

Data File : VW008640.D  
Acq On : 13 Feb 2019 15:11  
Operator : SY/VA  
Sample : VSTDIC020  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

Quant Time: Feb 14 03:47:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W021319S.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 14 03:43:11 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 422548   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 651566   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 578243   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 307312   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 80470    | 18.32 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 36.64% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 76956    | 19.02 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 38.04% |      |
| 50) Toluene-d8            | 10.32  | 98  | 287871   | 18.46 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 36.92% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 108783   | 18.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 37.04% |      |

#### Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 52806  | 19.512  | ug/l | 98     |
| 3) Chloromethane              | 2.21 | 50  | 74263  | 19.034  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.36 | 62  | 100702 | 19.650  | ug/l | 93     |
| 5) Bromomethane               | 2.77 | 94  | 84132  | 20.746  | ug/l | 98     |
| 6) Chloroethane               | 2.93 | 64  | 78744  | 20.649  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 73319  | 18.369  | ug/l | 93     |
| 8) Diethyl Ether              | 3.67 | 74  | 47206  | 19.818  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 87353  | 20.709  | ug/l | 98     |
| 10) Methyl Iodide             | 4.26 | 142 | 135158 | 20.529  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.17 | 59  | 34771  | 100.832 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 84559  | 20.498  | ug/l | 95     |
| 13) Acrolein                  | 3.88 | 56  | 37252  | 102.870 | ug/l | 99     |
| 14) Allyl chloride            | 4.65 | 41  | 138457 | 20.202  | ug/l | 98     |
| 15) Acrylonitrile             | 5.37 | 53  | 99401  | 99.145  | ug/l | 98     |
| 16) Acetone                   | 4.12 | 43  | 88656  | 88.994  | ug/l | 96     |
| 17) Carbon Disulfide          | 4.37 | 76  | 251205 | 20.179  | ug/l | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 42110  | 18.435  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 146692 | 20.257  | ug/l | 100    |
| 20) Methylene Chloride        | 4.91 | 84  | 97482  | 17.041  | ug/l | 87     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96  | 91371  | 20.225  | ug/l | 96     |
| 22) Diisopropyl ether         | 6.31 | 45  | 276885 | 20.073  | ug/l | 100    |
| 23) Vinyl Acetate             | 6.25 | 43  | 865978 | 96.728  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 160603 | 20.177  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 134426 | 95.233  | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 98753  | 19.860  | ug/l | 96     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96  | 98034  | 20.068  | ug/l | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 64843  | 19.297  | ug/l | 94     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 87308  | 93.841  | ug/l | 95     |
| 30) Chloroform                | 7.67 | 83  | 160808 | 20.162  | ug/l | 95     |
| 31) Cyclohexane               | 7.95 | 56  | 161049 | 20.046  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 135201 | 20.072  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 8.07 | 75  | 132411 | 20.227  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 63410  | 20.081  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 131089 | 20.139  | ug/l | 97     |

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Quant Title : SW846 8260  
QLast Update : Thu Feb 14 03:43:11 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.33  | 83   | 166272   | 20.082  | ug/l   | 93       |
| 40) Benzene                    | 8.32  | 78   | 362955   | 20.302  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.48  | 41   | 35544    | 20.006  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 110861   | 19.991  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 121632   | 19.317  | ug/l   | 97       |
| 44) Trichloroethene            | 9.09  | 130  | 99440    | 20.060  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 87303    | 19.732  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 47314    | 19.412  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.64  | 83   | 114531   | 19.553  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 54342    | 18.623  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.44  | 88   | 15172    | 389.975 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 305602   | 94.482  | ug/l   | 99       |
| 52) Toluene                    | 10.38 | 92   | 232618   | 20.169  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 119853   | 19.477  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 139474   | 19.994  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 65155    | 19.483  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 85069    | 19.157  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 119449   | 20.131  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 216276   | 101.526 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 213185   | 93.822  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 79762    | 19.933  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 65787    | 19.979  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.86 | 164  | 87673    | 20.389  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 253961   | 20.377  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 87821    | 19.891  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 446046   | 20.091  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 346112   | 40.068  | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 164290   | 20.121  | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 259181   | 19.434  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 46038    | 19.352  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 448201   | 19.580  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.27 | 43   | 116120   | 18.759  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 77437    | 19.443  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 103492   | 28.216  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 107550   | 20.439  | ug/l   | 93       |
| 78) n-propylbenzene            | 12.80 | 91   | 537785   | 19.772  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 306257   | 19.923  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 378771   | 19.921  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 21280    | 17.142  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 320230   | 19.657  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 327869   | 19.859  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 384292   | 19.665  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 480056   | 19.970  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 422860   | 19.663  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 209138   | 19.606  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 208537   | 19.837  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.83 | 91   | 405512   | 19.843  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 73316    | 19.513  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 187750   | 19.866  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 12740    | 18.408  | ug/l   | 96       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW021319\  
Quantitation Report (Not Reviewed)

Data File : VW008640.D  
Acq On : 13 Feb 2019 15:11  
Operator : SY/VA  
Sample : VSTDICC020  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC020

Quant Time: Feb 14 03:47:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W021319S.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 14 03:43:11 2019  
Response via : Initial Calibration

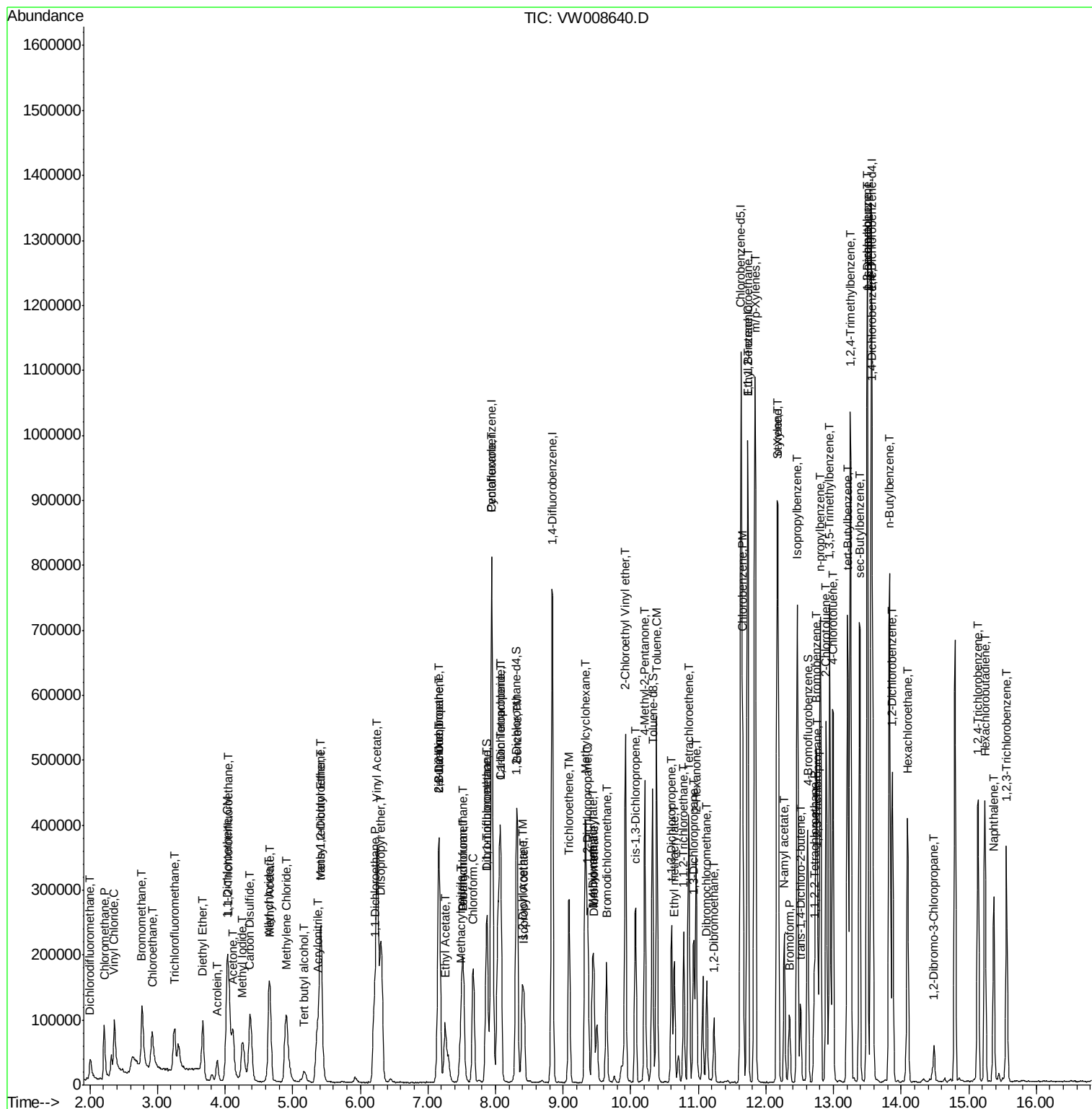
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 140608   | 20.901 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 80924    | 20.665 | ug/l  | 97       |
| 95) Naphthalene            | 15.37 | 128  | 242791   | 20.138 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 119853   | 20.761 | ug/l  | 100      |

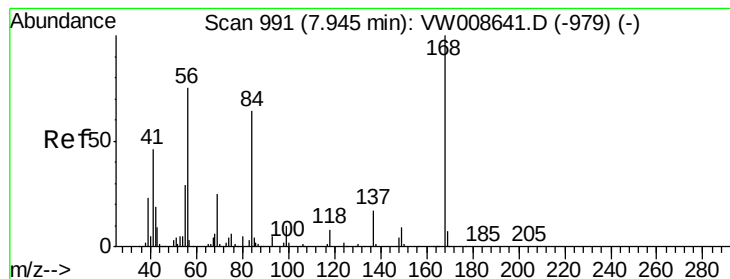
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

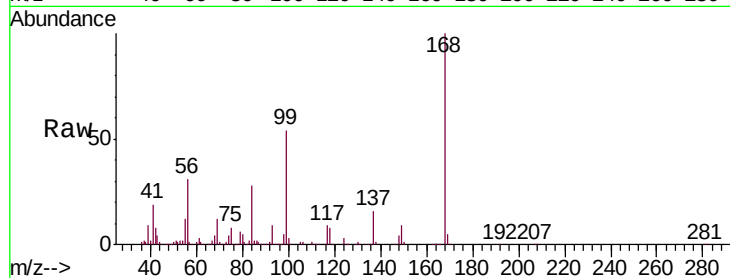
VSTDIC020

Tgt Ion:168 Resp: 422548

Ion Ratio Lower Upper

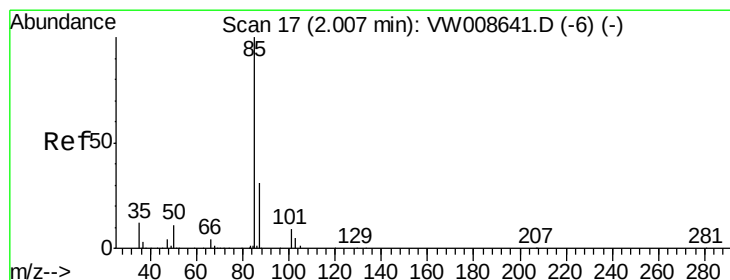
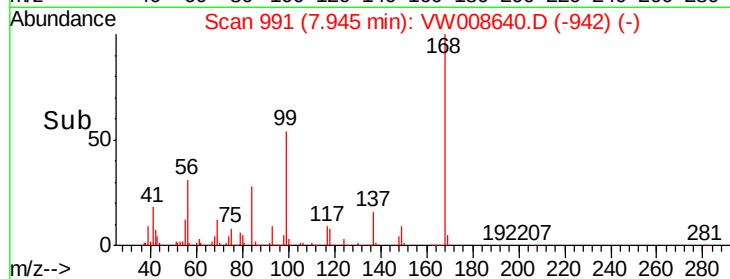
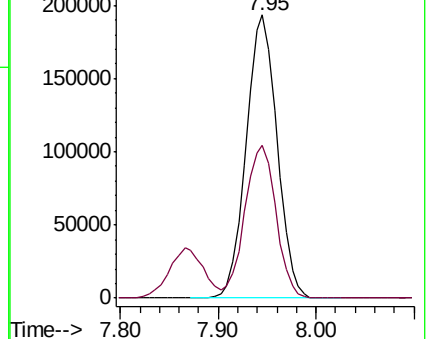
168 100

99 53.9 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 19.512 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008640.D

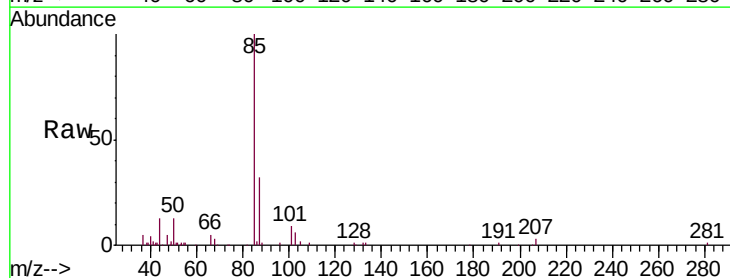
Acq: 13 Feb 2019 15:11

Tgt Ion: 85 Resp: 52806

Ion Ratio Lower Upper

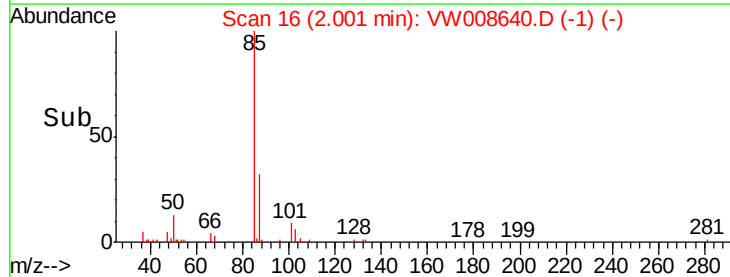
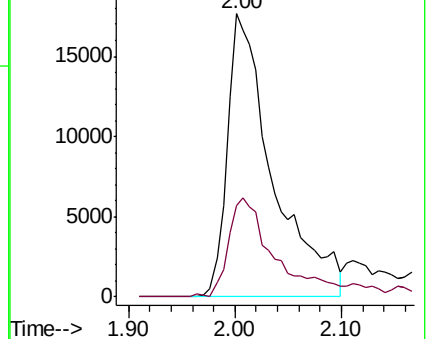
85 100

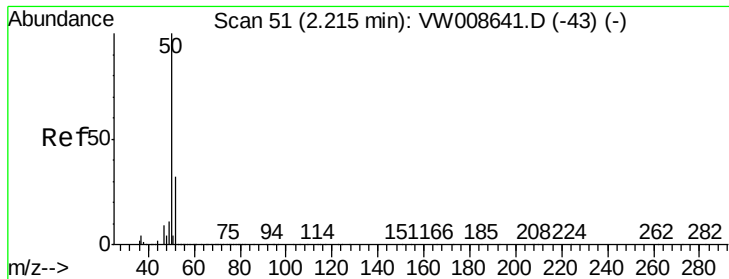
87 32.2 15.4 46.4



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 19.034 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

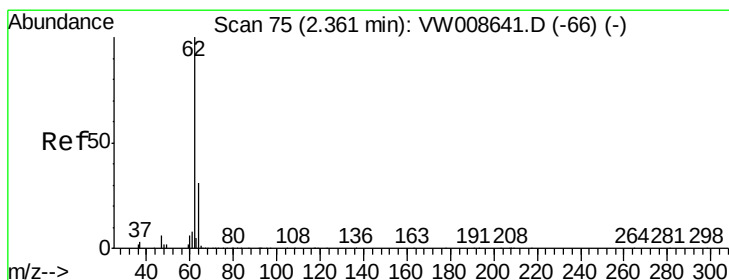
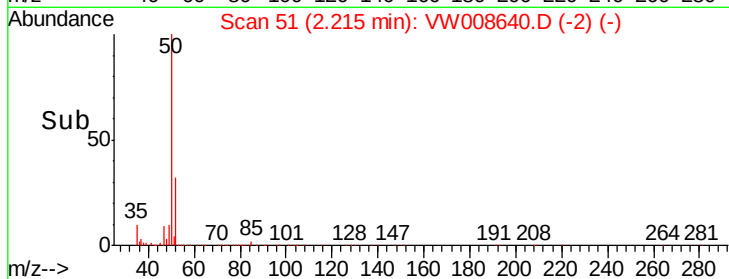
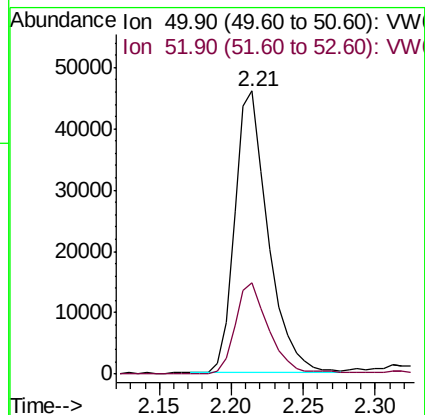
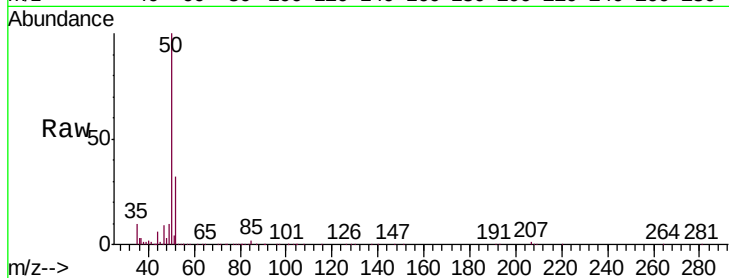
VSTDIC020

Tgt Ion: 50 Resp: 74263

Ion Ratio Lower Upper

50 100

52 32.5 26.0 39.0



#4

Vinyl Chloride

Concen: 19.650 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW008640.D

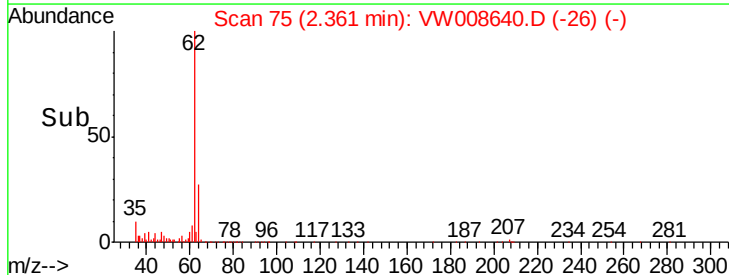
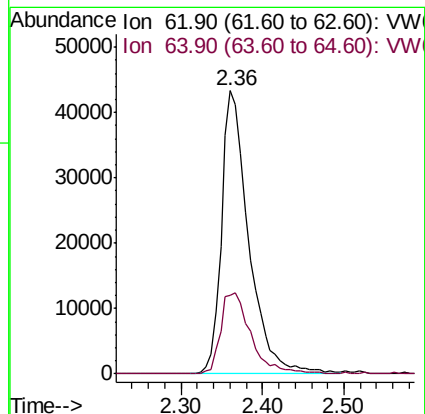
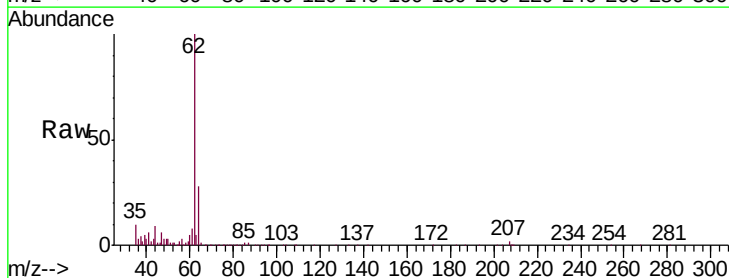
Acq: 13 Feb 2019 15:11

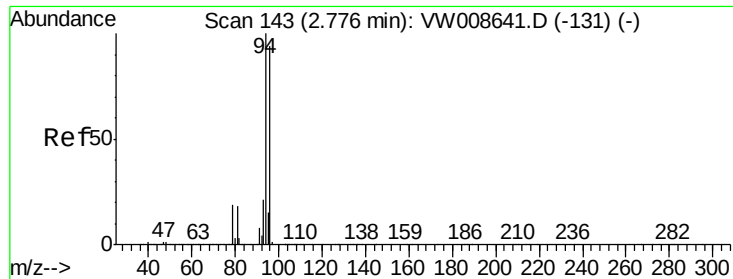
Tgt Ion: 62 Resp: 100702

Ion Ratio Lower Upper

62 100

64 27.4 25.1 37.7





#5

Bromomethane

Concen: 20.746 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

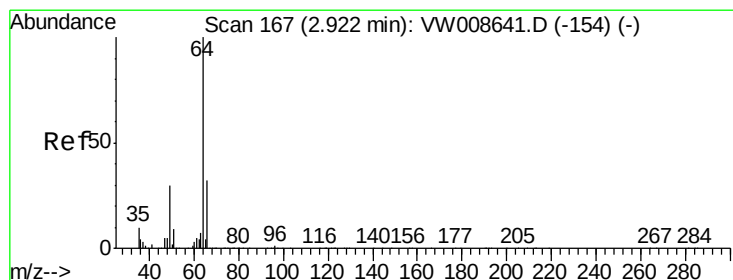
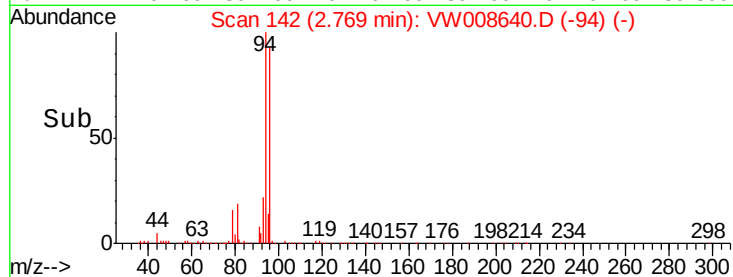
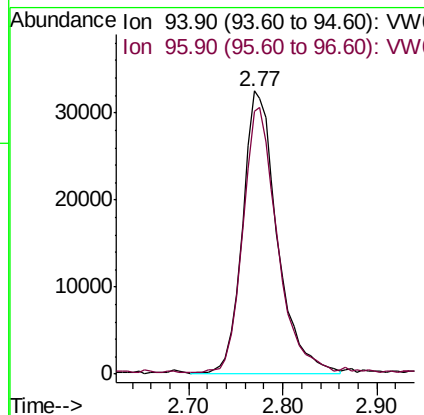
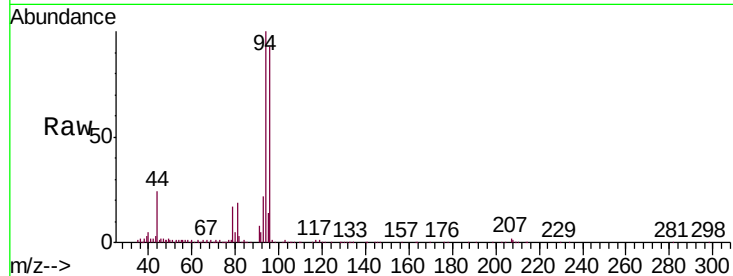
VSTDIC020

Tgt Ion: 94 Resp: 84132

Ion Ratio Lower Upper

94 100

96 92.4 75.5 113.3



#6

Chloroethane

Concen: 20.649 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW008640.D

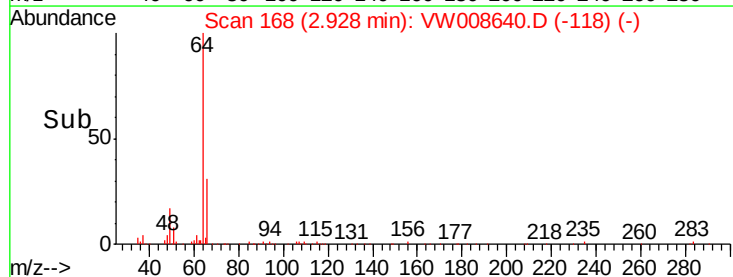
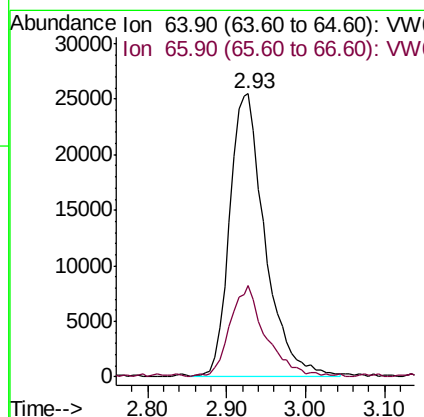
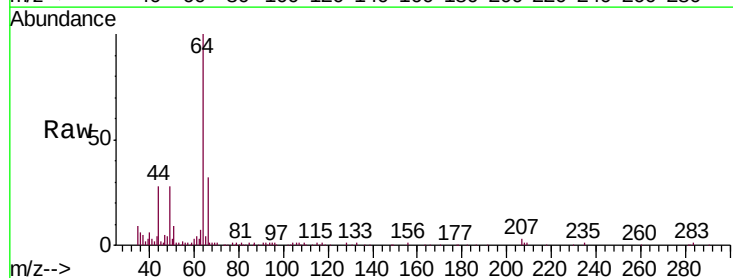
Acq: 13 Feb 2019 15:11

Tgt Ion: 64 Resp: 78744

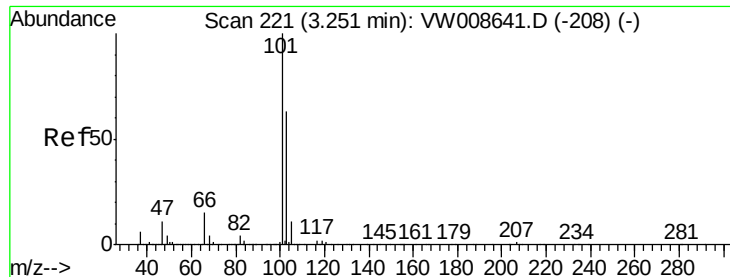
Ion Ratio Lower Upper

64 100

66 32.0 26.2 39.4





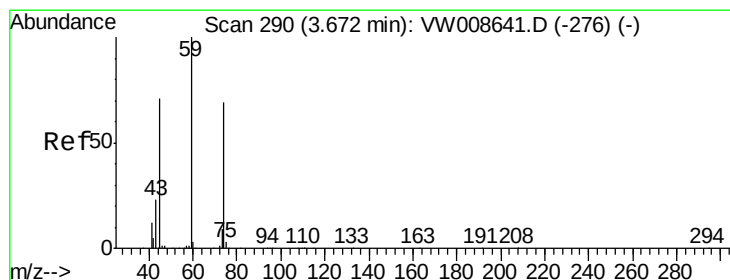
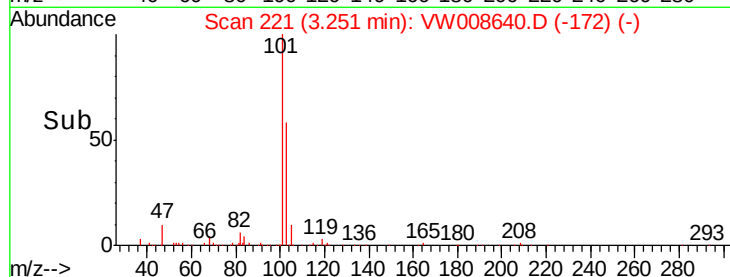
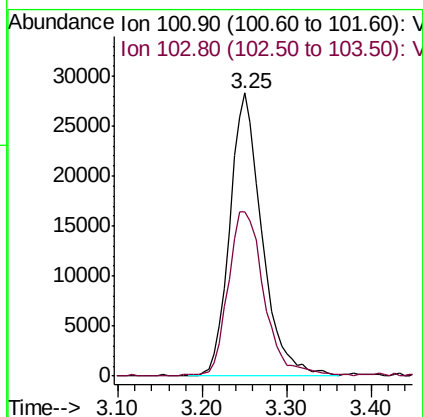
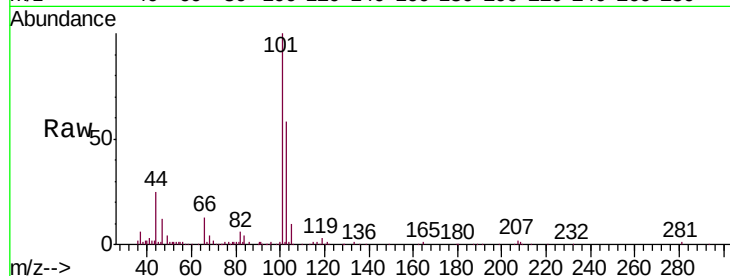


#7

Trichlorofluoromethane  
Concen: 18.369 ug/l  
RT: 3.25 min Scan# 221  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

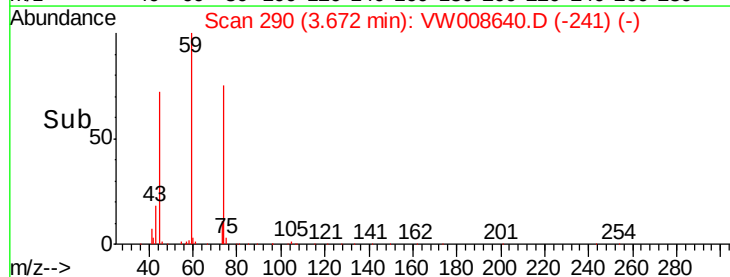
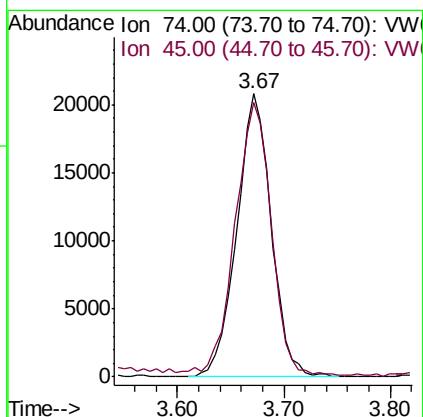
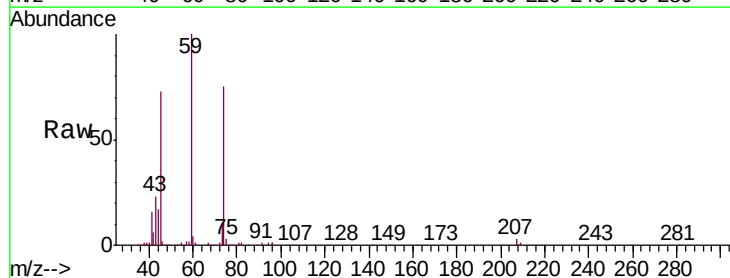
Tgt Ion:101 Resp: 73319  
Ion Ratio Lower Upper  
101 100  
103 57.4 50.5 75.7



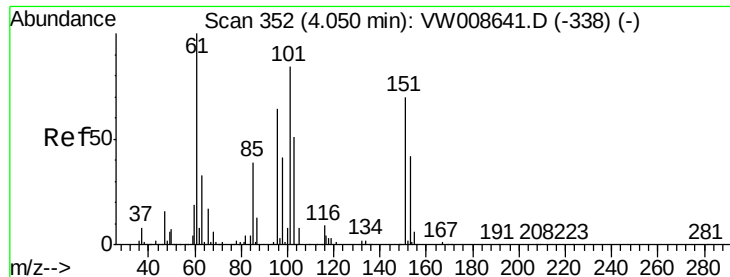
#8

Diethyl Ether  
Concen: 19.818 ug/l  
RT: 3.67 min Scan# 290  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 74 Resp: 47206  
Ion Ratio Lower Upper  
74 100  
45 101.2 50.2 150.6







#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.709 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

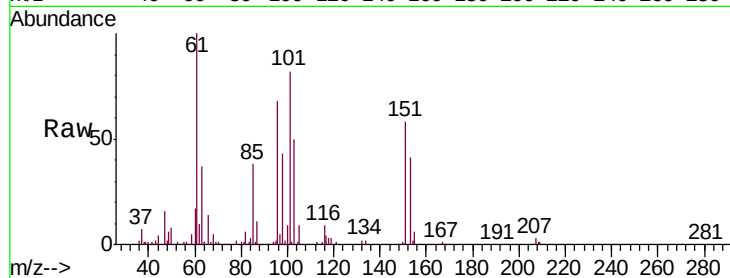
Tgt Ion:101 Resp: 87353

Ion Ratio Lower Upper

101 100

85 42.5 34.3 51.5

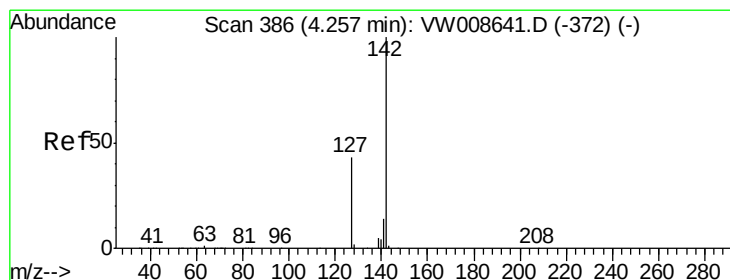
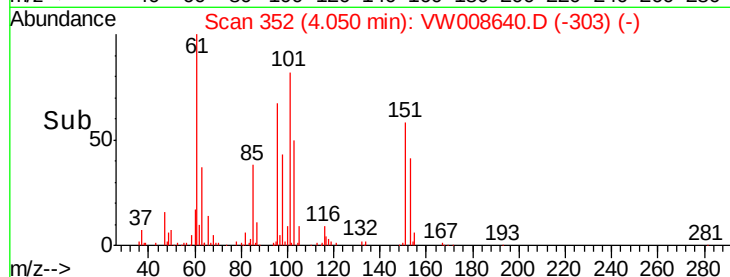
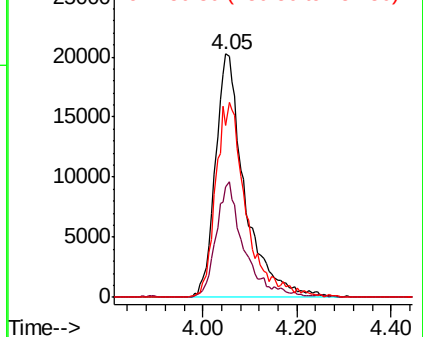
151 79.9 65.6 98.4



