

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW082119\  
 Data File : VW012074.D  
 Acq On : 21 Aug 2019 16:16  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 22 05:16:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 246862   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 387422   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 334543   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 159565   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 146687   | 51.75 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.50% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 122297   | 56.27 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.54% |      |
| 50) Toluene-d8              | 10.32  | 98  | 495299   | 55.66 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.32% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 175438   | 55.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 110.60% |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 72554   | 52.736  | ug/l | 96     |
| 3) Chloromethane              | 2.21 | 50  | 114209  | 47.873  | ug/l | 97     |
| 4) Vinyl Chloride             | 2.36 | 62  | 147063  | 51.203  | ug/l | 99     |
| 5) Bromomethane               | 2.77 | 94  | 78156   | 49.161  | ug/l | 95     |
| 6) Chloroethane               | 2.92 | 64  | 87144   | 53.116  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 78680   | 61.296  | ug/l | 100    |
| 8) Diethyl Ether              | 3.68 | 74  | 74808   | 51.401  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 137022  | 56.272  | ug/l | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 182593  | 53.063  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.17 | 59  | 48121   | 228.492 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 138128  | 53.726  | ug/l | 99     |
| 13) Acrolein                  | 3.89 | 56  | 40249   | 197.885 | ug/l | 99     |
| 14) Allyl chloride            | 4.67 | 41  | 293879  | 53.743  | ug/l | 100    |
| 15) Acrylonitrile             | 5.36 | 53  | 188694  | 259.728 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 197397  | 218.917 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.39 | 76  | 388985  | 48.341  | ug/l | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 100712  | 49.718  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 221406  | 54.269  | ug/l | 96     |
| 20) Methylene Chloride        | 4.92 | 84  | 147681  | 47.489  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 146394  | 52.816  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 546422  | 53.002  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.25 | 43  | 1717728 | 265.161 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 294116  | 53.268  | ug/l | 98     |
| 25) 2-Butanone                | 7.17 | 43  | 277346  | 235.059 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 166457  | 49.021  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 158308  | 51.894  | ug/l | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 125933  | 51.385  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.53 | 42  | 172542  | 255.830 | ug/l | 99     |
| 30) Chloroform                | 7.67 | 83  | 267285  | 52.471  | ug/l | 97     |
| 31) Cyclohexane               | 7.95 | 56  | 271893  | 51.299  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 213520  | 55.040  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 225978  | 56.095  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 119725  | 51.657  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 195965  | 56.824  | ug/l | 98     |

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 ALS Vial : 18 Sample Multiplier: 1

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 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 22 05:16:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 255949   | 57.700   | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 610848   | 54.134   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 75521    | 54.510   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 187712   | 53.133   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 229674   | 53.883   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 149876   | 55.262   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 164315   | 54.423   | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 73783    | 53.542   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.64  | 83   | 196878   | 54.465   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 110690   | 54.061   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 21217    | 1063.349 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 591070   | 266.597  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 375843   | 55.154   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 204714   | 54.214   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 246364   | 54.874   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 103090   | 52.725   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 159518   | 55.754   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 197807   | 53.475   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 397789   | 306.213  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 414589   | 264.844  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 119750   | 55.176   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 98899    | 53.450   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 121522   | 55.789   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 372592   | 55.397   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 130691   | 55.785   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 730663   | 57.040   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 531251   | 114.039  | ug/l   | 98       |
| 69) o-Xylene                   | 12.16 | 106  | 246621   | 56.970   | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 427035   | 57.053   | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 66055    | 55.299   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.46 | 105  | 688418   | 57.831   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 213201   | 57.207   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 124565   | 55.631   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 165808   | 98.205   | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 146342   | 55.619   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 845021   | 58.329   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 471798   | 56.529   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 577941   | 57.919   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 42205    | 57.610   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 494479   | 56.468   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 496539   | 59.505   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 572571   | 56.962   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 706417   | 59.331   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 630521   | 58.366   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 286684   | 55.569   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 286029   | 55.734   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.82 | 91   | 637274   | 59.113   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.09 | 117  | 110485   | 57.838   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 253896   | 55.643   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 20324    | 53.228   | ug/l   | 96       |

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Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Quant Time: Aug 22 05:16:15 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration

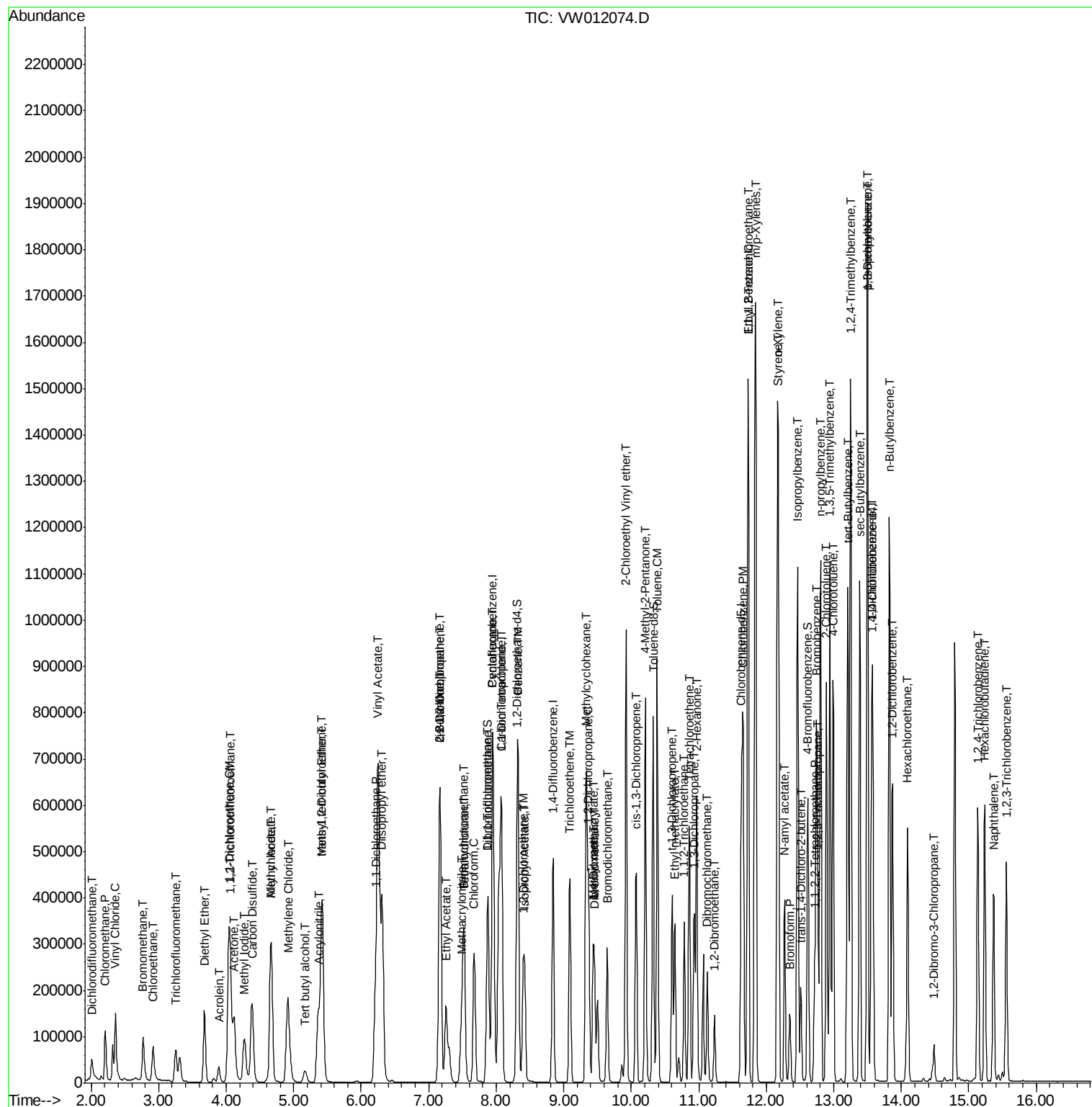
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 182644   | 56.795 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 118830   | 59.253 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 336308   | 53.248 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 161098   | 57.150 | ug/l  | 99       |

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

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 Sample : VSTDCCC050  
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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: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

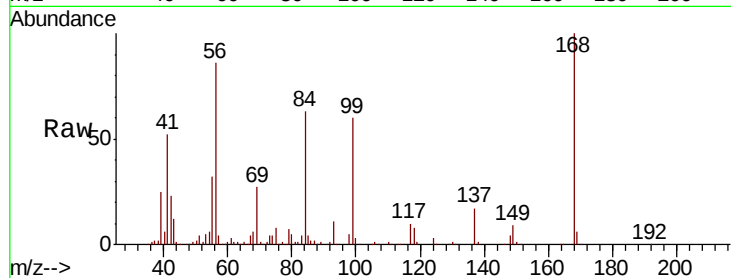
VSTDCCC050

Tgt Ion:168 Resp: 246862

Ion Ratio Lower Upper

168 100

99 59.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VW011512.D (-980) (-)

Ion 98.90 (98.60 to 99.60): VW011512.D (-980) (-)

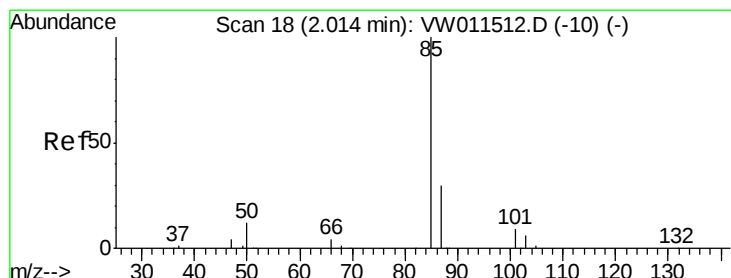
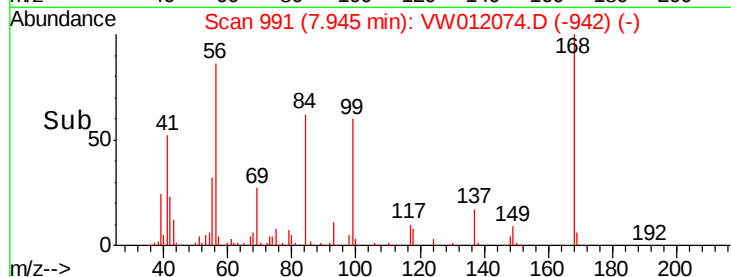
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 52.736 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW012074.D

