

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091218\  
 Data File : VW005321.D  
 Acq On : 12 Sep 2018 13:24  
 Operator : SY/AP  
 Sample : VW0912SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 12 14:30:39 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 03:48:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 437842   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 623624   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 615279   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 350690   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 187078   | 57.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 114.58% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 185491   | 56.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.56% |      |
| 50) Toluene-d8            | 10.33  | 98  | 885380   | 53.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.28% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 334455   | 55.39 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.78% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 93556  | 24.770  | ug/l   | 100    |
| 3) Chloromethane              | 2.21 | 50  | 126299 | 25.012  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 114047 | 24.602  | ug/l   | 97     |
| 5) Bromomethane               | 2.74 | 94  | 74258  | 24.911  | ug/l   | 100    |
| 6) Chloroethane               | 2.90 | 64  | 61920  | 24.249  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 126567 | 24.135  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 45234  | 24.204  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 86843  | 23.185  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 76525  | 18.670  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 36742  | 137.193 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 79955  | 23.183  | ug/l   | 94     |
| 13) Acrolein                  | 3.90 | 56  | 32511  | 125.672 | ug/l   | 100    |
| 14) Allyl chloride            | 4.67 | 41  | 123026 | 23.215  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 109614 | 130.002 | ug/l   | 98     |
| 16) Acetone                   | 4.13 | 43  | 86561  | 142.801 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.38 | 76  | 292605 | 24.170  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.68 | 43  | 46504  | 25.700  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 200180 | 24.369  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.92 | 84  | 115438 | 23.907  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 92974  | 23.088  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.32 | 45  | 263730 | 24.719  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 756672 | 127.264 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 155008 | 23.603  | ug/l   | 98     |
| 25) 2-Butanone                | 7.18 | 43  | 133862 | 140.003 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 132555 | 23.280  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 99606  | 23.112  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.52 | 49  | 58781  | 24.262  | ug/l # | 97     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 84815  | 131.631 | ug/l   | 98     |
| 30) Chloroform                | 7.68 | 83  | 153465 | 23.285  | ug/l   | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 164395 | 23.525  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 135909 | 22.826  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 135853 | 23.778  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 59266  | 27.271  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 120377 | 22.492  | ug/l   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091218\  
 Data File : VW005321.D  
 Acq On : 12 Sep 2018 13:24  
 Operator : SY/AP  
 Sample : VW0912SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 12 14:30:39 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 03:48:23 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 168377   | 22.196  | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 390739   | 23.213  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 29597    | 26.546  | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 8.41  | 62   | 95906    | 23.816  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 104203   | 25.821  | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 104828   | 22.701  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 97586    | 24.120  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 46224    | 23.341  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.65  | 83   | 111431   | 23.001  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.45  | 41   | 48680    | 23.232  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 18968    | 512.994 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 287730   | 126.696 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 269507   | 22.030  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 120471   | 23.010  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 145308   | 23.176  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 75299    | 23.846  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 92540    | 23.117  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 123069   | 23.471  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 207879   | 119.474 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 214191   | 130.826 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 79621    | 22.724  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 68095    | 23.516  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 99293    | 21.752  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.66 | 112  | 299165   | 22.196  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 89694    | 22.288  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.74 | 91   | 517810   | 22.060  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 431248   | 45.592  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 197010   | 22.387  | ug/l   | 98       |
| 70) Styrene                    | 12.19 | 104  | 326328   | 22.725  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 49843    | 22.842  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 534347   | 21.565  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 111824   | 23.720  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 87367    | 23.462  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 114547   | 42.467  | ug/l # | 100      |
| 77) Bromobenzene               | 12.76 | 156  | 126632   | 21.693  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.81 | 91   | 667945   | 22.445  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 376159   | 22.042  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 469925   | 22.272  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 26409    | 22.962  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 399932   | 22.296  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 392553   | 21.273  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 475844   | 22.443  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 585724   | 22.086  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 522594   | 22.260  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 265516   | 21.662  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 269576   | 22.392  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 487746   | 22.100  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.10 | 117  | 77679    | 20.652  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 240755   | 22.347  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 14698    | 23.735  | ug/l   | 97       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091218\  
Data File : VW005321.D  
Acq On : 12 Sep 2018 13:24  
Operator : SY/AP  
Sample : VW0912SBSD01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

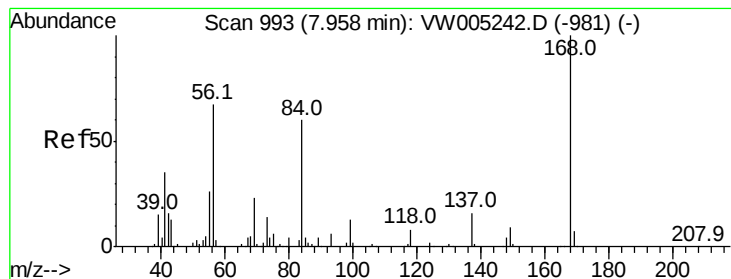
Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Sep 12 14:30:39 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 03:48:23 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 165859   | 21.764 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 104736   | 21.462 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 276112   | 22.346 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 144857   | 22.090 | ug/l  | 98       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

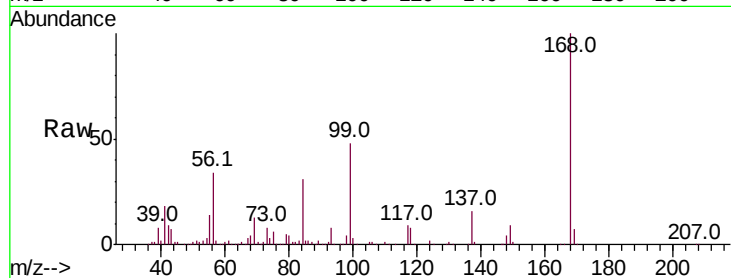
ClientSampled :

Tot Ion:168 Resp: 437842

Ion Ratio Lower Upper

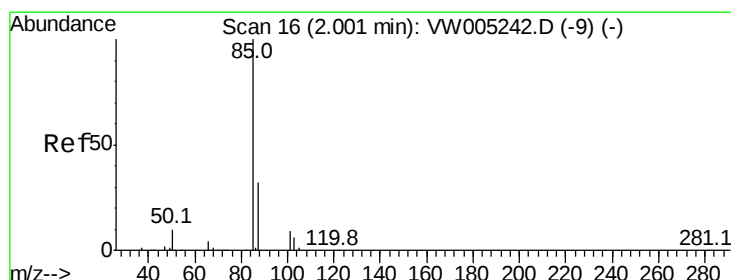
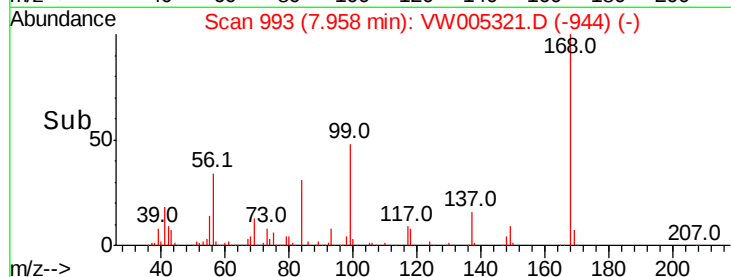
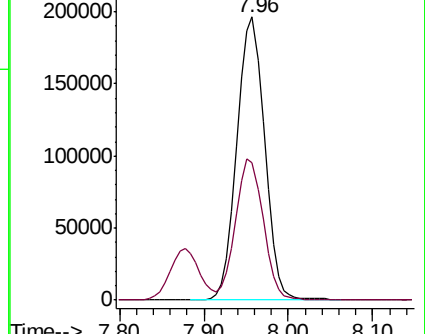
168 100

99 48.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 24.770 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW005321.D

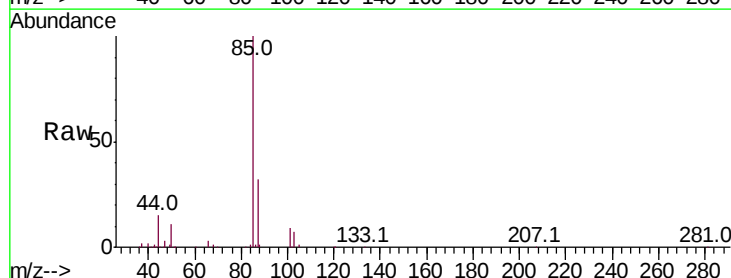
Acq: 12 Sep 2018 13:24

Tgt Ion: 85 Resp: 93556

Ion Ratio Lower Upper

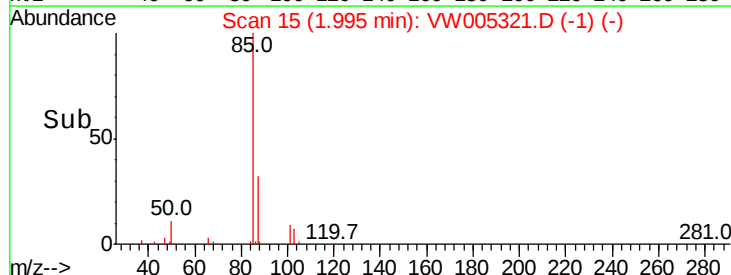
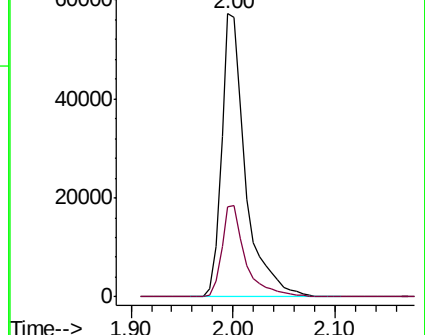
85 100

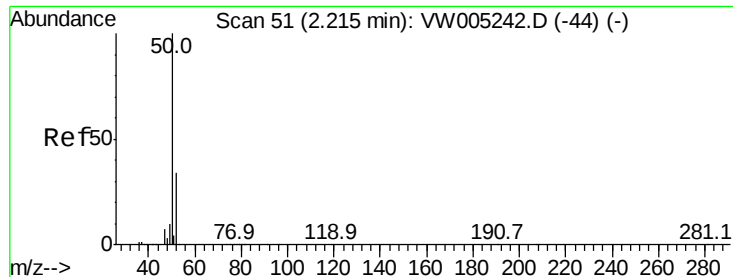
87 31.7 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 25.012 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

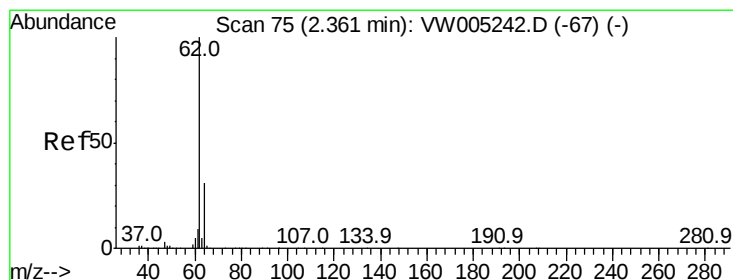
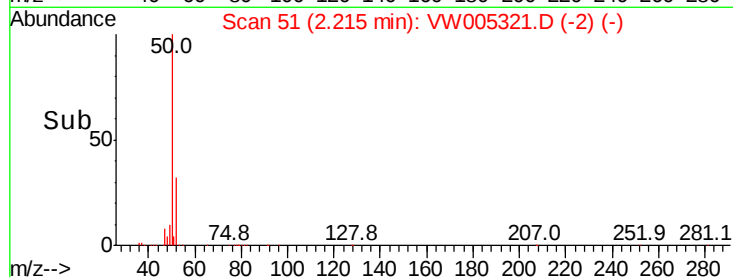
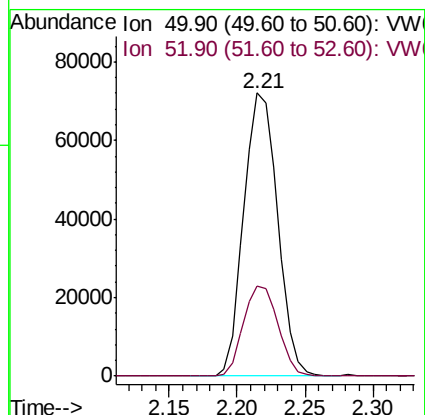
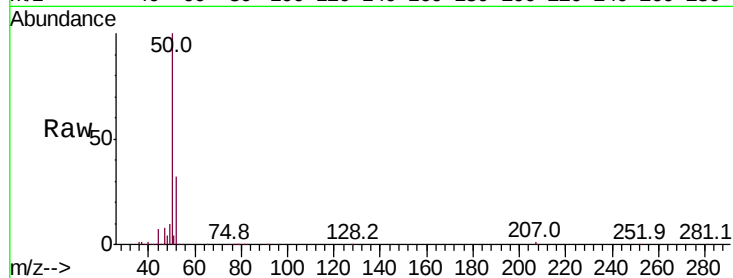
ClientSampleId :

Tot Ion: 50 Resp: 126299

Ion Ratio Lower Upper

50 100

52 32.0 27.0 40.4



#4

Vinyl Chloride

Concen: 24.602 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW005321.D

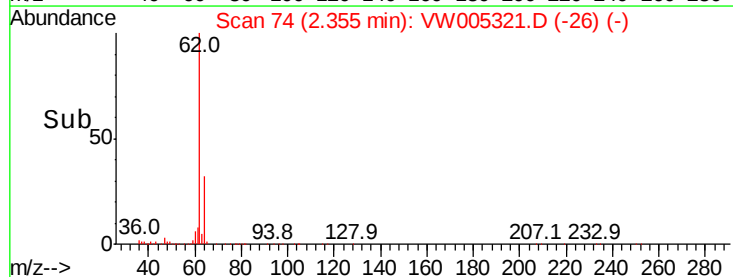
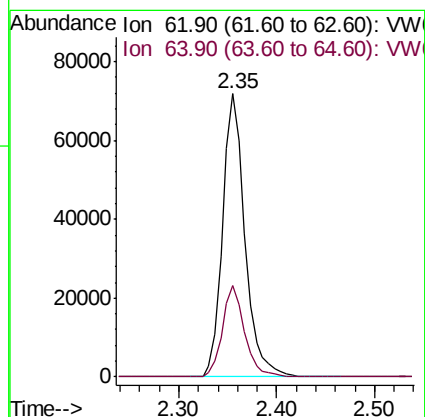
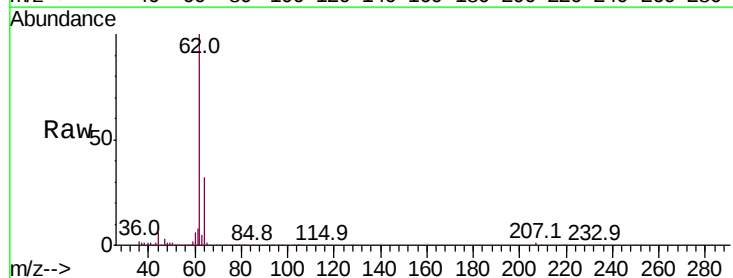
Acq: 12 Sep 2018 13:24

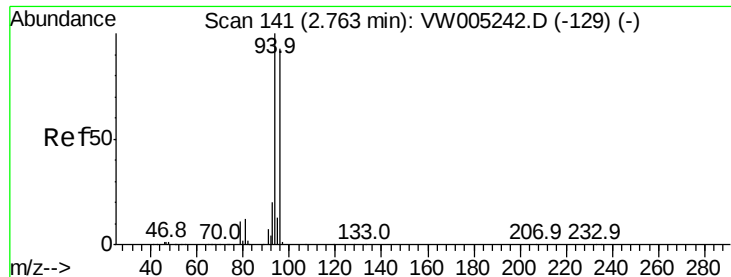
Tgt Ion: 62 Resp: 114047

Ion Ratio Lower Upper

62 100

64 32.4 24.6 37.0





#5

Bromomethane

Concen: 24.911 ug/l

RT: 2.74 min Scan# 137

Delta R.T. -0.02 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

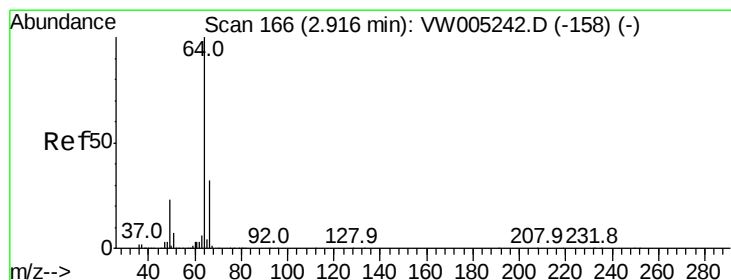
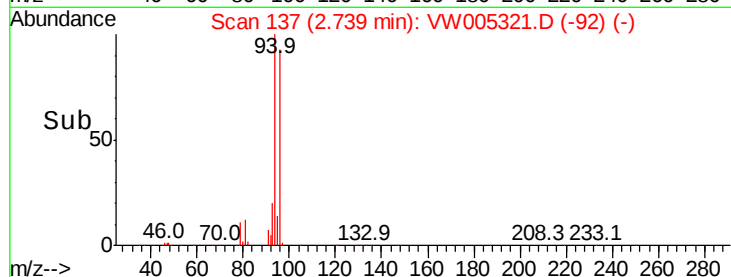
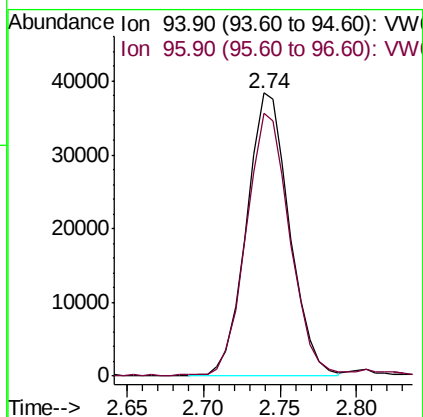
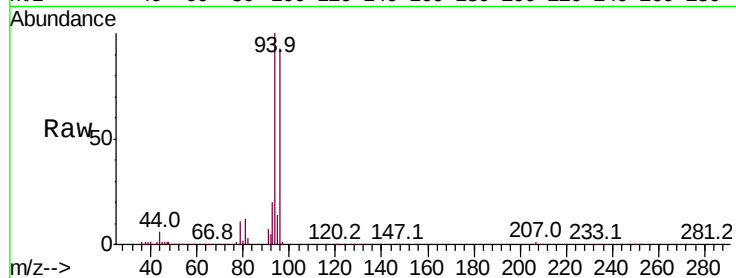
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 94 Resp: 74258

Ion Ratio Lower Upper

94 100

96 92.8 74.1 111.1



#6

Chloroethane

Concen: 24.249 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW005321.D

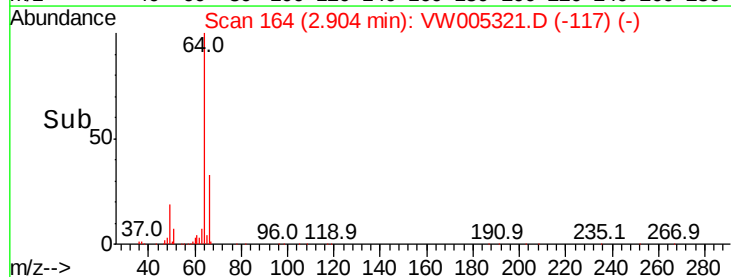
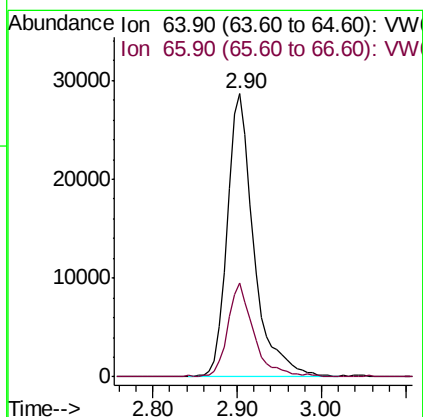
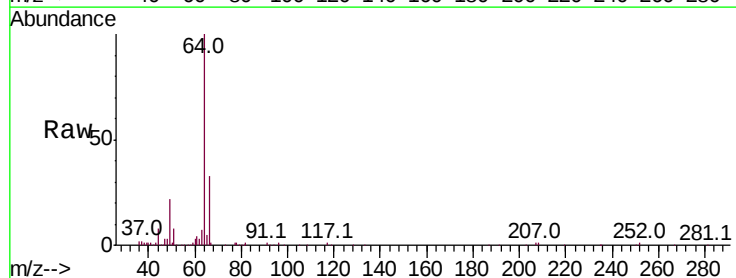
Acq: 12 Sep 2018 13:24

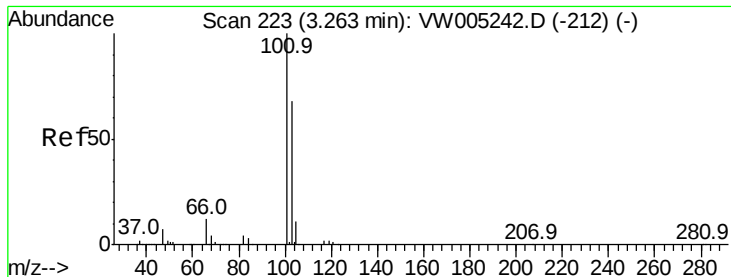
Tgt Ion: 64 Resp: 61920

Ion Ratio Lower Upper

64 100

66 33.3 25.3 37.9



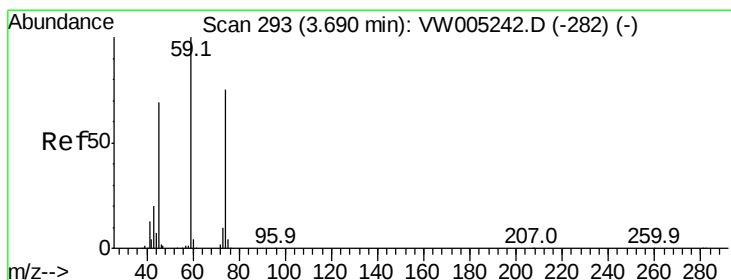
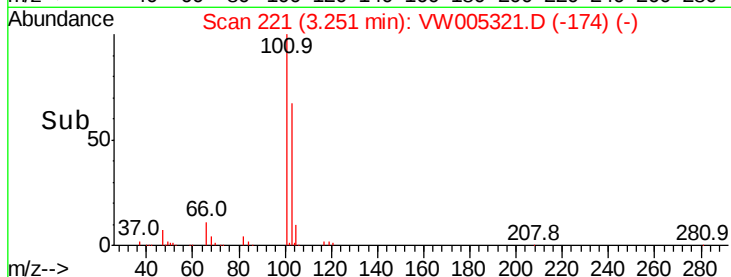
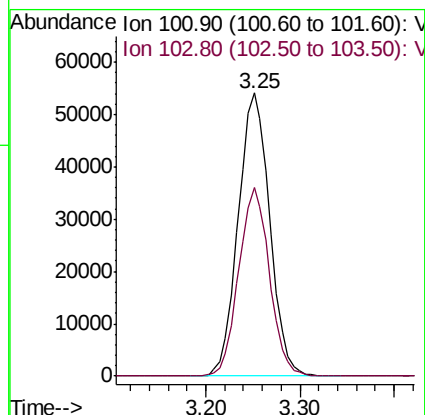
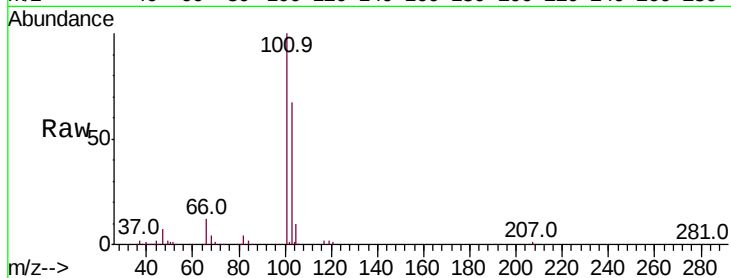


#7

Trichlorofluoromethane  
Concen: 24.135 ug/l  
RT: 3.25 min Scan# 221  
Delta R.T. -0.01 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Instrument :  
MSVOA\_W  
ClientSampleId :

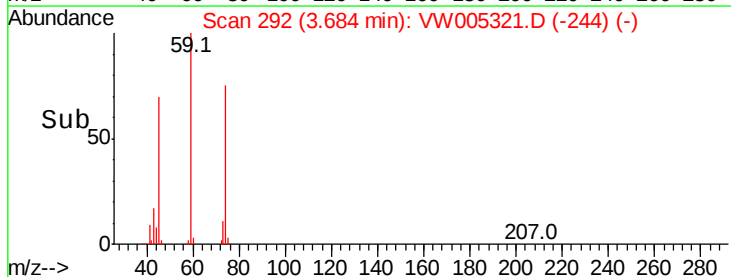
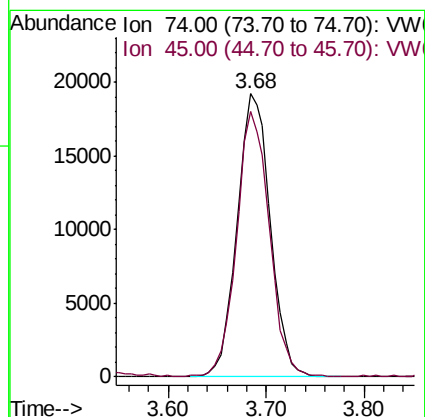
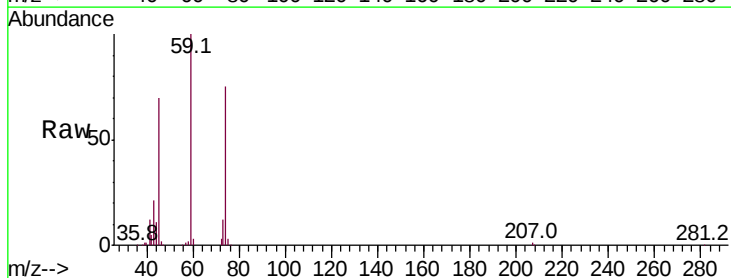
Tot Ion:101 Resp: 126567  
Ion Ratio Lower Upper  
101 100  
103 66.6 54.1 81.1

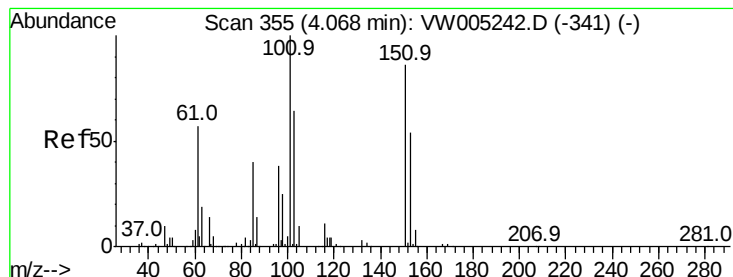


#8

Diethyl Ether  
Concen: 24.204 ug/l  
RT: 3.68 min Scan# 292  
Delta R.T. -0.01 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion: 74 Resp: 45234  
Ion Ratio Lower Upper  
74 100  
45 92.8 45.1 135.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.185 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

ClientSampleId :

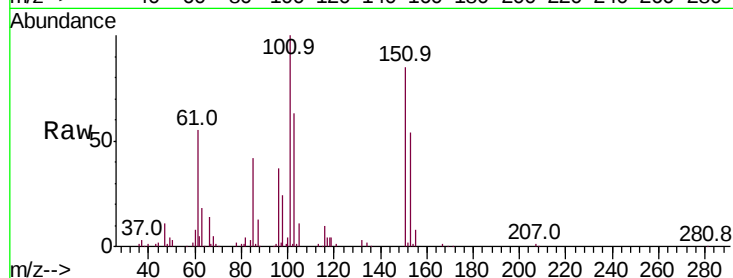
Tot Ion:101 Resp: 86843

Ion Ratio Lower Upper

101 100

85 42.3 32.7 49.1

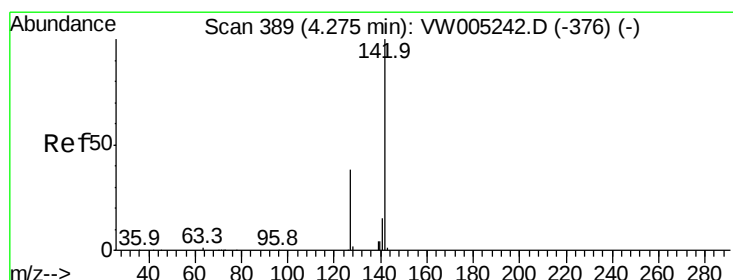
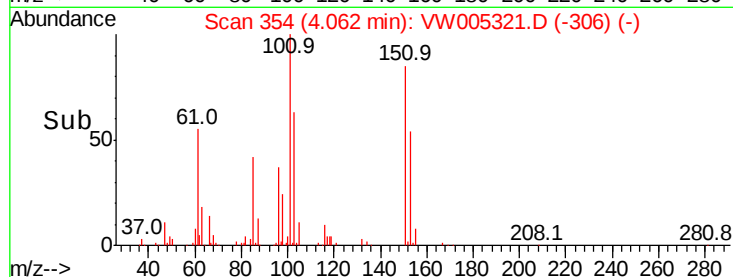
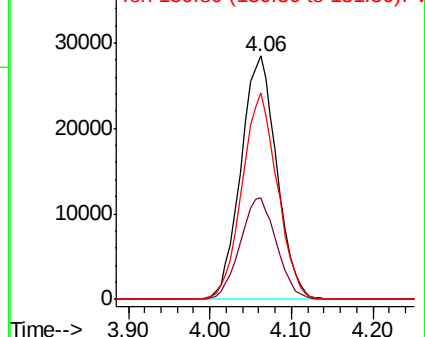
151 83.5 67.6 101.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 18.670 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

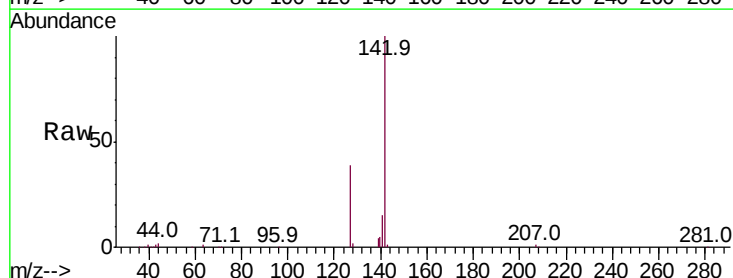
Tgt Ion:142 Resp: 76525

Ion Ratio Lower Upper

142 100

127 38.9 30.3 45.5

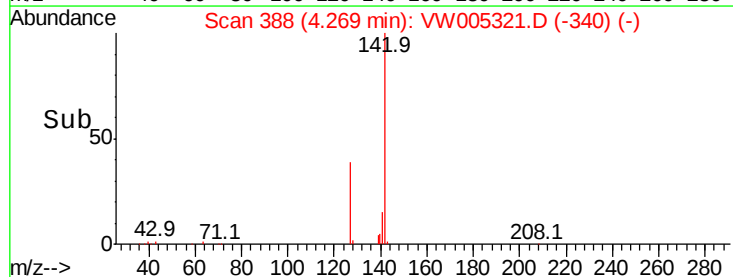
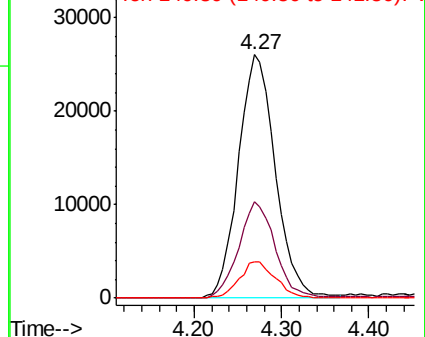
141 14.7 11.4 17.0

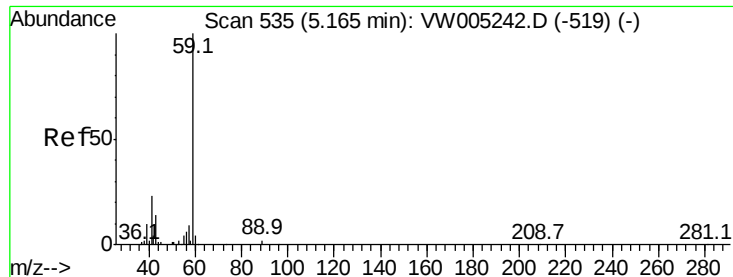


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



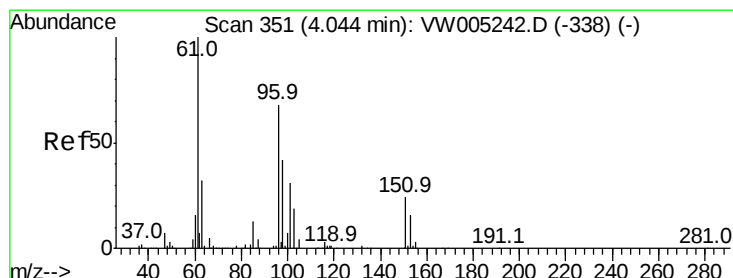
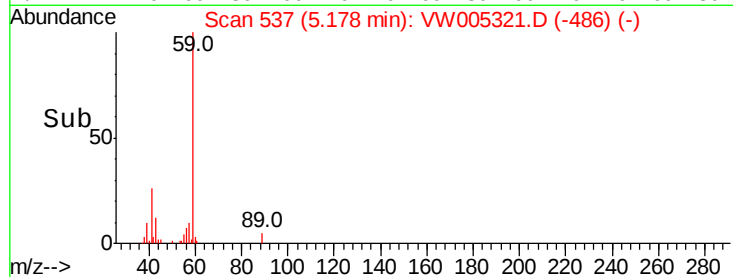
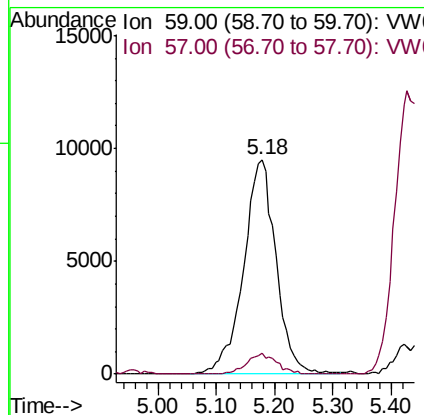
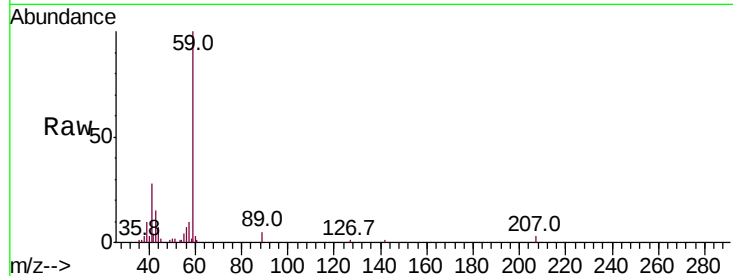