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: 20.529 ug/l

RT: 4.26 min Scan# 386

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

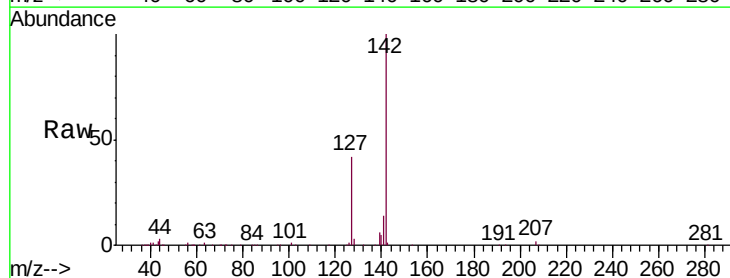
Tgt Ion:142 Resp: 135158

Ion Ratio Lower Upper

142 100

127 43.8 34.8 52.2

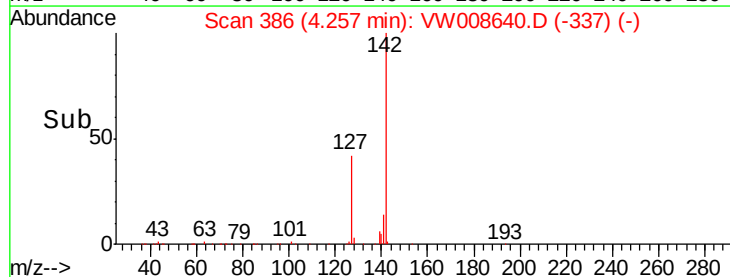
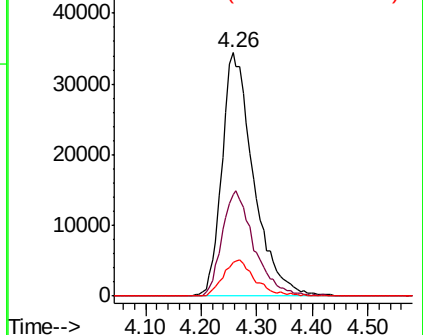
141 14.9 11.8 17.8

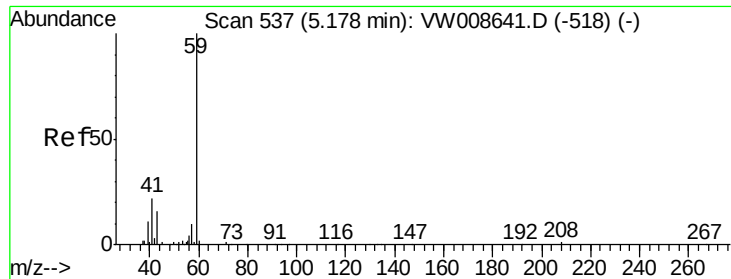


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

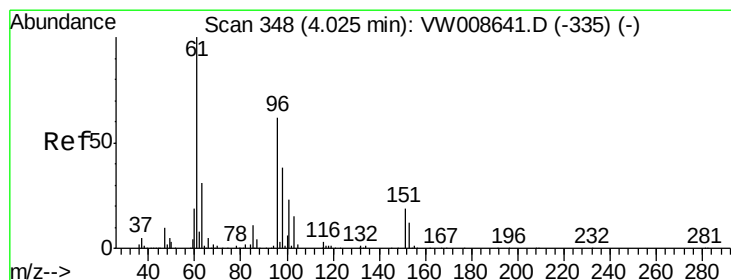
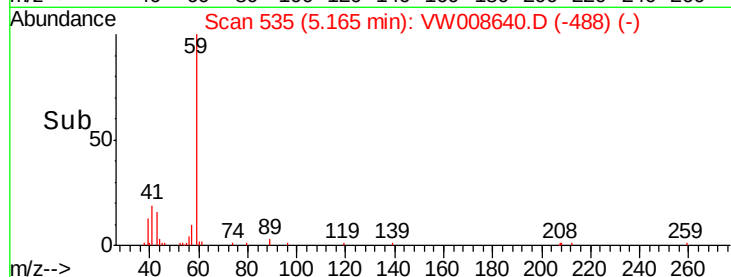
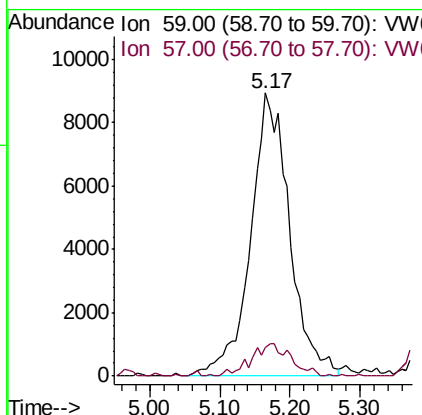
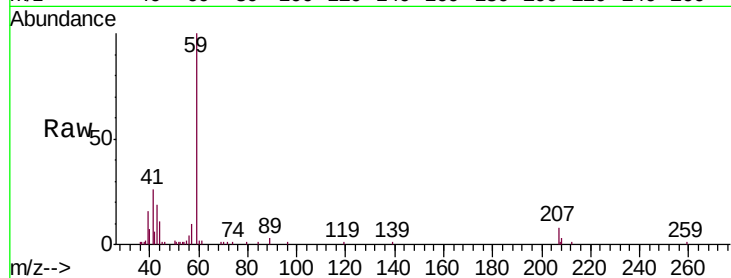




#11  
Tert butyl alcohol  
Concen: 100.832 ug/l  
RT: 5.17 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

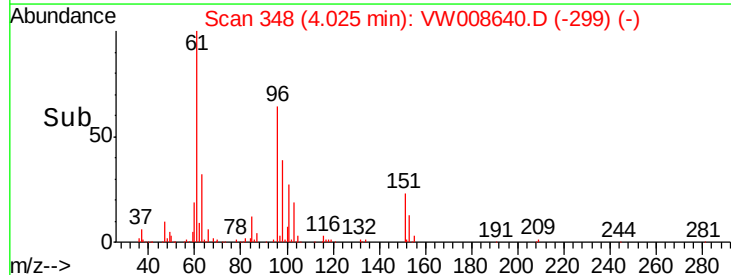
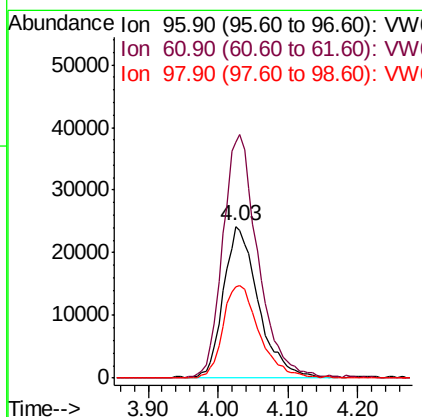
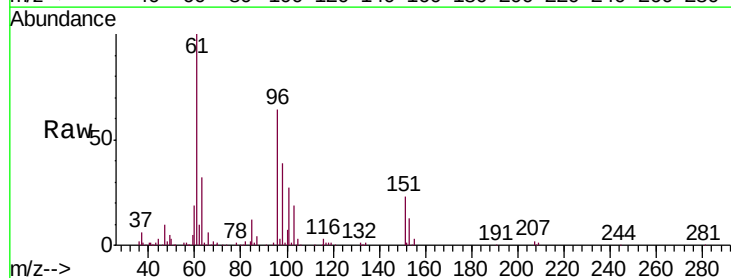
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

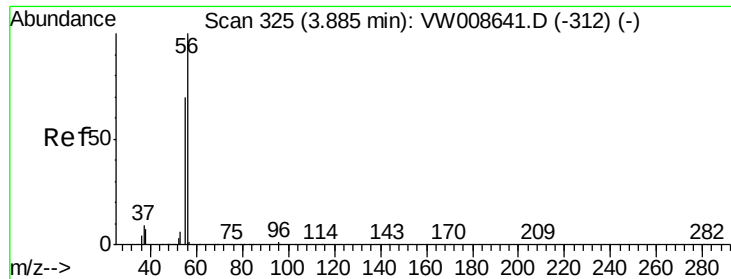
Tgt Ion: 59 Resp: 34771  
Ion Ratio Lower Upper  
59 100  
57 11.1 8.3 12.5



#12  
1,1-Dichloroethene  
Concen: 20.498 ug/l  
RT: 4.03 min Scan# 348  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 96 Resp: 84559  
Ion Ratio Lower Upper  
96 100  
61 154.1 129.8 194.6  
98 60.3 49.3 73.9





#13

Acrolein

Concen: 102.870 ug/l

RT: 3.88 min Scan# 325

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

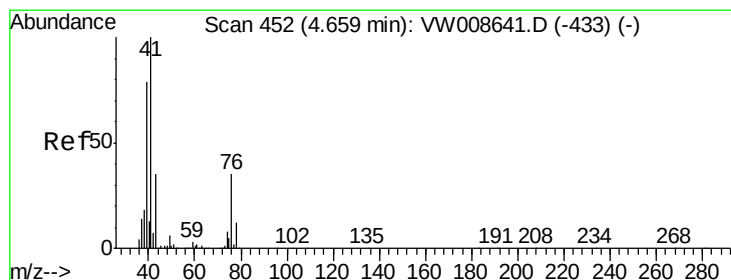
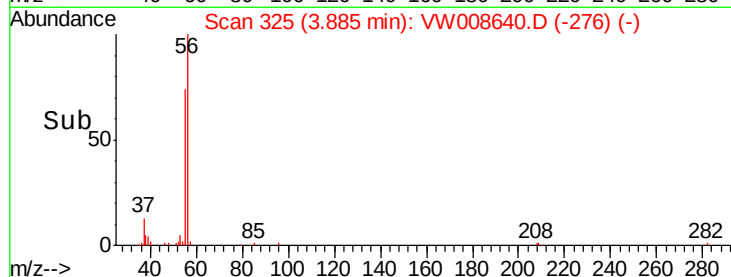
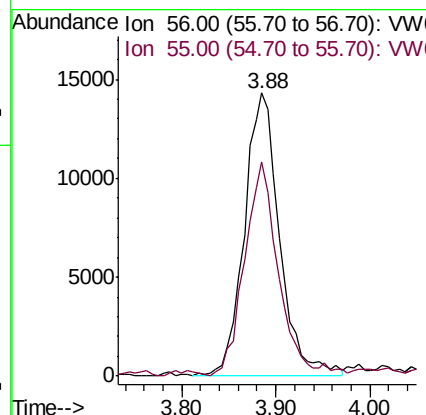
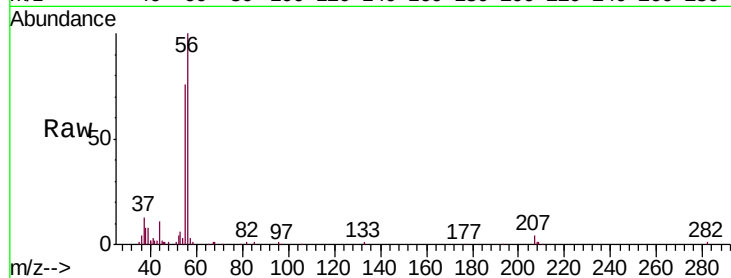
VSTDIC020

Tgt Ion: 56 Resp: 37252

Ion Ratio Lower Upper

56 100

55 70.7 57.4 86.2



#14

Allyl chloride

Concen: 20.202 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

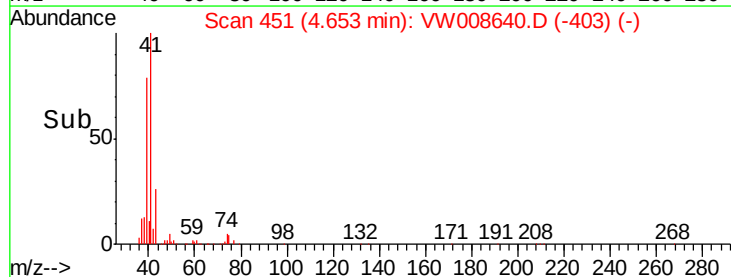
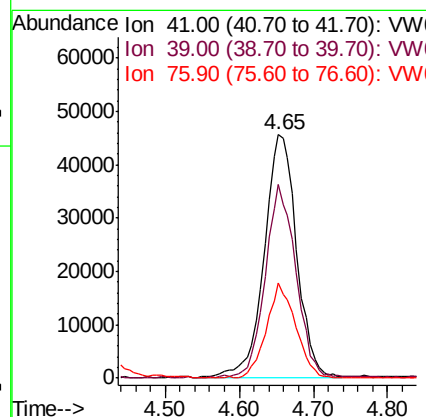
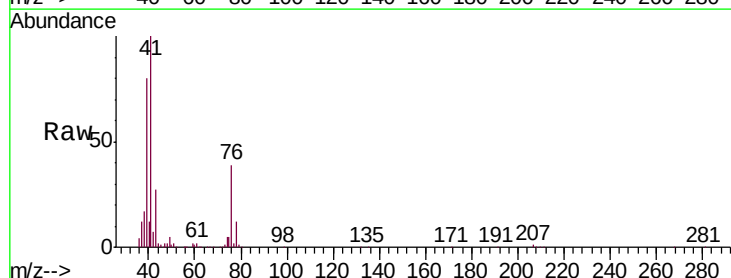
Tgt Ion: 41 Resp: 138457

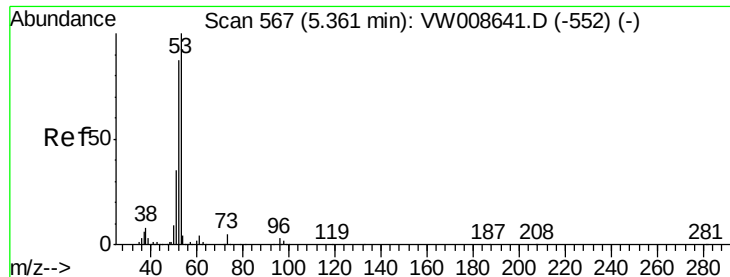
Ion Ratio Lower Upper

41 100

39 75.3 61.7 92.5

76 35.2 27.7 41.5





#15

Acrylonitrile

Concen: 99.145 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

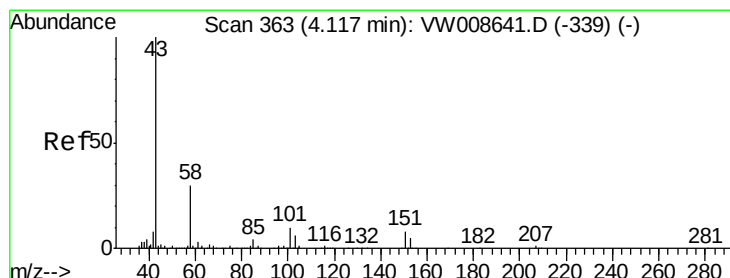
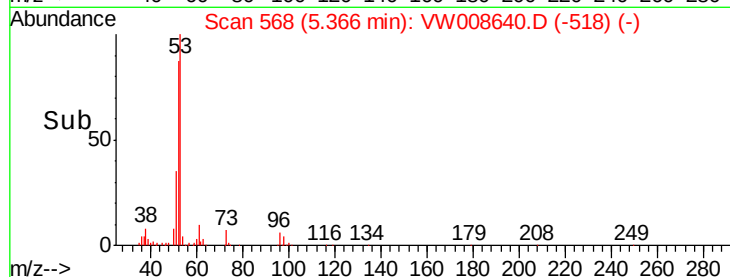
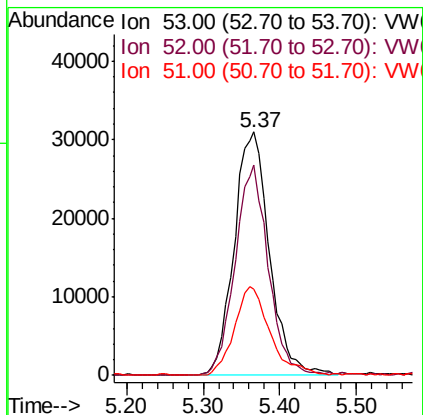
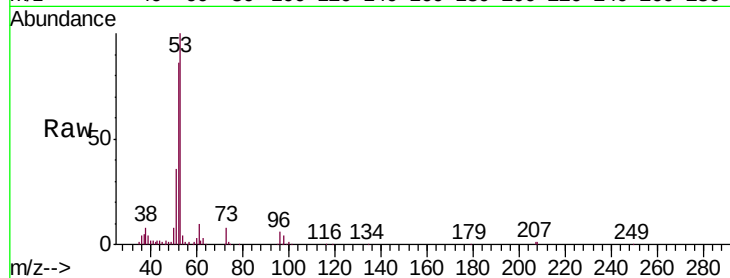
Tgt Ion: 53 Resp: 99401

Ion Ratio Lower Upper

53 100

52 81.3 66.8 100.2

51 36.7 29.4 44.0



#16

Acetone

Concen: 88.994 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW008640.D

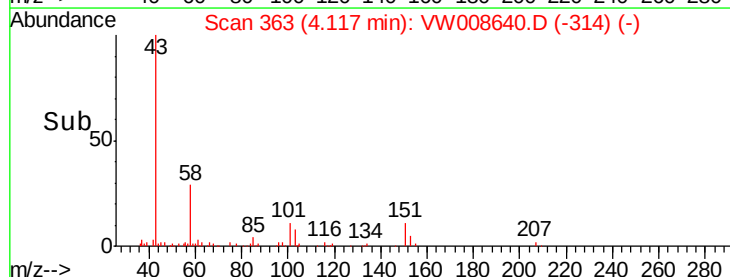
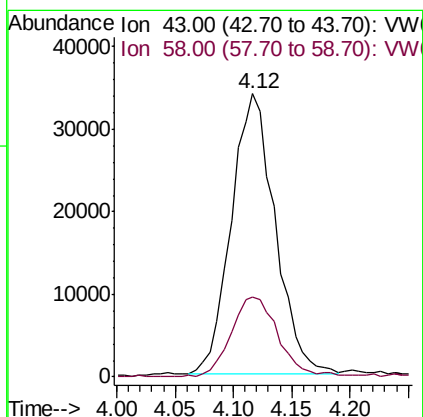
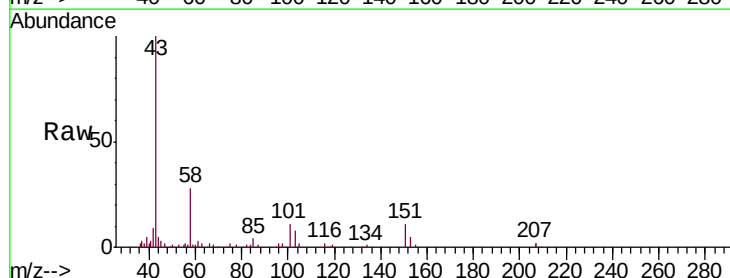
Acq: 13 Feb 2019 15:11

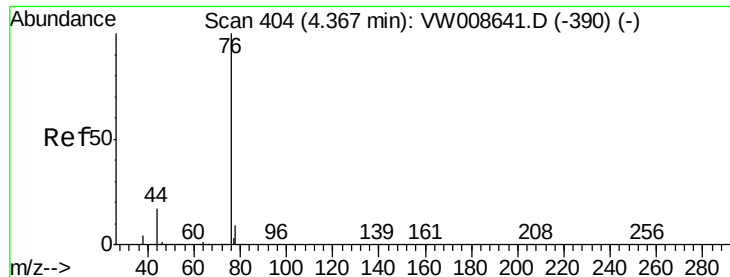
Tgt Ion: 43 Resp: 88656

Ion Ratio Lower Upper

43 100

58 27.9 24.1 36.1





#17

Carbon Disulfide

Concen: 20.179 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

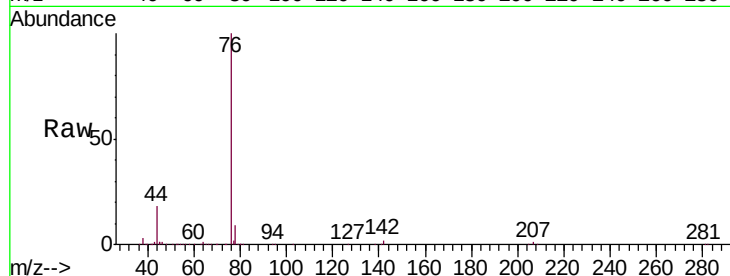
VSTDIC020

Tgt Ion: 76 Resp: 251205

Ion Ratio Lower Upper

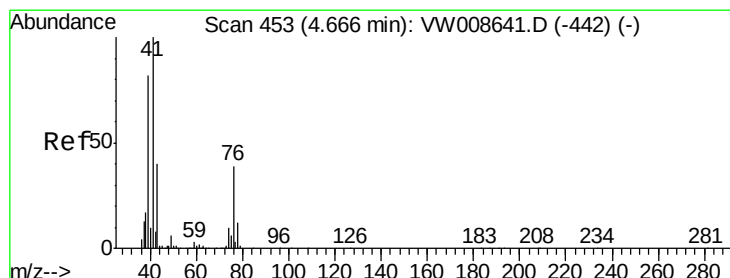
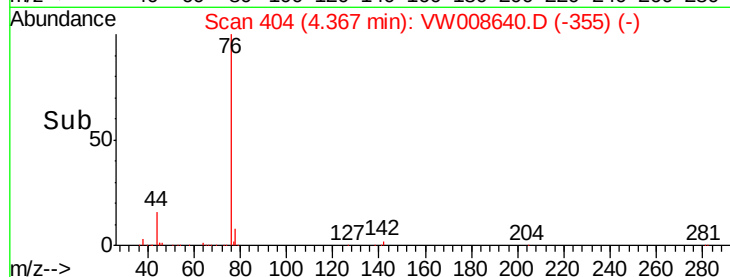
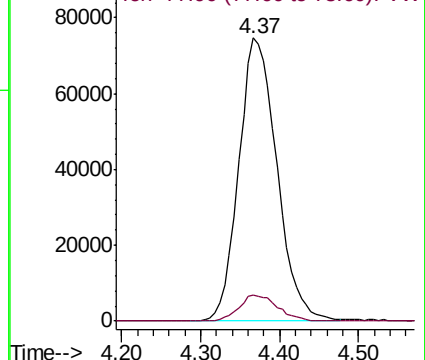
76 100

78 9.1 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 18.435 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW008640.D

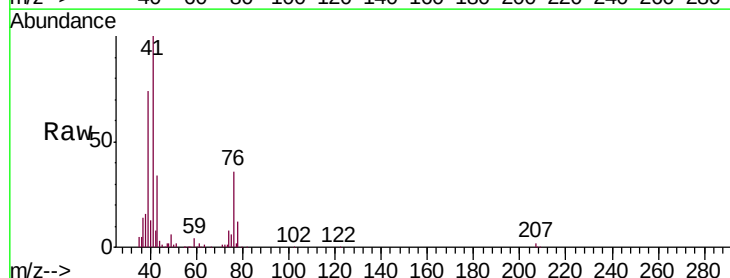
Acq: 13 Feb 2019 15:11

Tgt Ion: 43 Resp: 42110

Ion Ratio Lower Upper

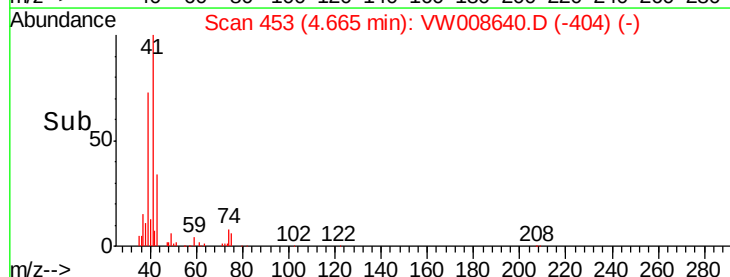
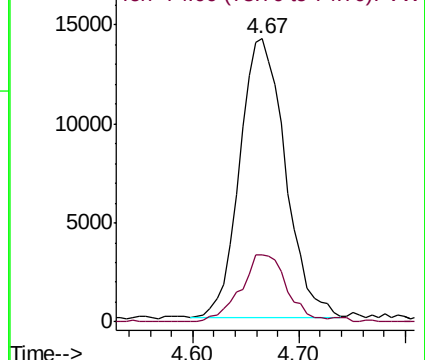
43 100

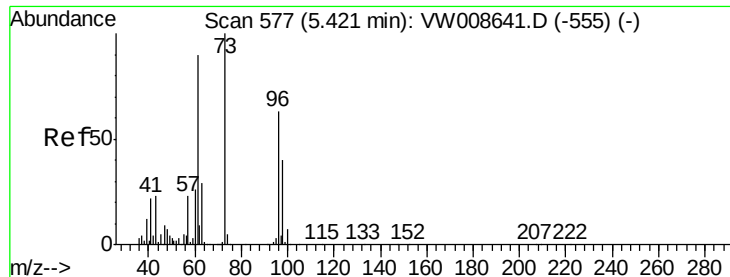
74 24.6 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





#19

Methyl tert-butyl Ether

Concen: 20.257 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

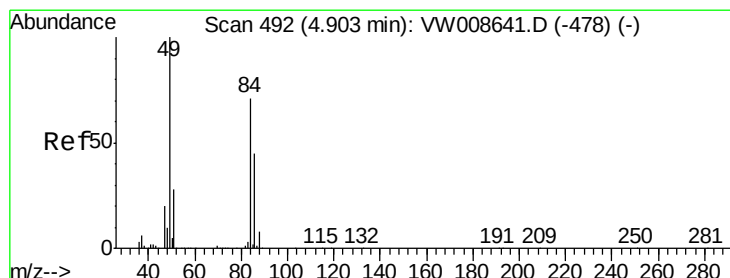
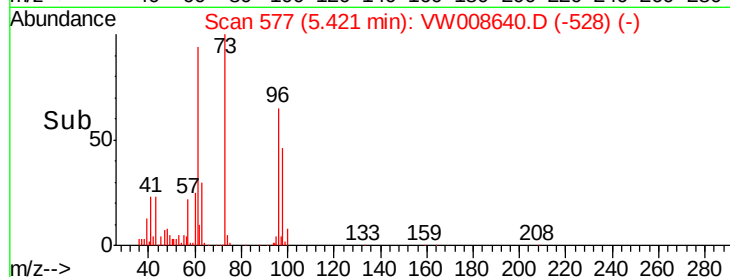
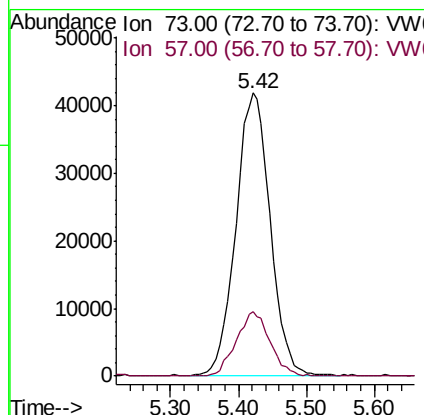
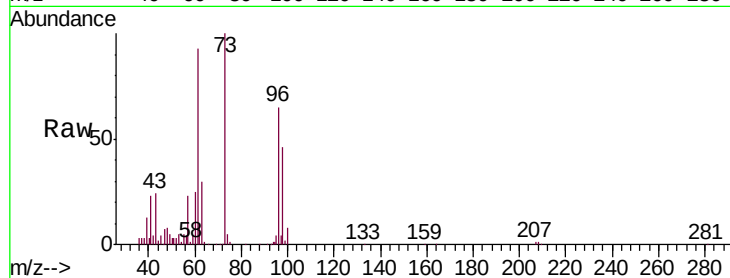
VSTDIC020

Tgt Ion: 73 Resp: 146692

Ion Ratio Lower Upper

73 100

57 22.6 18.2 27.2



#20

Methylene Chloride

Concen: 17.041 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Tgt Ion: 84 Resp: 97482

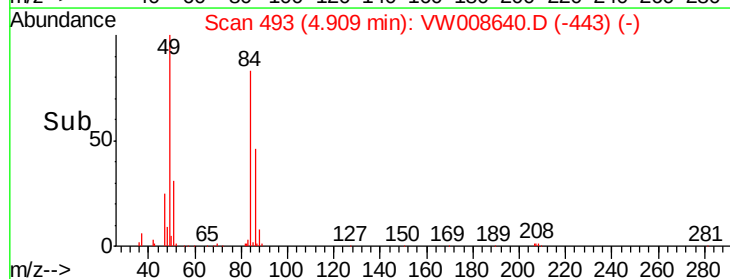
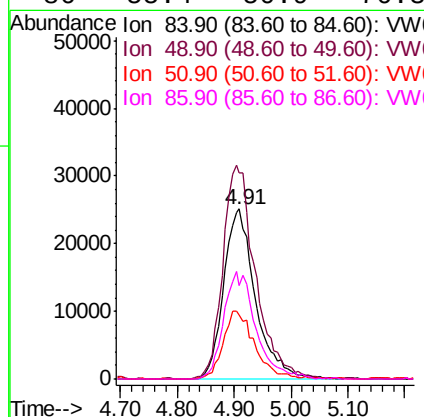
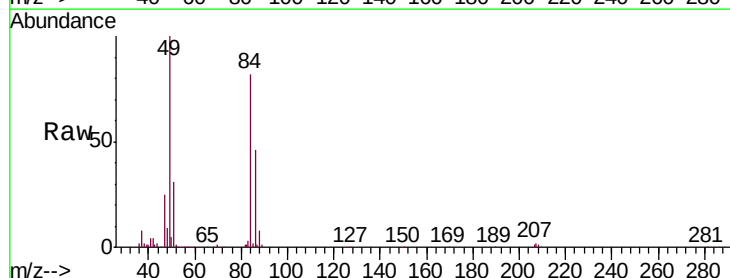
Ion Ratio Lower Upper

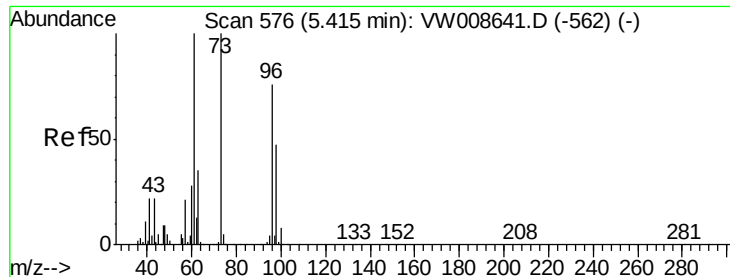
84 100

49 121.1 113.3 169.9

51 37.8 32.1 48.1

86 55.4 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 20.225 ug/l

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

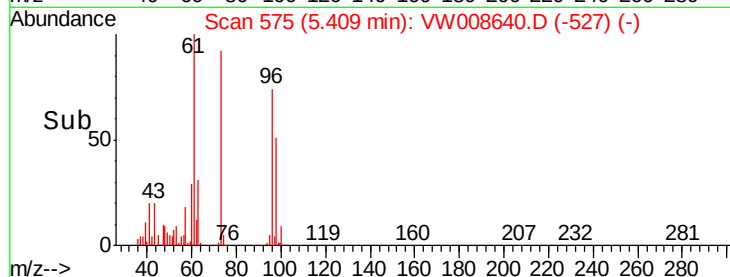
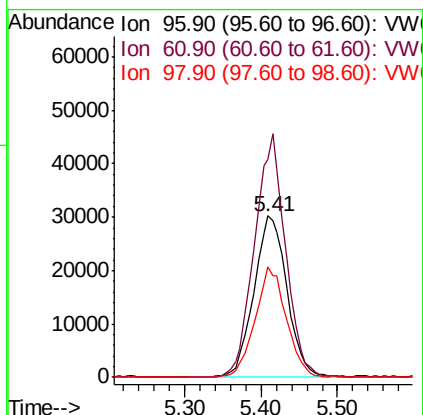
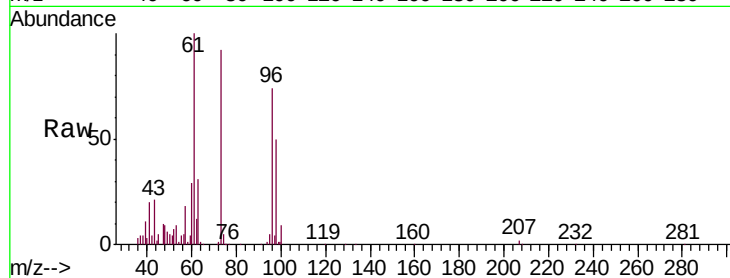
Tgt Ion: 96 Resp: 91371

Ion Ratio Lower Upper

96 100

61 135.3 105.9 158.9

98 68.0 49.8 74.6



#22

Diisopropyl ether

Concen: 20.073 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Tgt Ion: 45 Resp: 276885