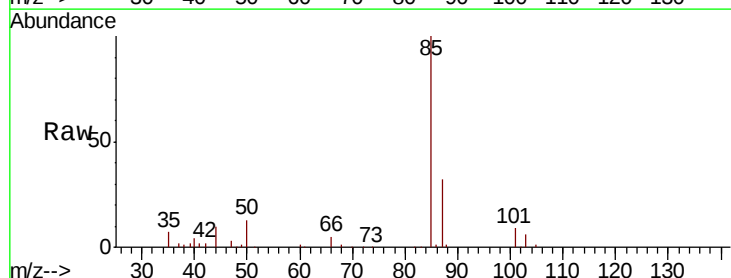
Acq: 21 Aug 2019 16:16

Tgt Ion: 85 Resp: 72554

Ion Ratio Lower Upper

85 100

87 32.3 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VW011512.D (-10) (-)

Ion 86.90 (86.60 to 87.60): VW011512.D (-10) (-)

2.01

30000

25000

20000

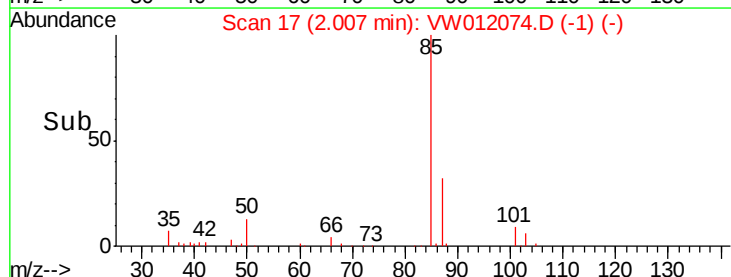
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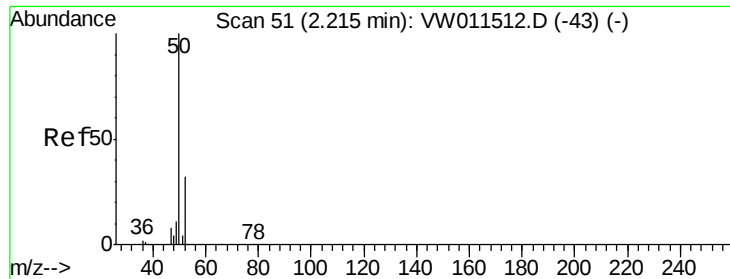
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5000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 47.873 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

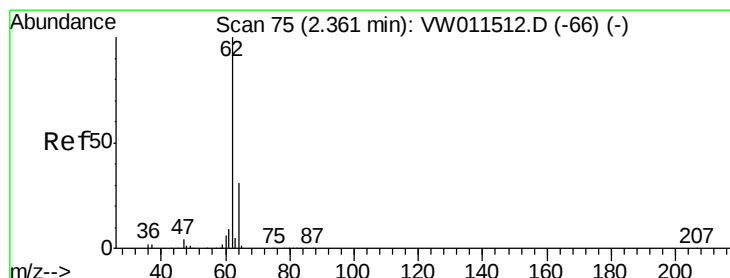
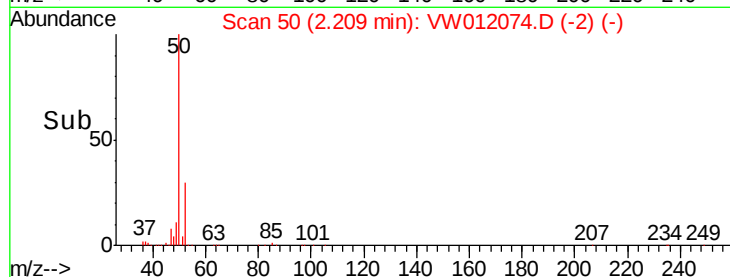
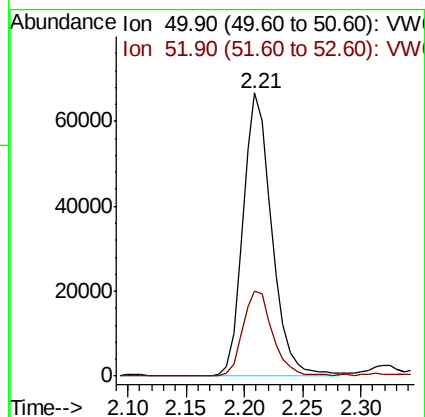
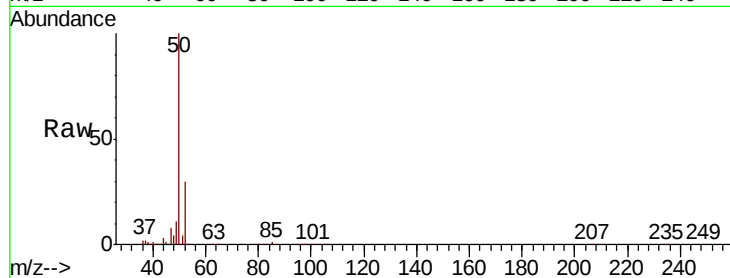
VSTDCCC050

Tgt Ion: 50 Resp: 114209

Ion Ratio Lower Upper

50 100

52 30.0 25.4 38.2



#4

Vinyl Chloride

Concen: 51.203 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012074.D

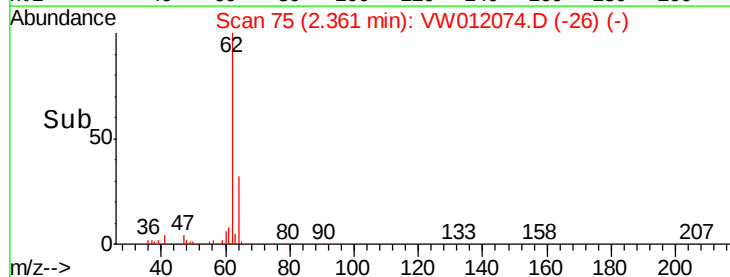
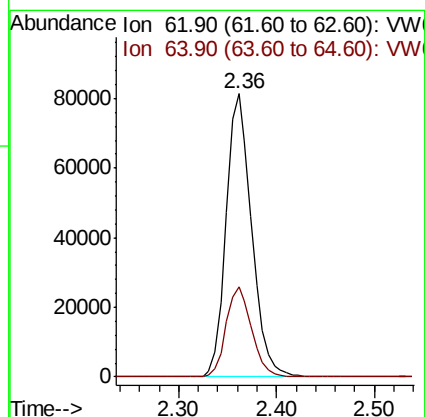
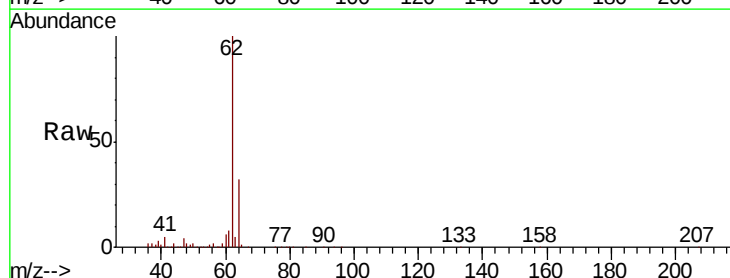
Acq: 21 Aug 2019 16:16

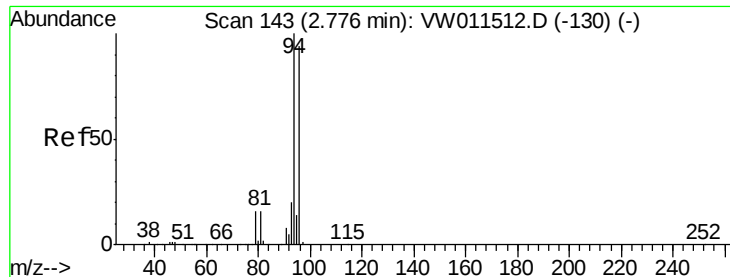
Tgt Ion: 62 Resp: 147063

Ion Ratio Lower Upper

62 100

64 31.8 25.0 37.4





#5

Bromomethane

Concen: 49.161 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

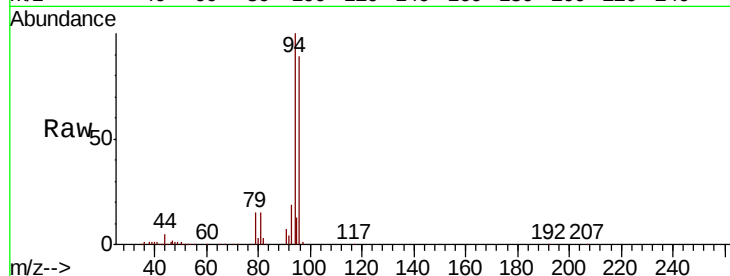
VSTDCCC050

Tgt Ion: 94 Resp: 78156

Ion Ratio Lower Upper

94 100

96 89.3 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.77

40000

30000

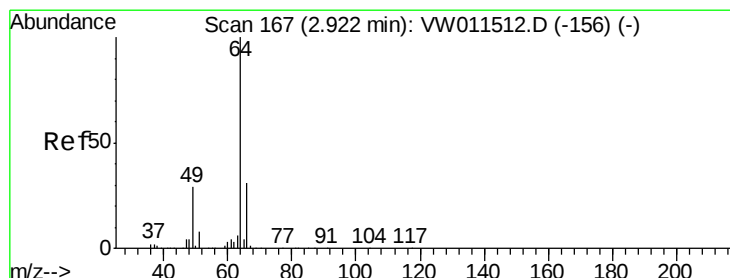
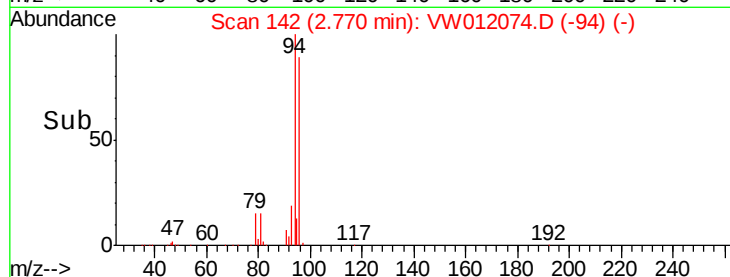
20000