#11

Tert butyl alcohol  
 Concen: 137.193 ug/l  
 RT: 5.18 min Scan# 537  
 Delta R.T. 0.01 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

Instrument :  
 MSVOA\_W  
 ClientSampled :

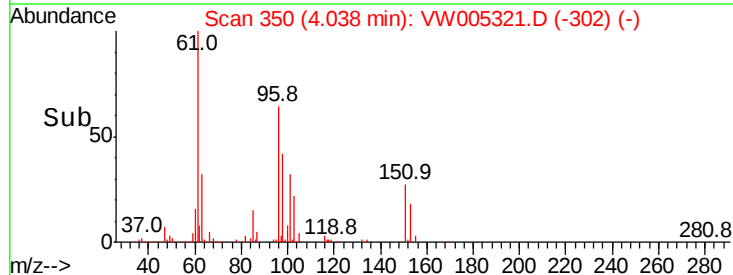
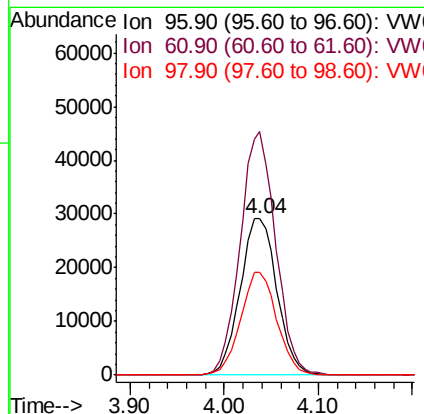
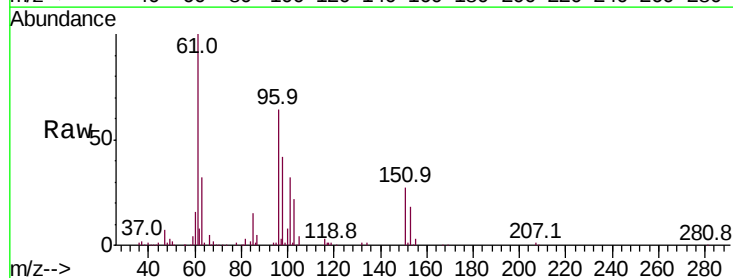
Tot Ion: 59 Resp: 36742  
 Ion Ratio Lower Upper  
 59 100  
 57 8.8 8.1 12.1

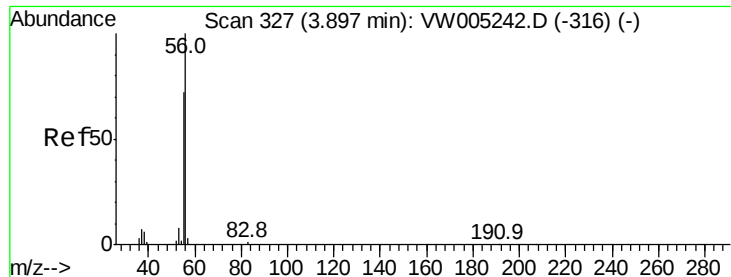


#12

1,1-Dichloroethene  
 Concen: 23.183 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. -0.01 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

Tgt Ion: 96 Resp: 79955  
 Ion Ratio Lower Upper  
 96 100  
 61 155.6 118.2 177.2  
 98 66.1 49.9 74.9

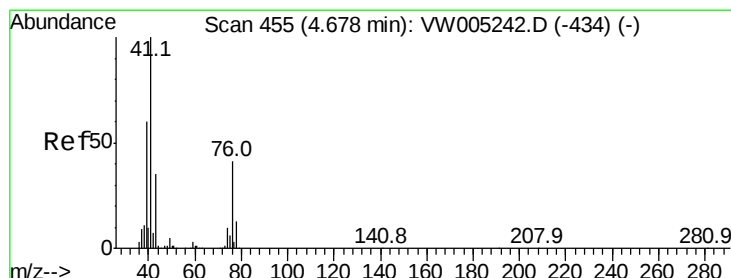
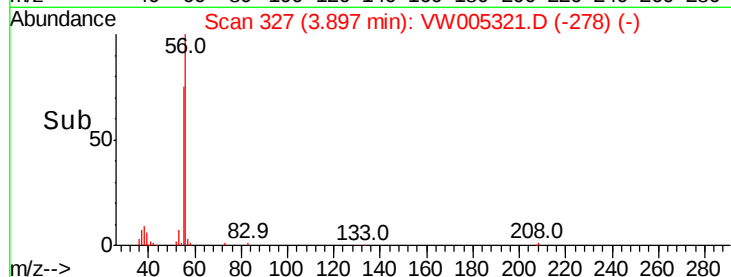
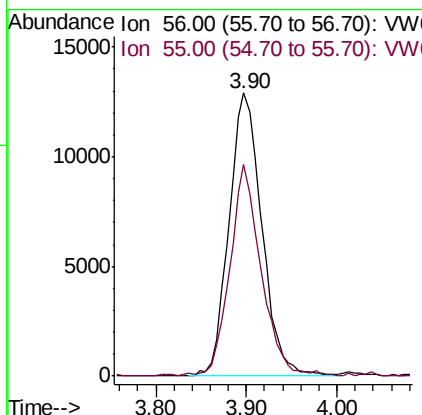
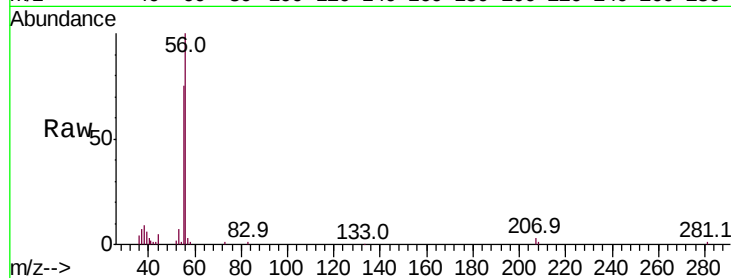




#13  
Acrolein  
Concen: 125.672 ug/l  
RT: 3.90 min Scan# 327  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

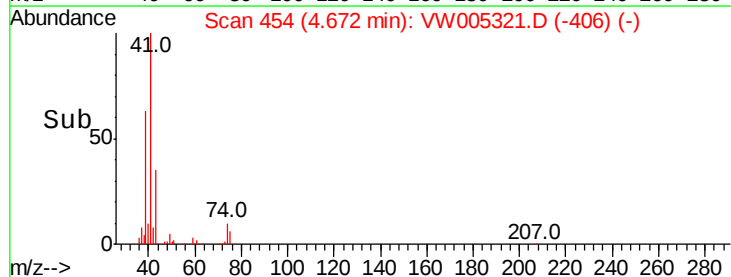
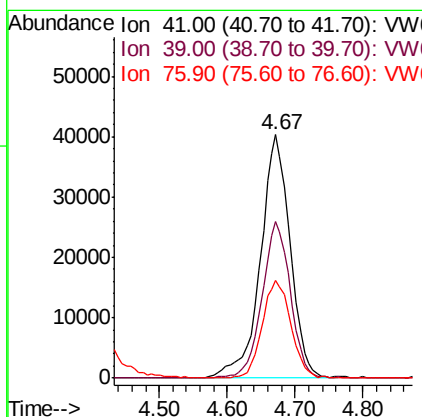
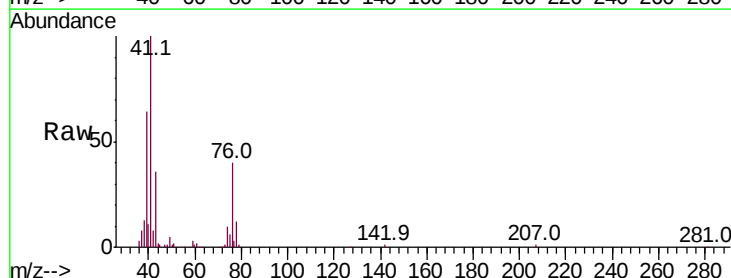
Instrument :  
MSVOA\_W  
ClientSampled :

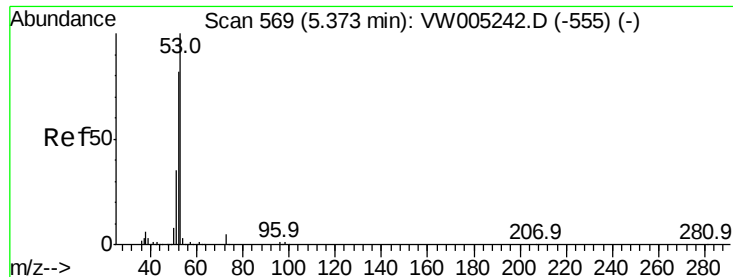
Tot Ion: 56 Resp: 32511  
Ion Ratio Lower Upper  
56 100  
55 71.1 56.8 85.2



#14  
Allyl chloride  
Concen: 23.215 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. -0.01 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion: 41 Resp: 123026  
Ion Ratio Lower Upper  
41 100  
39 61.3 48.2 72.4  
76 38.6 31.7 47.5





#15

Acrylonitrile

Concen: 130.002 ug/l

RT: 5.37 min Scan# 569

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

ClientSampleId :

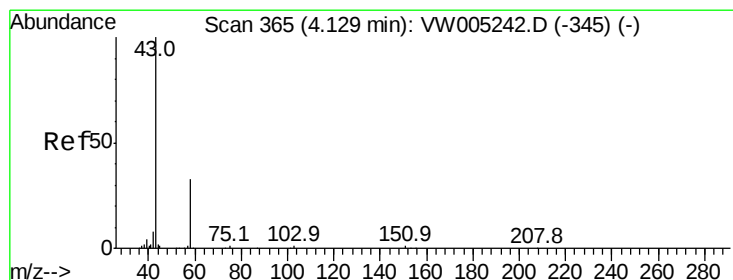
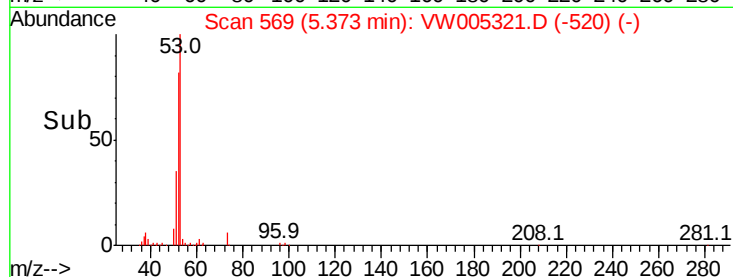
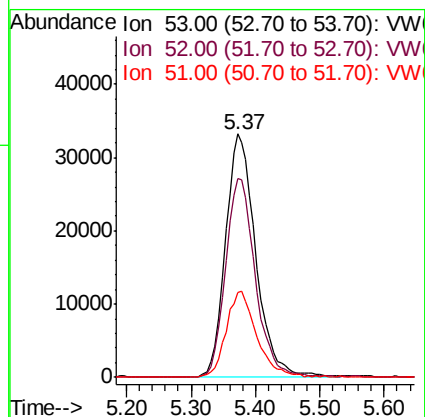
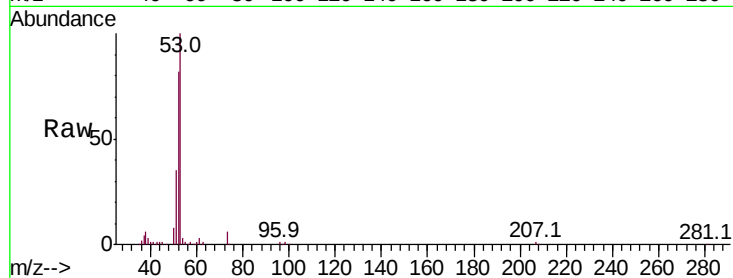
Tot Ion: 53 Resp: 109614

Ion Ratio Lower Upper

53 100

52 80.5 66.0 99.0

51 35.6 28.6 43.0



#16

Acetone

Concen: 142.801 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW005321.D

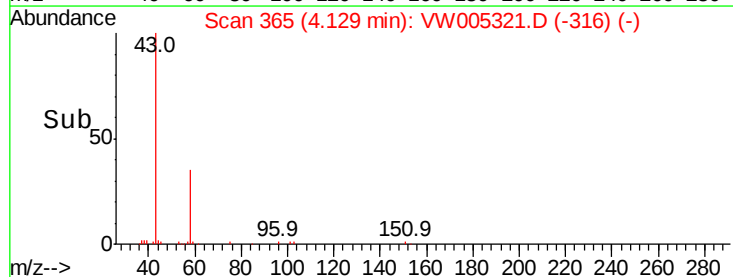
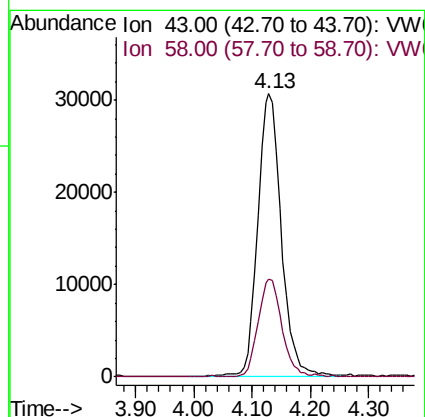
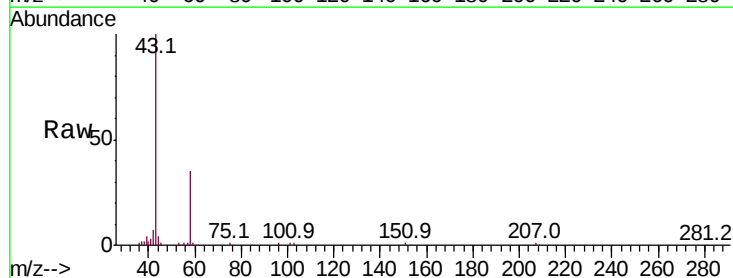
Acq: 12 Sep 2018 13:24

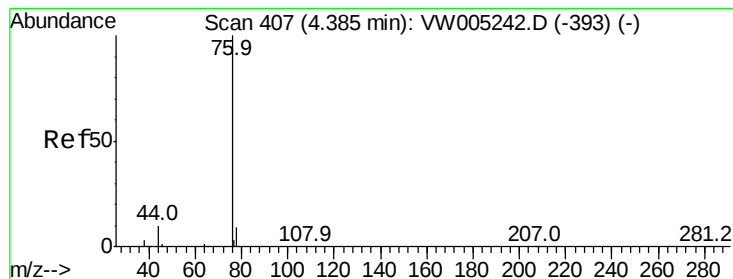
Tgt Ion: 43 Resp: 86561

Ion Ratio Lower Upper

43 100

58 34.6 26.7 40.1





#17

Carbon Disulfide

Concen: 24.170 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

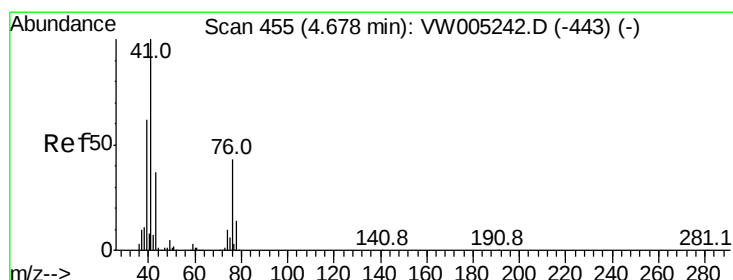
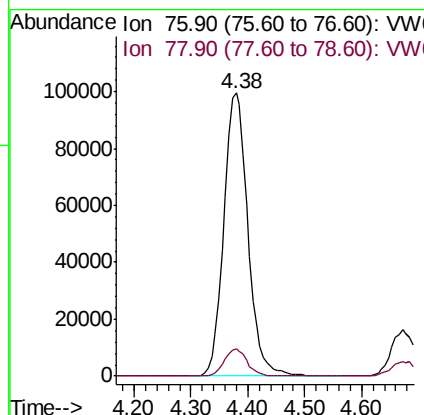
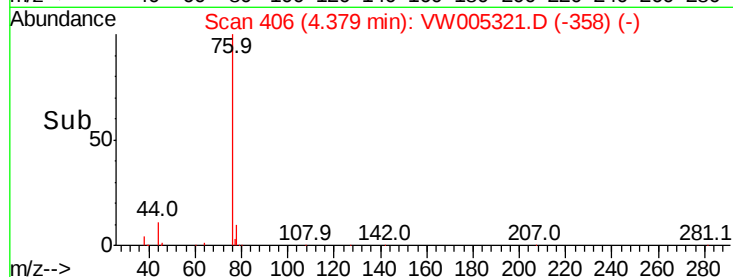
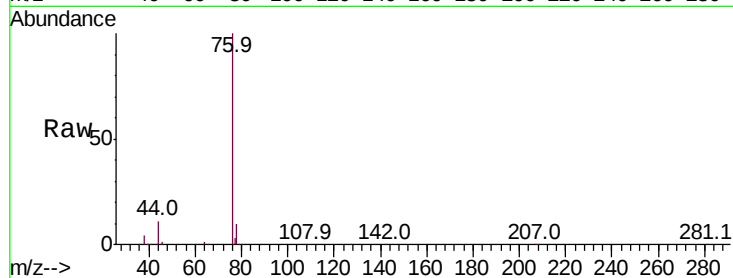
ClientSampled :

Tot Ion: 76 Resp: 292605

Ion Ratio Lower Upper

76 100

78 9.8 7.5 11.3



#18

Methyl Acetate

Concen: 25.700 ug/l

RT: 4.68 min Scan# 455

Delta R.T. -0.00 min

Lab File: VW005321.D

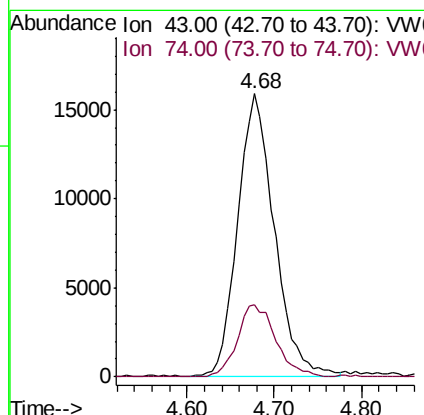
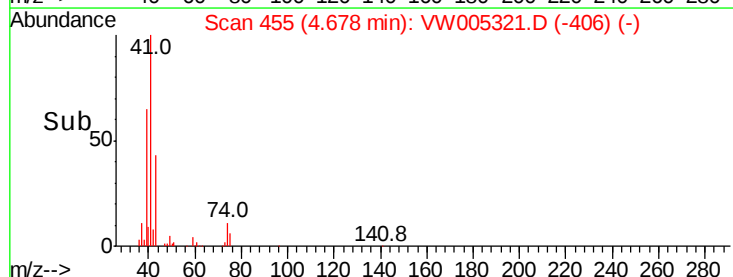
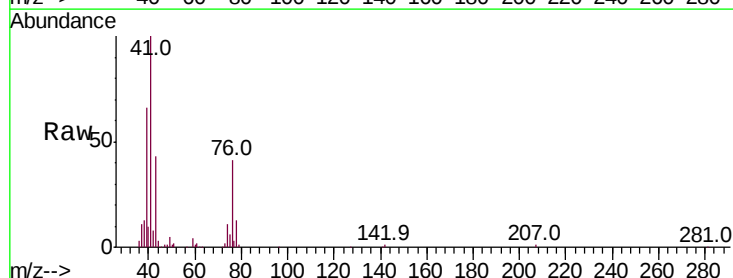
Acq: 12 Sep 2018 13:24

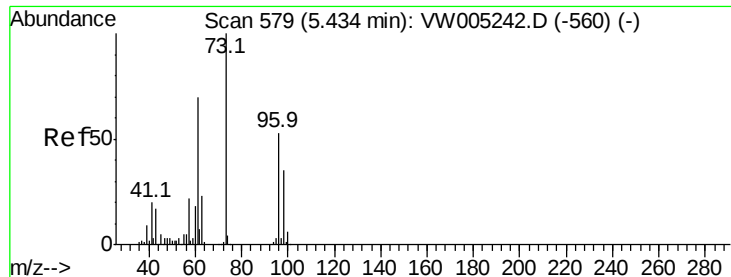
Tgt Ion: 43 Resp: 46504

Ion Ratio Lower Upper

43 100

74 26.3 21.4 32.2

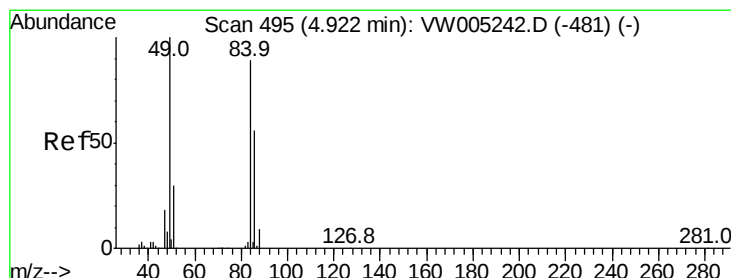
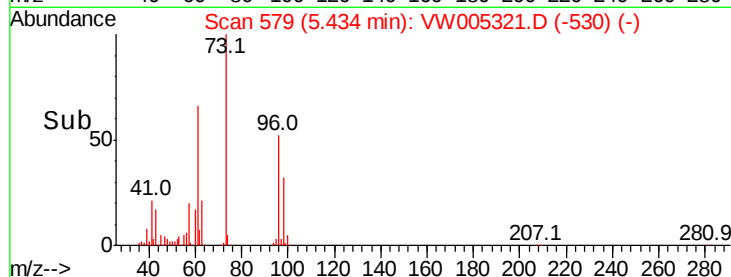
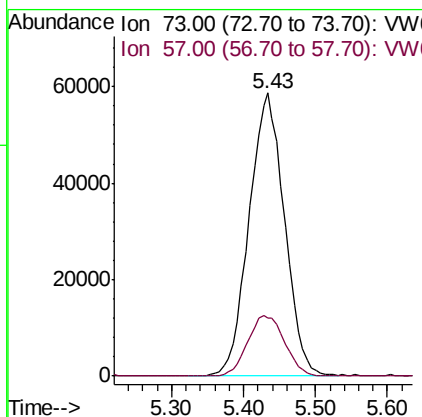
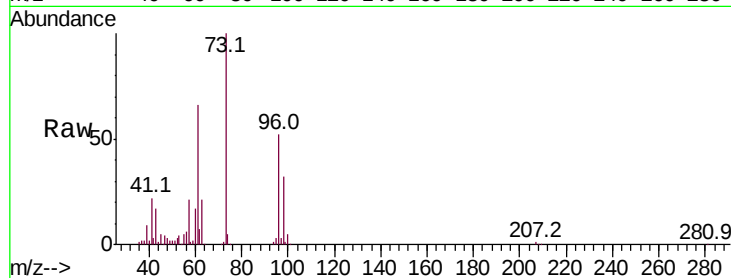




#19  
Methvl tert-butvl Ether  
Concen: 24.369 ug/l  
RT: 5.43 min Scan# 579  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

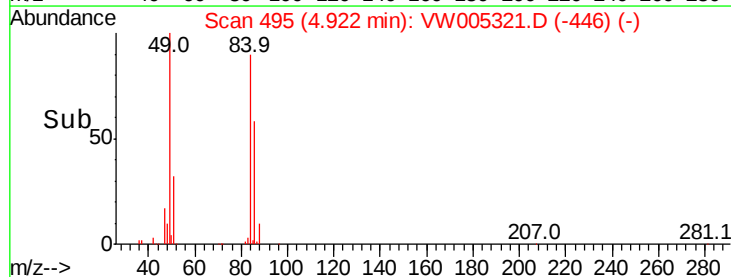
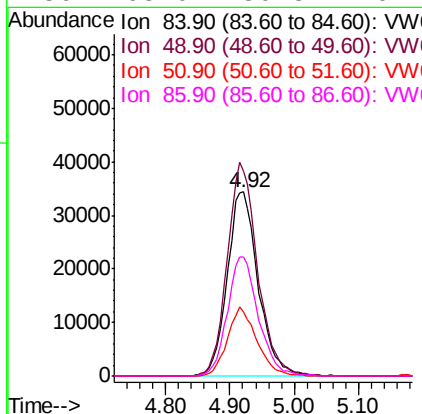
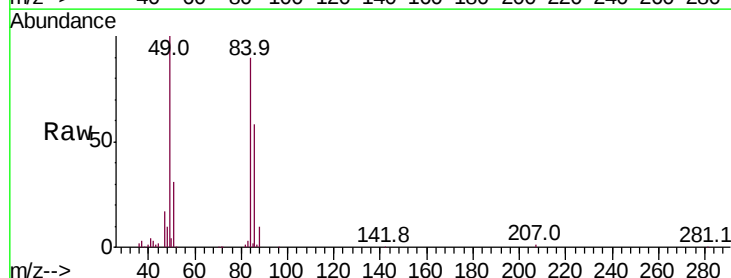
Instrument :  
MSVOA\_W  
ClientSampleId :

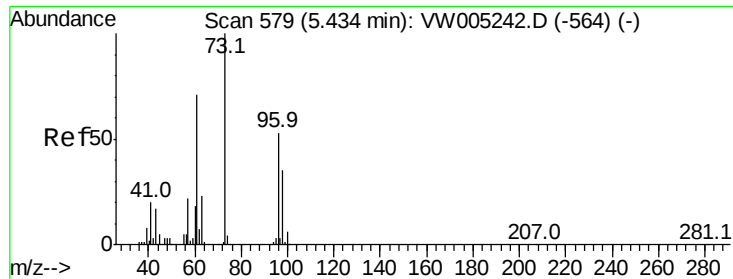
Tot Ion: 73 Resp: 200180  
Ion Ratio Lower Upper  
73 100  
57 20.6 17.4 26.2



#20  
Methylene Chloride  
Concen: 23.907 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion: 84 Resp: 115438  
Ion Ratio Lower Upper  
84 100  
49 111.7 90.3 135.5  
51 35.1 26.9 40.3  
86 65.0 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 23.088 ug/l

RT: 5.43 min Scan# 578

Delta R.T. -0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :  
MSVOA\_W  
ClientSampled :

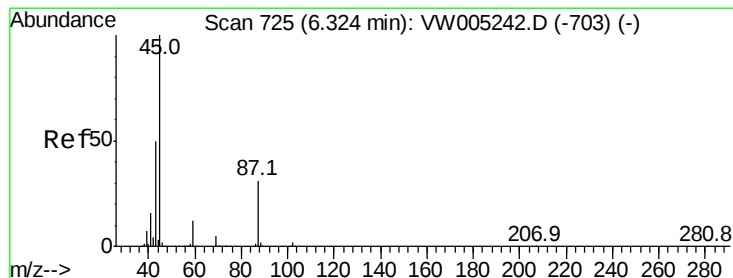
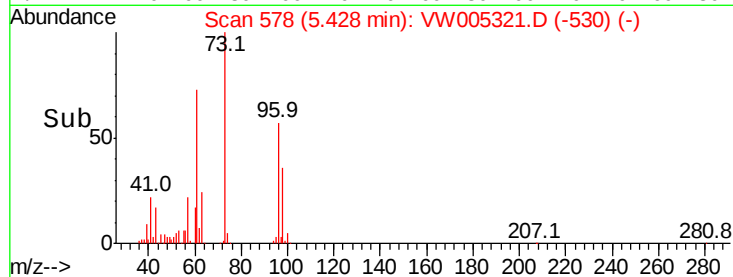
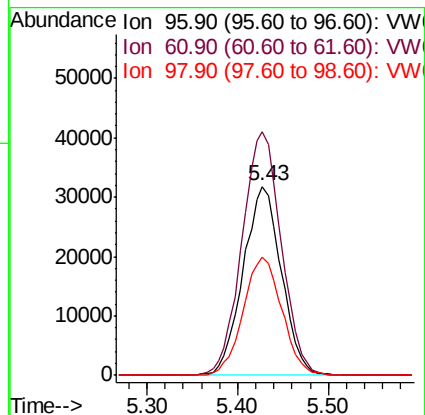
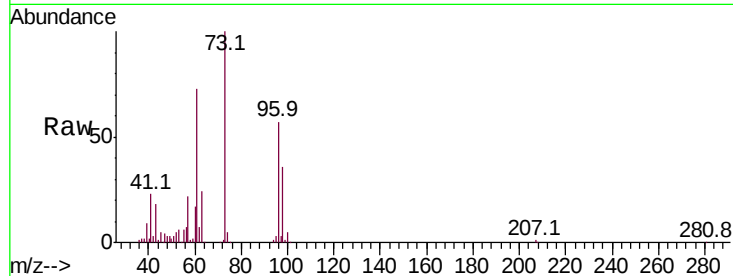
Tot Ion: 96 Resp: 92974

Ion Ratio Lower Upper

96 100

61 128.7 105.7 158.5

98 62.8 52.8 79.2



#22

Diisopropyl ether

Concen: 24.719 ug/l

RT: 6.32 min Scan# 724

Delta R.T. -0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Tgt Ion: 45 Resp: 263730

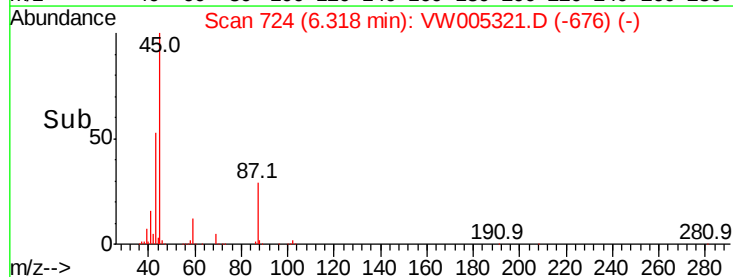
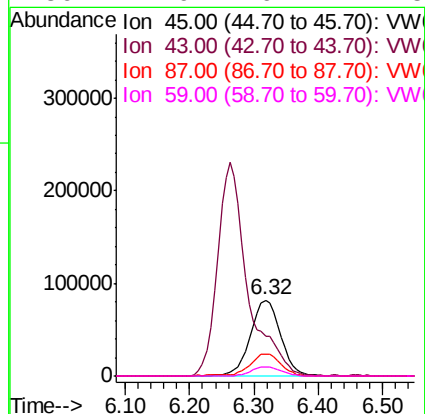
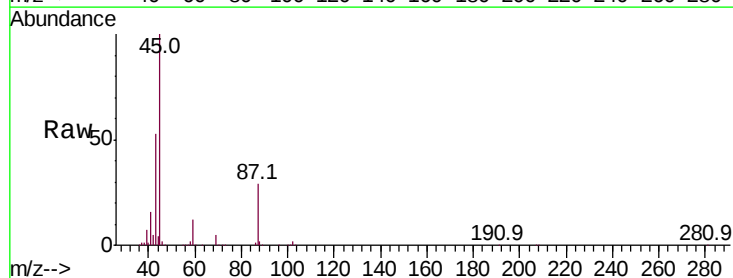
Ion Ratio Lower Upper

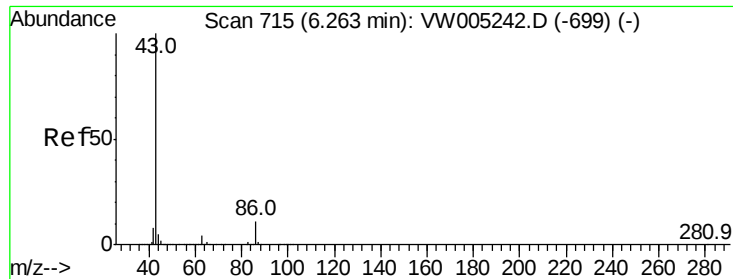
45 100

43 51.8 39.6 59.4

87 28.6 24.7 37.1

59 11.9 9.7 14.5





#23

Vinyl Acetate

Concen: 127.264 ug/l

RT: 6.26 min Scan# 715

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

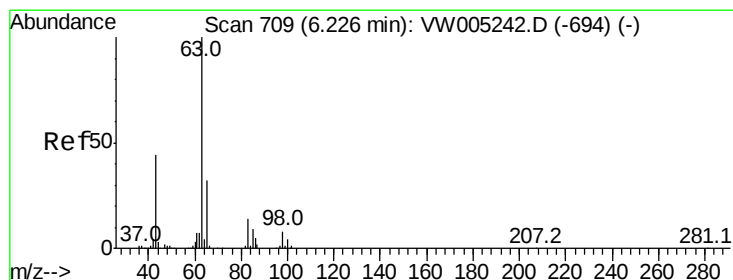
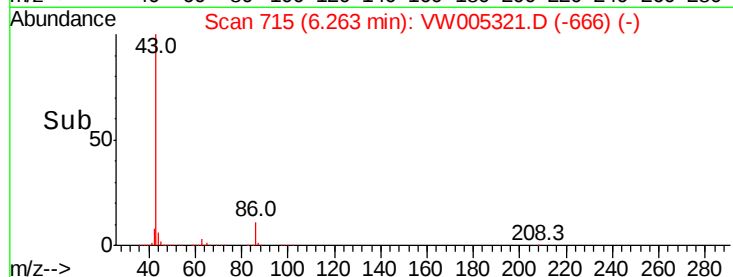
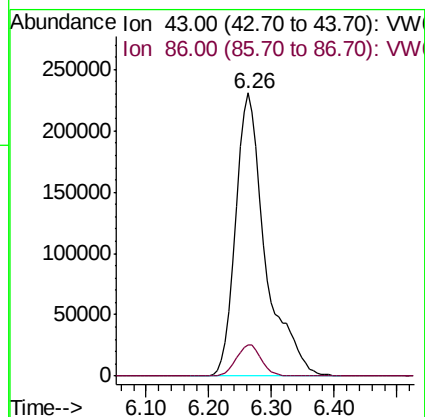
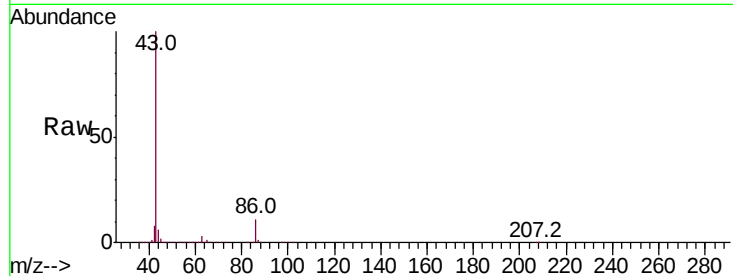
ClientSampleId :

