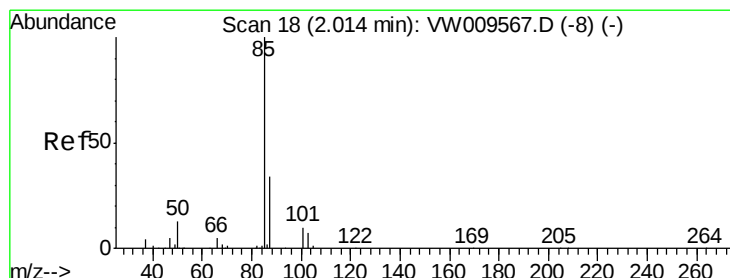
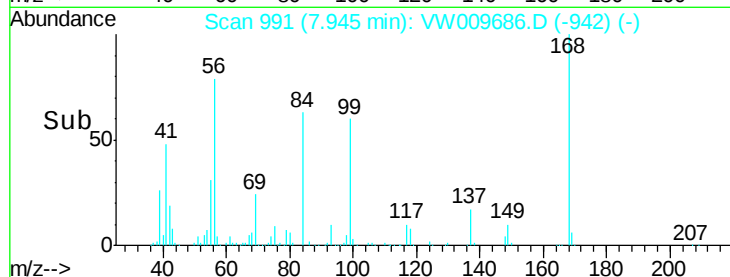
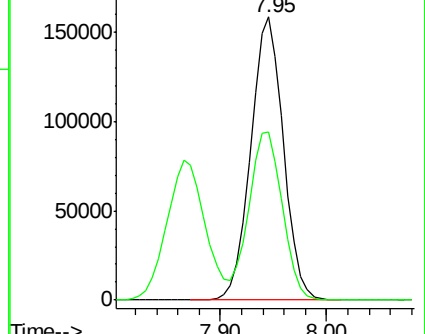
168 100

99 59.5 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 53.802 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW009686.D

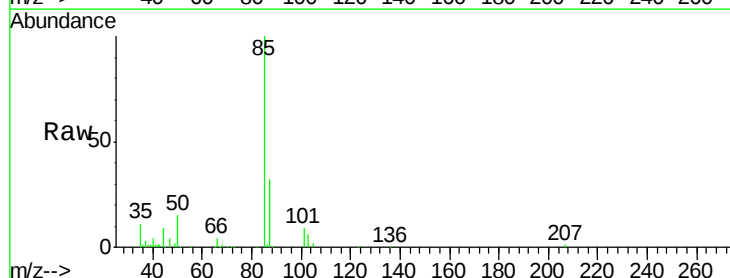
Acq: 04 Apr 2019 10:12

Tgt Ion: 85 Resp: 112441

Ion Ratio Lower Upper

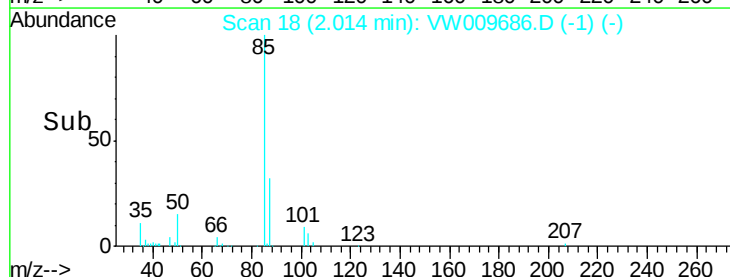
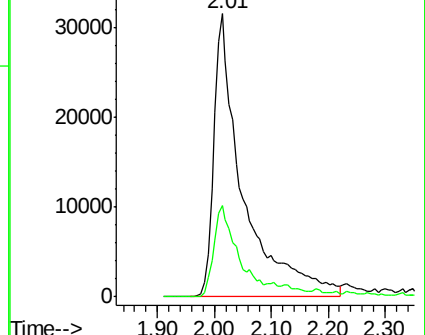
85 100

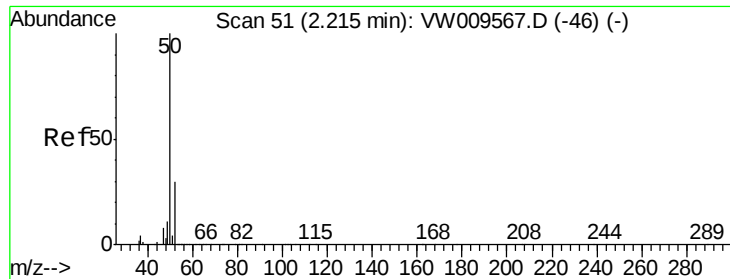
87 32.3 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 43.401 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

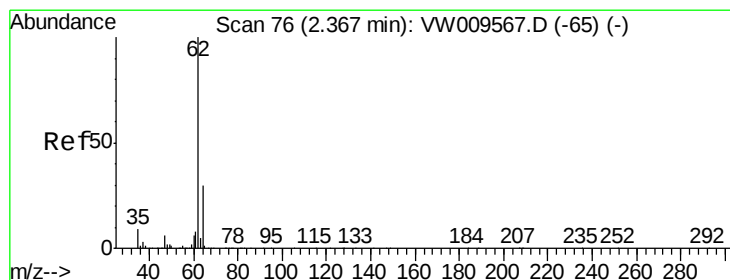
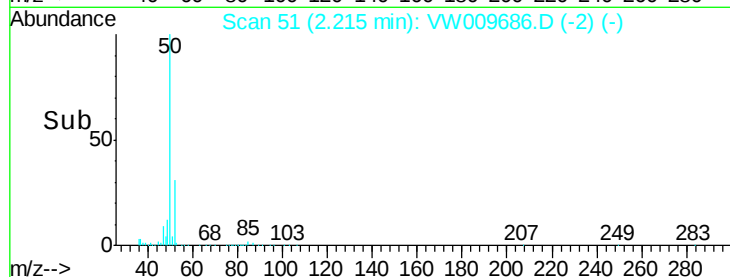
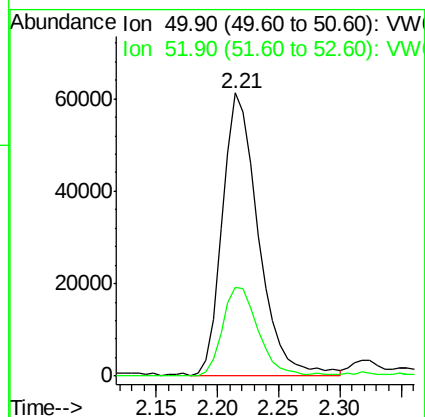
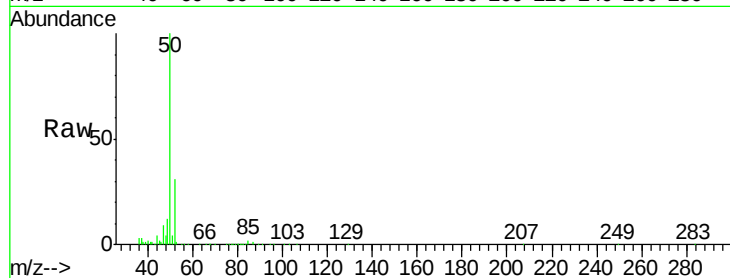
VSTDCCC050

Tgt Ion: 50 Resp: 124461

Ion Ratio Lower Upper

50 100

52 31.5 27.2 40.8



#4

Vinyl Chloride

Concen: 46.987 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW009686.D

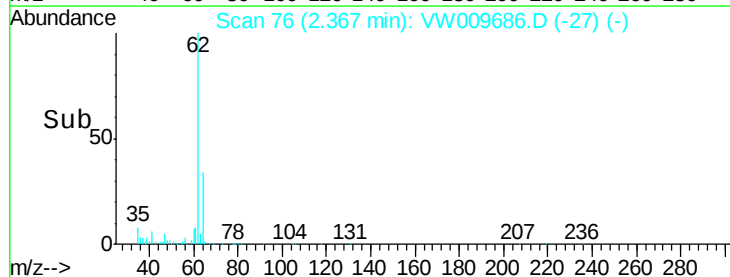
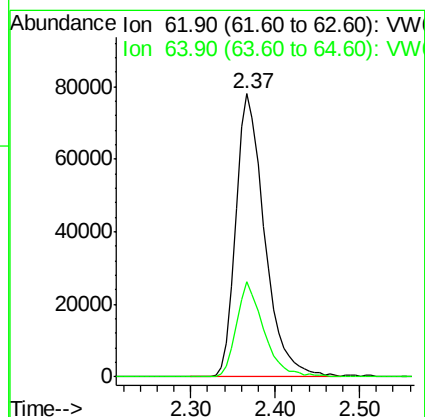
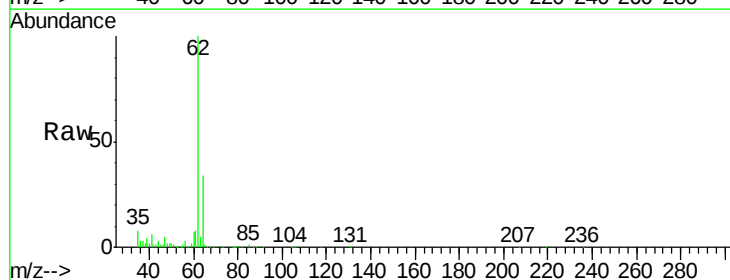
Acq: 04 Apr 2019 10:12

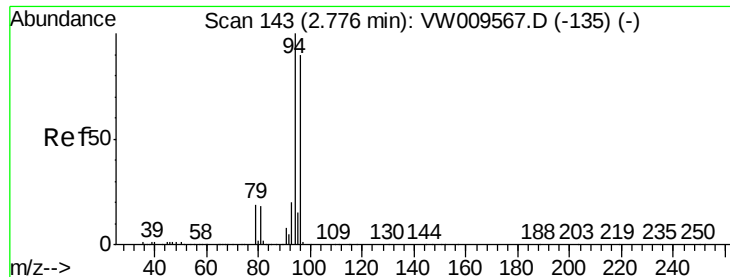
Tgt Ion: 62 Resp: 179963

Ion Ratio Lower Upper

62 100

64 33.7 26.2 39.2





#5

Bromomethane

Concen: 43.074 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

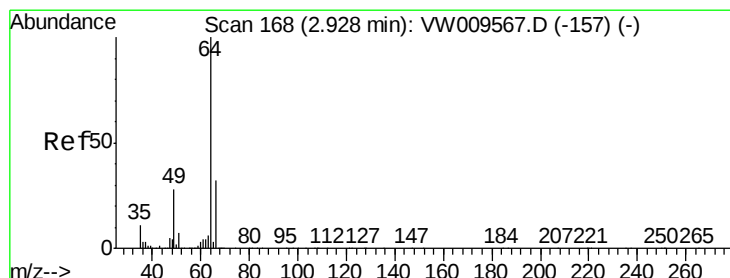
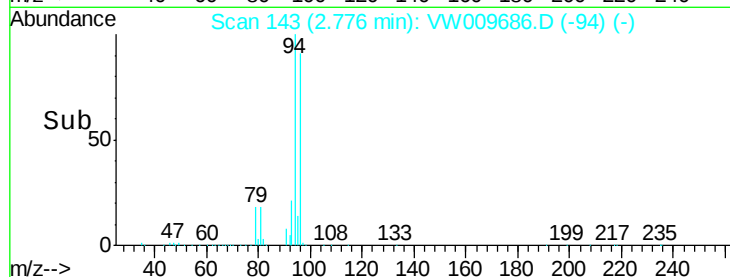
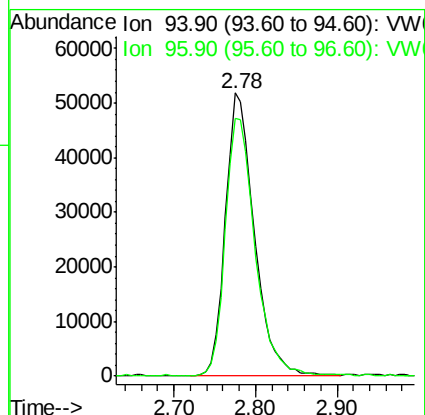
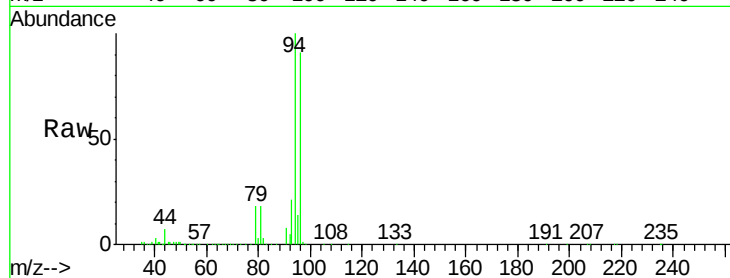
VSTDCCC050

Tgt Ion: 94 Resp: 127278

Ion Ratio Lower Upper

94 100

96 90.9 71.4 107.2



#6

Chloroethane

Concen: 45.277 ug/l

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW009686.D

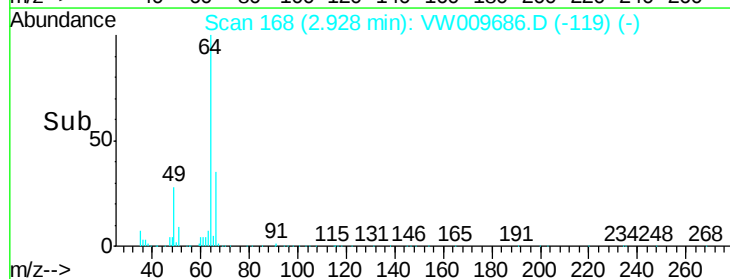
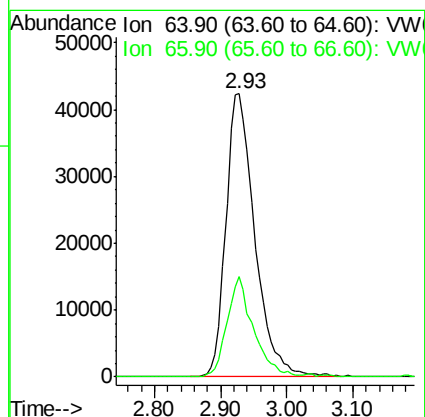
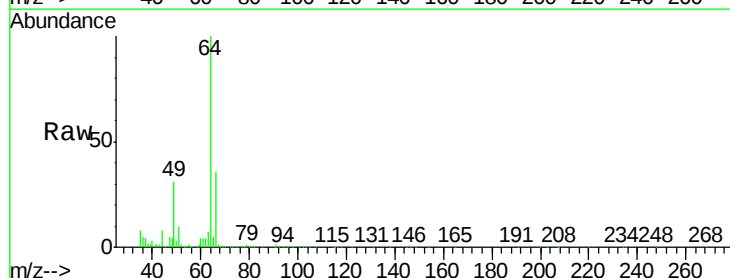
Acq: 04 Apr 2019 10:12

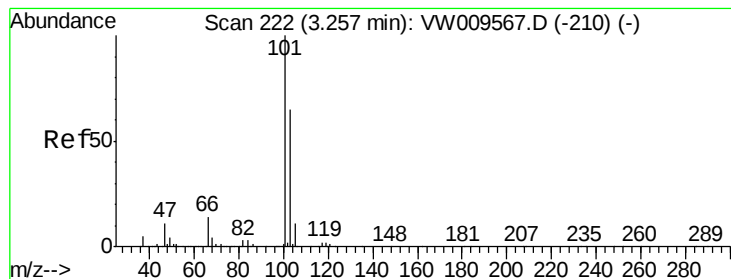
Tgt Ion: 64 Resp: 128424

Ion Ratio Lower Upper

64 100

66 35.6 26.2 39.2



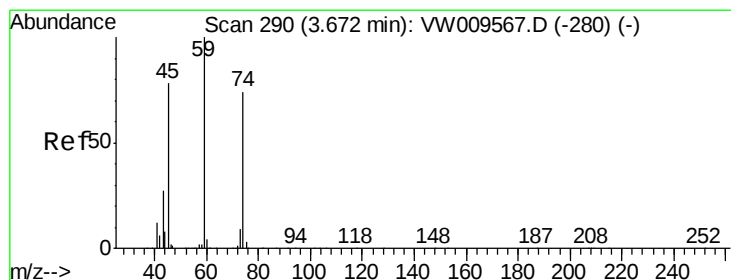
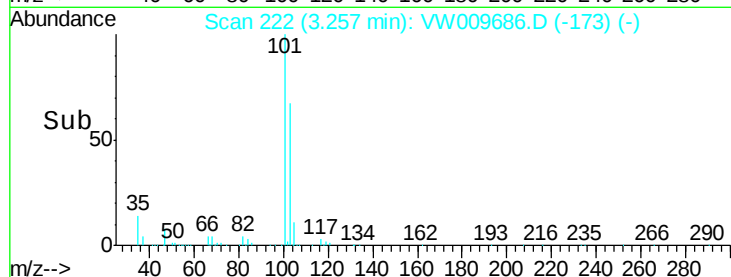
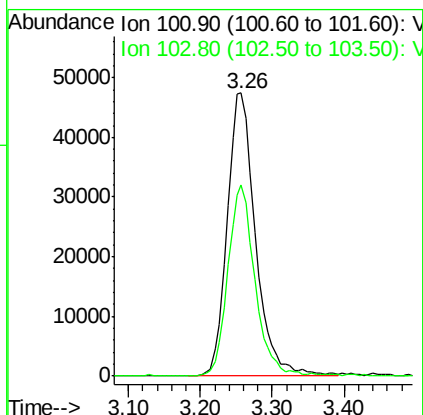
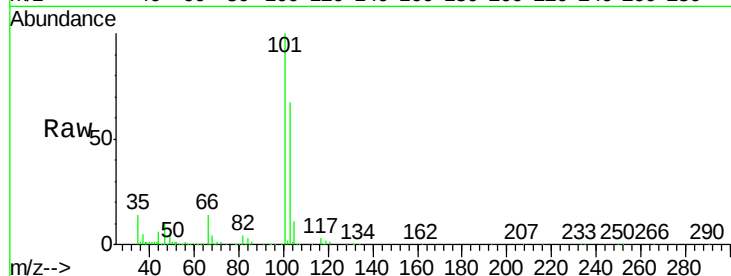


#7

Trichlorofluoromethane  
 Concen: 49.598 ug/l  
 RT: 3.26 min Scan# 222  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

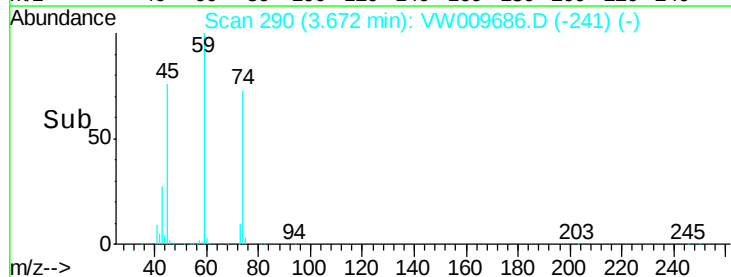
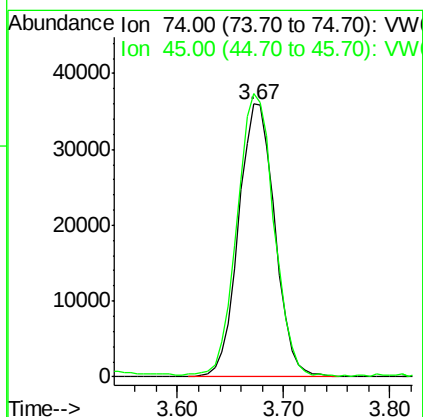
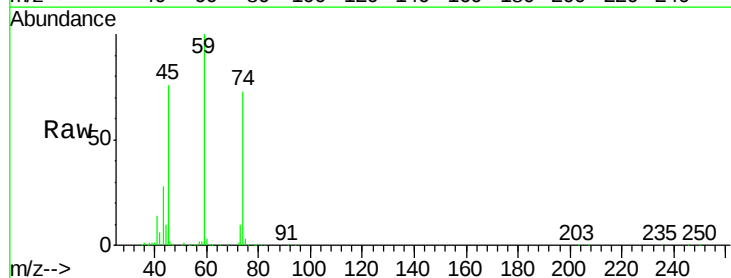
Tgt Ion: 101 Resp: 129793  
 Ion Ratio Lower Upper  
 101 100  
 103 67.4 50.5 75.7

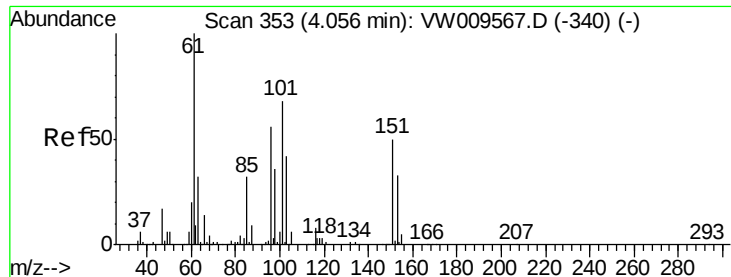


#8

Diethyl Ether  
 Concen: 48.684 ug/l  
 RT: 3.67 min Scan# 290  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Tgt Ion: 74 Resp: 85546  
 Ion Ratio Lower Upper  
 74 100  
 45 106.8 50.6 151.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.922 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

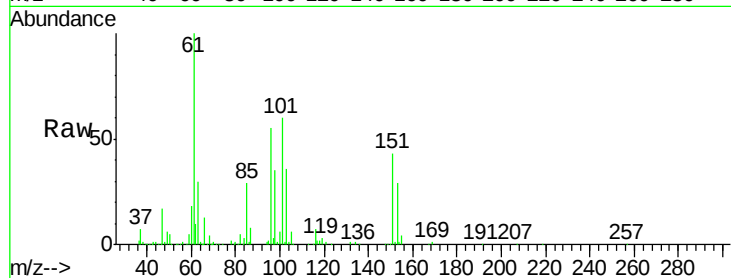
Tgt Ion:101 Resp: 185815

Ion Ratio Lower Upper

101 100

85 46.6 35.1 52.7

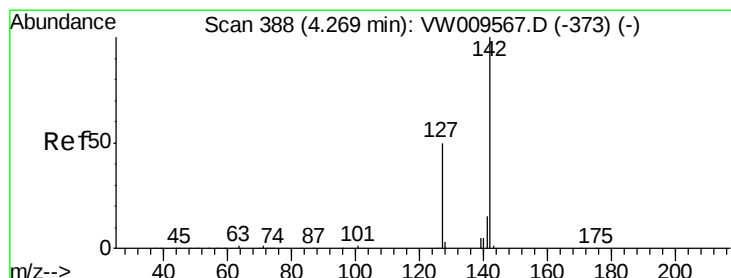
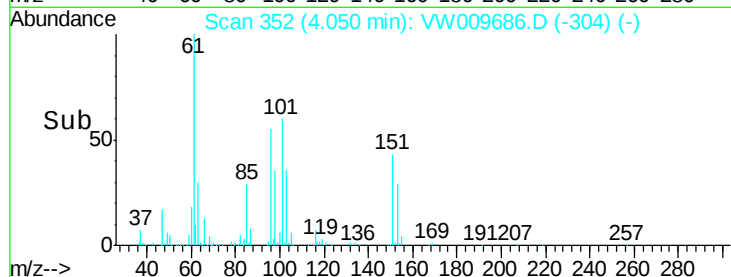
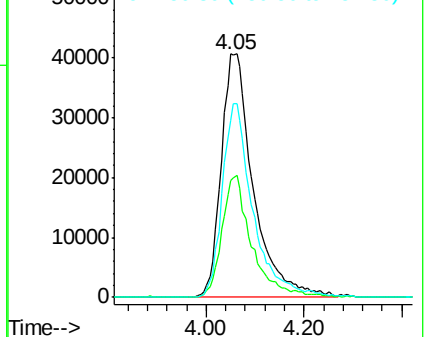
151 74.4 62.9 94.3



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: 51.970 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

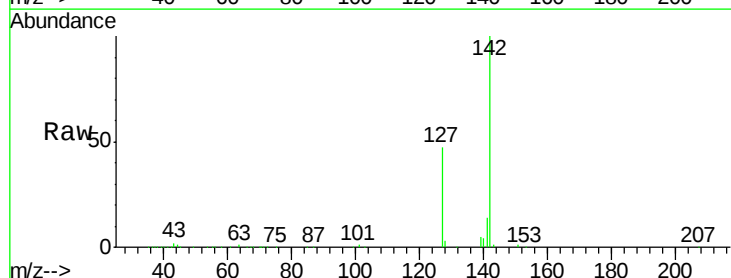
Tgt Ion:142 Resp: 248980

Ion Ratio Lower Upper

142 100

127 47.8 35.9 53.9

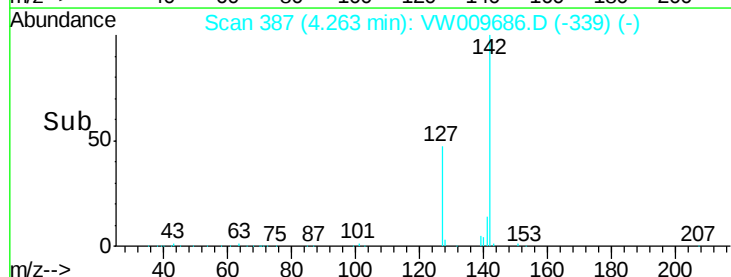
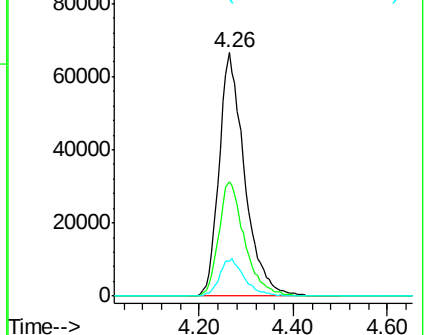
141 15.2 11.4 17.2

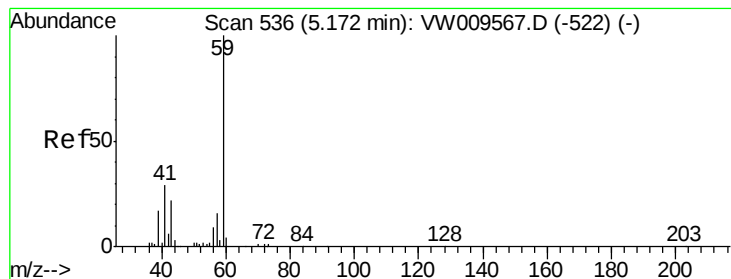


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



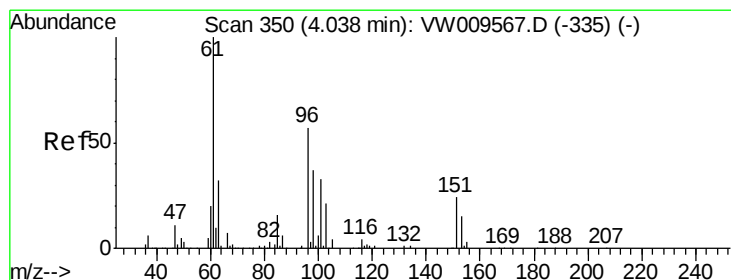
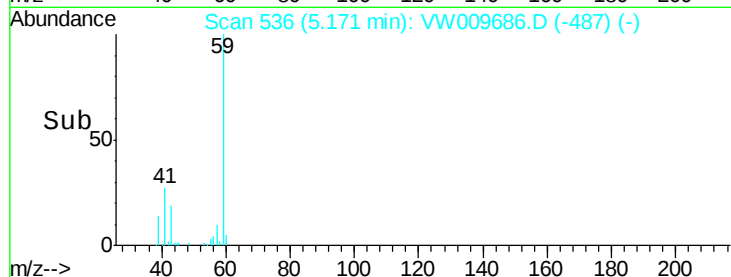
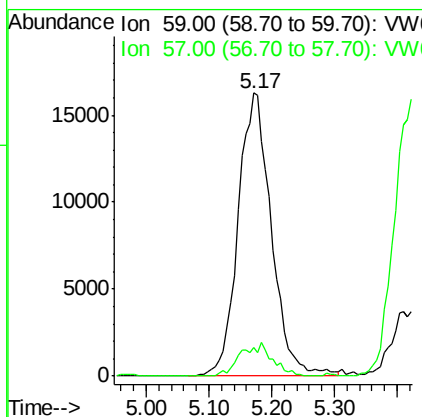
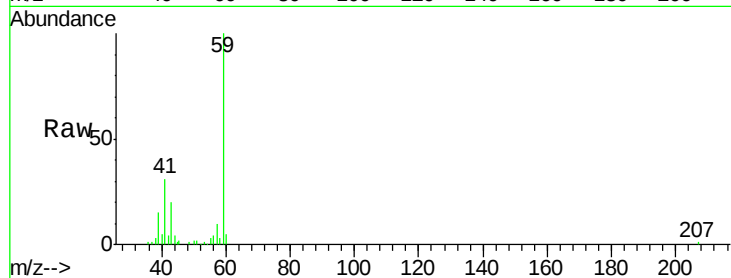


#11

Tert butyl alcohol  
 Concen: 264.229 ug/l  
 RT: 5.17 min Scan# 536  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

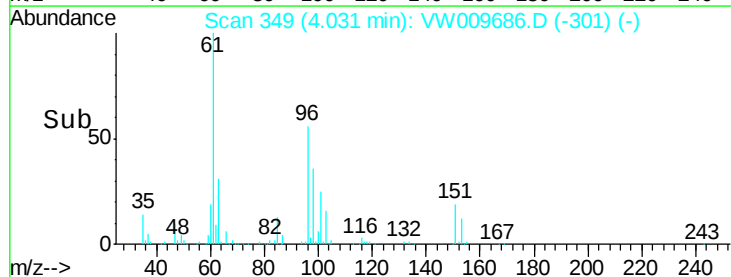
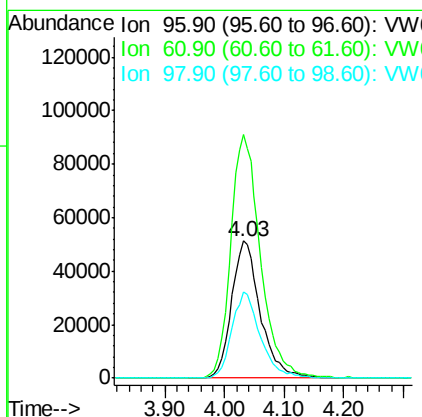
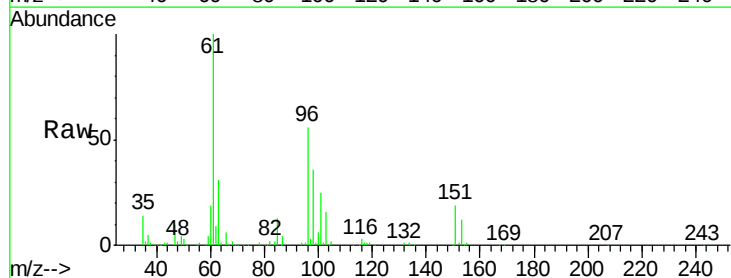
Tgt Ion: 59 Resp: 59638  
 Ion Ratio Lower Upper  
 59 100  
 57 4.6 9.4 14.0#

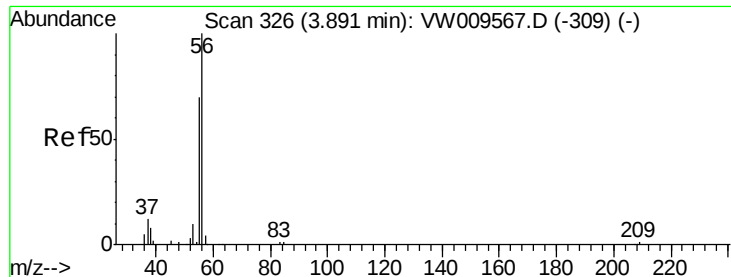


#12

1,1-Dichloroethene  
 Concen: 52.158 ug/l  
 RT: 4.03 min Scan# 349  
 Delta R.T. -0.01 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Tgt Ion: 96 Resp: 171378  
 Ion Ratio Lower Upper  
 96 100  
 61 177.6 138.0 207.0  
 98 63.2 49.8 74.8