10000

0

Time-->

2.70 2.80 2.90



#6

Chloroethane

Concen: 53.116 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW012074.D

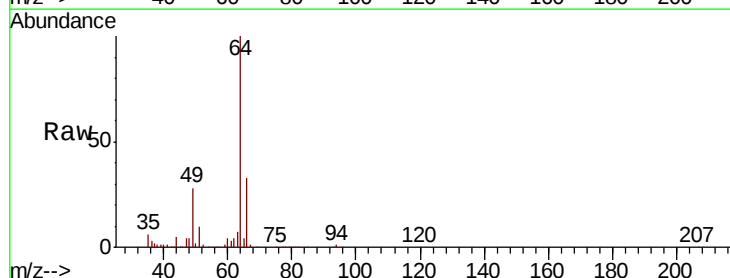
Acq: 21 Aug 2019 16:16

Tgt Ion: 64 Resp: 87144

Ion Ratio Lower Upper

64 100

66 32.8 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW

2.92

40000

30000

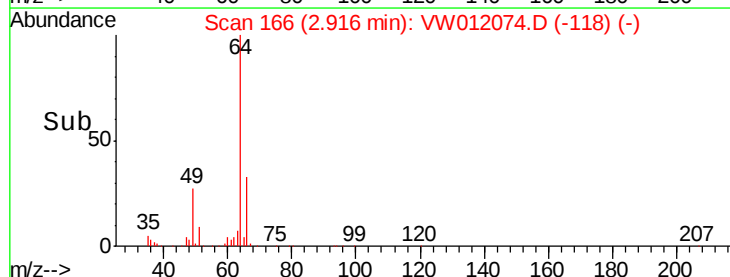
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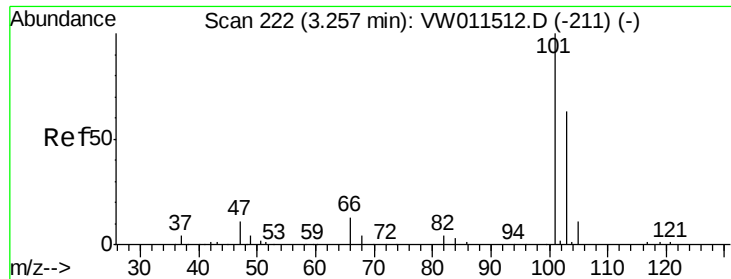
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0

Time-->

2.80 2.90 3.00



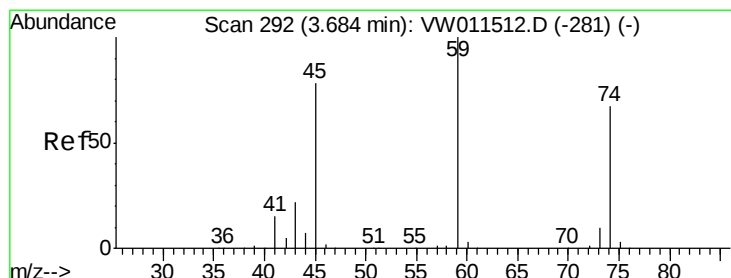
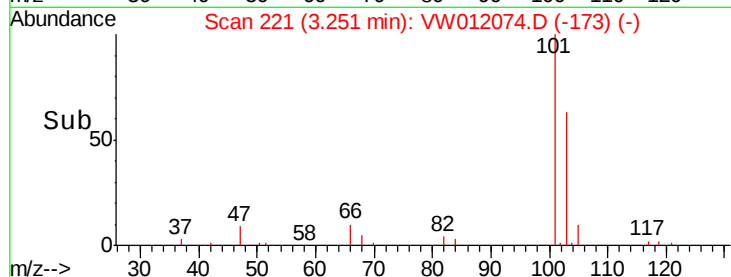
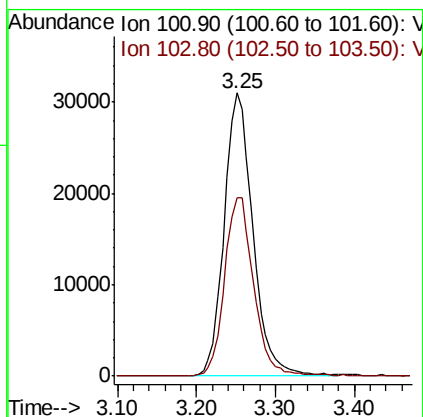
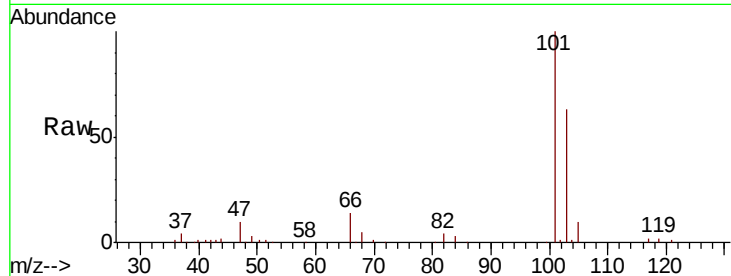


#7

Trichlorofluoromethane  
 Concen: 61.296 ug/l  
 RT: 3.25 min Scan# 221  
 Delta R.T. -0.01 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

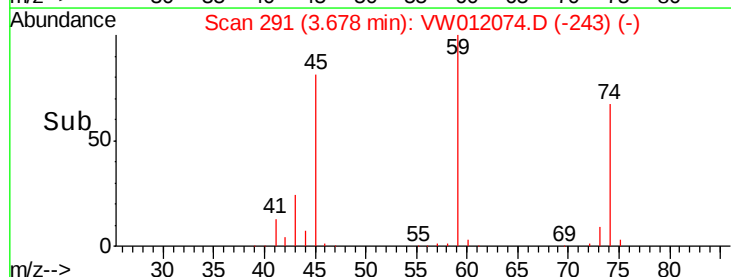
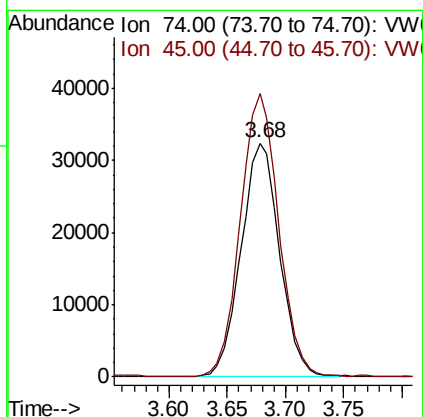
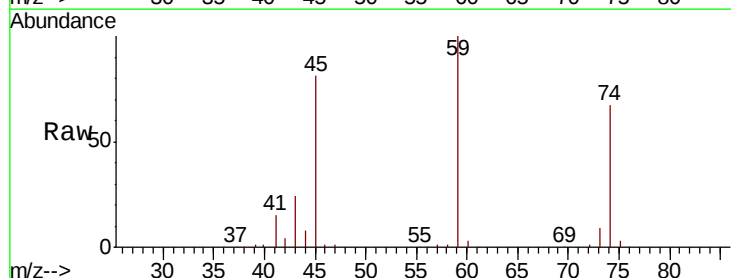
Tgt Ion: 101 Resp: 78680  
 Ion Ratio Lower Upper  
 101 100  
 103 63.1 50.2 75.4

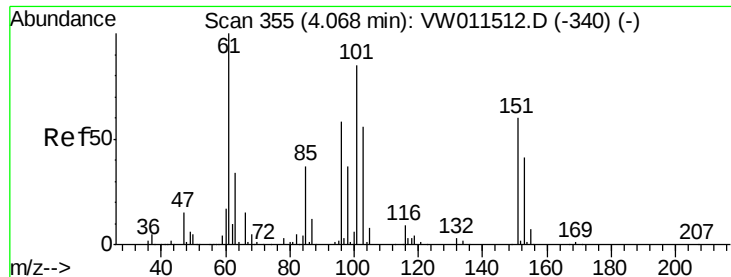


#8

Diethyl Ether  
 Concen: 51.401 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.01 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 74 Resp: 74808  
 Ion Ratio Lower Upper  
 74 100  
 45 120.1 59.6 178.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 56.272 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