Tot Ion: 43 Resp: 756672

Ion Ratio Lower Upper

43 100

86 11.0 8.9 13.3



#24

1,1-Dichloroethane

Concen: 23.603 ug/l

RT: 6.22 min Scan# 708

Delta R.T. -0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

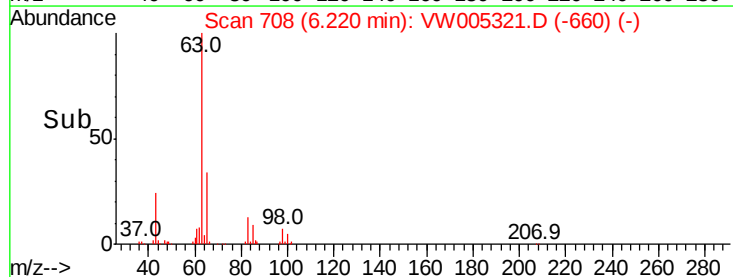
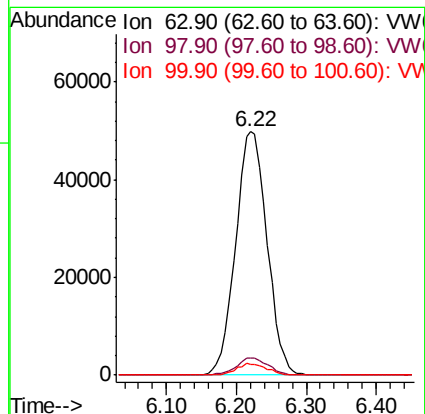
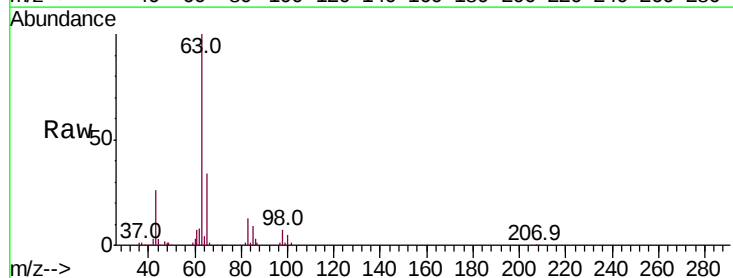
Tgt Ion: 63 Resp: 155008

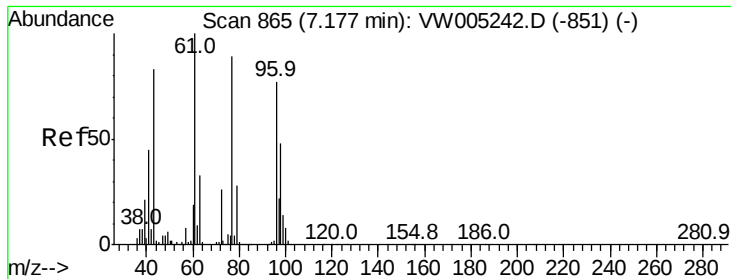
Ion Ratio Lower Upper

63 100

98 6.7 3.8 11.4

100 4.6 2.2 6.6





#25

2-Butanone

Concen: 140.003 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

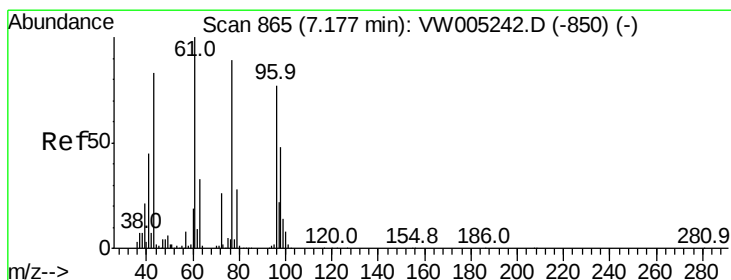
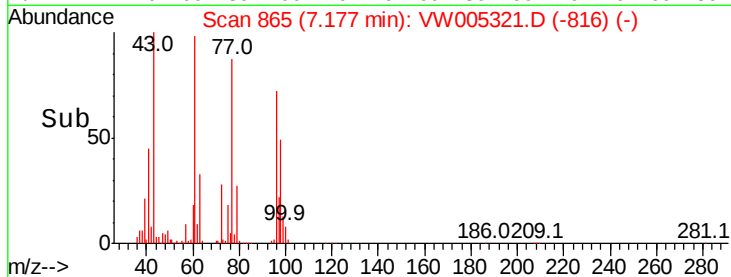
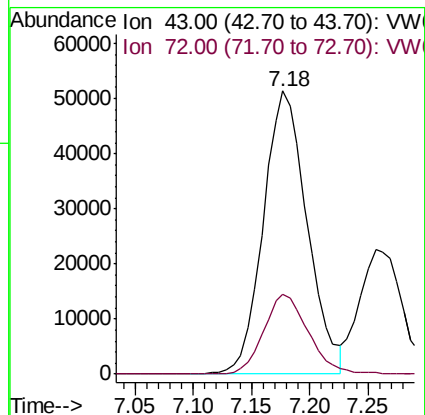
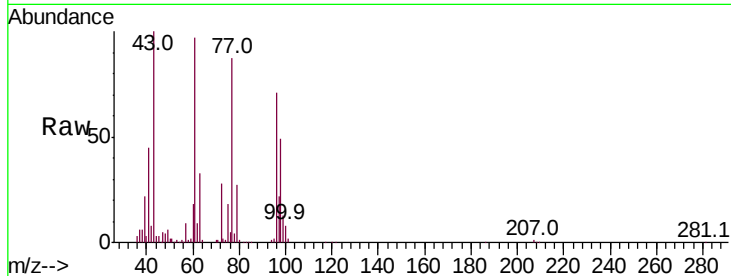
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 133862

Ion Ratio Lower Upper

43 100

72 28.1 25.0 37.6



#26

2,2-Dichloropropane

Concen: 23.280 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW005321.D

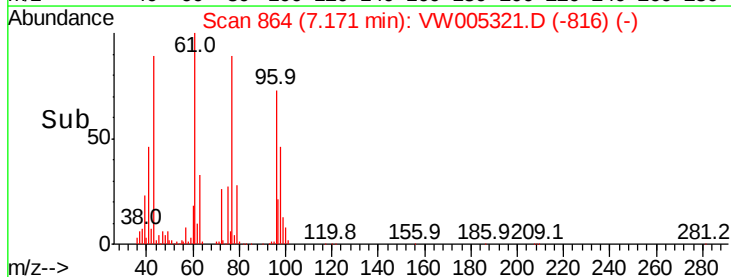
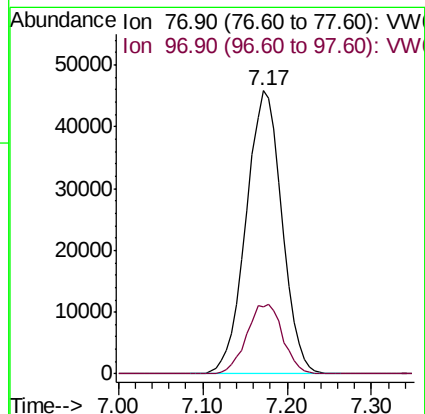
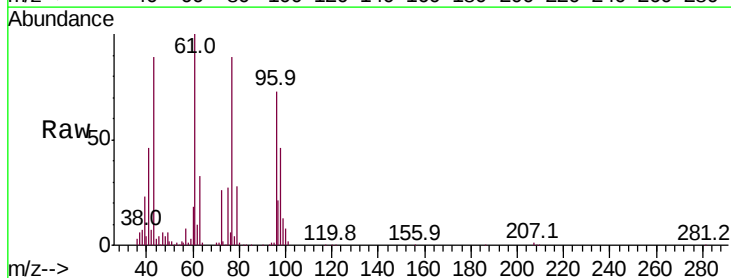
Acq: 12 Sep 2018 13:24

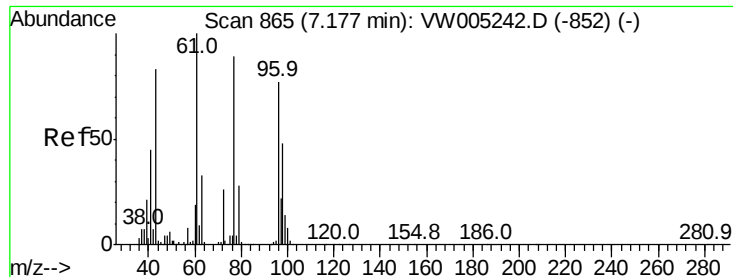
Tgt Ion: 77 Resp: 132555

Ion Ratio Lower Upper

77 100

97 24.6 12.2 36.6



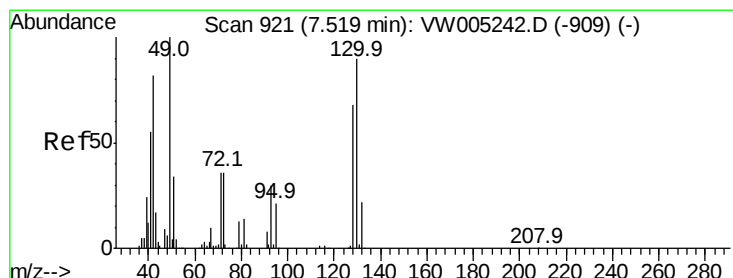
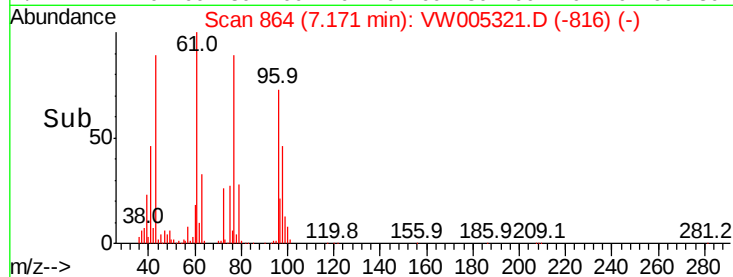
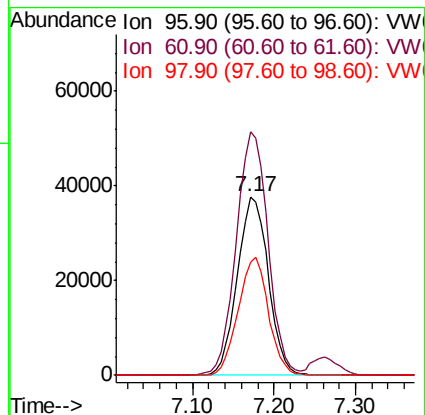
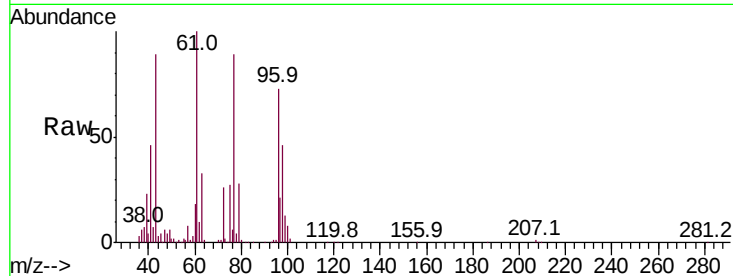


#27

cis-1,2-Dichloroethene  
 Concen: 23.112 ug/l  
 RT: 7.17 min Scan# 864  
 Delta R.T. -0.01 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

Instrument :  
 MSVOA\_W  
 ClientSampleId :

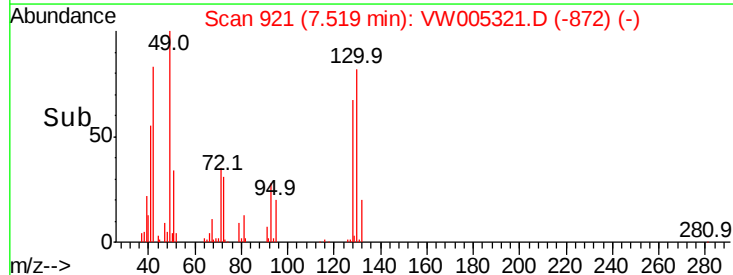
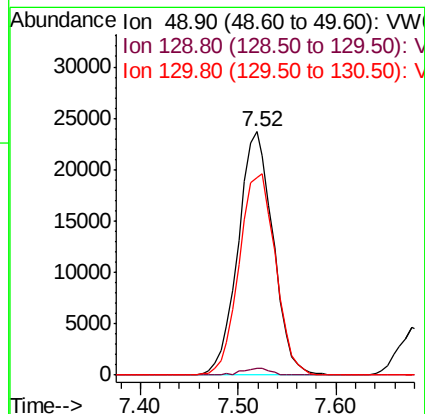
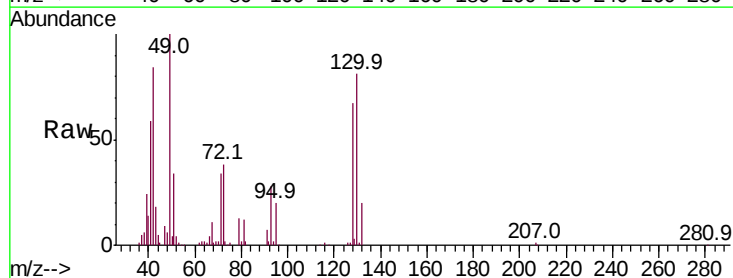
| Tot Ion | 96    | Resp  | 99606 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 139.0 | 0.0   | 273.4 |
| 98      | 64.2  | 0.0   | 127.8 |

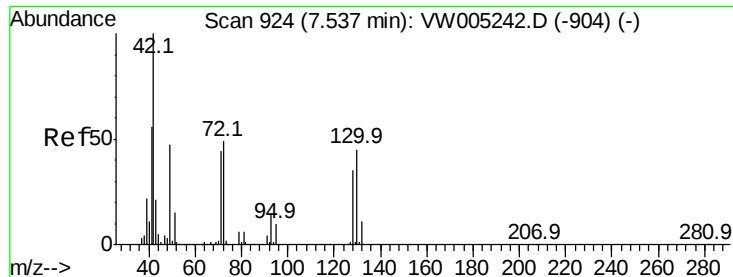


#28

Bromochloromethane  
 Concen: 24.262 ug/l  
 RT: 7.52 min Scan# 921  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

| Tgt Ion | 49    | Resp  | 58781 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 2.3   | 0.0   | 2.0#  |
| 130     | 86.0  | 71.2  | 106.8 |

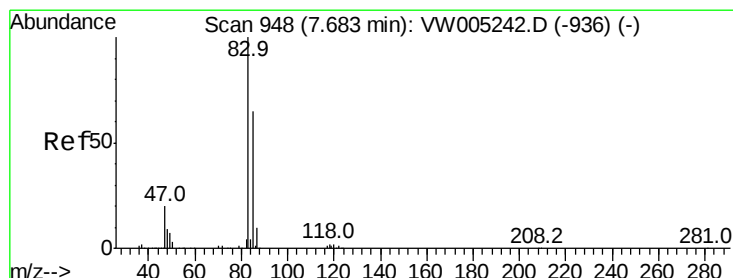
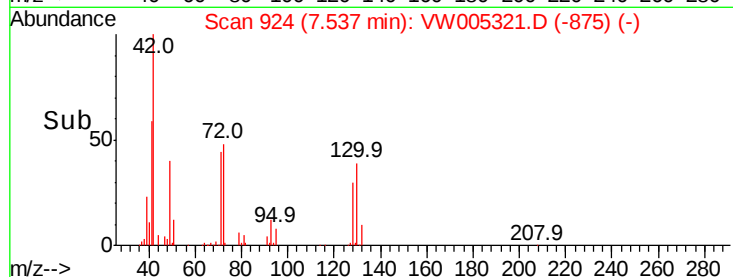
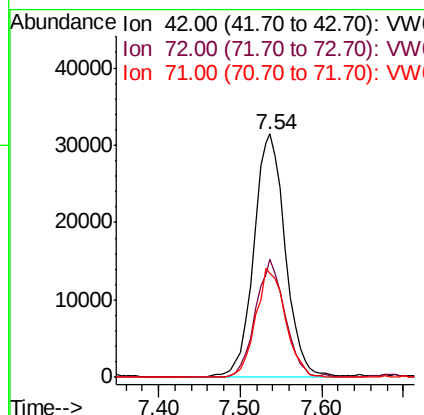
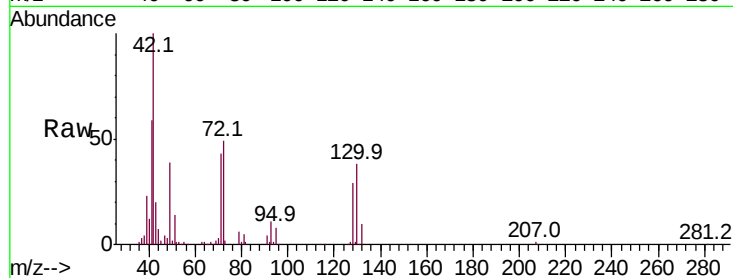




#29  
Tetrahydrofuran  
Concen: 131.631 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

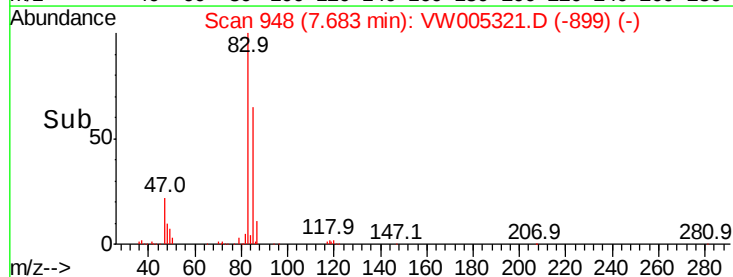
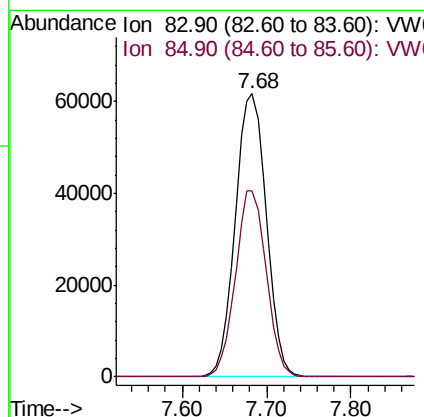
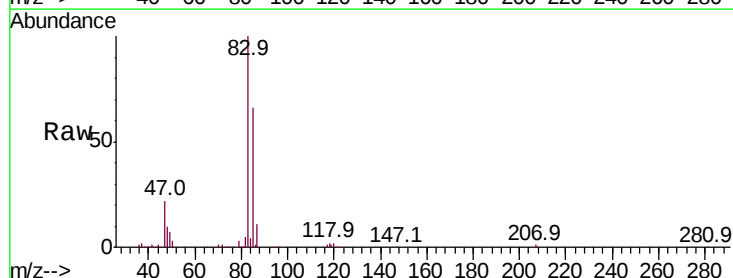
Instrument :  
MSVOA\_W  
ClientSampleId :

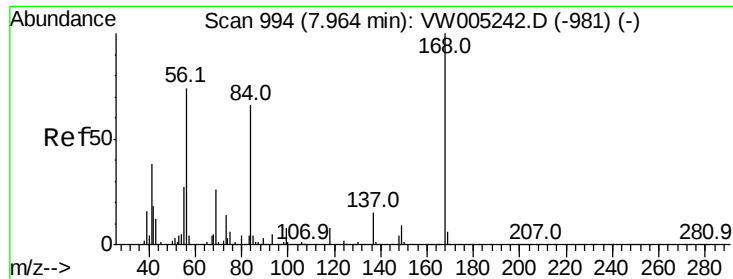
Tot Ion: 42 Resp: 84815  
Ion Ratio Lower Upper  
42 100  
72 45.6 37.5 56.3  
71 42.4 34.8 52.2



#30  
Chloroform  
Concen: 23.285 ug/l  
RT: 7.68 min Scan# 948  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion: 83 Resp: 153465  
Ion Ratio Lower Upper  
83 100  
85 65.6 51.7 77.5

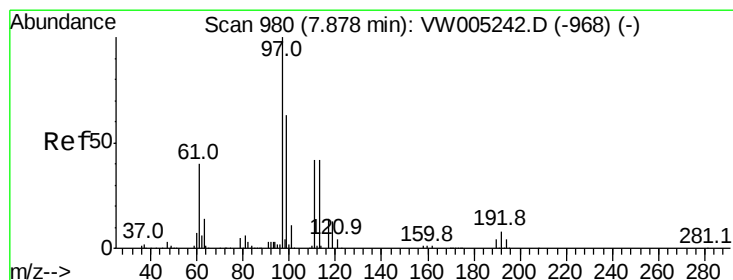
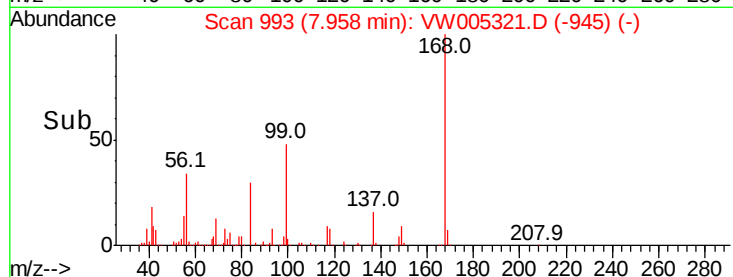
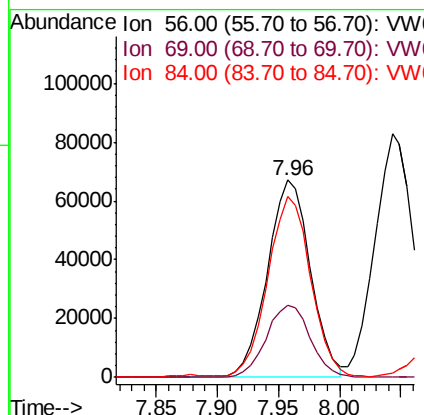
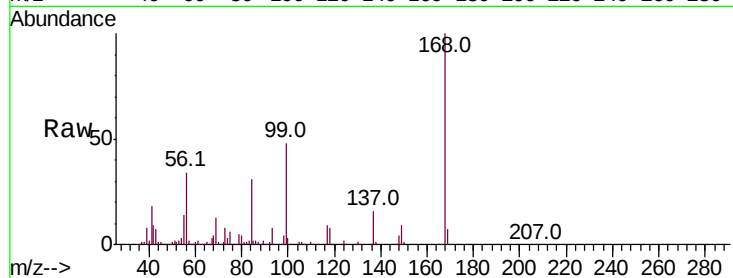




#31  
Cyclohexane  
Concen: 23.525 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.01 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

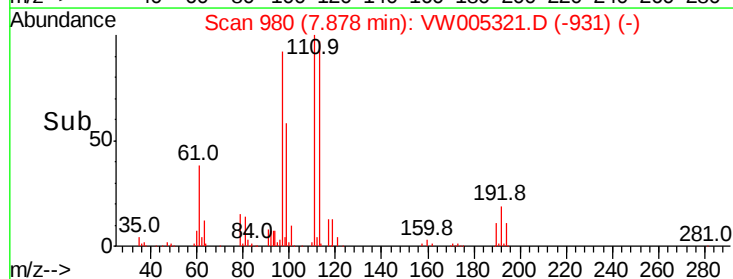
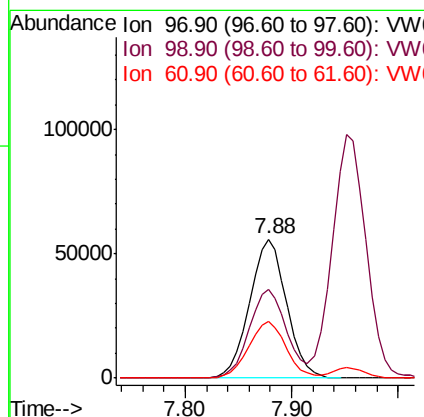
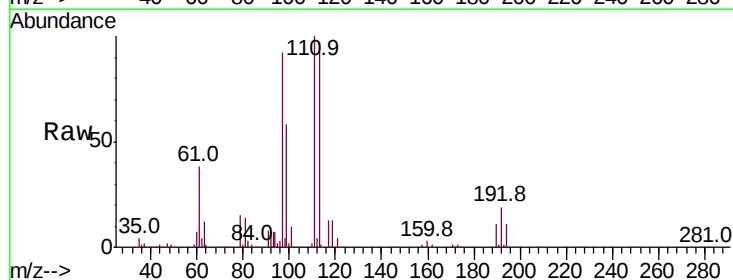
Instrument :  
MSVOA\_W  
ClientSampled :

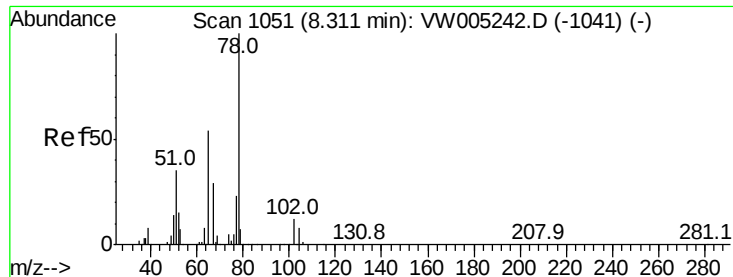
| Tot Ion   | 56    | Resp  | 164395 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 36.8  | 27.8  | 41.8   |
| 84        | 90.2  | 72.1  | 108.1  |



#32  
1,1,1-Trichloroethane  
Concen: 22.826 ug/l  
RT: 7.88 min Scan# 980  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

| Tgt Ion   | 97    | Resp  | 135909 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.6  | 51.5  | 77.3   |
| 61        | 41.0  | 32.5  | 48.7   |





#33

1,2-Dichloroethane-d4

Concen: 57.286 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

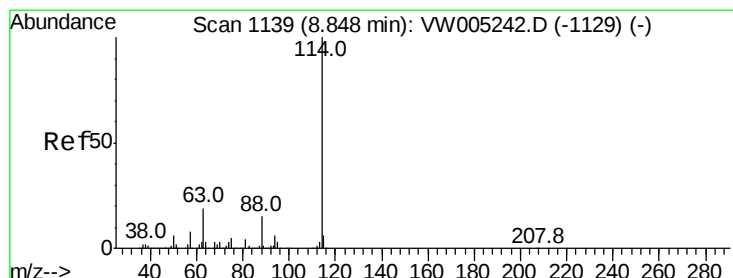
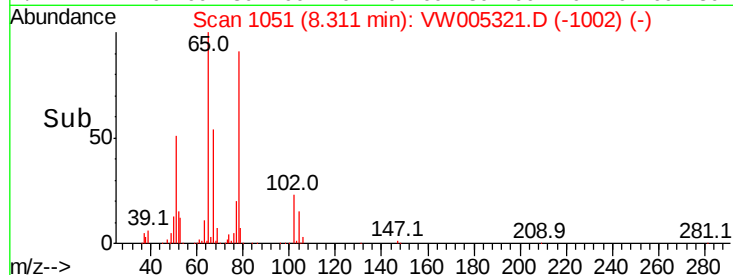
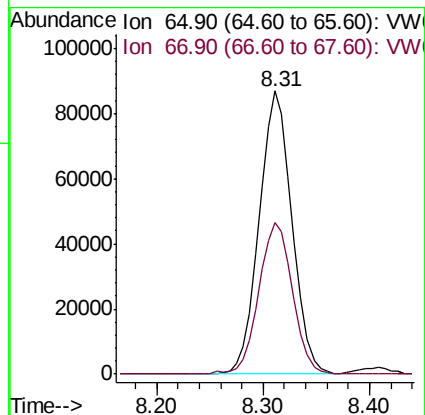
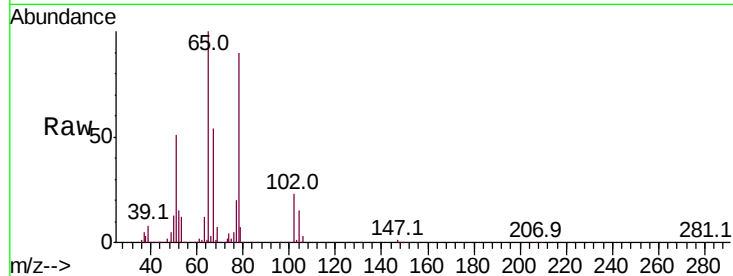
ClientSampleId :

Tot Ion: 65 Resp: 187078

Ion Ratio Lower Upper

65 100

67 55.3 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

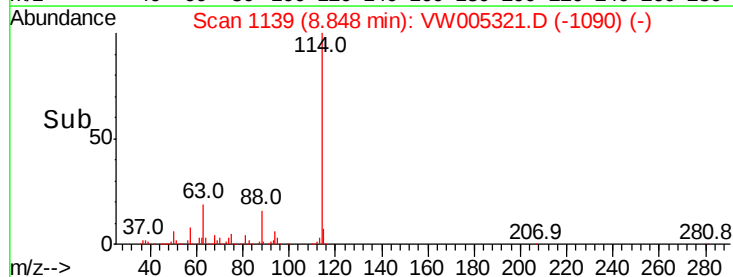
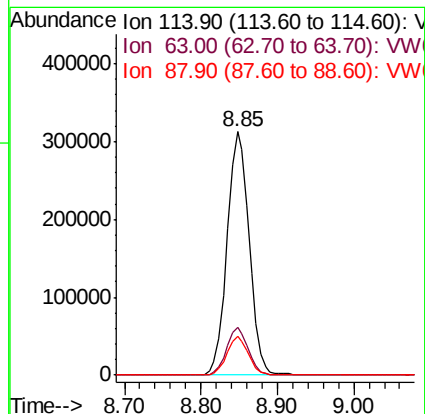
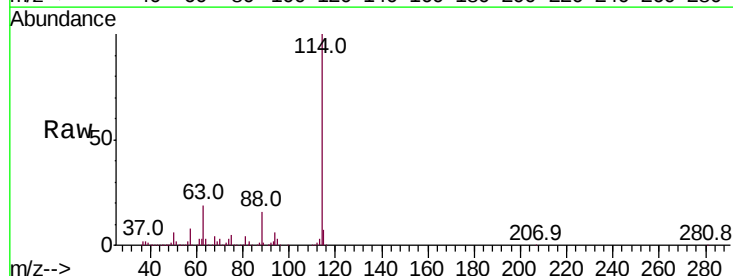
Tgt Ion: 114 Resp: 623624

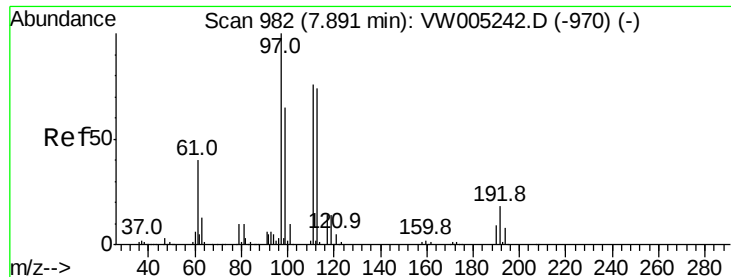
Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.0