#13

Acrolein

Concen: 264.441 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

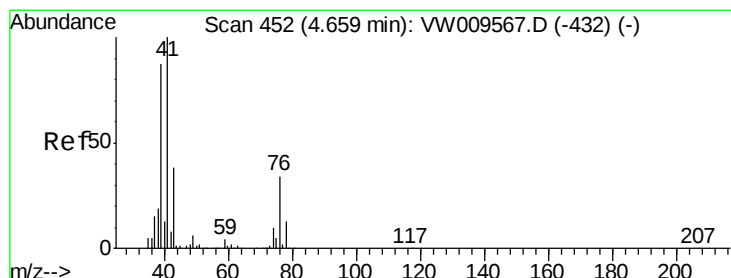
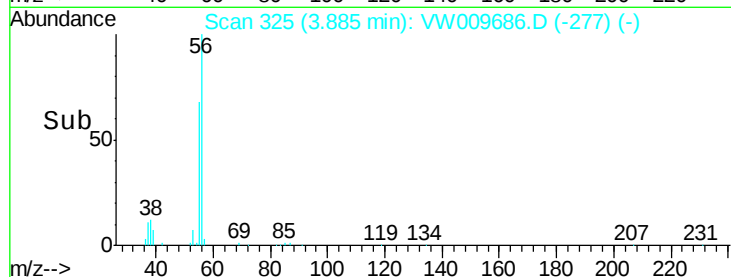
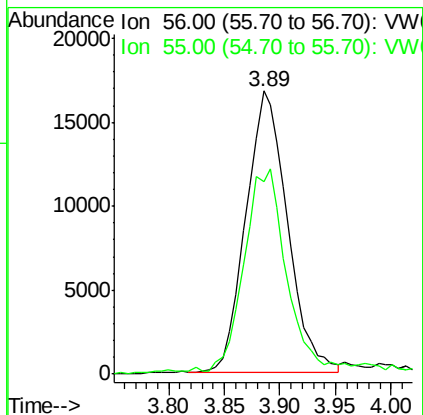
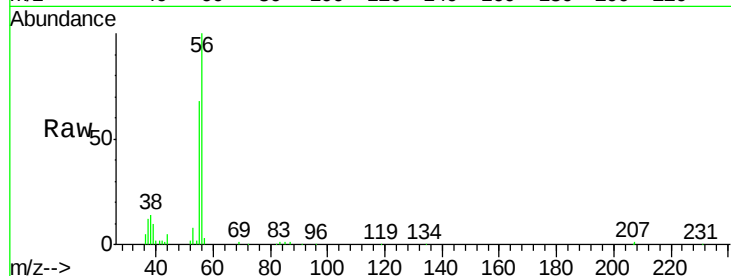
VSTDCCC050

Tgt Ion: 56 Resp: 43777

Ion Ratio Lower Upper

56 100

55 72.6 55.2 82.8



#14

Allyl chloride

Concen: 57.944 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

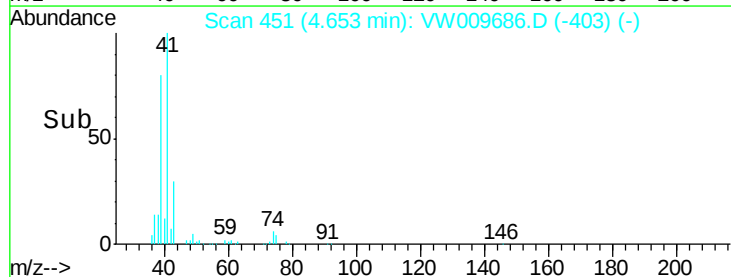
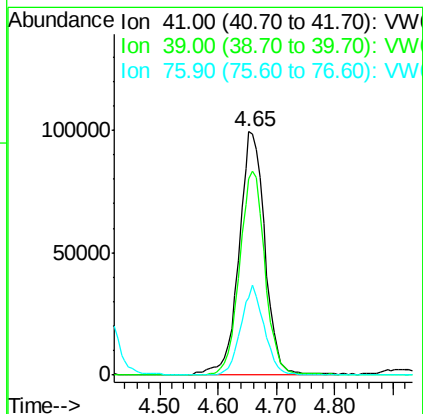
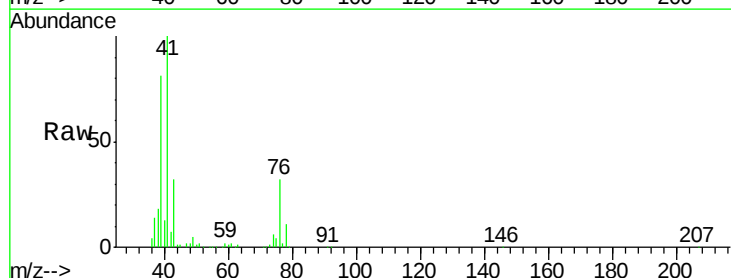
Tgt Ion: 41 Resp: 304520

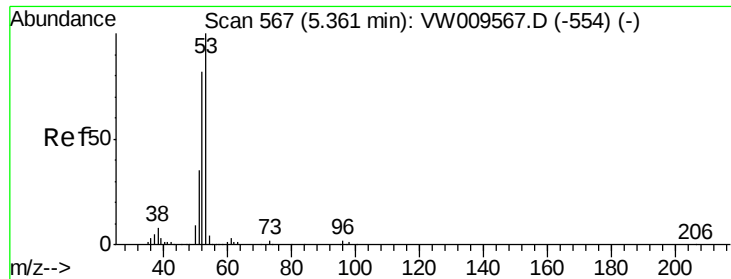
Ion Ratio Lower Upper

41 100

39 82.5 63.8 95.6

76 33.3 27.8 41.6





#15

Acrylonitrile

Concen: 256.390 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

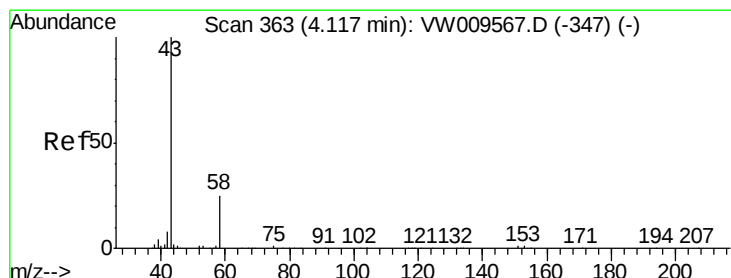
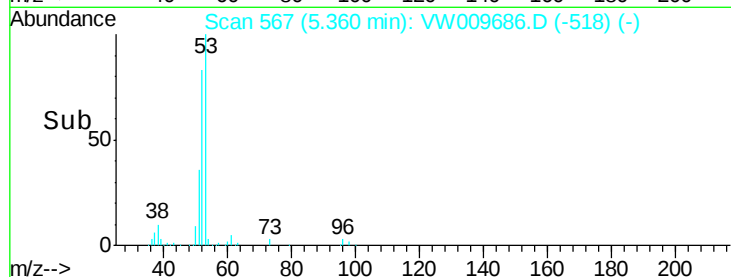
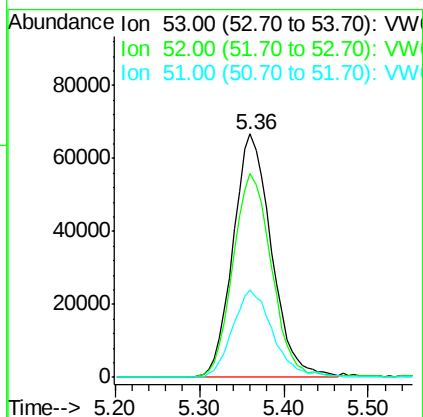
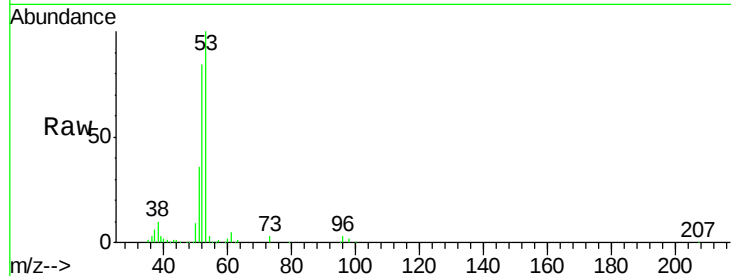
Tgt Ion: 53 Resp: 205929

Ion Ratio Lower Upper

53 100

52 84.5 67.6 101.4

51 38.1 30.6 45.8



#16

Acetone

Concen: 300.253 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW009686.D

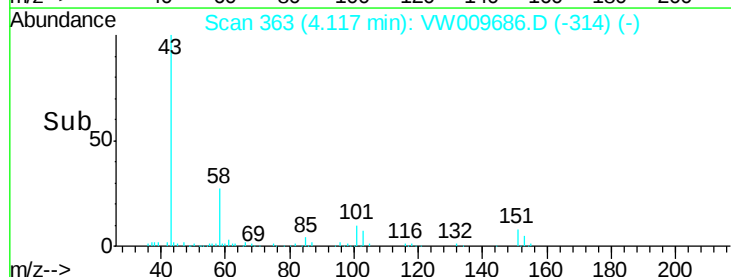
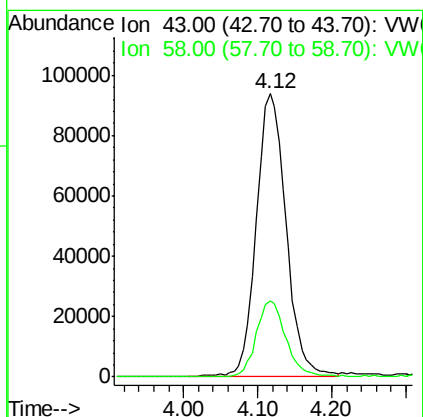
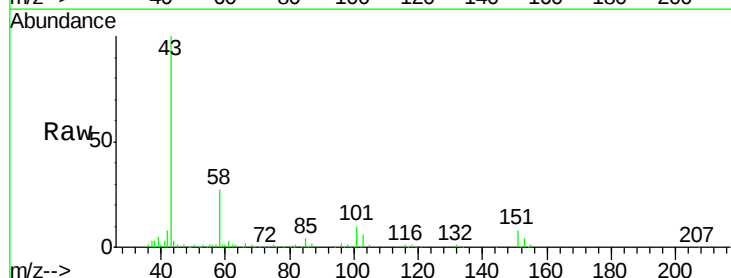
Acq: 04 Apr 2019 10:12

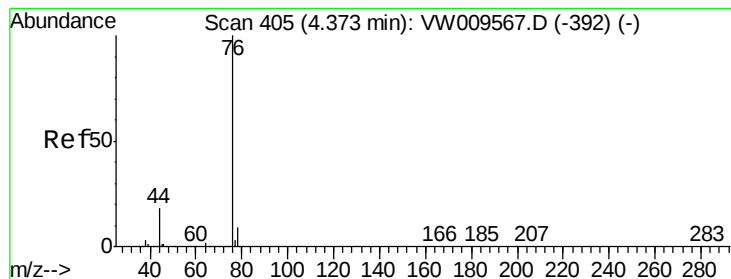
Tgt Ion: 43 Resp: 262792

Ion Ratio Lower Upper

43 100

58 27.0 23.6 35.4





#17

Carbon Disulfide

Concen: 50.048 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

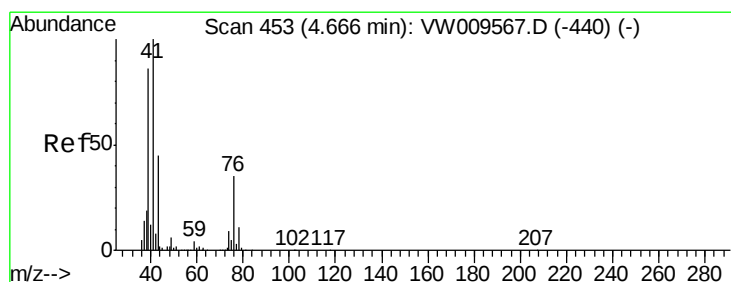
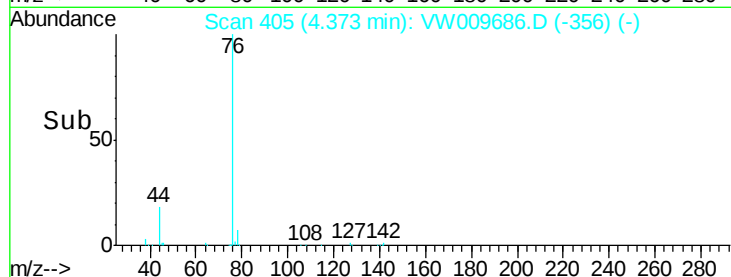
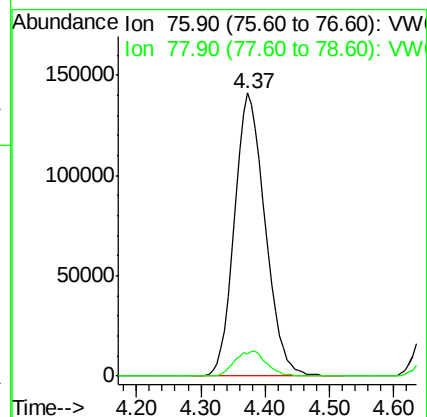
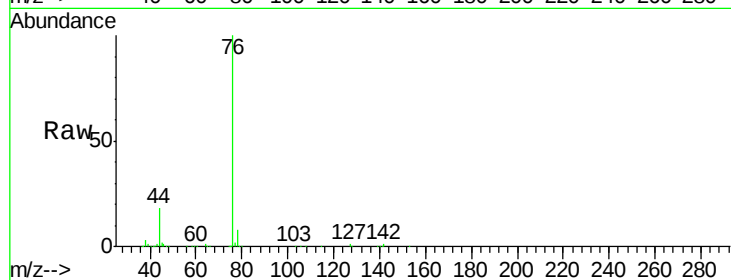
VSTDCCC050

Tgt Ion: 76 Resp: 467919

Ion Ratio Lower Upper

76 100

78 7.8 6.6 9.8



#18

Methyl Acetate

Concen: 52.235 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW009686.D

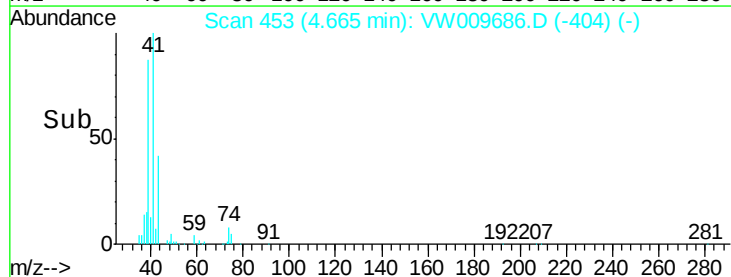
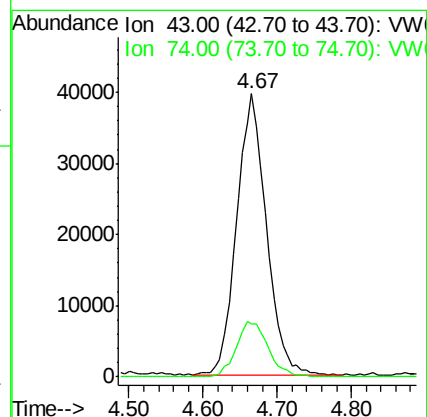
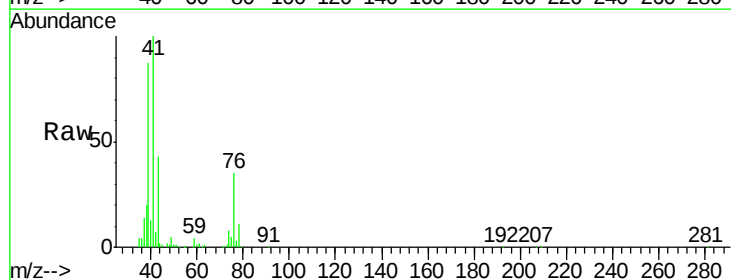
Acq: 04 Apr 2019 10:12

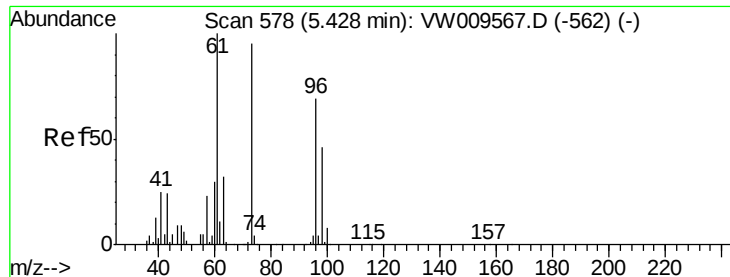
Tgt Ion: 43 Resp: 110513

Ion Ratio Lower Upper

43 100

74 20.8 17.7 26.5

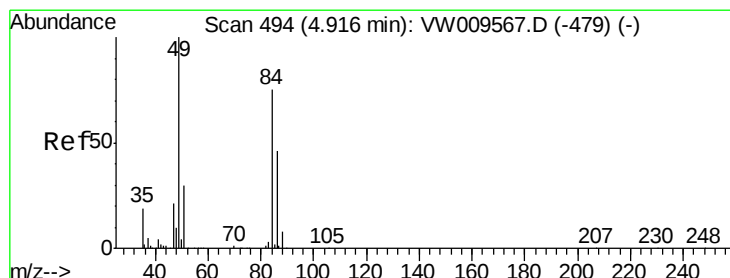
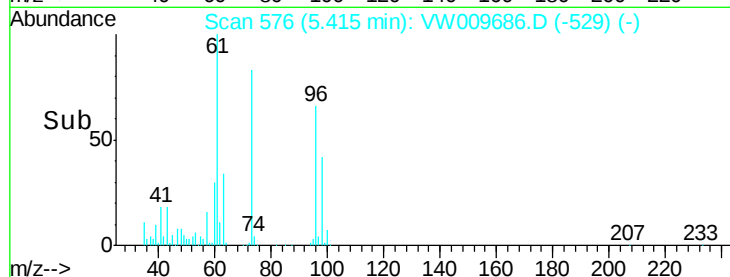
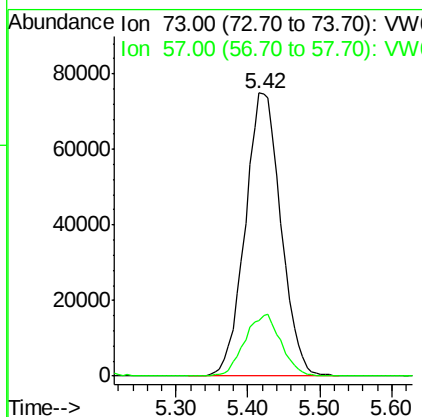
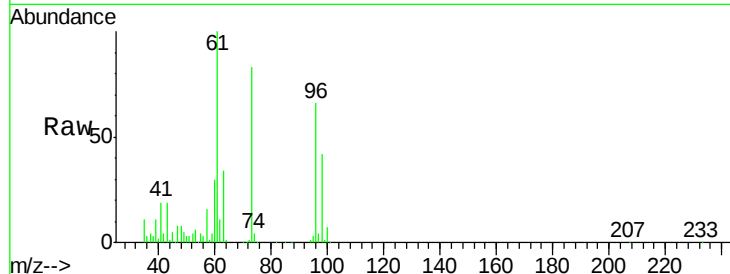




#19  
Methyl tert-butyl Ether  
Concen: 56.476 ug/l  
RT: 5.42 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

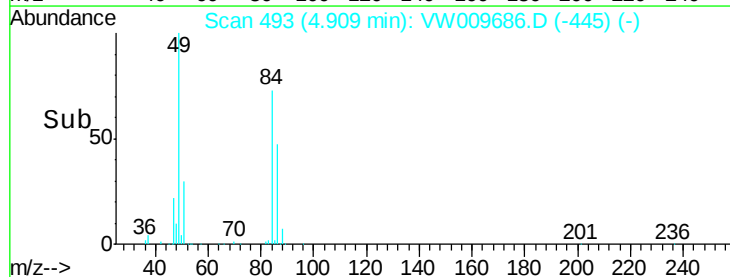
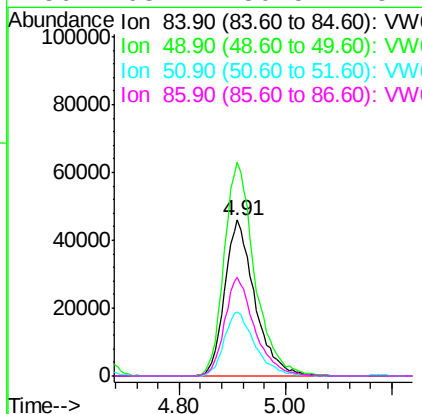
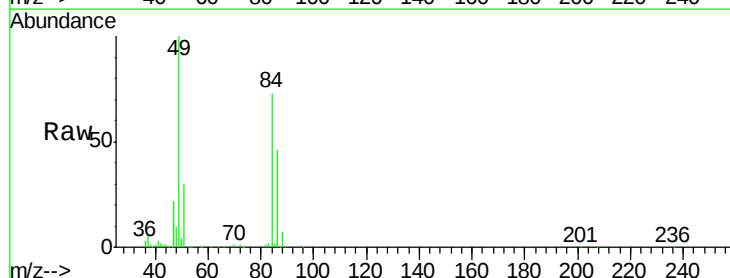
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

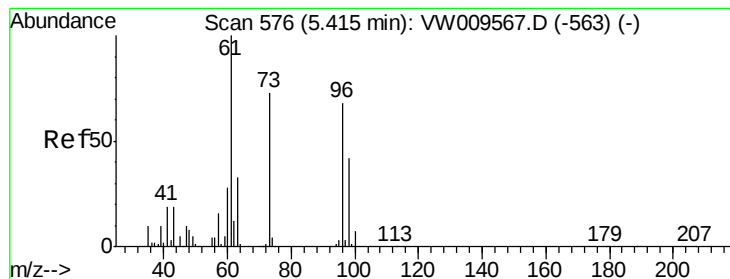
Tgt Ion: 73 Resp: 258090  
Ion Ratio Lower Upper  
73 100  
57 19.7 17.0 25.6



#20  
Methylene Chloride  
Concen: 53.000 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion: 84 Resp: 181186  
Ion Ratio Lower Upper  
84 100  
49 137.3 99.1 148.7  
51 41.0 28.7 43.1  
86 63.4 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 51.976 ug/l

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

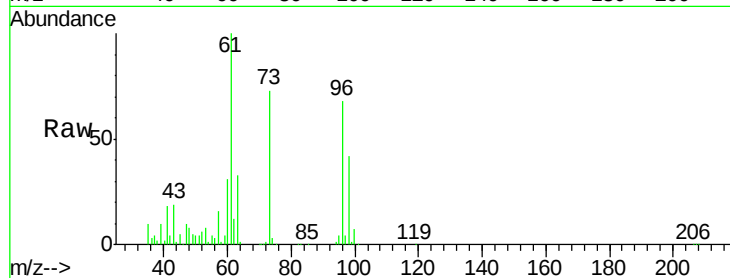
Tgt Ion: 96 Resp: 181325

Ion Ratio Lower Upper

96 100

61 148.0 108.2 162.4

98 61.5 50.9 76.3

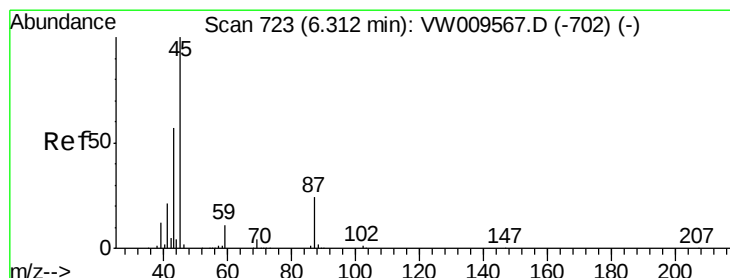
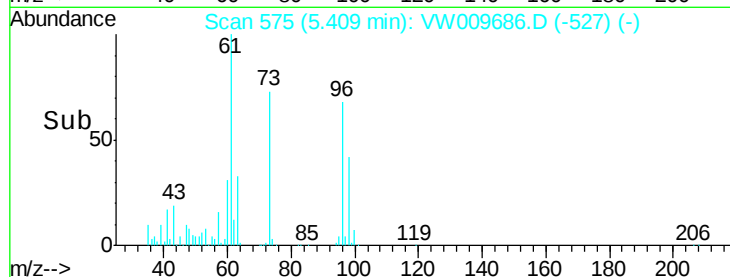
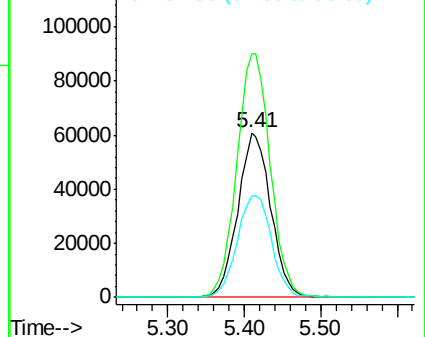


Abundance

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: 54.422 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Tgt Ion: 45 Resp: 617675

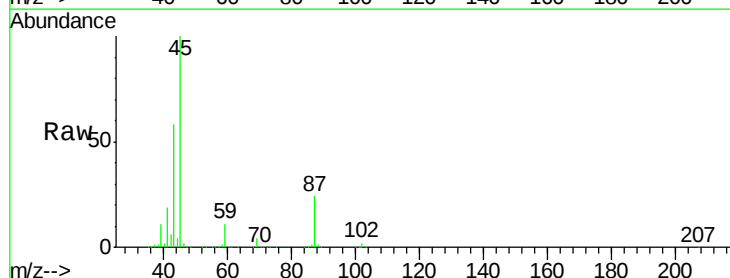
Ion Ratio Lower Upper

45 100

43 57.5 47.9 71.9

87 24.0 20.6 30.8

59 10.7 9.0 13.4



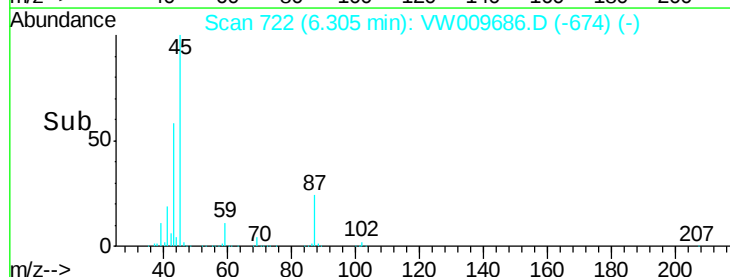
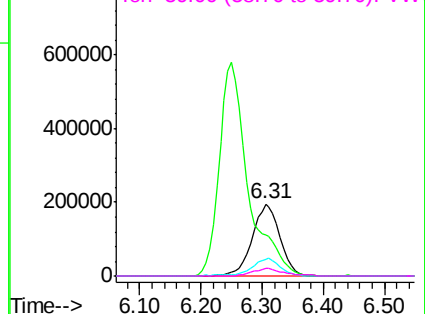
Abundance

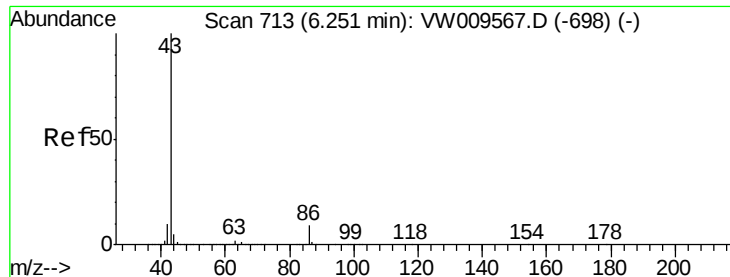
Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 269.385 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

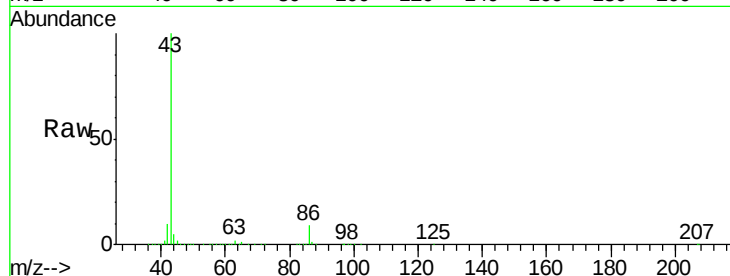
VSTDCCC050

Tgt Ion: 43 Resp: 1907363

Ion Ratio Lower Upper

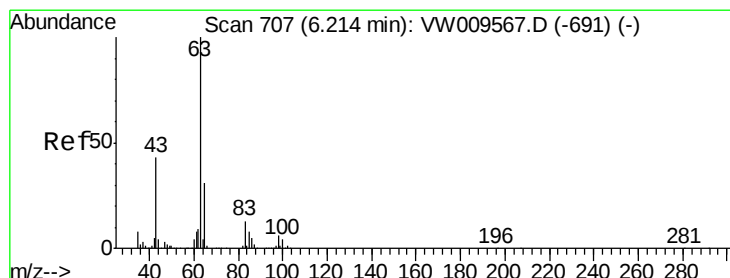
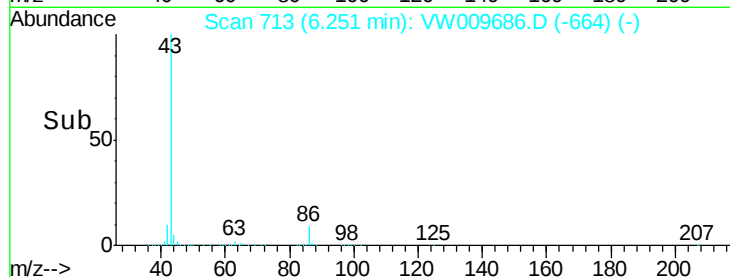
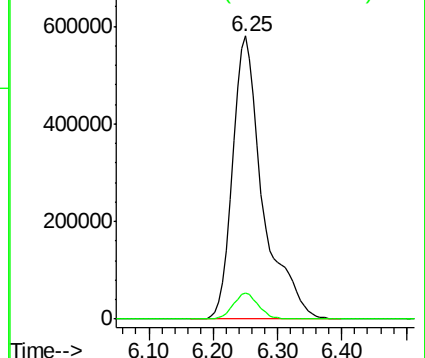
43 100

86 9.4 7.7 11.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 52.598 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

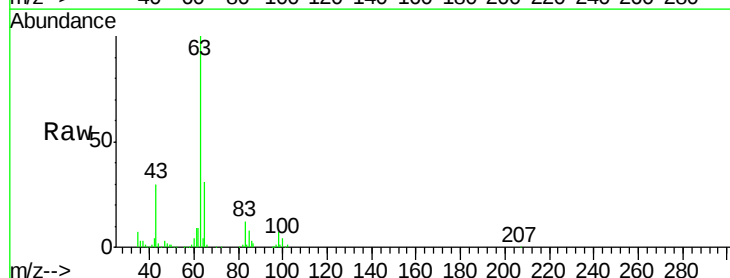
Tgt Ion: 63 Resp: 359312

Ion Ratio Lower Upper

63 100

98 7.4 3.7 11.1

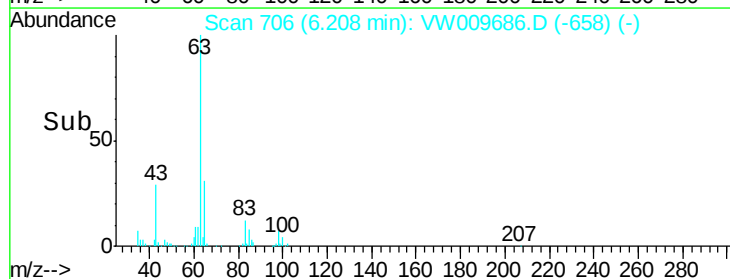
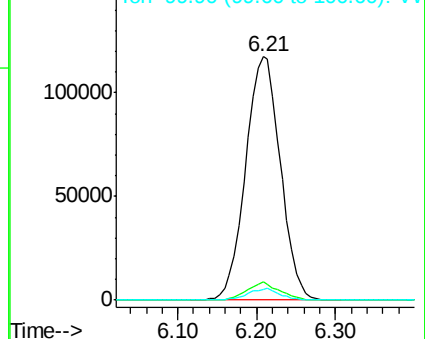
100 4.2 2.4 7.1