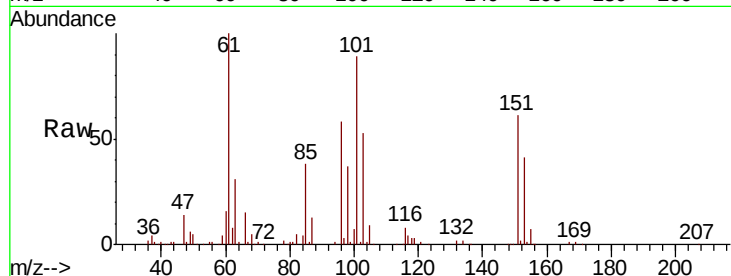
Tgt Ion:101 Resp: 137022

Ion Ratio Lower Upper

101 100

85 44.6 36.6 54.8

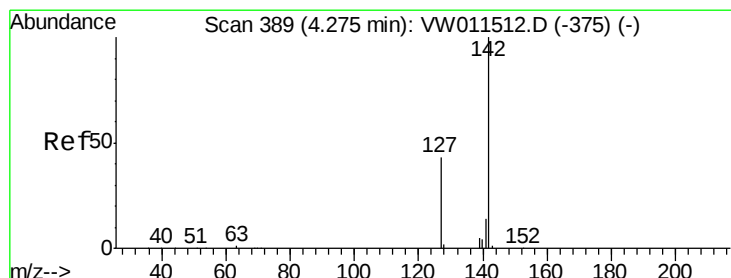
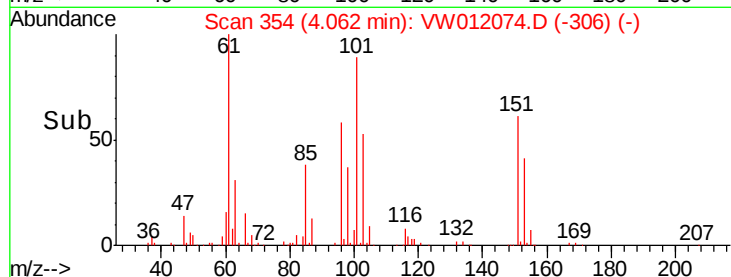
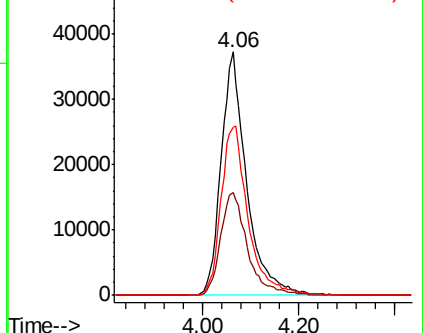
151 74.2 60.2 90.2



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: 53.063 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.01 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

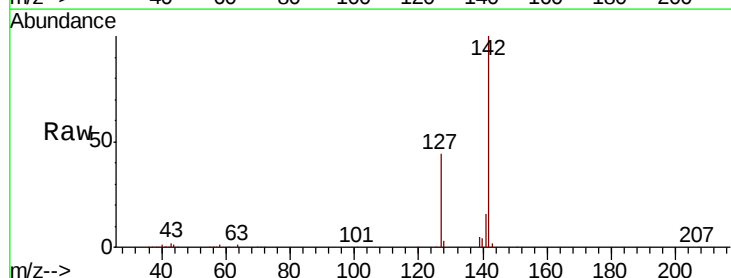
Tgt Ion:142 Resp: 182593

Ion Ratio Lower Upper

142 100

127 43.8 35.0 52.6

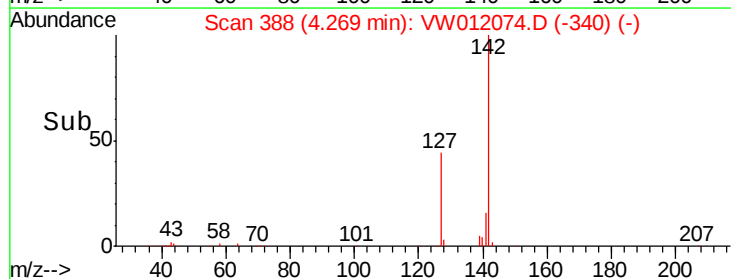
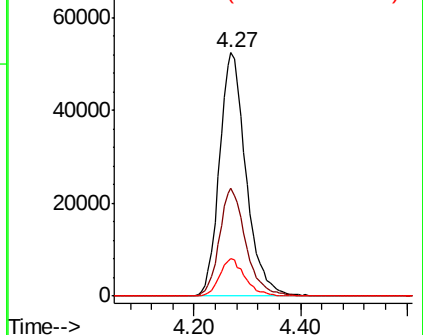
141 14.9 11.9 17.9

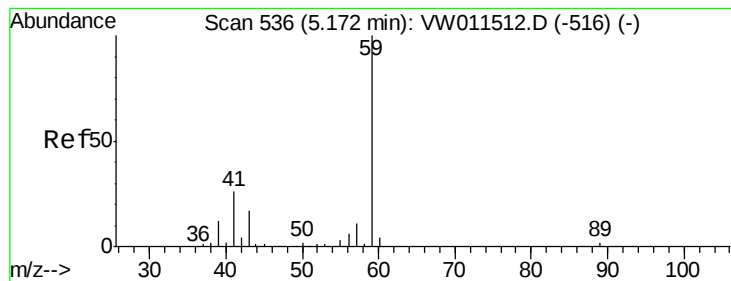


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



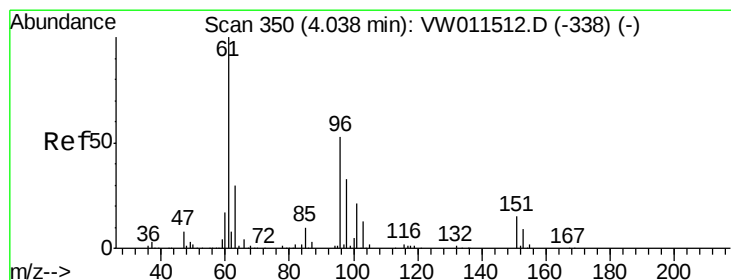
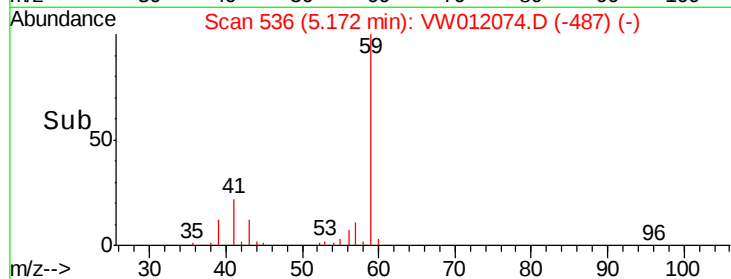
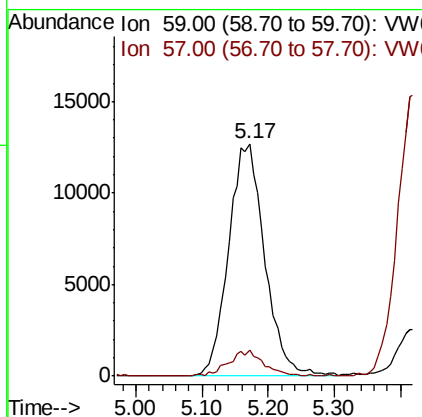
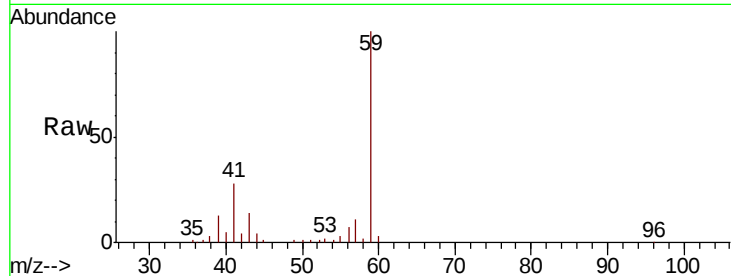


#11

Tert butyl alcohol  
 Concen: 228.492 ug/l  
 RT: 5.17 min Scan# 536  
 Delta R.T. 0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

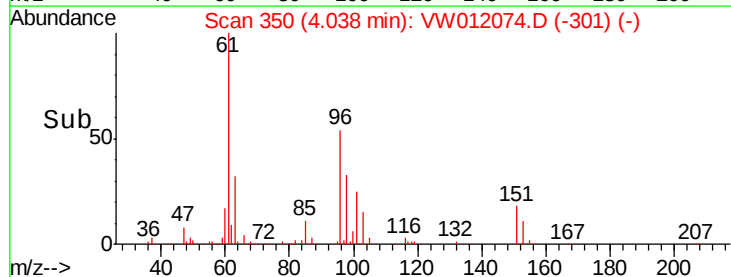
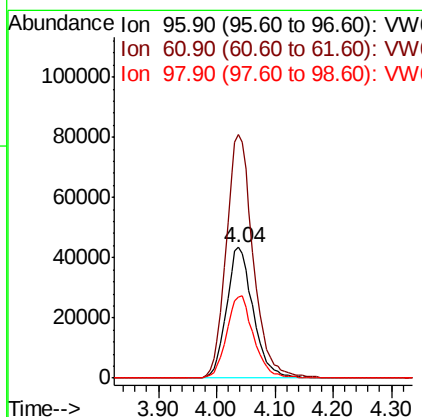
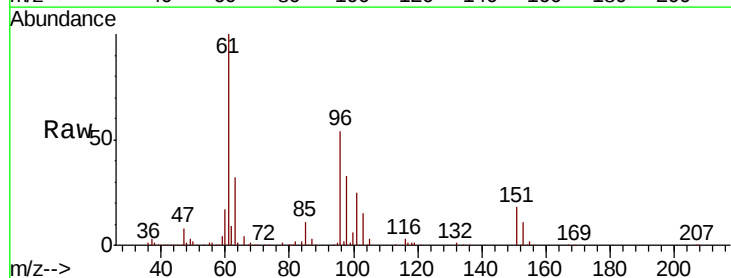
Tgt Ion: 59 Resp: 48121  
 Ion Ratio Lower Upper  
 59 100  
 57 10.8 8.5 12.7

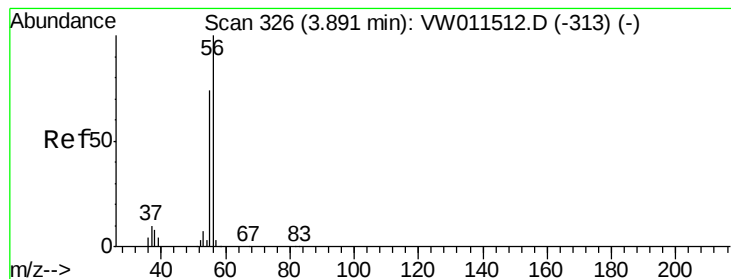


#12

1,1-Dichloroethene  
 Concen: 53.726 ug/l  
 RT: 4.04 min Scan# 350  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 96 Resp: 138128  
 Ion Ratio Lower Upper  
 96 100  
 61 186.4 149.9 224.9  
 98 62.1 49.1 73.7