88 16.0 0.0 30.4

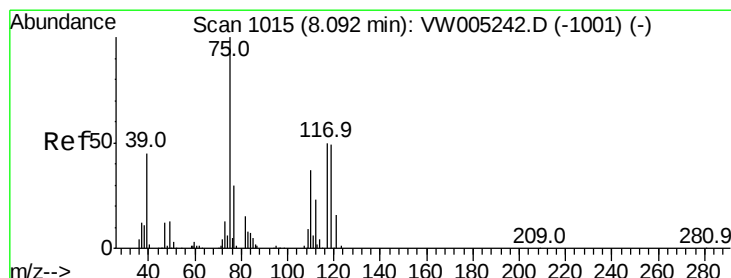
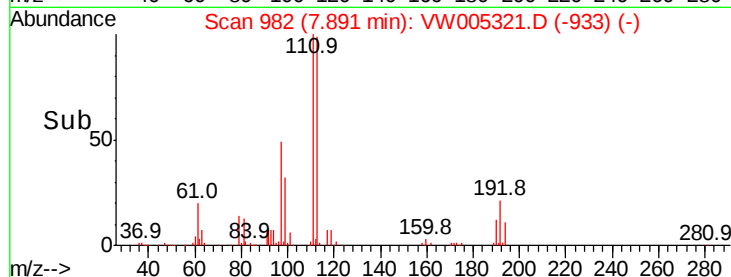
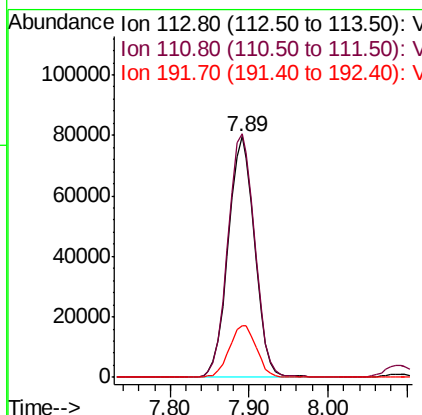
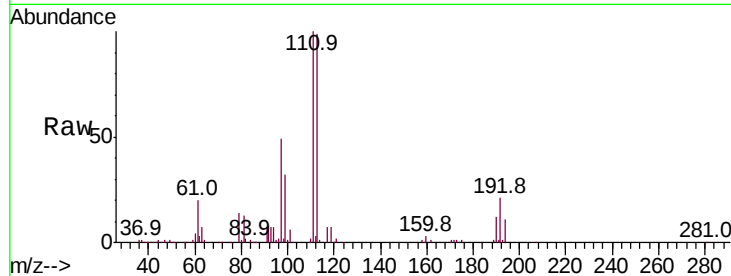




#35  
 Dibromofluoromethane  
 Concen: 56.781 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

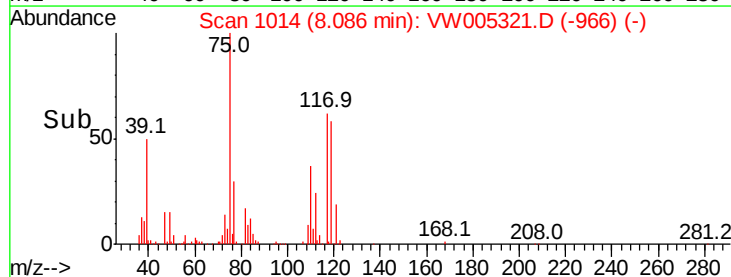
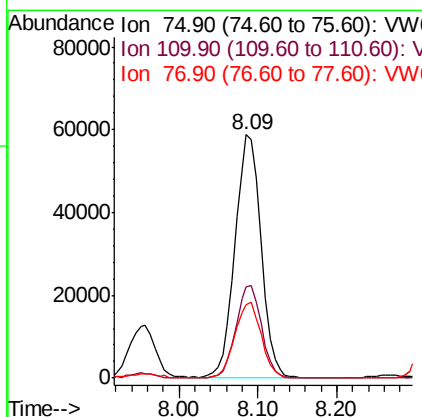
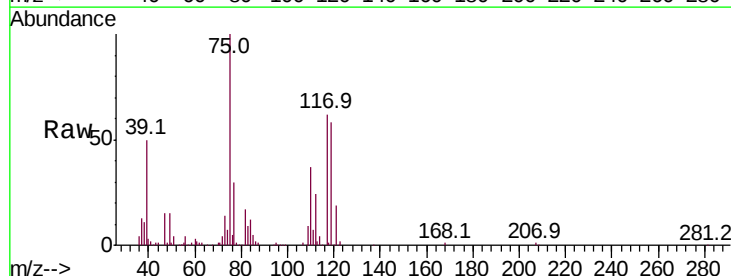
Instrument :  
 MSVOA\_W  
 ClientSampleId :

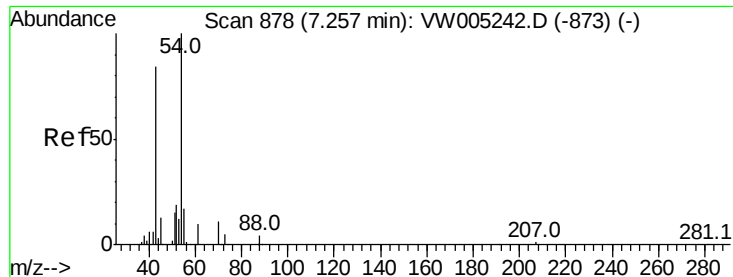
Tot Ion:113 Resp: 185491  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 80.6 121.0  
 192 22.1 18.3 27.5



#36  
 1,1-Dichloropropene  
 Concen: 23.778 ug/l  
 RT: 8.09 min Scan# 1014  
 Delta R.T. -0.01 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

Tgt Ion: 75 Resp: 135853  
 Ion Ratio Lower Upper  
 75 100  
 110 37.1 18.8 56.4  
 77 31.6 24.9 37.3

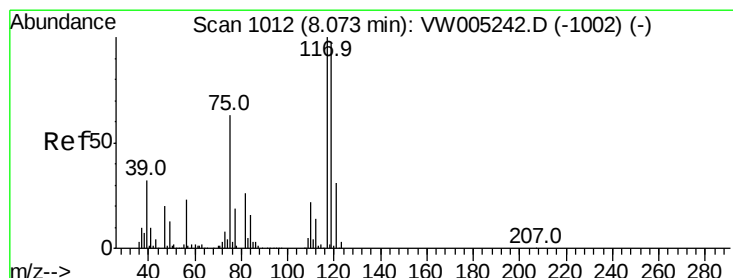
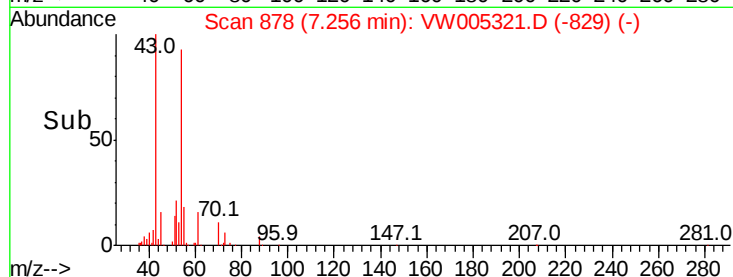
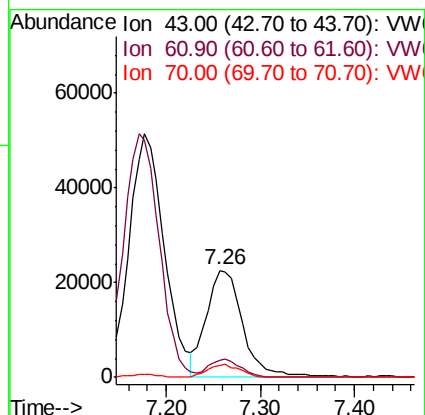
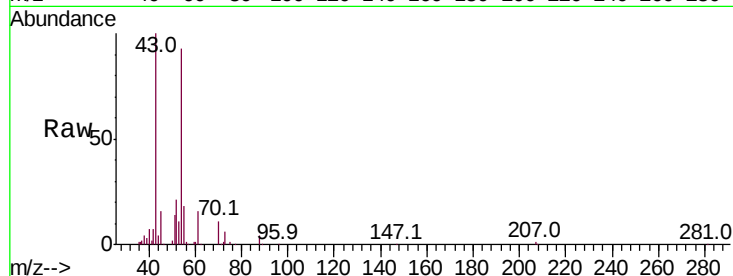




#37  
Ethyl Acetate  
Concen: 27.271 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

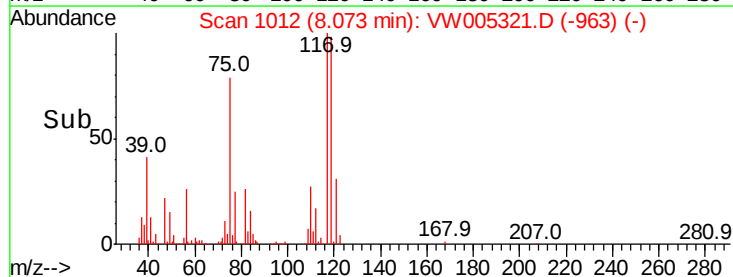
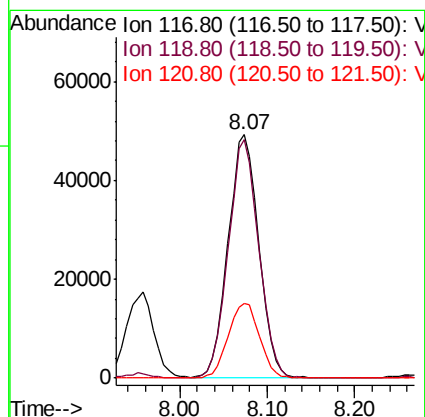
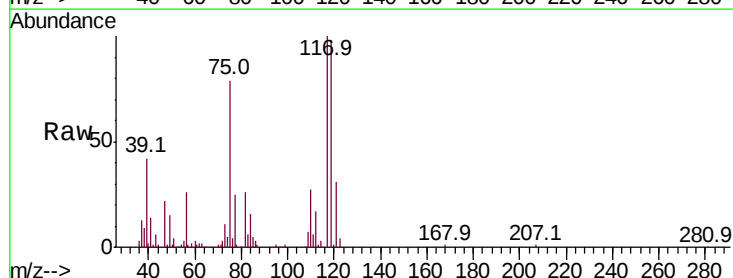
Instrument :  
MSVOA\_W  
ClientSampleId :

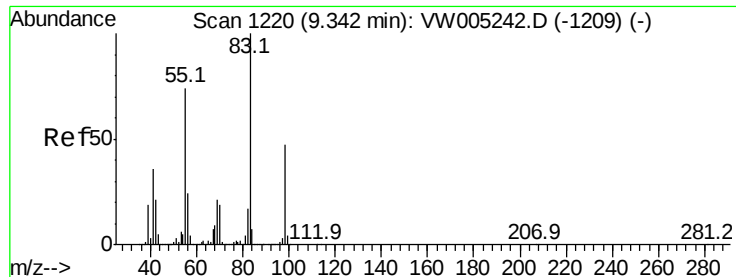
Tot Ion: 43 Resp: 59266  
Ion Ratio Lower Upper  
43 100  
61 15.4 12.3 18.5  
70 11.2 9.5 14.3



#38  
Carbon Tetrachloride  
Concen: 22.492 ug/l  
RT: 8.07 min Scan# 1012  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion: 117 Resp: 120377  
Ion Ratio Lower Upper  
117 100  
119 97.6 77.5 116.3  
121 30.7 24.7 37.1

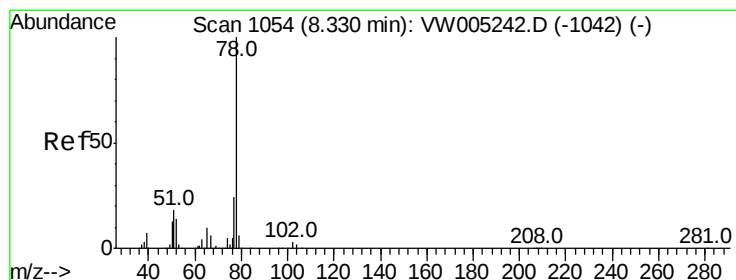
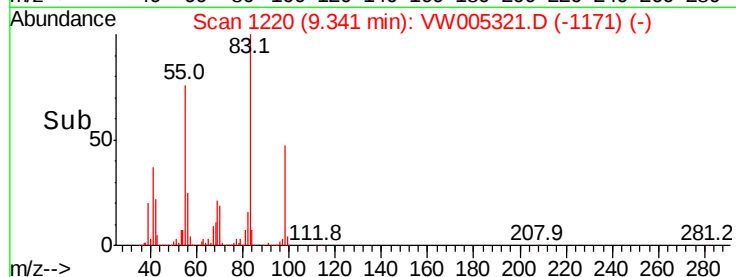
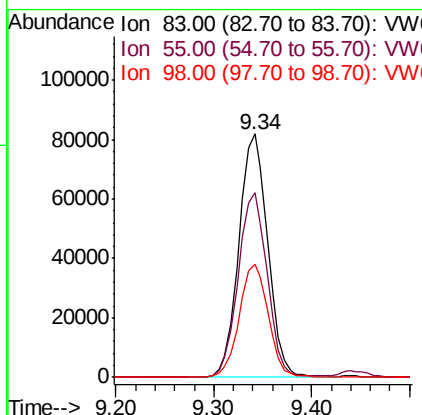
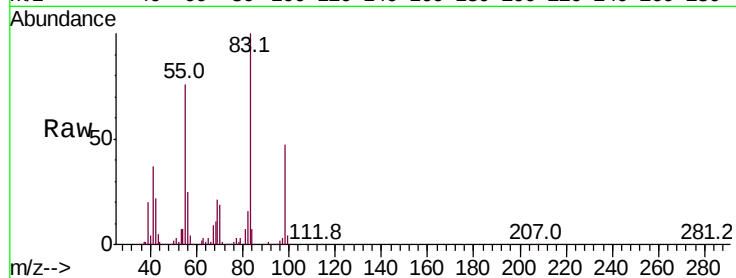




#39  
Methvlcvclohexane  
Concen: 22.196 ug/l  
RT: 9.34 min Scan# 1220  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

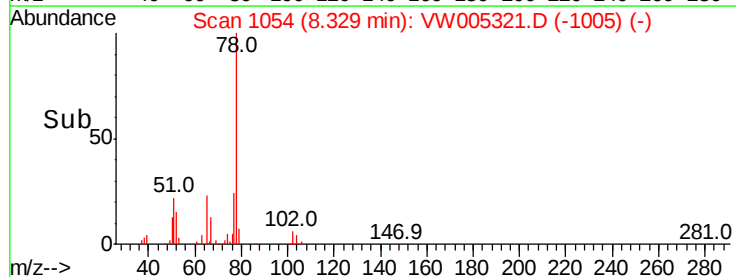
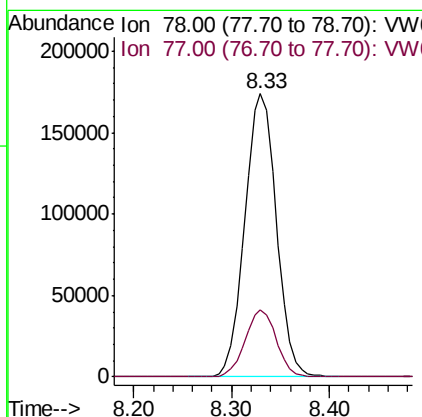
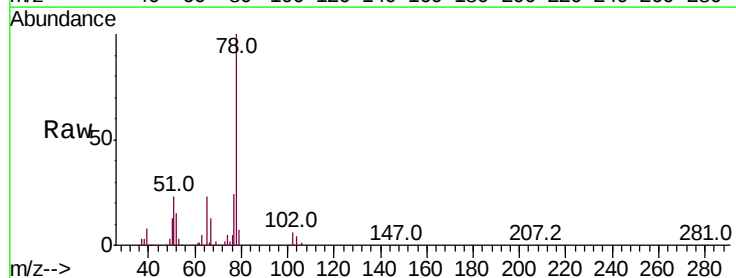
Instrument :  
MSVOA\_W  
ClientSampled :

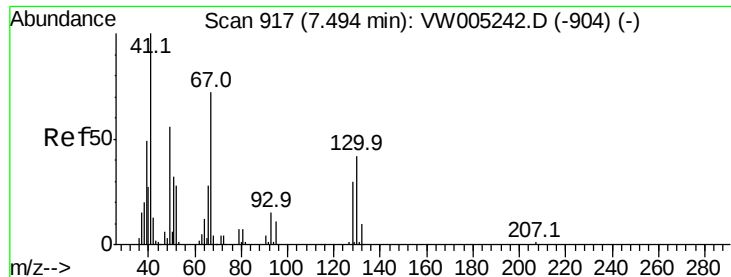
Tot Ion: 83 Resp: 168377  
Ion Ratio Lower Upper  
83 100  
55 75.7 58.9 88.3  
98 46.6 37.6 56.4



#40  
Benzene  
Concen: 23.213 ug/l  
RT: 8.33 min Scan# 1054  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion: 78 Resp: 390739  
Ion Ratio Lower Upper  
78 100  
77 23.8 18.9 28.3

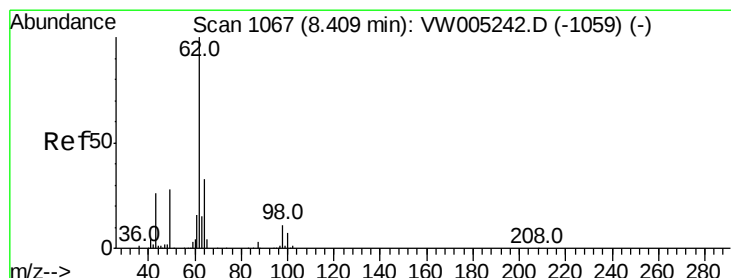
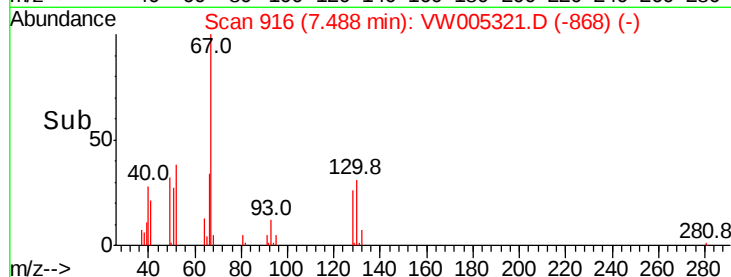
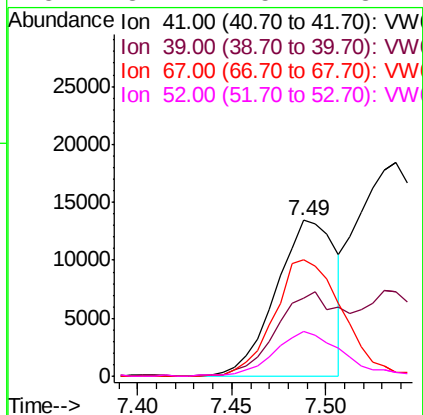
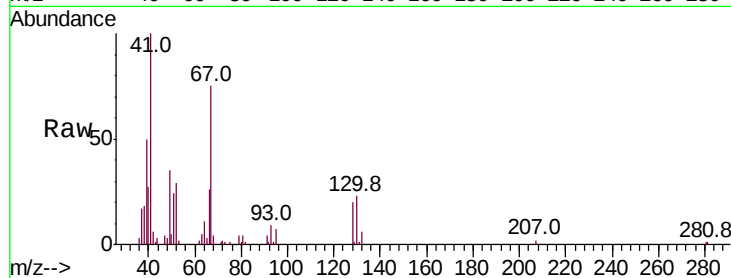




#41  
Methacrylonitrile  
Concen: 26.546 ug/l  
RT: 7.49 min Scan# 916  
Delta R.T. -0.01 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

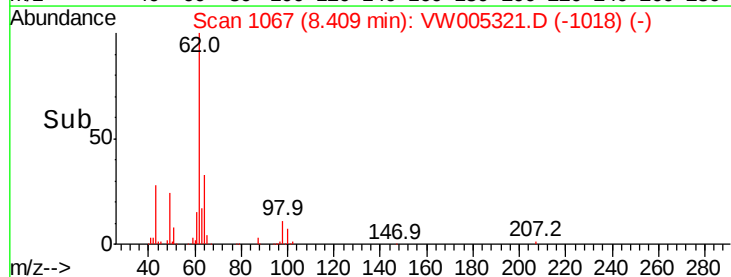
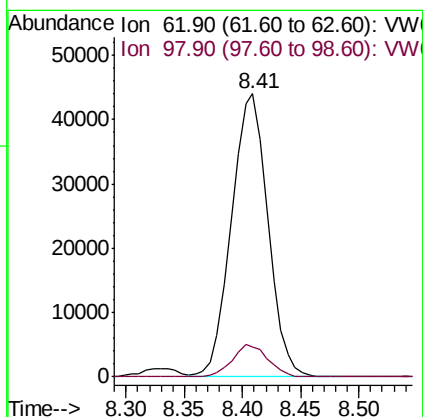
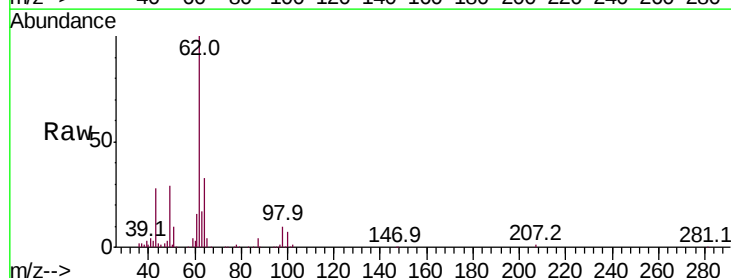
Instrument :  
MSVOA\_W  
ClientSampleId :

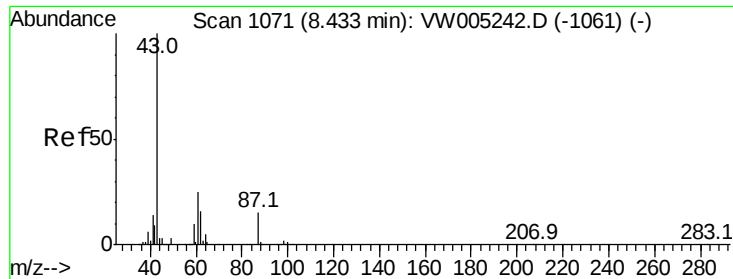
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 29597 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 59.2  | 39.9  | 59.9  |
| 67       | 85.7  | 65.7  | 98.5  |
| 52       | 32.7  | 25.1  | 37.7  |



#42  
1,2-Dichloroethane  
Concen: 23.816 ug/l  
RT: 8.41 min Scan# 1067  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 95906 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 11.0  | 0.0   | 22.0  |





#43

Isopropyl Acetate

Concen: 25.821 ug/l

RT: 8.43 min Scan# 1071

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

ClientSampleId :

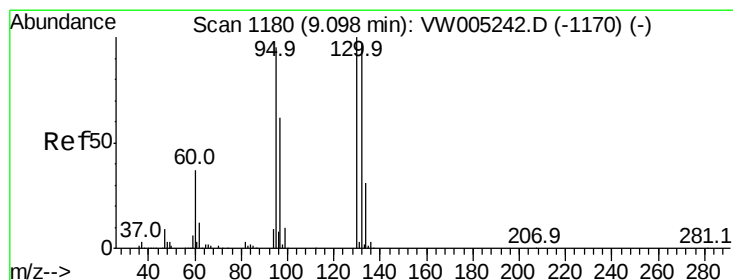
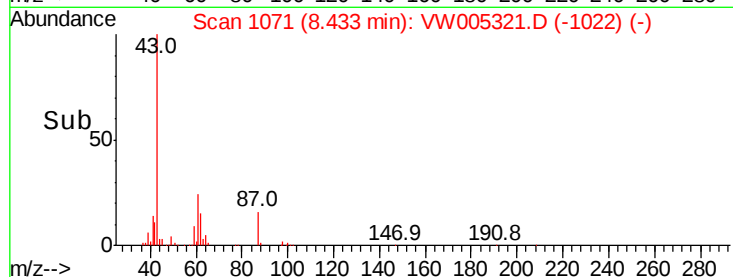
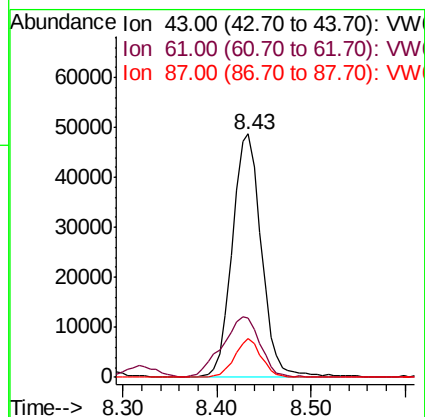
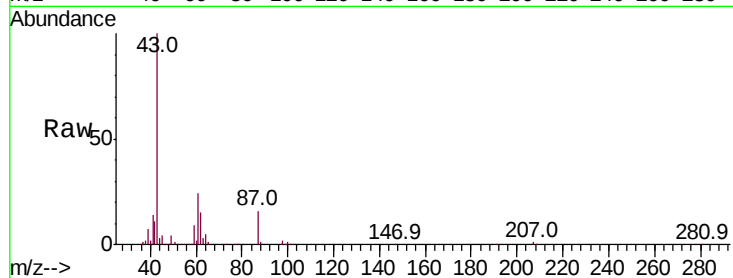
Tot Ion: 43 Resp: 104203

Ion Ratio Lower Upper

43 100

61 31.9 25.4 38.0

87 14.5 11.9 17.9



#44

Trichloroethene

Concen: 22.701 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VW005321.D

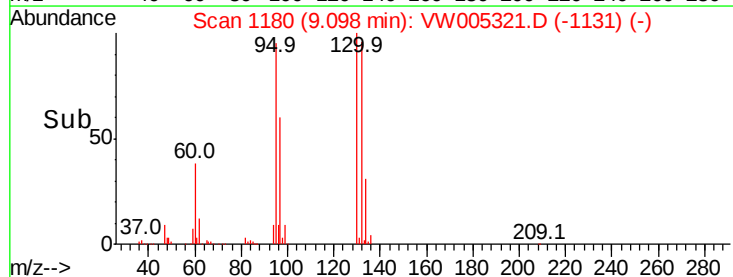
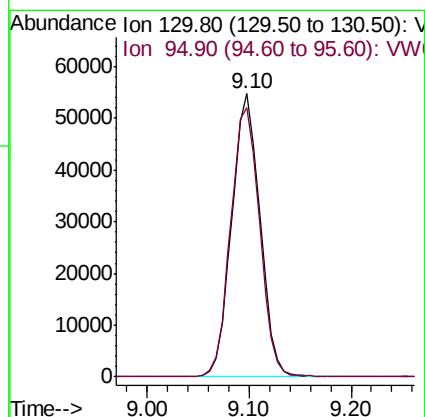
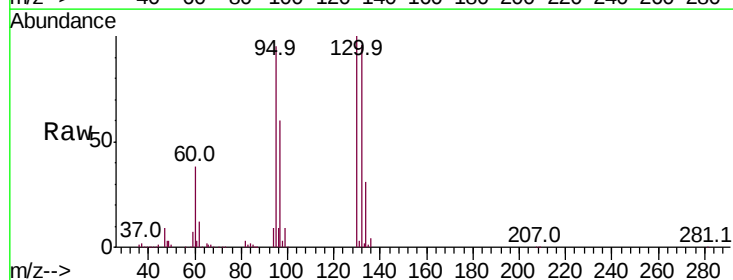
Acq: 12 Sep 2018 13:24

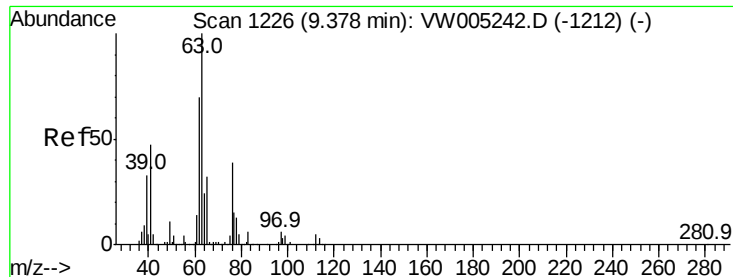
Tgt Ion:130 Resp: 104828

Ion Ratio Lower Upper

130 100

95 95.3 0.0 189.6





#45

1,2-Dichloropropane

Concen: 24.120 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

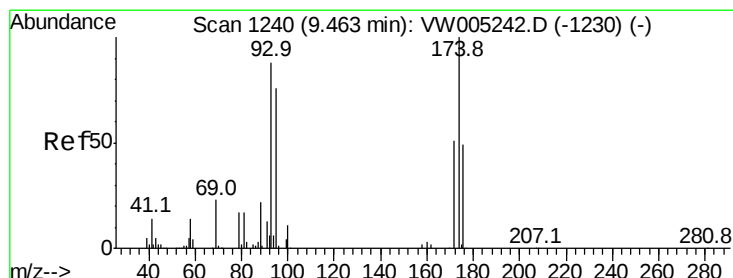
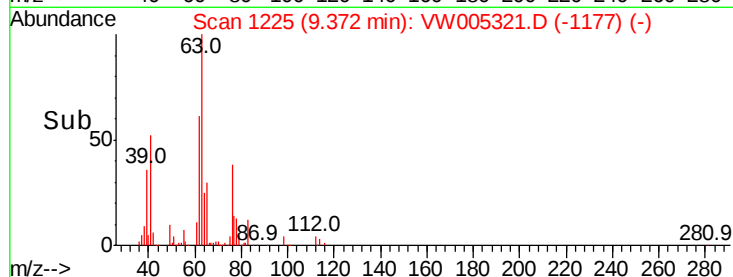
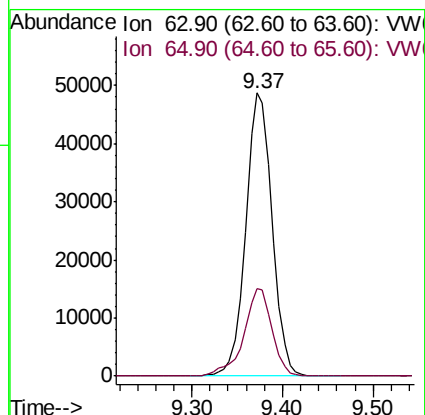
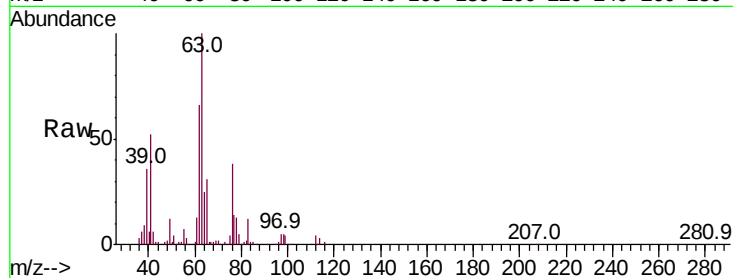
ClientSampled :

Tot Ion: 63 Resp: 97586

Ion Ratio Lower Upper

63 100

65 30.9 25.4 38.2



#46

Dibromomethane

Concen: 23.341 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

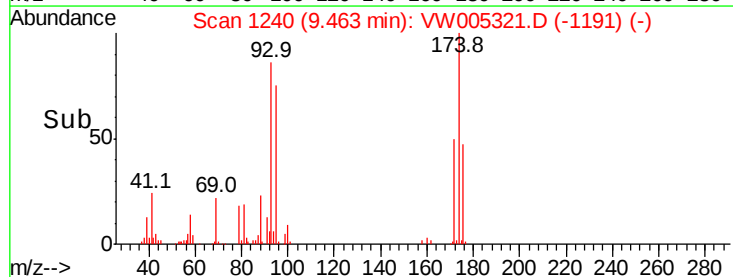
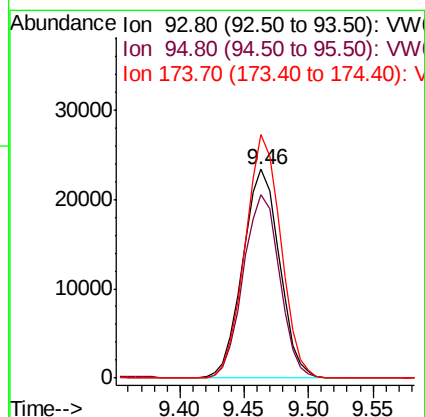
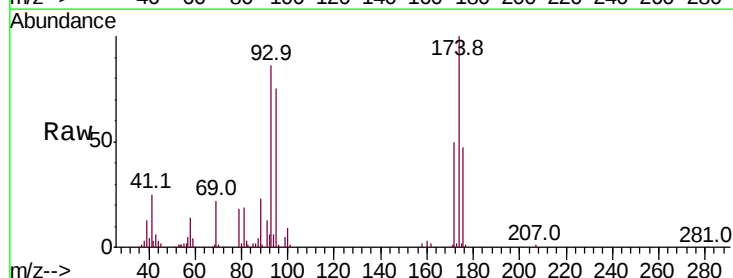
Tgt Ion: 93 Resp: 46224

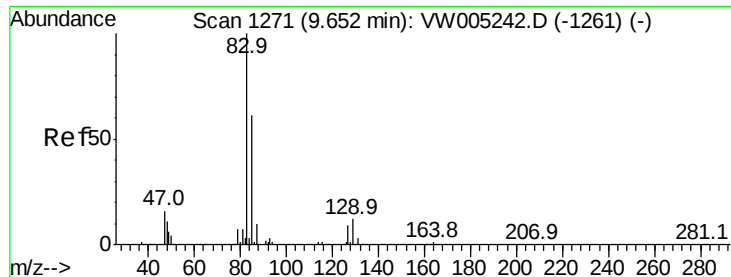
Ion Ratio Lower Upper

93 100

95 86.7 67.0 100.4

174 112.9 92.2 138.2





#47

Bromodichloromethane

Concen: 23.001 ug/l

RT: 9.65 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

ClientSampleId :