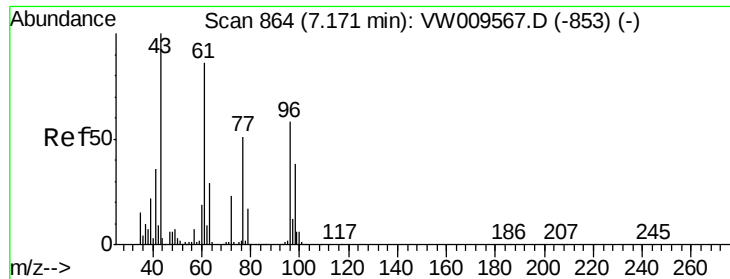


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 265.541 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

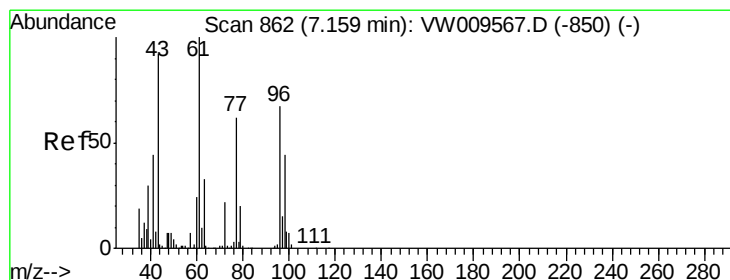
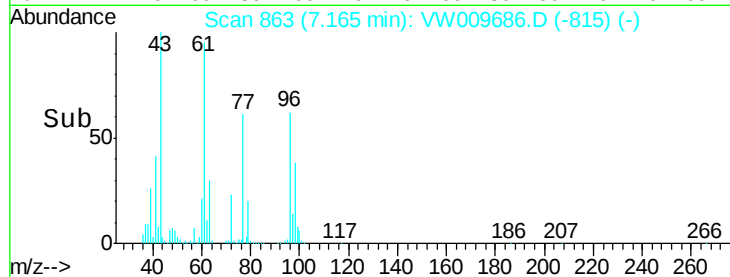
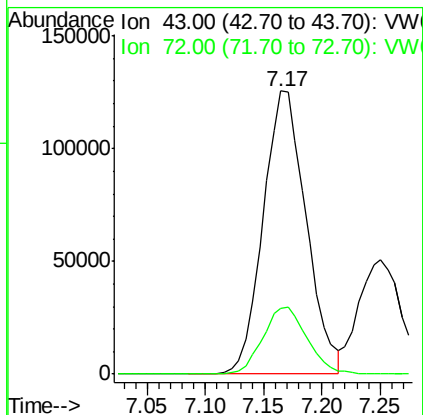
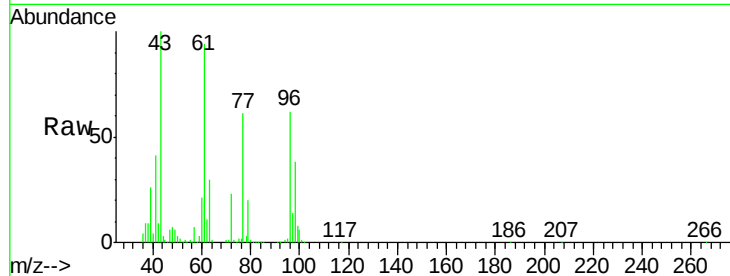
VSTDCCC050

Tgt Ion: 43 Resp: 321165

Ion Ratio Lower Upper

43 100

72 23.2 20.0 30.0



#26

2,2-Dichloropropane

Concen: 58.058 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.00 min

Lab File: VW009686.D

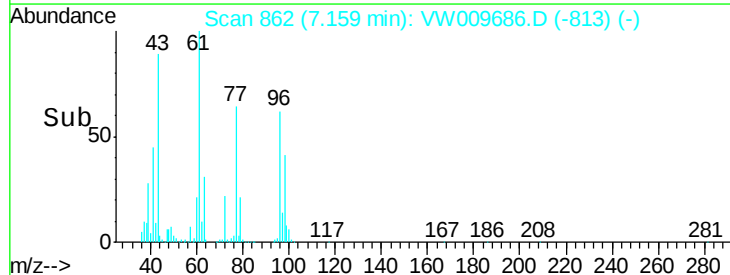
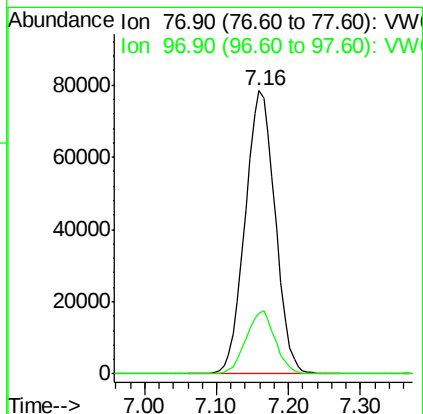
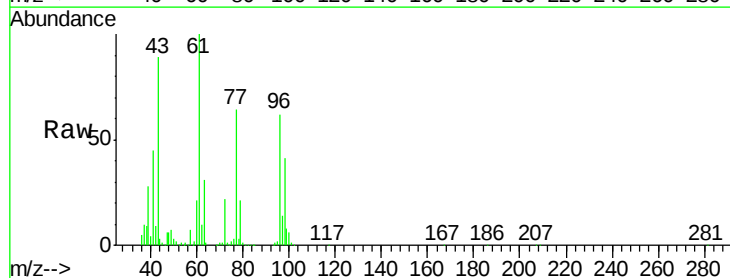
Acq: 04 Apr 2019 10:12

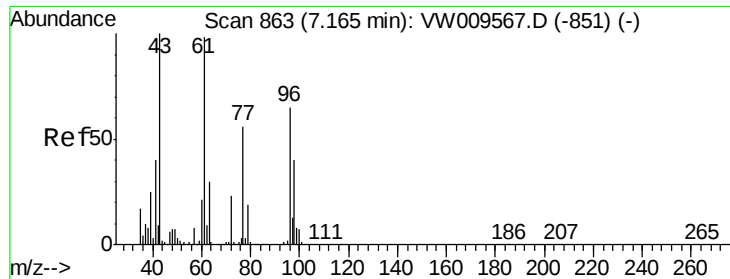
Tgt Ion: 77 Resp: 226755

Ion Ratio Lower Upper

77 100

97 21.5 11.6 34.7



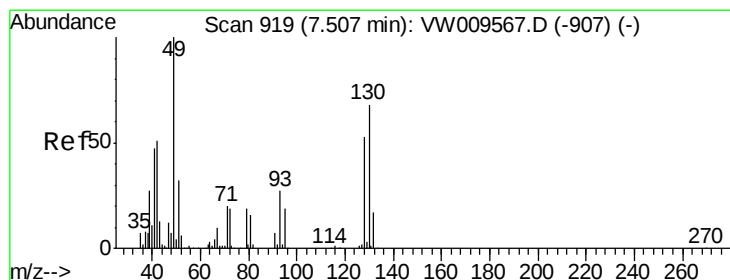
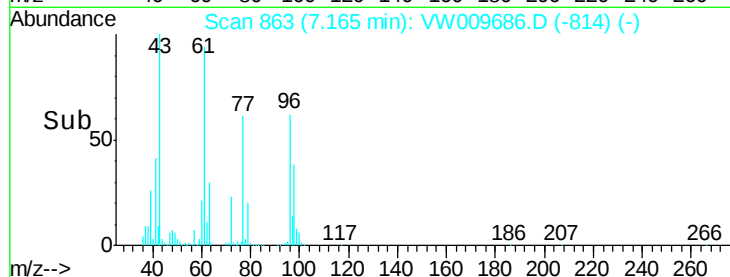
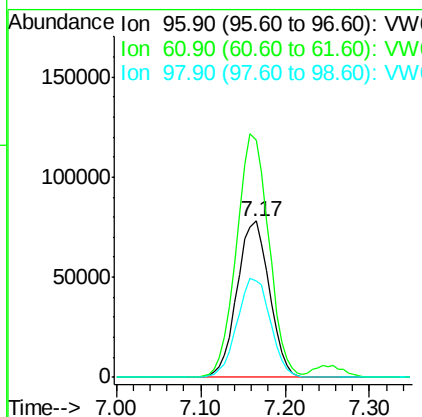
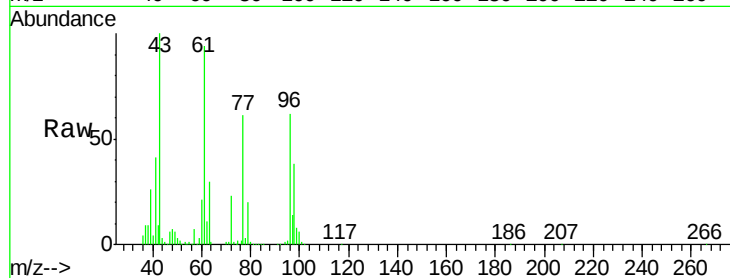


#27

cis-1,2-Dichloroethene  
 Concen: 53.292 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

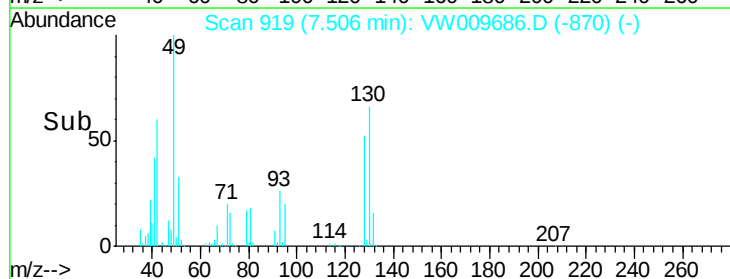
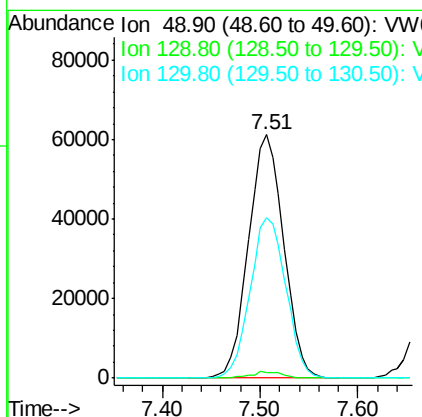
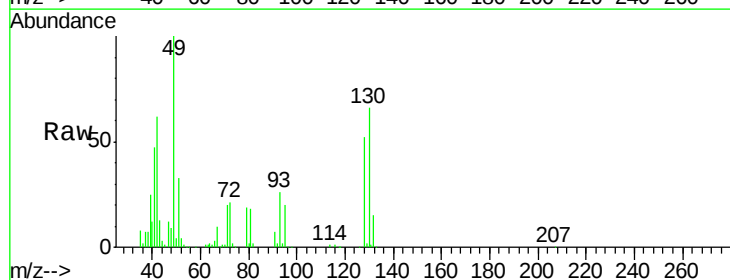
Tgt Ion: 96 Resp: 203040  
 Ion Ratio Lower Upper  
 96 100  
 61 155.7 0.0 289.8  
 98 64.8 0.0 130.8

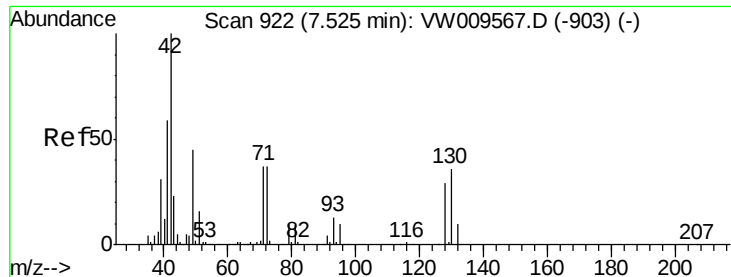


#28

Bromochloromethane  
 Concen: 51.653 ug/l  
 RT: 7.51 min Scan# 919  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Tgt Ion: 49 Resp: 152899  
 Ion Ratio Lower Upper  
 49 100  
 129 2.3 0.0 1.4#  
 130 67.1 58.6 88.0

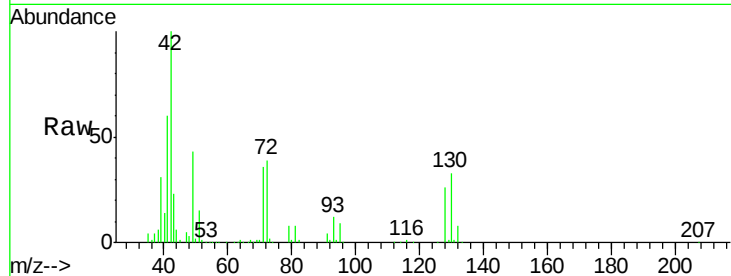




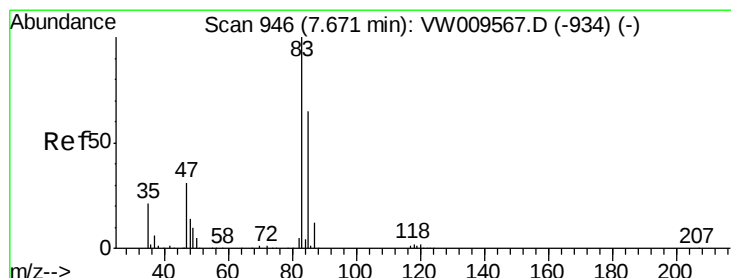
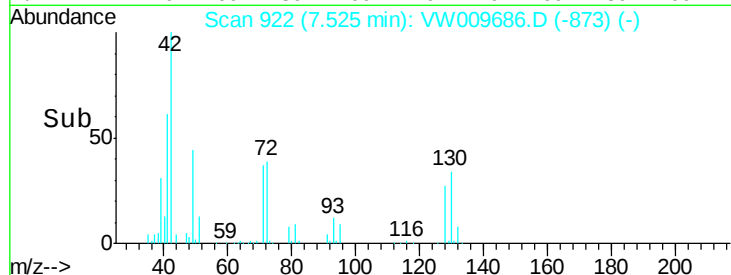
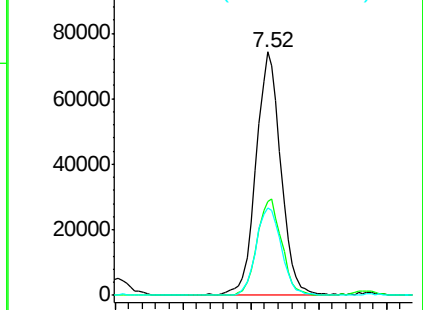
#29  
Tetrahydrofuran  
Concen: 253.025 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 42 Resp: 190024  
Ion Ratio Lower Upper  
42 100  
72 39.0 32.4 48.6  
71 36.6 30.1 45.1

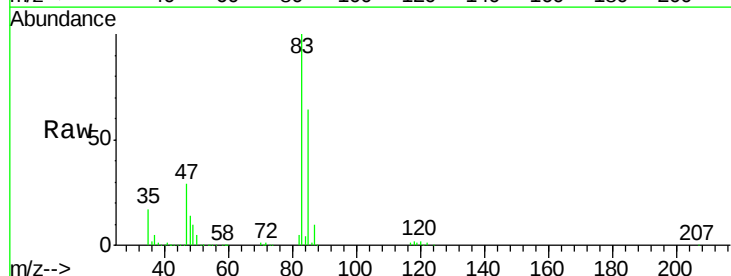


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

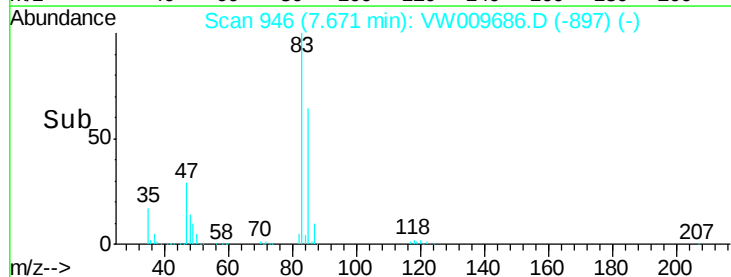
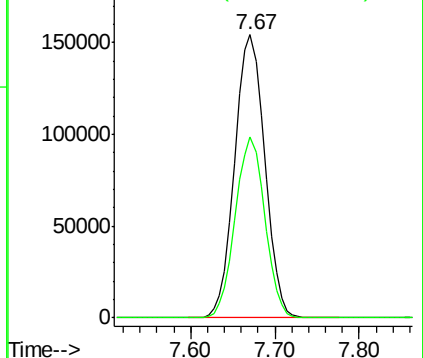


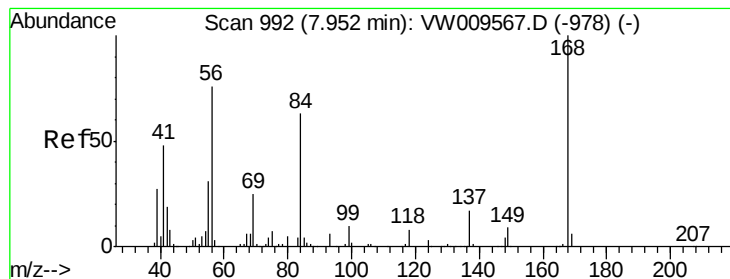
#30  
Chloroform  
Concen: 52.563 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion: 83 Resp: 371893  
Ion Ratio Lower Upper  
83 100  
85 63.8 51.0 76.6



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





#31

Cyclohexane

Concen: 51.122 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

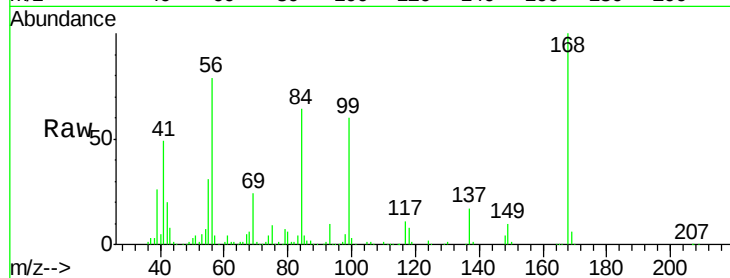
Tgt Ion: 56 Resp: 327406

Ion Ratio Lower Upper

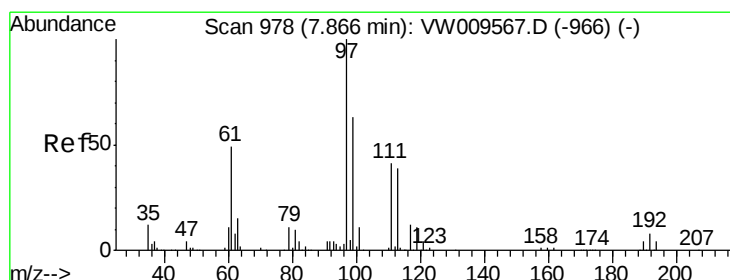
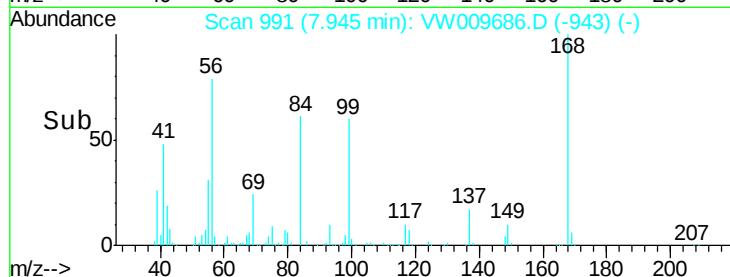
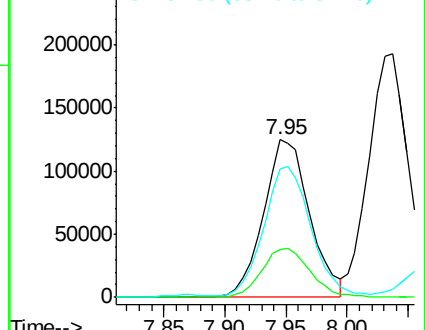
56 100

69 30.6 26.1 39.1

84 80.0 68.6 103.0



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: 55.052 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

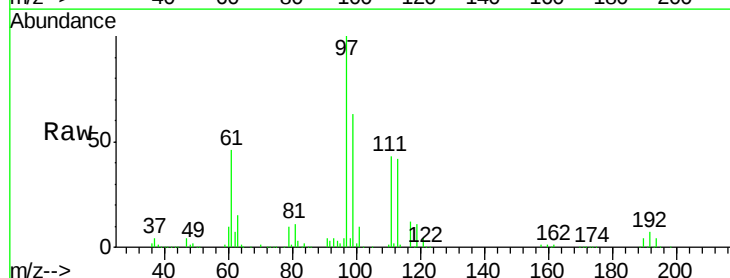
Tgt Ion: 97 Resp: 315327

Ion Ratio Lower Upper

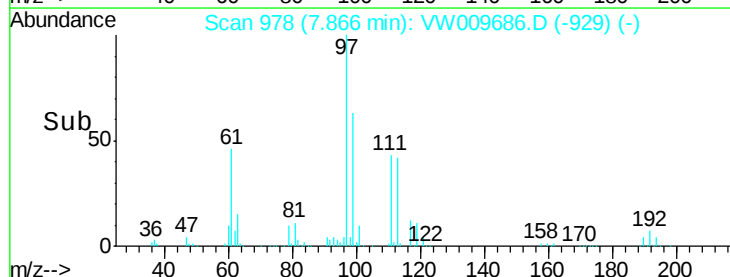
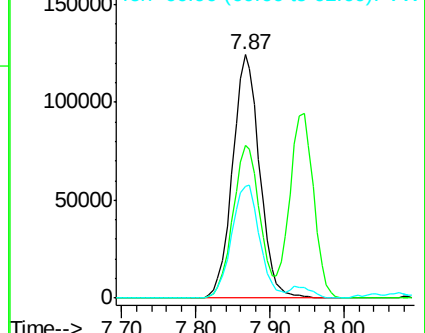
97 100

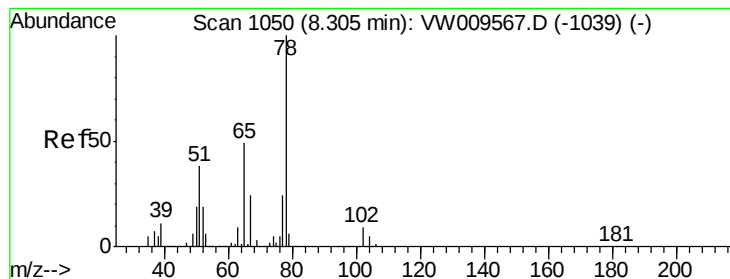
99 63.2 51.9 77.9

61 48.5 36.8 55.2



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: 52.363 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

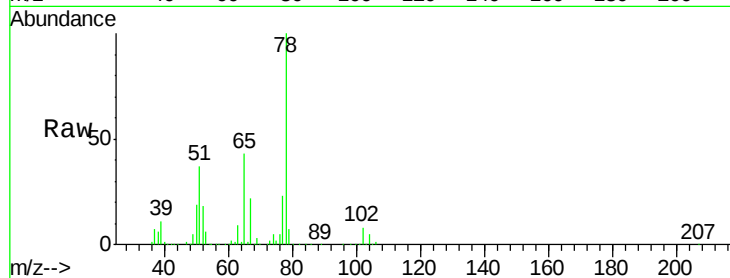
VSTDCCC050

Tgt Ion: 65 Resp: 203837

Ion Ratio Lower Upper

65 100

67 49.4 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

100000

80000

60000

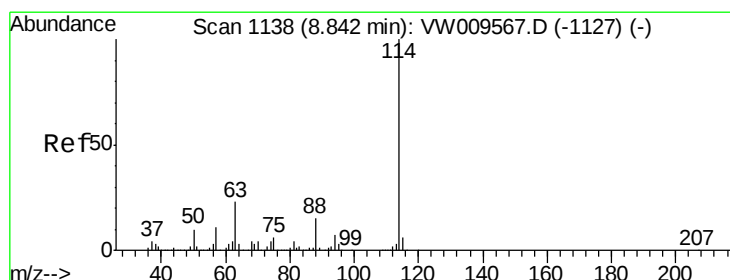
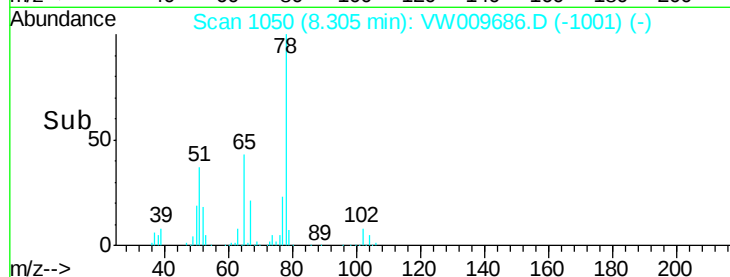
40000

20000

0

8.20 8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

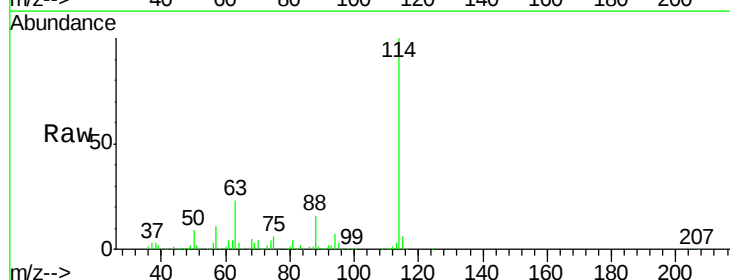
Tgt Ion: 114 Resp: 520698

Ion Ratio Lower Upper

114 100

63 22.6 0.0 42.2

88 16.4 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.84

300000

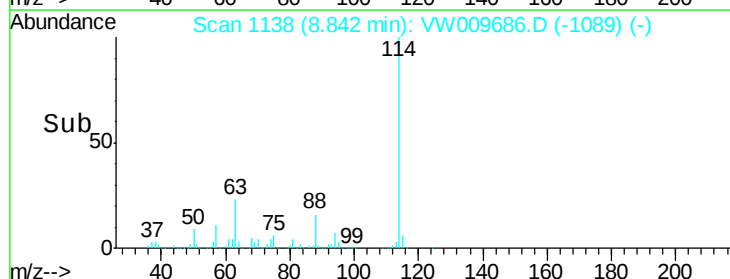
200000

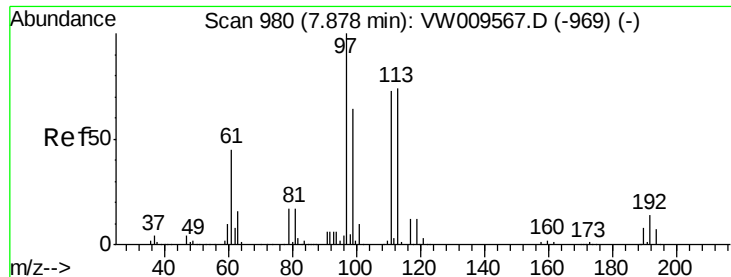
100000

0

8.75 8.80 8.85 8.90 8.95

Time-->





#35

Dibromofluoromethane

Concen: 53.709 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

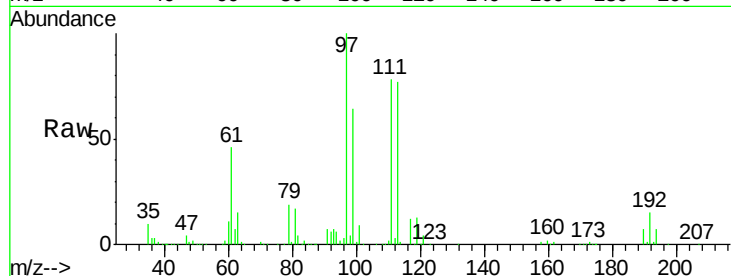
Tgt Ion:113 Resp: 175651

Ion Ratio Lower Upper

113 100

111 101.6 82.6 124.0

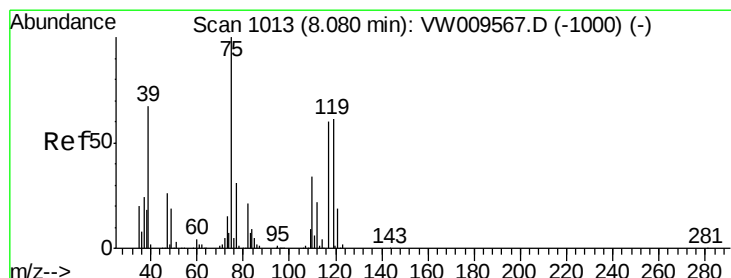
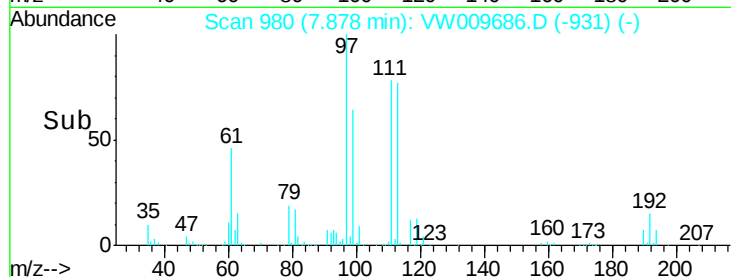
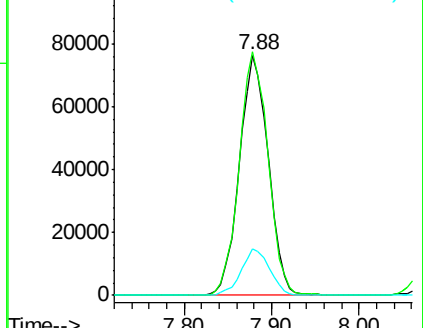
192 18.9 16.4 24.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 53.883 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

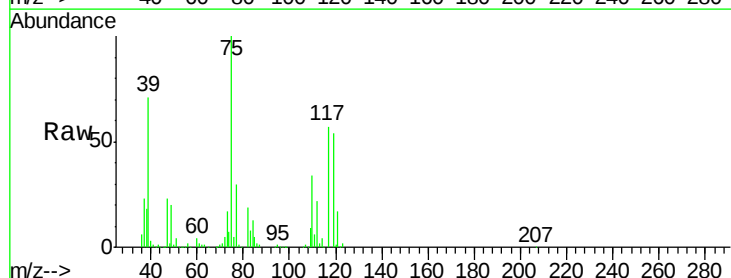
Tgt Ion: 75 Resp: 290199

Ion Ratio Lower Upper

75 100

110 32.9 16.8 50.4

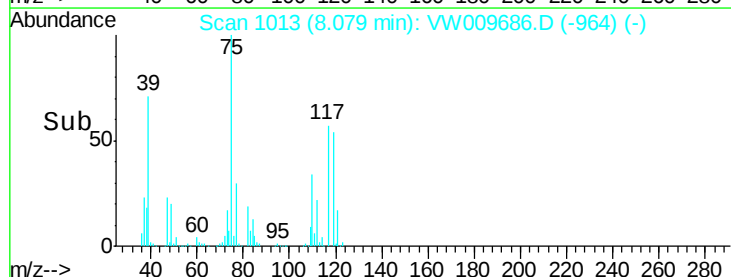
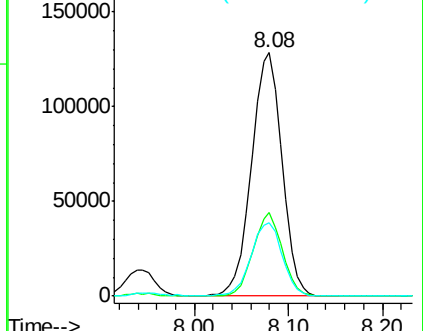
77 31.1 24.6 36.8