#13

Acrolein

Concen: 197.885 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

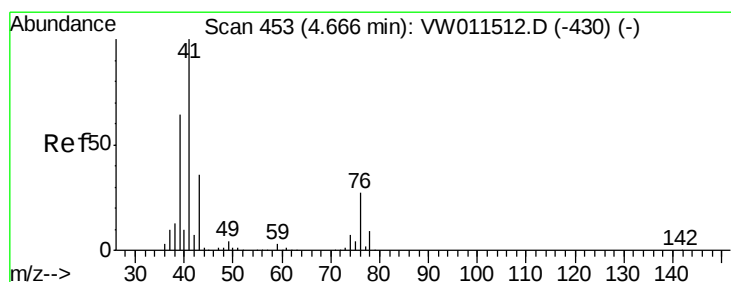
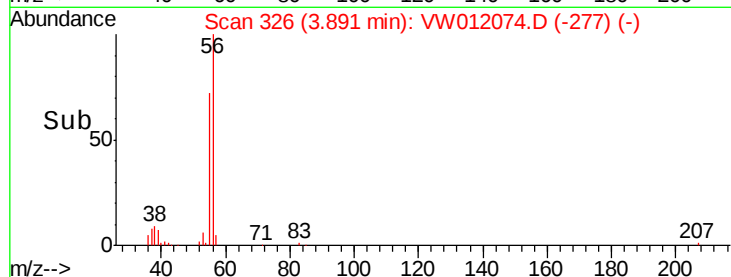
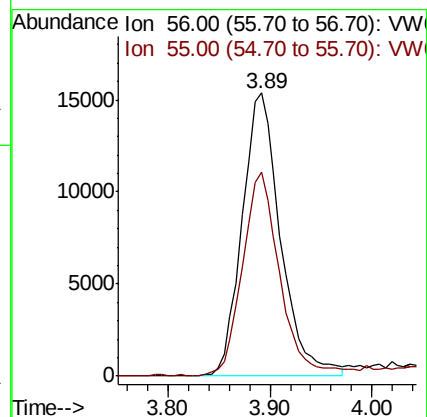
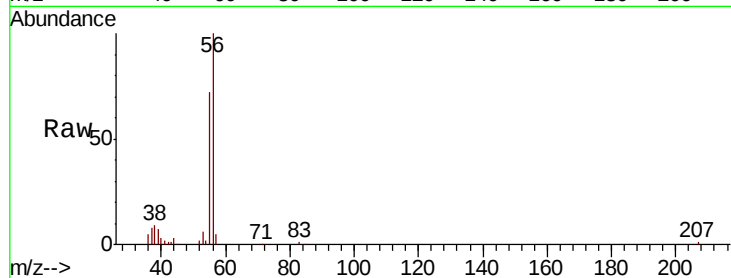
VSTDCCC050

Tgt Ion: 56 Resp: 40249

Ion Ratio Lower Upper

56 100

55 70.7 56.0 84.0



#14

Allyl chloride

Concen: 53.743 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

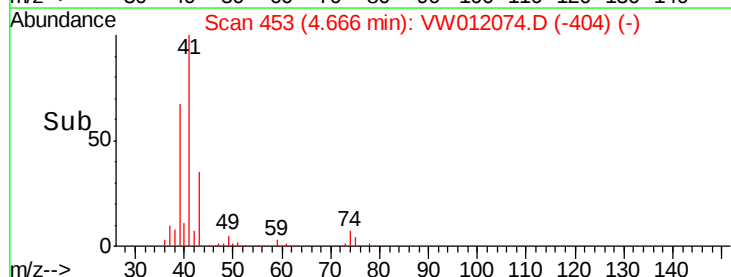
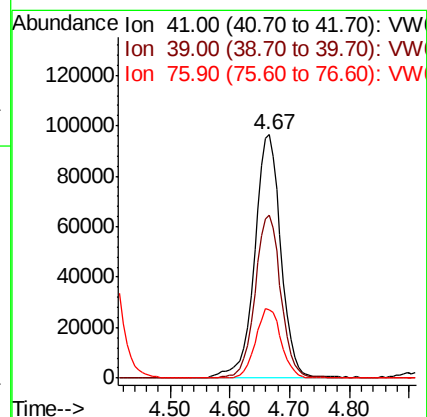
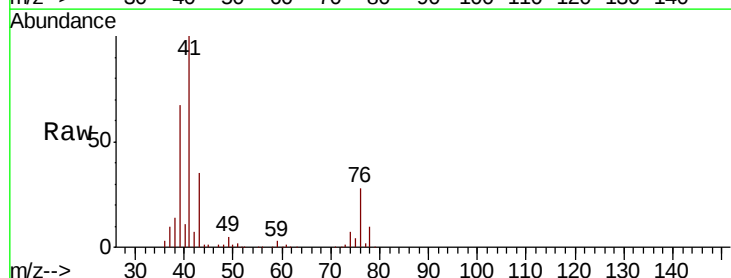
Tgt Ion: 41 Resp: 293879

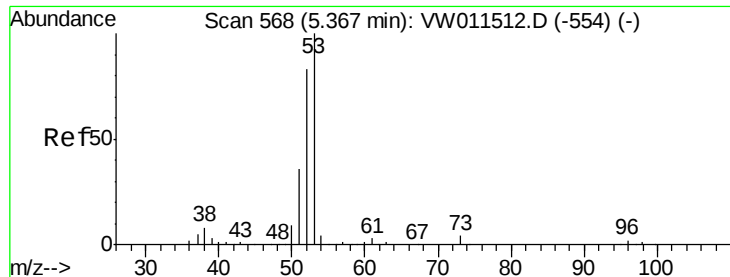
Ion Ratio Lower Upper

41 100

39 65.9 52.6 78.8

76 27.7 22.0 33.0





#15

Acrylonitrile

Concen: 259.728 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

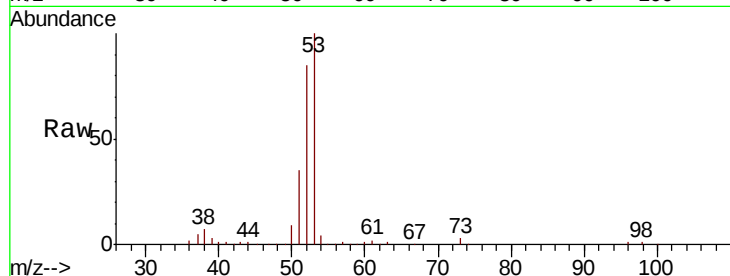
Tgt Ion: 53 Resp: 188694

Ion Ratio Lower Upper

53 100

52 82.9 67.2 100.8

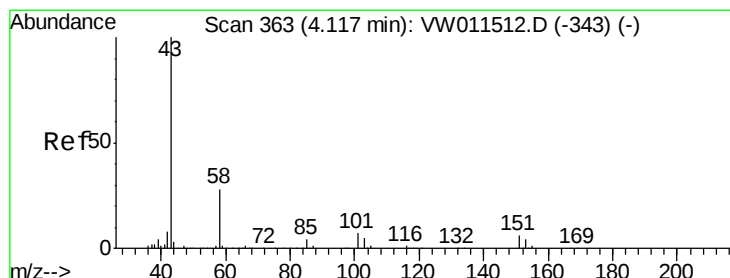
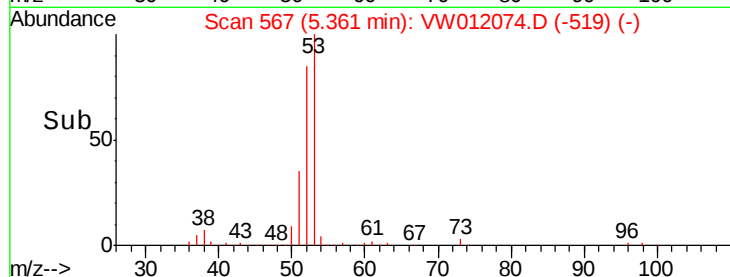
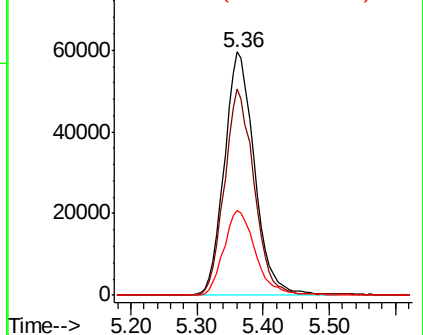
51 36.7 30.0 45.0



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 218.917 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW012074.D

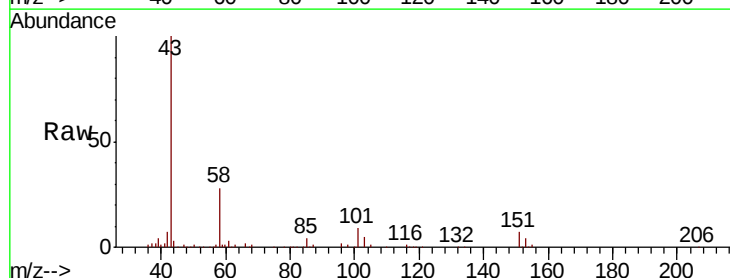
Acq: 21 Aug 2019 16:16

Tgt Ion: 43 Resp: 197397

Ion Ratio Lower Upper

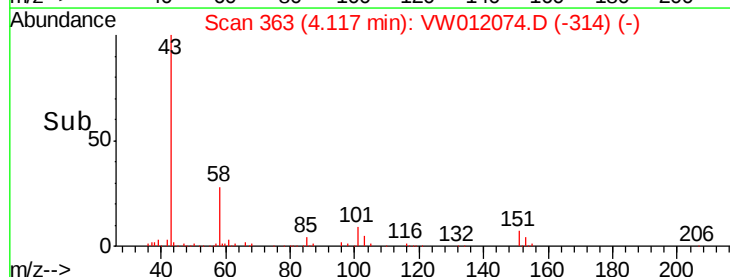
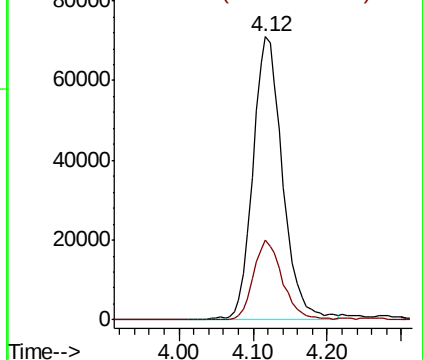
43 100