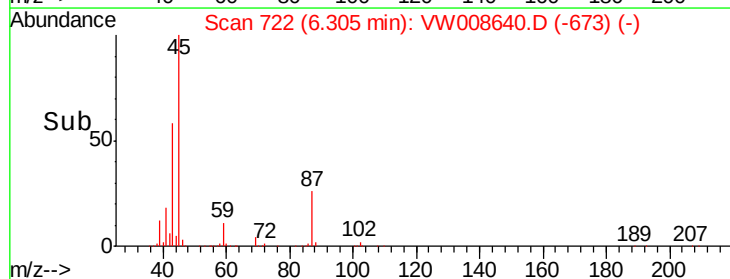
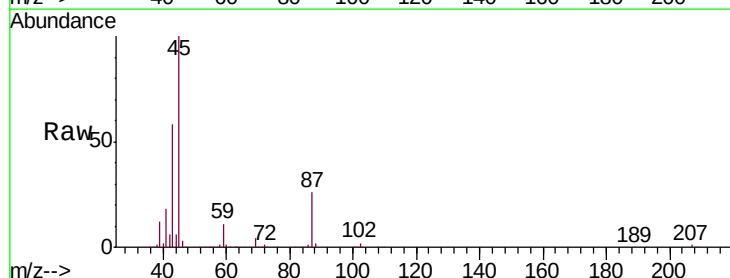
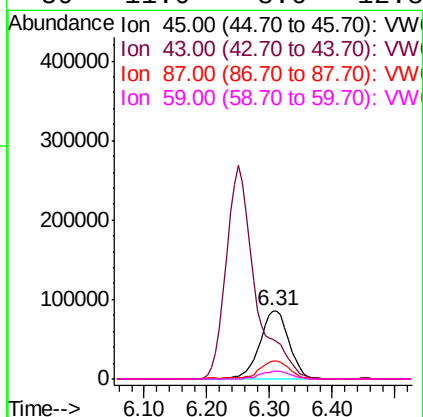
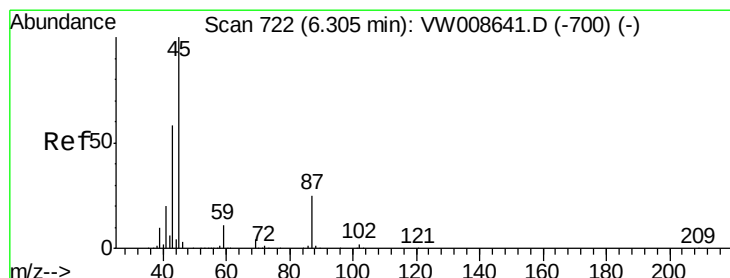
Ion Ratio Lower Upper

45 100

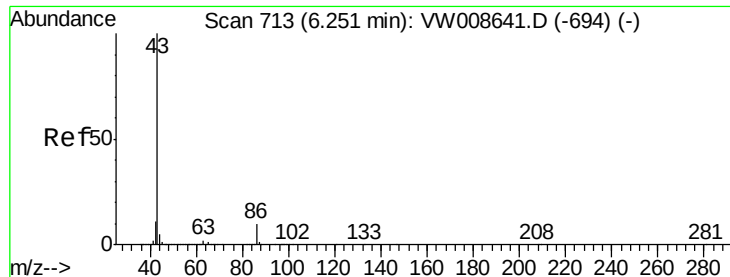
43 57.4 46.1 69.1

87 25.5 20.5 30.7

59 11.0 8.6 12.8







#23

Vinyl Acetate

Concen: 96.728 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

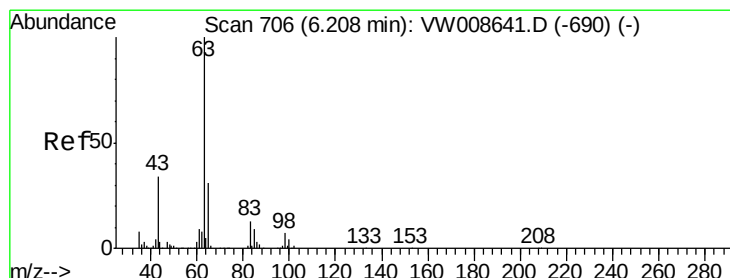
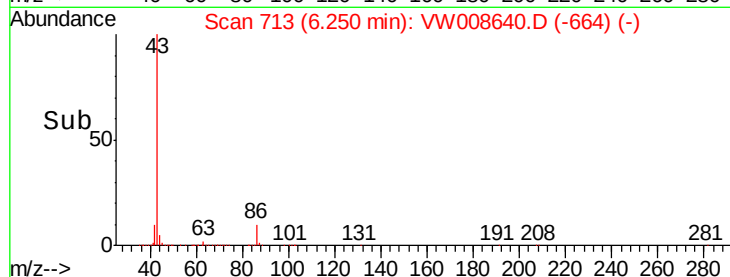
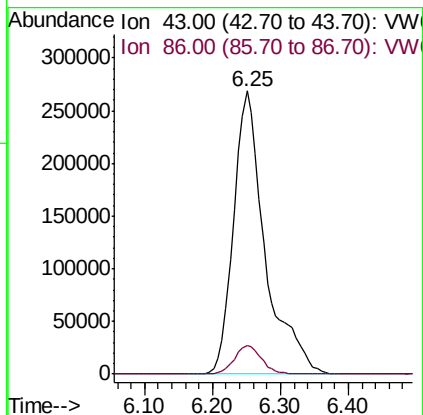
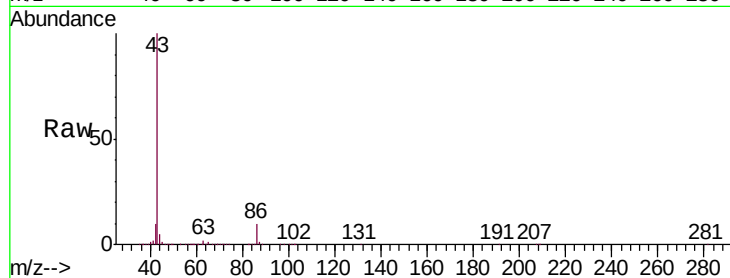
VSTDIC020

Tgt Ion: 43 Resp: 865978

Ion Ratio Lower Upper

43 100

86 10.0 7.9 11.9



#24

1,1-Dichloroethane

Concen: 20.177 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

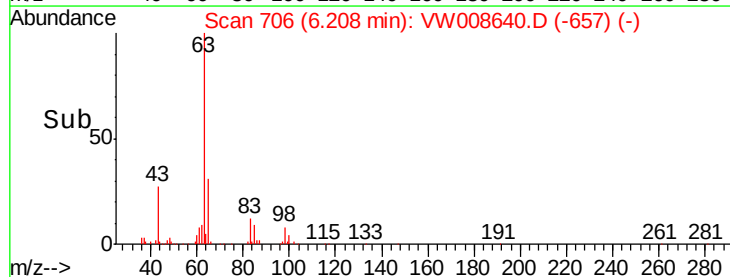
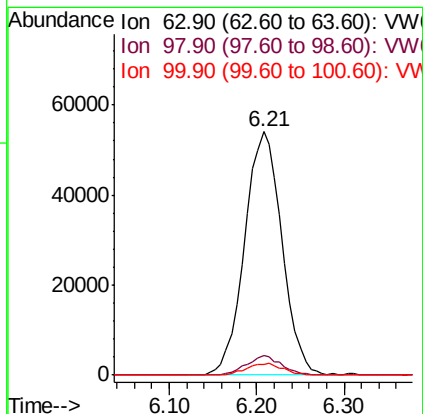
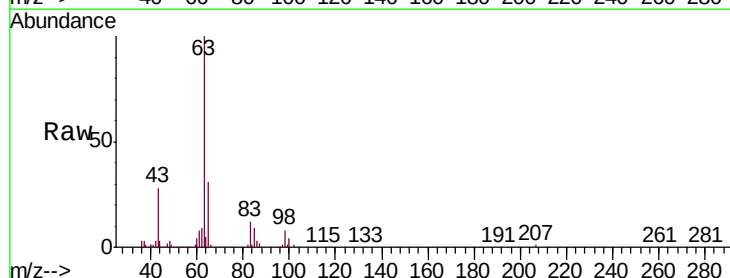
Tgt Ion: 63 Resp: 160603

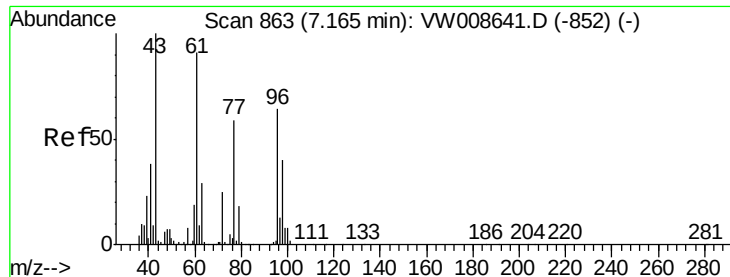
Ion Ratio Lower Upper

63 100

98 8.0 3.6 10.8

100 4.4 2.2 6.6





#25

2-Butanone

Concen: 95.233 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

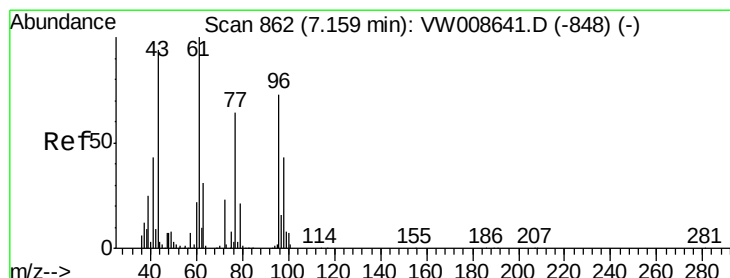
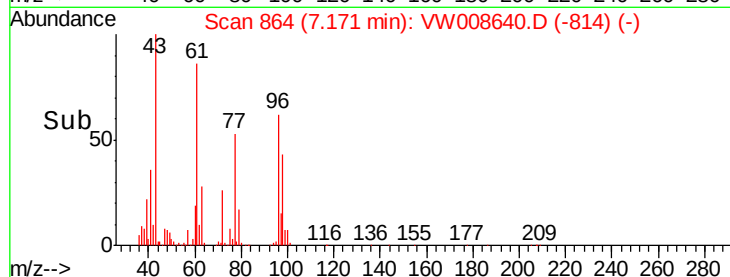
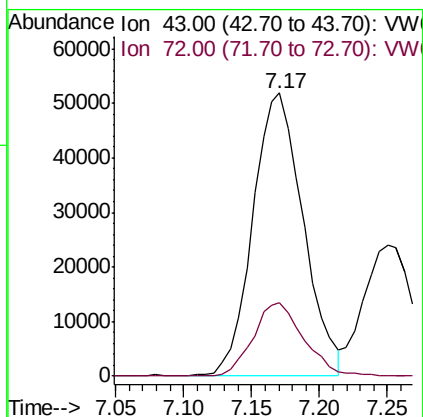
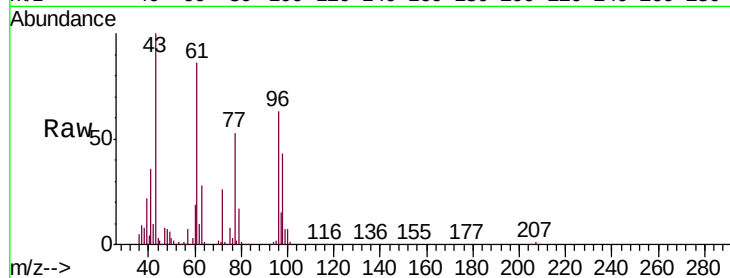
VSTDIC020

Tgt Ion: 43 Resp: 134426

Ion Ratio Lower Upper

43 100

72 25.8 19.7 29.5



#26

2,2-Dichloropropane

Concen: 19.860 ug/l

RT: 7.16 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW008640.D

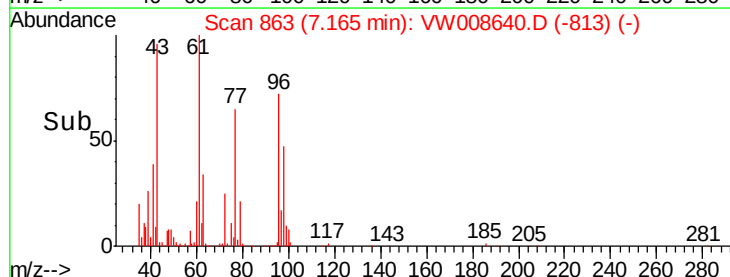
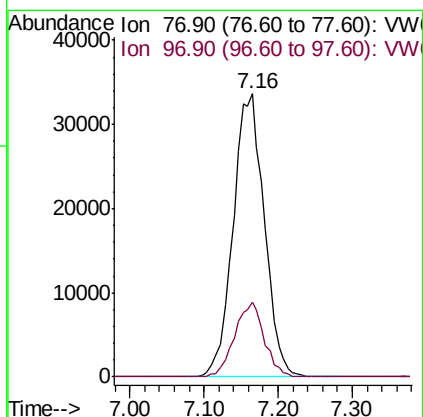
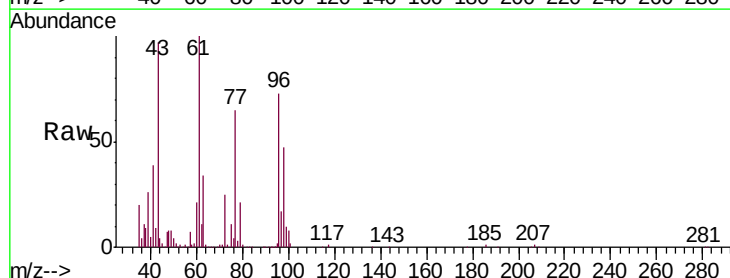
Acq: 13 Feb 2019 15:11

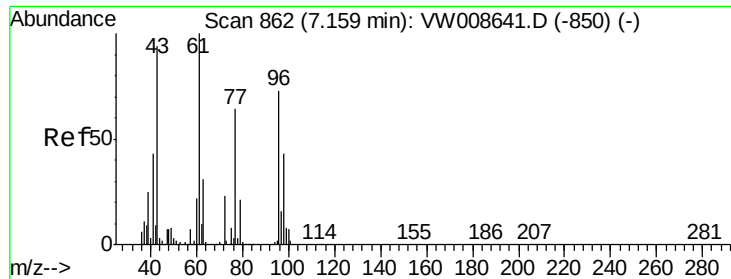
Tgt Ion: 77 Resp: 98753

Ion Ratio Lower Upper

77 100

97 25.1 11.7 35.0



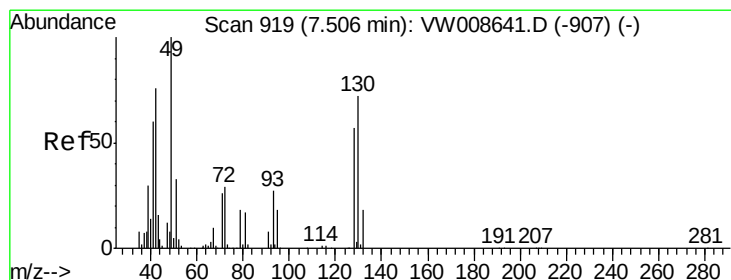
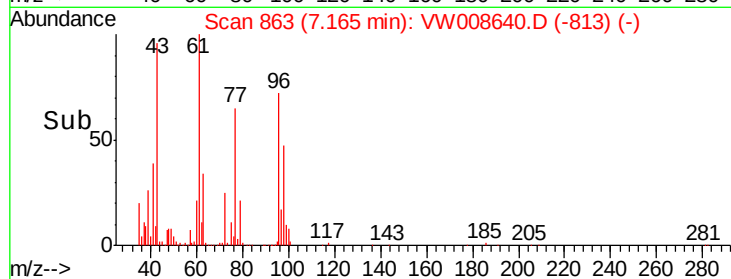
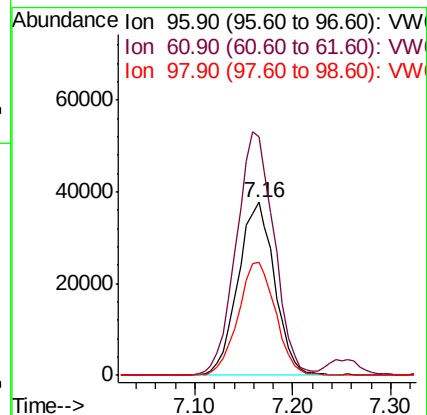
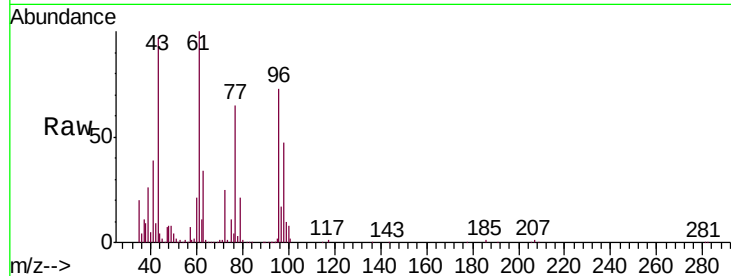


#27

cis-1,2-Dichloroethene  
Concen: 20.068 ug/l  
RT: 7.16 min Scan# 863  
Delta R.T. 0.01 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

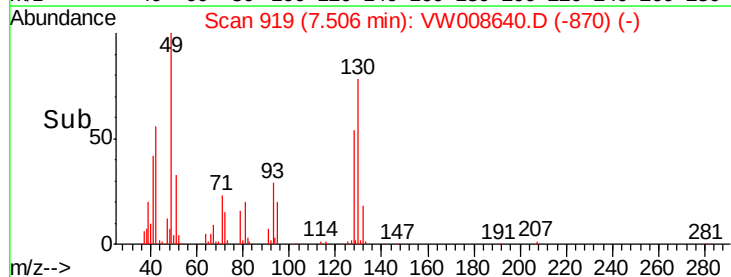
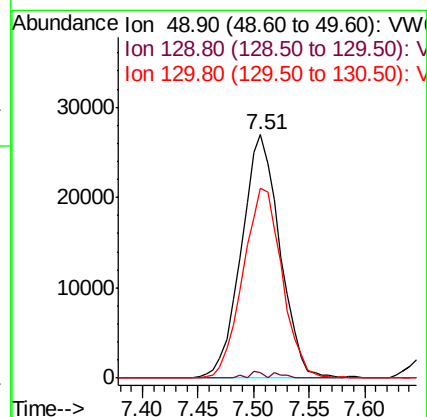
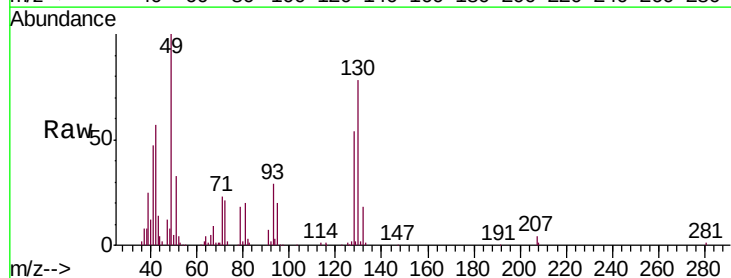
Tgt Ion: 96 Resp: 98034  
Ion Ratio Lower Upper  
96 100  
61 144.7 0.0 286.4  
98 66.4 0.0 125.0

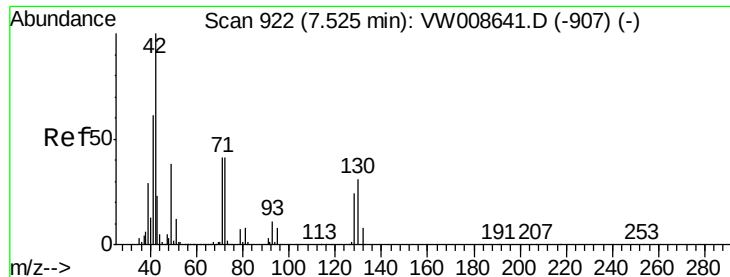


#28

Bromochloromethane  
Concen: 19.297 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 49 Resp: 64843  
Ion Ratio Lower Upper  
49 100  
129 1.0 0.0 3.2  
130 79.3 59.4 89.0

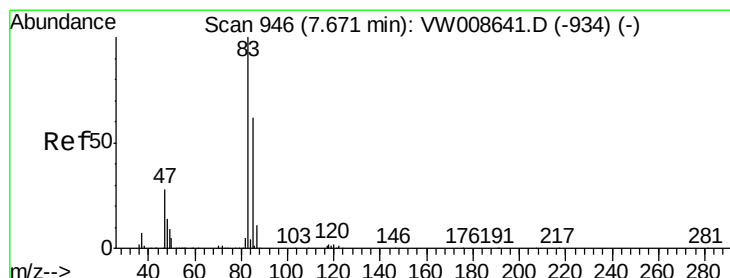
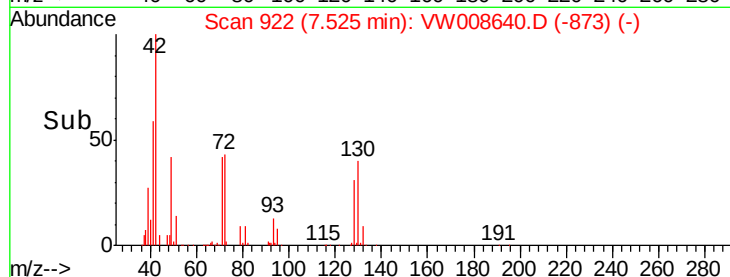
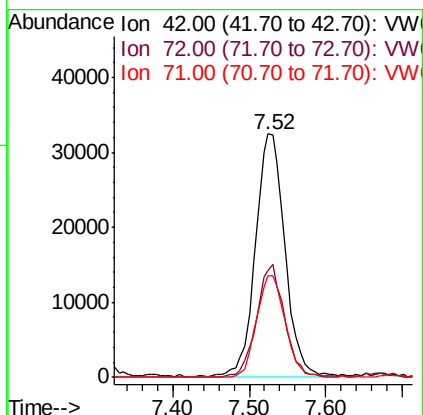
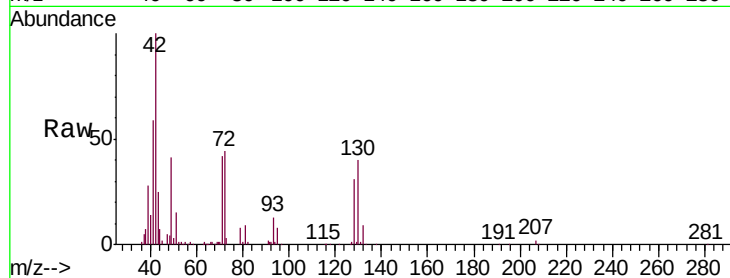




#29  
Tetrahydrofuran  
Concen: 93.841 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

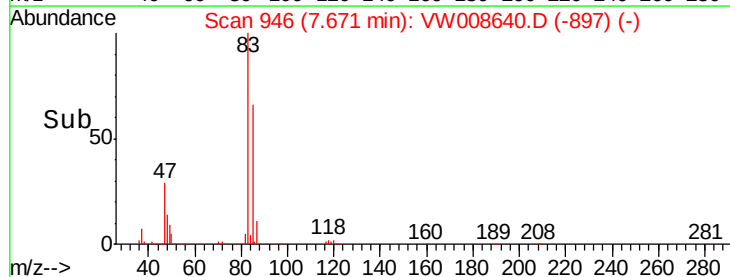
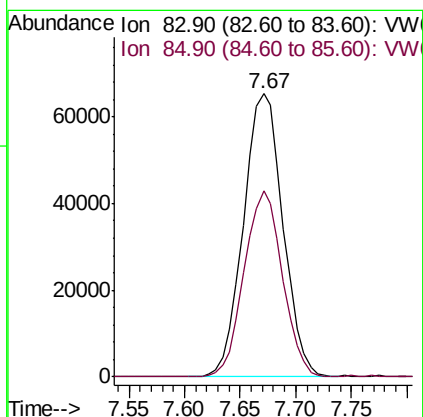
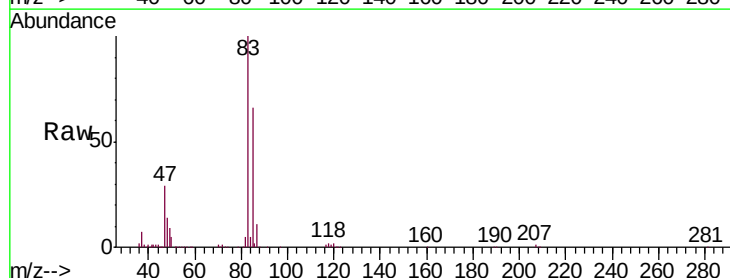
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

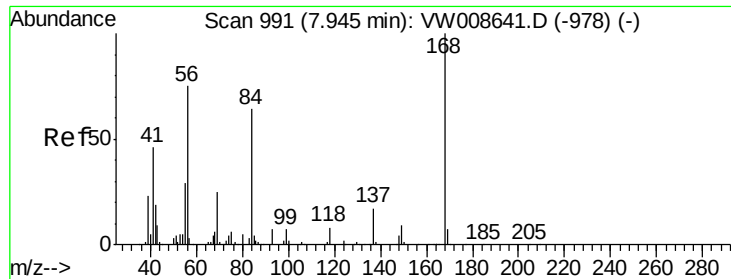
Tgt Ion: 42 Resp: 87308  
Ion Ratio Lower Upper  
42 100  
72 43.7 32.2 48.2  
71 41.2 31.0 46.6



#30  
Chloroform  
Concen: 20.162 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 83 Resp: 160808  
Ion Ratio Lower Upper  
83 100  
85 65.9 49.8 74.8

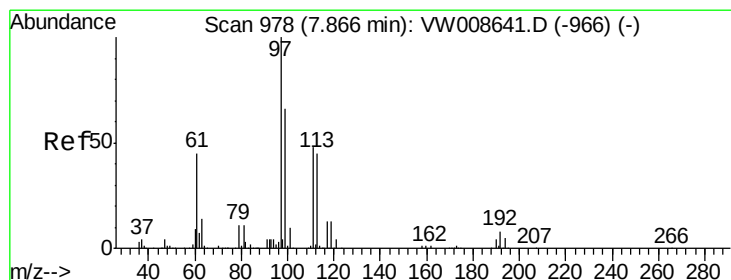
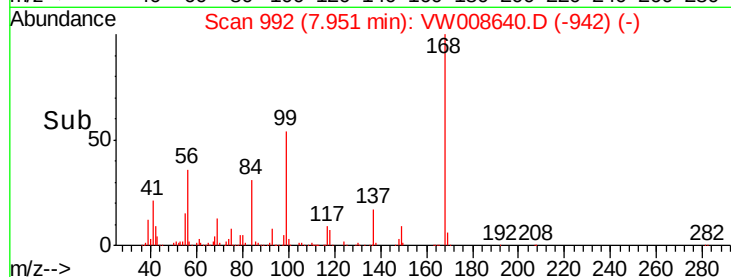
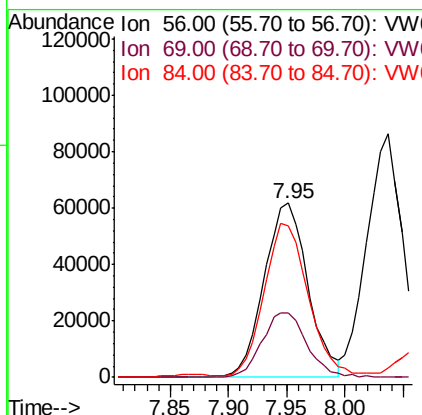
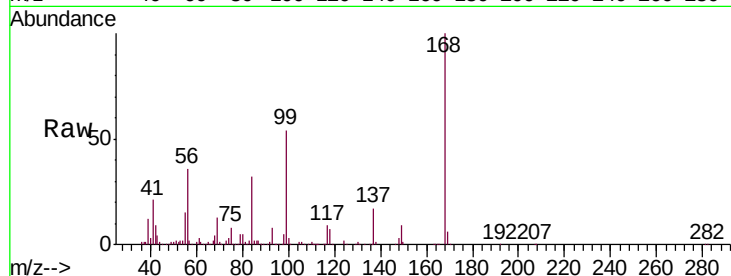




#31  
Cyclohexane  
Concen: 20.046 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.01 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

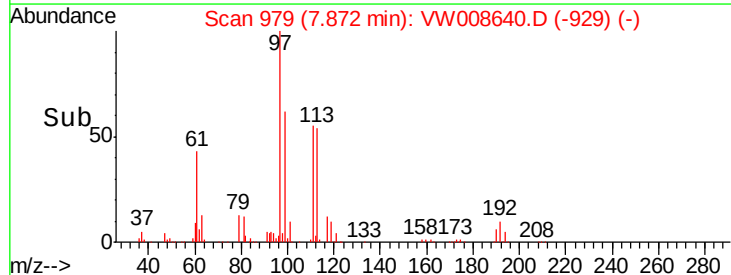
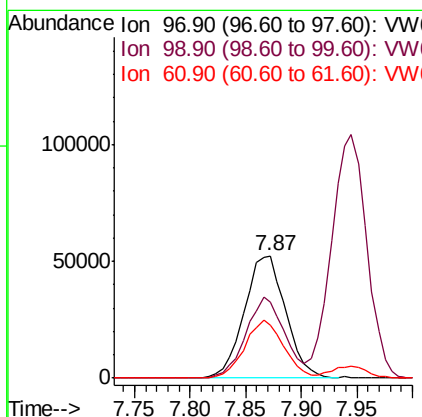
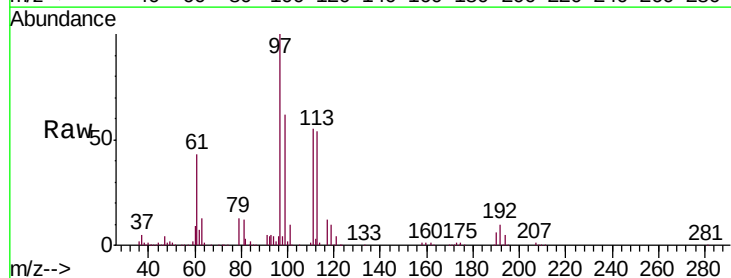
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

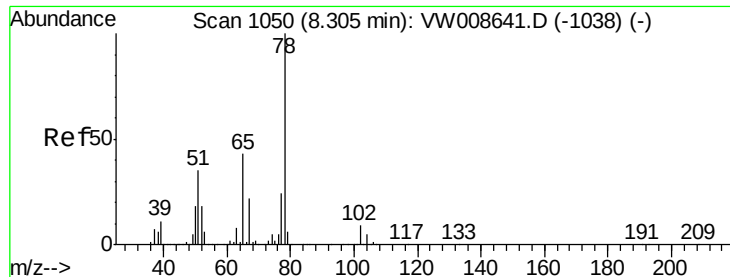
Tgt Ion: 56 Resp: 161049  
Ion Ratio Lower Upper  
56 100  
69 36.7 26.4 39.6  
84 85.6 67.4 101.2



#32  
1,1,1-Trichloroethane  
Concen: 20.072 ug/l  
RT: 7.87 min Scan# 979  
Delta R.T. 0.01 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 97 Resp: 135201  
Ion Ratio Lower Upper  
97 100  
99 62.2 51.6 77.4  
61 45.1 35.8 53.6





#33

1,2-Dichloroethane-d4

Concen: 18.318 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

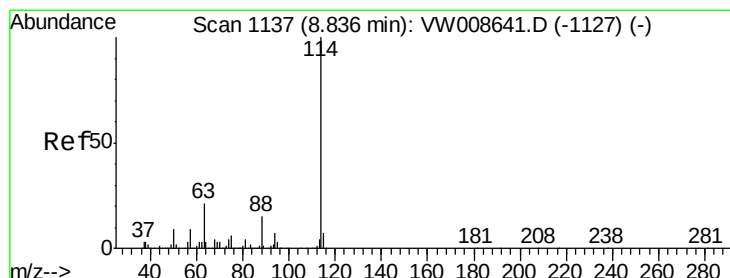
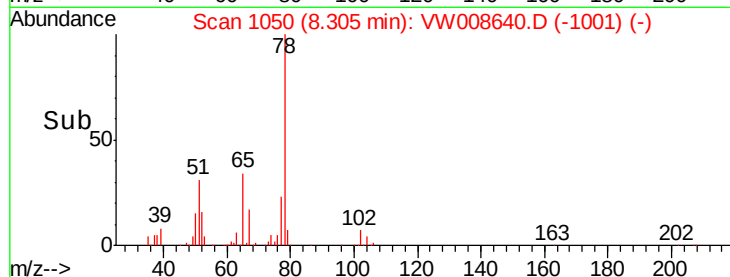
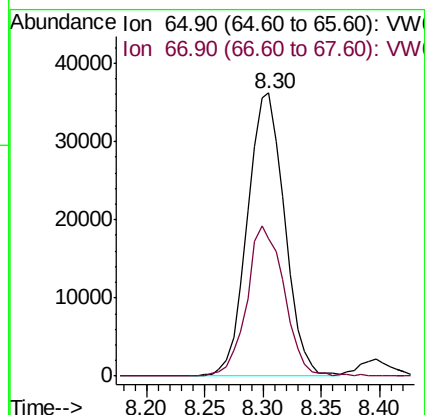
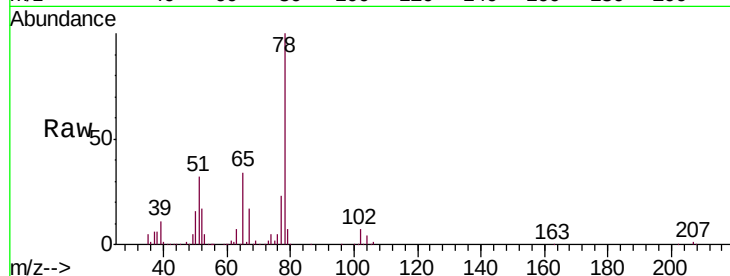
VSTDIC020