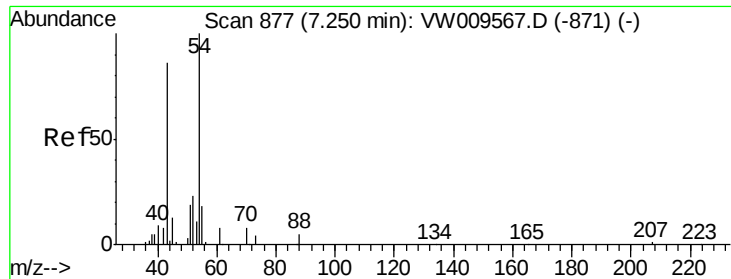


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

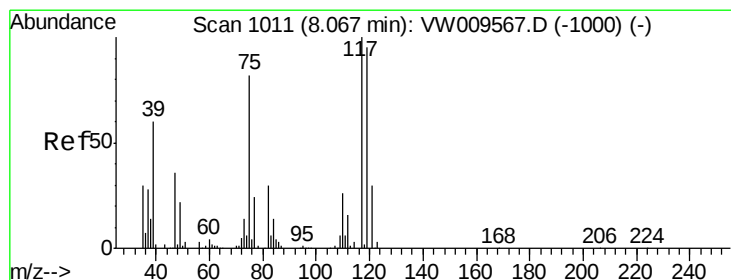
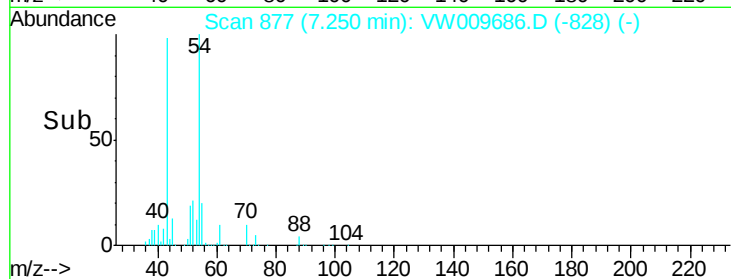
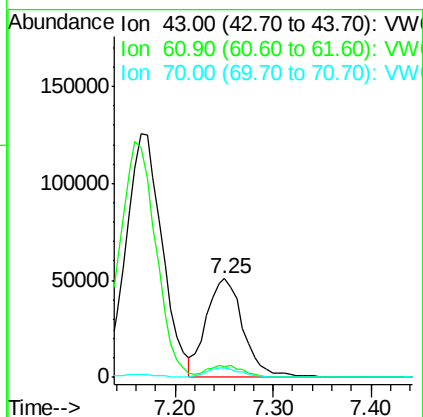
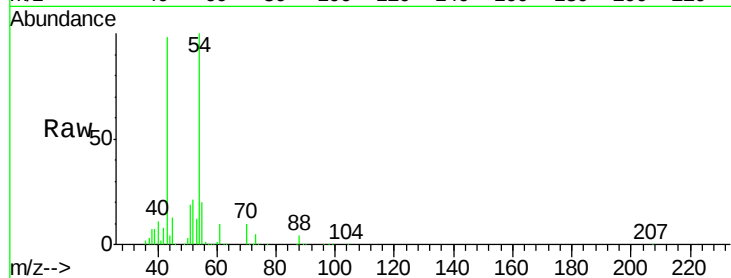




#37  
Ethyl Acetate  
Concen: 51.594 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

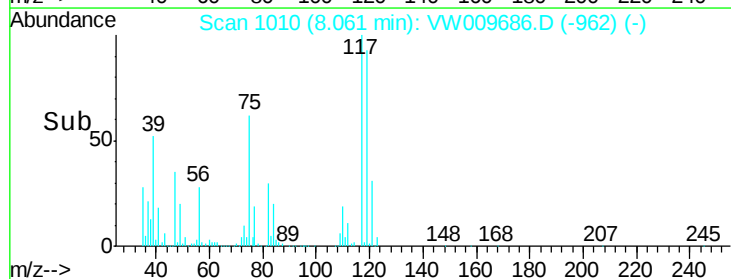
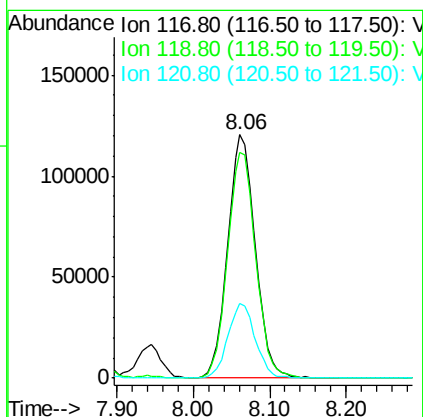
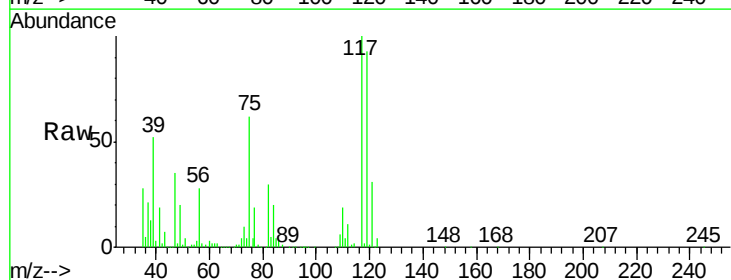
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

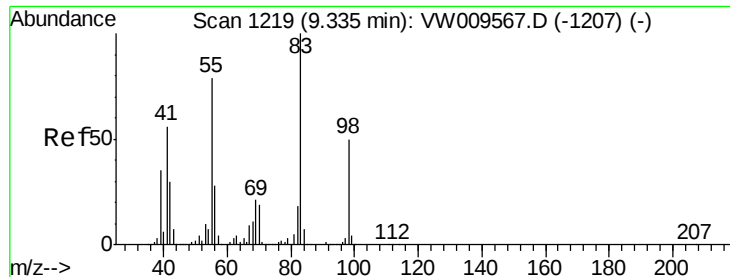
Tgt Ion: 43 Resp: 132014  
Ion Ratio Lower Upper  
43 100  
61 11.6 10.0 15.0  
70 9.1 7.3 10.9



#38  
Carbon Tetrachloride  
Concen: 54.427 ug/l  
RT: 8.06 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion: 117 Resp: 300360  
Ion Ratio Lower Upper  
117 100  
119 92.8 75.4 113.0  
121 30.6 24.9 37.3

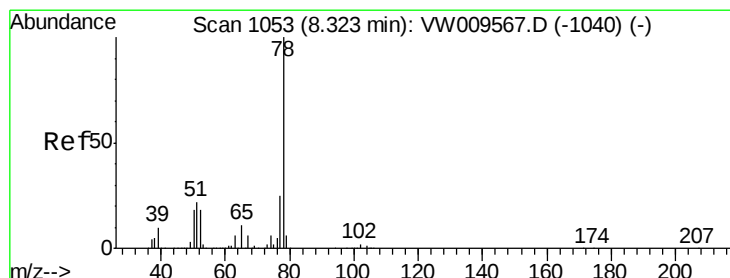
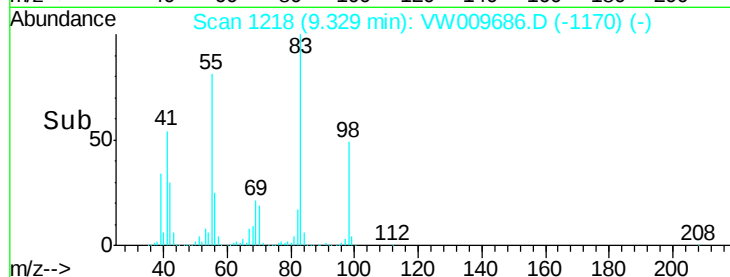
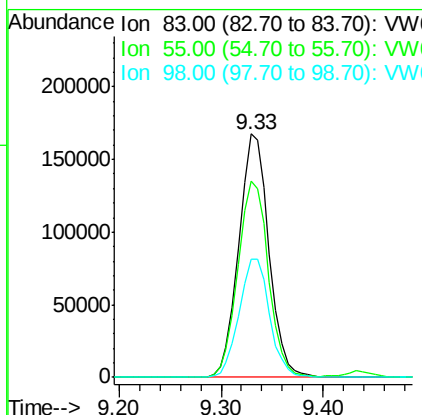
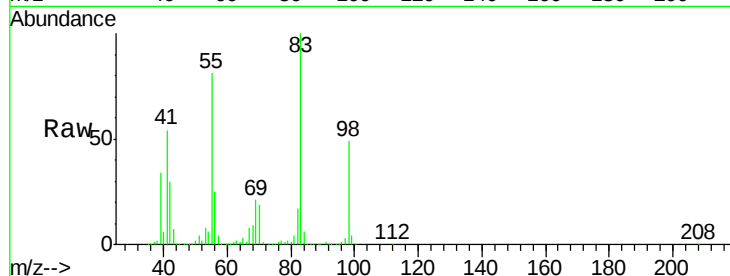




#39  
Methylcyclohexane  
Concen: 55.859 ug/l  
RT: 9.33 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

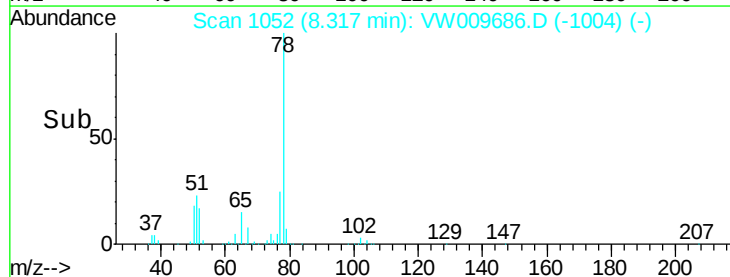
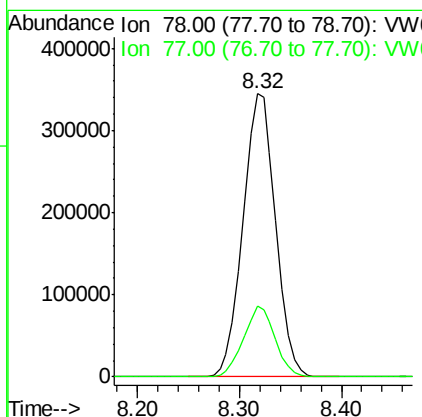
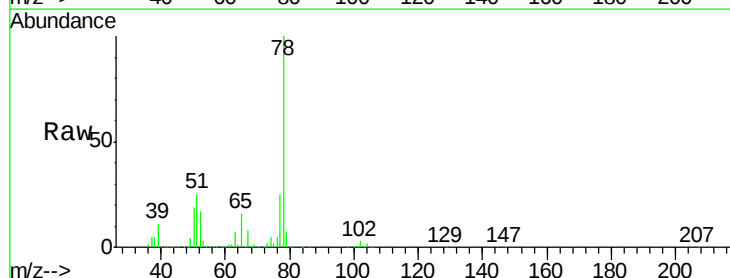
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

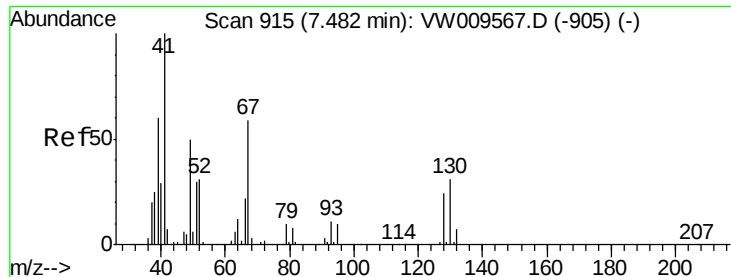
Tgt Ion: 83 Resp: 343648  
Ion Ratio Lower Upper  
83 100  
55 80.6 61.1 91.7  
98 48.8 39.0 58.4



#40  
Benzene  
Concen: 52.331 ug/l  
RT: 8.32 min Scan# 1052  
Delta R.T. -0.01 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion: 78 Resp: 763404  
Ion Ratio Lower Upper  
78 100  
77 24.9 19.8 29.6





#41

Methacrylonitrile

Concen: 44.056 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 72568

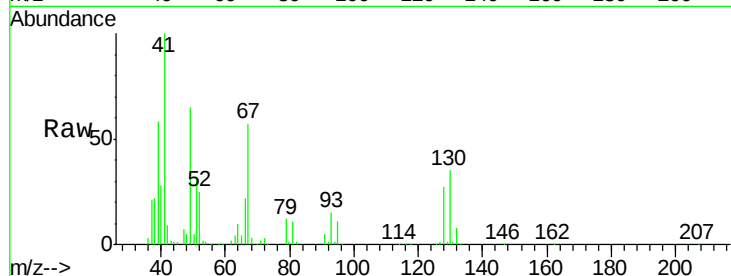
Ion Ratio Lower Upper

41 100

39 65.7 52.5 78.7

67 67.5 56.6 84.8

52 32.8 27.2 40.8

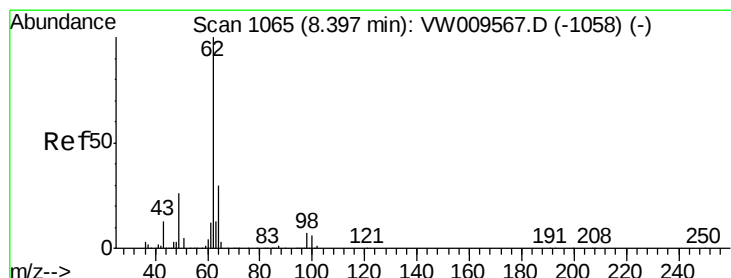
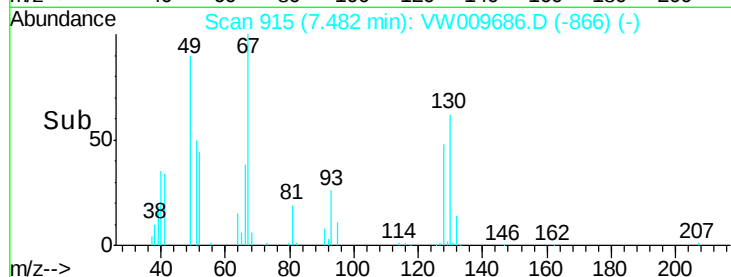
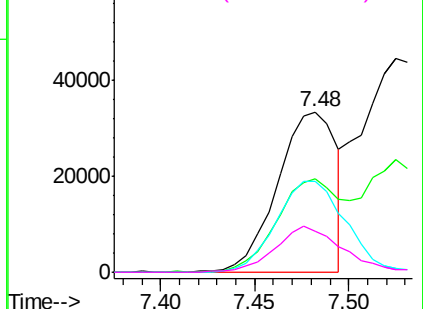


Abundance Ion 41.00 (40.70 to 41.70): VW

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: 52.401 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW009686.D

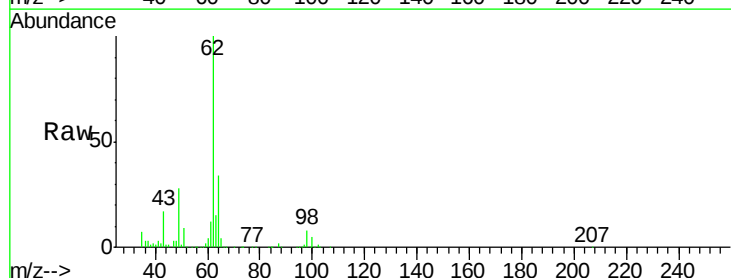
Acq: 04 Apr 2019 10:12

Tgt Ion: 62 Resp: 260608

Ion Ratio Lower Upper

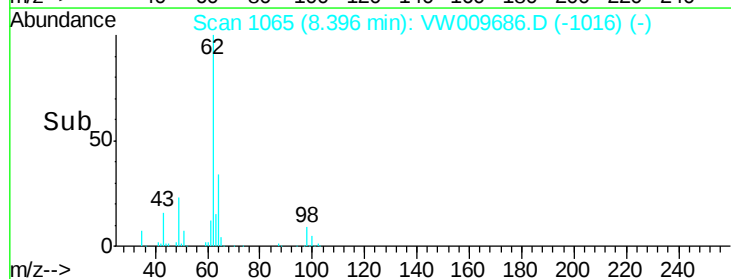
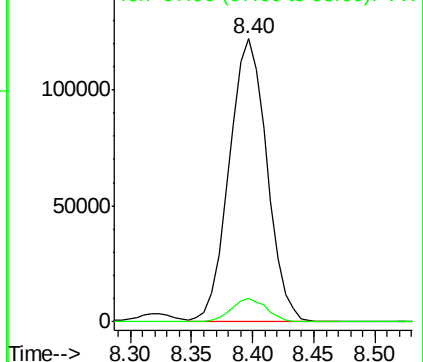
62 100

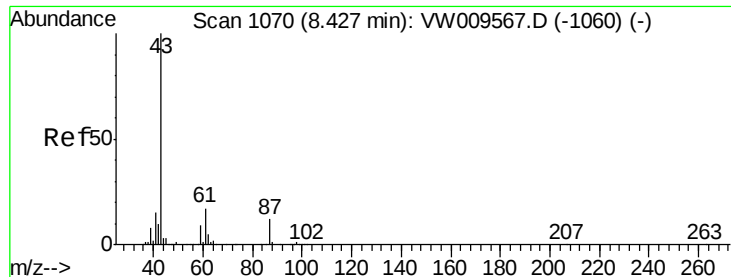
98 8.0 0.0 17.4



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 52.157 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

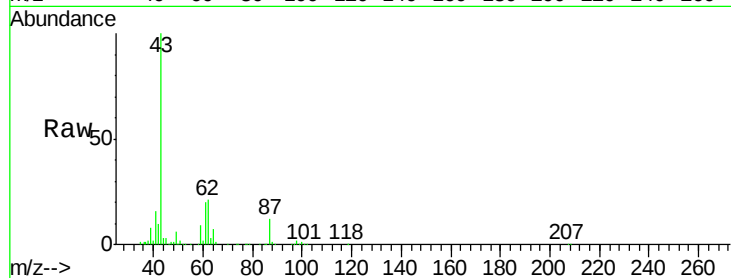
Tgt Ion: 43 Resp: 261544

Ion Ratio Lower Upper

43 100

61 27.3 22.2 33.2

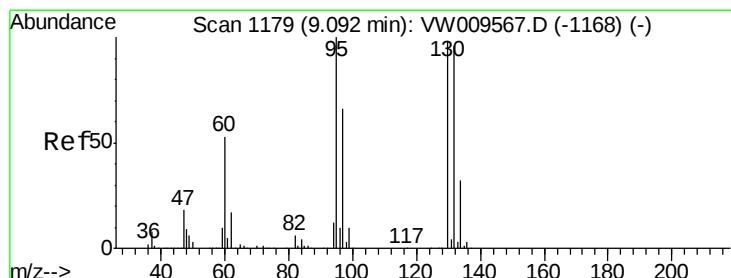
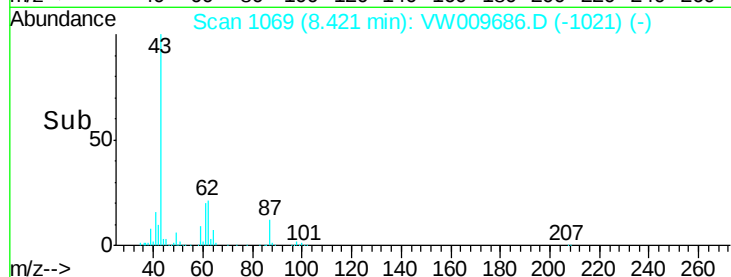
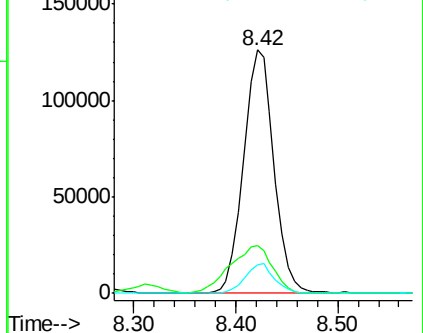
87 11.7 9.6 14.4



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: 53.090 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW009686.D

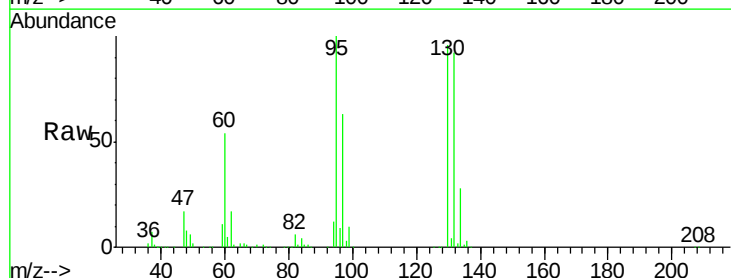
Acq: 04 Apr 2019 10:12

Tgt Ion: 130 Resp: 200505

Ion Ratio Lower Upper

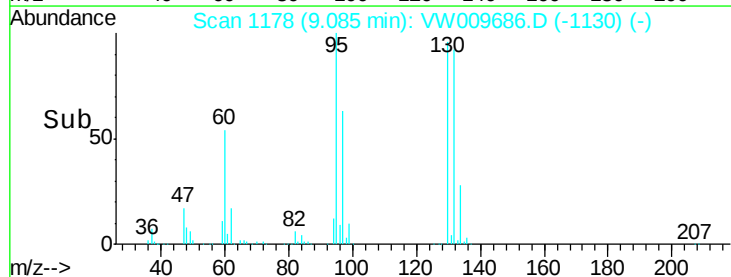
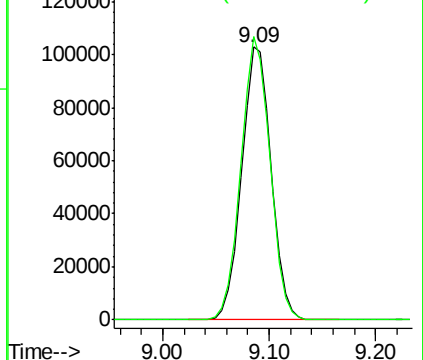
130 100

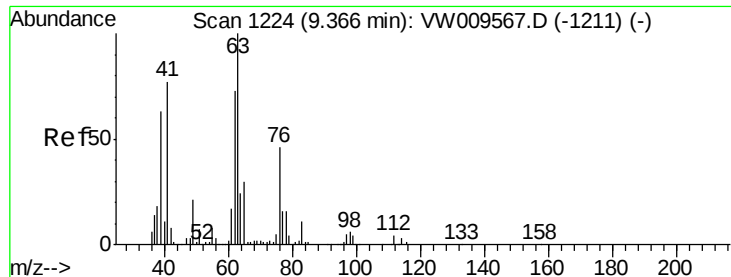
95 103.8 0.0 192.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 51.516 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

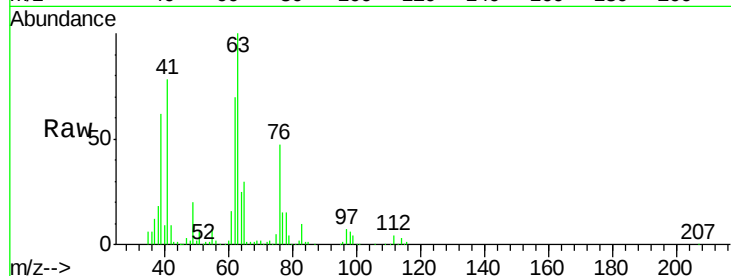
VSTDCCC050

Tgt Ion: 63 Resp: 192359

Ion Ratio Lower Upper

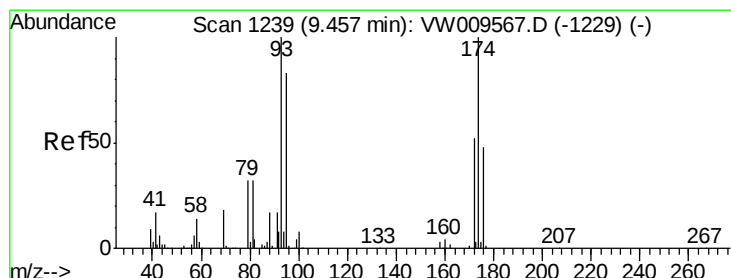
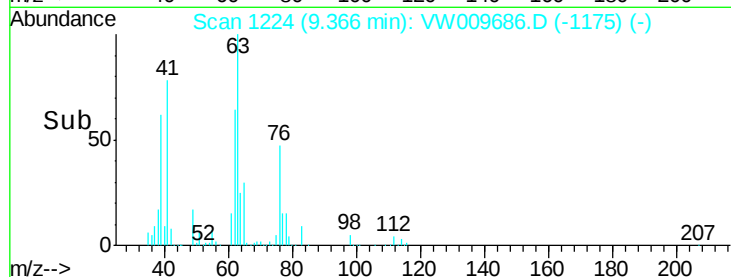
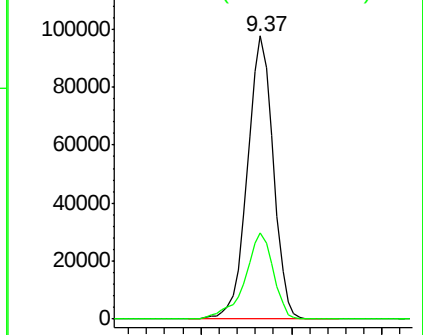
63 100

65 30.4 25.8 38.8



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 49.620 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

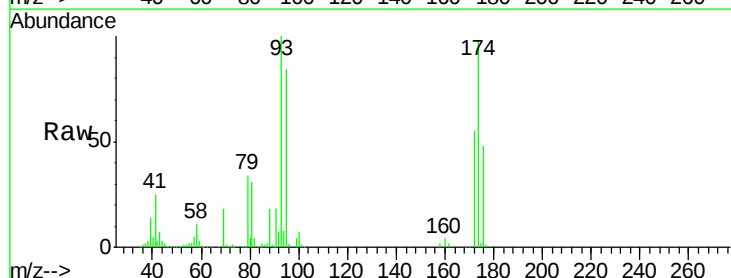
Tgt Ion: 93 Resp: 100371

Ion Ratio Lower Upper

93 100

95 84.3 66.9 100.3

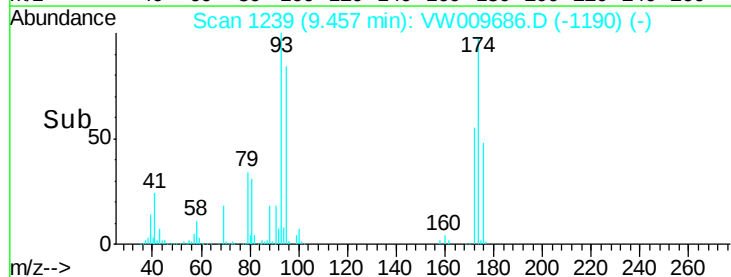
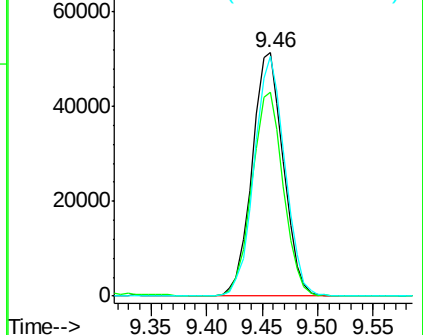
174 96.8 80.8 121.2

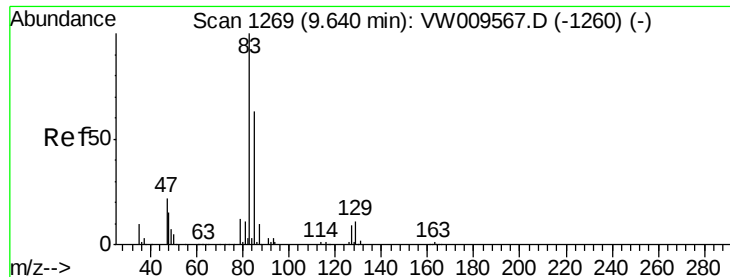


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 52.325 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

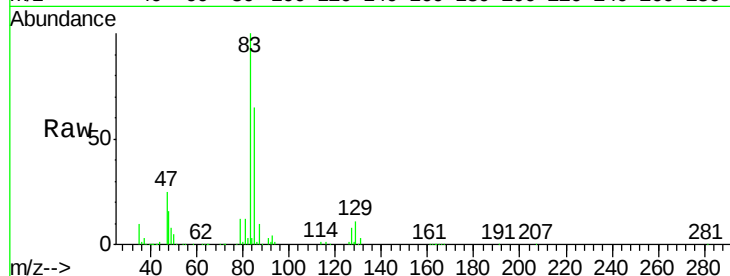
Tgt Ion: 83 Resp: 269987

Ion Ratio Lower Upper

83 100

85 65.3 52.6 79.0

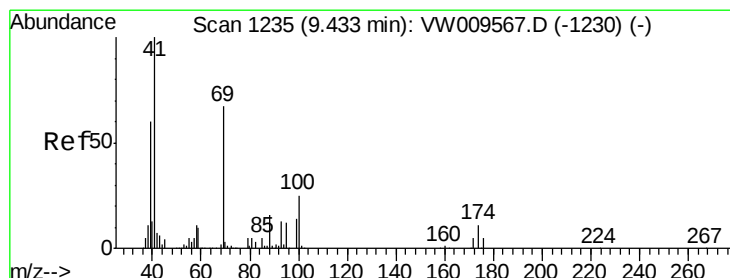
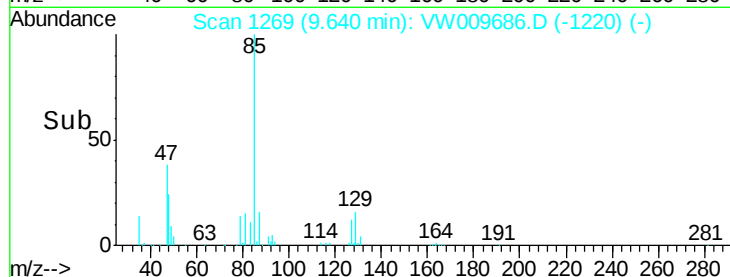
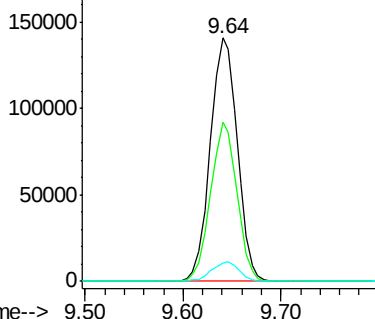
127 7.8 6.5 9.7



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 53.366 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

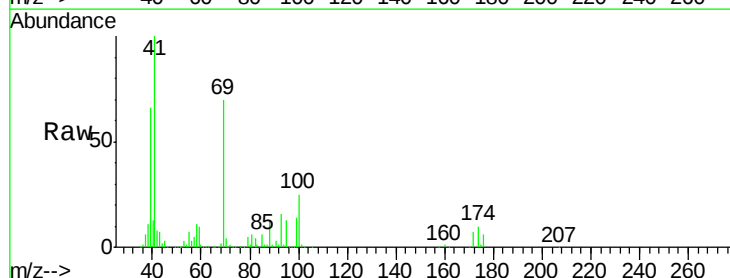
Tgt Ion: 41 Resp: 125445

Ion Ratio Lower Upper

41 100

69 76.6 63.0 94.6

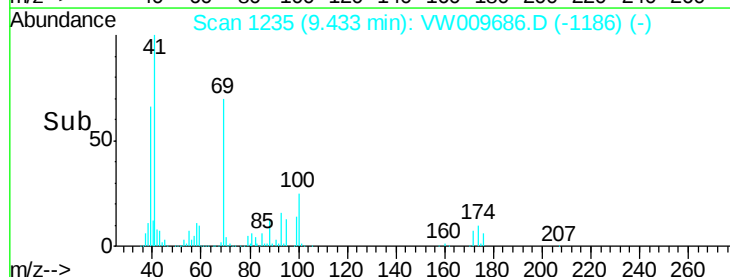
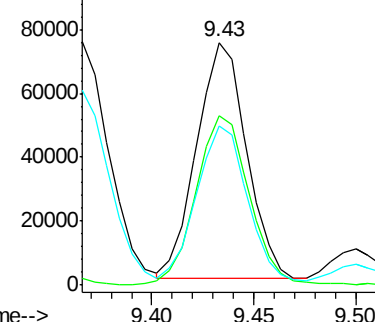
39 65.8 57.2 85.8