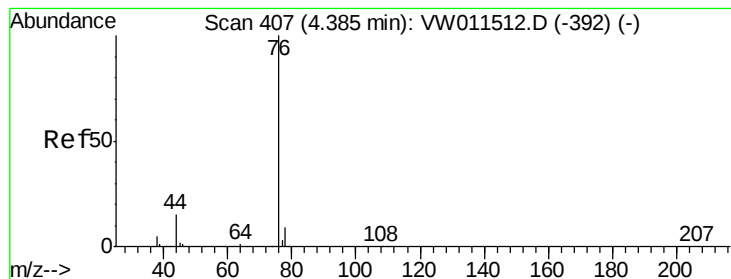
58 28.1 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 48.341 ug/l

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

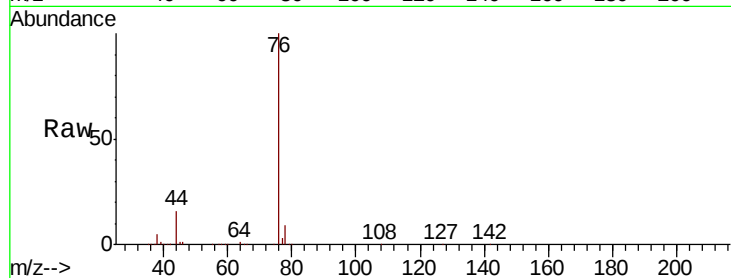
VSTDCCC050

Tgt Ion: 76 Resp: 388985

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

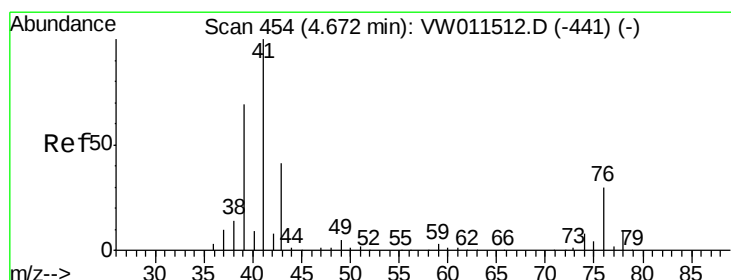
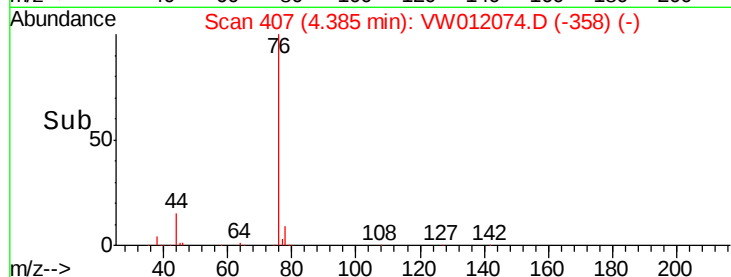
4.39

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 49.718 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW012074.D

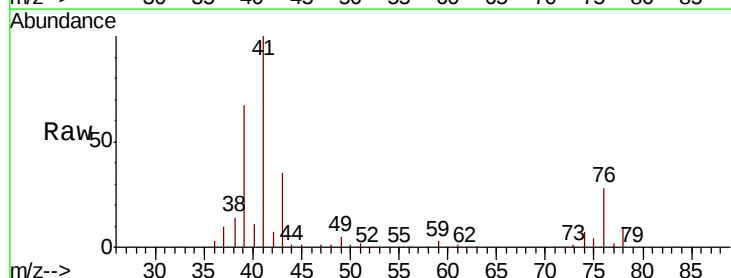
Acq: 21 Aug 2019 16:16

Tgt Ion: 43 Resp: 100712

Ion Ratio Lower Upper

43 100

74 19.3 15.9 23.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.67

40000

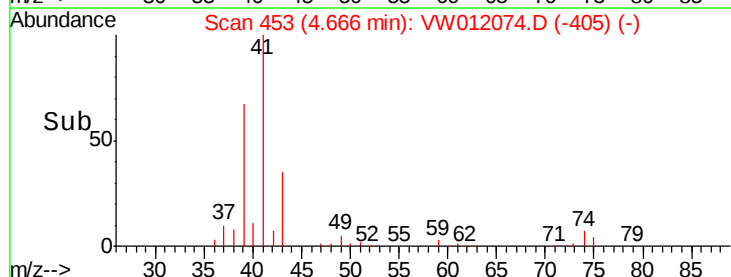
30000

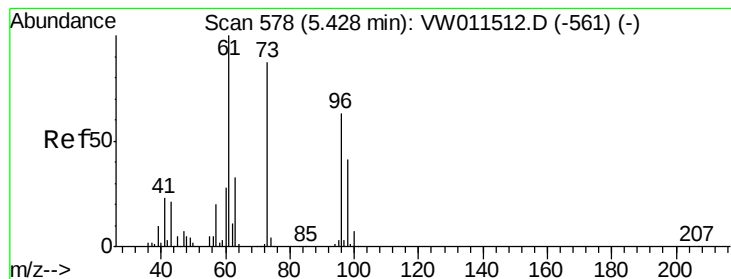
20000

10000

0

Time-->



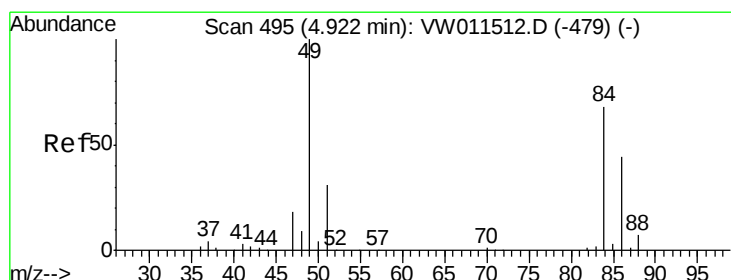
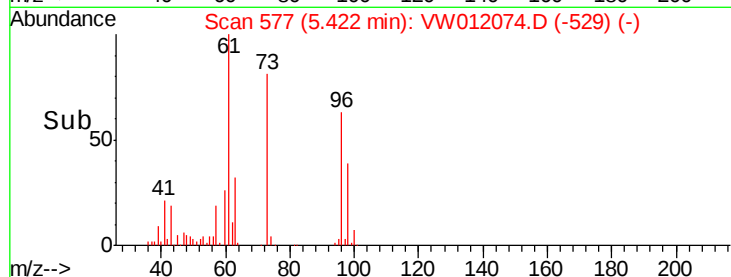
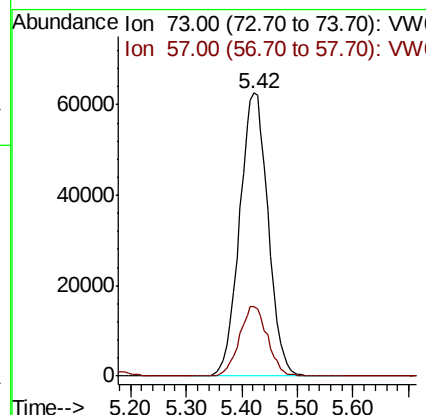
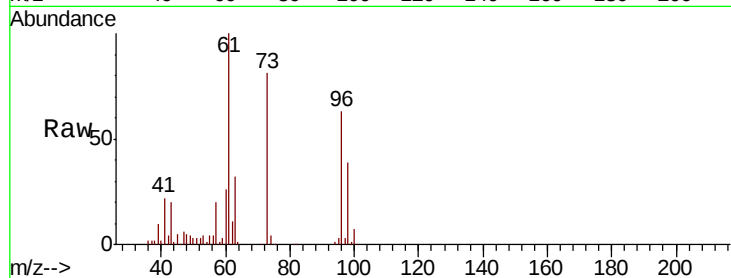


#19

Methyl tert-butyl Ether  
 Concen: 54.269 ug/l  
 RT: 5.42 min Scan# 577  
 Delta R.T. -0.01 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

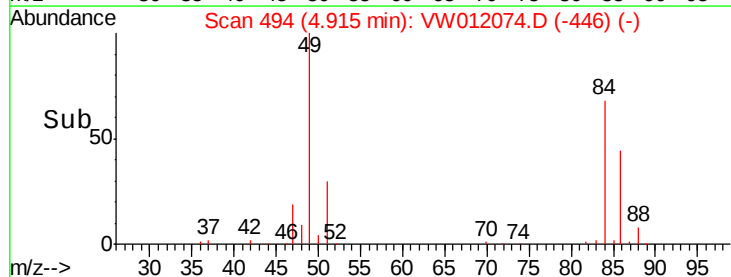
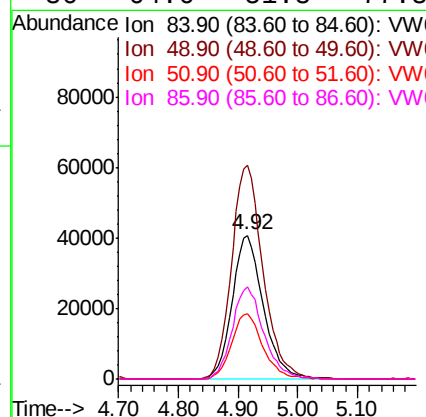
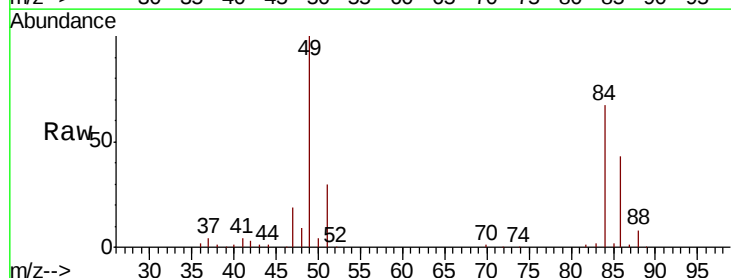
Tgt Ion: 73 Resp: 221406  
 Ion Ratio Lower Upper  
 73 100  
 57 24.7 18.4 27.6