Tgt Ion: 65 Resp: 80470

Ion Ratio Lower Upper

65 100

67 53.0 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1137

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

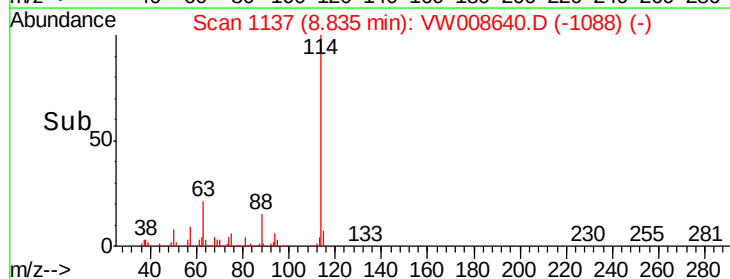
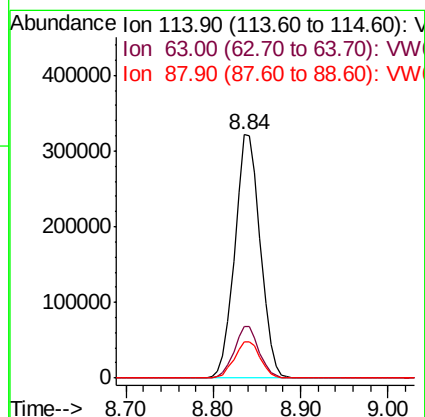
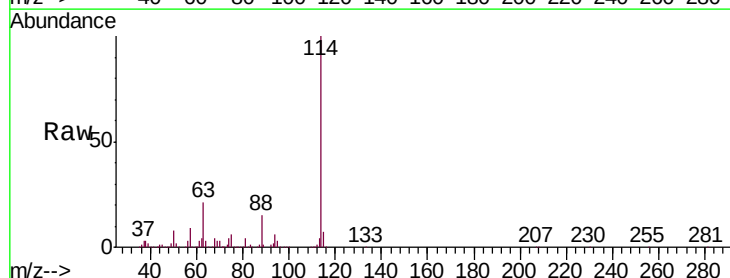
Tgt Ion: 114 Resp: 651566

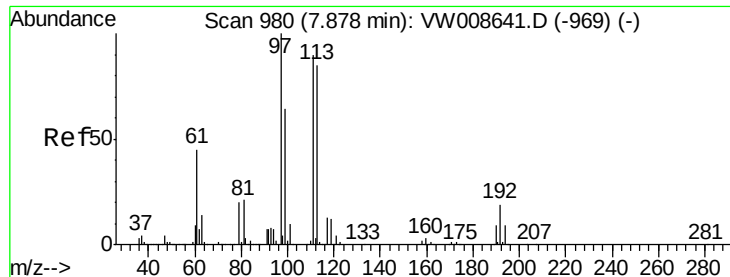
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.2

88 14.9 0.0 29.6

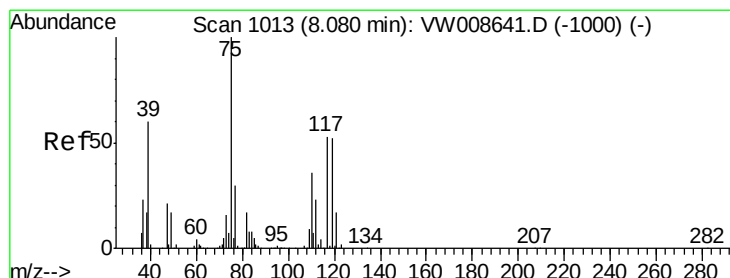
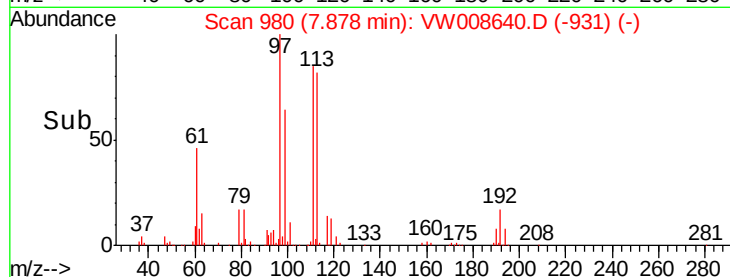
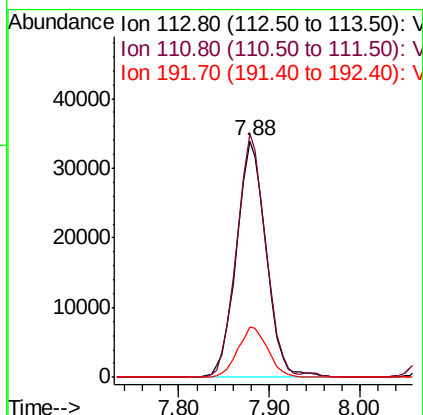
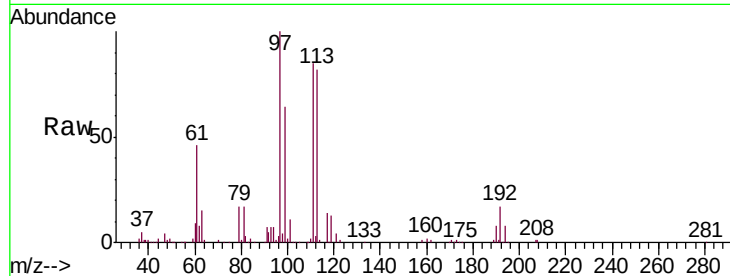




#35  
 Dibromofluoromethane  
 Concen: 19.021 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

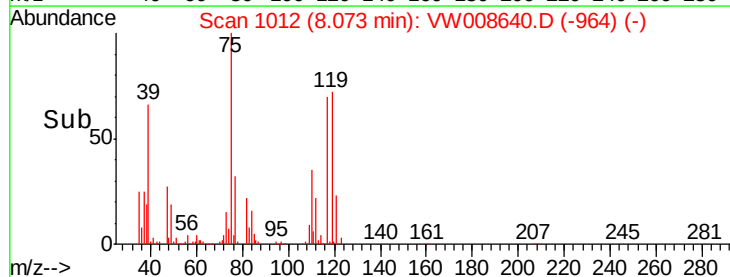
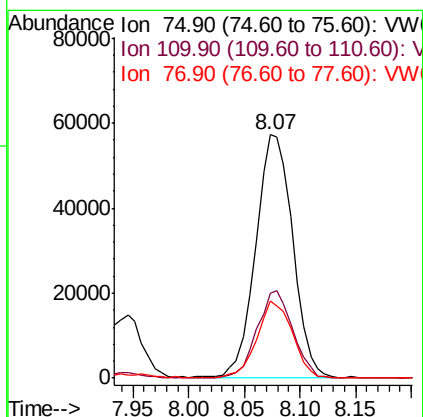
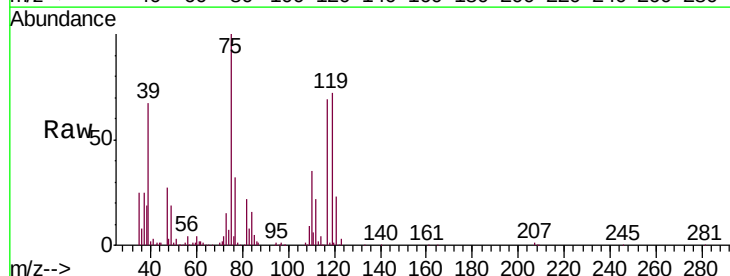
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC020

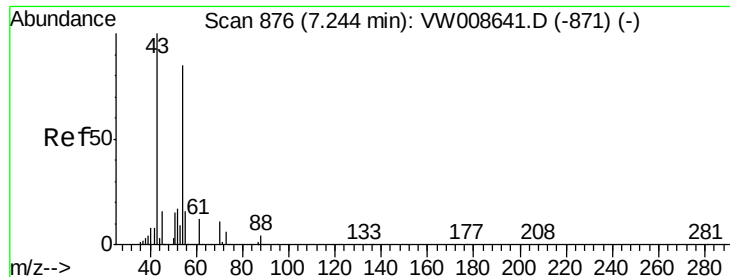
Tgt Ion: 113 Resp: 76956  
 Ion Ratio Lower Upper  
 113 100  
 111 100.6 84.0 126.0  
 192 21.5 17.4 26.2



#36  
 1,1-Dichloropropene  
 Concen: 20.227 ug/l  
 RT: 8.07 min Scan# 1012  
 Delta R.T. -0.01 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

Tgt Ion: 75 Resp: 132411  
 Ion Ratio Lower Upper  
 75 100  
 110 35.0 17.8 53.3  
 77 30.9 24.7 37.1

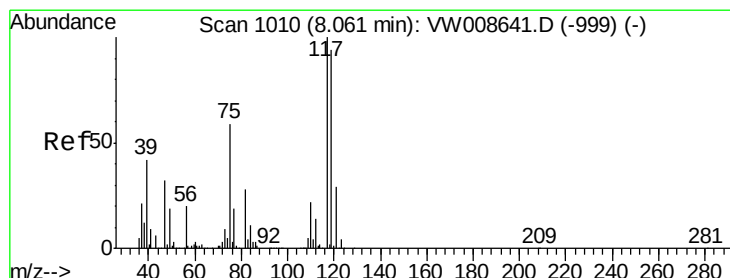
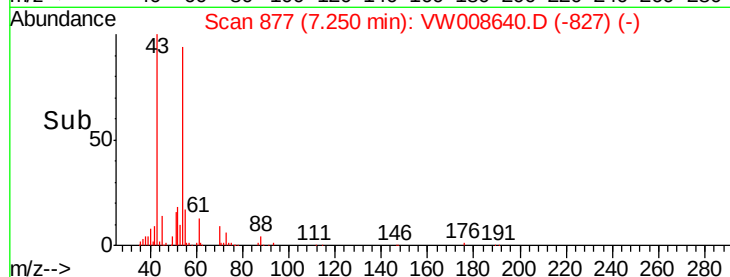
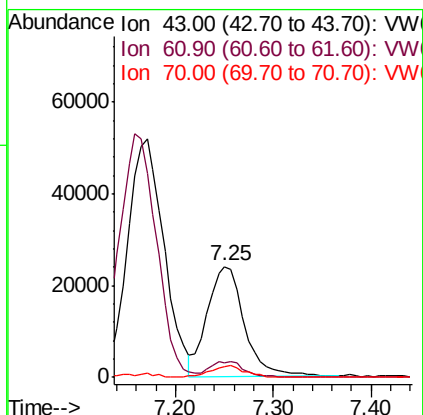
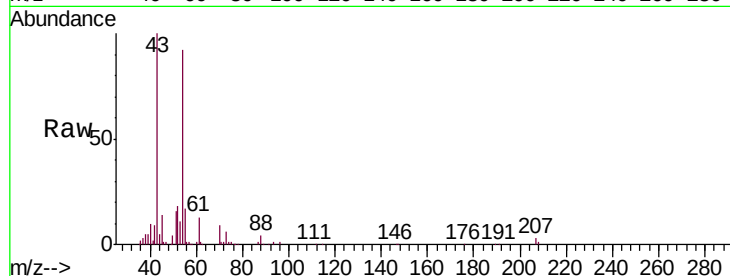




#37  
Ethyl Acetate  
Concen: 20.081 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. 0.01 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

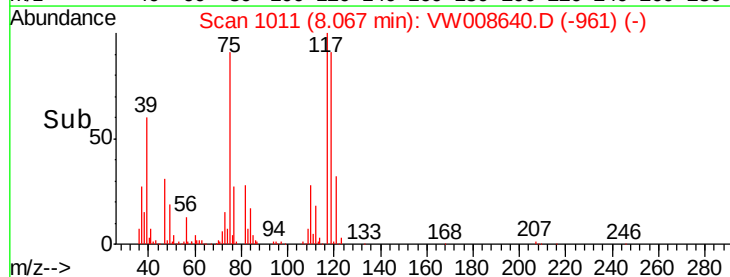
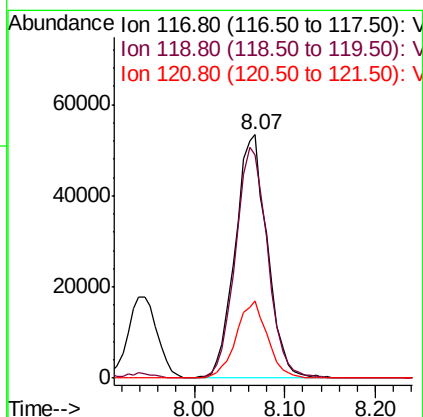
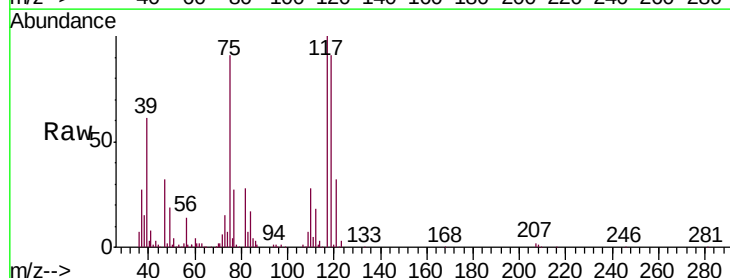
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTDIC020

Tgt Ion: 43 Resp: 63410  
Ion Ratio Lower Upper  
43 100  
61 14.0 10.5 15.7  
70 9.8 8.1 12.1

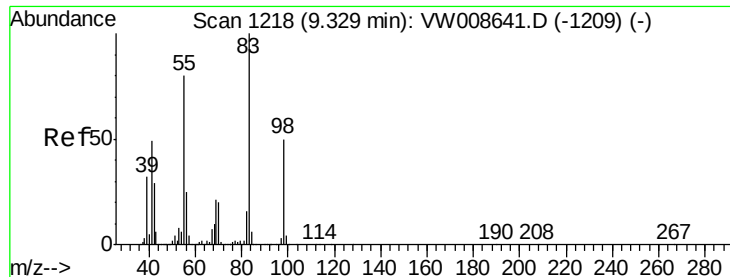


#38  
Carbon Tetrachloride  
Concen: 20.139 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. 0.01 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 117 Resp: 131089  
Ion Ratio Lower Upper  
117 100  
119 91.3 75.1 112.7  
121 31.6 23.5 35.3







#39

Methylcyclohexane

Concen: 20.082 ug/l

RT: 9.33 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

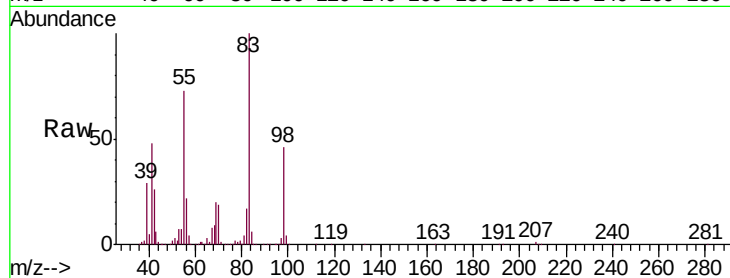
Tgt Ion: 83 Resp: 166272

Ion Ratio Lower Upper

83 100

55 73.3 63.9 95.9

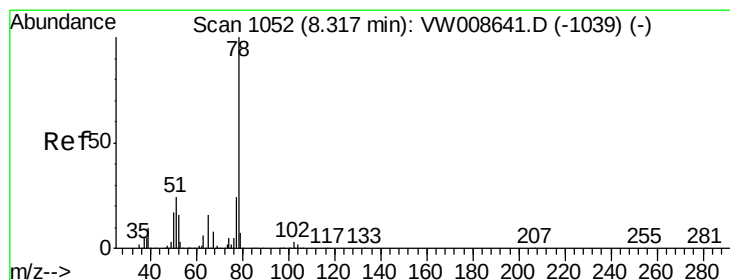
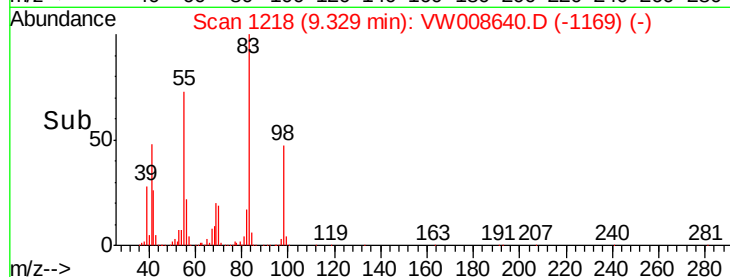
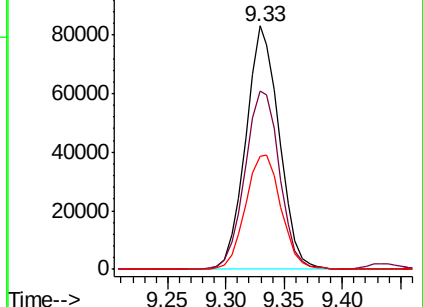
98 46.5 40.2 60.2



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



#40

Benzene

Concen: 20.302 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW008640.D

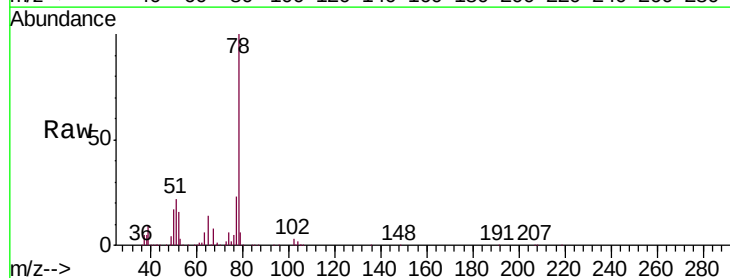
Acq: 13 Feb 2019 15:11

Tgt Ion: 78 Resp: 362955

Ion Ratio Lower Upper

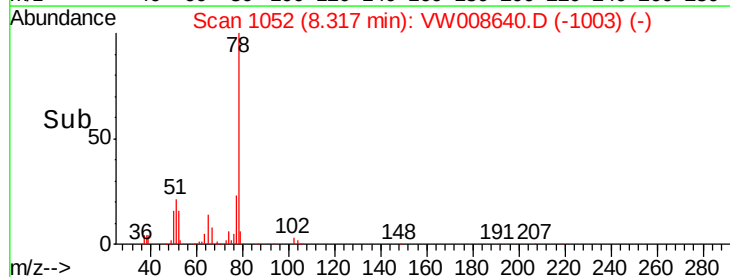
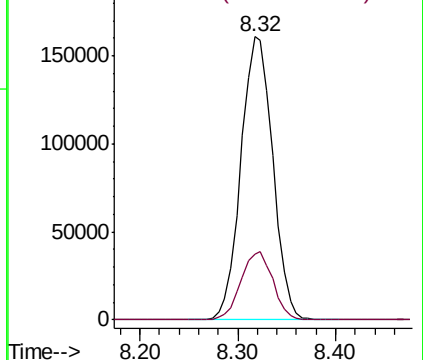
78 100

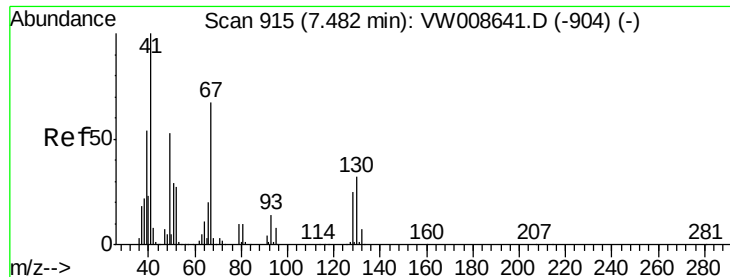
77 23.1 19.5 29.3



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW

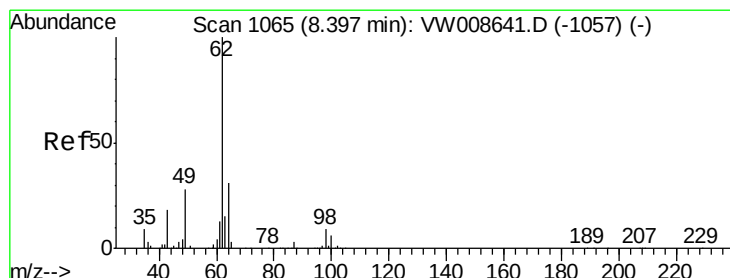
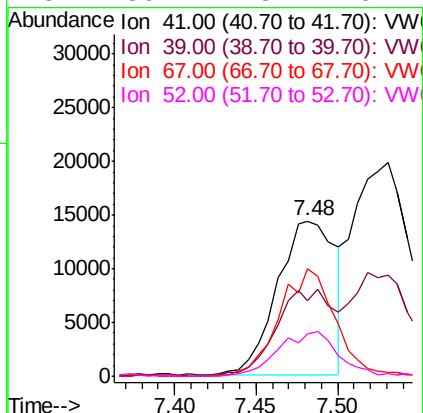
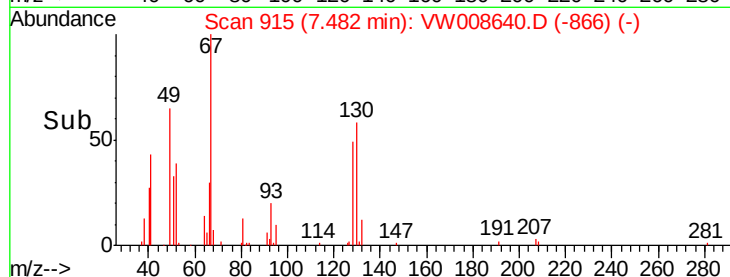
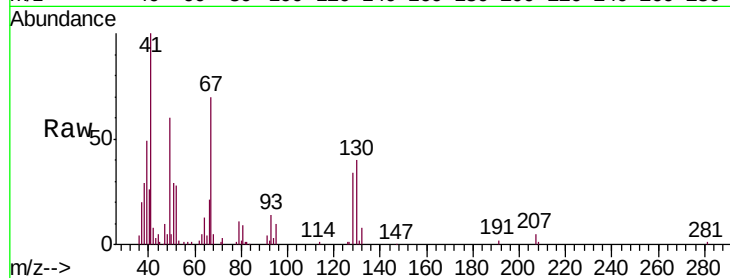




#41  
Methacrylonitrile  
Concen: 20.006 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

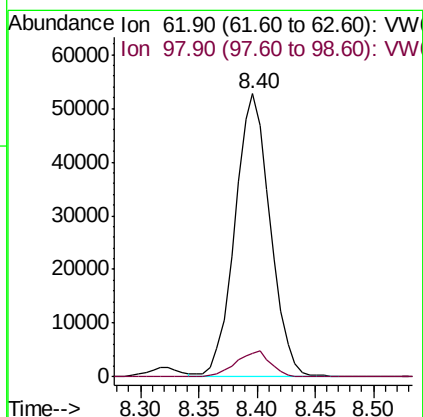
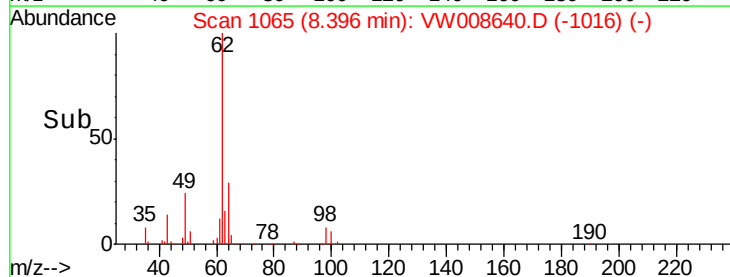
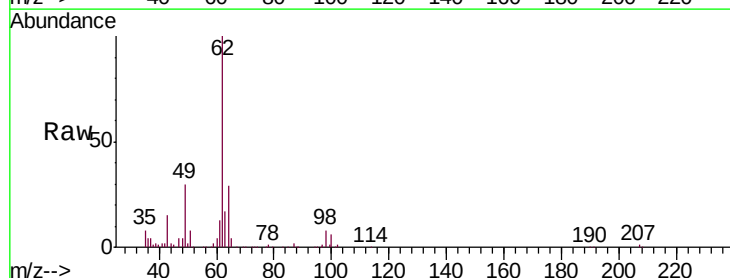
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

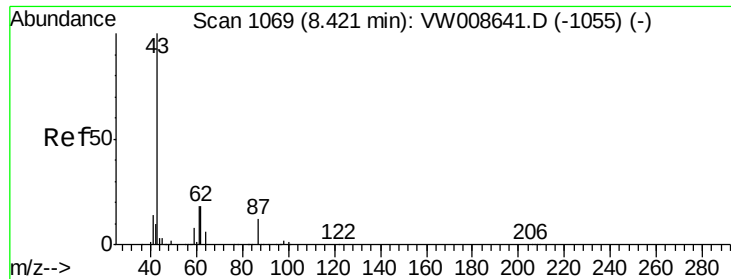
Tgt Ion: 41 Resp: 35544  
Ion Ratio Lower Upper  
41 100  
39 53.9 39.7 59.5  
67 67.4 52.5 78.7  
52 30.4 23.1 34.7



#42  
1,2-Dichloroethane  
Concen: 19.991 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 62 Resp: 110861  
Ion Ratio Lower Upper  
62 100  
98 9.1 0.0 18.2





#43

Isopropyl Acetate

Concen: 19.317 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

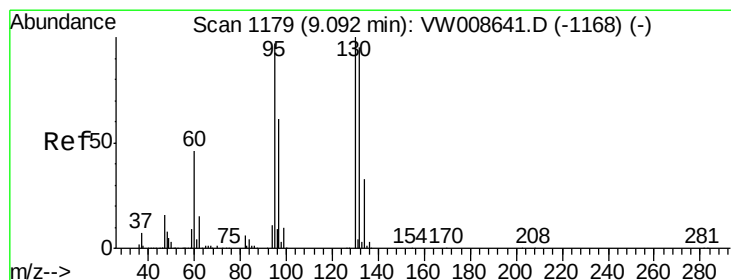
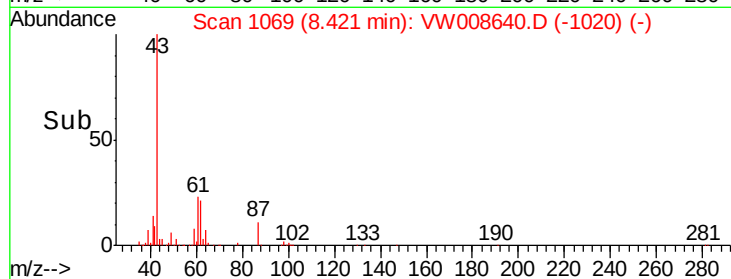
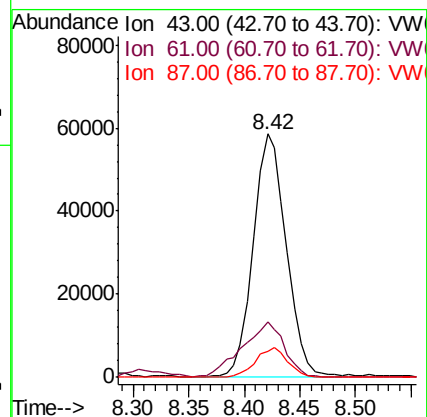
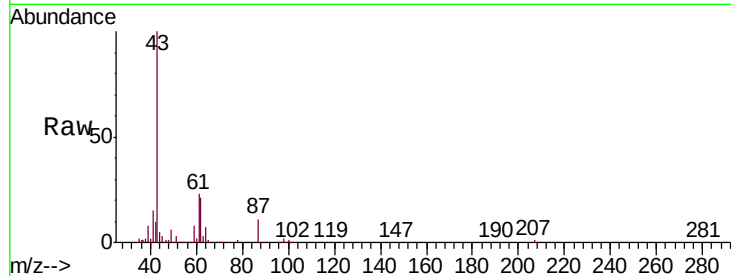
Tgt Ion: 43 Resp: 121632

Ion Ratio Lower Upper

43 100

61 28.9 21.4 32.2

87 12.1 9.8 14.8



#44

Trichloroethene

Concen: 20.060 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW008640.D

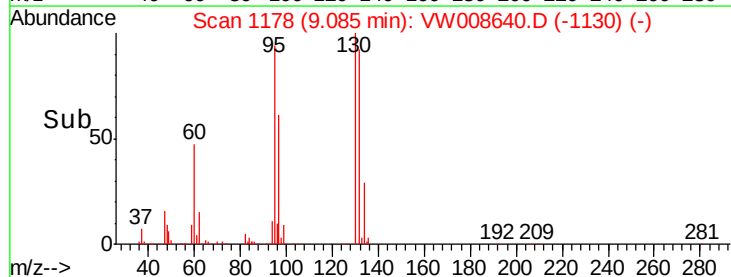
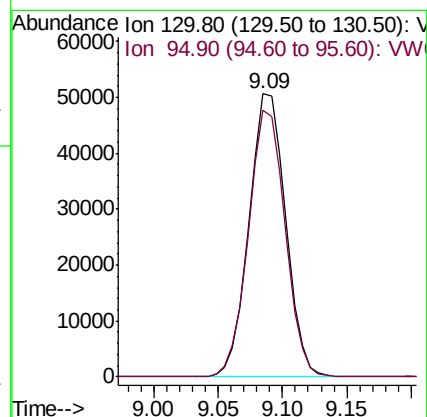
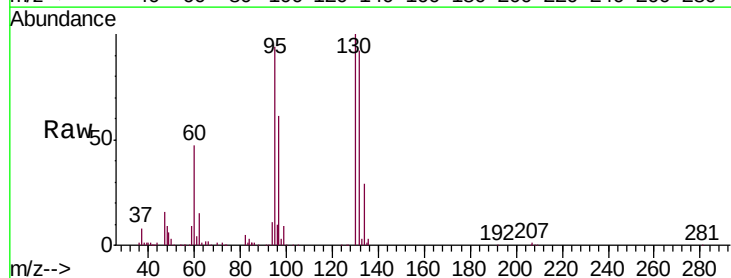
Acq: 13 Feb 2019 15:11

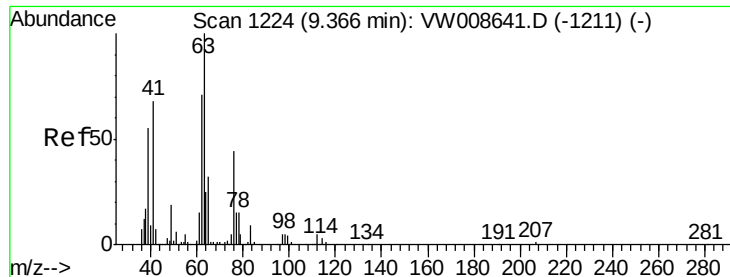
Tgt Ion: 130 Resp: 99440

Ion Ratio Lower Upper

130 100

95 94.3 0.0 193.4

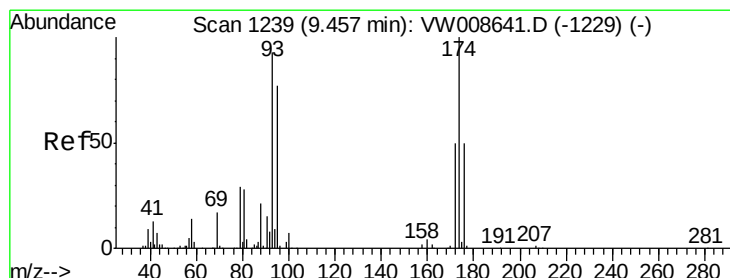
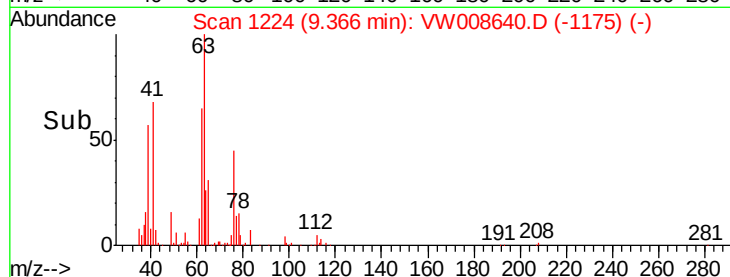
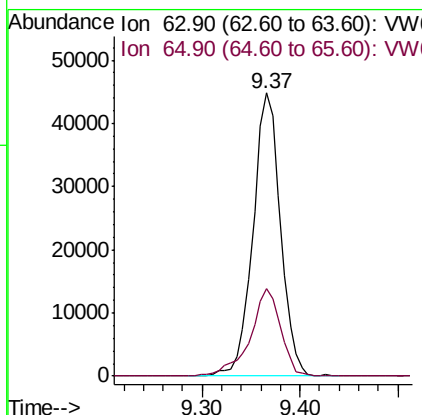
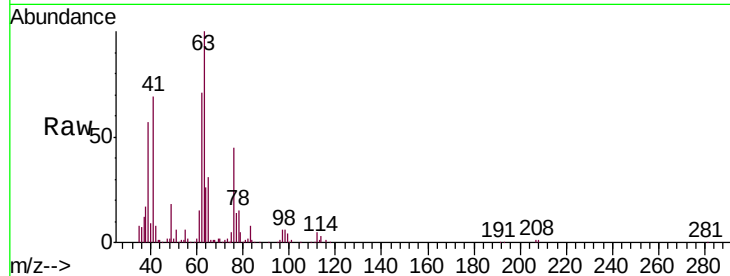




#45  
 1,2-Dichloropropane  
 Concen: 19.732 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

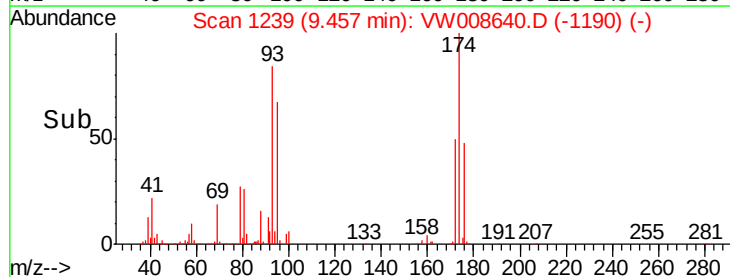
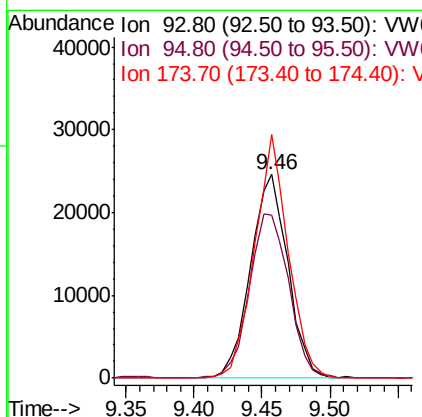
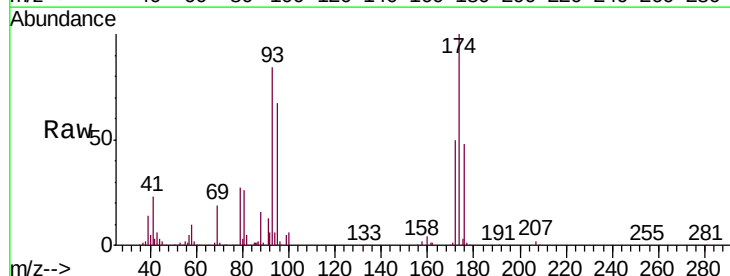
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC020