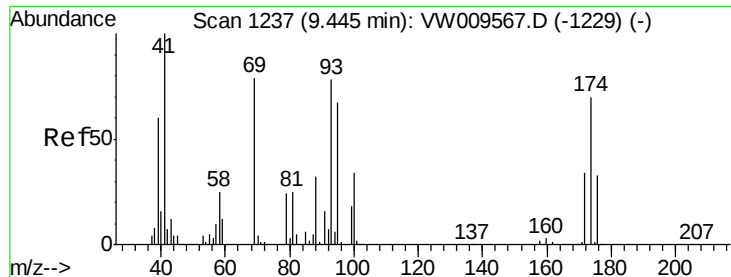


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

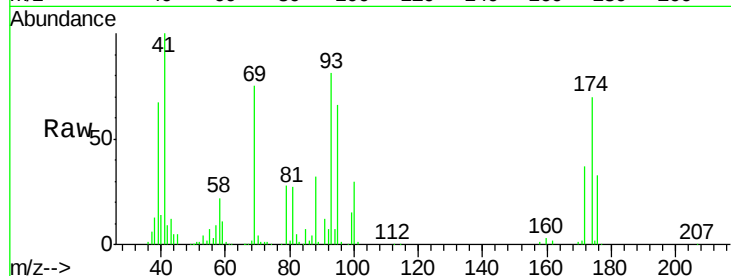




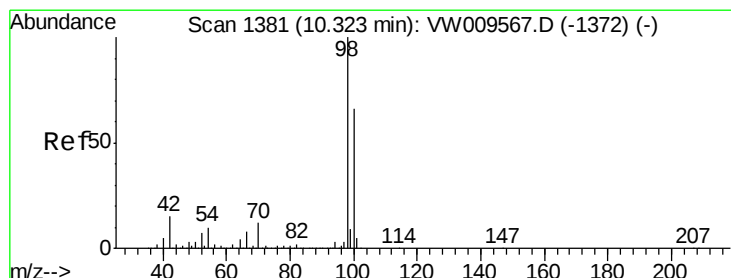
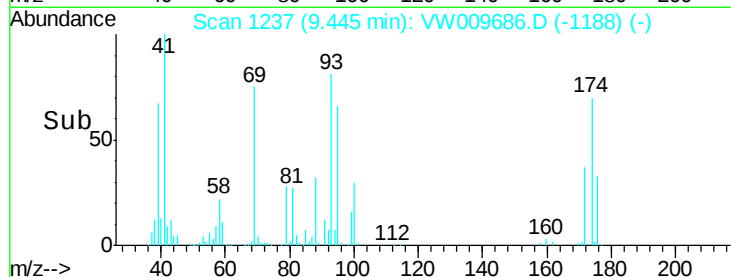
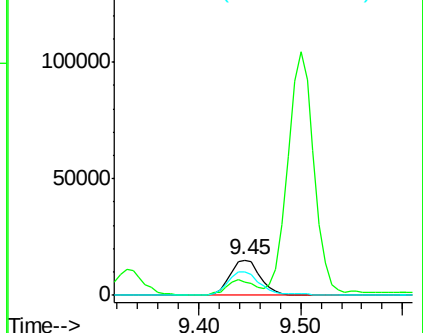
#49  
1,4-Dioxane  
Concen: 1038.703 ug/l  
RT: 9.45 min Scan# 1237  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 88 Resp: 31289  
Ion Ratio Lower Upper  
88 100  
43 39.7 29.7 44.5  
58 72.7 58.1 87.1

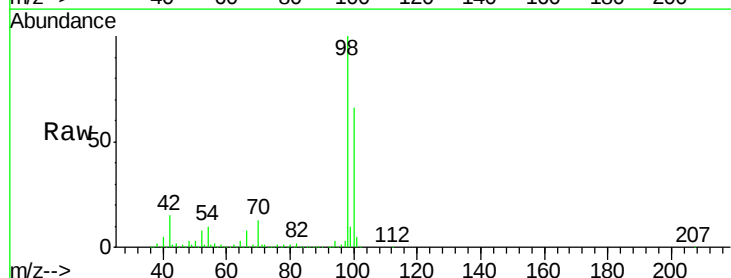


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

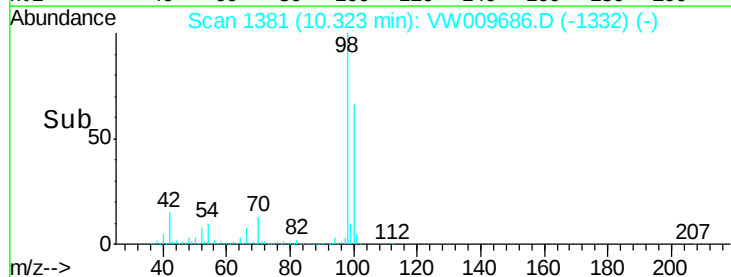
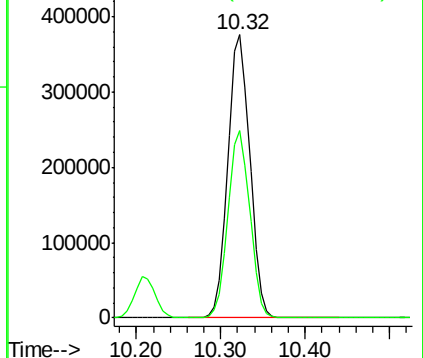


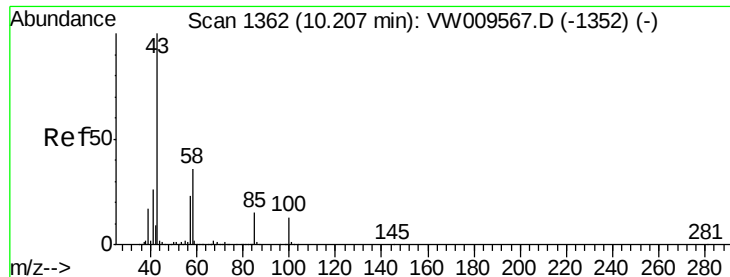
#50  
Toluene-d8  
Concen: 54.942 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion: 98 Resp: 664124  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.6 79.0



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: 253.034 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

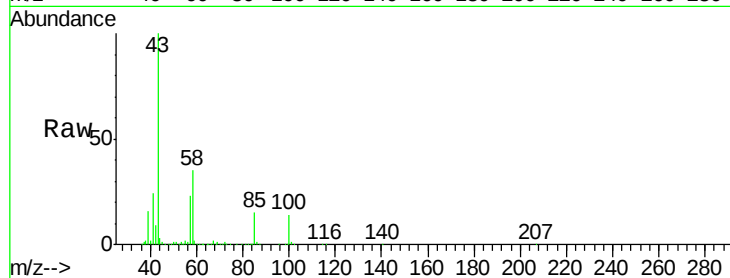
VSTDCCC050

Tgt Ion: 43 Resp: 678885

Ion Ratio Lower Upper

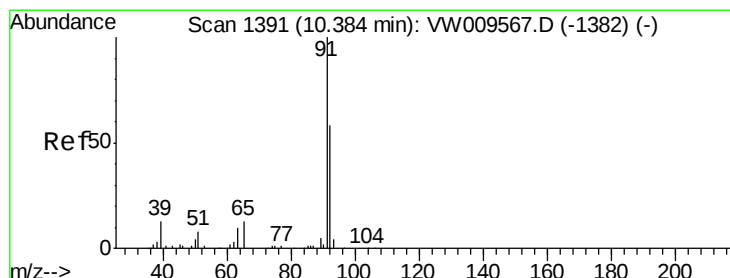
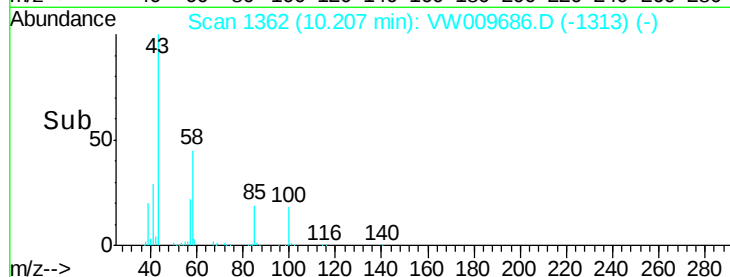
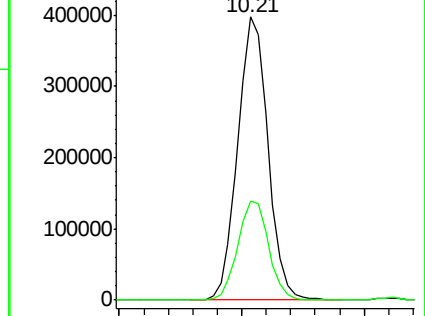
43 100

58 35.7 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 53.577 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW009686.D

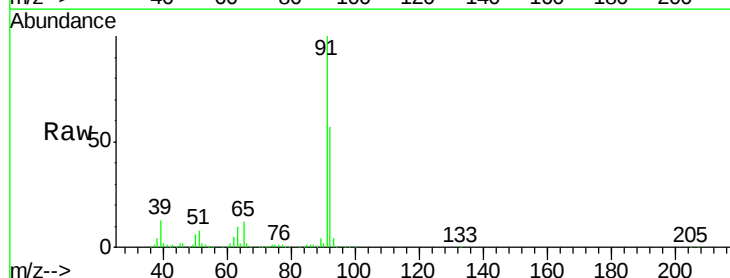
Acq: 04 Apr 2019 10:12

Tgt Ion: 92 Resp: 489460

Ion Ratio Lower Upper

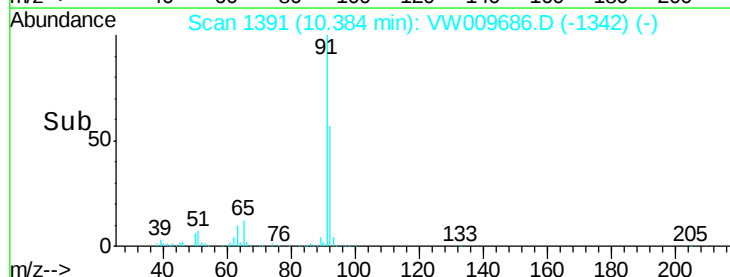
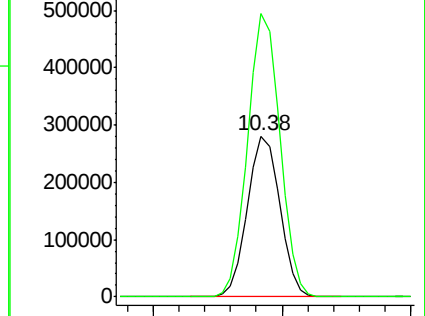
92 100

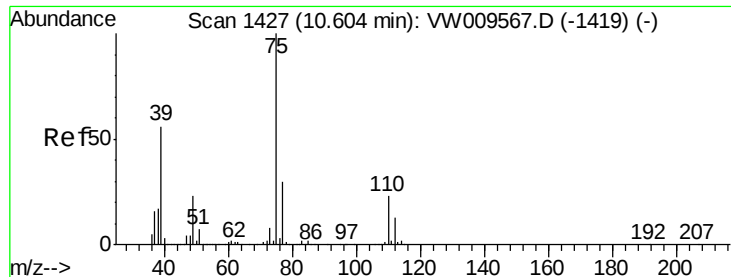
91 175.0 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 54.227 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

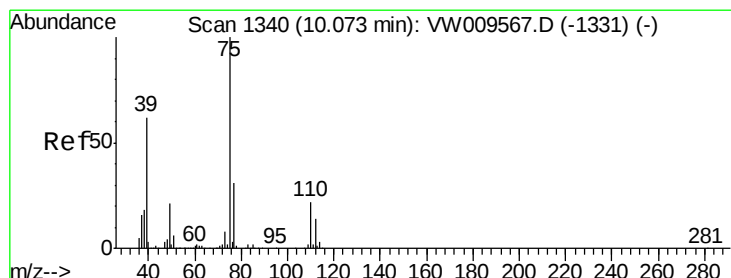
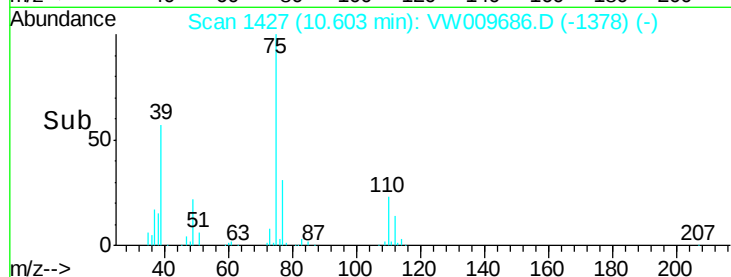
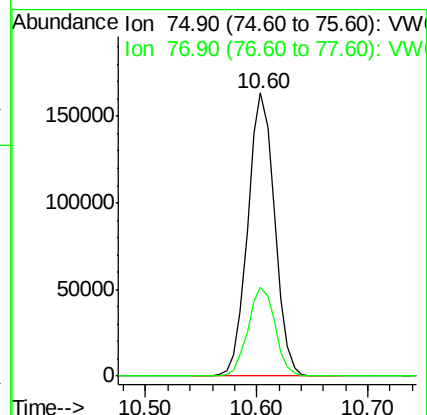
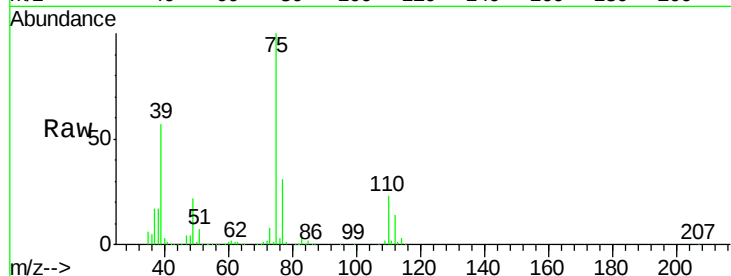
VSTDCCC050

Tgt Ion: 75 Resp: 273969

Ion Ratio Lower Upper

75 100

77 31.5 24.8 37.2



#54

cis-1,3-Dichloropropene

Concen: 54.536 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

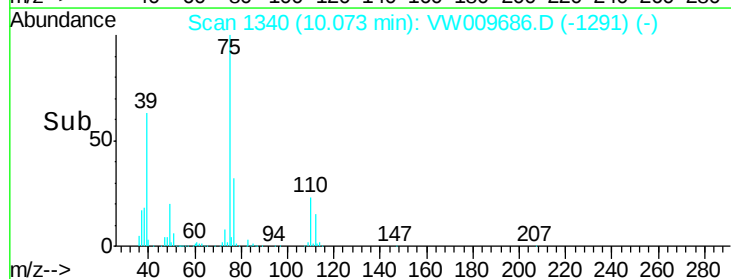
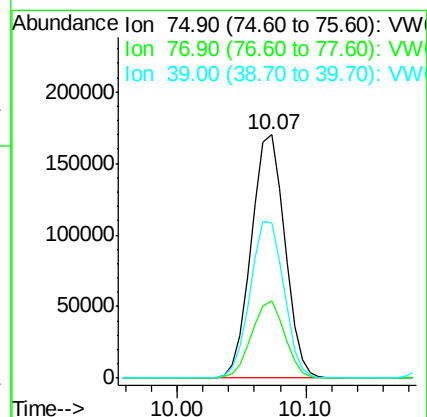
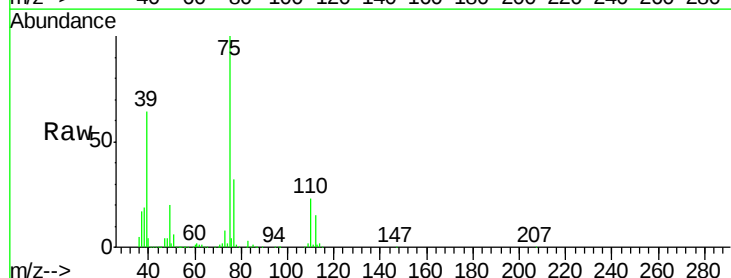
Tgt Ion: 75 Resp: 305497

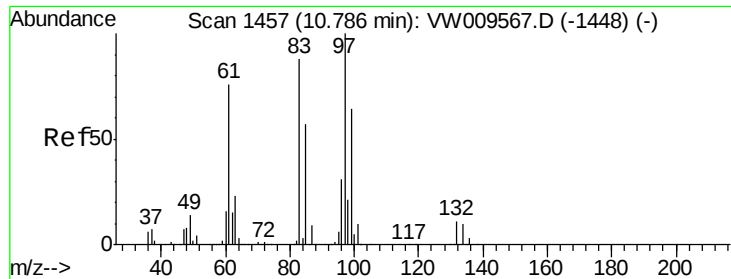
Ion Ratio Lower Upper

75 100

77 31.7 25.9 38.9

39 63.4 46.8 70.2

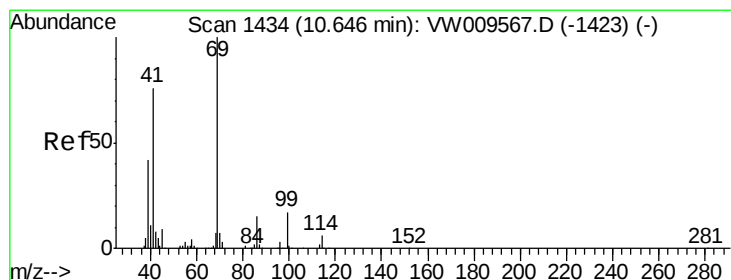
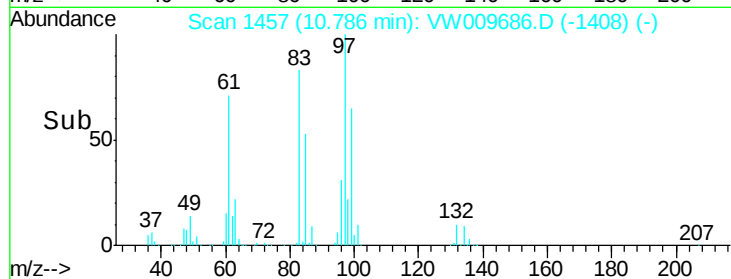
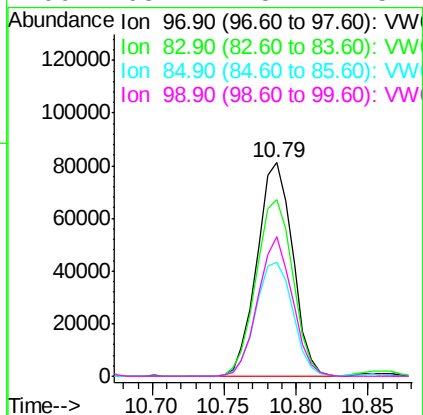
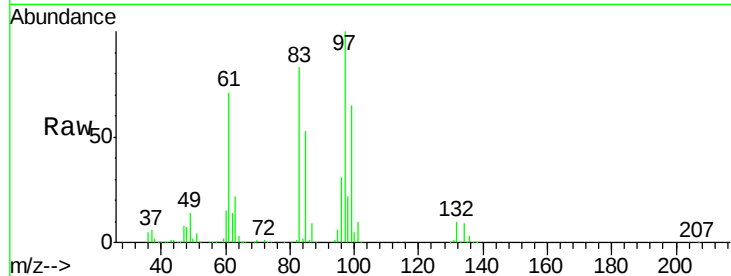




#55  
 1,1,2-Trichloroethane  
 Concen: 50.990 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

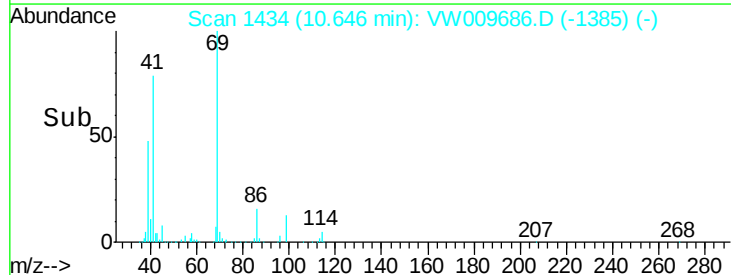
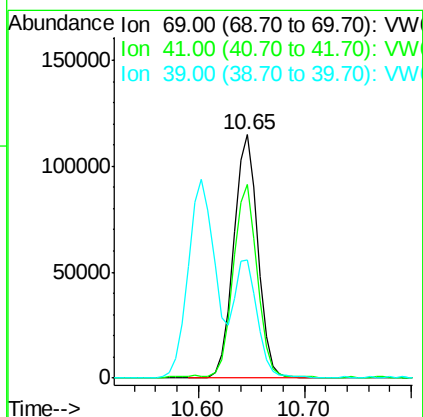
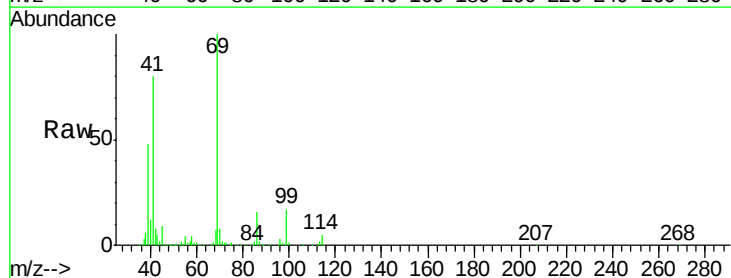
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

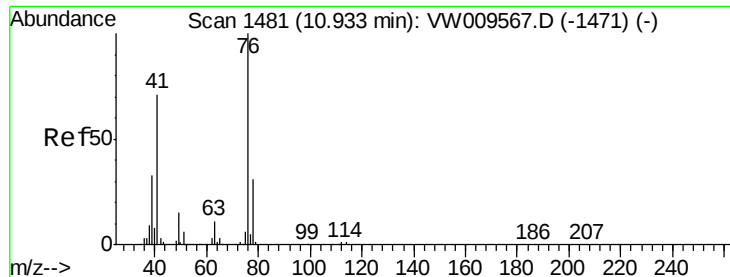
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 139416 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 82.7  | 66.3  | 99.5   |
| 85       | 53.4  | 41.4  | 62.2   |
| 99       | 65.1  | 48.7  | 73.1   |



#56  
 Ethyl methacrylate  
 Concen: 48.242 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 182133 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 79.5  | 59.3  | 88.9   |
| 39       | 44.2  | 36.2  | 54.2   |

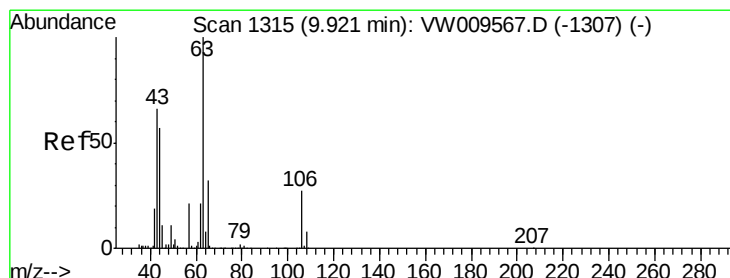
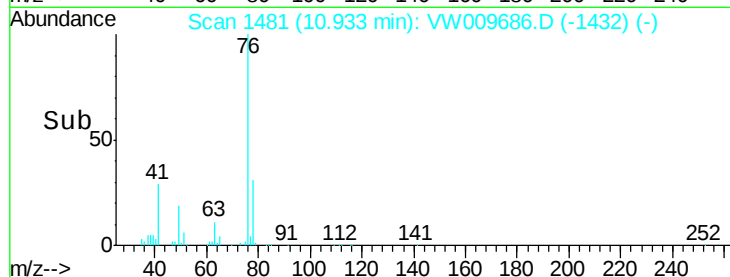
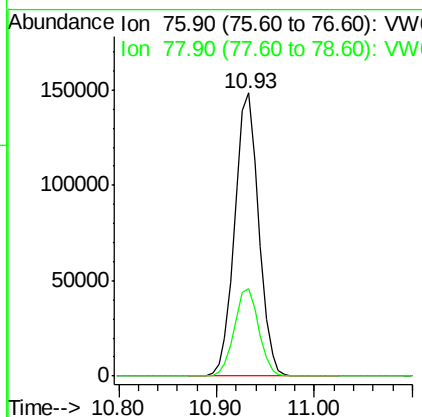
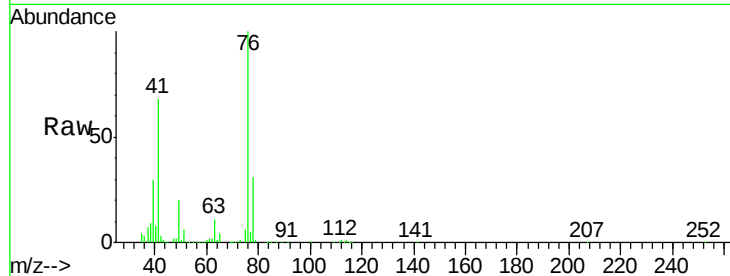




#57  
 1,3-Dichloropropane  
 Concen: 52.085 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

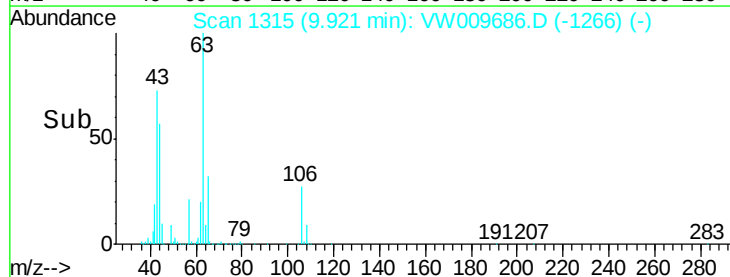
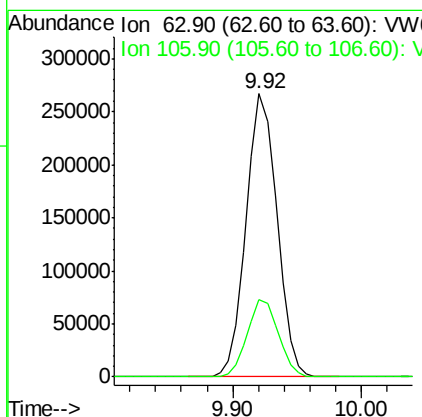
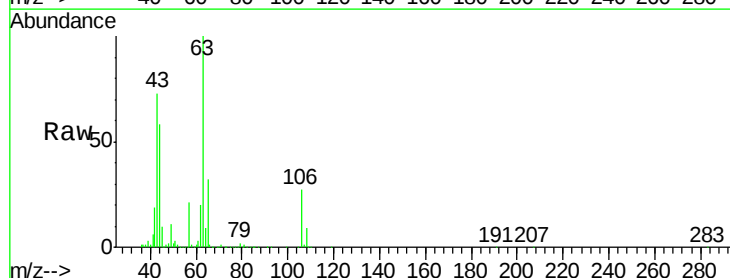
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

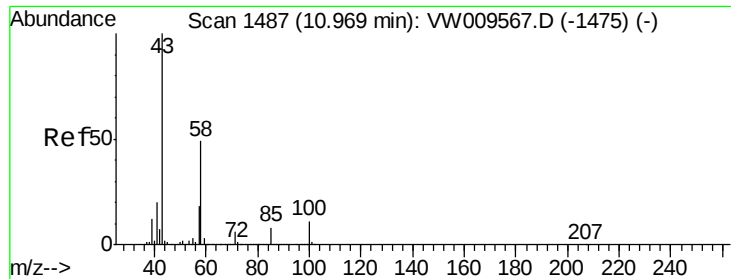
Tgt Ion: 76 Resp: 252431  
 Ion Ratio Lower Upper  
 76 100  
 78 31.5 25.8 38.6



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 243.414 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. 0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Tgt Ion: 63 Resp: 443267  
 Ion Ratio Lower Upper  
 63 100  
 106 27.4 22.9 34.3

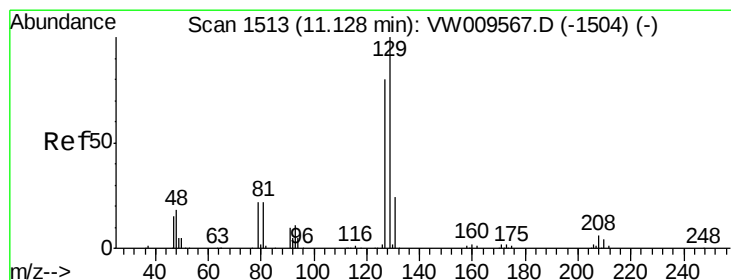
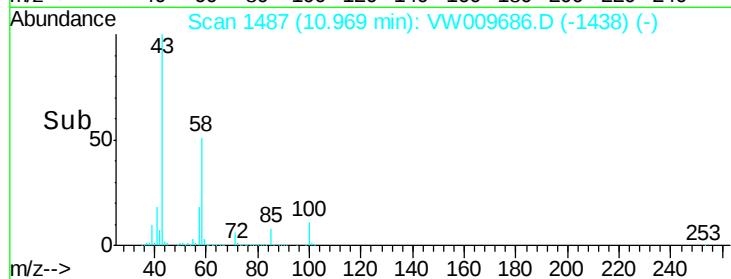
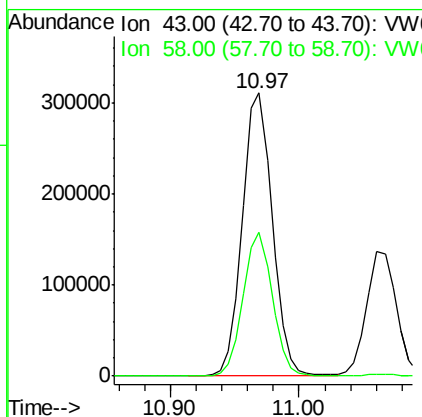
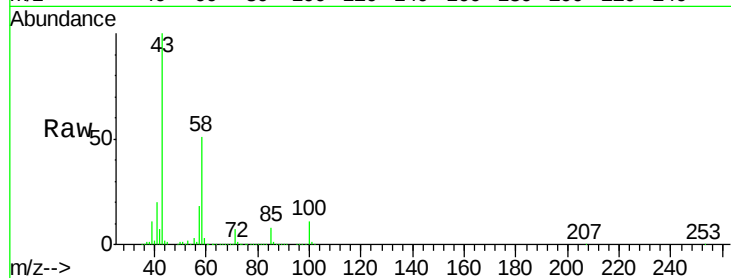




#59  
2-Hexanone  
Concen: 270.546 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

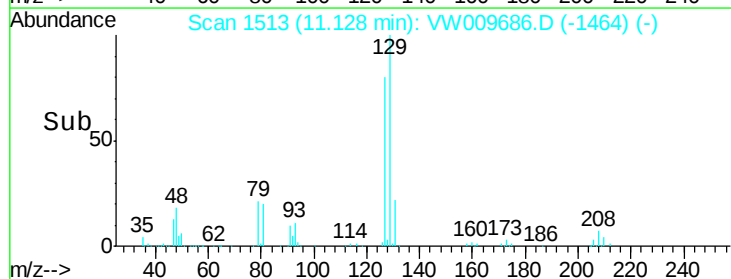
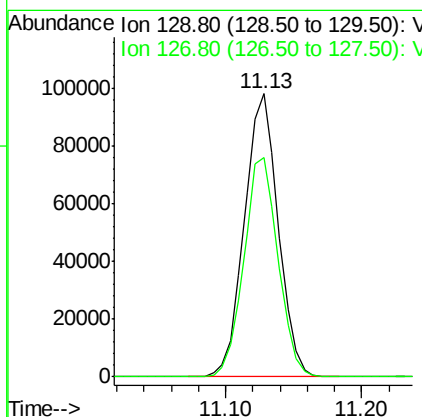
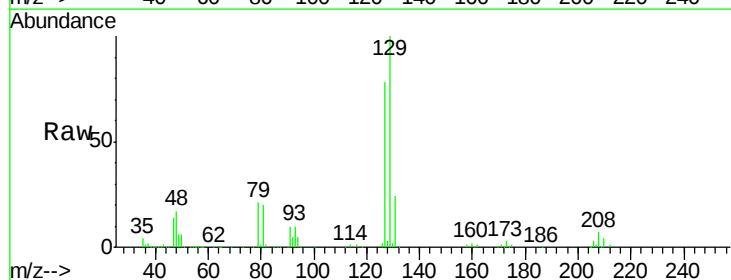
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

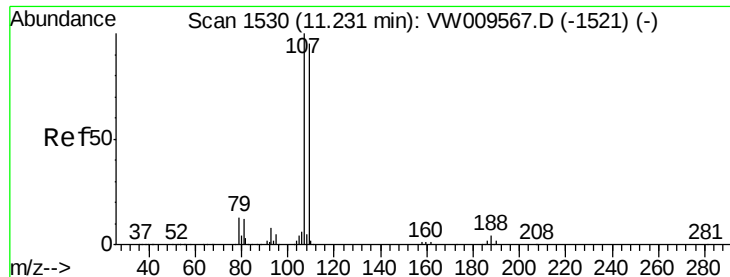
Tgt Ion: 43 Resp: 502353  
Ion Ratio Lower Upper  
43 100  
58 49.3 24.2 72.6