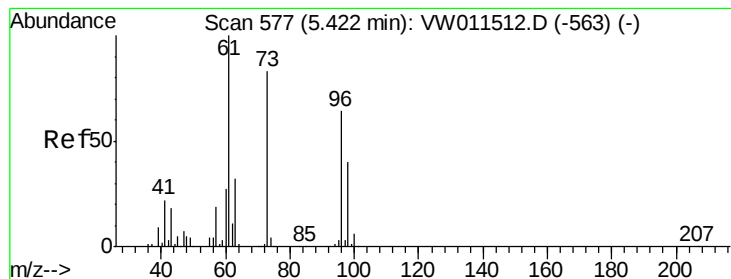


#20

Methylene Chloride  
 Concen: 47.489 ug/l  
 RT: 4.92 min Scan# 494  
 Delta R.T. -0.01 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 84 Resp: 147681  
 Ion Ratio Lower Upper  
 84 100  
 49 148.7 117.8 176.6  
 51 45.2 37.0 55.4  
 86 64.6 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 52.816 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

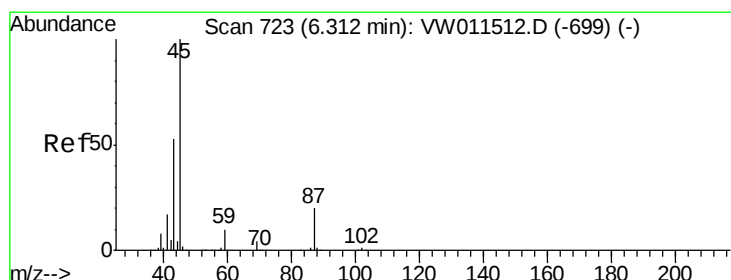
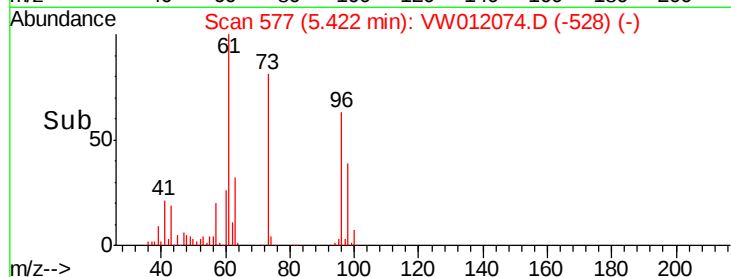
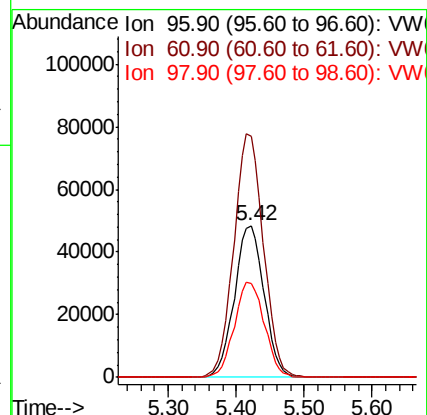
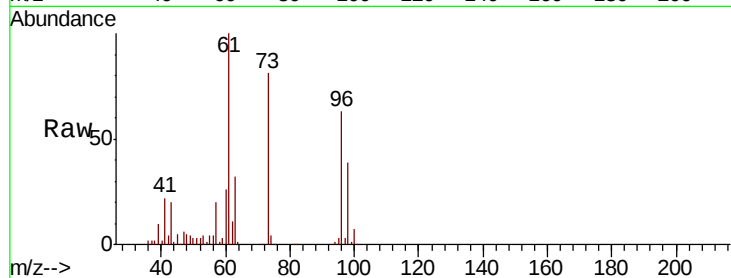
Tgt Ion: 96 Resp: 146394

Ion Ratio Lower Upper

96 100

61 158.9 125.7 188.5

98 61.9 50.3 75.5



#22

Diisopropyl ether

Concen: 53.002 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Tgt Ion: 45 Resp: 546422

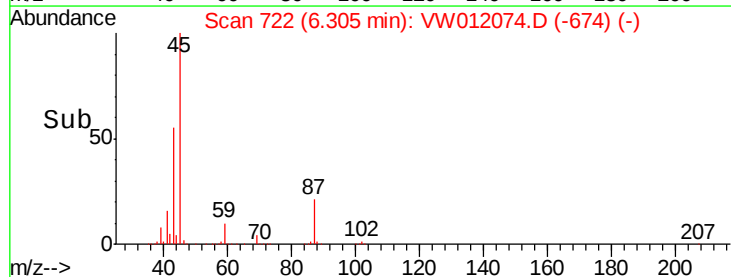
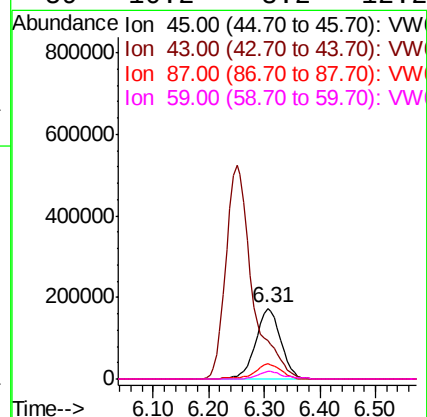
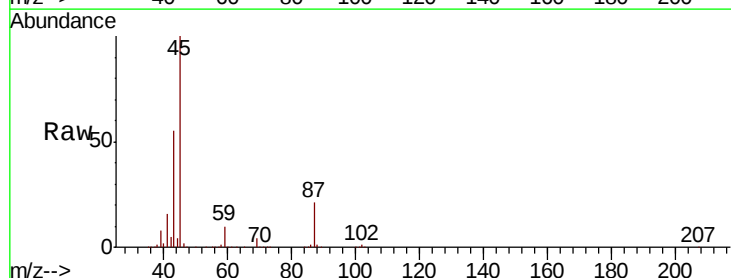
Ion Ratio Lower Upper

45 100

43 54.8 42.6 63.8

87 21.2 16.4 24.6

59 10.2 8.2 12.2

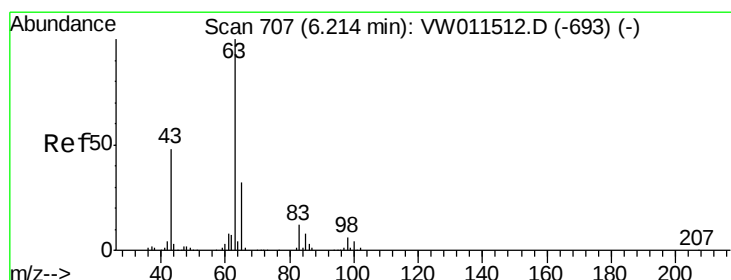
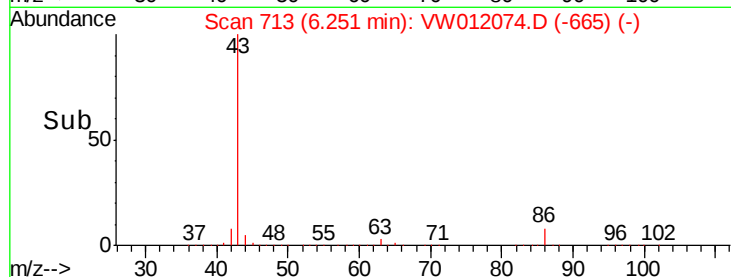
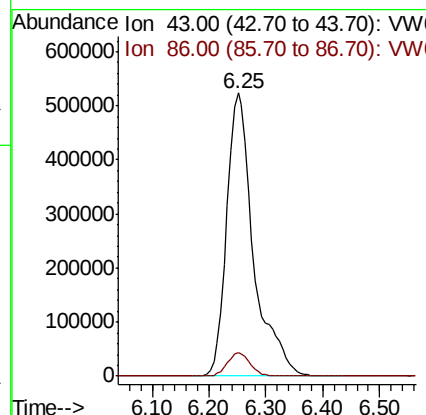
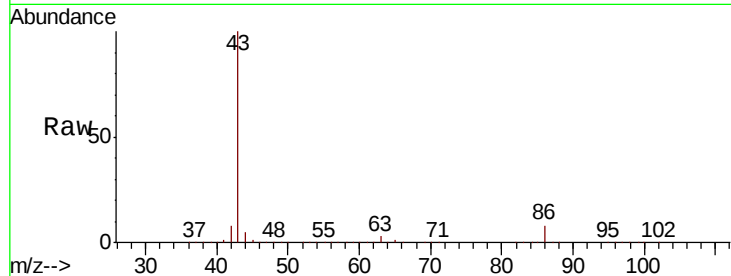




#23  
 Vinyl Acetate  
 Concen: 265.161 ug/l  
 RT: 6.25 min Scan# 713  
 Delta R.T. -0.01 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