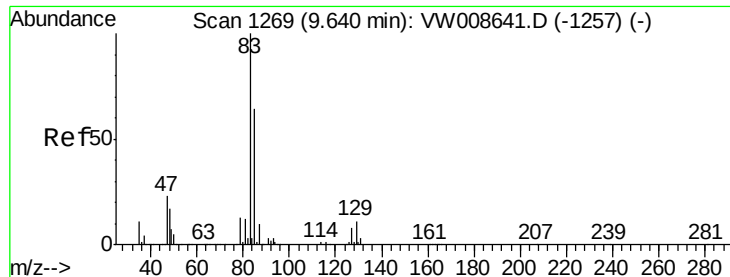
Tgt Ion: 63 Resp: 87303  
 Ion Ratio Lower Upper  
 63 100  
 65 31.1 25.4 38.0



#46  
 Dibromomethane  
 Concen: 19.412 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

Tgt Ion: 93 Resp: 47314  
 Ion Ratio Lower Upper  
 93 100  
 95 85.4 65.8 98.8  
 174 108.2 82.5 123.7





#47

Bromodichloromethane

Concen: 19.553 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

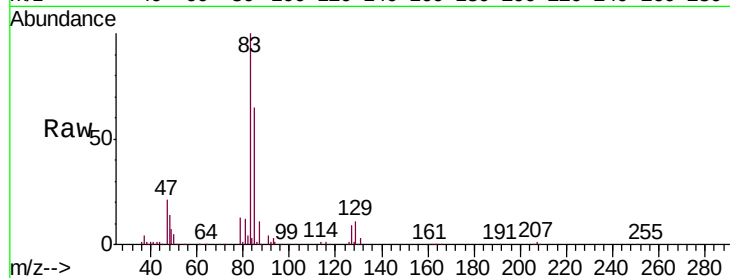
Tgt Ion: 83 Resp: 114531

Ion Ratio Lower Upper

83 100

85 65.3 51.2 76.8

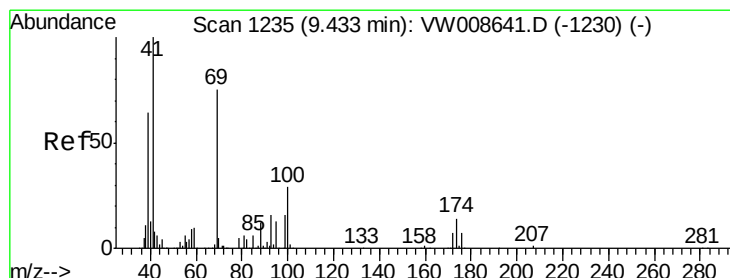
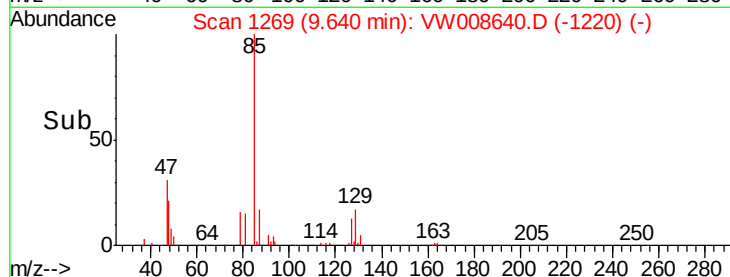
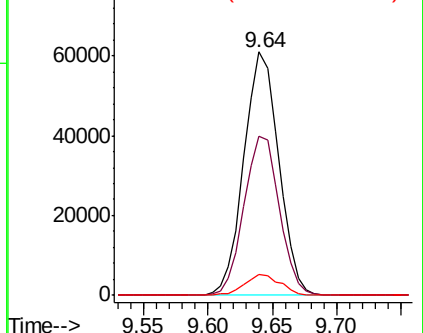
127 8.5 6.4 9.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 18.623 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

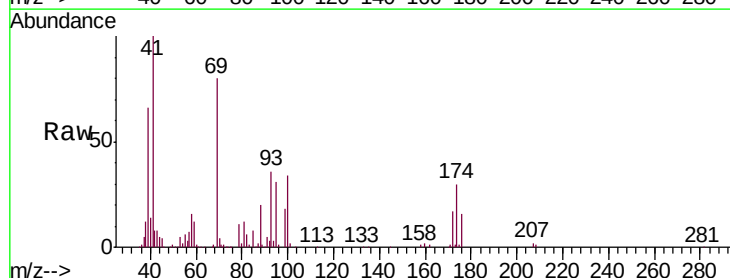
Tgt Ion: 41 Resp: 54342

Ion Ratio Lower Upper

41 100

69 84.3 64.1 96.1

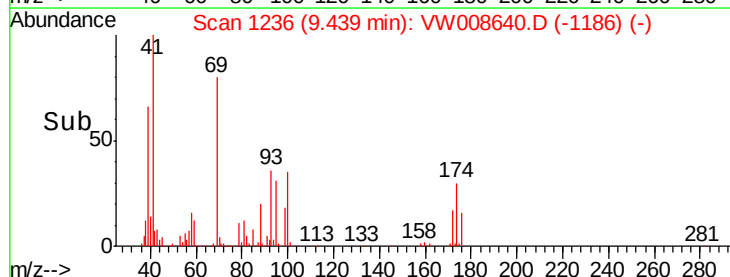
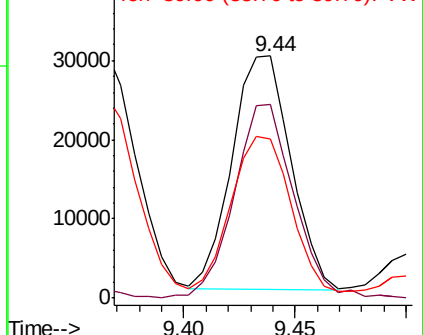
39 67.0 52.3 78.5

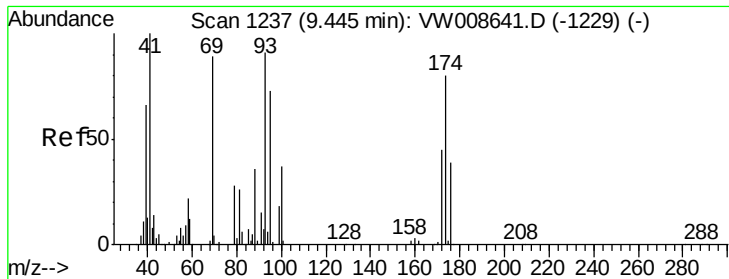


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

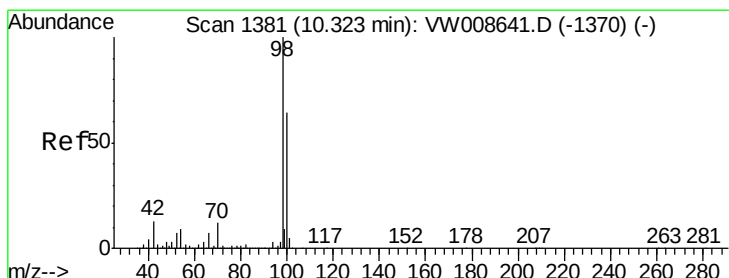
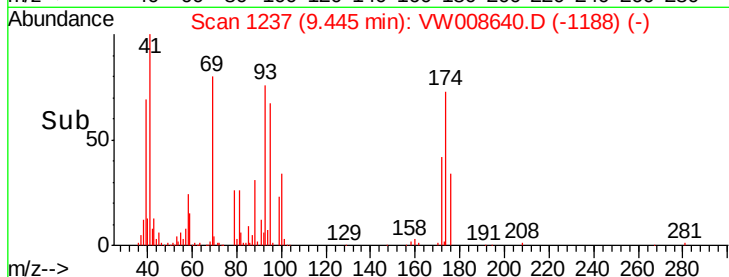
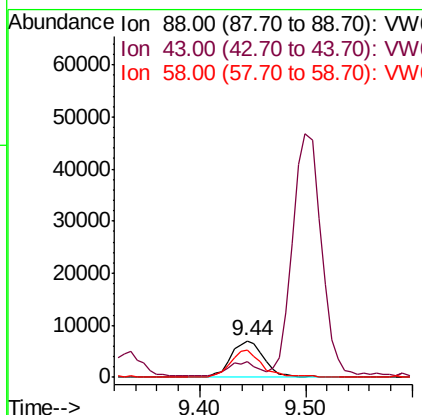
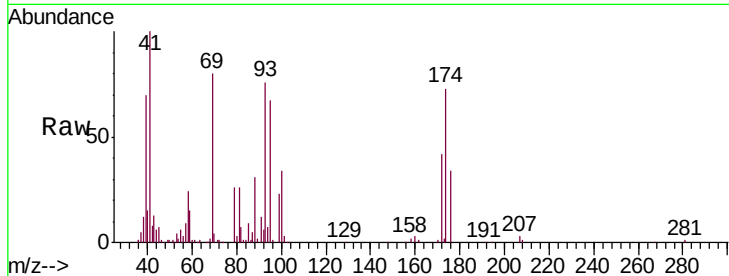




#49  
1,4-Dioxane  
Concen: 389.975 ug/l  
RT: 9.44 min Scan# 1237  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

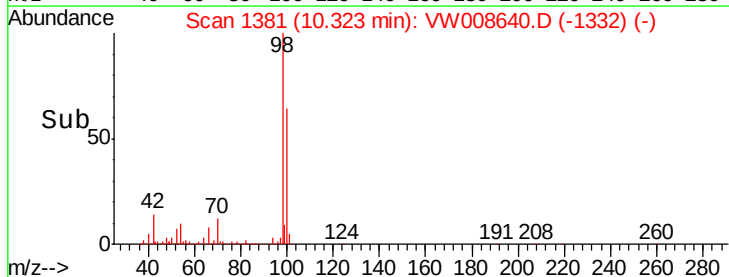
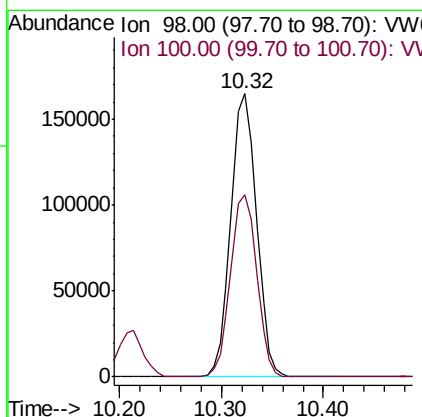
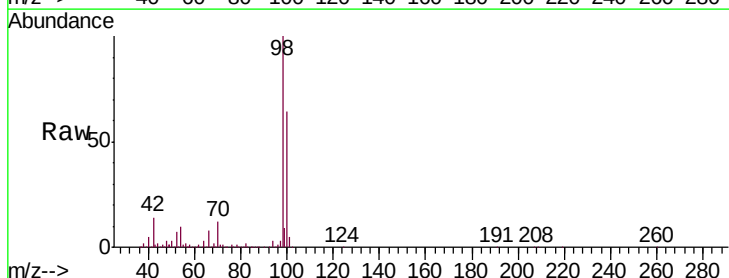
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

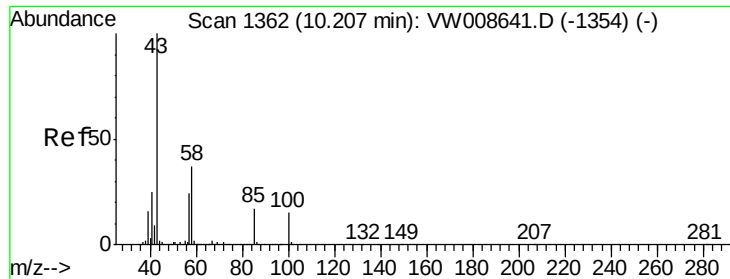
Tgt Ion: 88 Resp: 15172  
Ion Ratio Lower Upper  
88 100  
43 35.2 31.0 46.6  
58 69.1 57.0 85.6



#50  
Toluene-d8  
Concen: 18.458 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 98 Resp: 287871  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 94.482 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

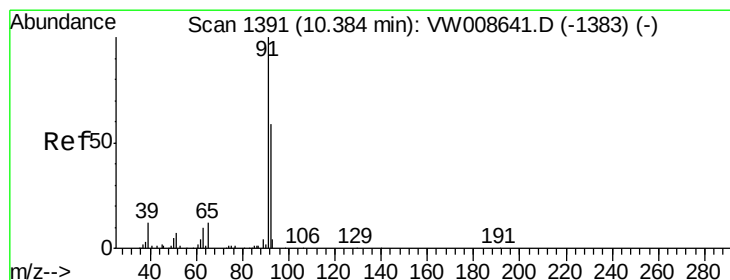
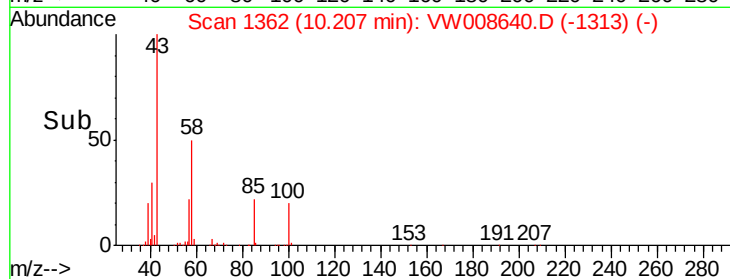
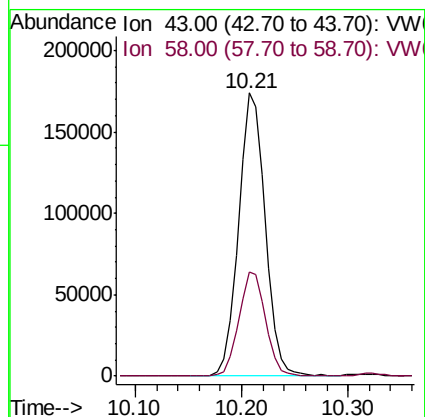
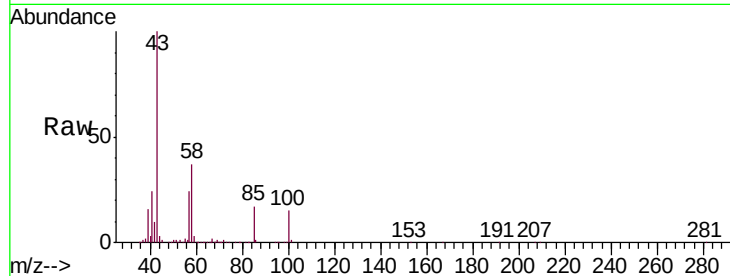
VSTDIC020

Tgt Ion: 43 Resp: 305602

Ion Ratio Lower Upper

43 100

58 37.0 29.0 43.6



#52

Toluene

Concen: 20.169 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW008640.D

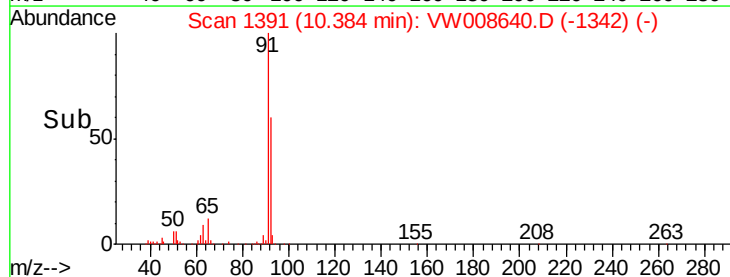
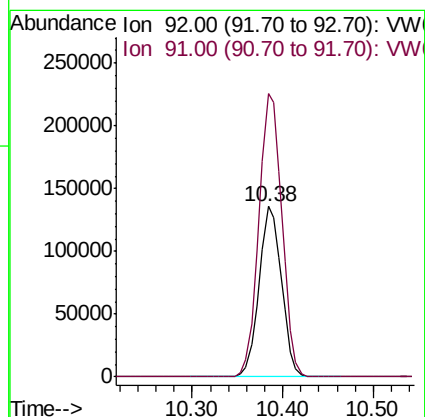
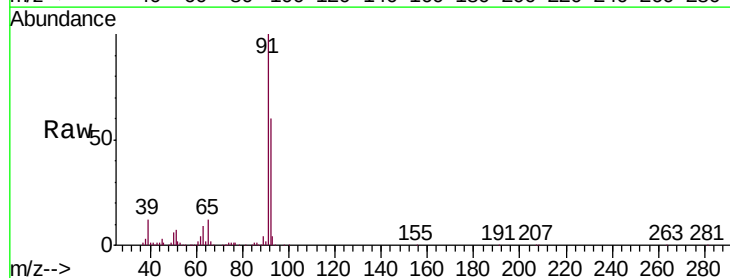
Acq: 13 Feb 2019 15:11

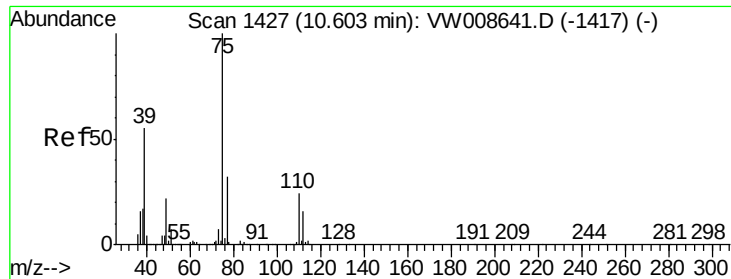
Tgt Ion: 92 Resp: 232618

Ion Ratio Lower Upper

92 100

91 170.6 135.8 203.6





#53

t-1,3-Dichloropropene

Concen: 19.477 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

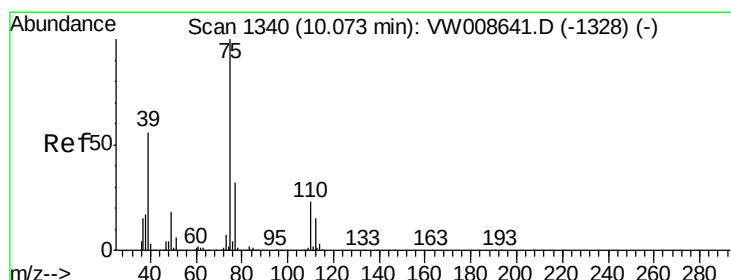
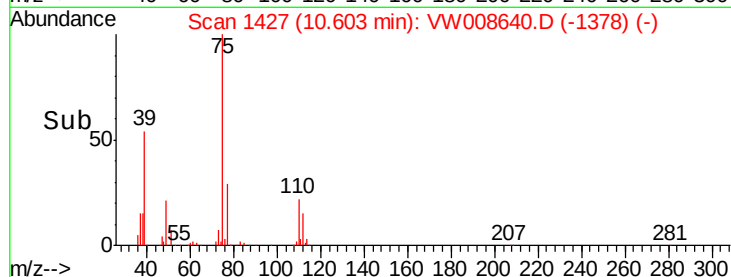
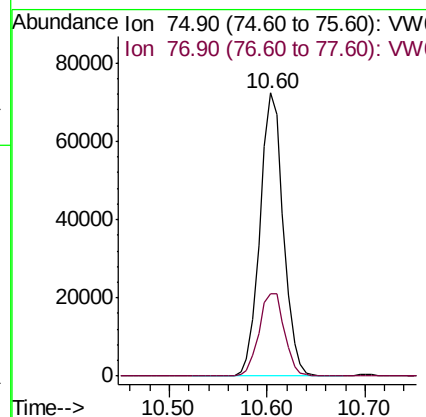
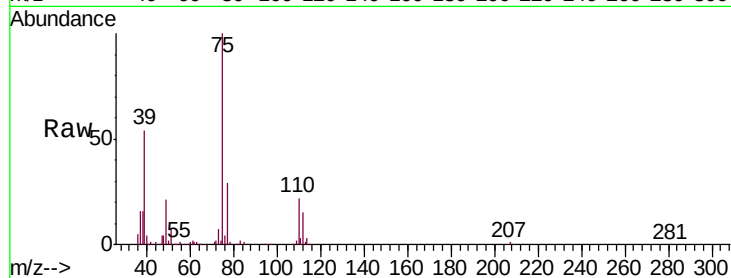
VSTDIC020

Tgt Ion: 75 Resp: 119853

Ion Ratio Lower Upper

75 100

77 29.2 25.7 38.5



#54

cis-1,3-Dichloropropene

Concen: 19.994 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

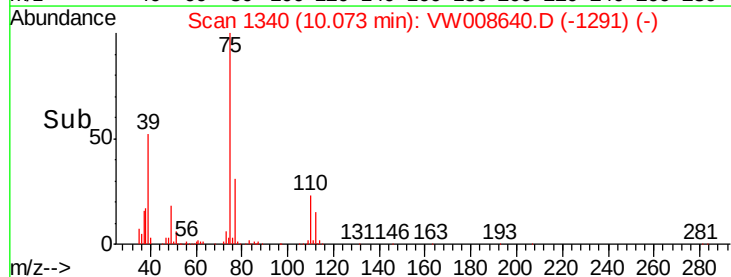
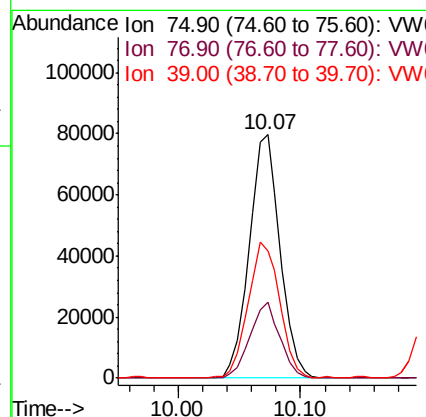
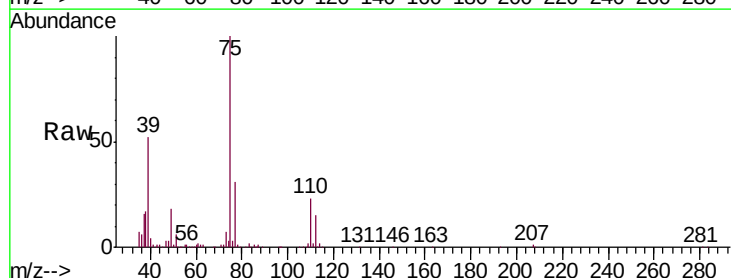
Tgt Ion: 75 Resp: 139474

Ion Ratio Lower Upper

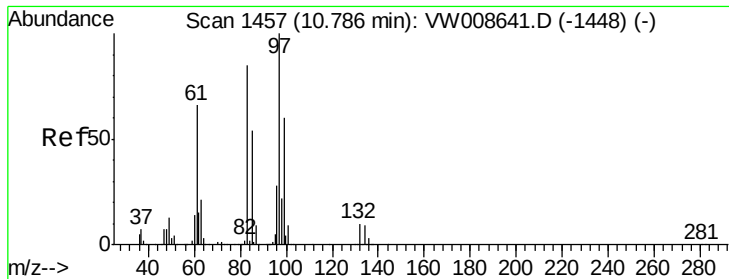
75 100

77 31.2 25.4 38.0

39 52.0 44.5 66.7



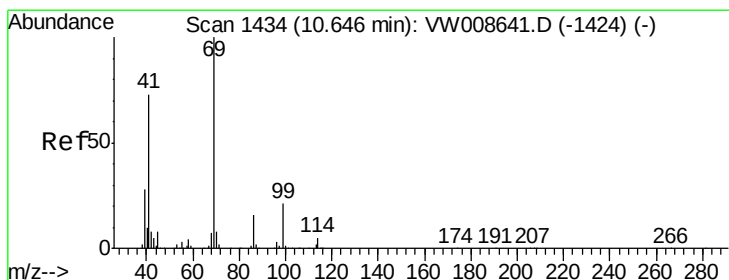
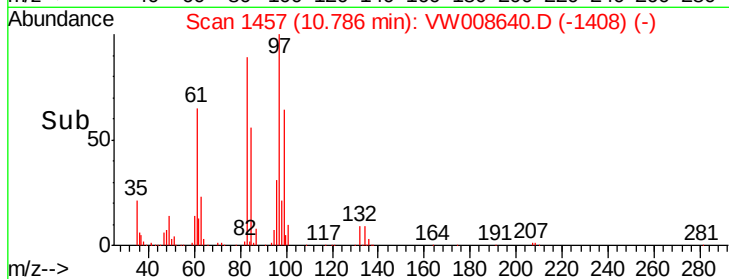
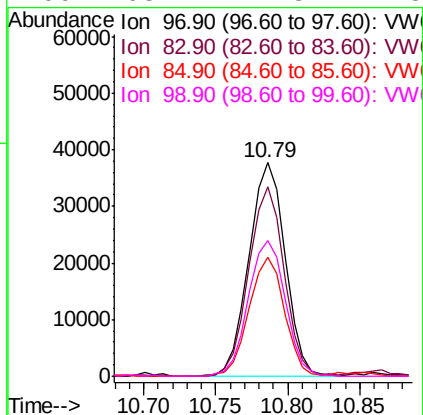
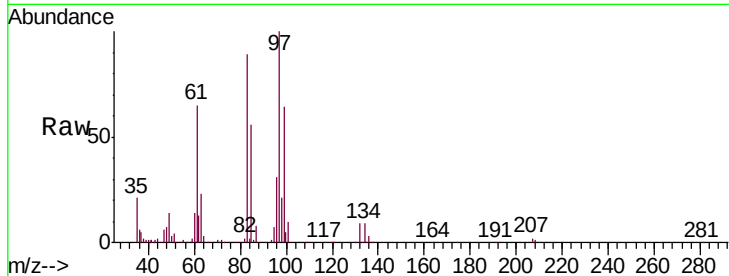




#55  
 1,1,2-Trichloroethane  
 Concen: 19.483 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

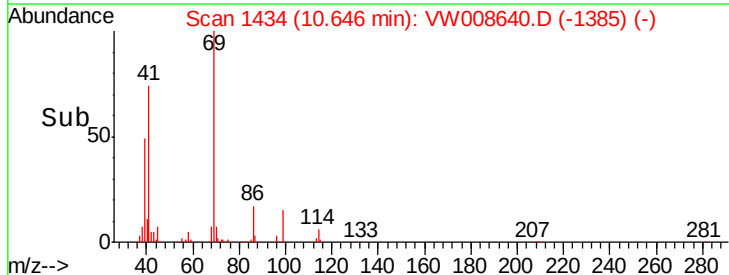
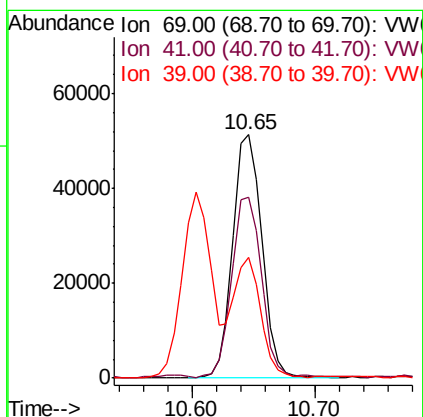
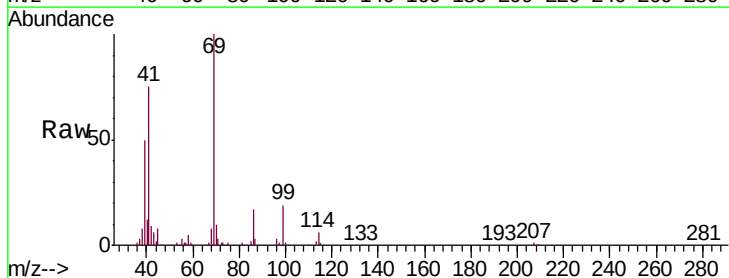
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTDIC020

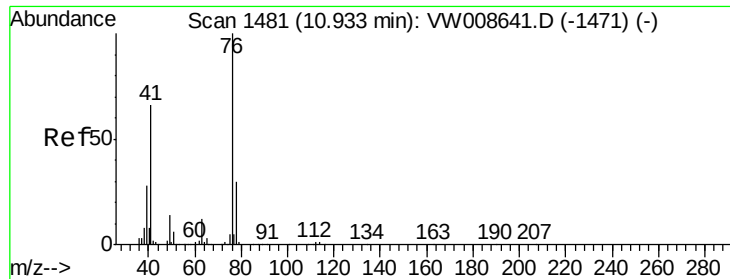
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 65155 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 88.6  | 68.4  | 102.6 |
| 85       | 55.9  | 43.1  | 64.7  |
| 99       | 63.7  | 47.8  | 71.8  |



#56  
 Ethyl methacrylate  
 Concen: 19.157 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 85069 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 74.7  | 59.0  | 88.4  |
| 39       | 43.9  | 34.4  | 51.6  |

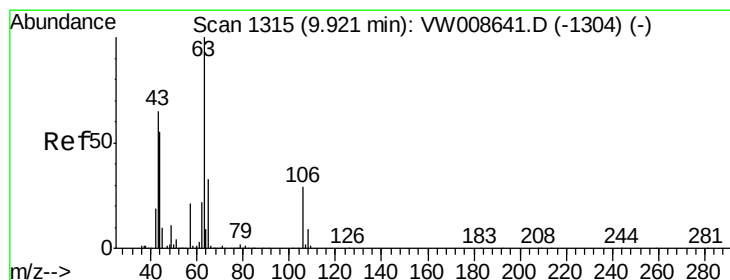
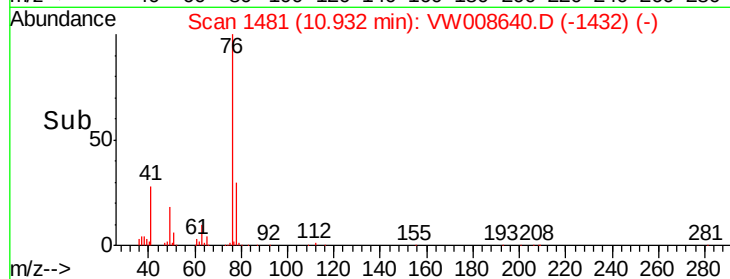
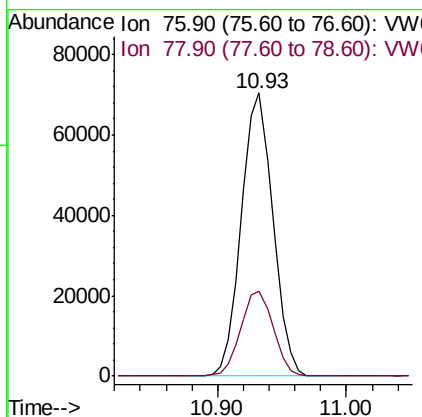
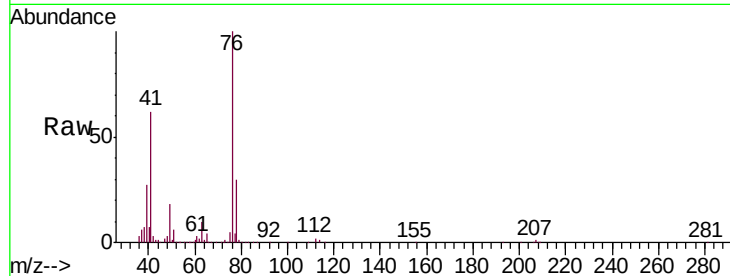




#57  
 1,3-Dichloropropane  
 Concen: 20.131 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

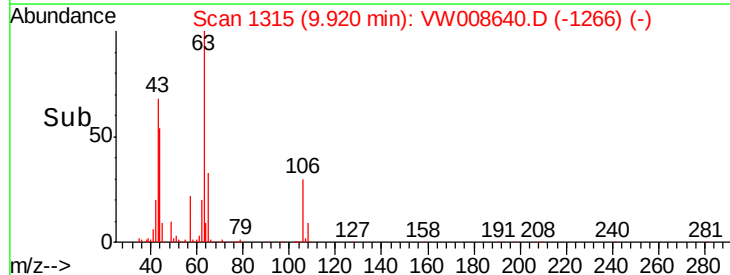
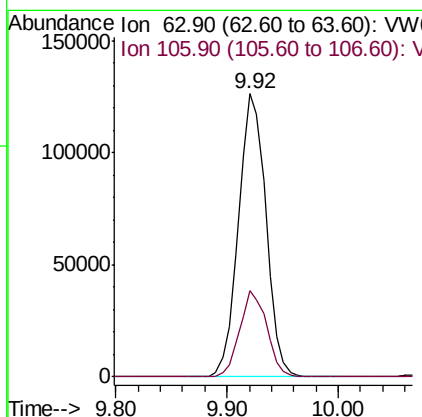
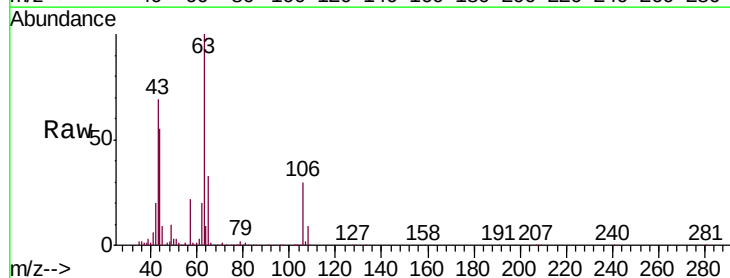
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC020