#60  
Dibromochloromethane  
Concen: 51.572 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion: 129 Resp: 170261  
Ion Ratio Lower Upper  
129 100  
127 78.3 38.1 114.5





#61

1,2-Dibromoethane

Concen: 50.979 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

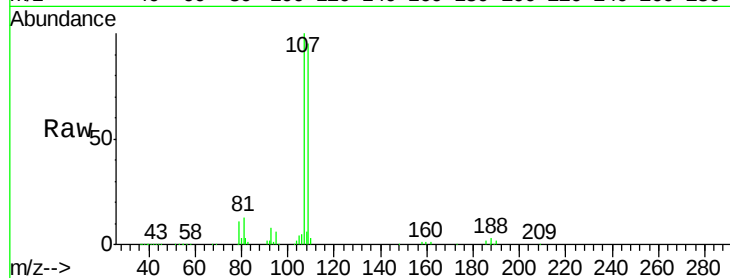
VSTDCCC050

Tgt Ion: 107 Resp: 133663

Ion Ratio Lower Upper

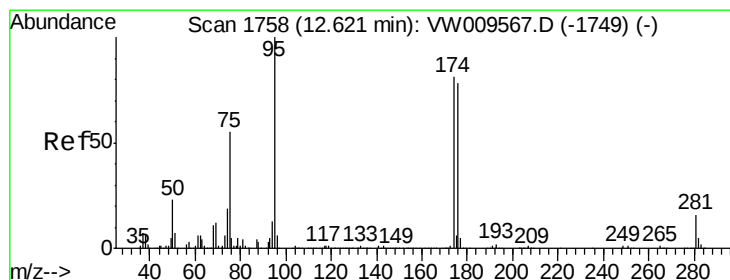
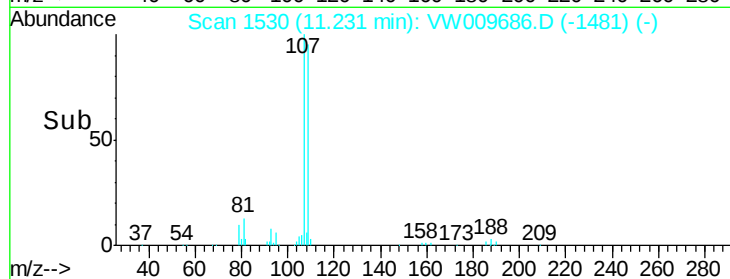
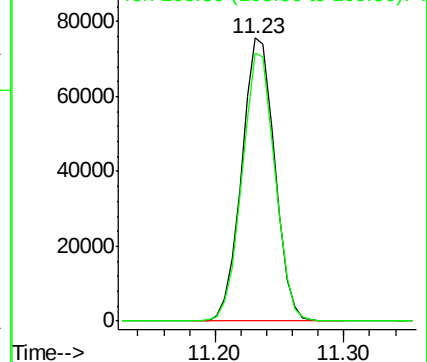
107 100

109 94.2 75.1 112.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 55.355 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

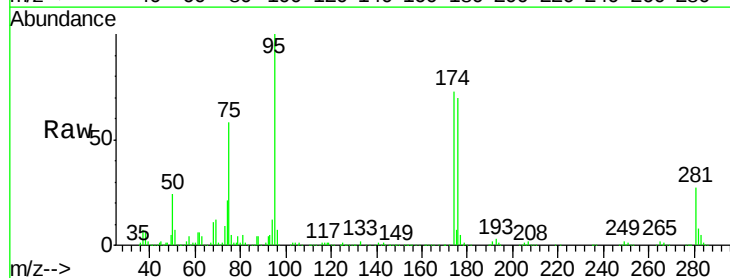
Tgt Ion: 95 Resp: 249620

Ion Ratio Lower Upper

95 100

174 77.3 0.0 168.4

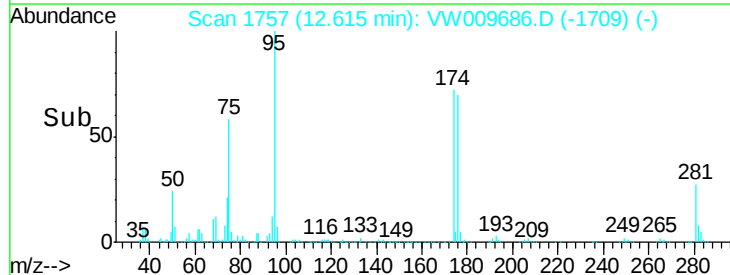
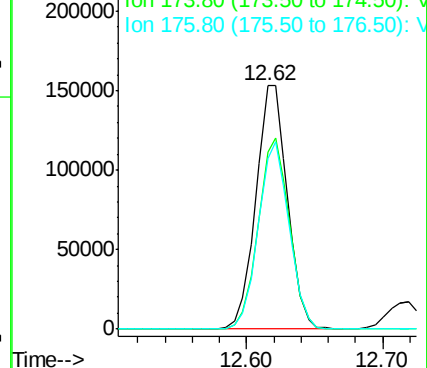
176 75.0 0.0 161.6

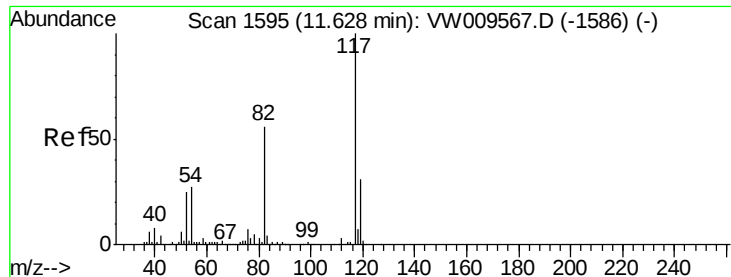


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

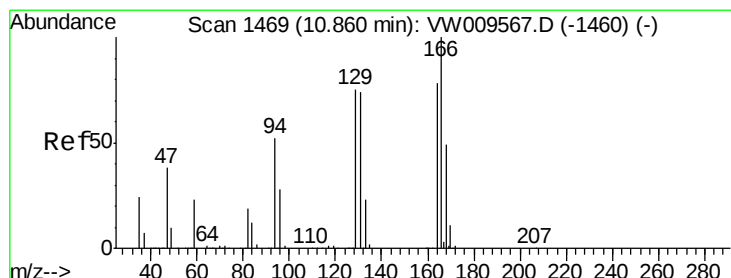
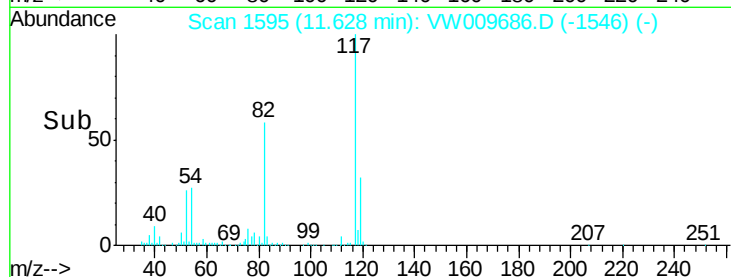
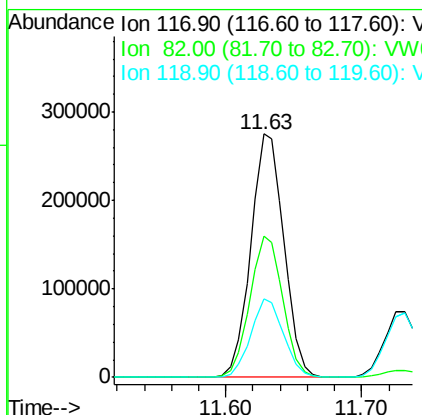
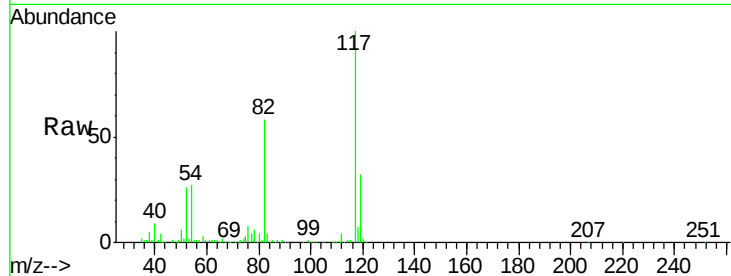




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

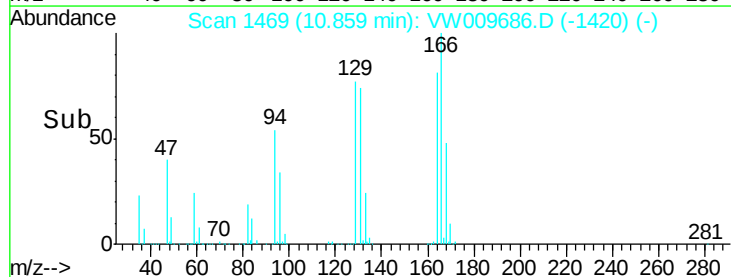
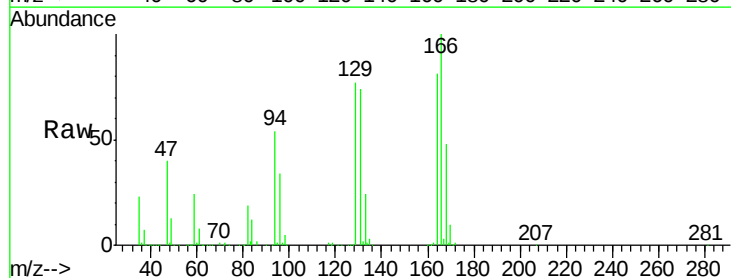
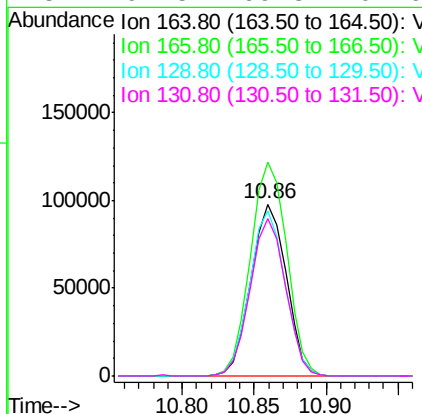
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

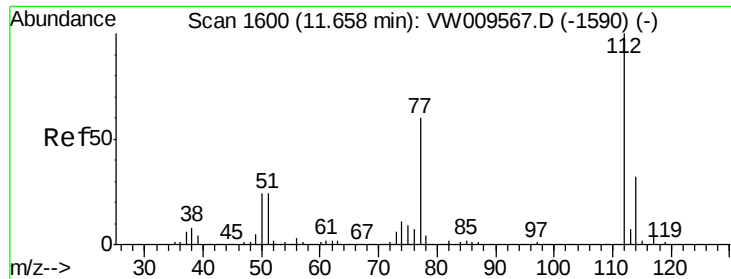
Tgt Ion:117 Resp: 469330  
Ion Ratio Lower Upper  
117 100  
82 57.7 43.6 65.4  
119 32.0 26.0 39.0



#64  
Tetrachloroethene  
Concen: 52.301 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion:164 Resp: 166664  
Ion Ratio Lower Upper  
164 100  
166 124.1 100.9 151.3  
129 95.6 72.0 108.0  
131 91.5 69.8 104.6

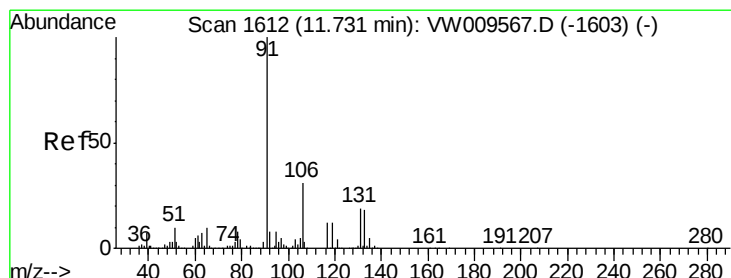
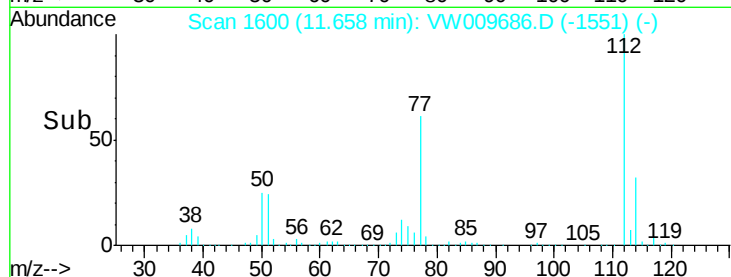
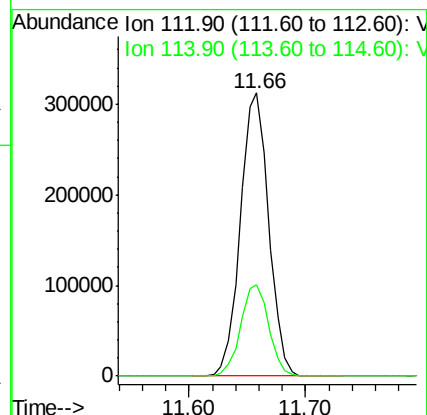
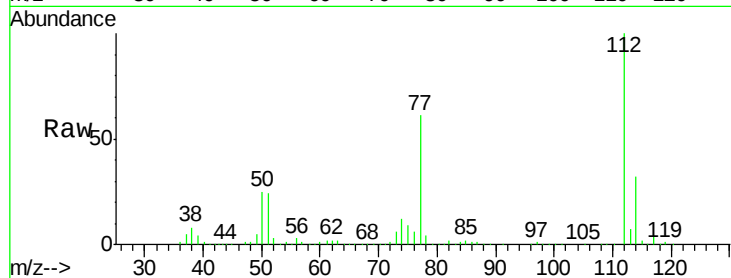




#65  
Chlorobenzene  
Concen: 53.526 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

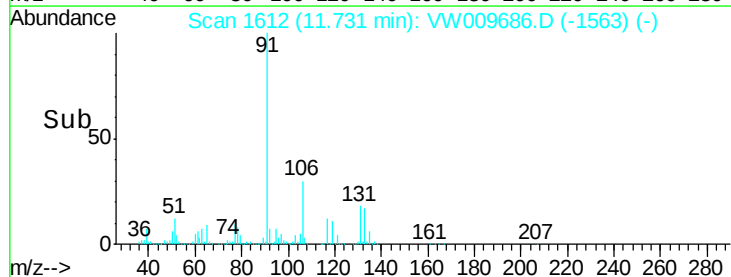
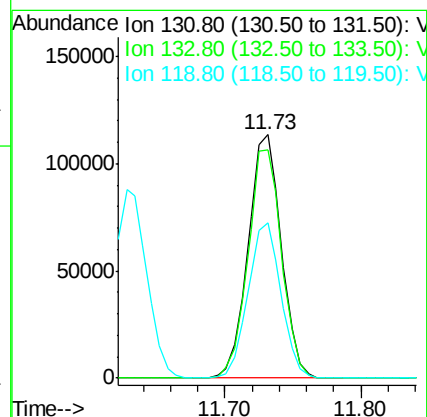
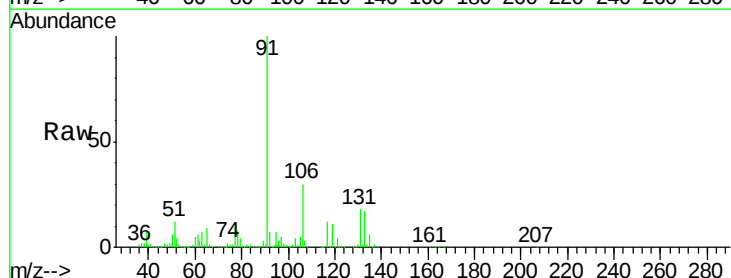
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

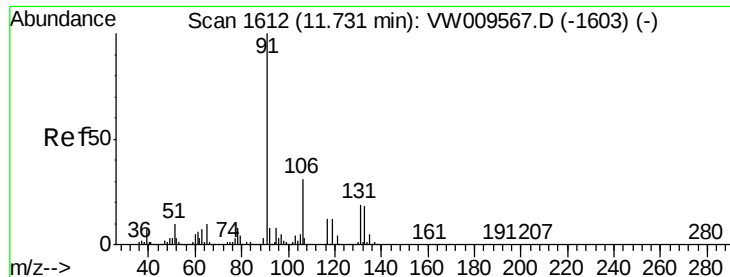
Tgt Ion:112 Resp: 529089  
Ion Ratio Lower Upper  
112 100  
114 32.4 25.6 38.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 53.579 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion:131 Resp: 192968  
Ion Ratio Lower Upper  
131 100  
133 95.6 47.3 141.8  
119 63.8 31.6 95.0

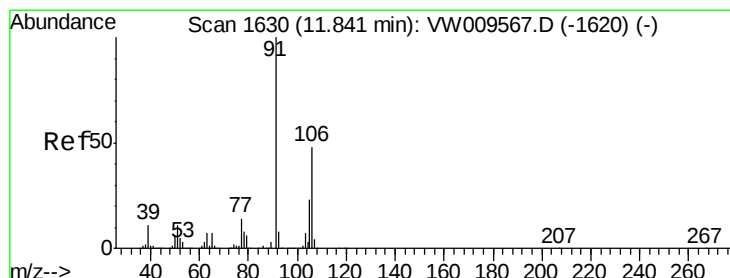
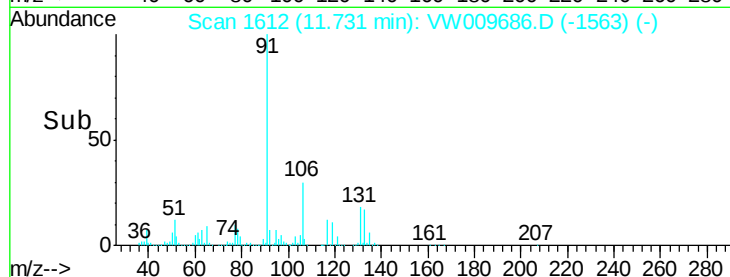
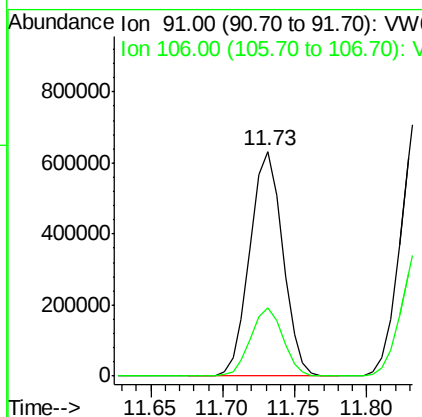
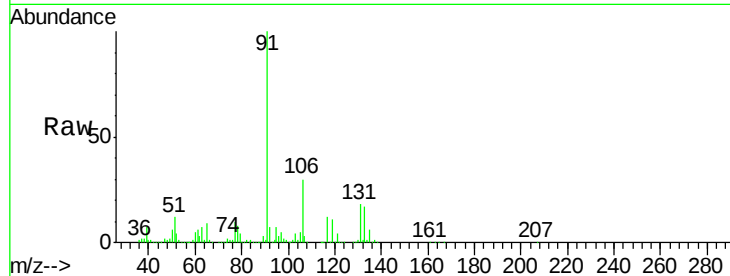




#67  
Ethyl Benzene  
Concen: 57.400 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

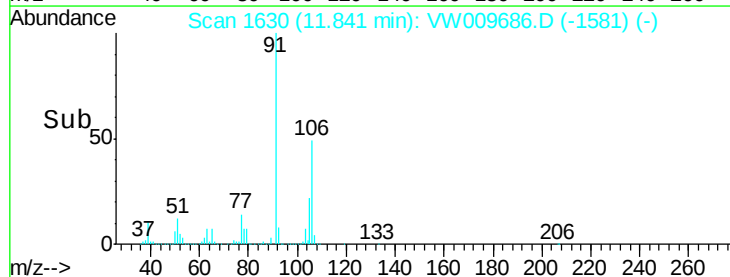
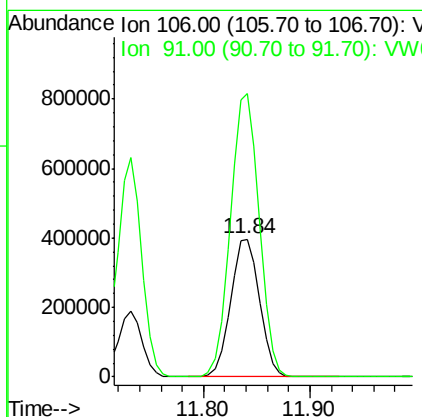
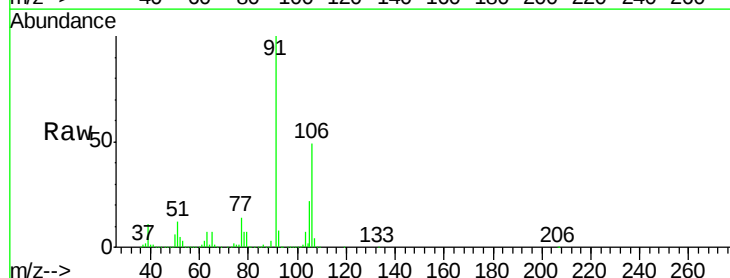
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

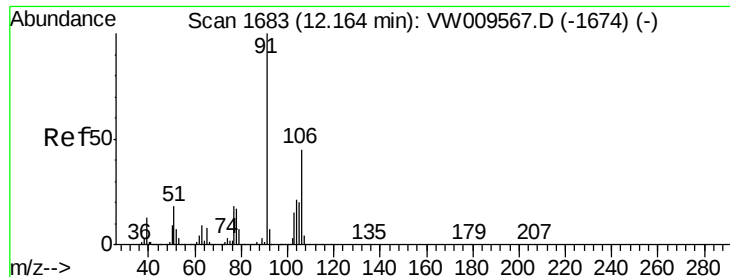
Tgt Ion: 91 Resp: 999623  
Ion Ratio Lower Upper  
91 100  
106 30.2 24.6 36.8



#68  
m/p-Xylenes  
Concen: 113.628 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion: 106 Resp: 751376  
Ion Ratio Lower Upper  
106 100  
91 205.3 163.1 244.7

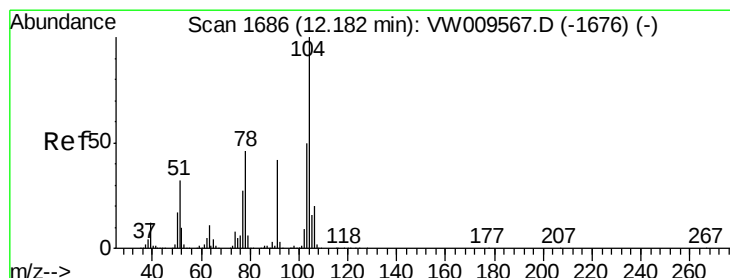
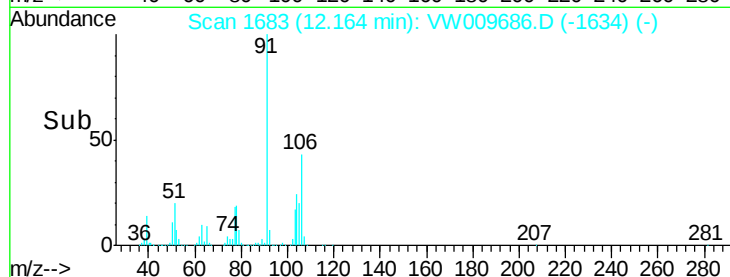
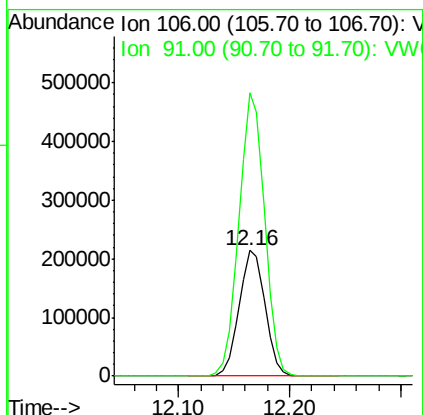
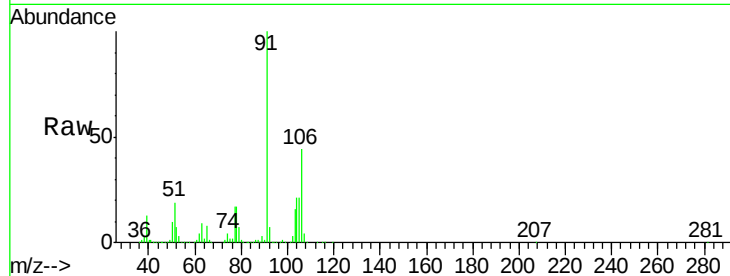




#69  
o-Xylene  
Concen: 56.219 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

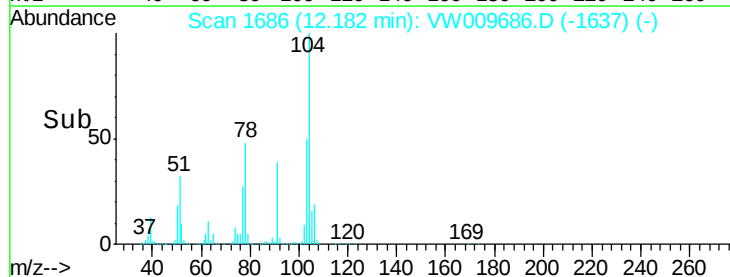
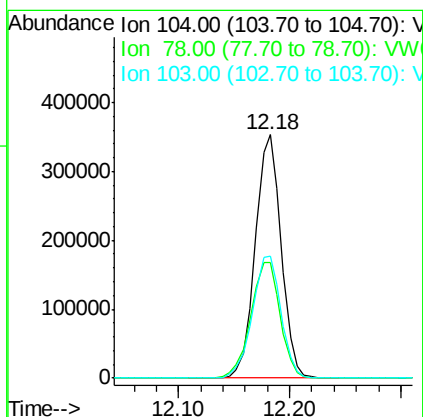
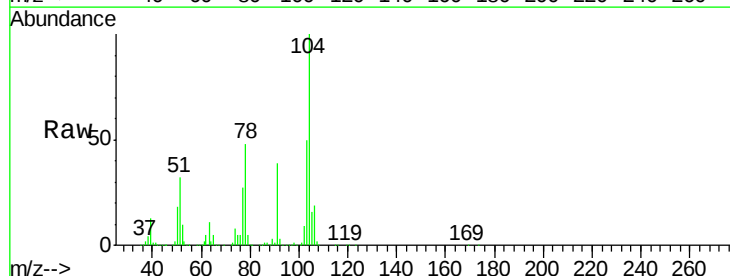
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

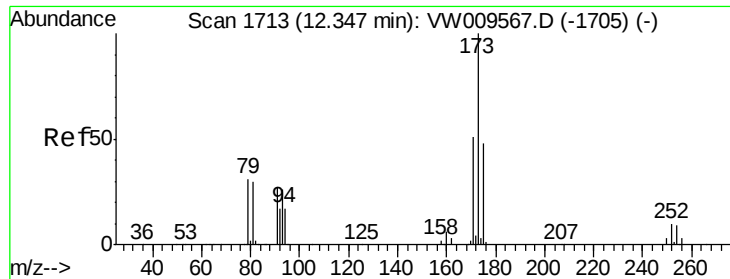
Tgt Ion:106 Resp: 346199  
Ion Ratio Lower Upper  
106 100  
91 222.1 108.6 325.8



#70  
Styrene  
Concen: 55.686 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion:104 Resp: 572777  
Ion Ratio Lower Upper  
104 100  
78 54.1 42.2 63.4  
103 55.5 44.6 66.8

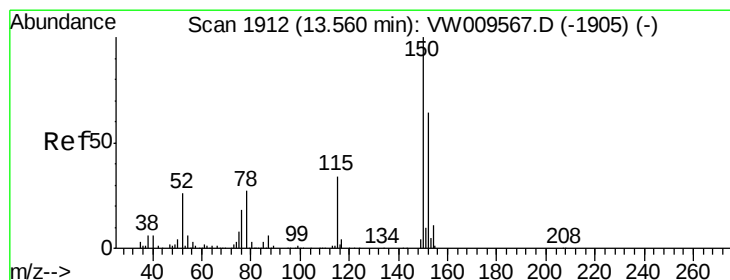
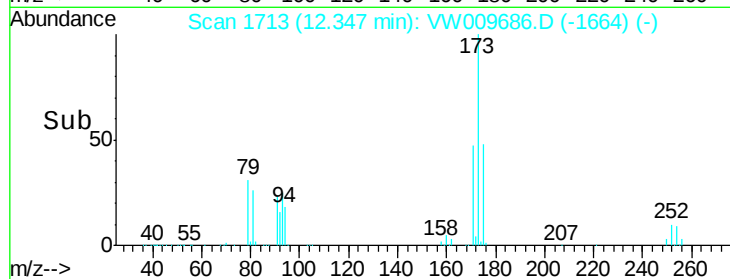
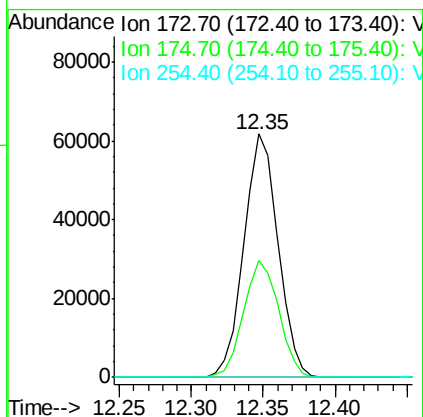
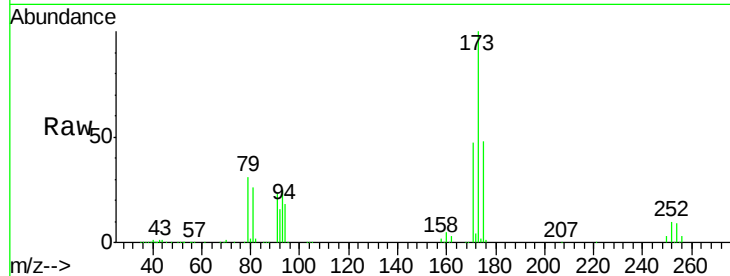




#71  
Bromoform  
Concen: 52.141 ug/l  
RT: 12.35 min Scan# 1713  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

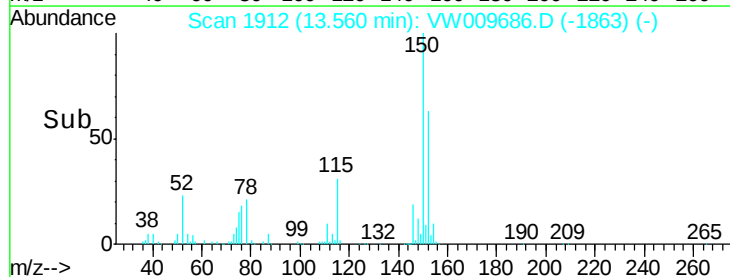
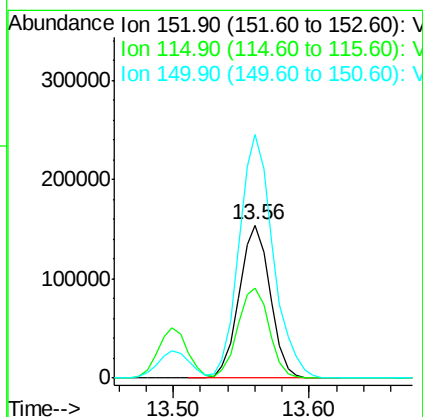
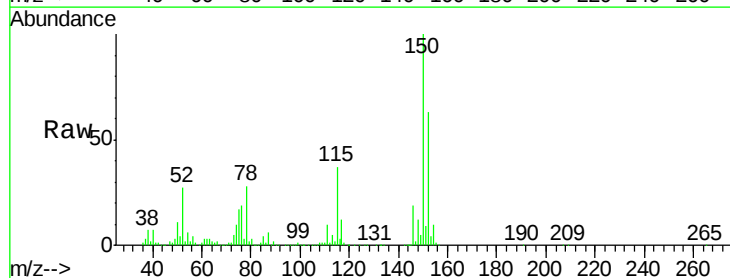
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