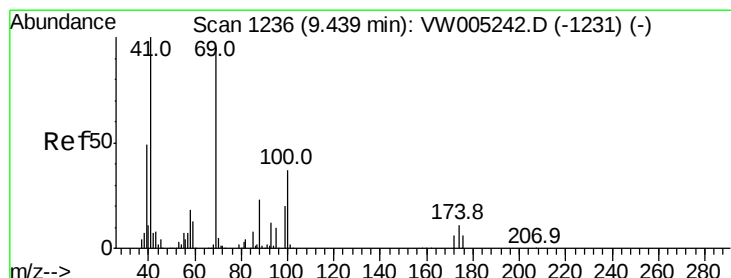
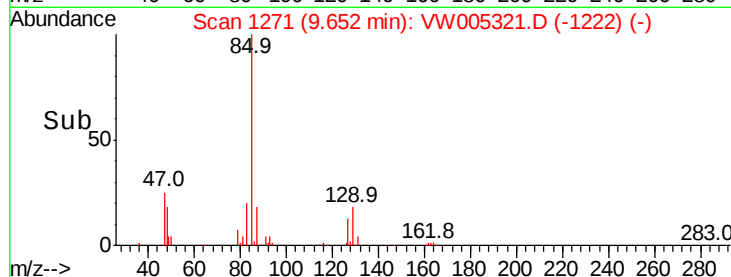
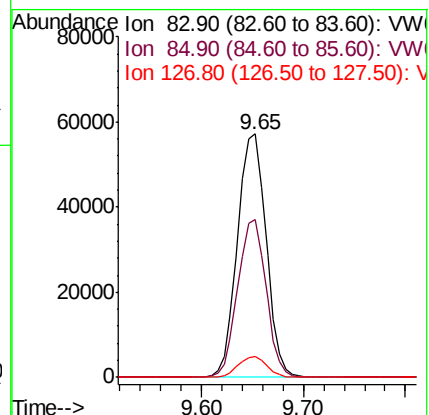
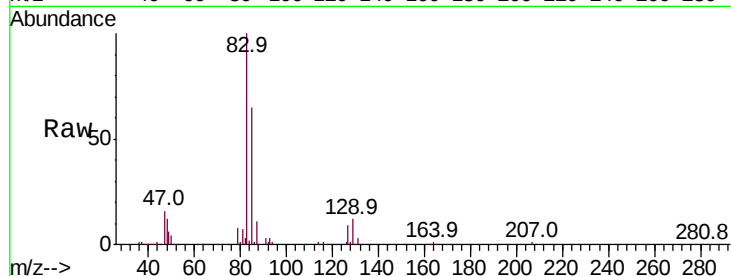
Tot Ion: 83 Resp: 111431

Ion Ratio Lower Upper

83 100

85 64.8 49.0 73.6

127 8.7 7.0 10.4



#48

Methyl methacrylate

Concen: 23.232 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

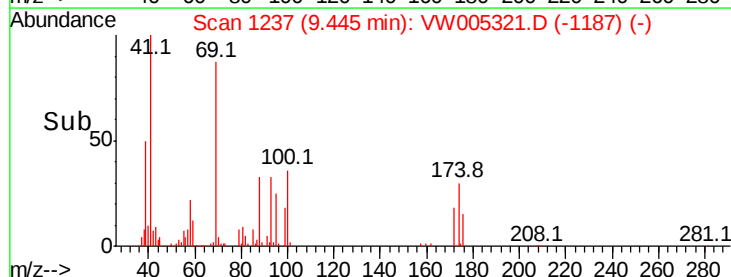
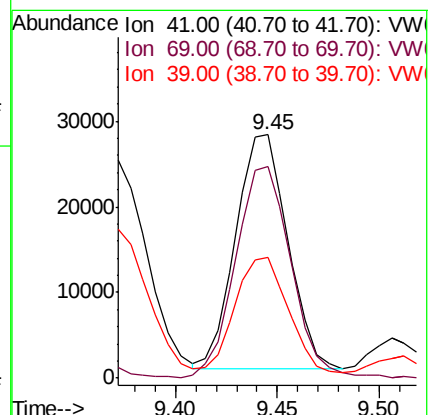
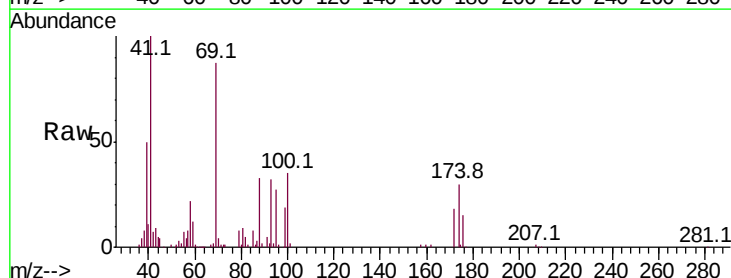
Tgt Ion: 41 Resp: 48680

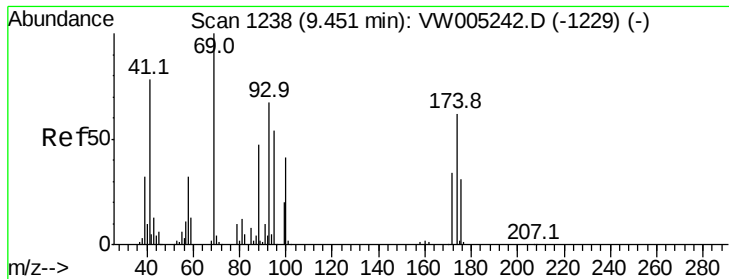
Ion Ratio Lower Upper

41 100

69 95.4 74.6 112.0

39 50.2 36.7 55.1





#49

1,4-Dioxane

Concen: 512.994 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :  
MSVOA\_W  
ClientSampled :

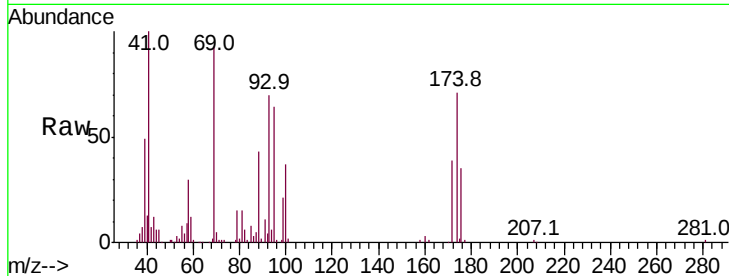
Tot Ion: 88 Resp: 18968

Ion Ratio Lower Upper

88 100

43 26.0 22.7 34.1

58 68.8 56.6 85.0

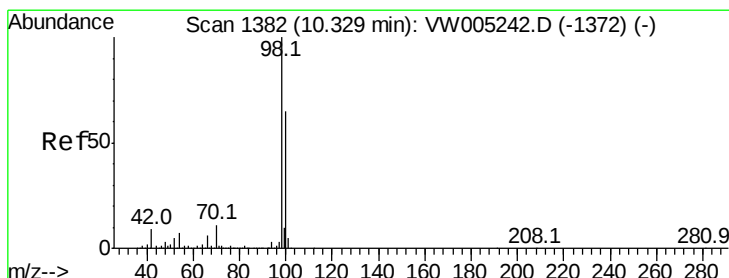
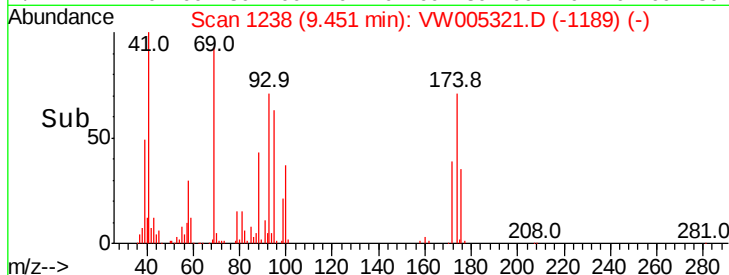
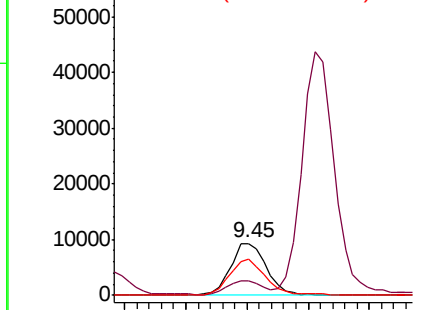


Abundance

Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 53.635 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005321.D

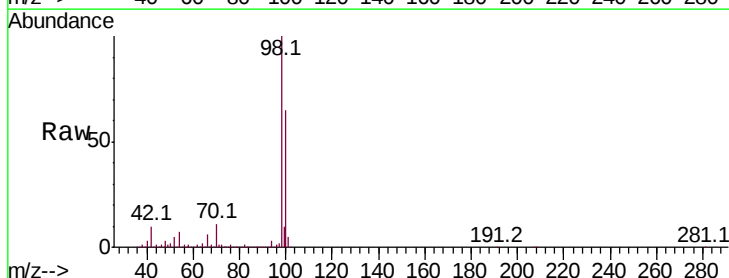
Acq: 12 Sep 2018 13:24

Tgt Ion: 98 Resp: 885380

Ion Ratio Lower Upper

98 100

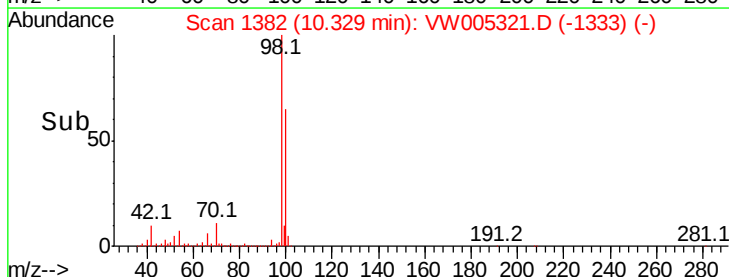
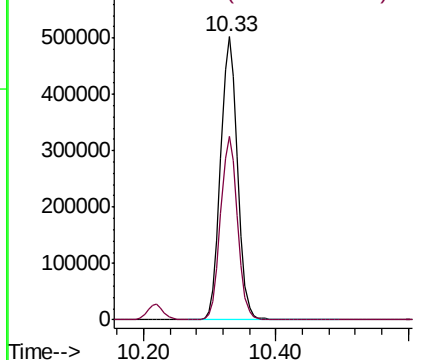
100 64.7 52.0 78.0

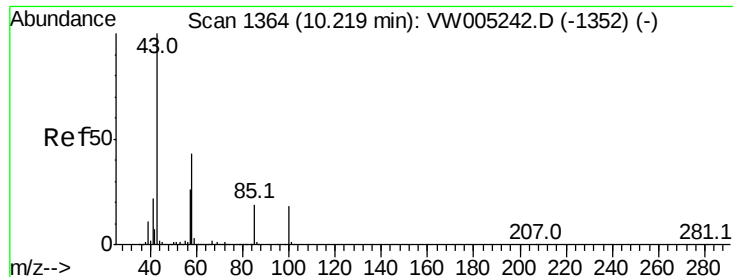


Abundance

Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 126.696 ug/l

RT: 10.22 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

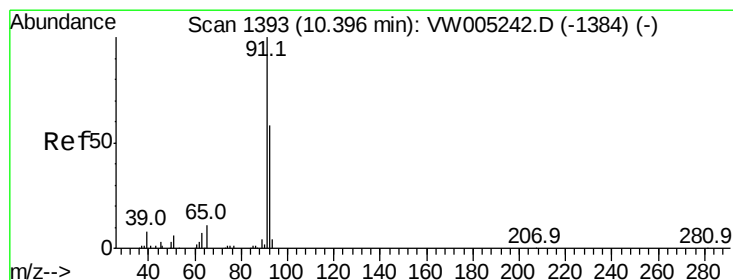
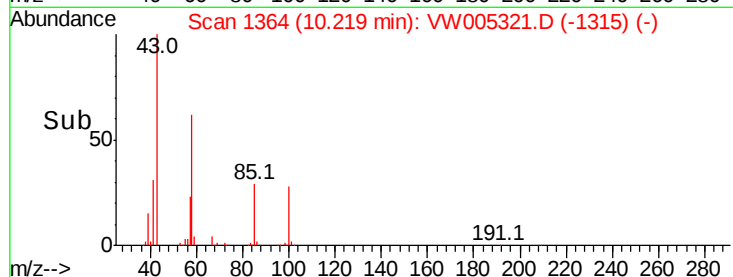
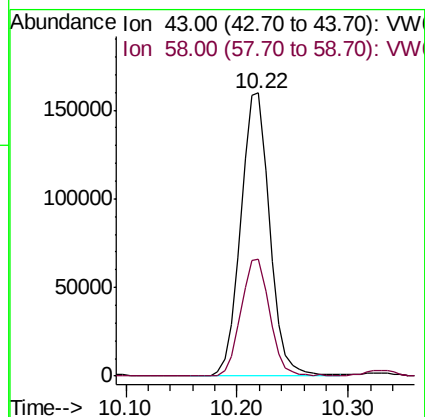
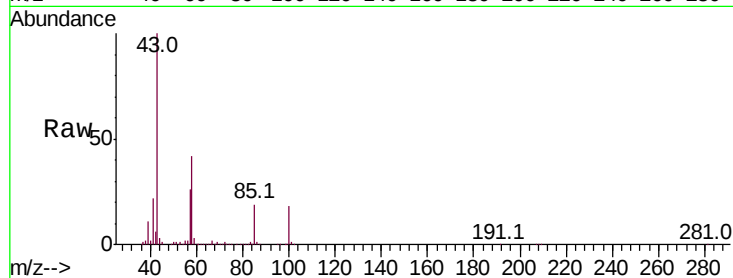
ClientSampleId :

Tot Ion: 43 Resp: 287730

Ion Ratio Lower Upper

43 100

58 41.3 33.8 50.6



#52

Toluene

Concen: 22.030 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW005321.D

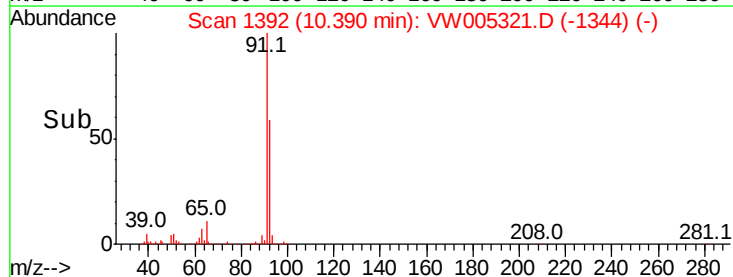
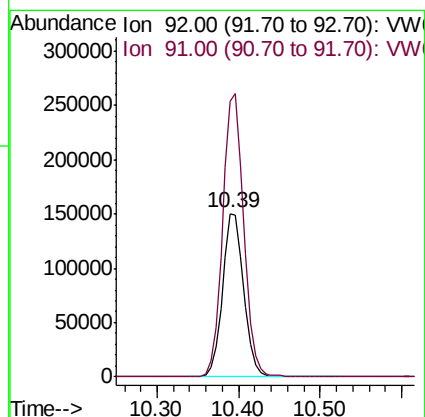
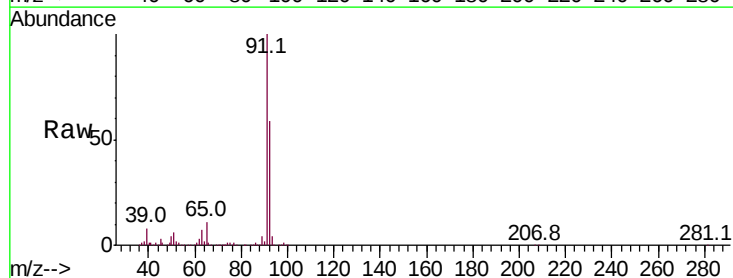
Acq: 12 Sep 2018 13:24

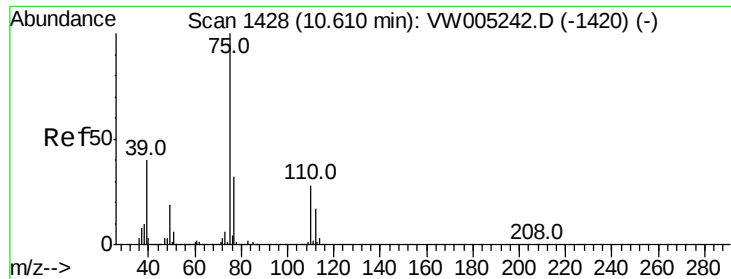
Tgt Ion: 92 Resp: 269507

Ion Ratio Lower Upper

92 100

91 173.0 137.4 206.0





#53

t-1,3-Dichloropropene

Concen: 23.010 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

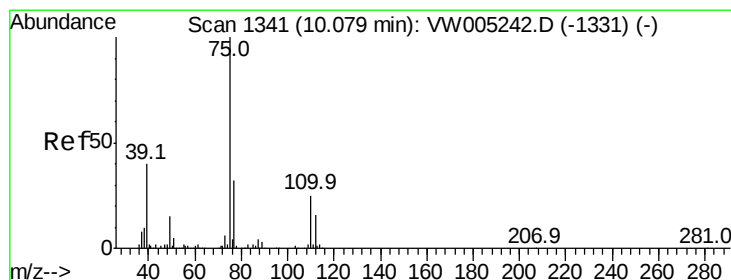
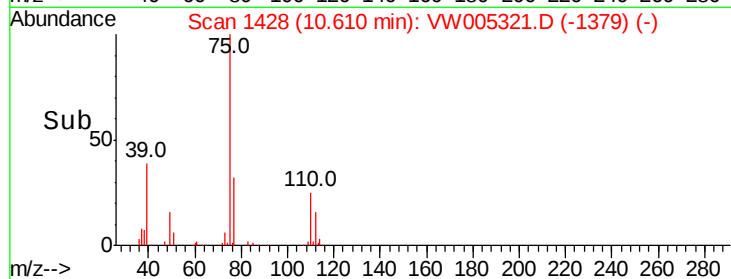
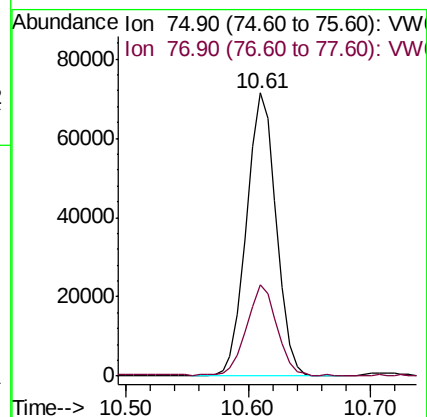
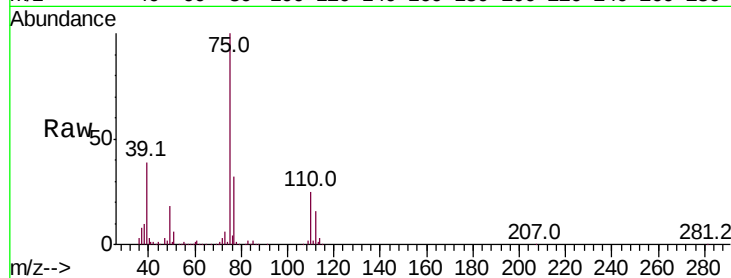
ClientSampleId :

Tot Ion: 75 Resp: 120471

Ion Ratio Lower Upper

75 100

77 31.8 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 23.176 ug/l

RT: 10.08 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

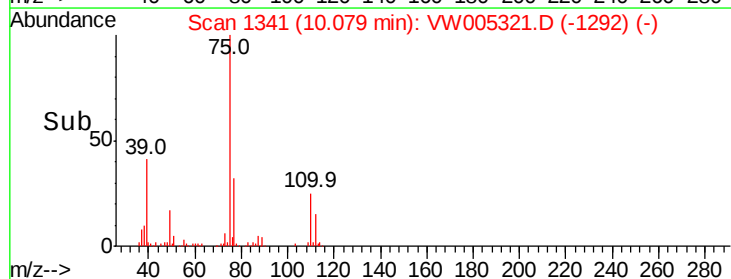
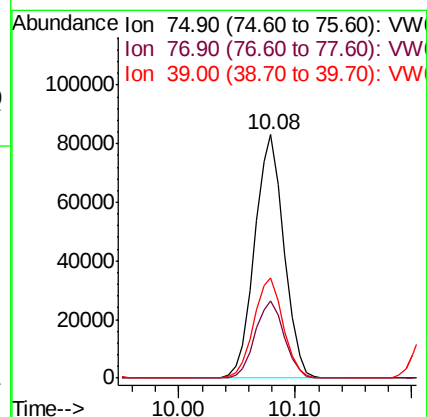
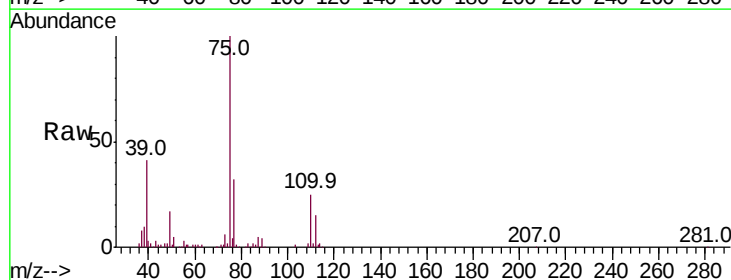
Tgt Ion: 75 Resp: 145308

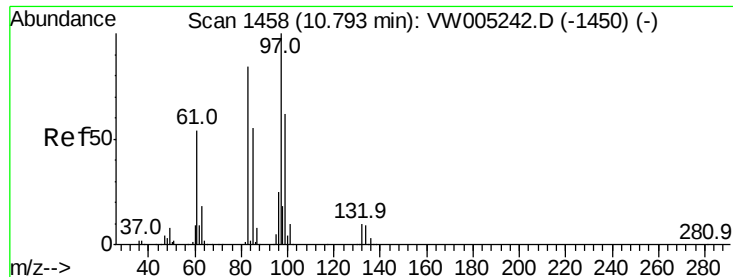
Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3

39 41.3 31.8 47.6

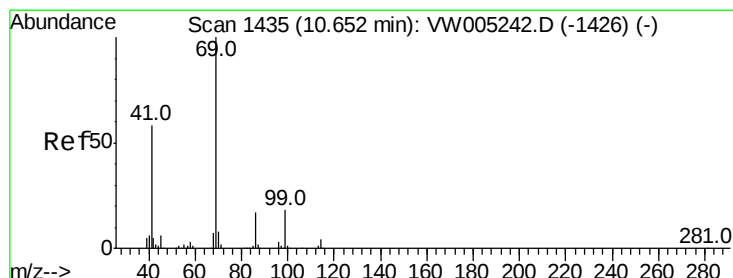
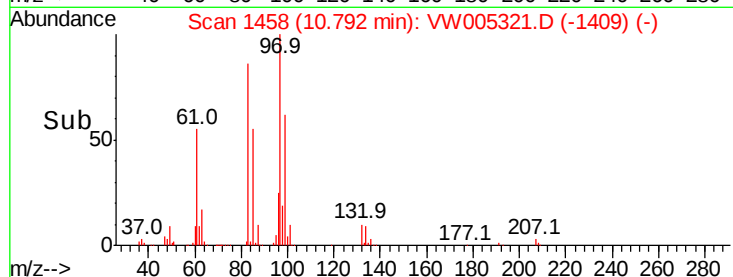
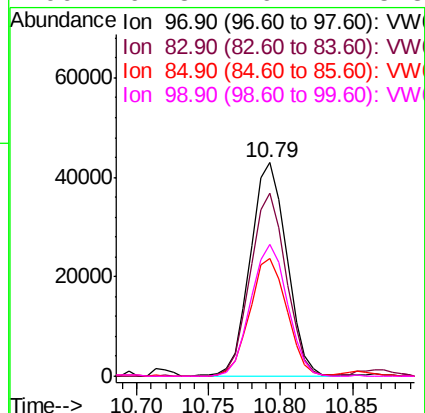
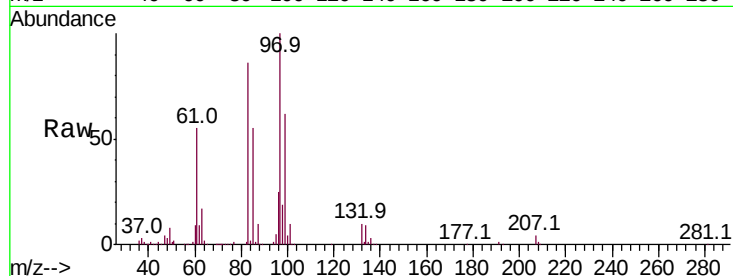




#55  
 1,1,2-Trichloroethane  
 Concen: 23.846 ug/l  
 RT: 10.79 min Scan# 1458  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

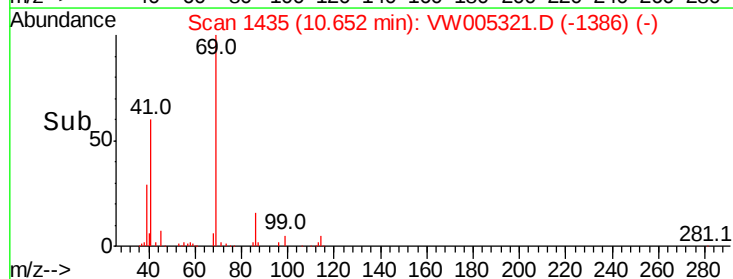
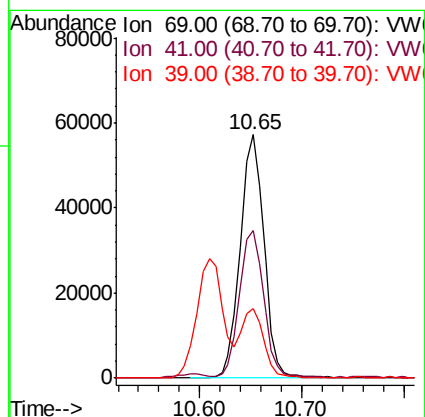
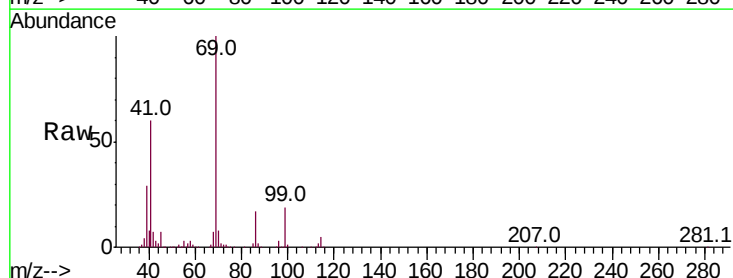
Instrument :  
 MSVOA\_W  
 ClientSampleId :

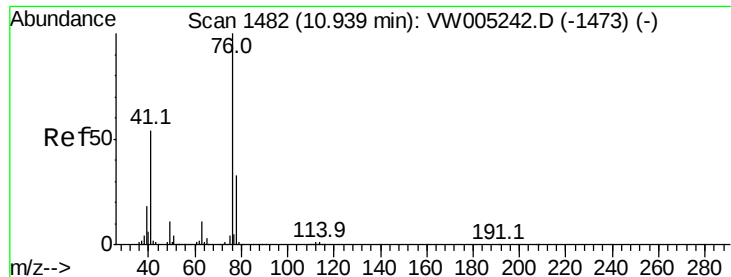
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 75299 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 86.0  | 67.2  | 100.8 |
| 85       | 55.1  | 44.4  | 66.6  |
| 99       | 61.8  | 49.2  | 73.8  |



#56  
 Ethyl methacrylate  
 Concen: 23.117 ug/l  
 RT: 10.65 min Scan# 1435  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 92540 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 61.6  | 48.7  | 73.1  |
| 39       | 26.9  | 20.9  | 31.3  |





#57

1,3-Dichloropropane

Concen: 23.471 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

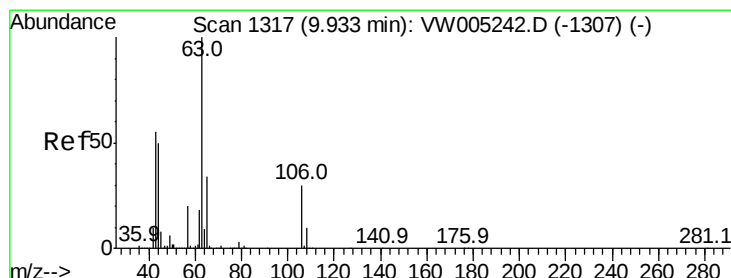
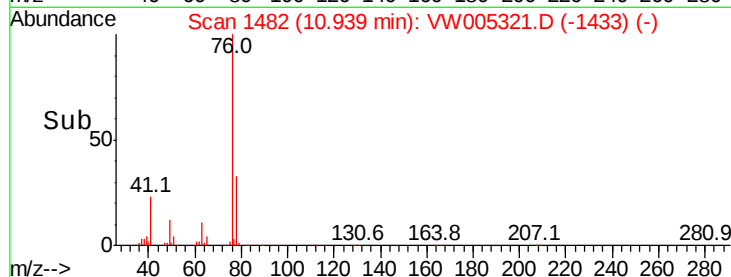
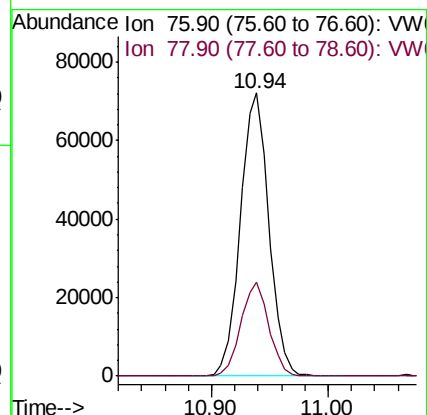
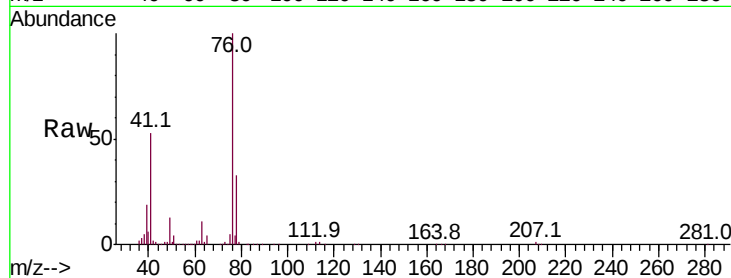
ClientSampled :

Tot Ion: 76 Resp: 123069

Ion Ratio Lower Upper

76 100

78 32.6 26.0 39.0



#58

2-Chloroethyl Vinyl ether

Concen: 119.474 ug/l

RT: 9.93 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VW005321.D

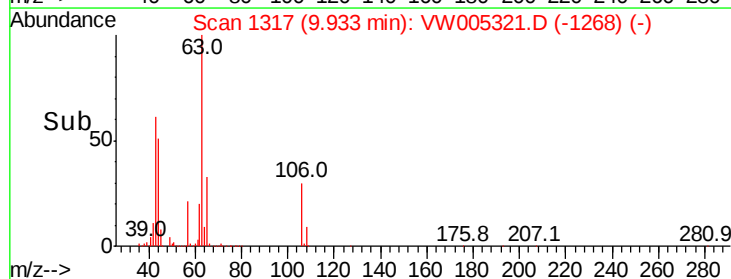
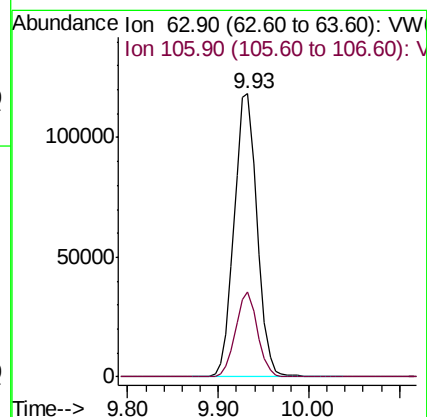
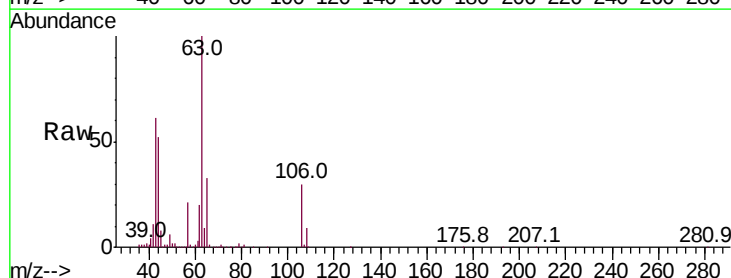
Acq: 12 Sep 2018 13:24

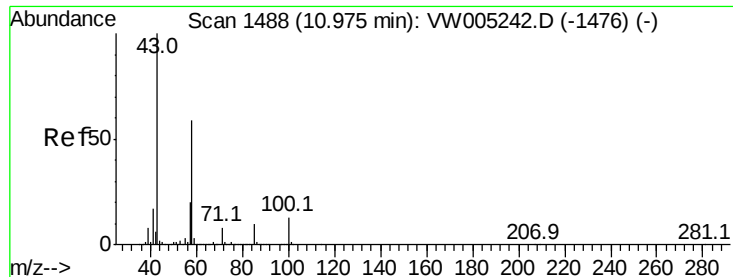
Tgt Ion: 63 Resp: 207879

Ion Ratio Lower Upper

63 100

106 28.7 23.4 35.0





#59

2-Hexanone

Concen: 130.826 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

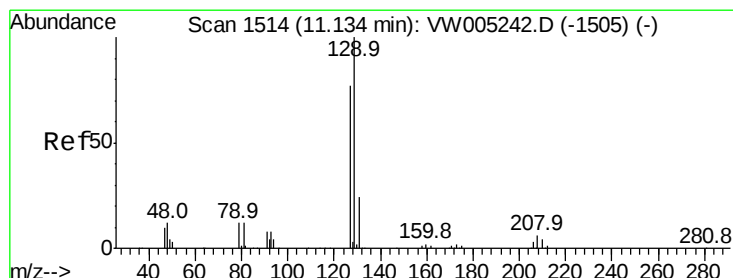
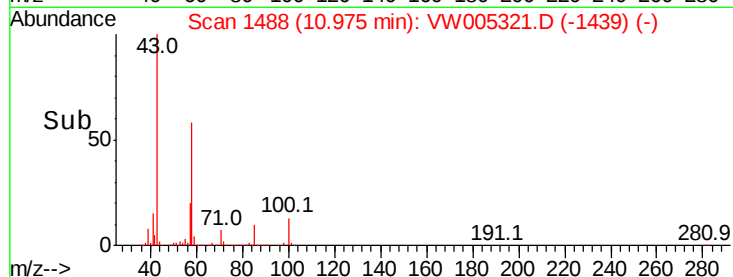
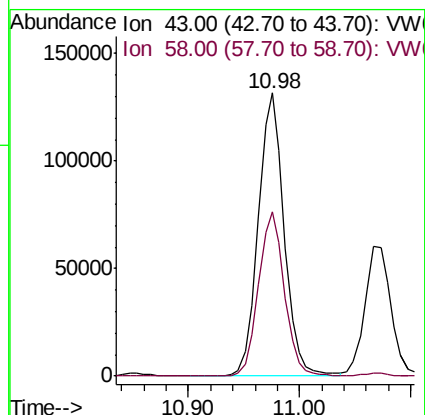
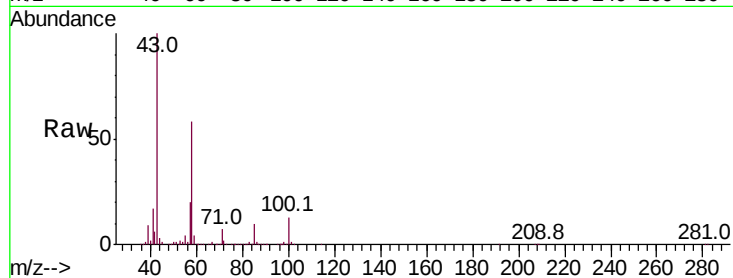
ClientSampleId :