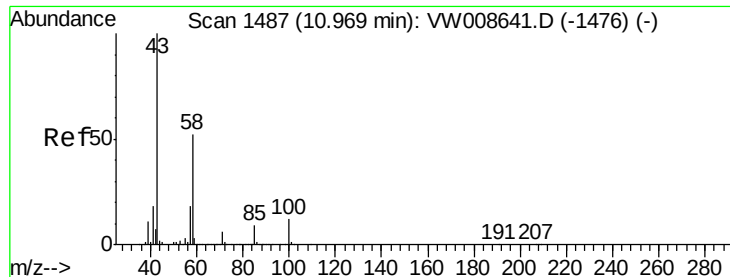
Tgt Ion: 76 Resp: 119449  
 Ion Ratio Lower Upper  
 76 100  
 78 31.1 25.4 38.0



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 101.526 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

Tgt Ion: 63 Resp: 216276  
 Ion Ratio Lower Upper  
 63 100  
 106 30.0 23.4 35.2





#59

2-Hexanone

Concen: 93.822 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

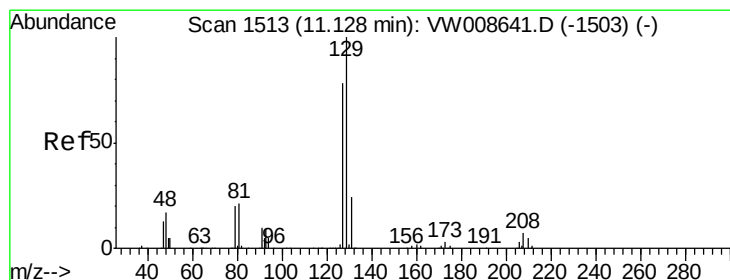
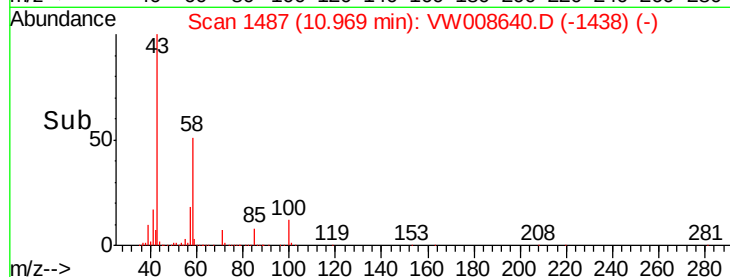
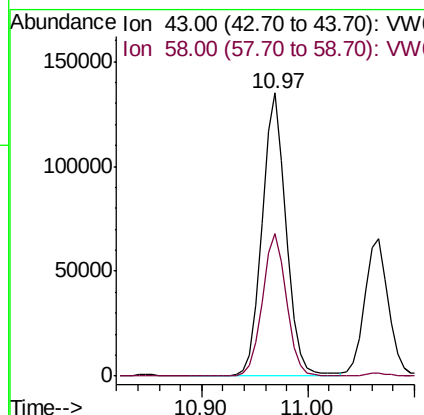
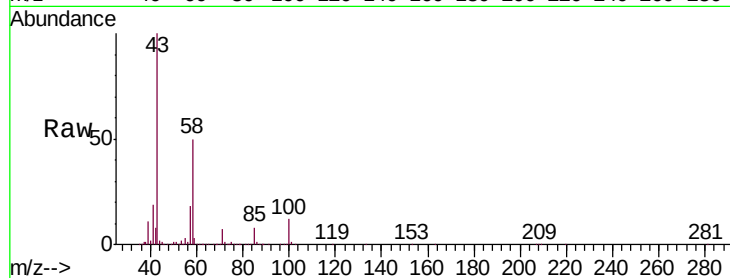
VSTDIC020

Tgt Ion: 43 Resp: 213185

Ion Ratio Lower Upper

43 100

58 50.7 25.6 76.6



#60

Dibromochloromethane

Concen: 19.933 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW008640.D

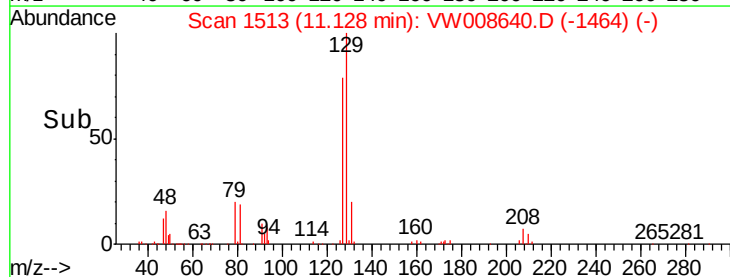
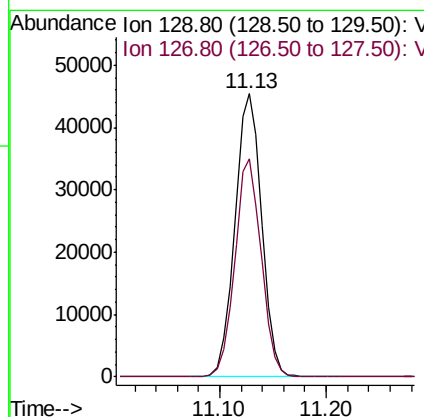
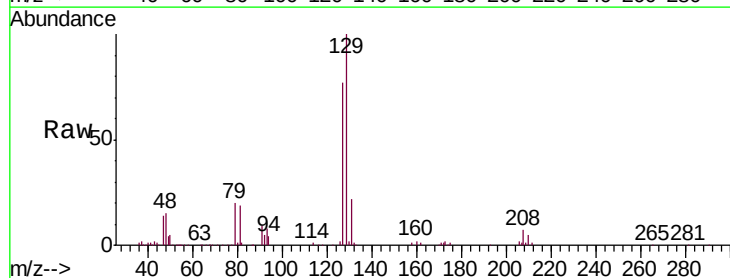
Acq: 13 Feb 2019 15:11

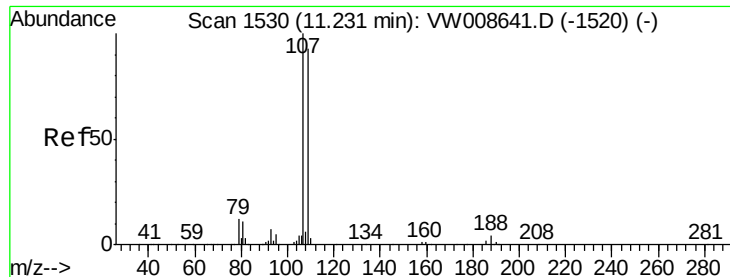
Tgt Ion: 129 Resp: 79762

Ion Ratio Lower Upper

129 100

127 75.8 38.5 115.3





#61

1,2-Dibromoethane

Concen: 19.979 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

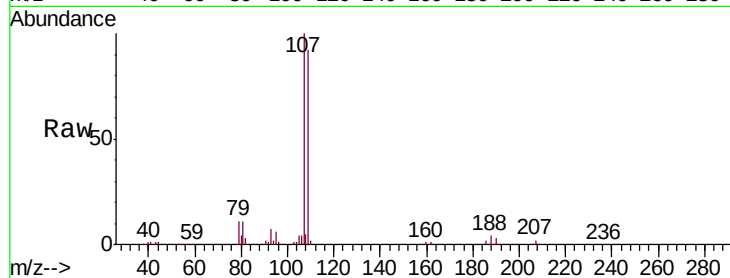
VSTDIC020

Tgt Ion: 107 Resp: 65787

Ion Ratio Lower Upper

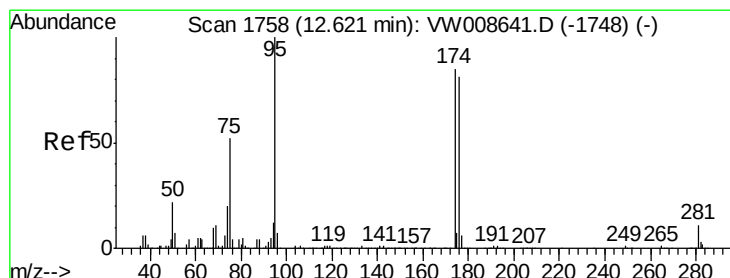
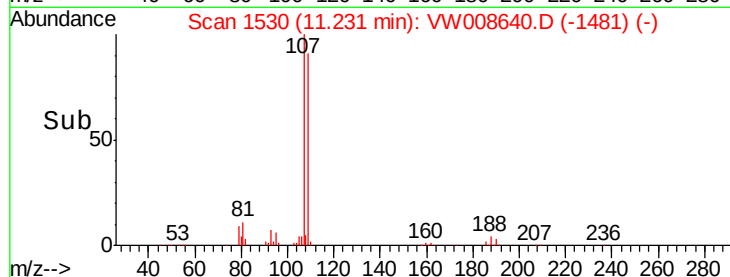
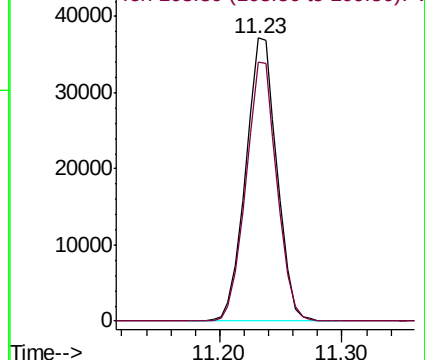
107 100

109 90.9 74.8 112.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 18.518 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

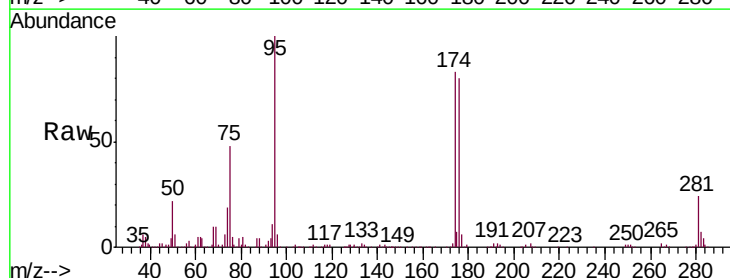
Tgt Ion: 95 Resp: 108783

Ion Ratio Lower Upper

95 100

174 84.4 0.0 163.2

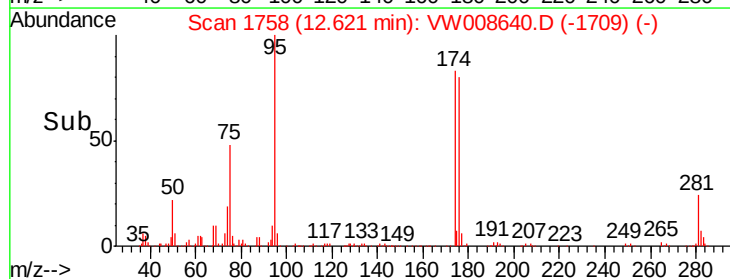
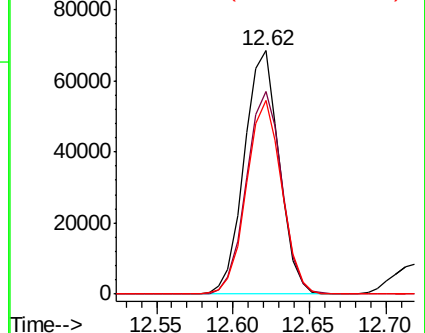
176 80.3 0.0 158.0

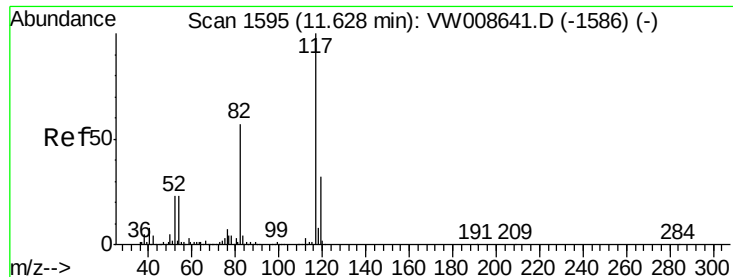


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

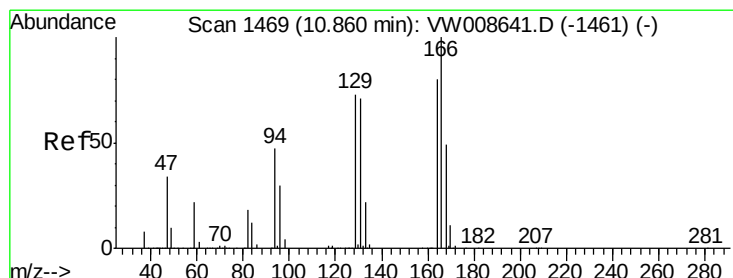
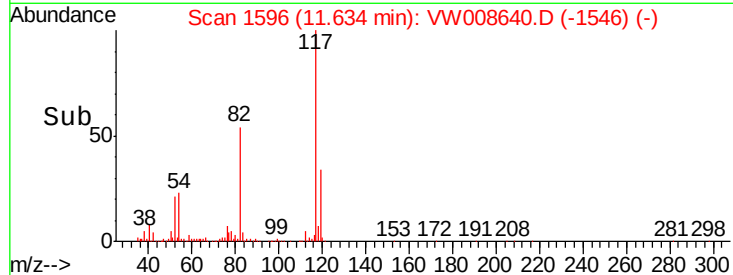
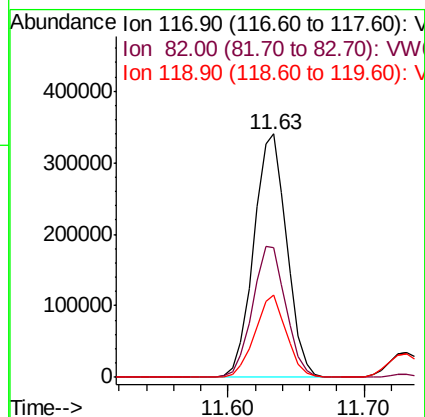
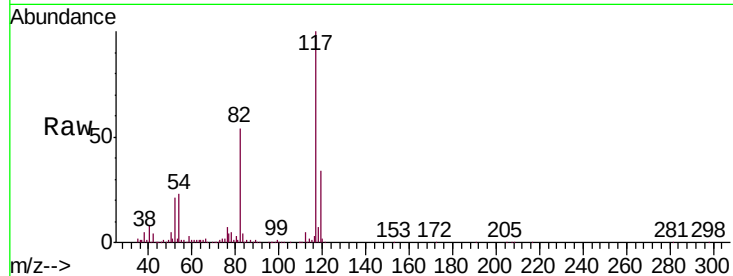




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.01 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

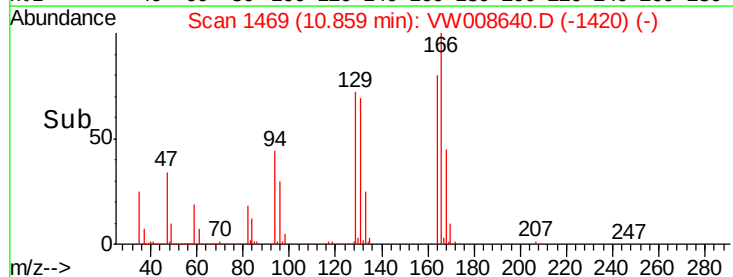
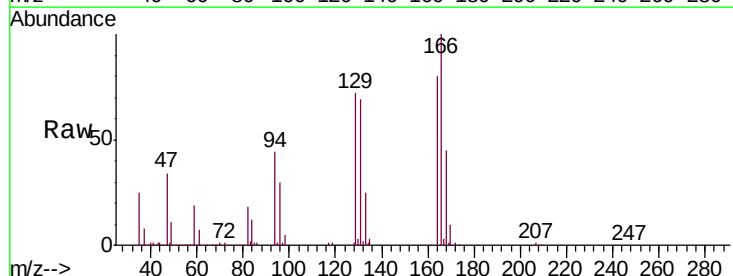
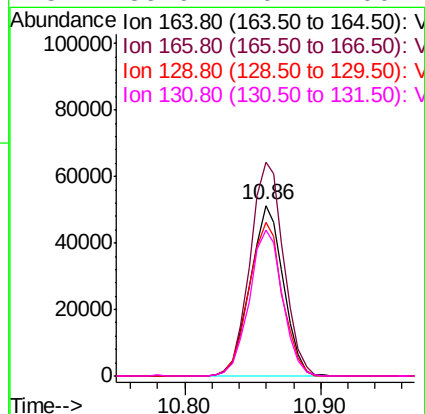
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

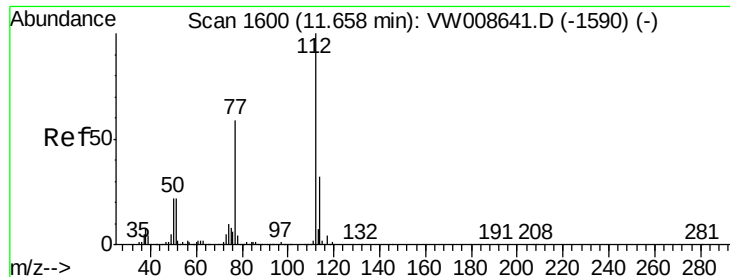
Tgt Ion:117 Resp: 578243  
Ion Ratio Lower Upper  
117 100  
82 53.5 45.6 68.4  
119 33.6 25.7 38.5



#64  
Tetrachloroethene  
Concen: 20.389 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion:164 Resp: 87673  
Ion Ratio Lower Upper  
164 100  
166 125.2 100.2 150.2  
129 89.8 73.6 110.4  
131 85.9 70.7 106.1





#65

Chlorobenzene

Concen: 20.377 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

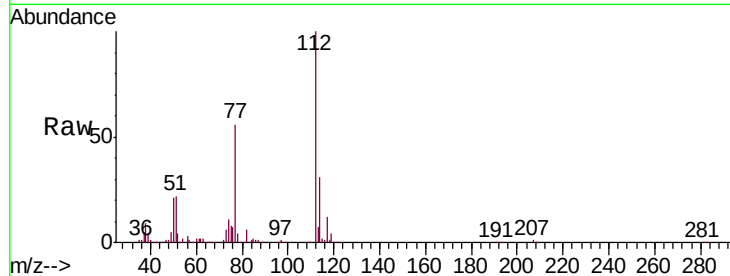
VSTDIC020

Tgt Ion:112 Resp: 253961

Ion Ratio Lower Upper

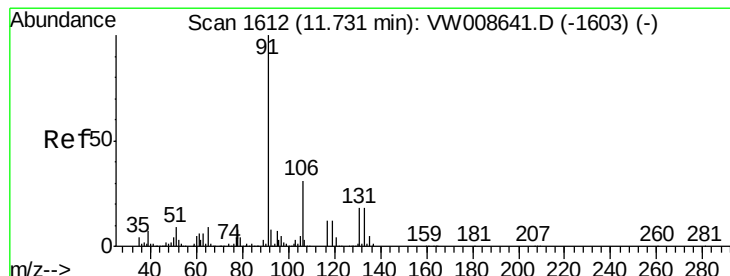
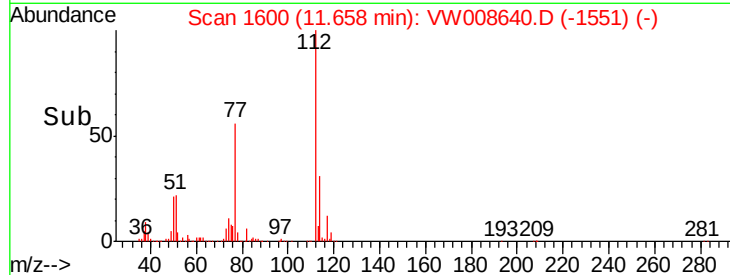
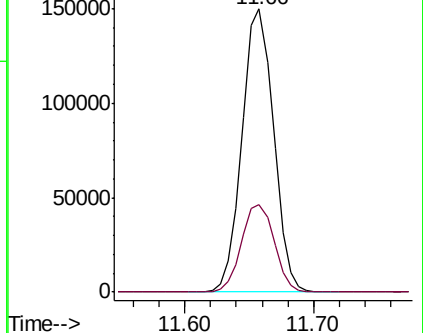
112 100

114 31.0 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.891 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

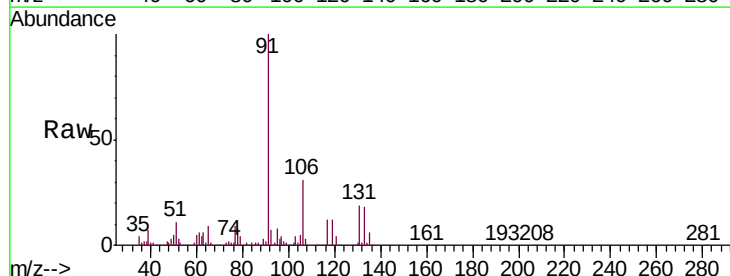
Tgt Ion:131 Resp: 87821

Ion Ratio Lower Upper

131 100

133 97.4 47.8 143.4

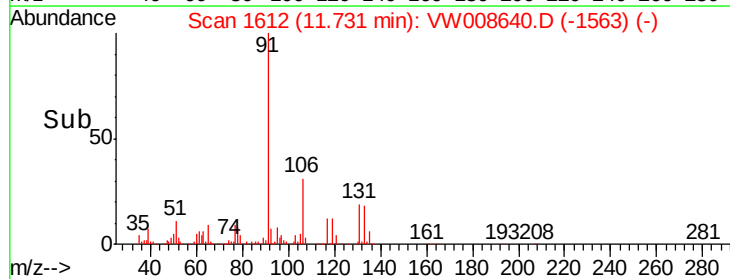
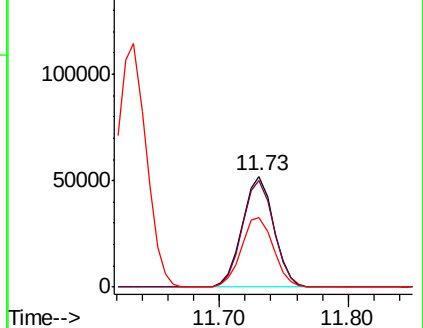
119 64.5 31.6 94.8

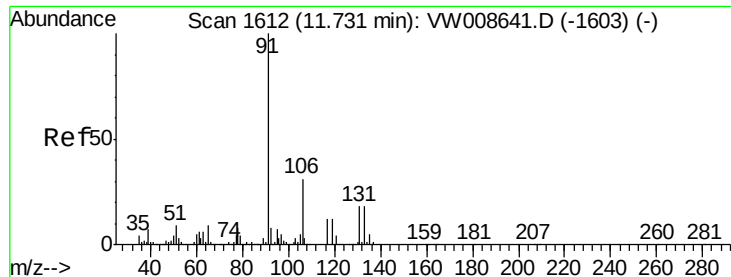


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

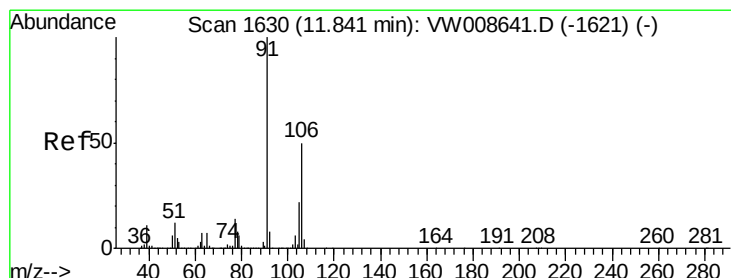
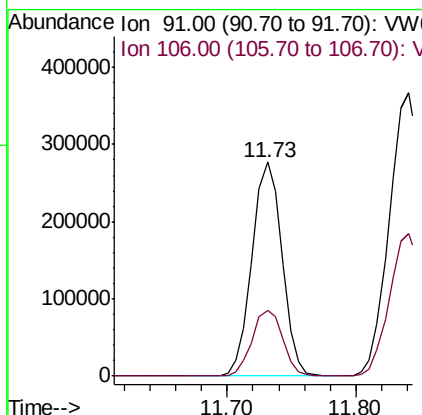
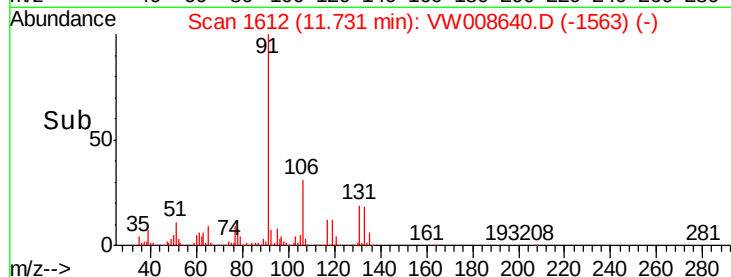
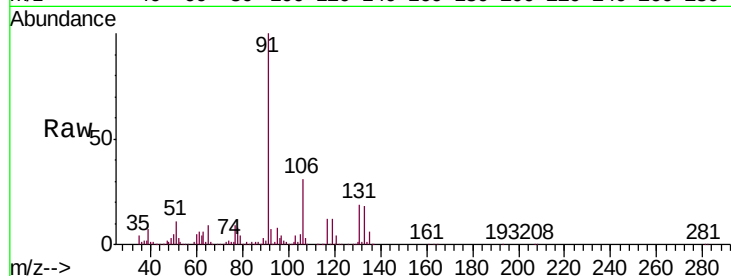




#67  
Ethyl Benzene  
Concen: 20.091 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

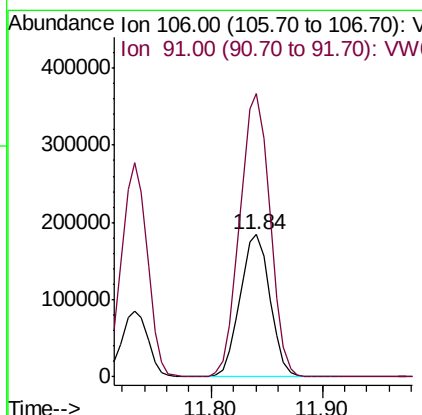
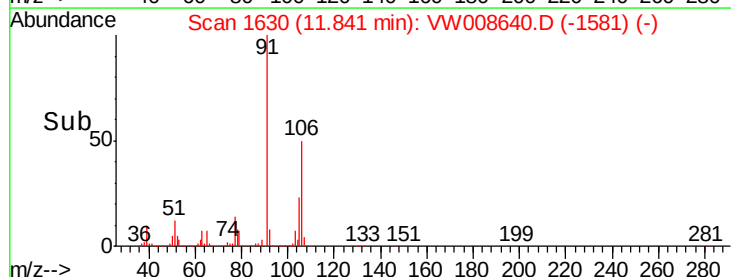
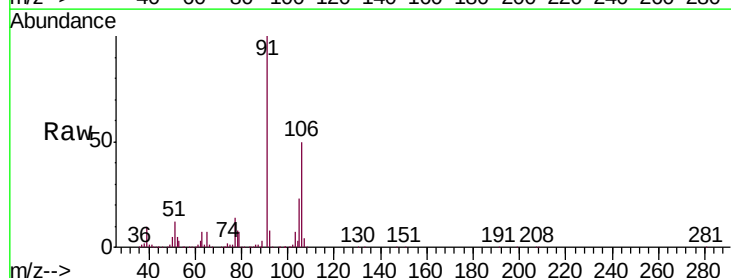
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

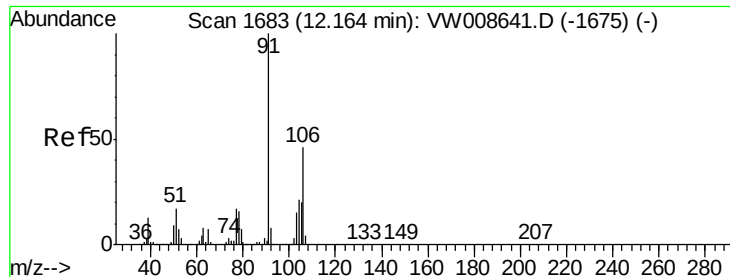
Tgt Ion: 91 Resp: 446046  
Ion Ratio Lower Upper  
91 100  
106 30.8 24.5 36.7



#68  
m/p-Xylenes  
Concen: 40.068 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 106 Resp: 346112  
Ion Ratio Lower Upper  
106 100  
91 199.4 161.0 241.4

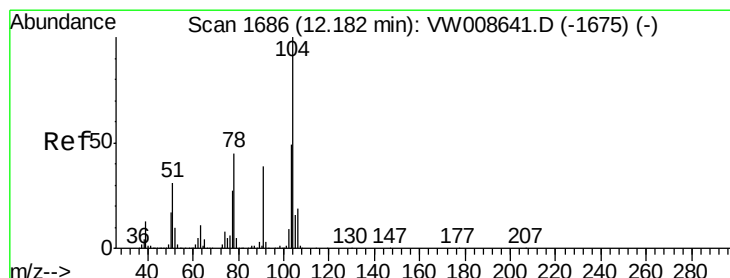
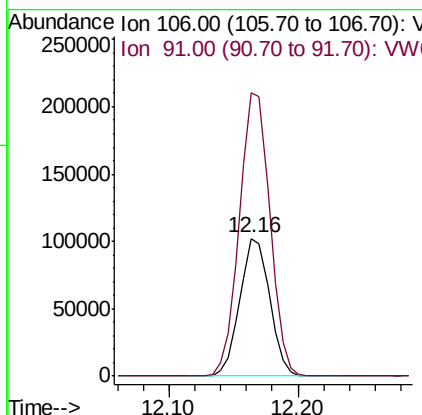
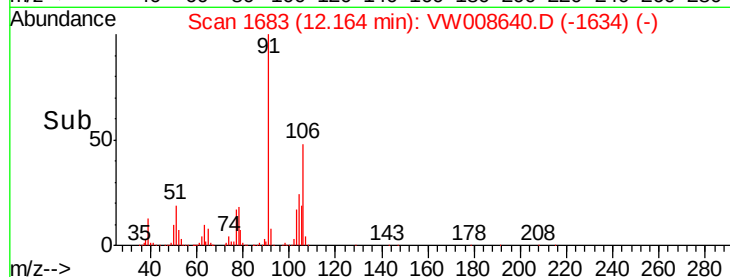
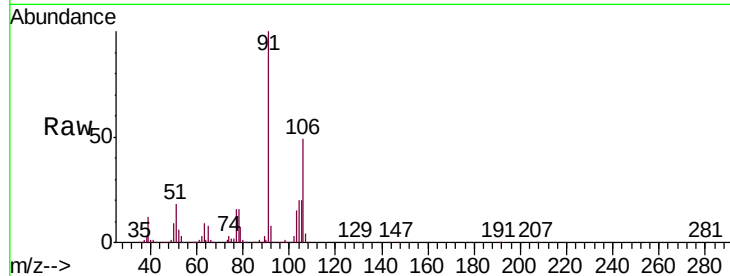




#69  
o-Xylene  
Concen: 20.121 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

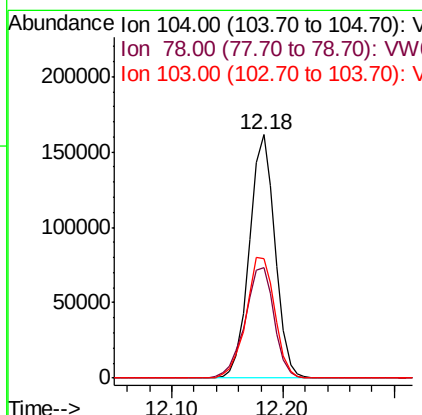
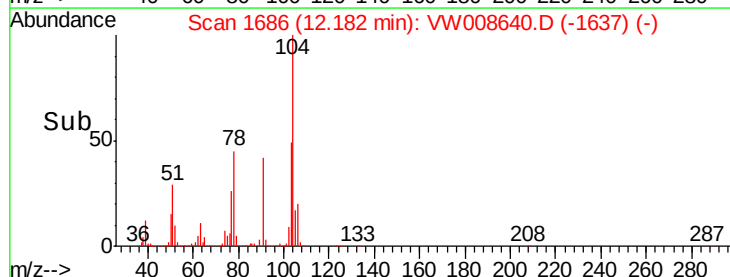
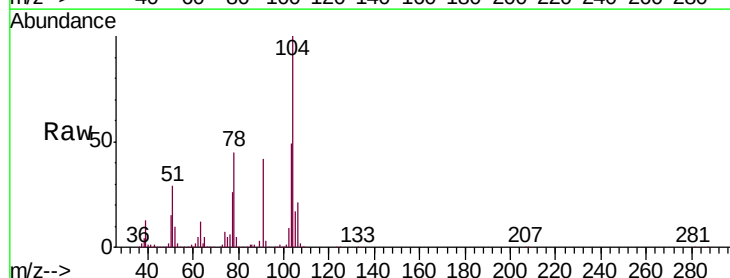
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

Tgt Ion:106 Resp: 164290  
Ion Ratio Lower Upper  
106 100  
91 210.0 106.7 320.1

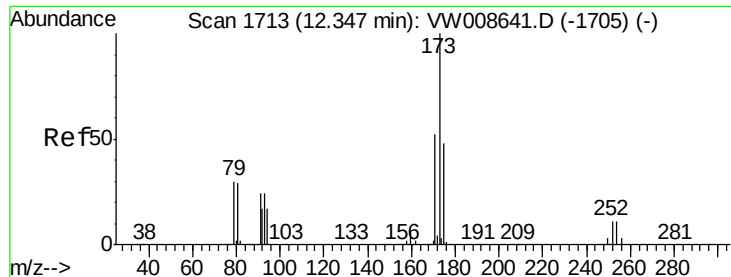


#70  
Styrene  
Concen: 19.434 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion:104 Resp: 259181  
Ion Ratio Lower Upper  
104 100  
78 51.5 41.5 62.3  
103 55.7 43.5 65.3