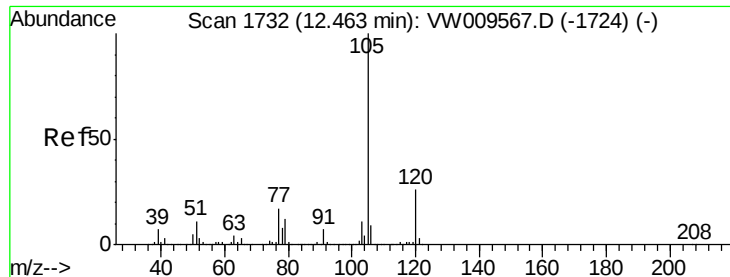
Tgt Ion:173 Resp: 101060  
Ion Ratio Lower Upper  
173 100  
175 49.5 24.1 72.4  
254 0.1 0.2 0.4#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion:152 Resp: 244662  
Ion Ratio Lower Upper  
152 100  
115 59.8 29.6 88.8  
150 174.5 0.0 349.2





#73

Isopropylbenzene

Concen: 59.671 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

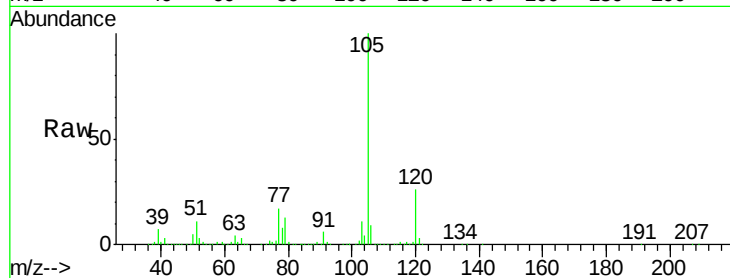
VSTDCCC050

Tgt Ion:105 Resp: 1015994

Ion Ratio Lower Upper

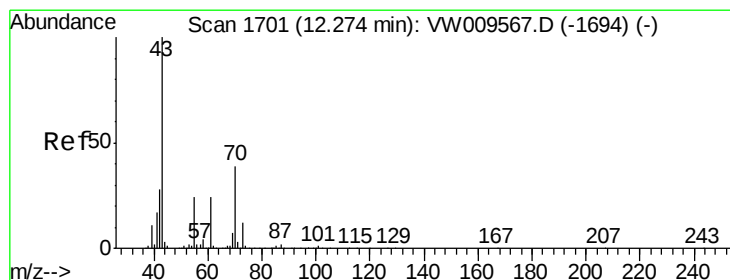
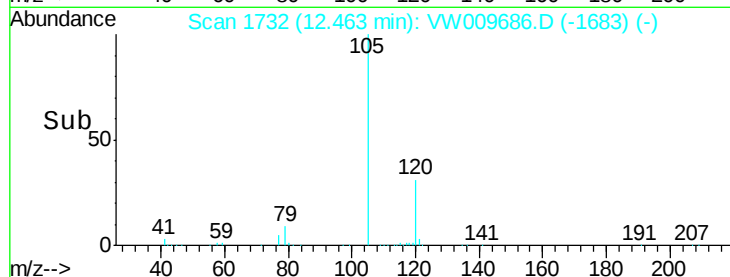
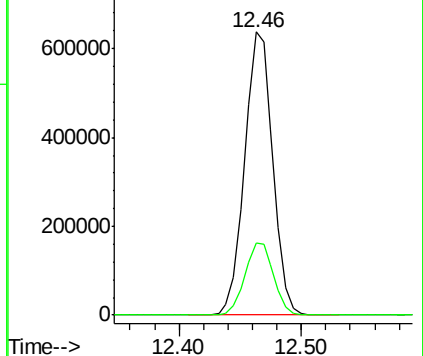
105 100

120 25.9 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 54.984 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Tgt Ion: 43 Resp: 246802

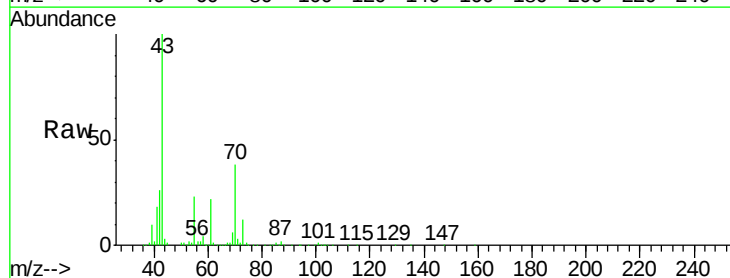
Ion Ratio Lower Upper

43 100

70 37.4 30.6 46.0

55 23.8 19.3 28.9

61 21.9 17.0 25.4

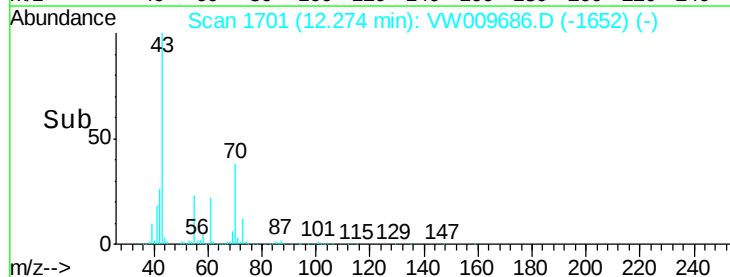
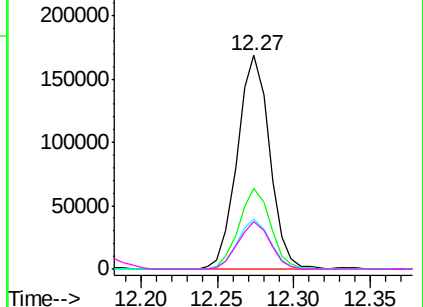


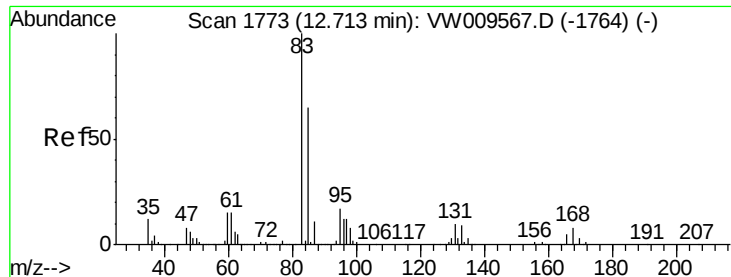
Abundance Ion 43.00 (42.70 to 43.70): VV

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: 51.469 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

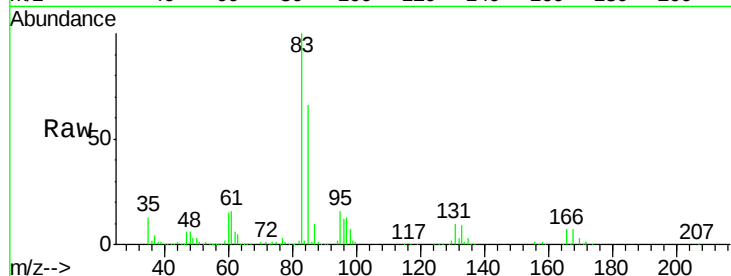
Tgt Ion: 83 Resp: 165728

Ion Ratio Lower Upper

83 100

131 11.0 5.3 16.1

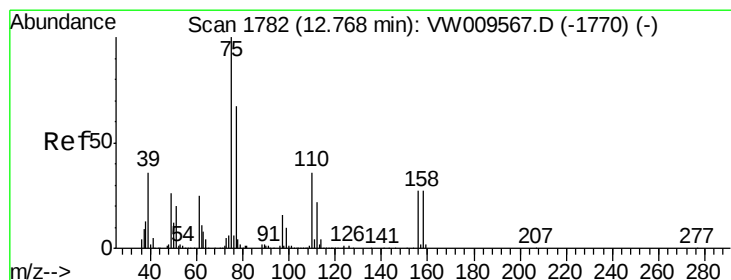
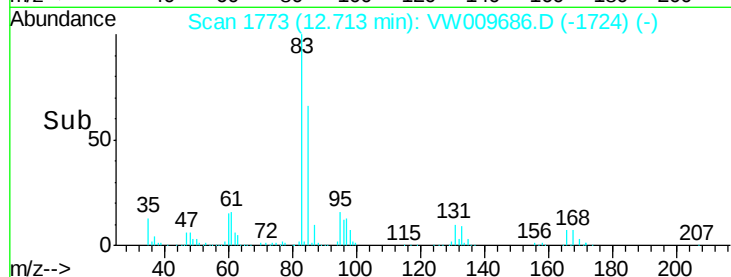
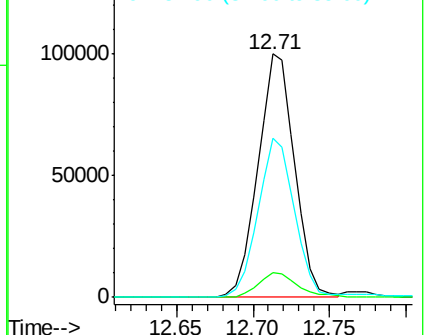
85 65.1 32.6 97.8



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: 103.003 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW009686.D

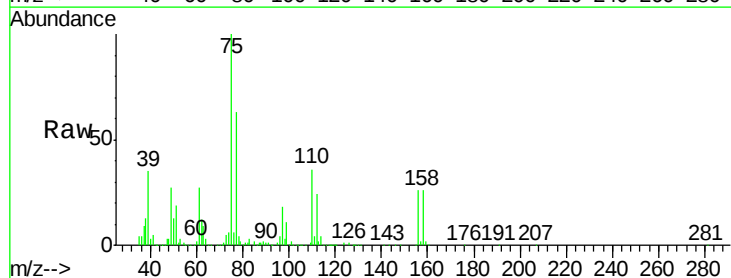
Acq: 04 Apr 2019 10:12

Tgt Ion: 75 Resp: 236987

Ion Ratio Lower Upper

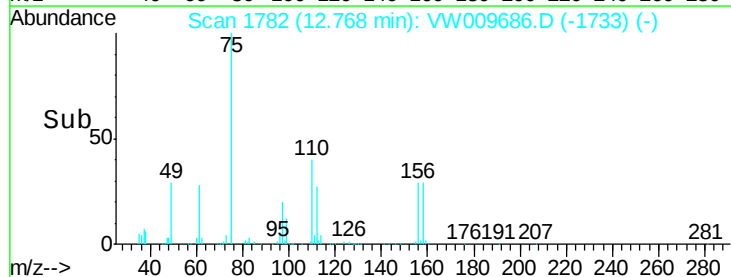
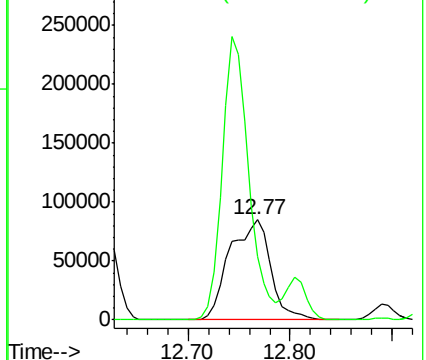
75 100

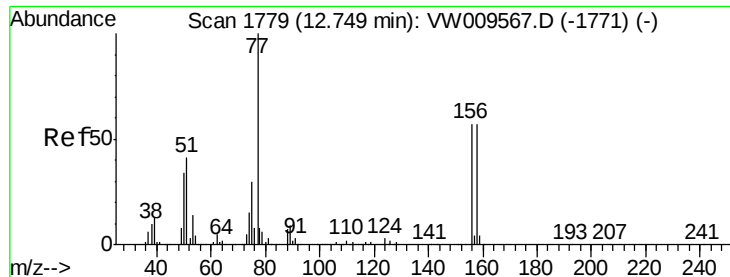
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 54.683 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

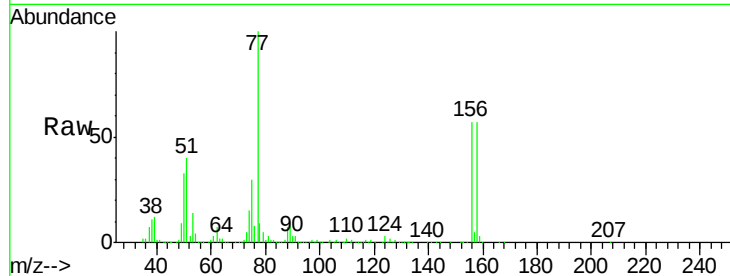
Tgt Ion: 156 Resp: 214410

Ion Ratio Lower Upper

156 100

77 203.2 96.0 288.0

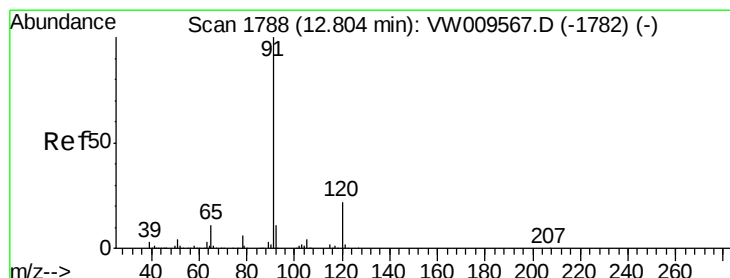
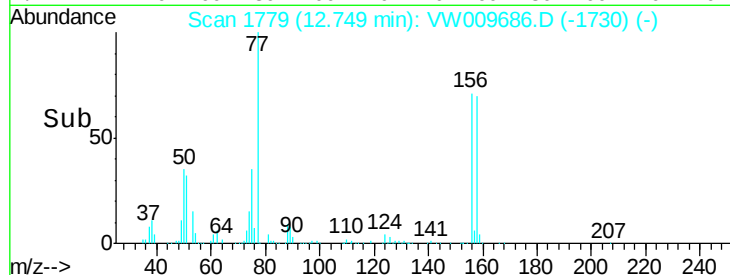
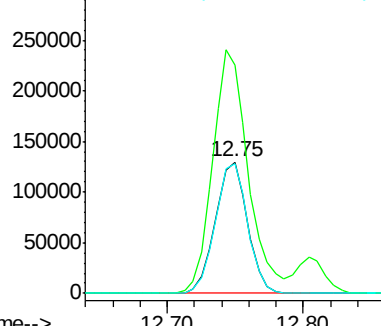
158 99.0 49.1 147.3



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: 59.058 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW009686.D

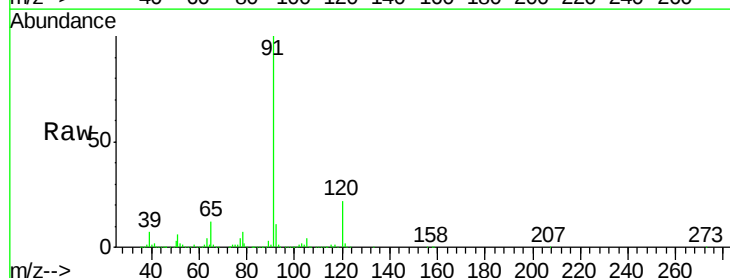
Acq: 04 Apr 2019 10:12

Tgt Ion: 91 Resp: 1239954

Ion Ratio Lower Upper

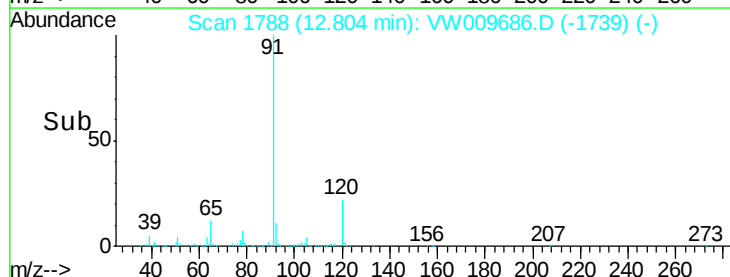
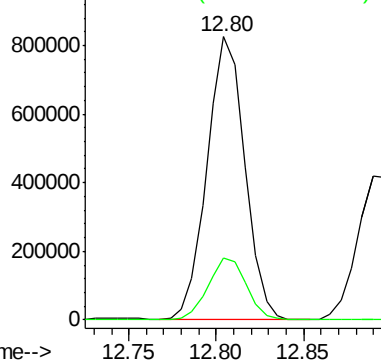
91 100

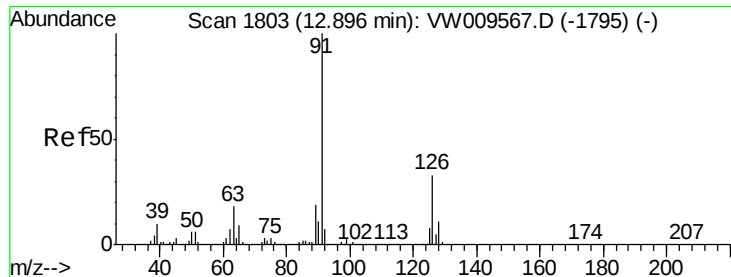
120 22.2 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 58.008 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

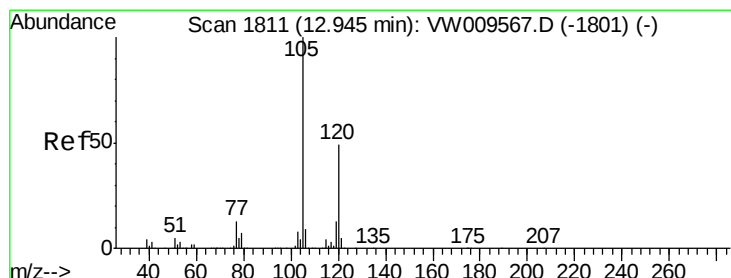
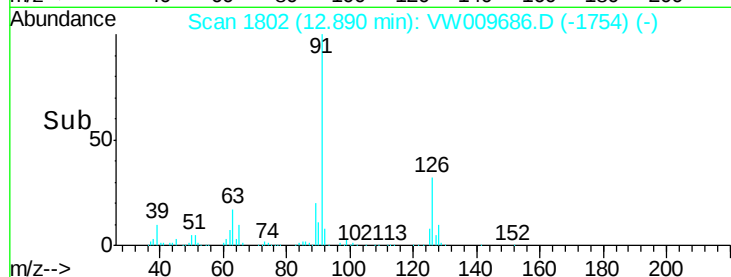
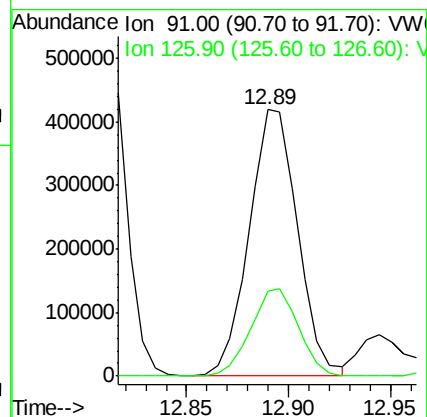
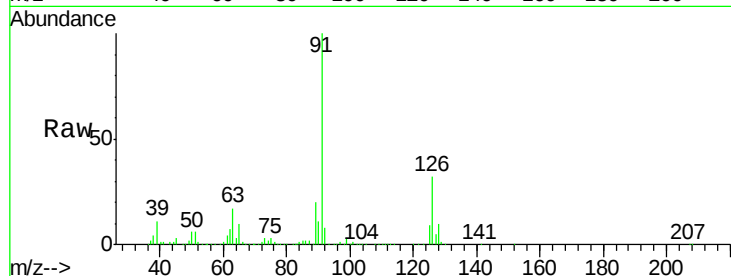
VSTDCCC050

Tgt Ion: 91 Resp: 692141

Ion Ratio Lower Upper

91 100

126 32.5 17.0 51.0



#80

1,3,5-Trimethylbenzene

Concen: 59.288 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW009686.D

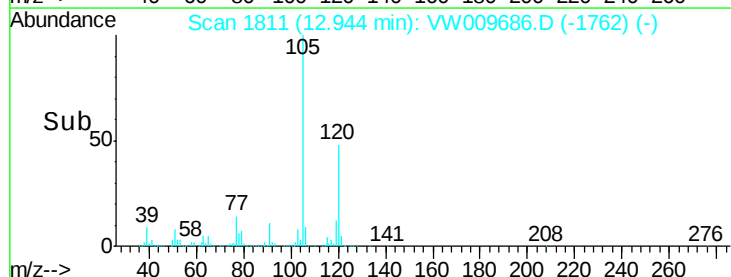
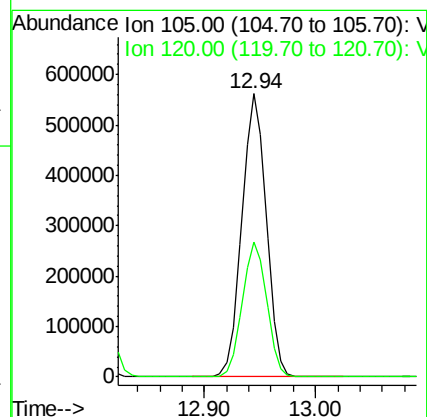
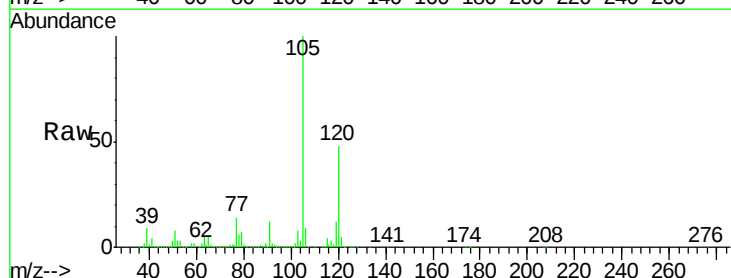
Acq: 04 Apr 2019 10:12

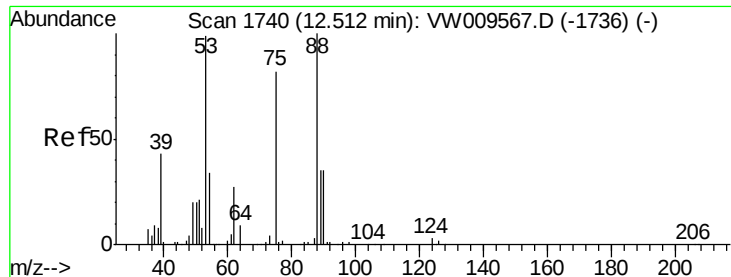
Tgt Ion: 105 Resp: 850131

Ion Ratio Lower Upper

105 100

120 47.8 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.784 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

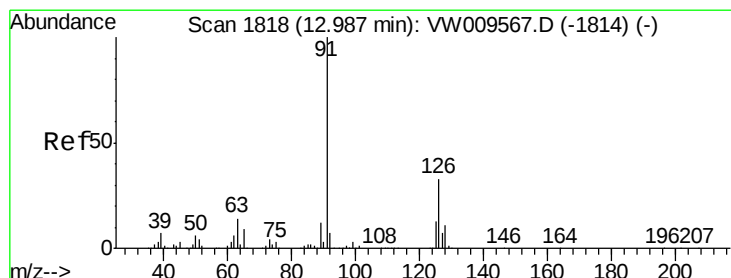
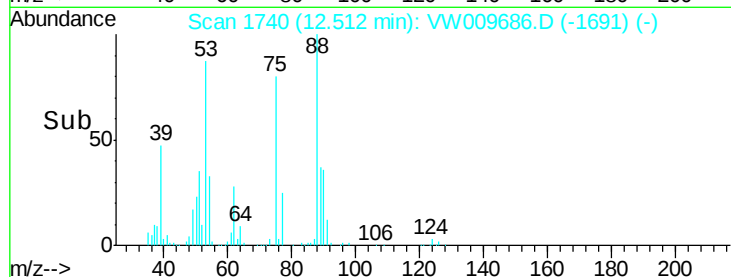
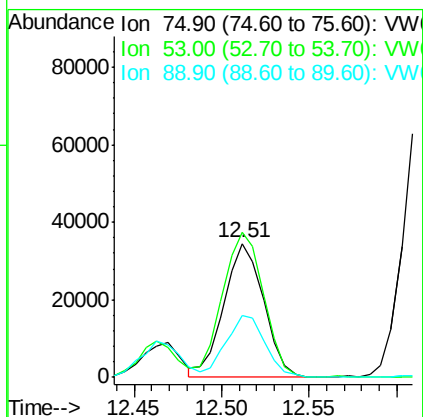
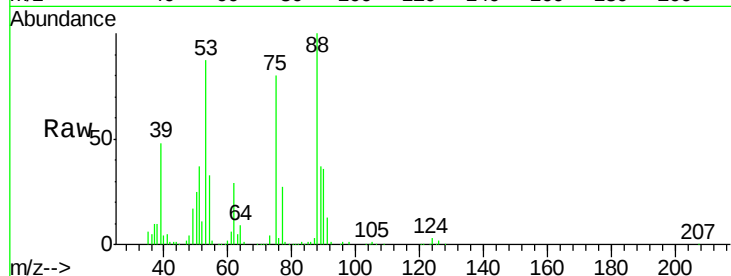
Tgt Ion: 75 Resp: 54202

Ion Ratio Lower Upper

75 100

53 112.3 86.7 130.1

89 46.1 36.4 54.6



#82

4-Chlorotoluene

Concen: 57.745 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW009686.D

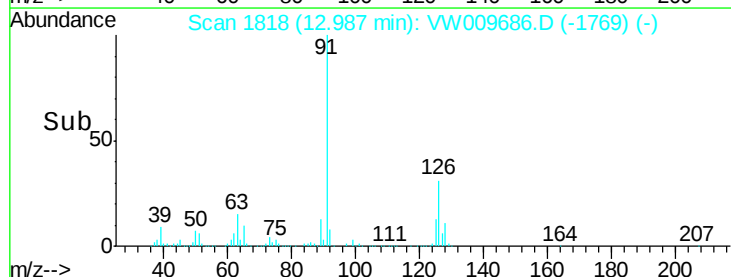
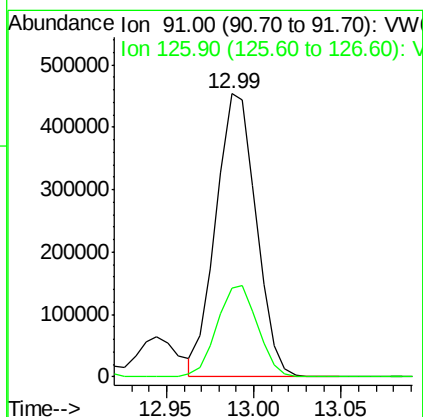
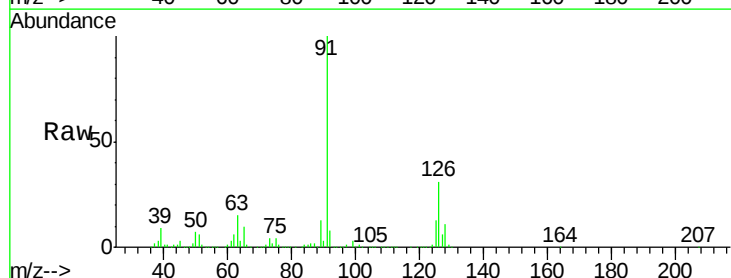
Acq: 04 Apr 2019 10:12

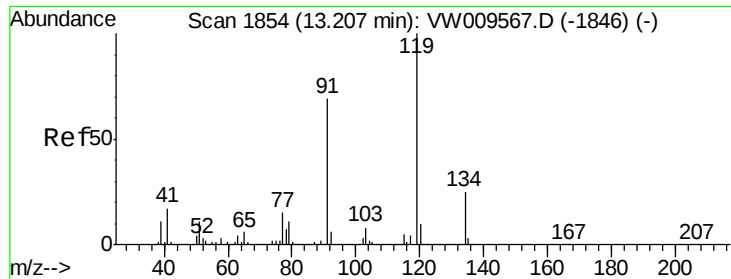
Tgt Ion: 91 Resp: 725118

Ion Ratio Lower Upper

91 100

126 32.6 16.9 50.6

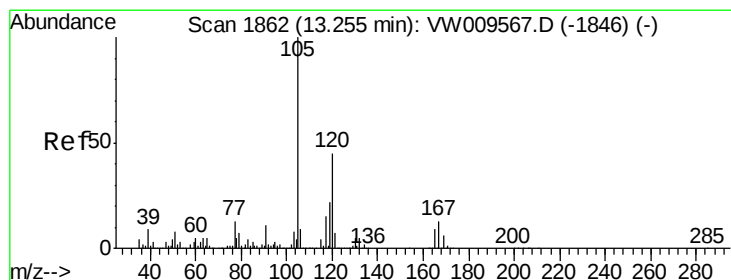
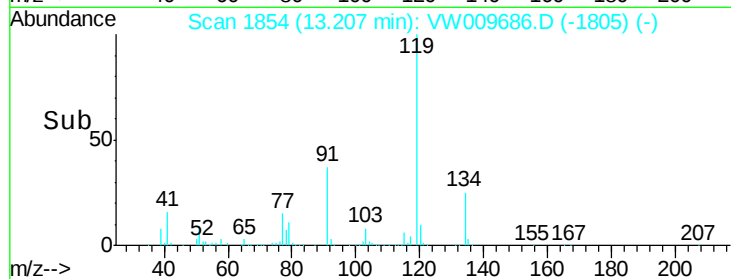
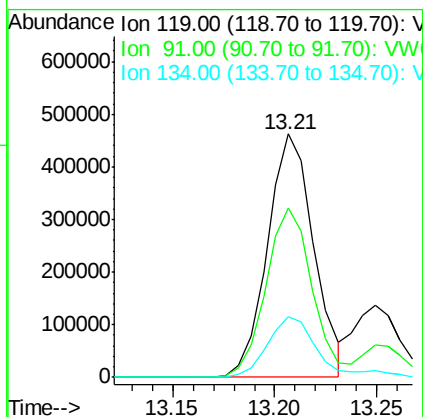
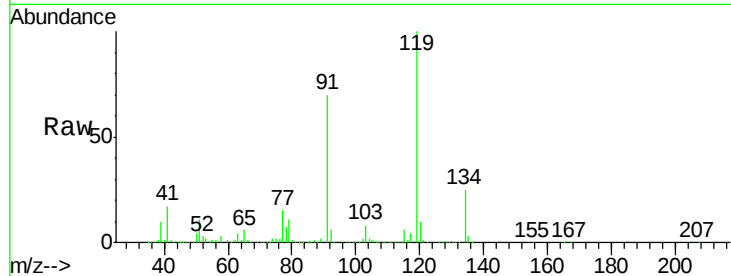




#83  
 tert-Butylbenzene  
 Concen: 59.824 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

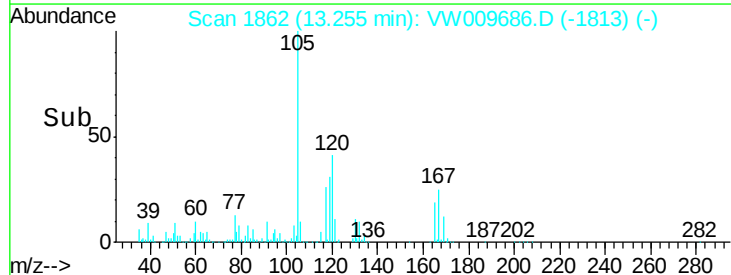
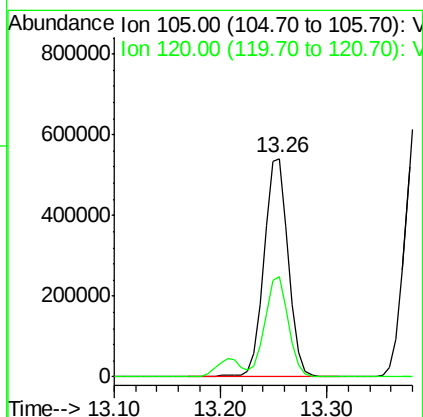
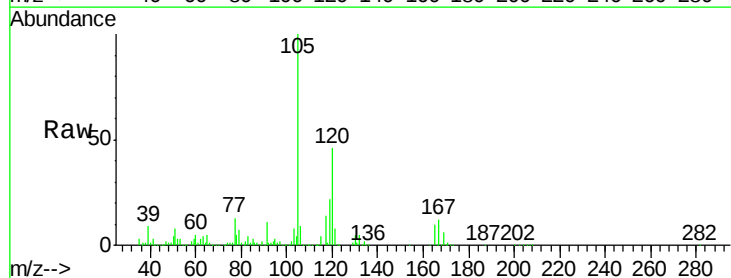
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