Tot Ion: 43 Resp: 214191

Ion Ratio Lower Upper

43 100

58 57.8 29.3 87.9



#60

Dibromochloromethane

Concen: 22.724 ug/l

RT: 11.13 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VW005321.D

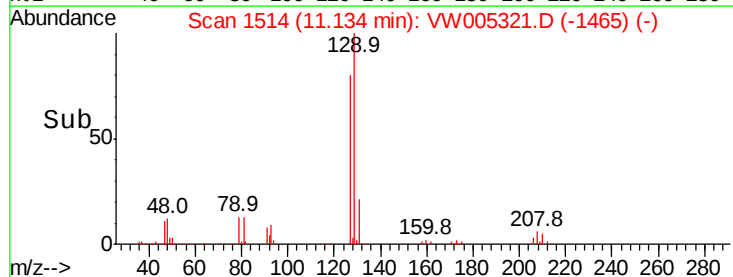
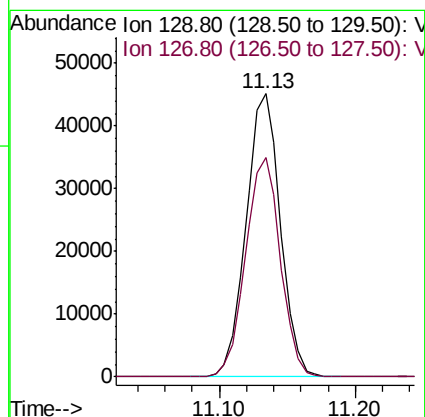
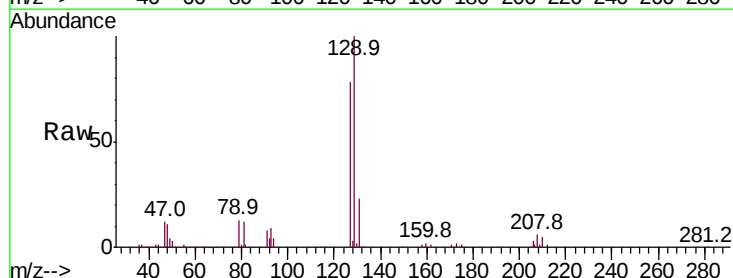
Acq: 12 Sep 2018 13:24

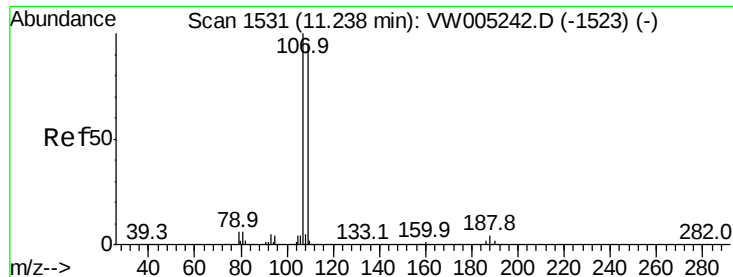
Tgt Ion: 129 Resp: 79621

Ion Ratio Lower Upper

129 100

127 78.5 39.0 117.0

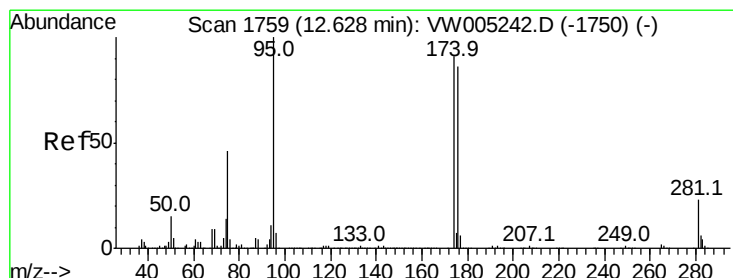
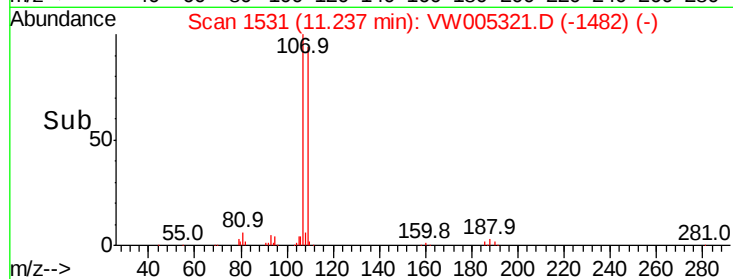
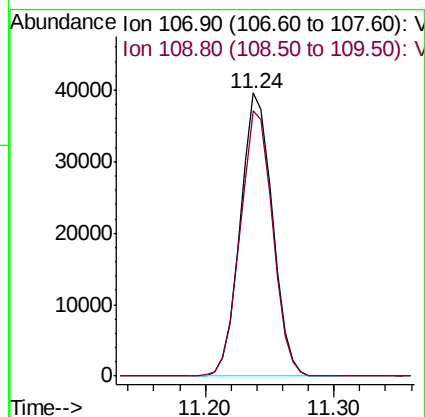
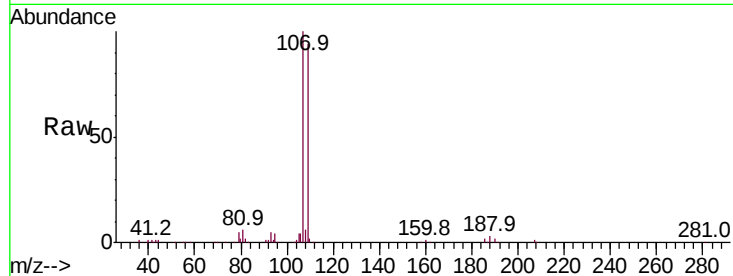




#61  
 1,2-Dibromoethane  
 Concen: 23.516 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

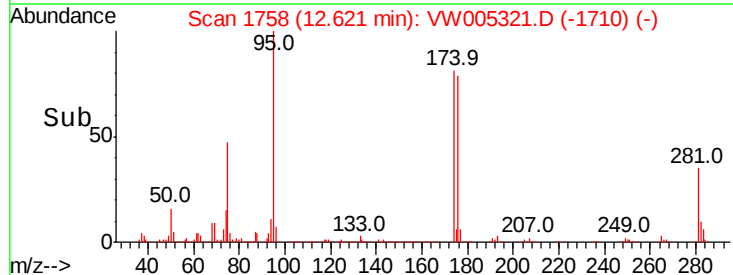
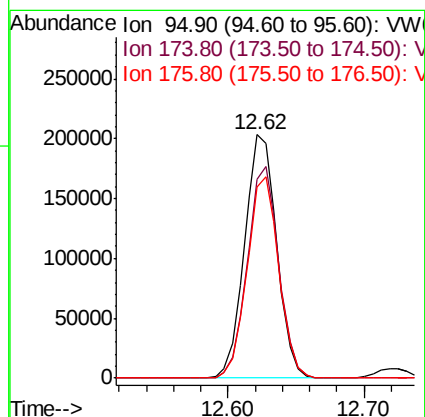
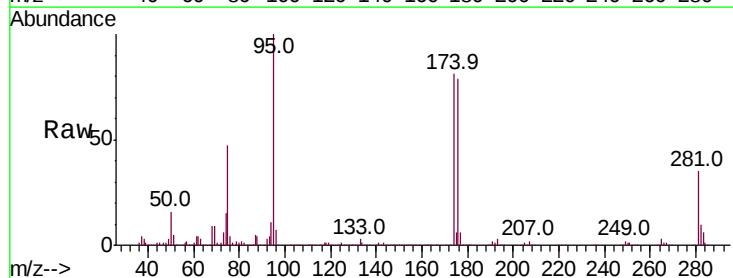
Instrument :  
 MSVOA\_W  
 ClientSampleId :

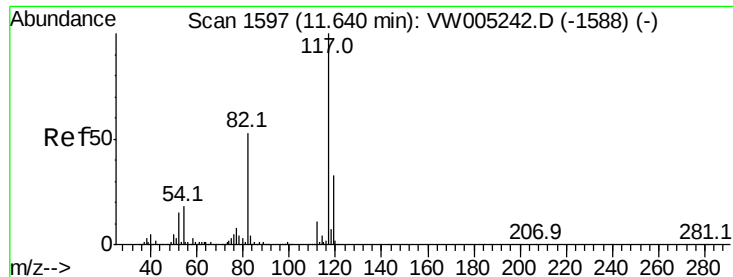
Tot Ion:107 Resp: 68095  
 Ion Ratio Lower Upper  
 107 100  
 109 95.0 75.7 113.5



#62  
 4-Bromofluorobenzene  
 Concen: 55.392 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.01 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

Tgt Ion: 95 Resp: 334455  
 Ion Ratio Lower Upper  
 95 100  
 174 85.3 0.0 174.6  
 176 82.0 0.0 167.6

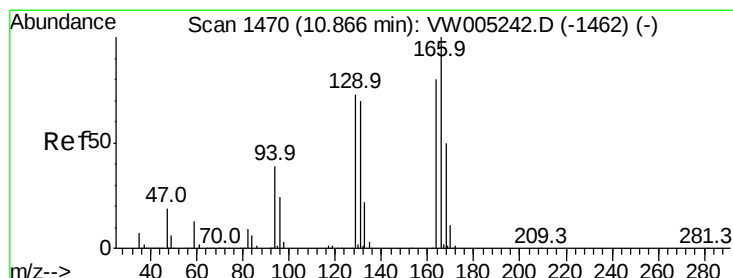
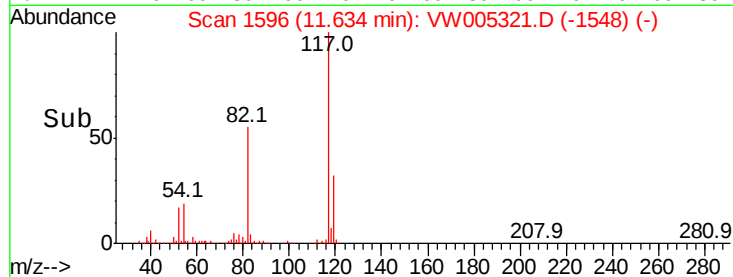
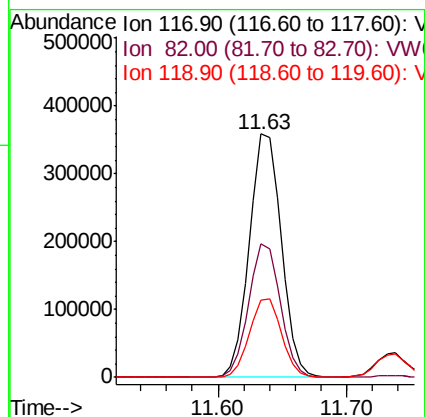
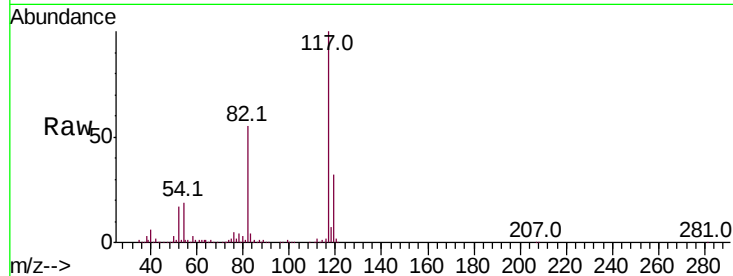




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.01 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

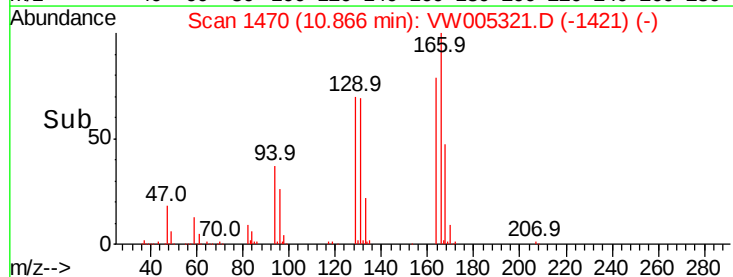
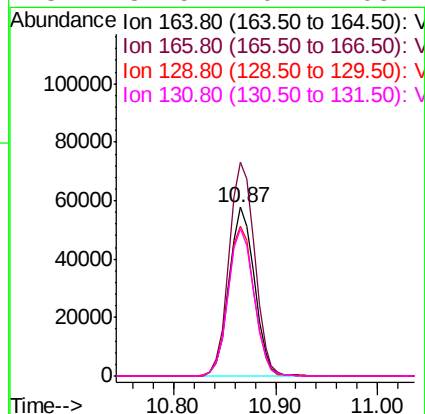
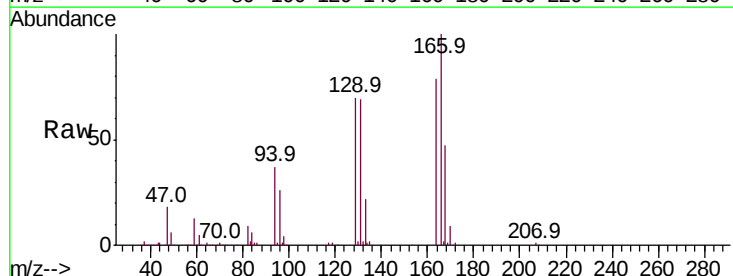
Instrument :  
MSVOA\_W  
ClientSampleId :

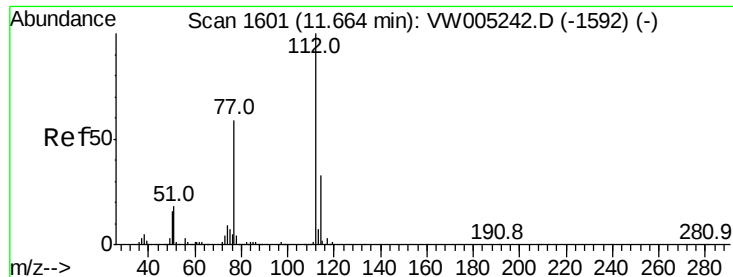
Tot Ion:117 Resp: 615279  
Ion Ratio Lower Upper  
117 100  
82 54.8 42.6 63.8  
119 31.9 26.2 39.4



#64  
Tetrachloroethene  
Concen: 21.752 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion:164 Resp: 99293  
Ion Ratio Lower Upper  
164 100  
166 126.5 100.2 150.2  
129 89.1 73.2 109.8  
131 87.5 70.2 105.4

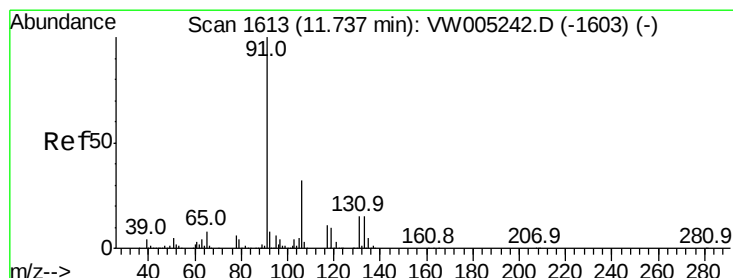
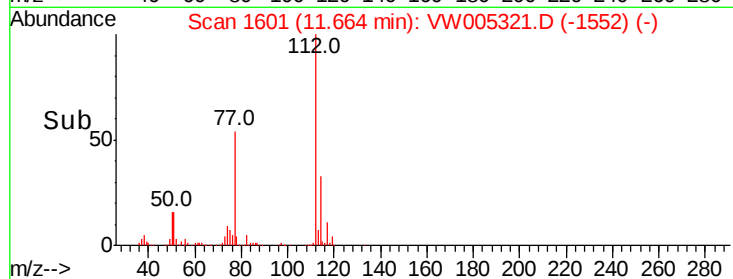
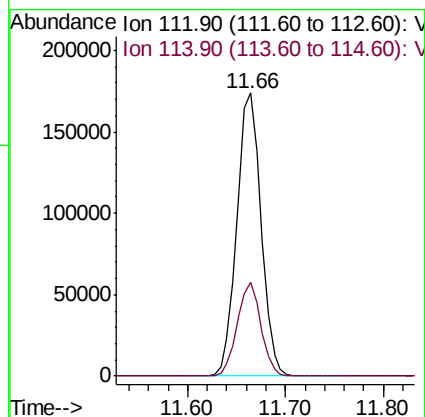
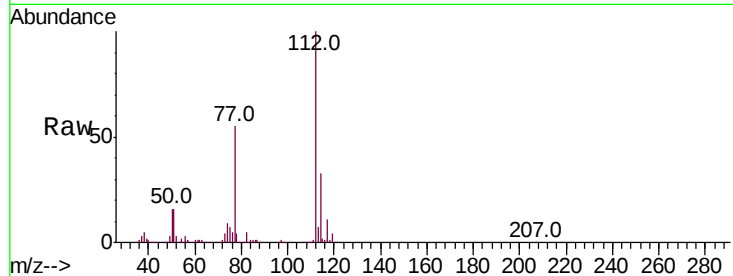




#65  
Chlorobenzene  
Concen: 22.196 ug/l  
RT: 11.66 min Scan# 1601  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

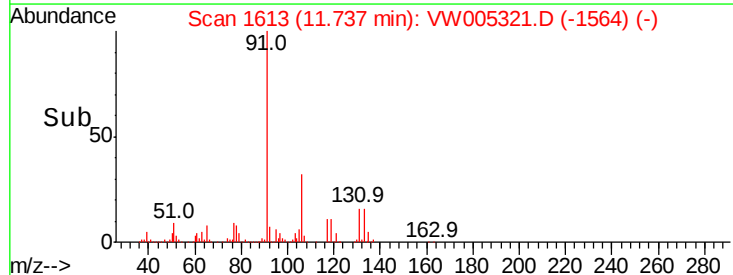
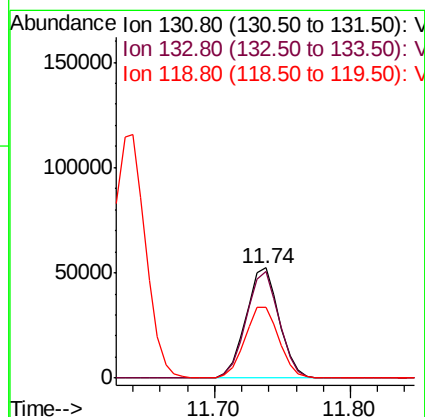
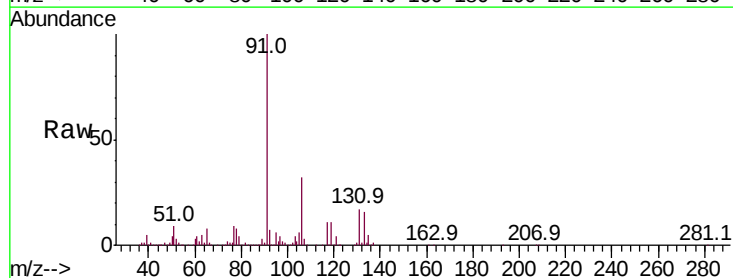
Instrument :  
MSVOA\_W  
ClientSampleId :

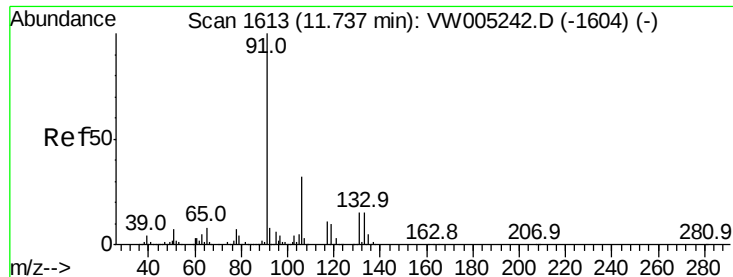
Tot Ion:112 Resp: 299165  
Ion Ratio Lower Upper  
112 100  
114 33.1 26.2 39.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 22.288 ug/l  
RT: 11.74 min Scan# 1613  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion:131 Resp: 89694  
Ion Ratio Lower Upper  
131 100  
133 96.2 48.1 144.3  
119 66.1 33.4 100.1





#67

Ethyl Benzene

Concen: 22.060 ug/l

RT: 11.74 min Scan# 1613

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

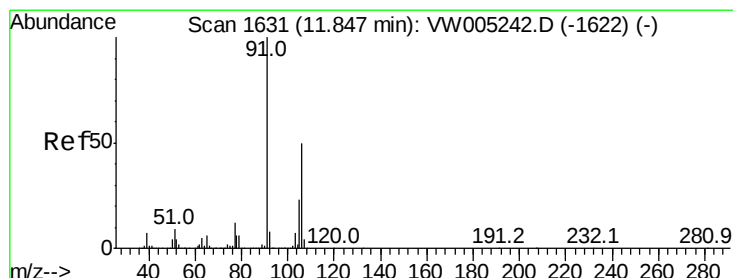
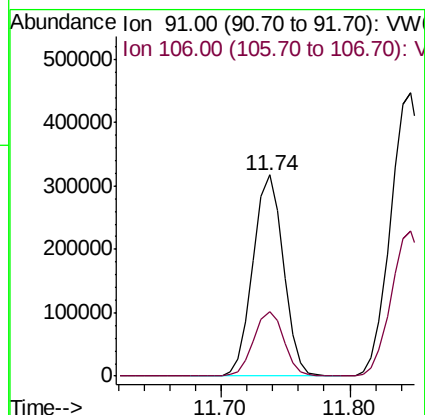
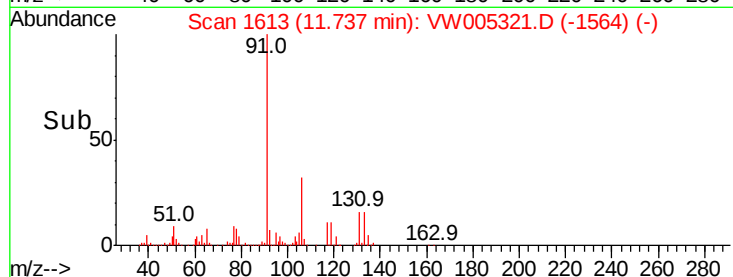
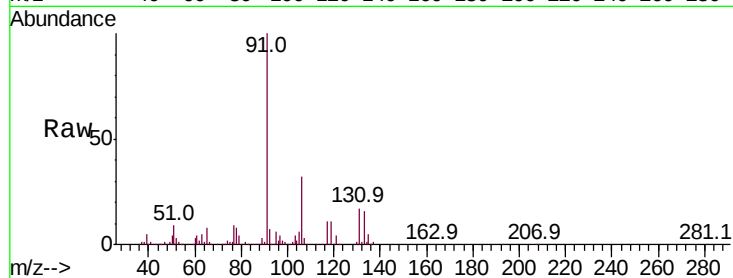
ClientSampleId :

Tot Ion: 91 Resp: 517810

Ion Ratio Lower Upper

91 100

106 32.2 25.6 38.4



#68

m/p-Xylenes

Concen: 45.592 ug/l

RT: 11.85 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VW005321.D

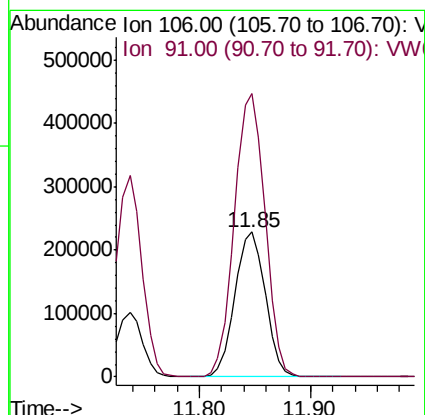
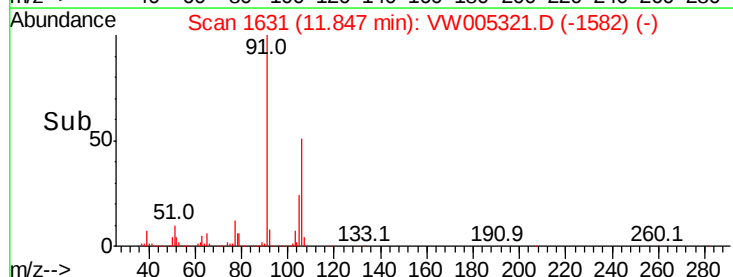
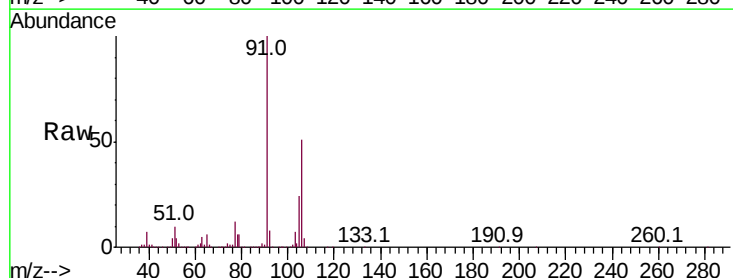
Acq: 12 Sep 2018 13:24

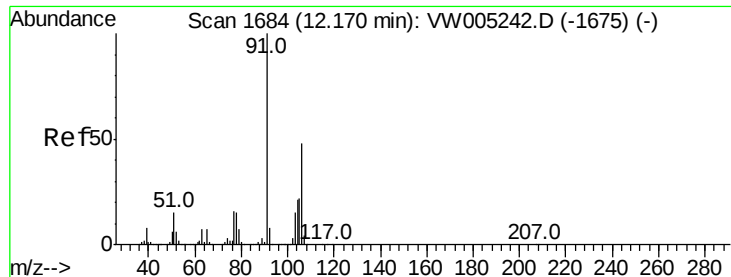
Tgt Ion: 106 Resp: 431248

Ion Ratio Lower Upper

106 100

91 197.6 160.2 240.2

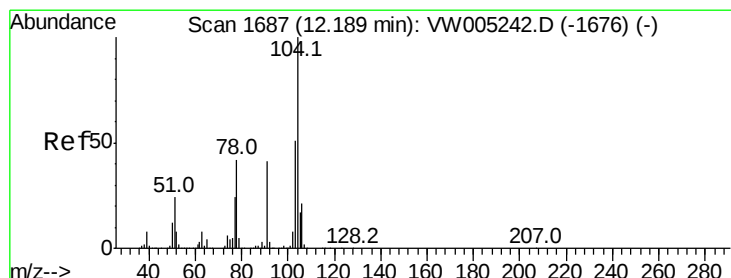
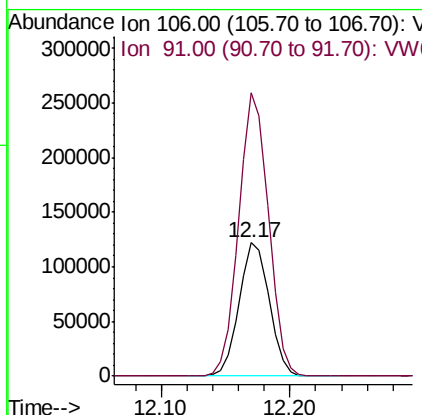
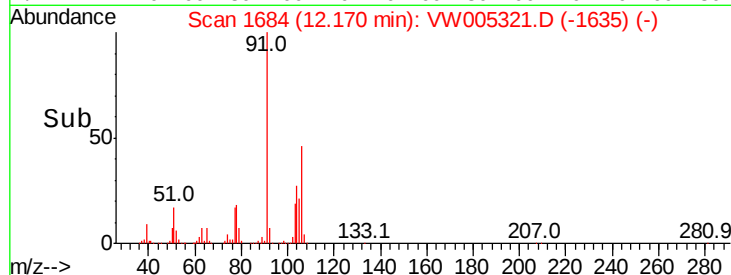
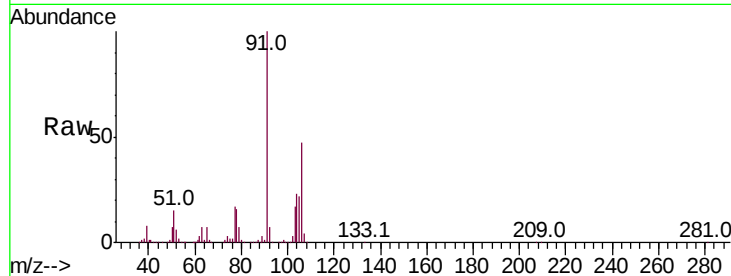




#69  
o-Xylene  
Concen: 22.387 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

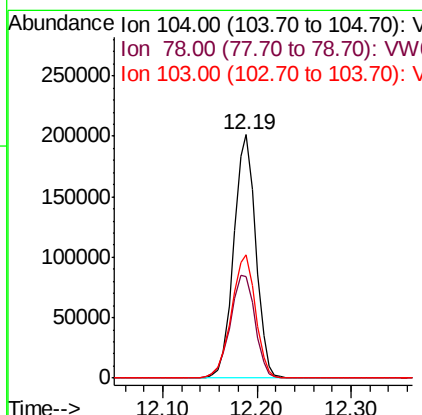
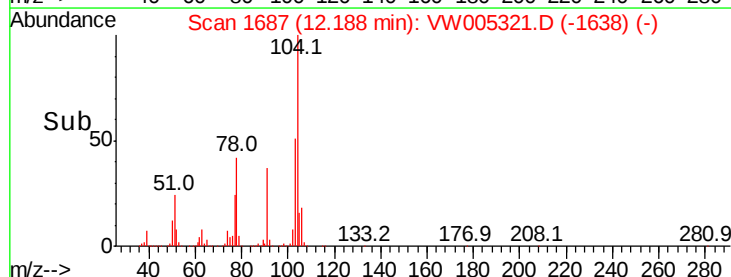
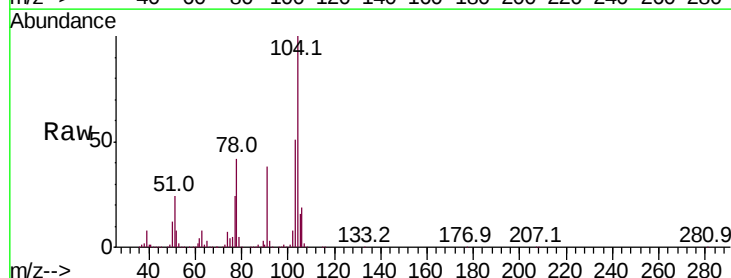
Instrument :  
MSVOA\_W  
ClientSampleId :

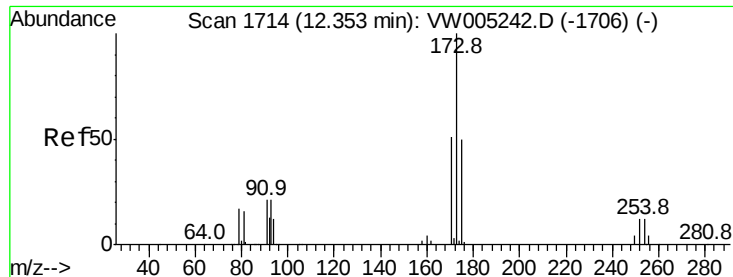
Tot Ion:106 Resp: 197010  
Ion Ratio Lower Upper  
106 100  
91 210.9 104.1 312.3



#70  
Styrene  
Concen: 22.725 ug/l  
RT: 12.19 min Scan# 1687  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Tgt Ion:104 Resp: 326328  
Ion Ratio Lower Upper  
104 100  
78 47.7 37.4 56.2  
103 55.4 44.1 66.1





#71

Bromoform

Concen: 22.842 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

ClientSampleId :

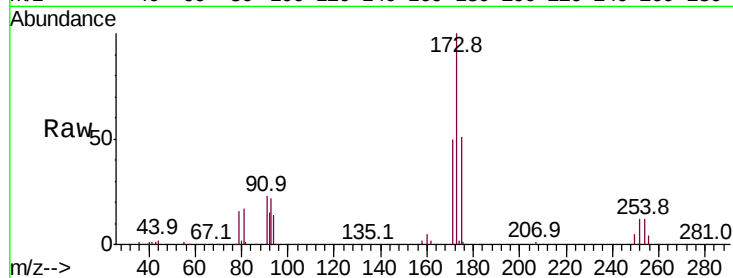
Tot Ion:173 Resp: 49843

Ion Ratio Lower Upper

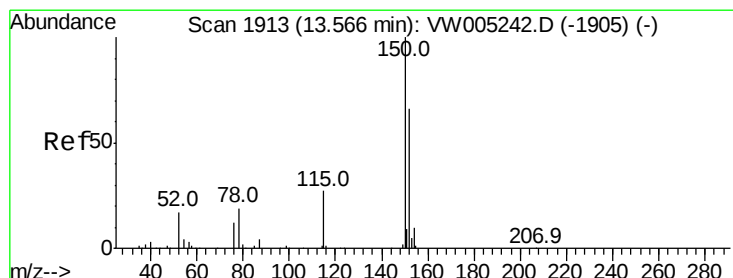
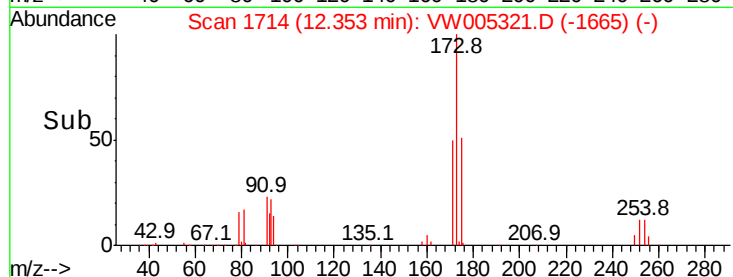
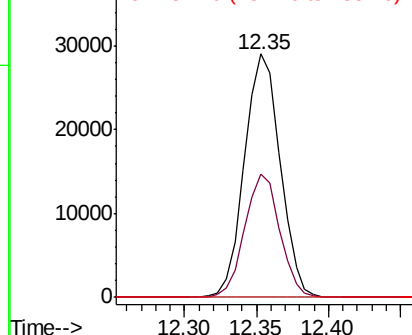
173 100