#71

Bromoform

Concen: 19.352 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

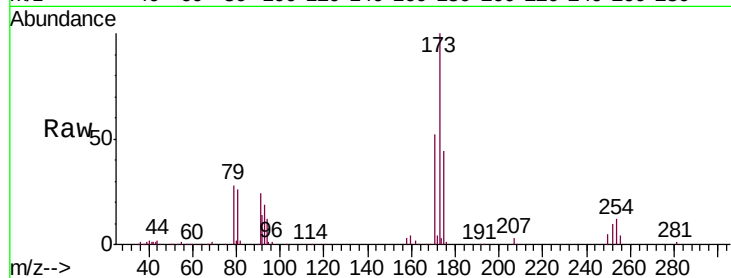
Tgt Ion:173 Resp: 46038

Ion Ratio Lower Upper

173 100

175 48.3 24.9 74.7

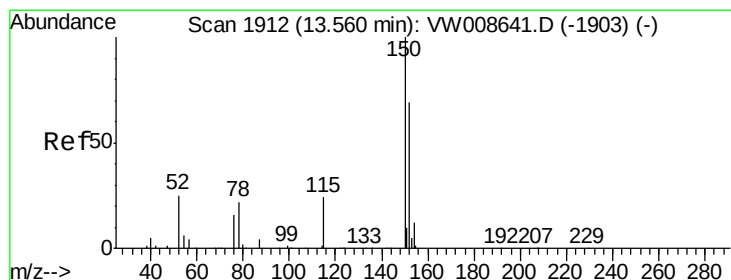
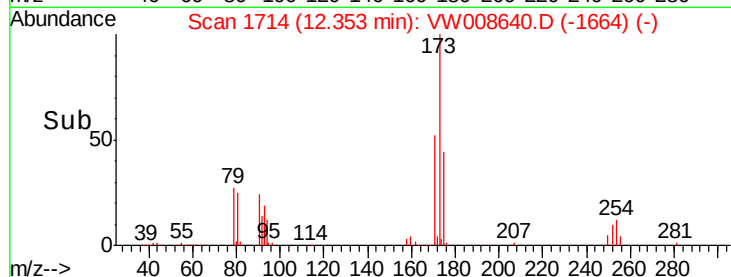
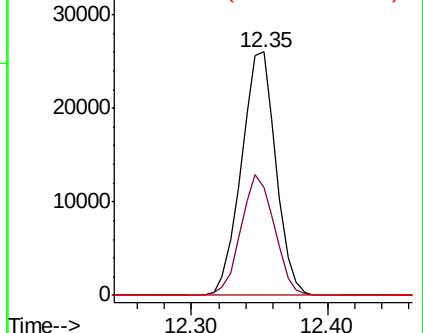
254 0.0 0.1 0.1#



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: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

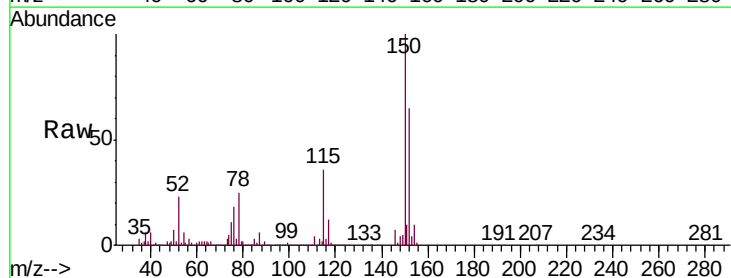
Tgt Ion:152 Resp: 307312

Ion Ratio Lower Upper

152 100

115 56.6 29.3 87.8

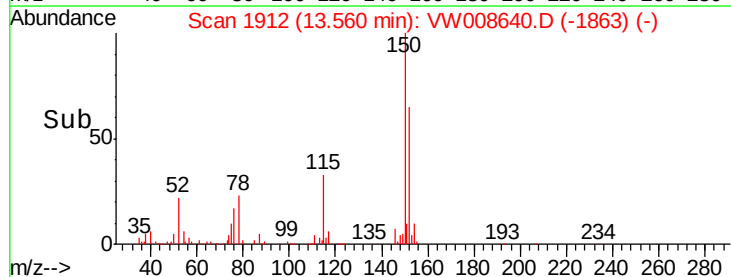
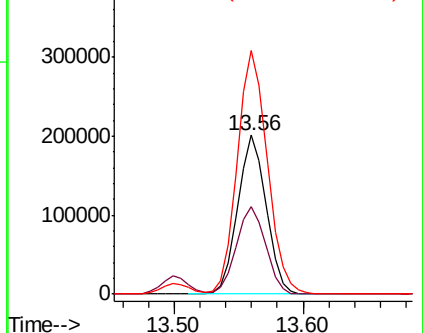
150 161.9 0.0 352.8

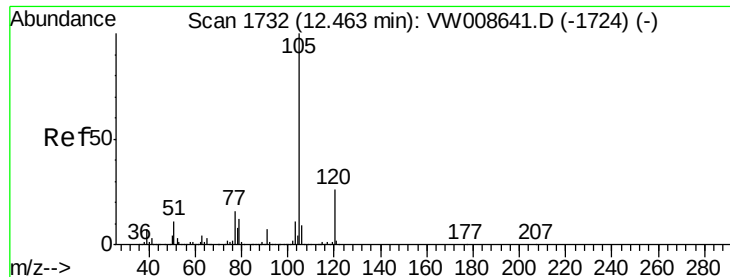


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.580 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

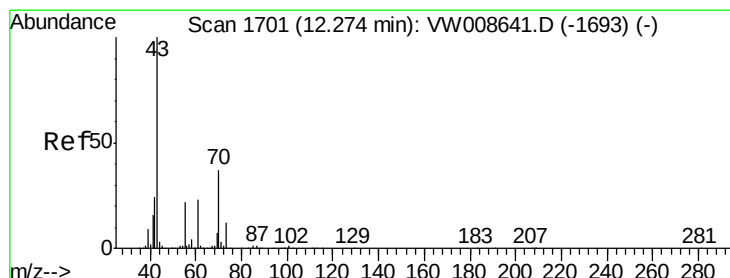
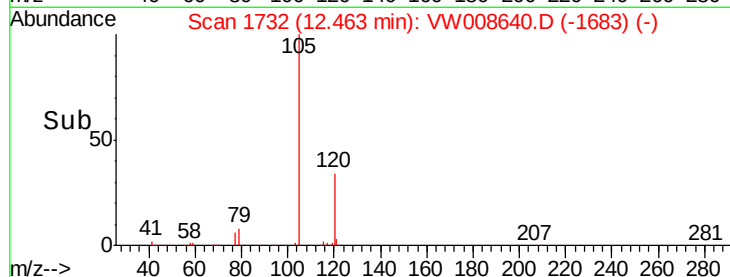
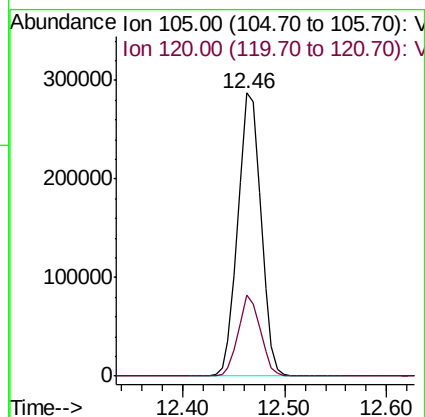
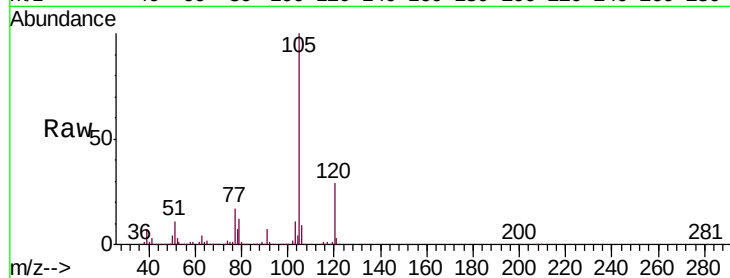
VSTDIC020

Tgt Ion: 105 Resp: 448201

Ion Ratio Lower Upper

105 100

120 27.4 13.2 39.6



#74

N-ethyl acetate

Concen: 18.759 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Tgt Ion: 43 Resp: 116120

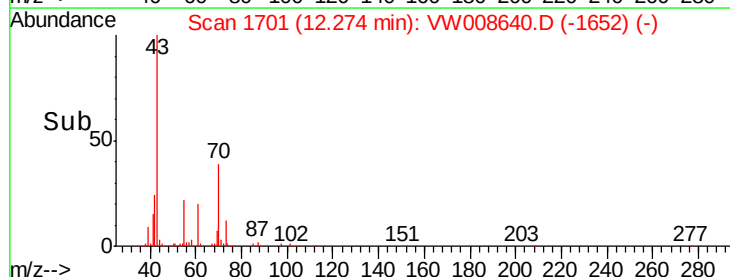
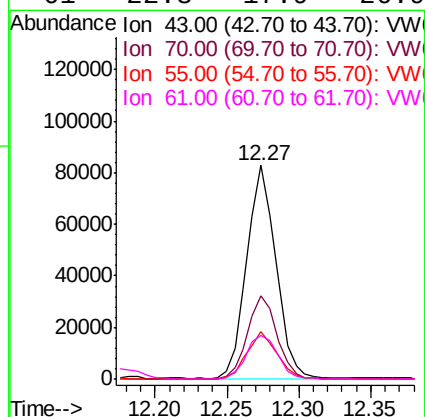
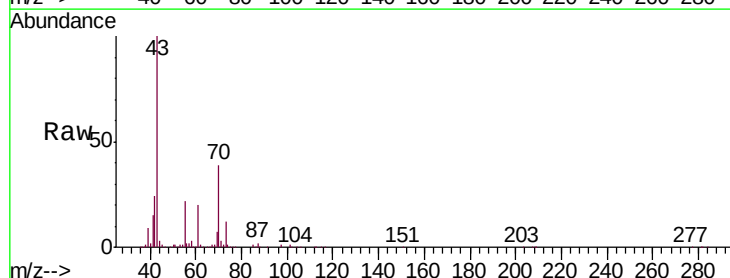
Ion Ratio Lower Upper

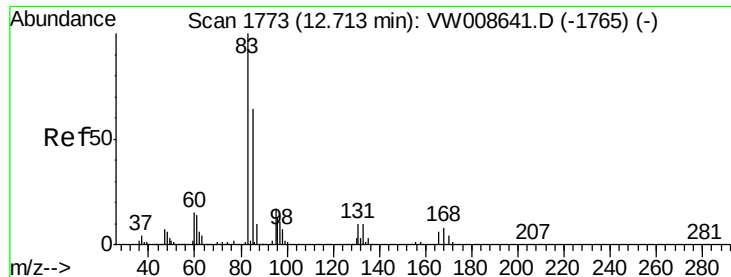
43 100

70 39.4 30.5 45.7

55 23.3 17.6 26.4

61 22.3 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 19.443 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

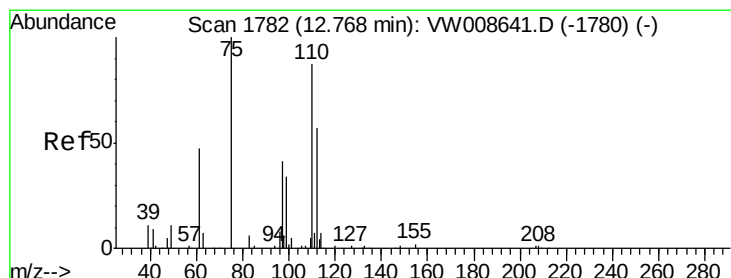
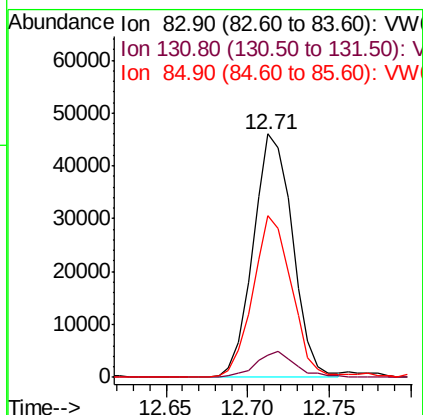
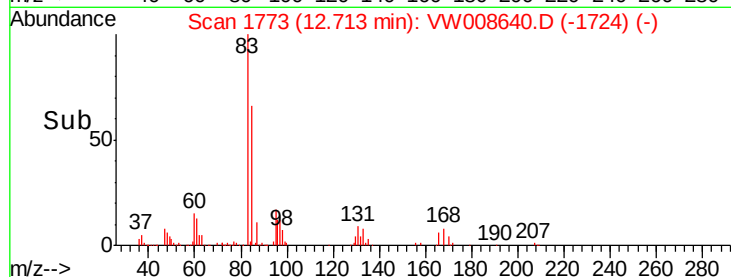
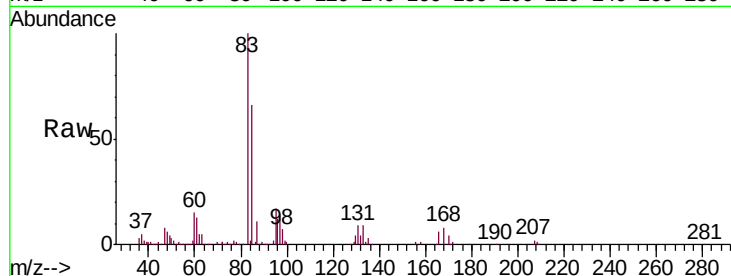
Tgt Ion: 83 Resp: 77437

Ion Ratio Lower Upper

83 100

131 10.6 5.5 16.7

85 65.2 31.8 95.3



#76

1,2,3-Trichloropropane

Concen: 28.216 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW008640.D

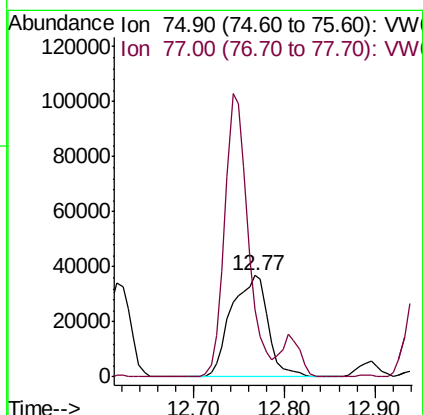
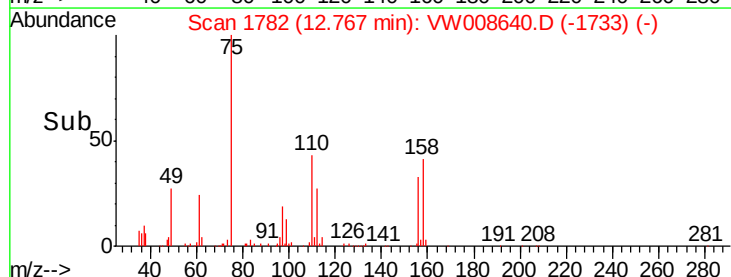
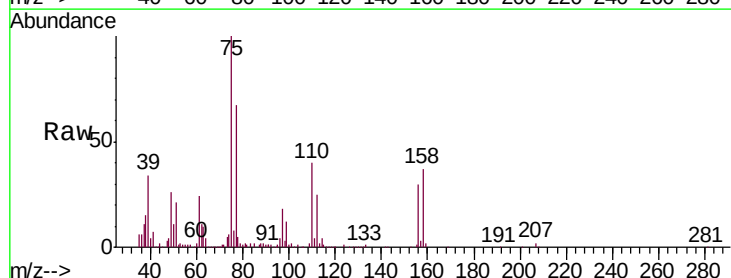
Acq: 13 Feb 2019 15:11

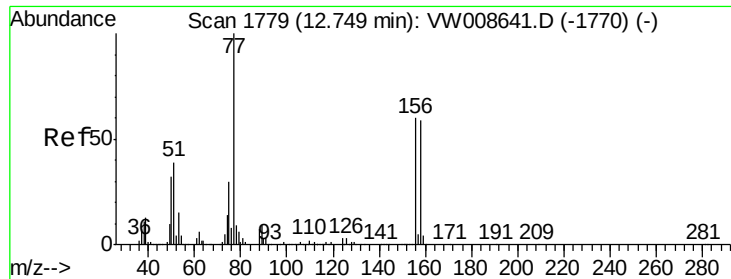
Tgt Ion: 75 Resp: 103492

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

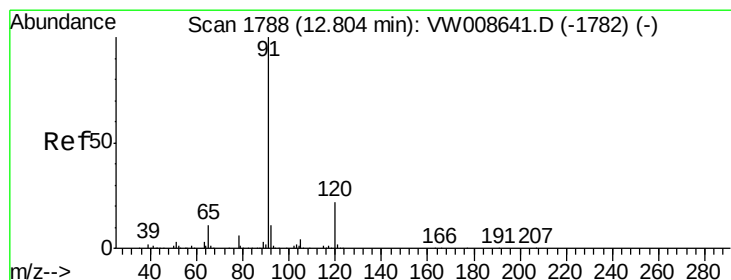
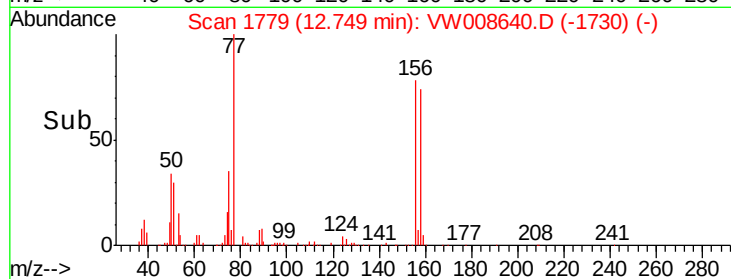
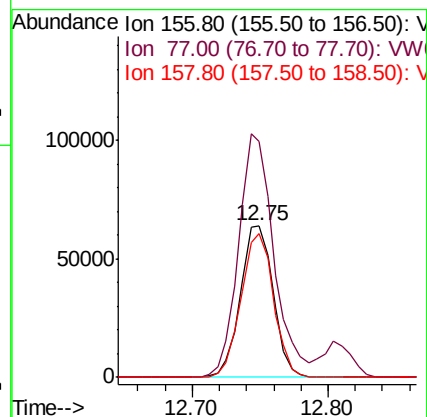
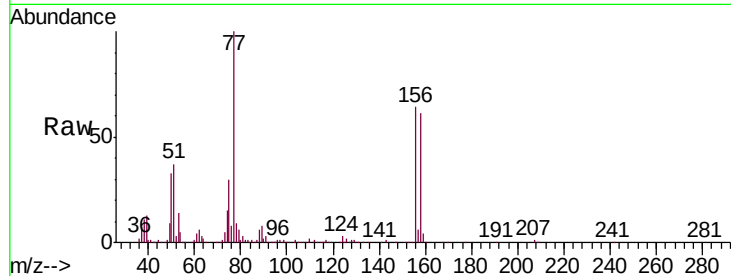




#77  
Bromobenzene  
Concen: 20.439 ug/l  
RT: 12.75 min Scan# 1779  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

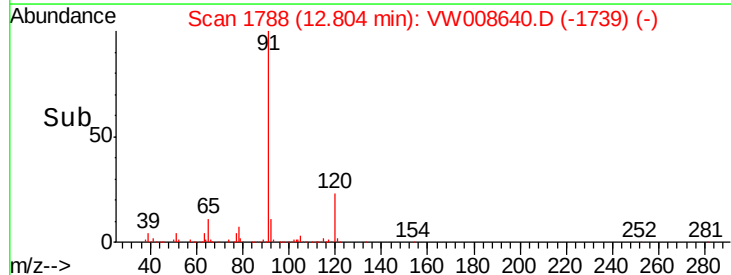
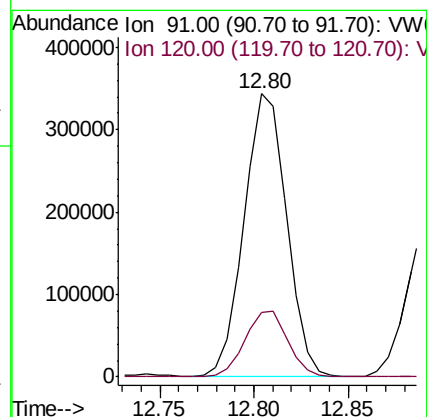
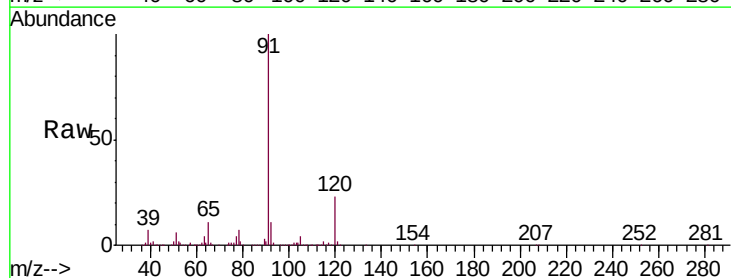
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTDIC020

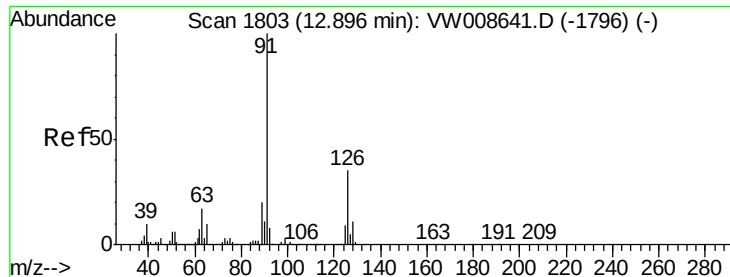
Tgt Ion: 156 Resp: 107550  
Ion Ratio Lower Upper  
156 100  
77 173.0 93.2 279.5  
158 94.6 48.5 145.5



#78  
n-propylbenzene  
Concen: 19.772 ug/l  
RT: 12.80 min Scan# 1788  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion: 91 Resp: 537785  
Ion Ratio Lower Upper  
91 100  
120 23.5 11.4 34.2





#79

2-Chlorotoluene

Concen: 19.923 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

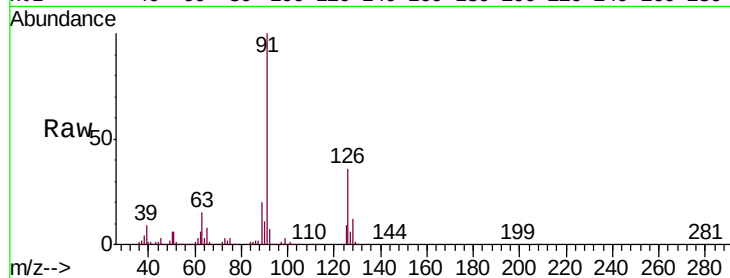
VSTDIC020

Tgt Ion: 91 Resp: 306257

Ion Ratio Lower Upper

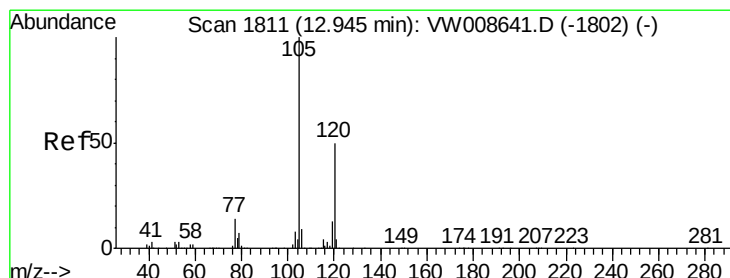
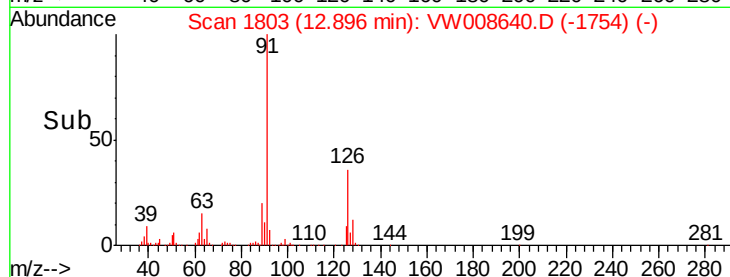
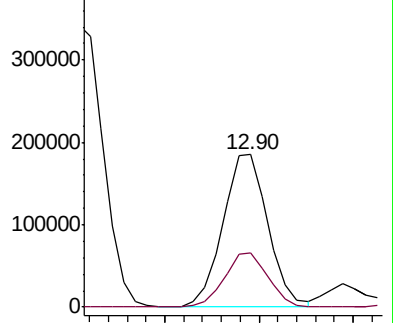
91 100

126 34.7 17.0 50.9



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: 19.921 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW008640.D

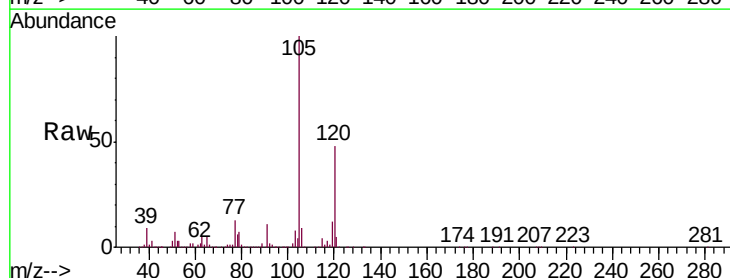
Acq: 13 Feb 2019 15:11

Tgt Ion: 105 Resp: 378771

Ion Ratio Lower Upper

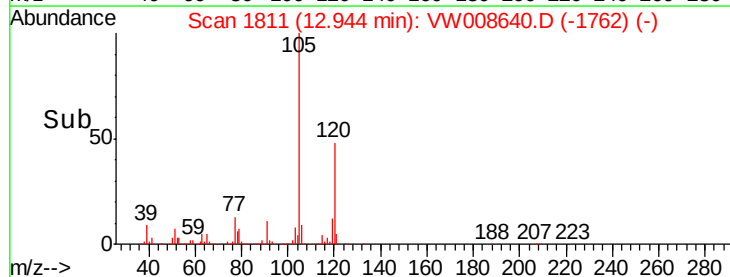
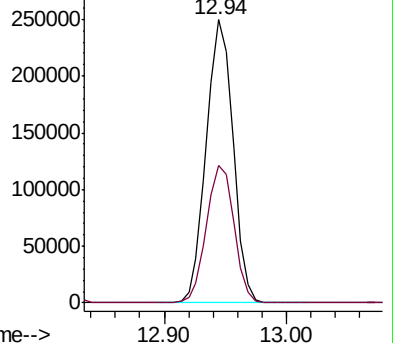
105 100

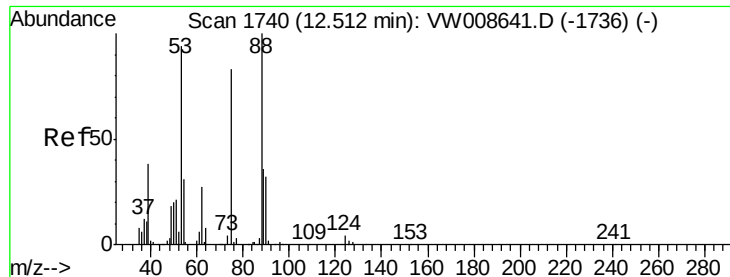
120 49.9 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 17.142 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

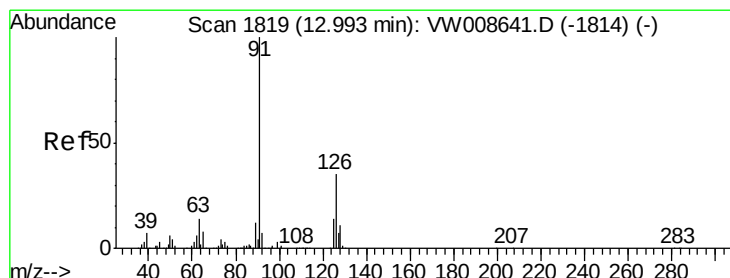
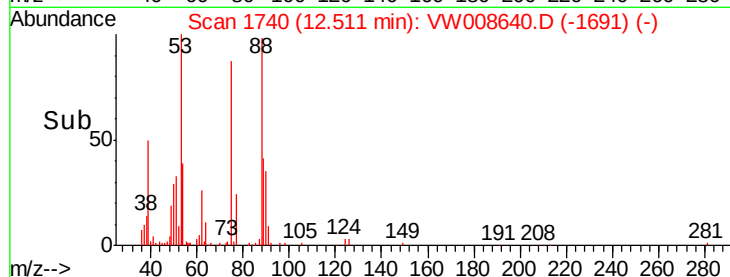
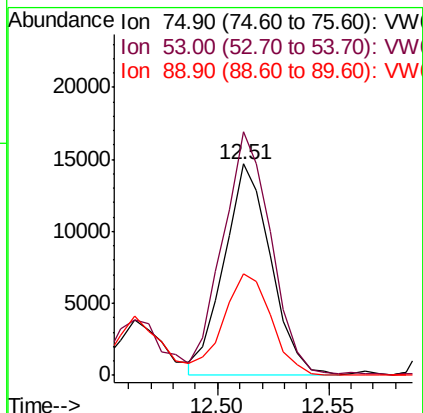
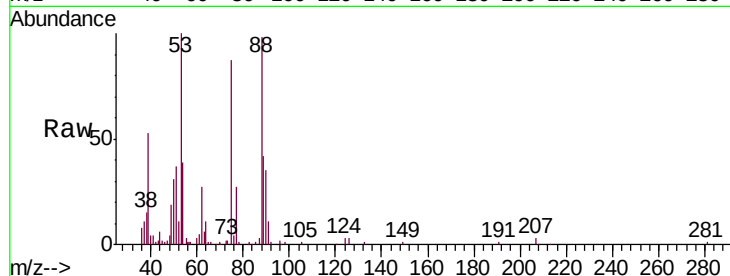
Tgt Ion: 75 Resp: 21280

Ion Ratio Lower Upper

75 100

53 120.9 87.4 131.0

89 49.8 37.0 55.4



#82

4-Chlorotoluene

Concen: 19.657 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.01 min

Lab File: VW008640.D

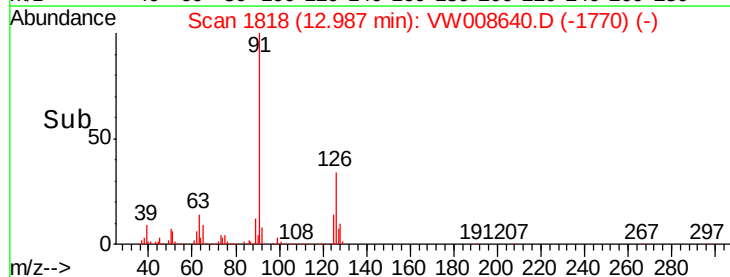
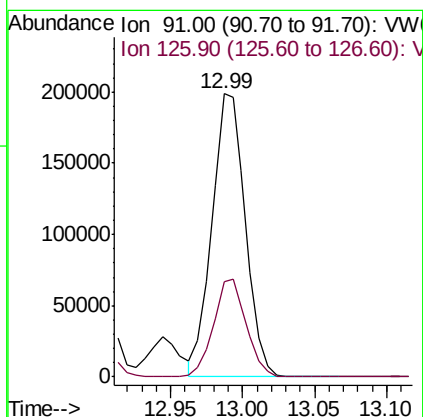
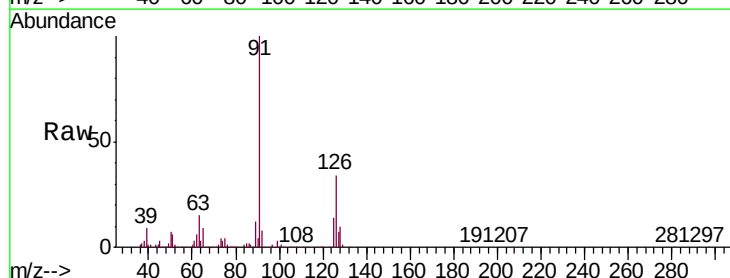
Acq: 13 Feb 2019 15:11

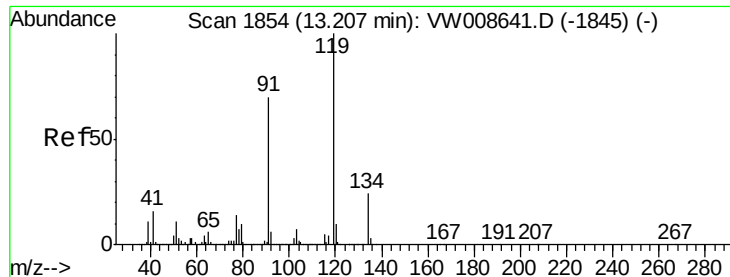
Tgt Ion: 91 Resp: 320230

Ion Ratio Lower Upper

91 100

126 34.2 16.9 50.7

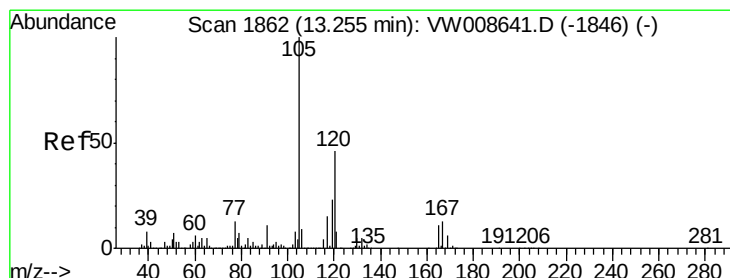
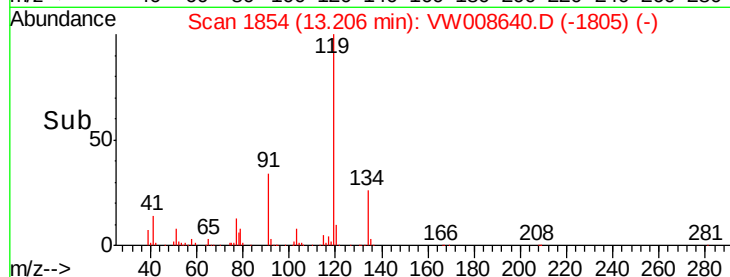
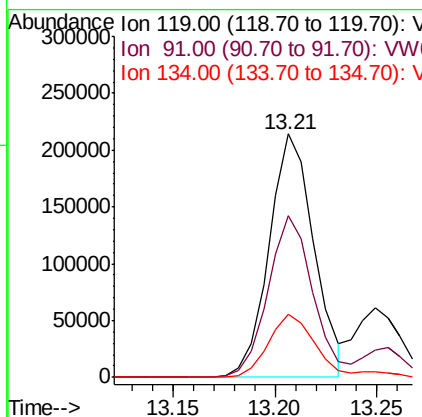
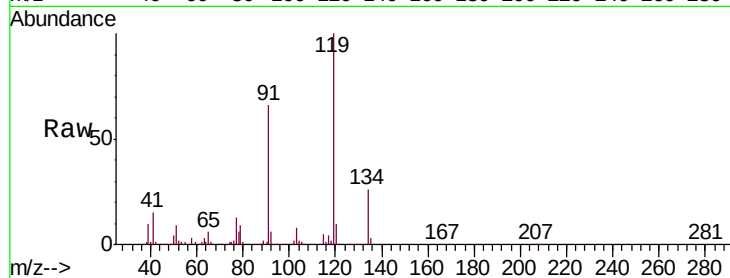