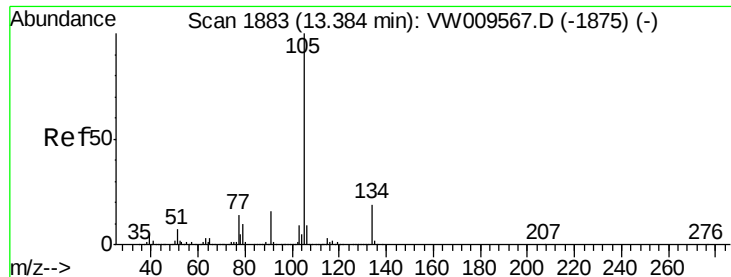
Tgt Ion:119 Resp: 730227  
 Ion Ratio Lower Upper  
 119 100  
 91 70.1 34.4 103.2  
 134 27.2 12.7 38.1



#84  
 1,2,4-Trimethylbenzene  
 Concen: 58.408 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Tgt Ion:105 Resp: 860978  
 Ion Ratio Lower Upper  
 105 100  
 120 44.4 22.8 68.3





#85

sec-Butylbenzene

Concen: 58.816 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

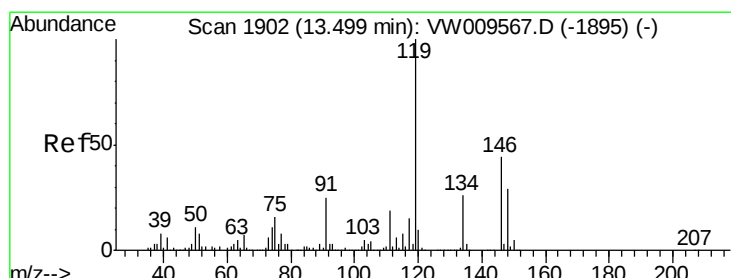
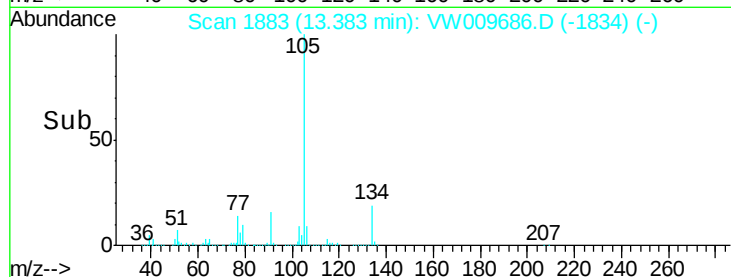
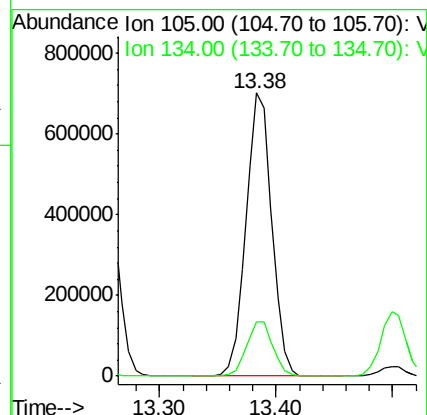
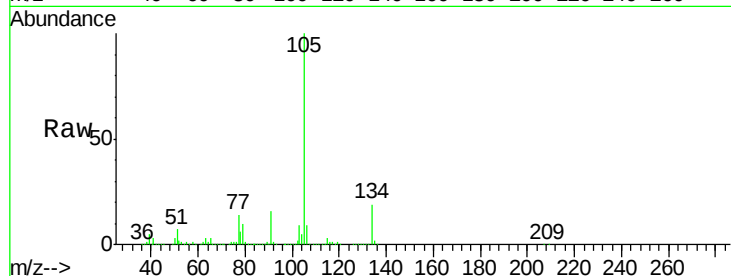
VSTDCCC050

Tgt Ion:105 Resp: 1083110

Ion Ratio Lower Upper

105 100

134 19.7 10.2 30.6



#86

p-Isopropyltoluene

Concen: 59.142 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

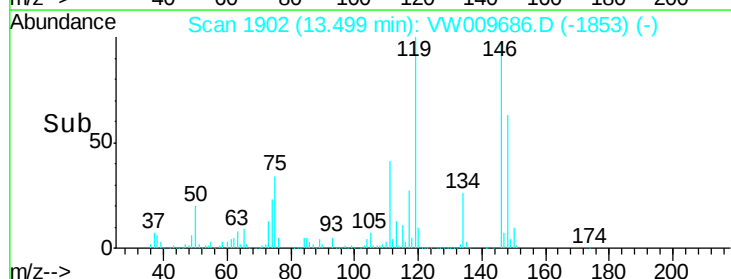
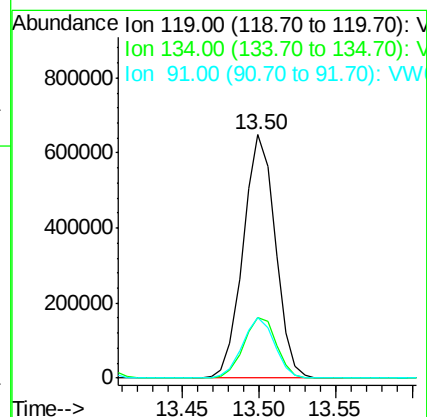
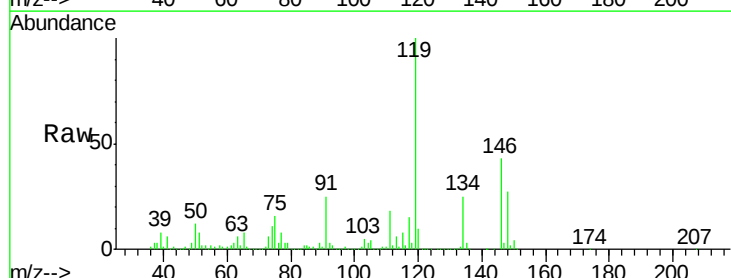
Tgt Ion:119 Resp: 947299

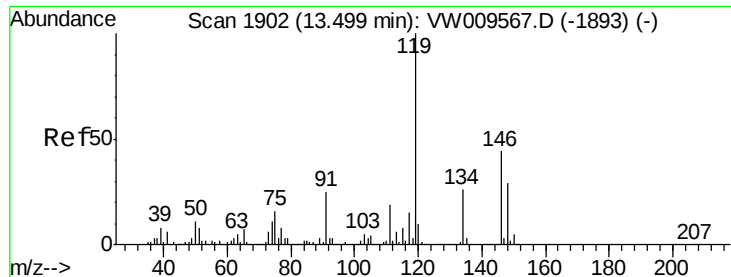
Ion Ratio Lower Upper

119 100

134 25.6 13.1 39.3

91 24.9 12.3 36.8

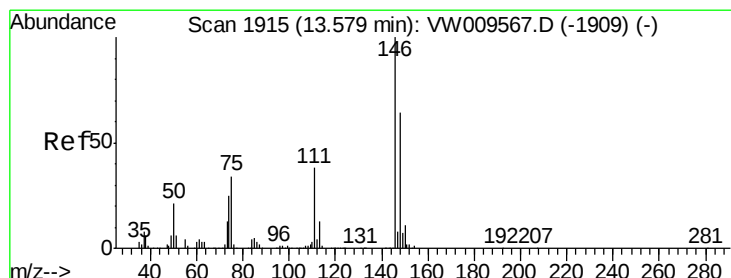
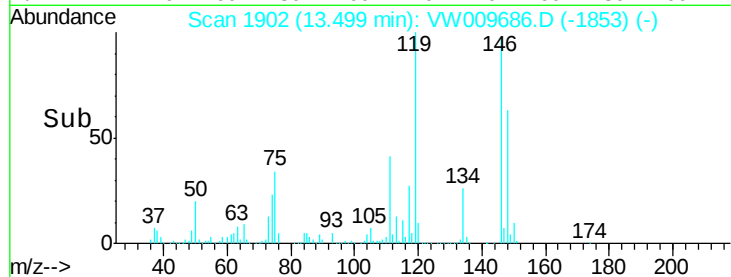
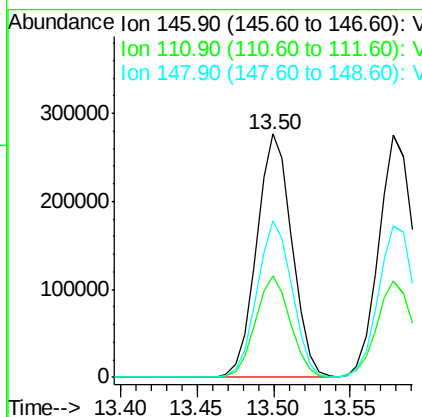
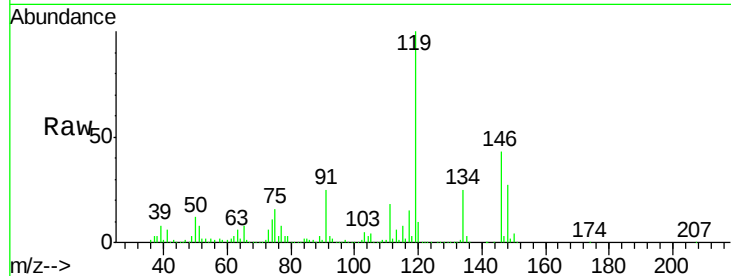




#87  
 1,3-Dichlorobenzene  
 Concen: 54.833 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

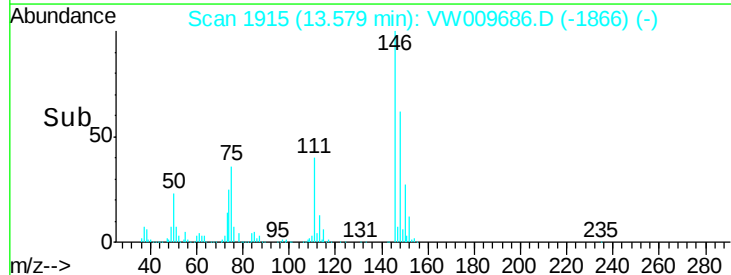
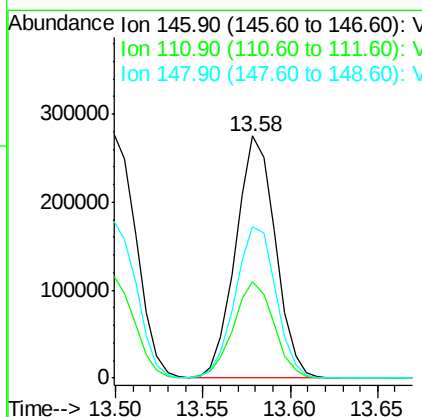
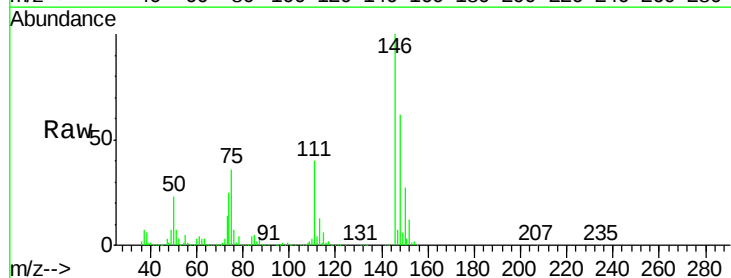
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

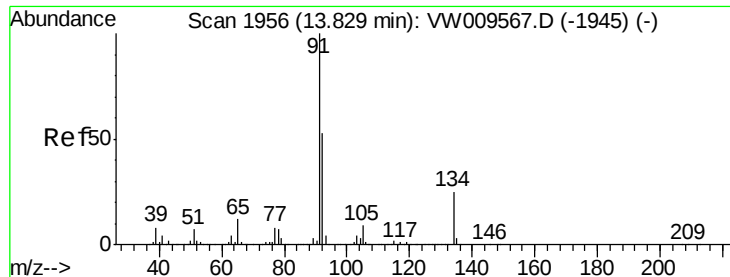
Tgt Ion:146 Resp: 443917  
 Ion Ratio Lower Upper  
 146 100  
 111 41.1 20.1 60.2  
 148 63.9 31.4 94.3



#88  
 1,4-Dichlorobenzene  
 Concen: 53.662 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Tgt Ion:146 Resp: 433928  
 Ion Ratio Lower Upper  
 146 100  
 111 40.6 19.9 59.6  
 148 64.2 32.2 96.6





#89

n-Butylbenzene

Concen: 58.860 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW009686.D

Acq: 04 Apr 2019 10:12

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

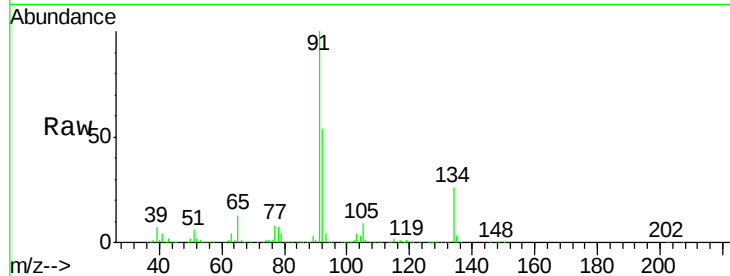
Tgt Ion: 91 Resp: 930583

Ion Ratio Lower Upper

91 100

92 53.5 26.4 79.0

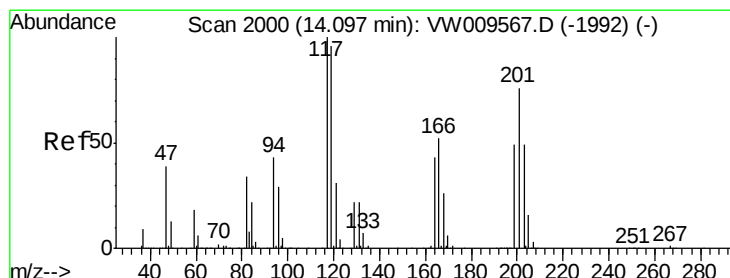
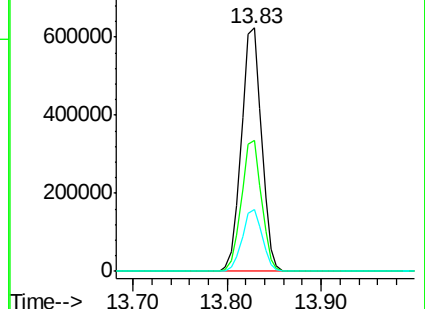
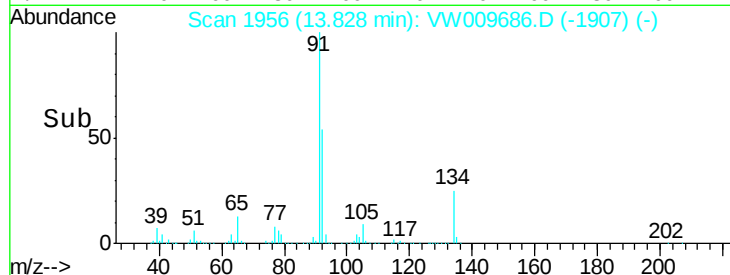
134 25.2 12.9 38.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 56.874 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW009686.D

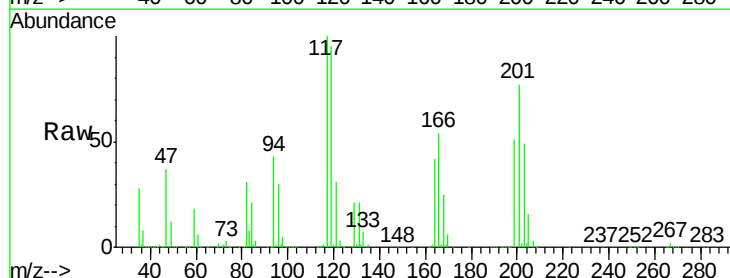
Acq: 04 Apr 2019 10:12

Tgt Ion: 117 Resp: 174444

Ion Ratio Lower Upper

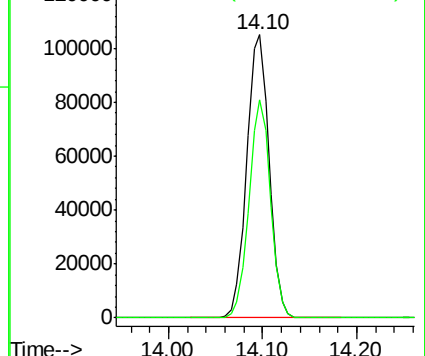
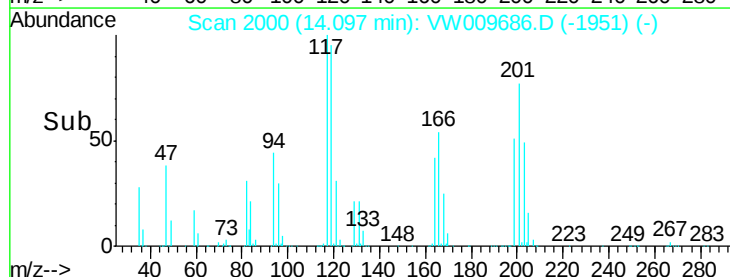
117 100

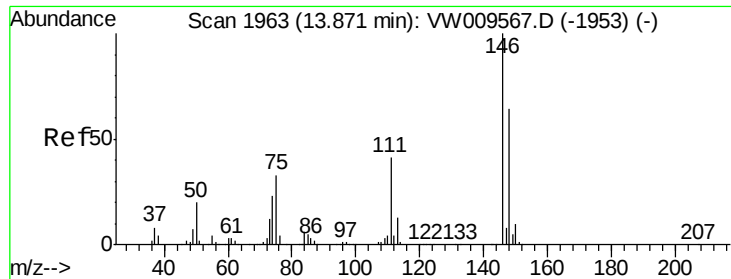
201 74.1 38.2 114.6



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

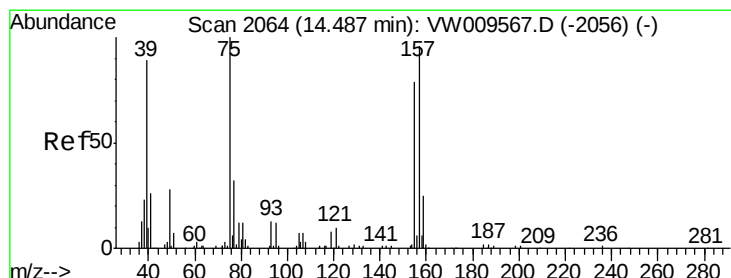
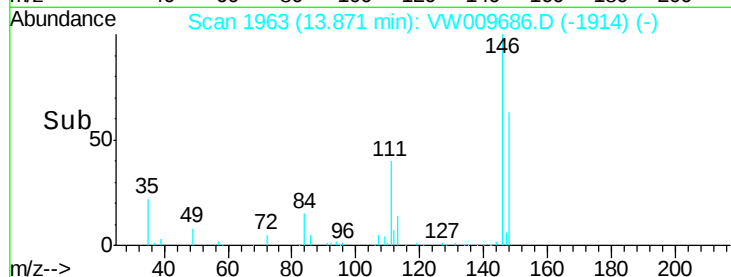
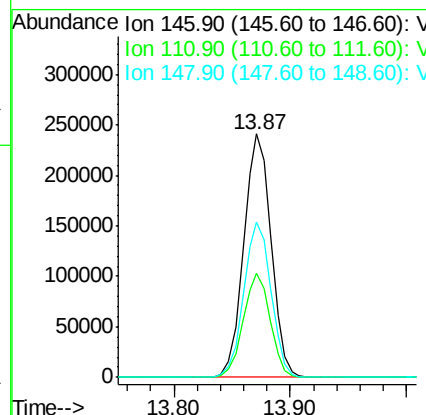
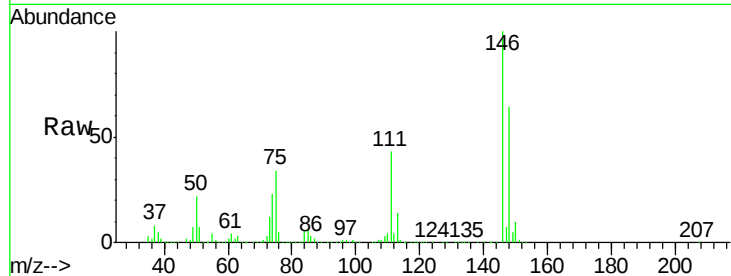




#91  
 1,2-Dichlorobenzene  
 Concen: 54.348 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

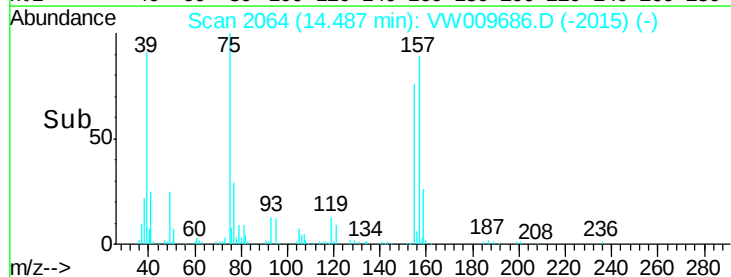
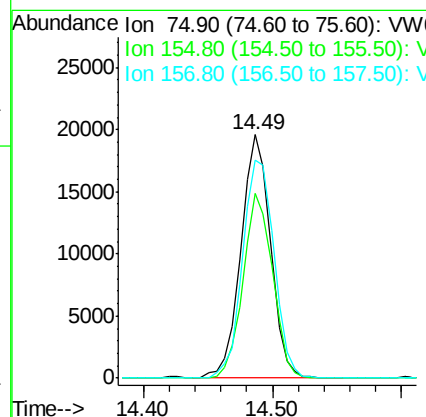
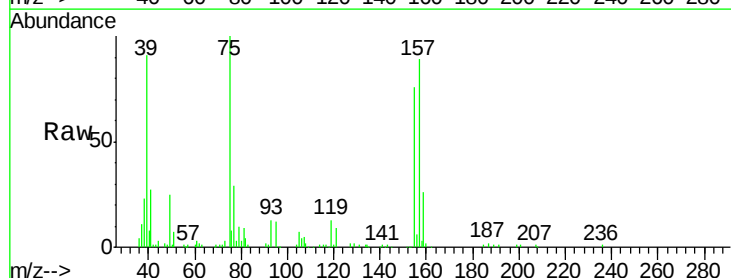
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

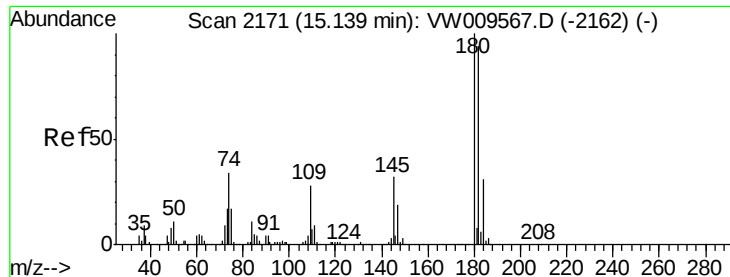
Tgt Ion:146 Resp: 393451  
 Ion Ratio Lower Upper  
 146 100  
 111 42.0 20.4 61.2  
 148 63.9 31.9 95.9



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 53.054 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Tgt Ion: 75 Resp: 31186  
 Ion Ratio Lower Upper  
 75 100  
 155 75.1 39.3 117.8  
 157 95.0 49.5 148.5

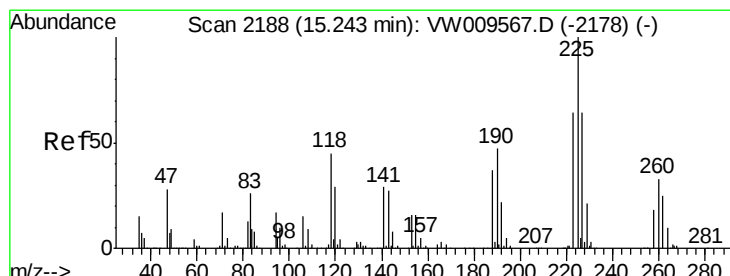
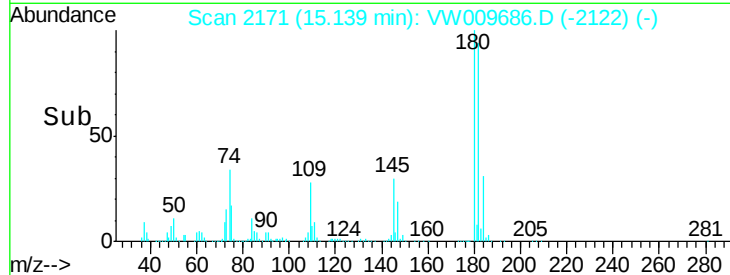
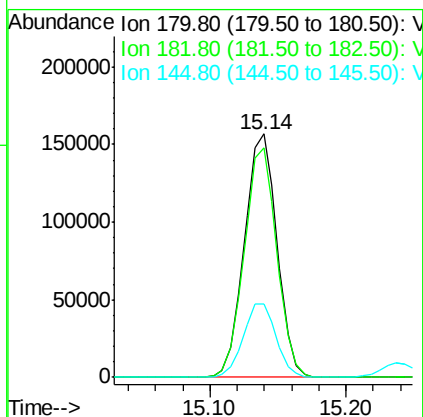
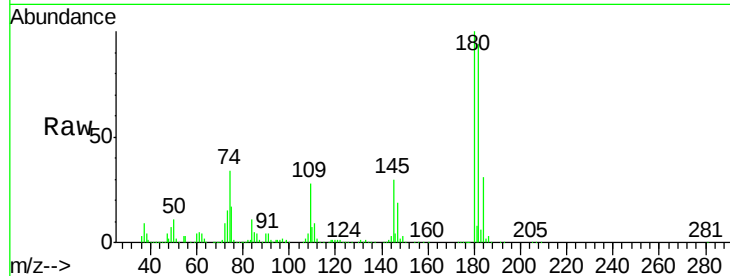




#93  
 1,2,4-Trichlorobenzene  
 Concen: 56.486 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

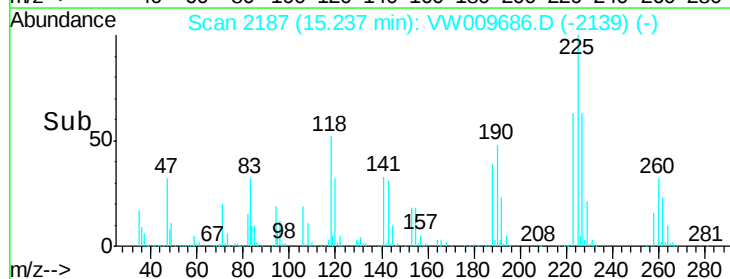
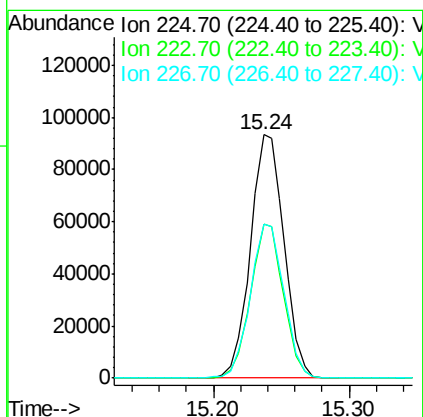
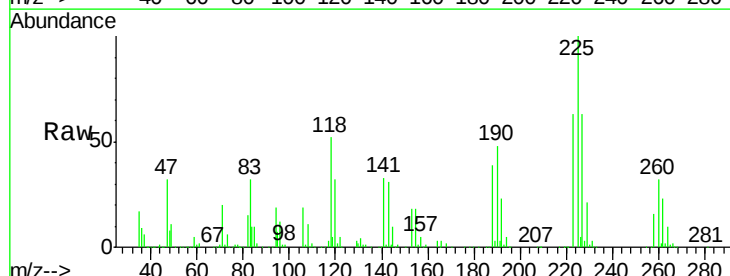
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

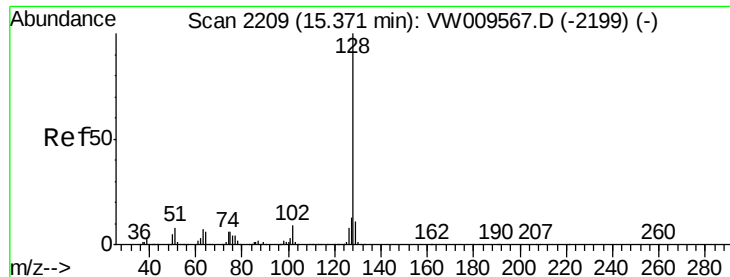
Tgt Ion:180 Resp: 263350  
 Ion Ratio Lower Upper  
 180 100  
 182 94.4 47.9 143.7  
 145 30.6 15.0 45.0



#94  
 Hexachlorobutadiene  
 Concen: 53.892 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.01 min  
 Lab File: VW009686.D  
 Acq: 04 Apr 2019 10:12

Tgt Ion:225 Resp: 161358  
 Ion Ratio Lower Upper  
 225 100  
 223 62.2 31.4 94.3  
 227 63.4 32.1 96.5

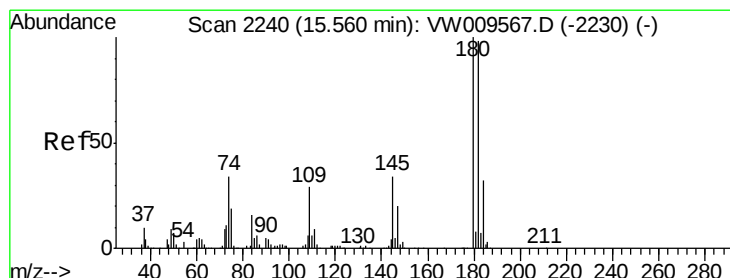
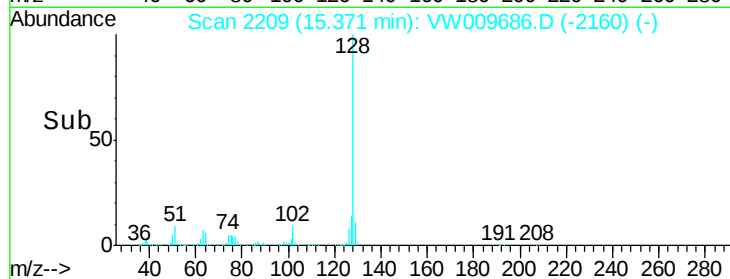
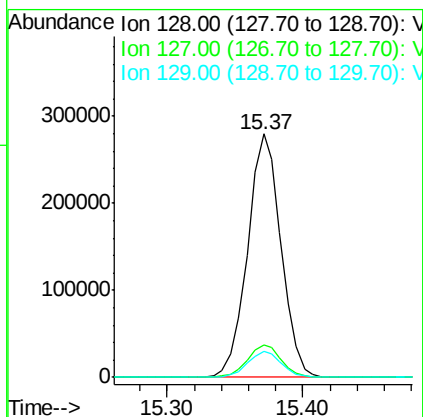
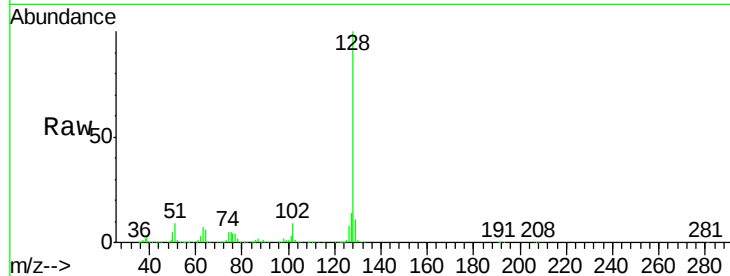




#95  
Naphthalene  
Concen: 50.612 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion:128 Resp: 479911  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.8 16.2  
129 10.7 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 54.278 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: VW009686.D  
Acq: 04 Apr 2019 10:12

Tgt Ion:180 Resp: 226090  
Ion Ratio Lower Upper  
180 100  
182 95.4 47.3 141.9  
145 33.1 16.0 48.0