175 49.4 24.9 74.6

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

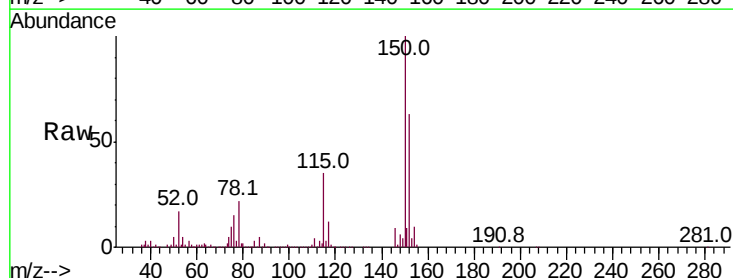
Tgt Ion:152 Resp: 350690

Ion Ratio Lower Upper

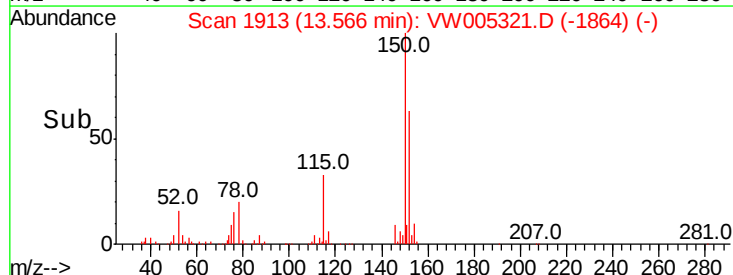
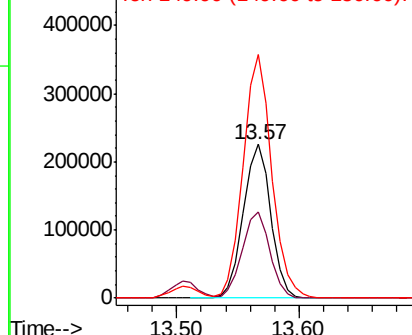
152 100

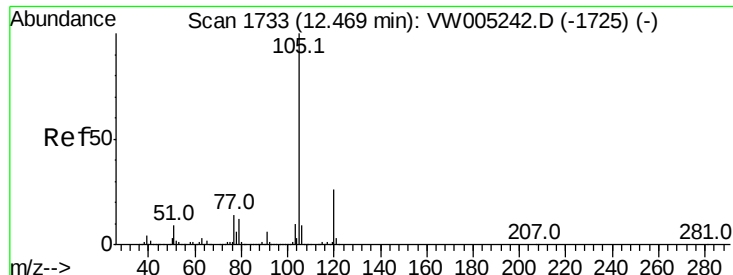
115 56.2 27.5 82.4

150 164.7 0.0 347.4



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





#73

Isopropylbenzene

Concen: 21.565 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

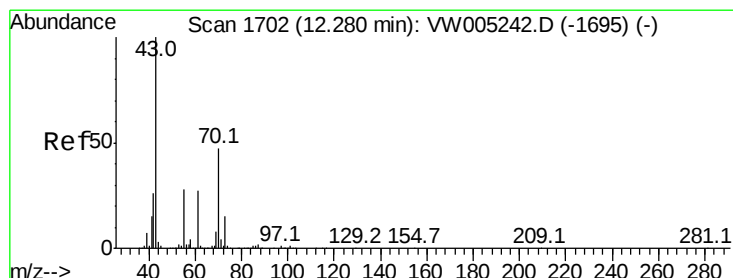
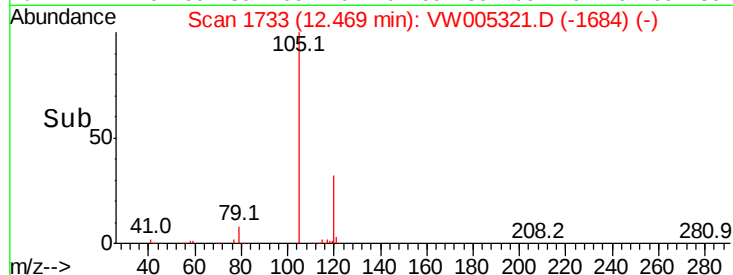
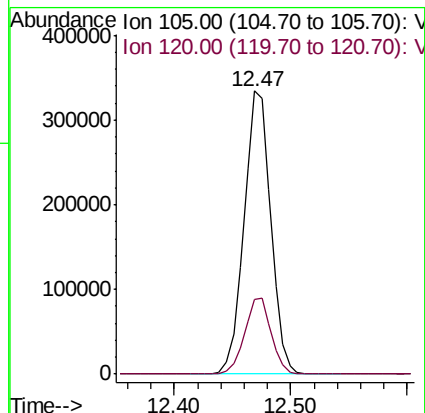
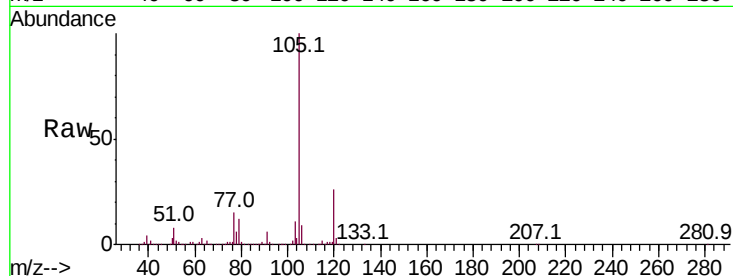
ClientSampleId :

Tot Ion:105 Resp: 534347

Ion Ratio Lower Upper

105 100

120 26.6 13.4 40.1



#74

N-ethyl acetate

Concen: 23.720 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Tgt Ion: 43 Resp: 111824

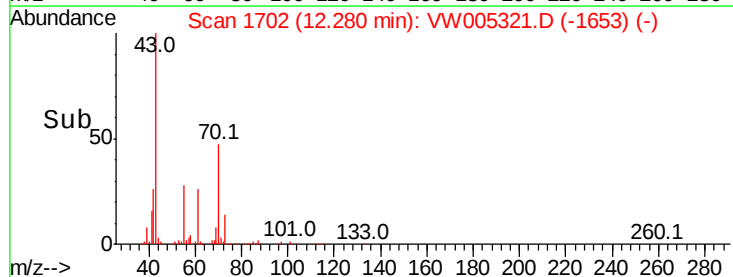
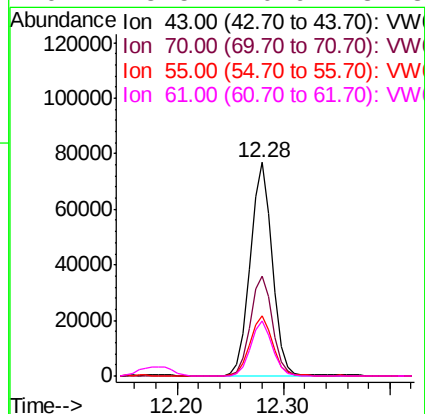
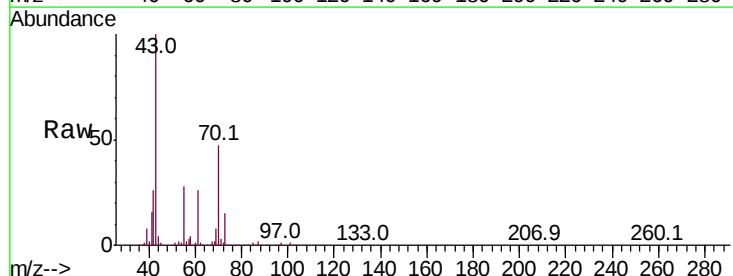
Ion Ratio Lower Upper

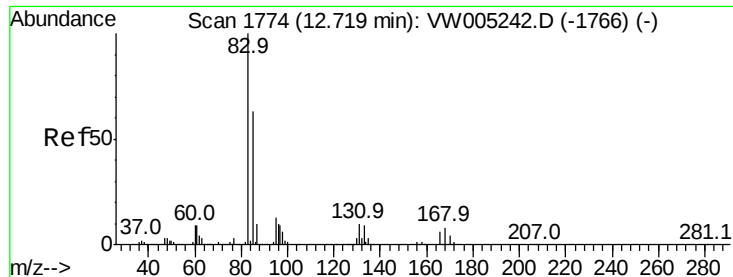
43 100

70 46.9 37.9 56.9

55 28.7 22.6 33.8

61 25.5 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 23.462 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

ClientSampleId :

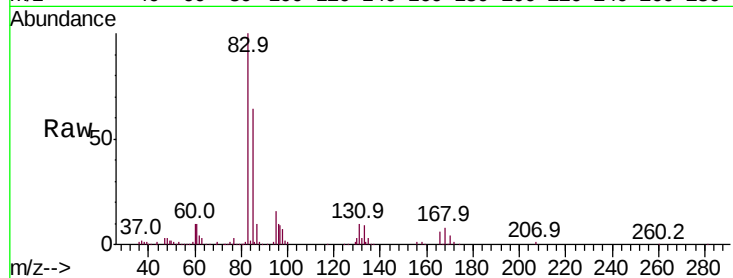
Tot Ion: 83 Resp: 87367

Ion Ratio Lower Upper

83 100

131 10.7 5.5 16.4

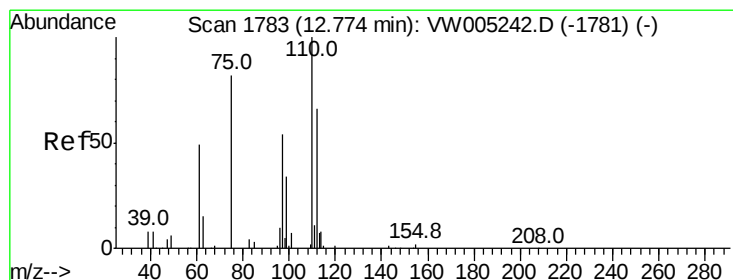
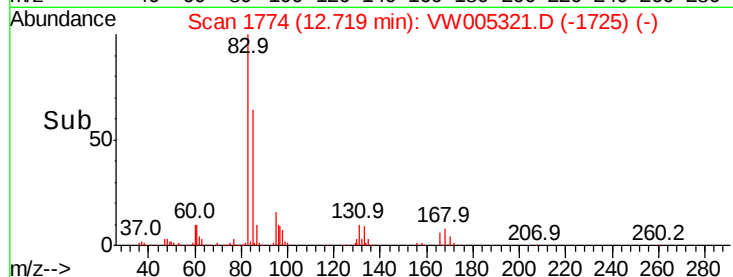
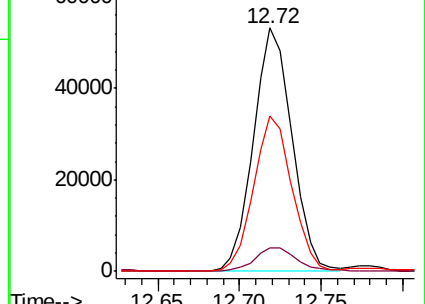
85 63.3 31.6 95.0



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: 42.467 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VW005321.D

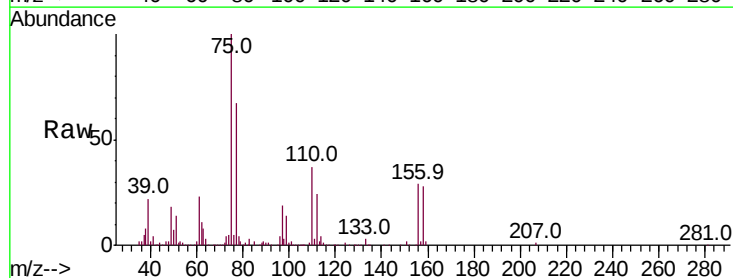
Acq: 12 Sep 2018 13:24

Tgt Ion: 75 Resp: 114547

Ion Ratio Lower Upper

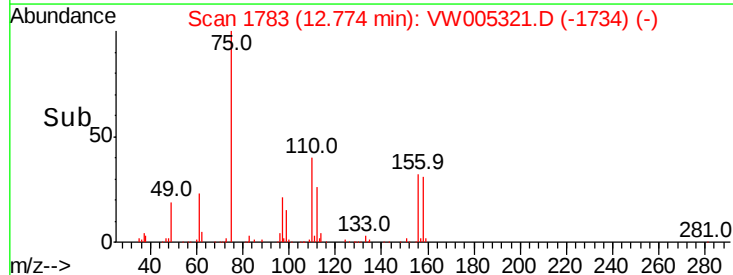
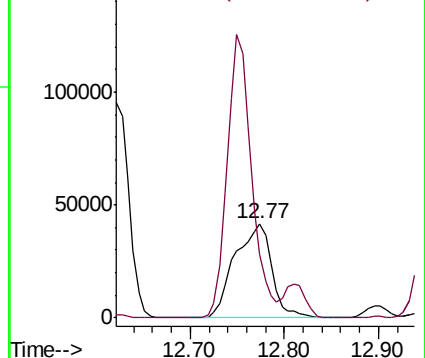
75 100

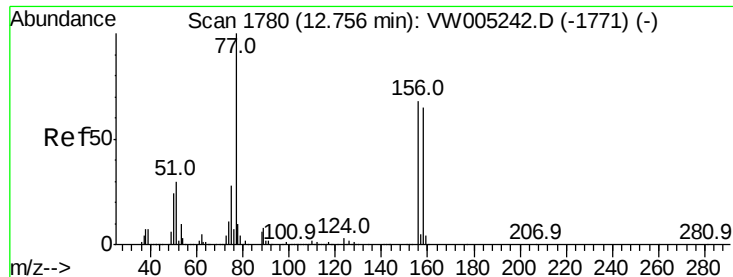
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

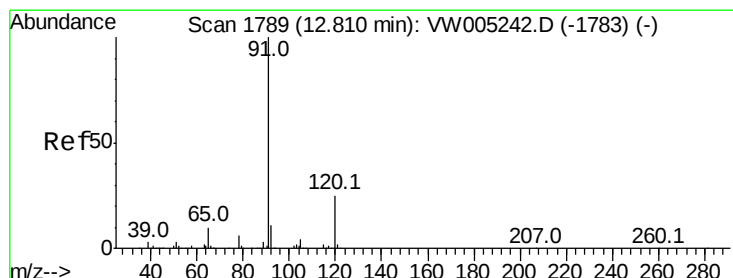
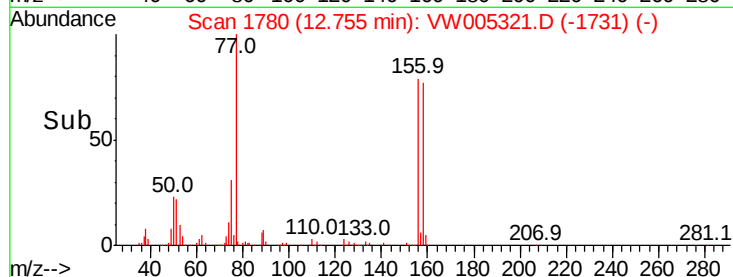
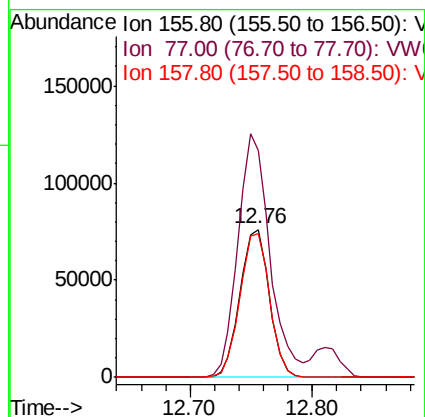
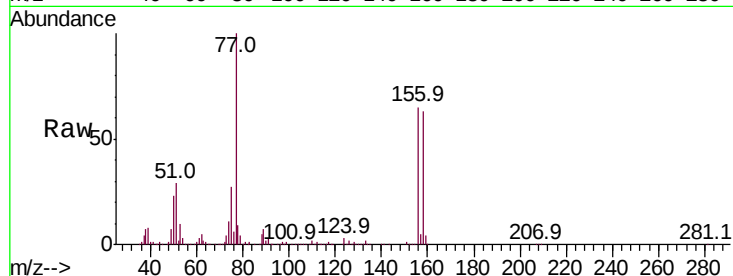




#77  
 Bromobenzene  
 Concen: 21.693 ug/l  
 RT: 12.76 min Scan# 1780  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

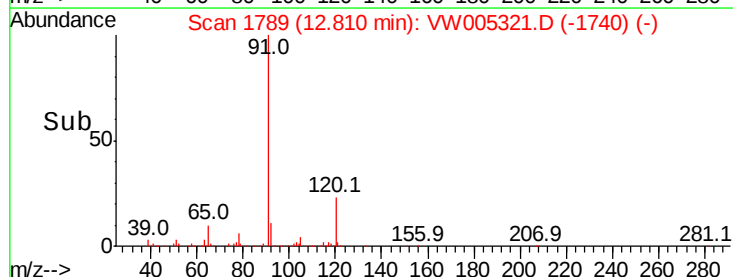
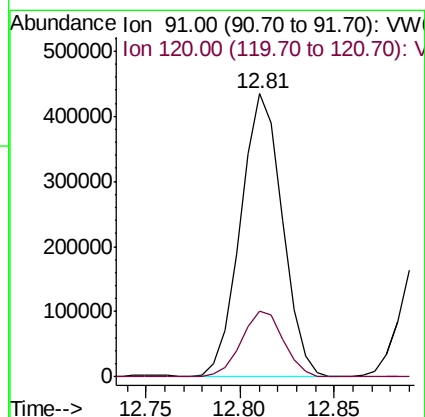
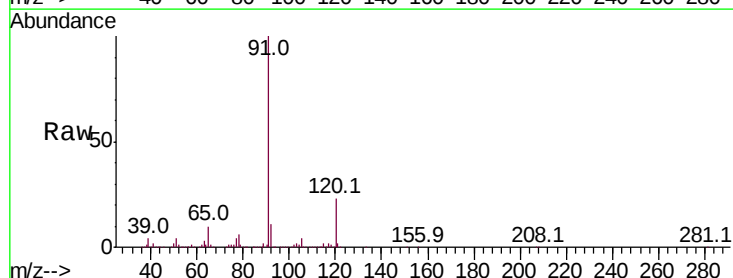
Instrument :  
 MSVOA\_W  
 ClientSampleId :

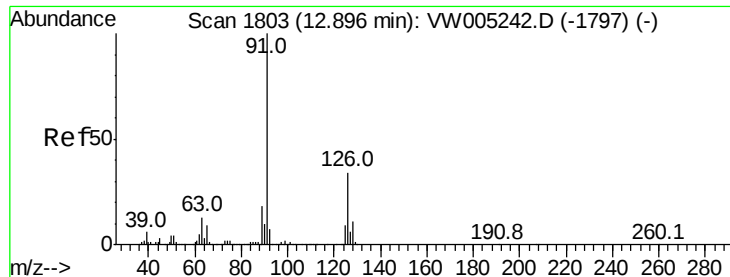
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 178.9 | 86.3  | 258.8 |
| 158     | 98.1  | 48.6  | 145.8 |



#78  
 n-propylbenzene  
 Concen: 22.445 ug/l  
 RT: 12.81 min Scan# 1789  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 23.3  | 12.0  | 36.0  |





#79

2-Chlorotoluene

Concen: 22.042 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

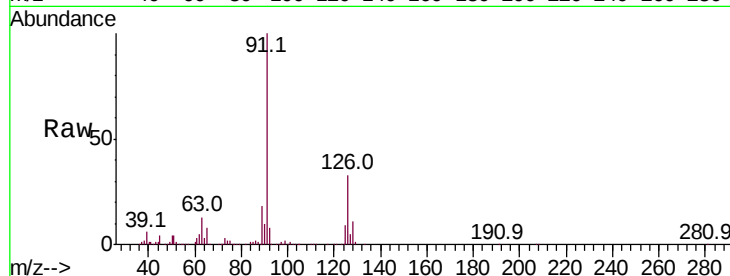
ClientSampleId :

Tot Ion: 91 Resp: 376159

Ion Ratio Lower Upper

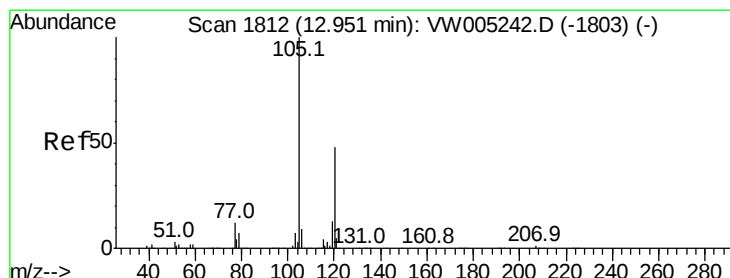
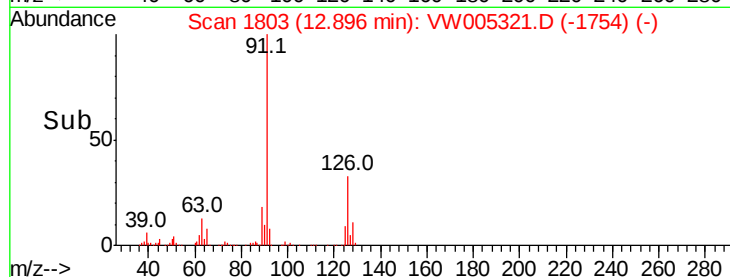
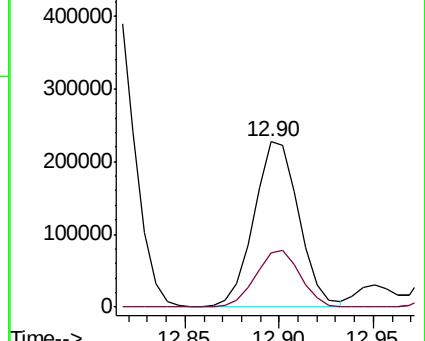
91 100

126 34.3 17.2 51.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 22.272 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW005321.D

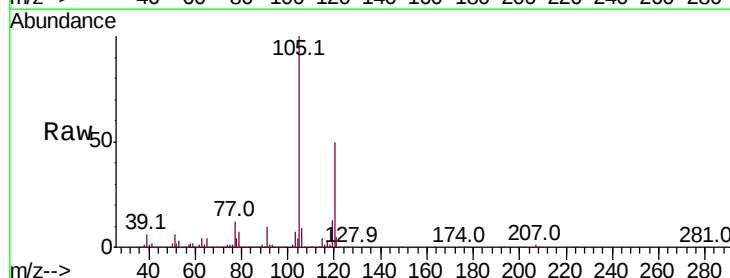
Acq: 12 Sep 2018 13:24

Tgt Ion:105 Resp: 469925

Ion Ratio Lower Upper

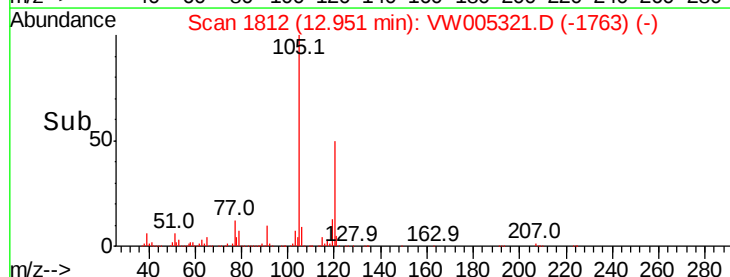
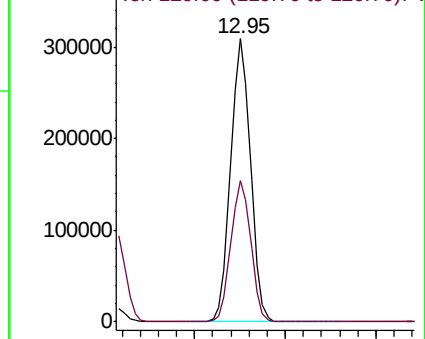
105 100

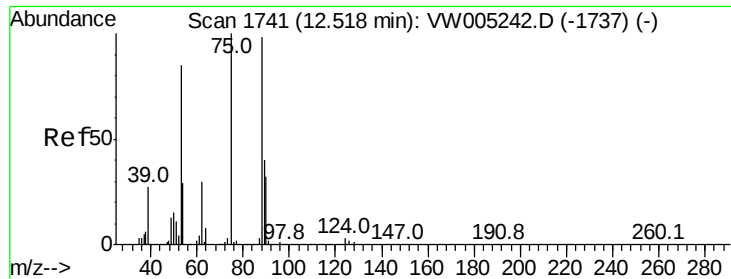
120 50.0 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 22.962 ug/l

RT: 12.52 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

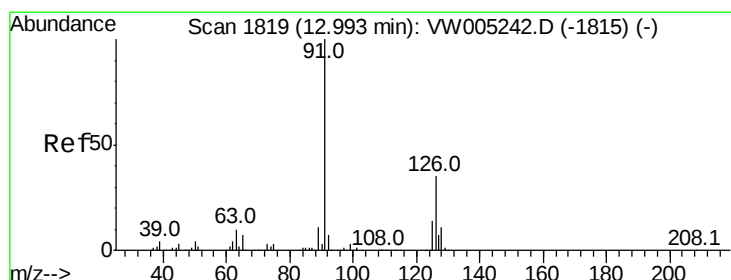
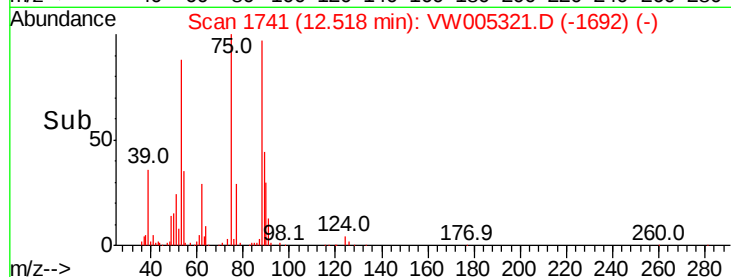
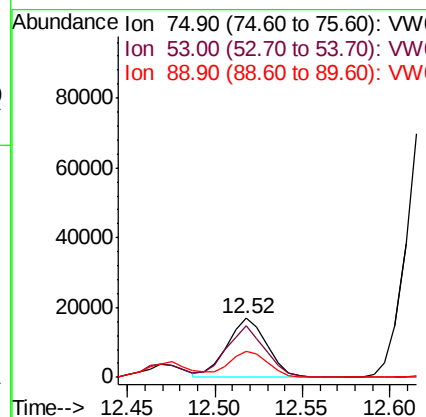
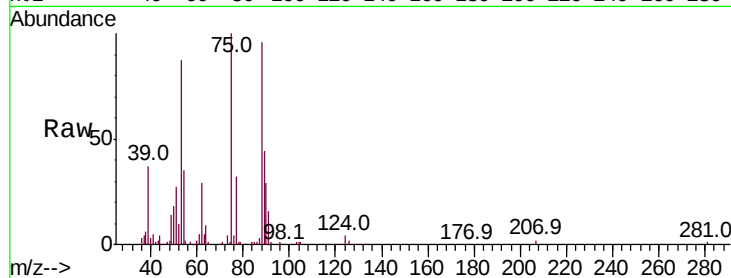
Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 75 Resp: 26409

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 53  | 85.3  | 67.0  | 100.6 |
| 89  | 44.4  | 37.0  | 55.4  |



#82

4-Chlorotoluene

Concen: 22.296 ug/l

RT: 12.99 min Scan# 1819

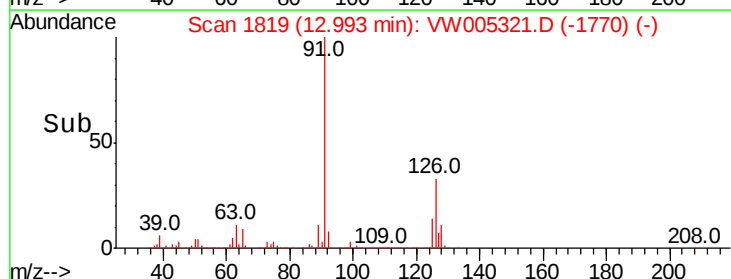
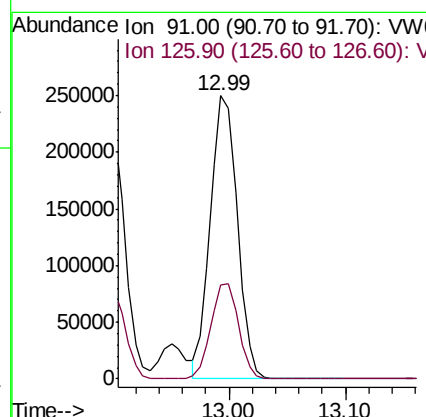
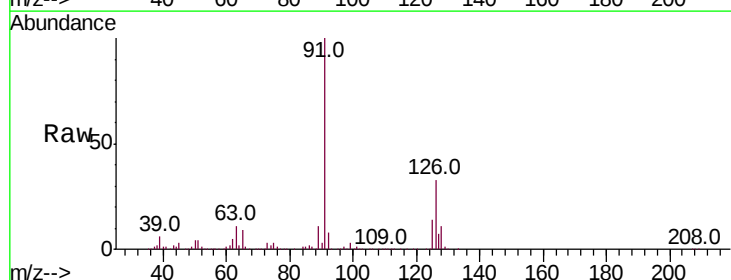
Delta R.T. -0.00 min

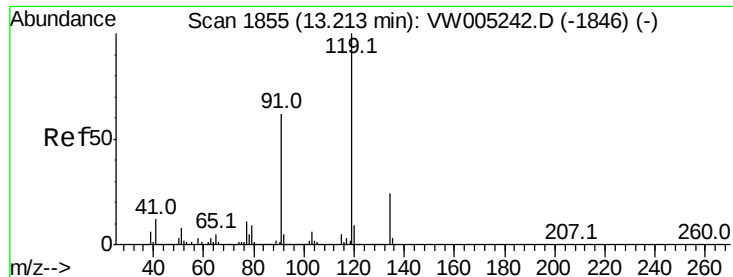
Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Tgt Ion: 91 Resp: 399932

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 34.4  | 17.5  | 52.5  |

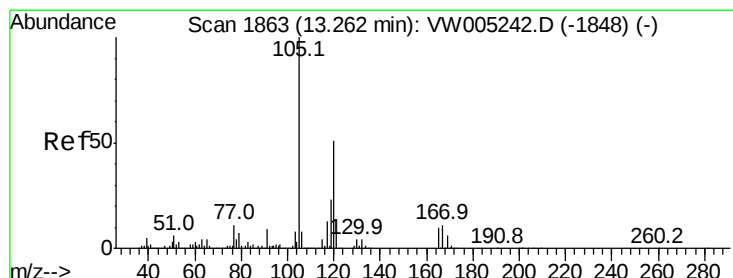
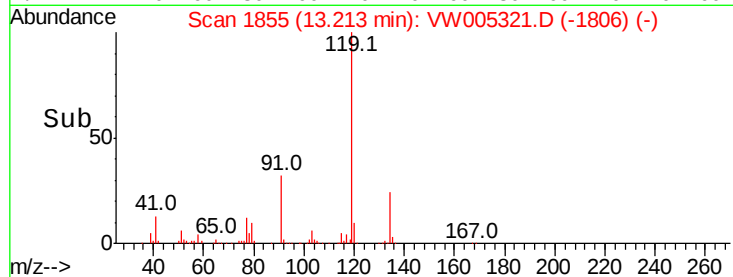
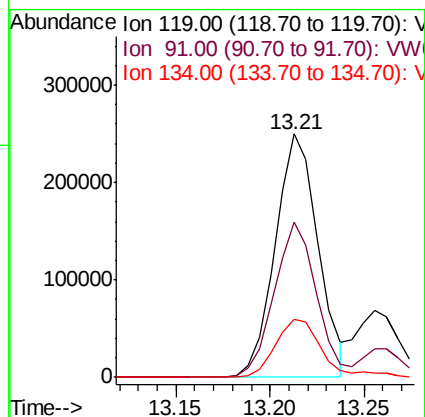
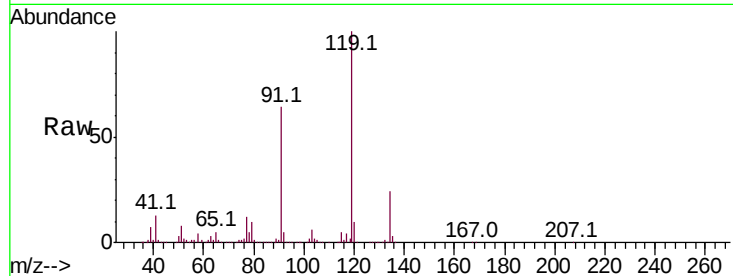




#83  
 tert-Butylbenzene  
 Concen: 21.273 ug/l  
 RT: 13.21 min Scan# 1855  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