#83  
 tert-Butylbenzene  
 Concen: 19.859 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

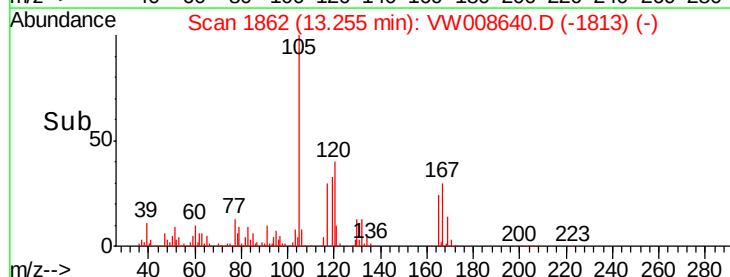
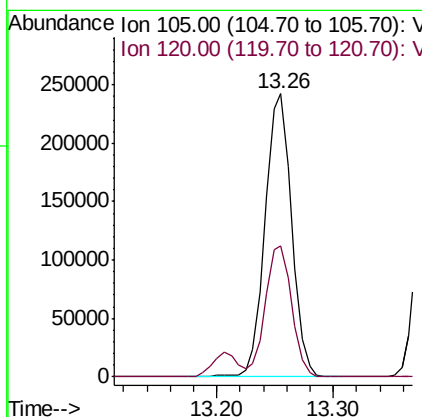
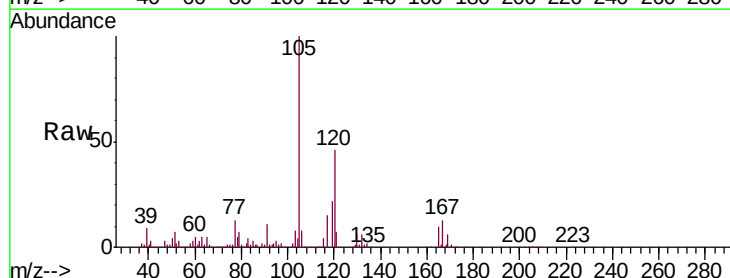
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC020

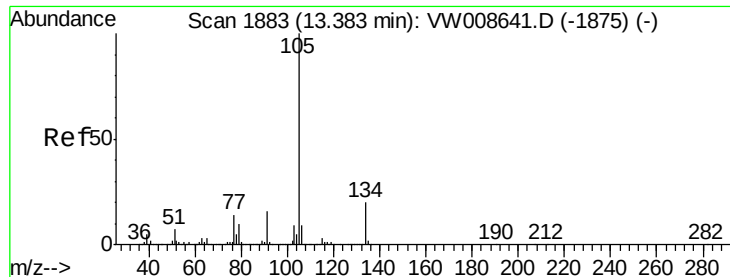
Tgt Ion:119 Resp: 327869  
 Ion Ratio Lower Upper  
 119 100  
 91 67.0 34.0 102.0  
 134 28.6 13.6 40.8



#84  
 1,2,4-Trimethylbenzene  
 Concen: 19.665 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

Tgt Ion:105 Resp: 384292  
 Ion Ratio Lower Upper  
 105 100  
 120 46.2 22.9 68.8





#85

sec-Butylbenzene

Concen: 19.970 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. 0.01 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

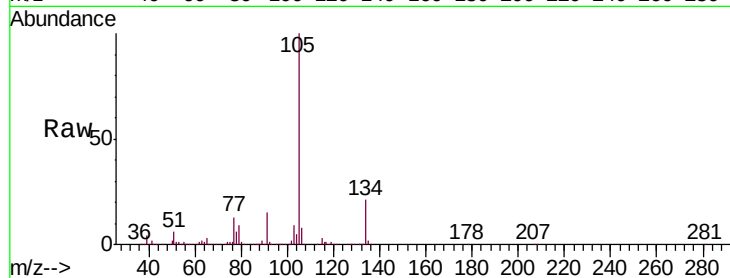
VSTDIC020

Tgt Ion:105 Resp: 480056

Ion Ratio Lower Upper

105 100

134 20.9 10.3 30.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.39

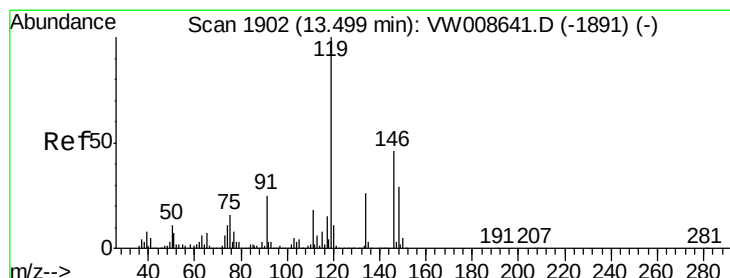
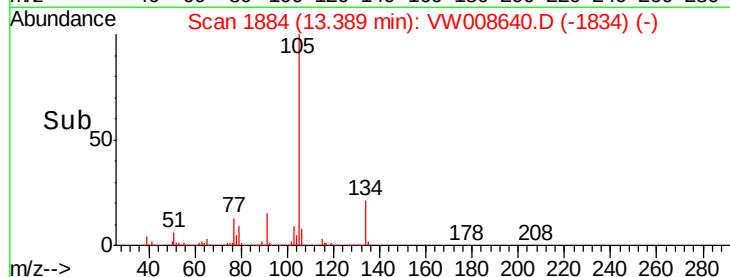
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.663 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

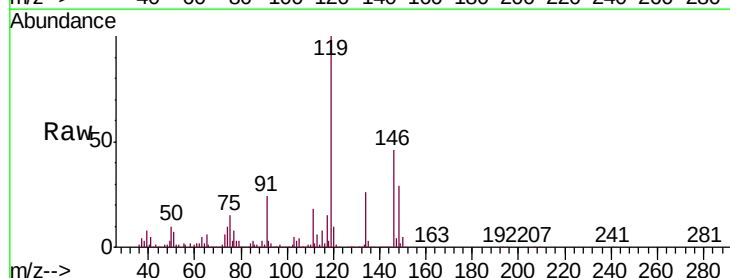
Tgt Ion:119 Resp: 422860

Ion Ratio Lower Upper

119 100

134 26.7 13.0 39.0

91 24.5 12.3 36.9



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

400000

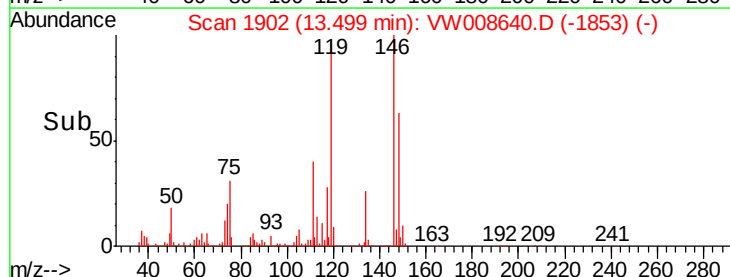
300000

200000

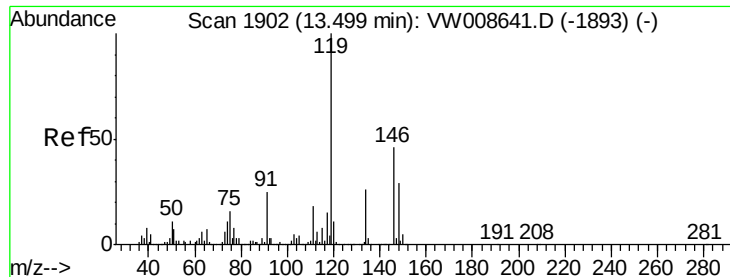
100000

0

Time-->







#87

1,3-Dichlorobenzene

Concen: 19.606 ug/l

RT: 13.50 min Scan# 1902

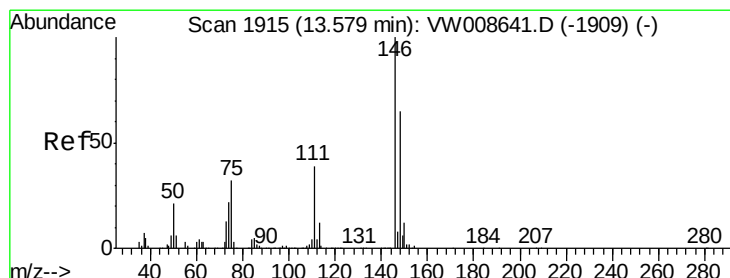
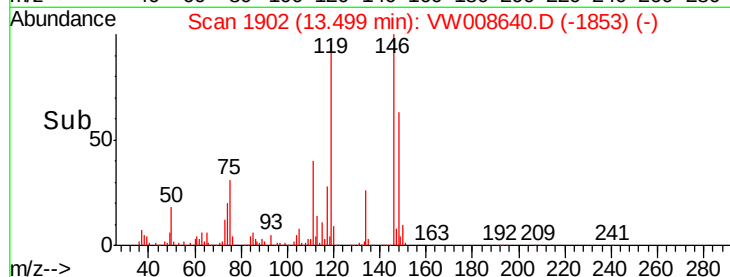
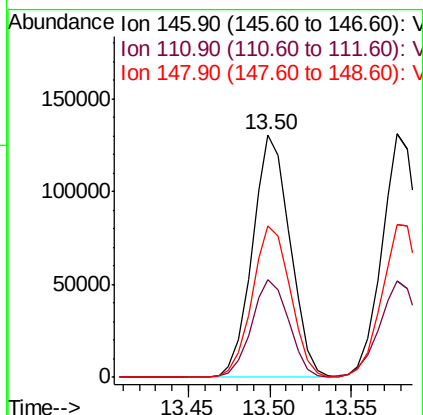
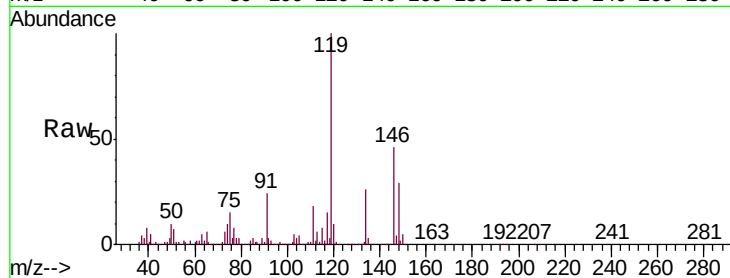
Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.1  | 19.4  | 58.1  |
| 148     | 63.6  | 31.6  | 94.8  |



#88

1,4-Dichlorobenzene

Concen: 19.837 ug/l

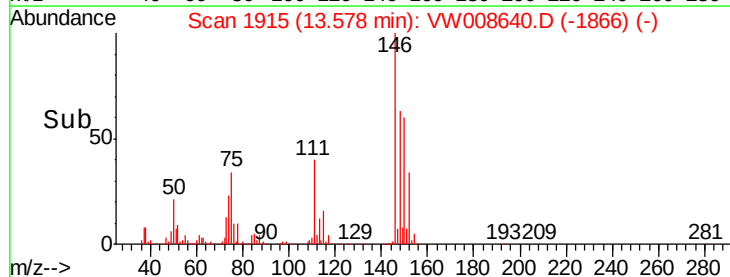
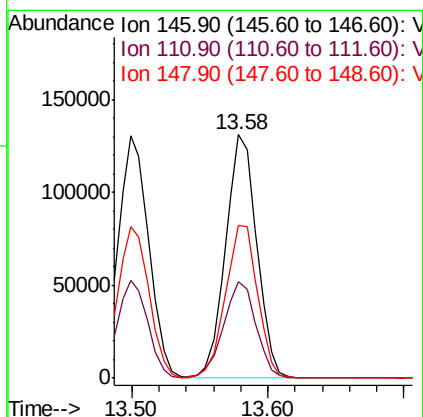
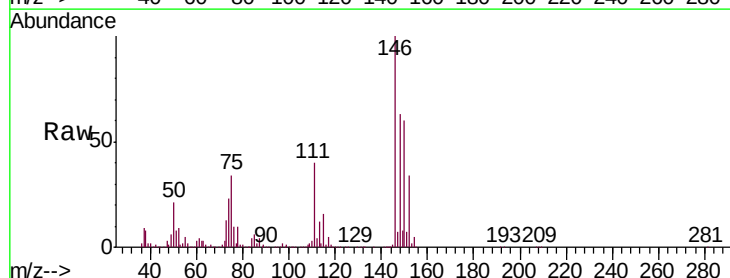
RT: 13.58 min Scan# 1915

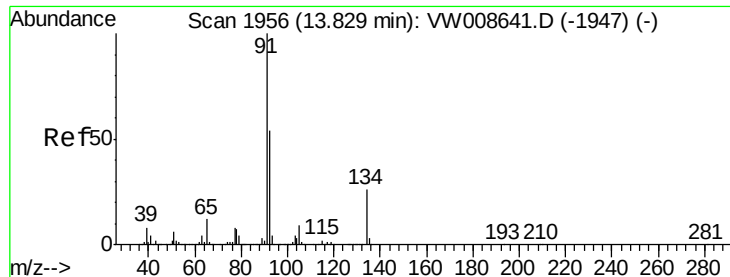
Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.4  | 19.4  | 58.1  |
| 148     | 64.7  | 31.8  | 95.4  |





#89

n-Butylbenzene

Concen: 19.843 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW008640.D

Acq: 13 Feb 2019 15:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC020

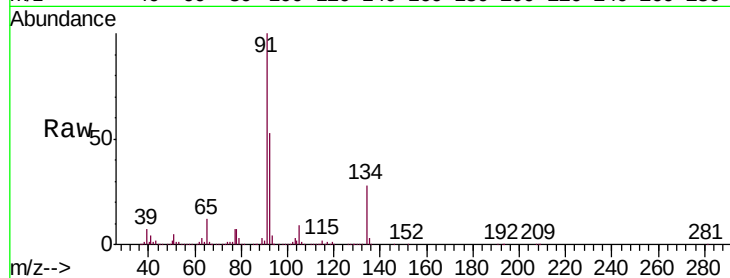
Tgt Ion: 91 Resp: 405512

Ion Ratio Lower Upper

91 100

92 54.0 26.8 80.4

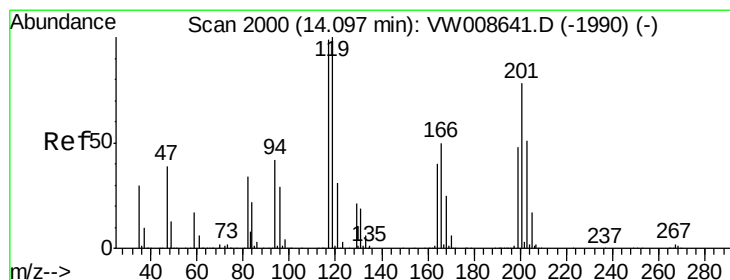
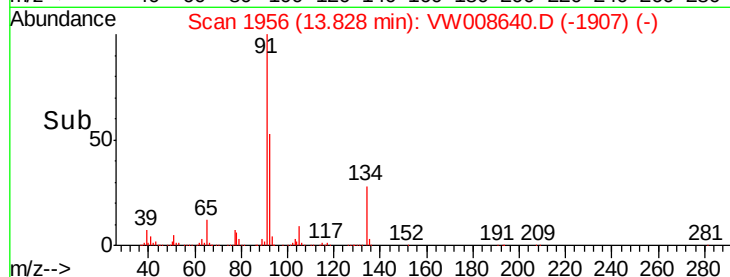
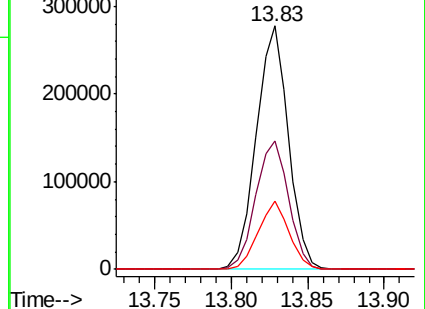
134 27.0 13.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 19.513 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW008640.D

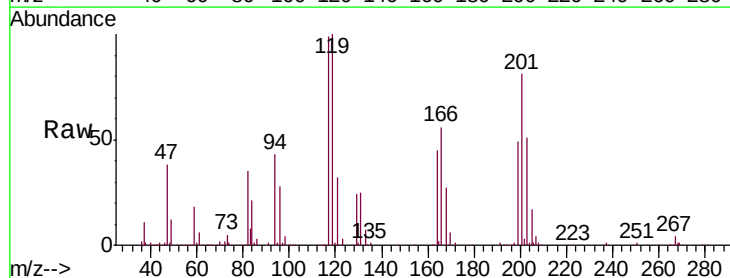
Acq: 13 Feb 2019 15:11

Tgt Ion: 117 Resp: 73316

Ion Ratio Lower Upper

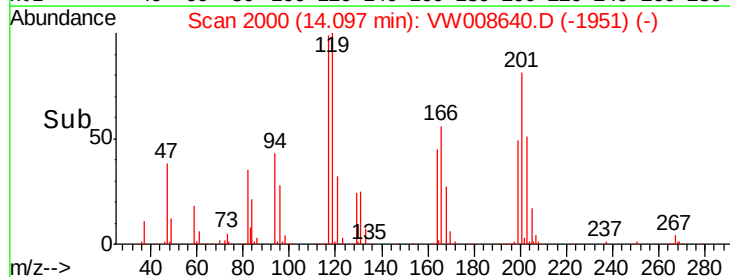
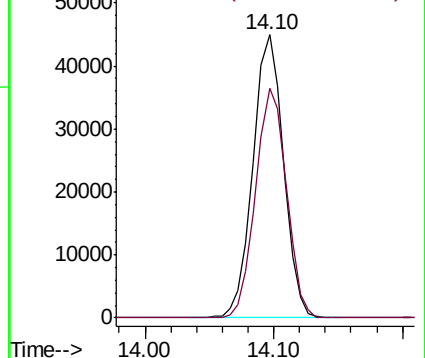
117 100

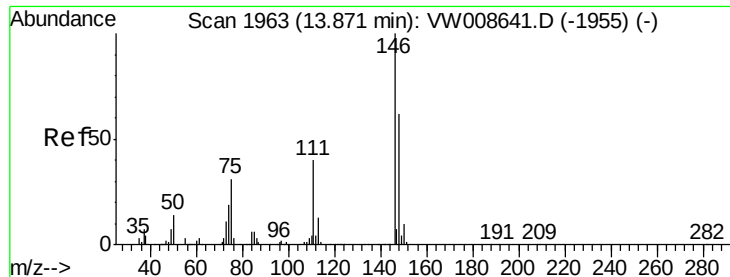
201 82.2 38.7 116.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

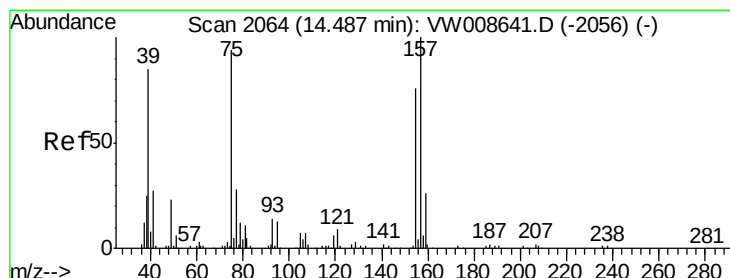
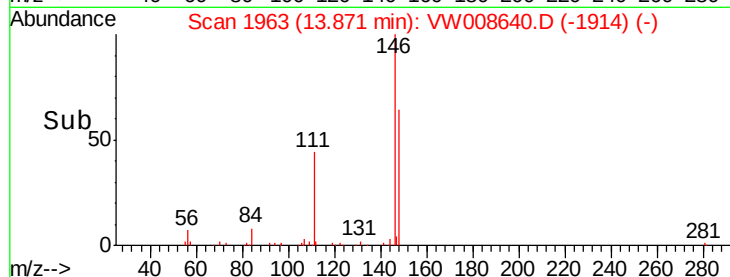
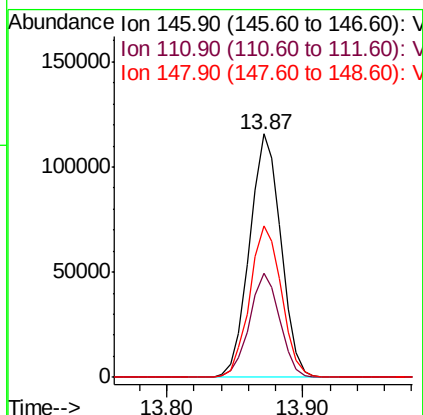
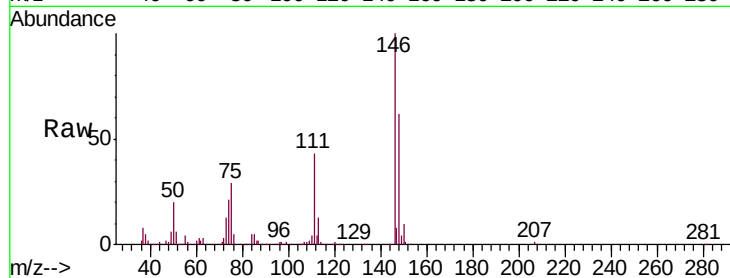




#91  
 1,2-Dichlorobenzene  
 Concen: 19.866 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

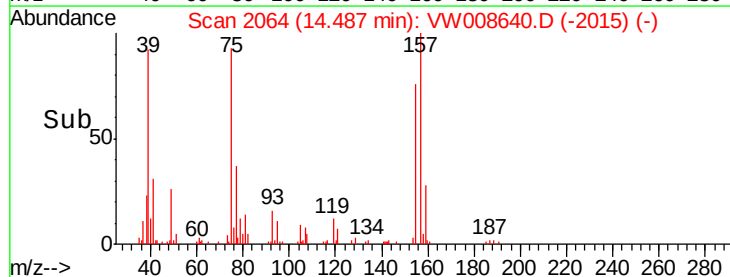
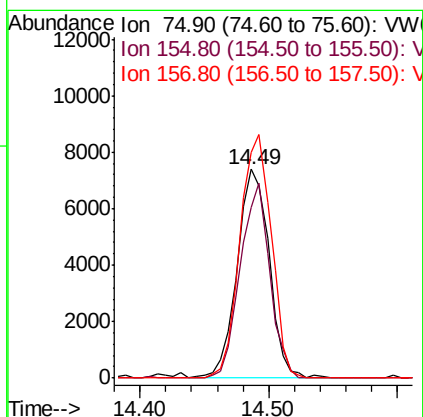
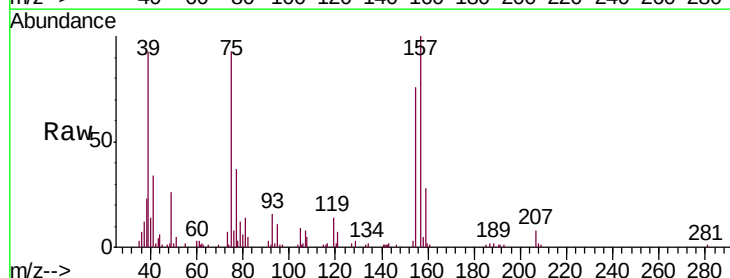
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC020

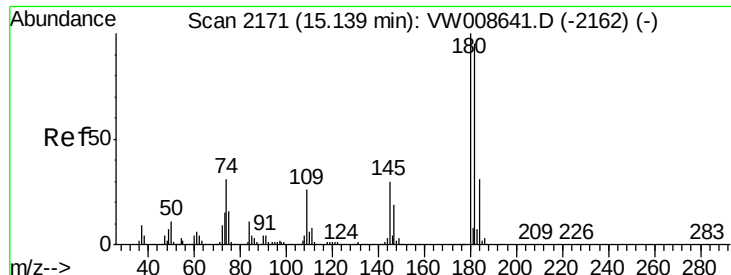
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.4  | 20.5  | 61.5  |
| 148     | 62.6  | 31.6  | 94.8  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.408 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 85.2  | 41.8  | 125.4 |
| 157     | 113.6 | 53.8  | 161.4 |

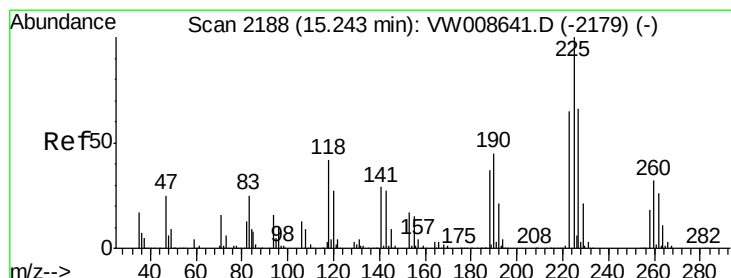
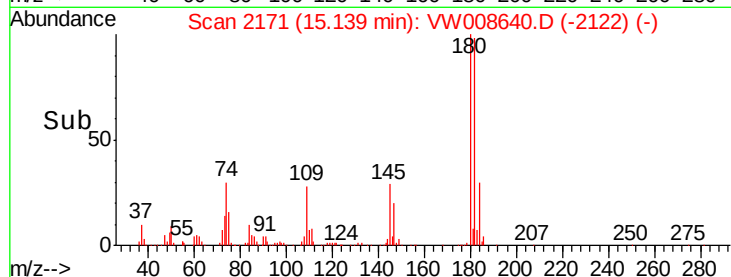
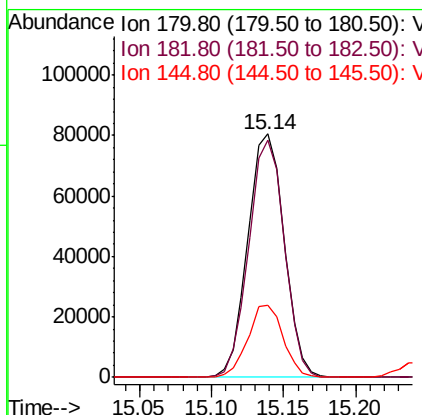
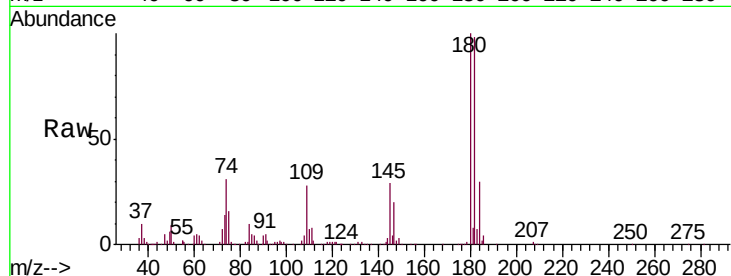




#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.901 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

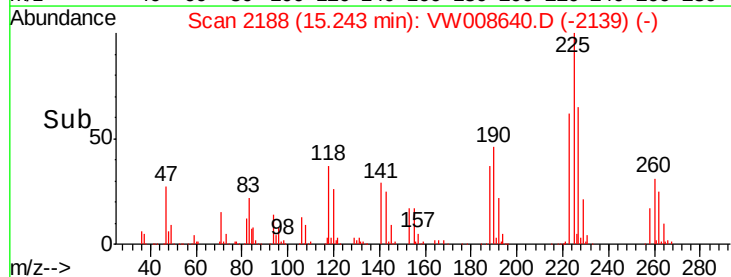
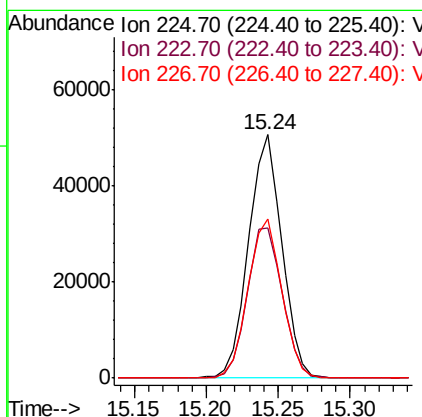
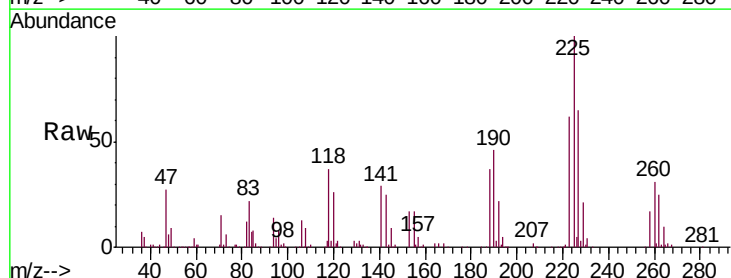
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC020

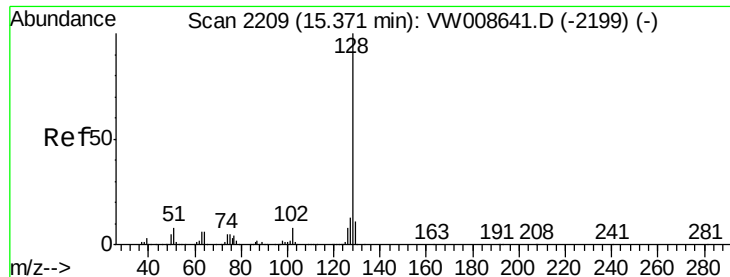
Tgt Ion:180 Resp: 140608  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 47.5 142.5  
 145 28.9 15.1 45.3



#94  
 Hexachlorobutadiene  
 Concen: 20.665 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. -0.00 min  
 Lab File: VW008640.D  
 Acq: 13 Feb 2019 15:11

Tgt Ion:225 Resp: 80924  
 Ion Ratio Lower Upper  
 225 100  
 223 65.5 31.4 94.3  
 227 66.3 32.4 97.0

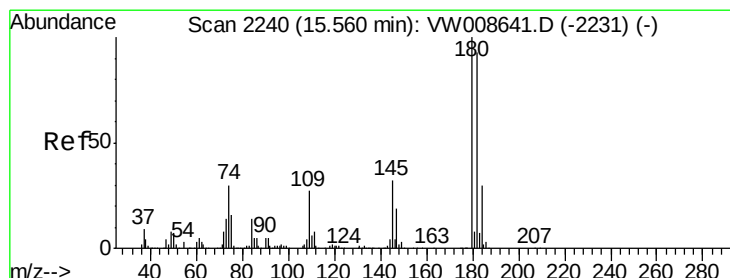
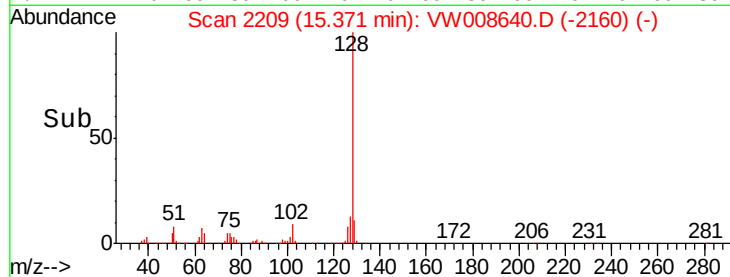
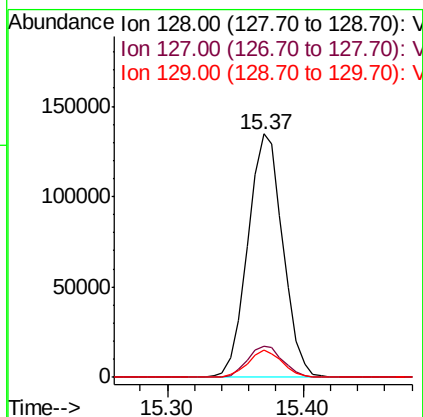
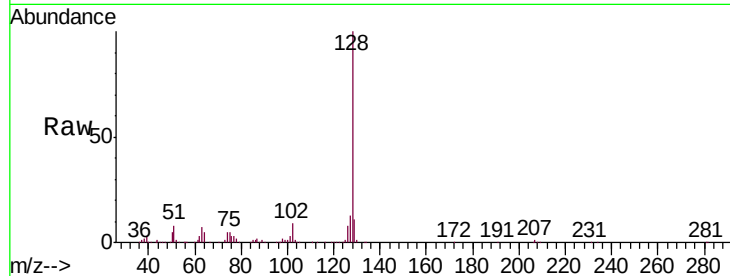




#95  
Naphthalene  
Concen: 20.138 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC020

Tgt Ion:128 Resp: 242791  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.9 16.3  
129 10.8 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 20.761 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: VW008640.D  
Acq: 13 Feb 2019 15:11

Tgt Ion:180 Resp: 119853  
Ion Ratio Lower Upper  
180 100  
182 94.8 47.5 142.5  
145 31.6 15.9 47.7