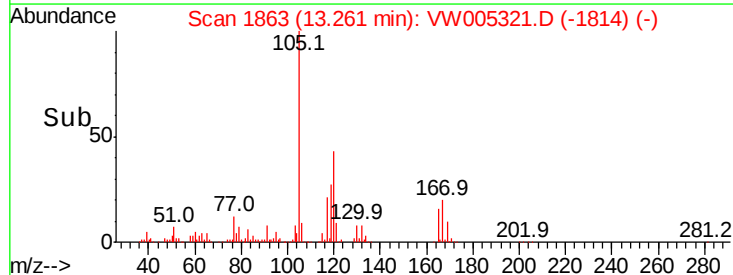
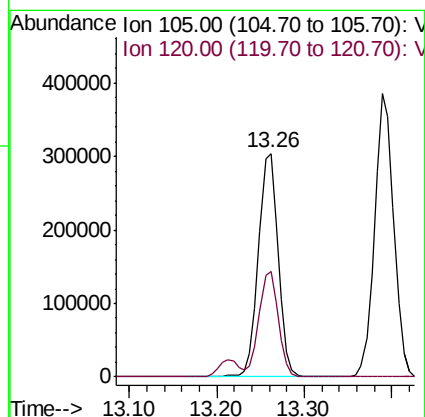
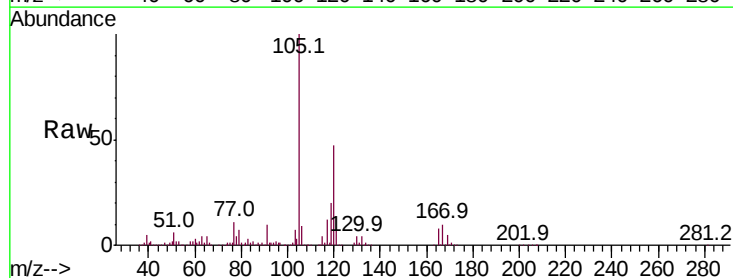
Instrument :  
 MSVOA\_W  
 ClientSampleId :

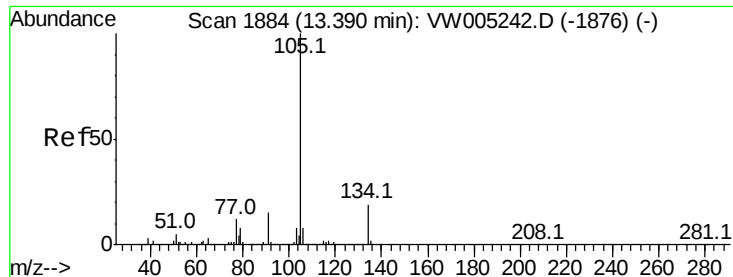
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 63.3  | 31.7  | 95.1  |
| 134     | 26.1  | 13.0  | 38.9  |



#84  
 1,2,4-Trimethylbenzene  
 Concen: 22.443 ug/l  
 RT: 13.26 min Scan# 1863  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 46.3  | 23.4  | 70.3  |





#85

sec-Butylbenzene

Concen: 22.086 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

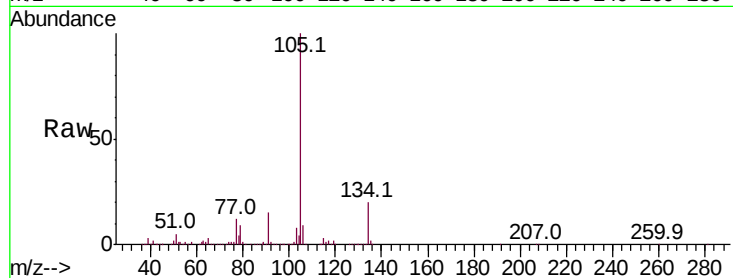
ClientSampleId :

Tot Ion:105 Resp: 585724

Ion Ratio Lower Upper

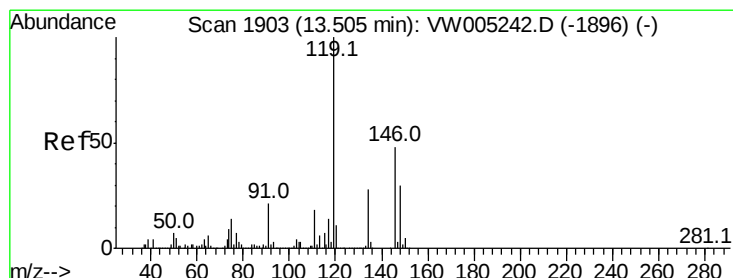
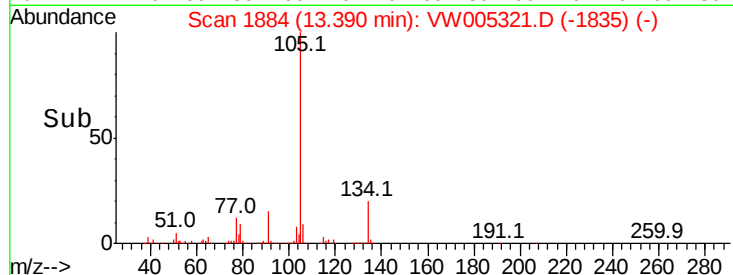
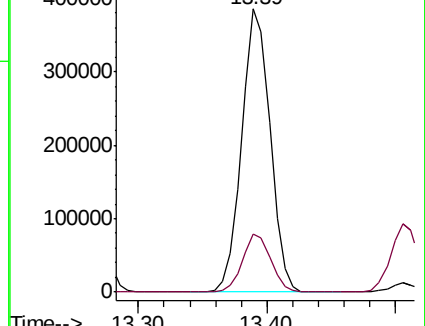
105 100

134 20.2 9.9 29.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.260 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

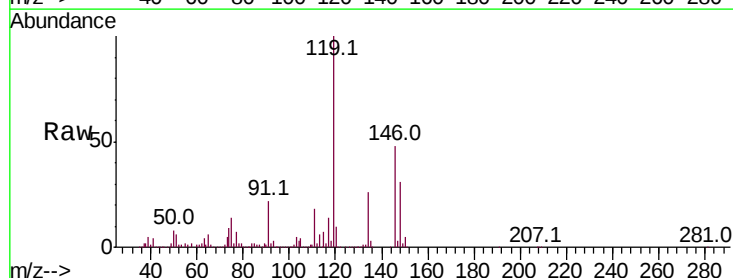
Tgt Ion:119 Resp: 522594

Ion Ratio Lower Upper

119 100

134 26.3 13.2 39.5

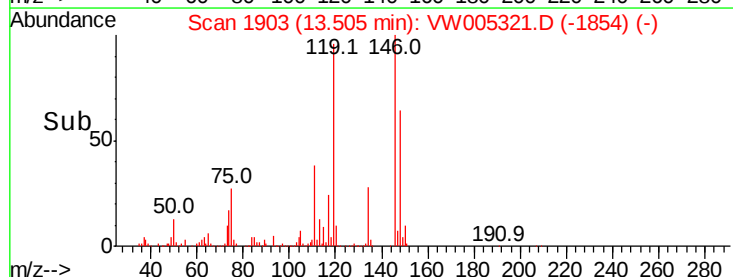
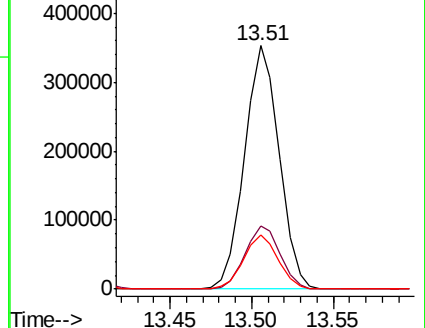
91 22.0 10.7 32.1

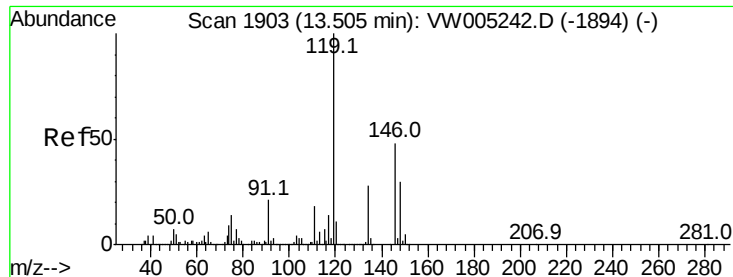


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

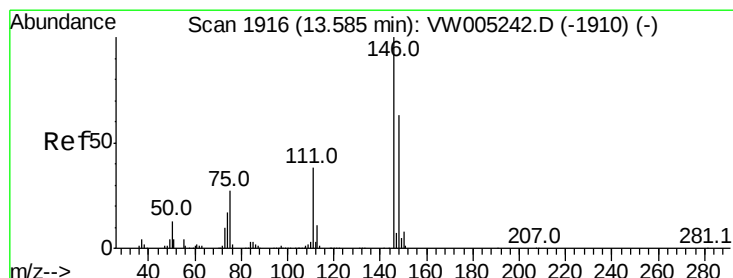
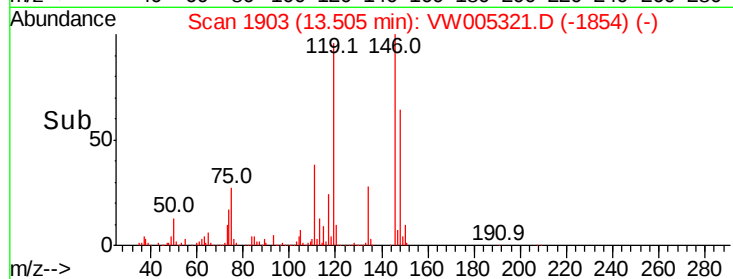
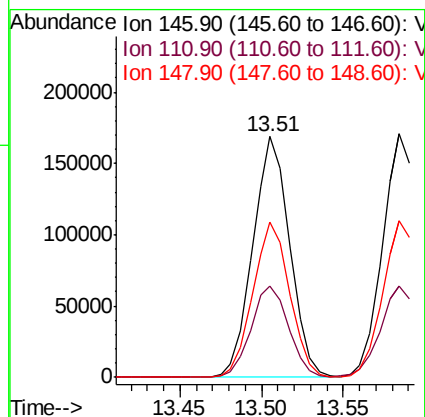
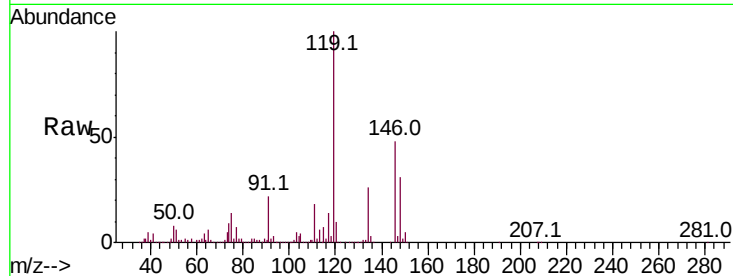




#87  
 1,3-Dichlorobenzene  
 Concen: 21.662 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

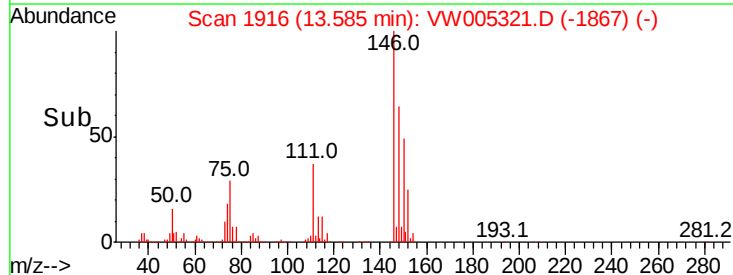
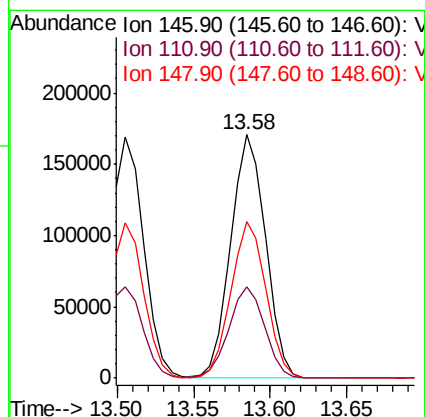
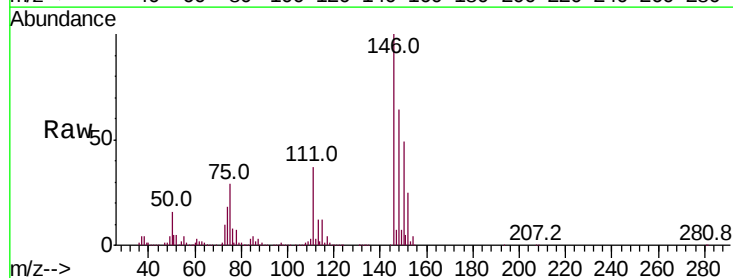
Instrument :  
 MSVOA\_W  
 ClientSampleId :

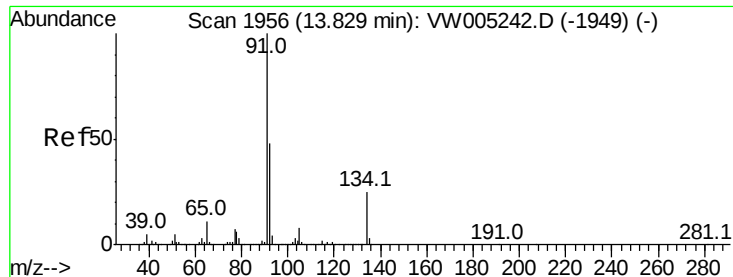
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.6  | 18.8  | 56.3  |
| 148     | 64.4  | 31.6  | 94.8  |



#88  
 1,4-Dichlorobenzene  
 Concen: 22.392 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.5  | 19.1  | 57.3  |
| 148     | 64.2  | 32.3  | 96.9  |





#89

n-Butylbenzene

Concen: 22.100 ug/l

RT: 13.83 min Scan# 1957

Delta R.T. 0.01 min

Lab File: VW005321.D

Acq: 12 Sep 2018 13:24

Instrument :

MSVOA\_W

ClientSampleId :

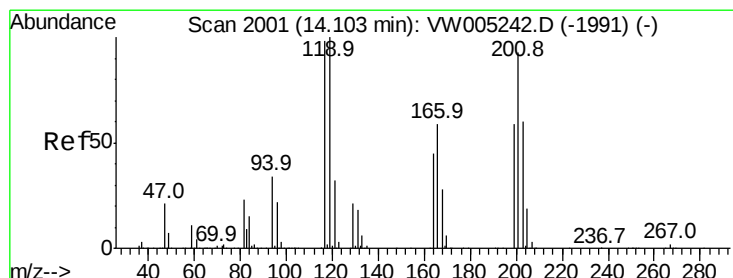
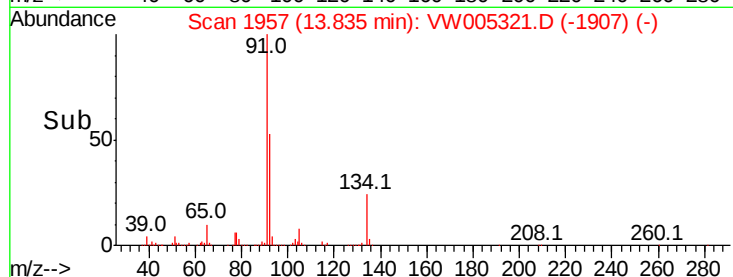
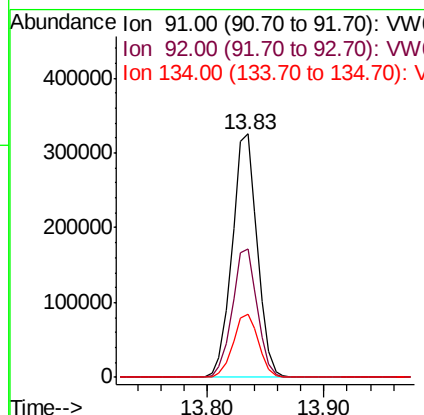
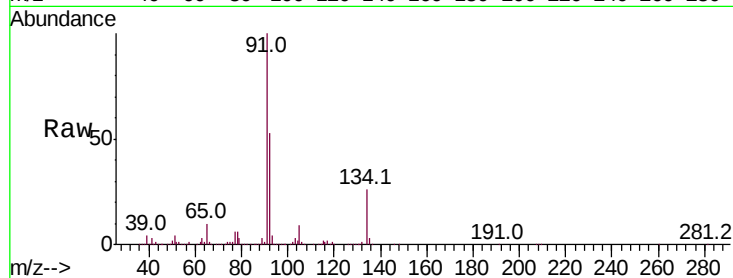
Tot Ion: 91 Resp: 487746

Ion Ratio Lower Upper

91 100

92 52.4 25.8 77.3

134 26.1 13.6 40.8



#90

Hexachloroethane

Concen: 20.652 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. -0.00 min

Lab File: VW005321.D

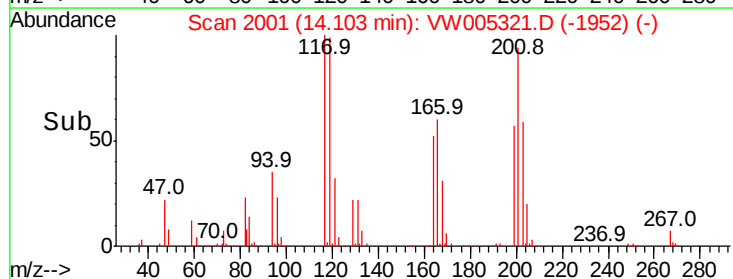
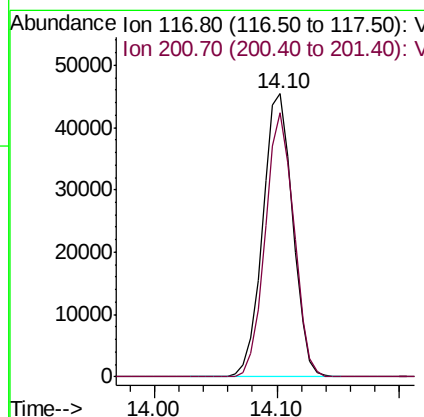
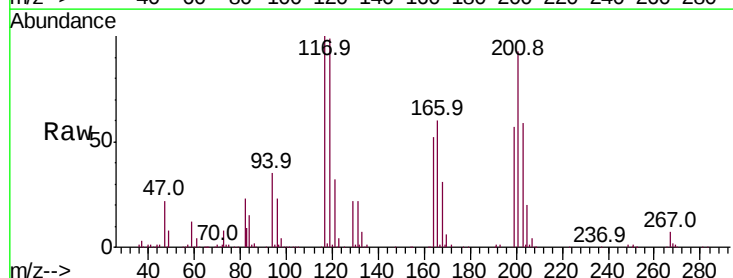
Acq: 12 Sep 2018 13:24

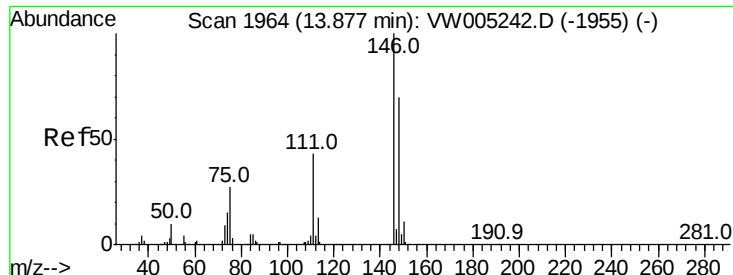
Tgt Ion: 117 Resp: 77679

Ion Ratio Lower Upper

117 100

201 88.9 44.0 132.1

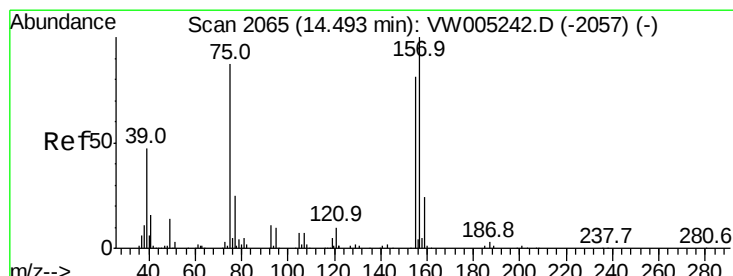
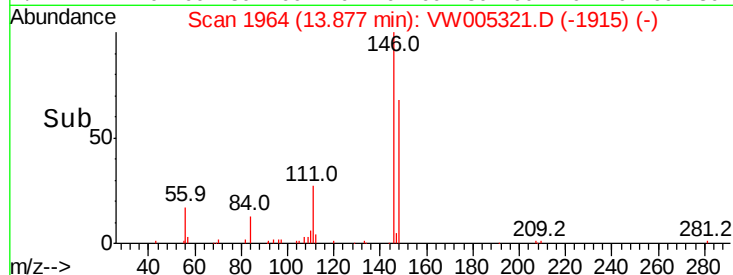
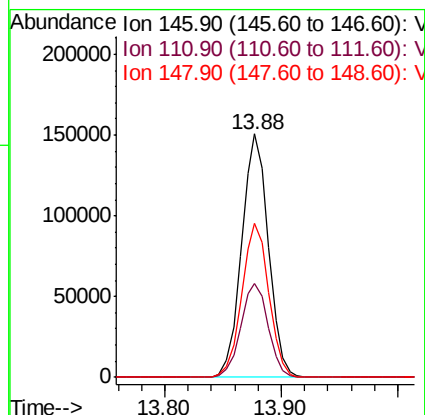
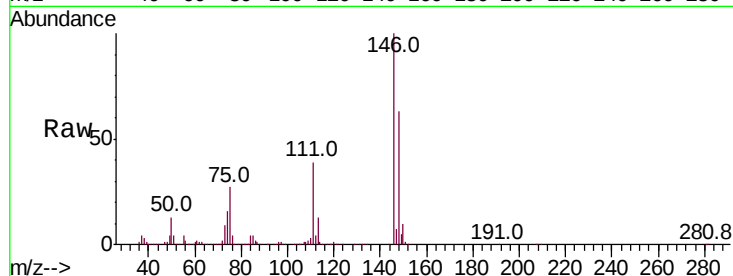




#91  
 1,2-Dichlorobenzene  
 Concen: 22.347 ug/l  
 RT: 13.88 min Scan# 1964  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

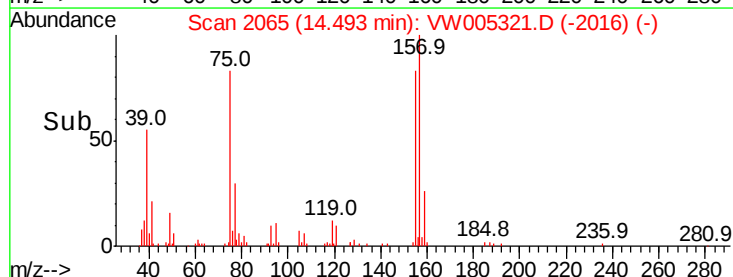
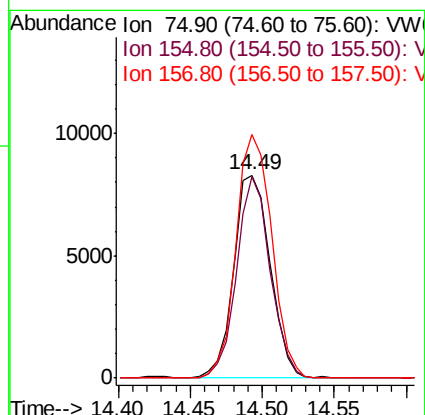
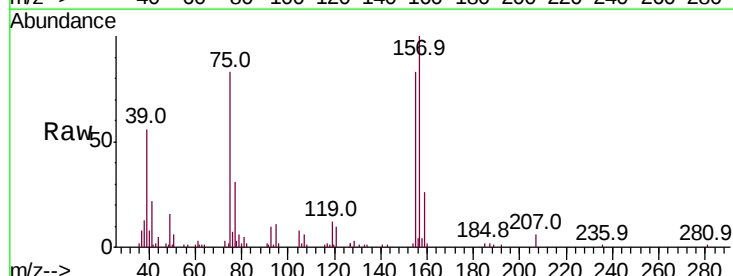
Instrument :  
 MSVOA\_W  
 ClientSampleId :

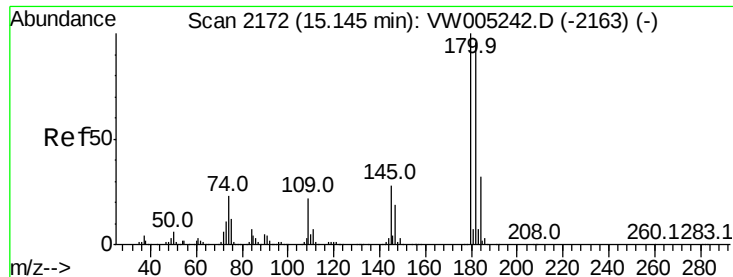
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.7  | 20.5  | 61.5  |
| 148     | 63.8  | 32.7  | 98.1  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 23.735 ug/l  
 RT: 14.49 min Scan# 2065  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 90.8  | 47.4  | 142.2 |
| 157     | 116.9 | 59.4  | 178.2 |

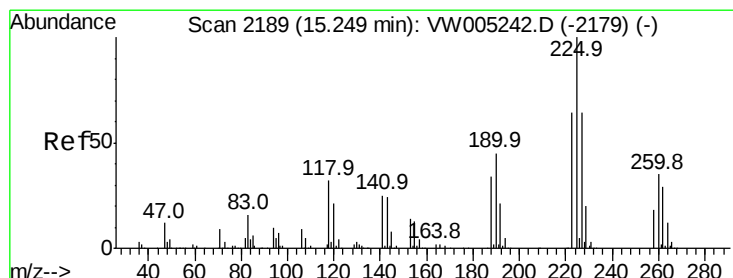
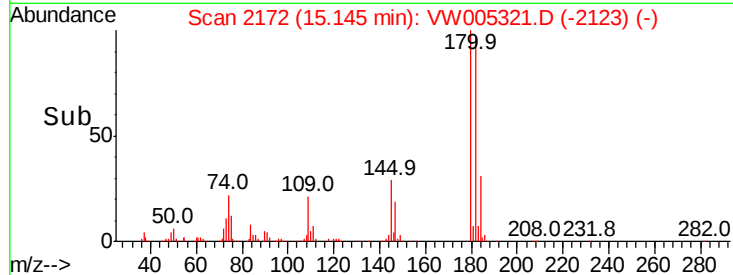
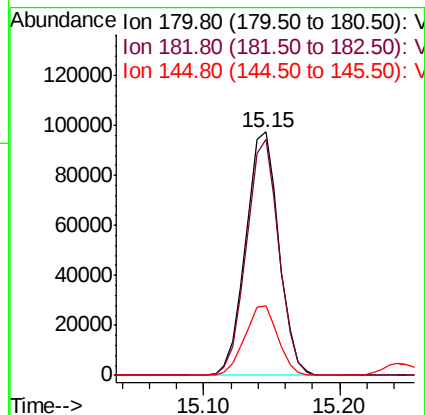
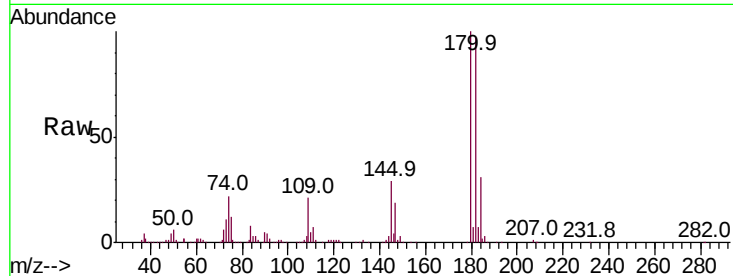




#93  
 1,2,4-Trichlorobenzene  
 Concen: 21.764 ug/l  
 RT: 15.15 min Scan# 2172  
 Delta R.T. -0.00 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

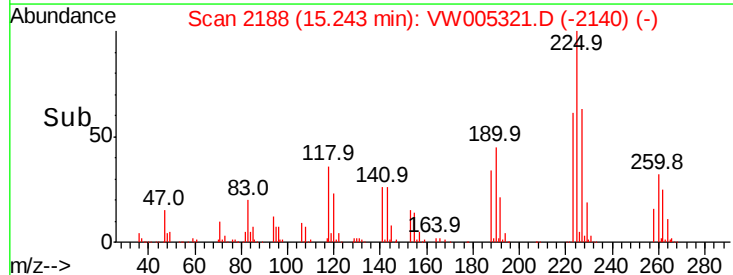
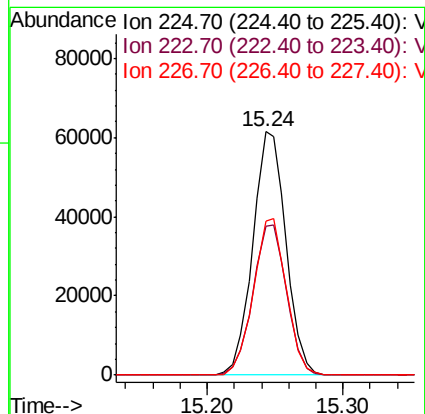
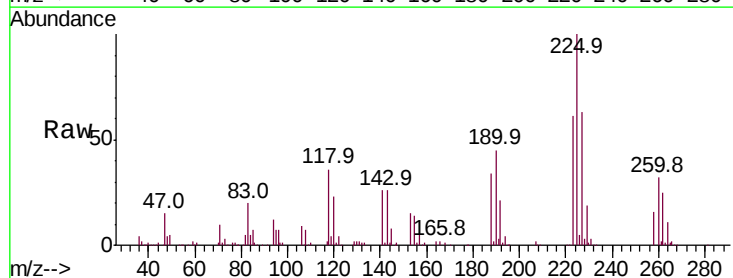
Instrument :  
 MSVOA\_W  
 ClientSampleId :

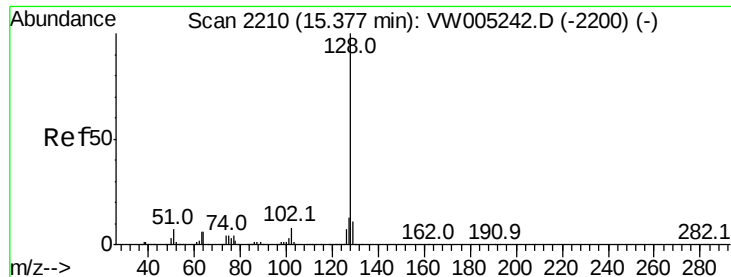
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 48.1  | 144.4 |
| 145     | 28.9  | 14.5  | 43.6  |



#94  
 Hexachlorobutadiene  
 Concen: 21.462 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. -0.01 min  
 Lab File: VW005321.D  
 Acq: 12 Sep 2018 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.8  | 31.4  | 94.2  |
| 227     | 63.9  | 32.0  | 96.0  |

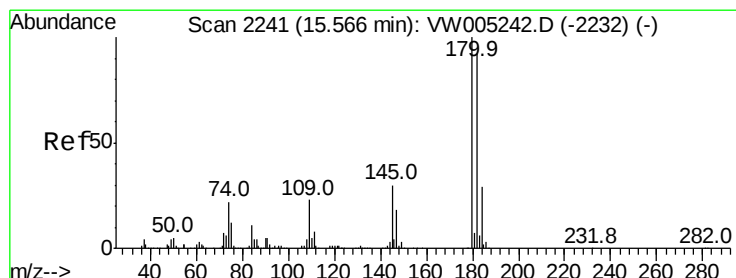
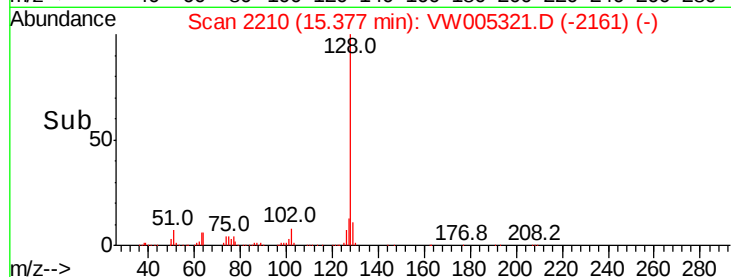
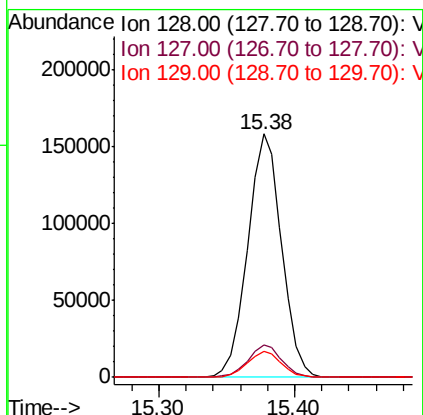
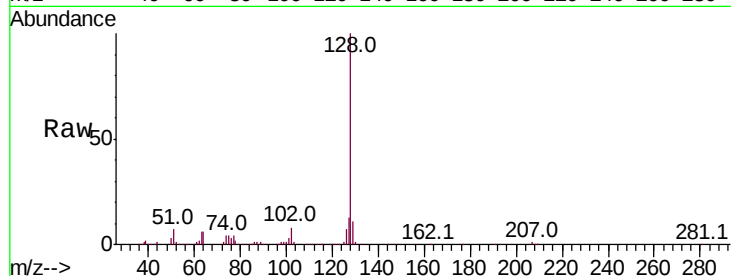




#95  
Naphthalene  
Concen: 22.346 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.2  | 10.3  | 15.5  |
| 129     | 11.0  | 8.8   | 13.2  |



#96  
1,2,3-Trichlorobenzene  
Concen: 22.090 ug/l  
RT: 15.57 min Scan# 2241  
Delta R.T. -0.00 min  
Lab File: VW005321.D  
Acq: 12 Sep 2018 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.2  | 47.2  | 141.6 |
| 145     | 31.5  | 15.2  | 45.6  |