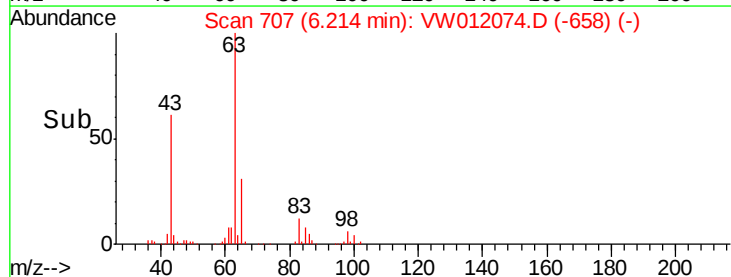
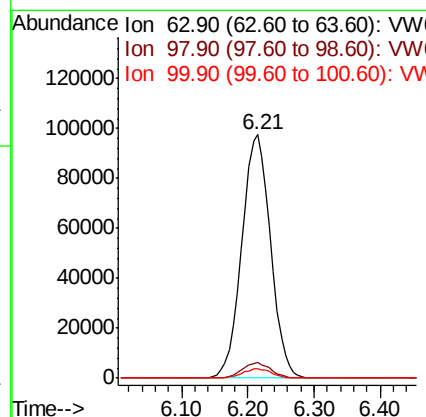
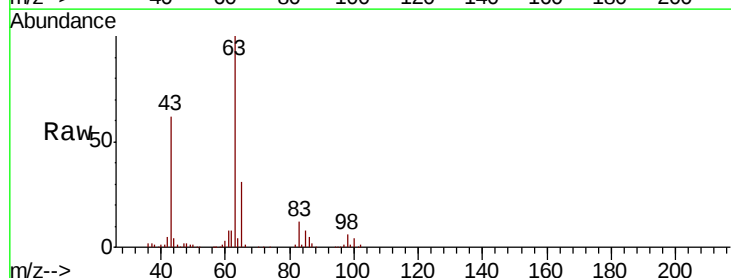
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

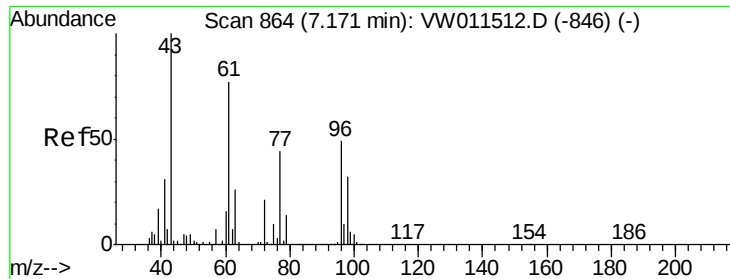
Tgt Ion: 43 Resp: 1717728  
 Ion Ratio Lower Upper  
 43 100  
 86 8.2 6.5 9.7



#24  
 1,1-Dichloroethane  
 Concen: 53.268 ug/l  
 RT: 6.21 min Scan# 707  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 63 Resp: 294116  
 Ion Ratio Lower Upper  
 63 100  
 98 6.5 2.9 8.8  
 100 3.6 2.1 6.3





#25

2-Butanone

Concen: 235.059 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

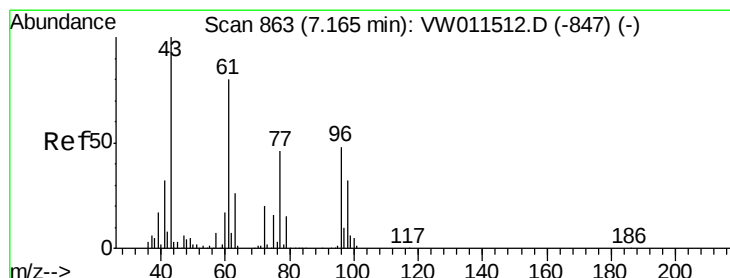
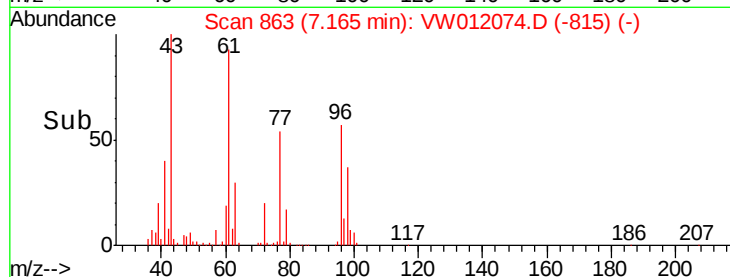
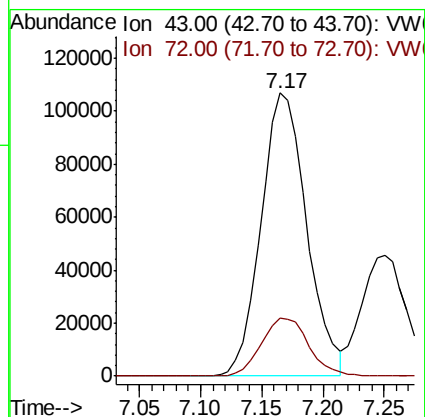
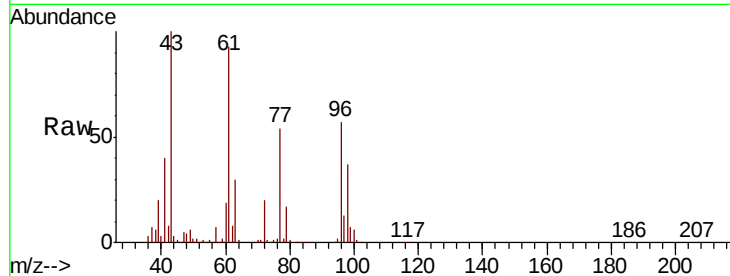
VSTDCCC050

Tgt Ion: 43 Resp: 277346

Ion Ratio Lower Upper

43 100

72 20.4 16.6 24.8



#26

2,2-Dichloropropane

Concen: 49.021 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW012074.D

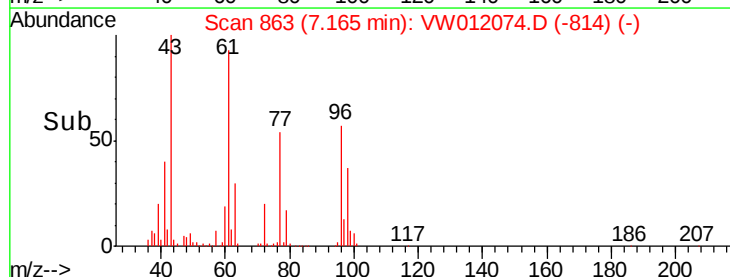
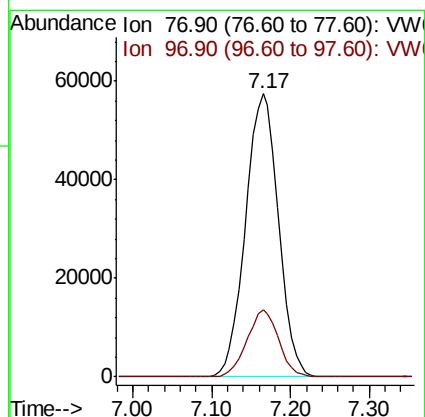
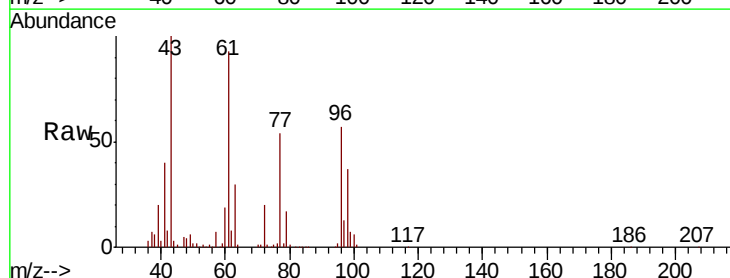
Acq: 21 Aug 2019 16:16

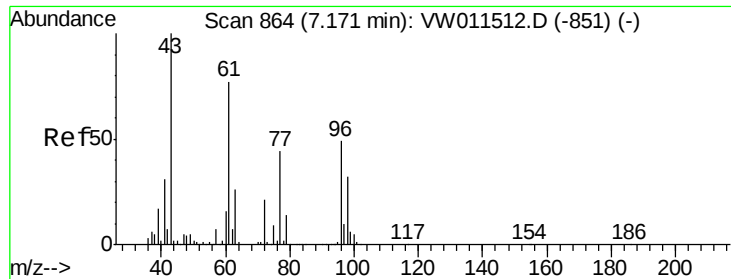
Tgt Ion: 77 Resp: 166457

Ion Ratio Lower Upper

77 100

97 22.7 10.8 32.4



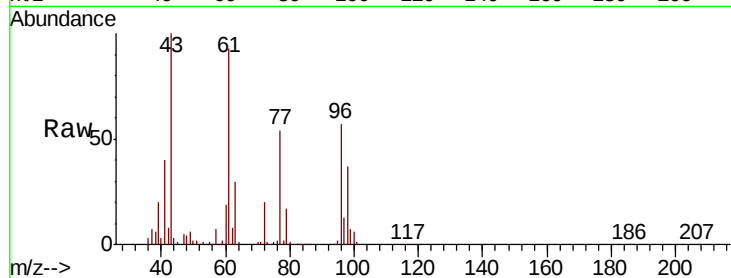


#27

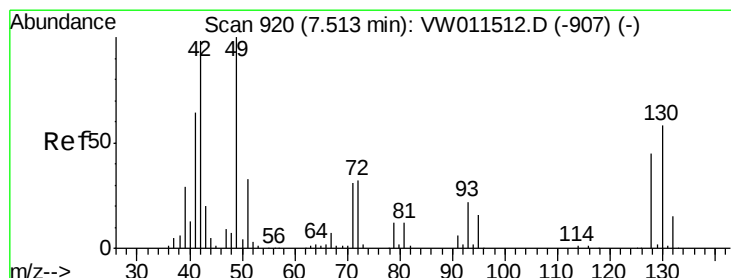
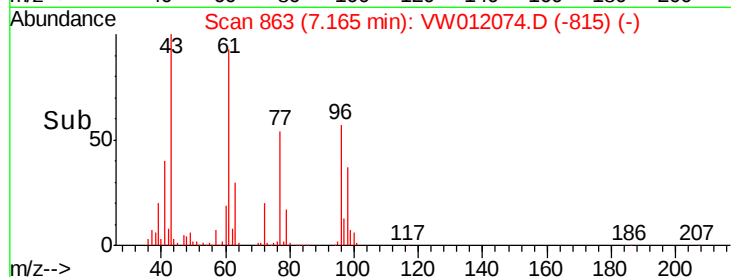
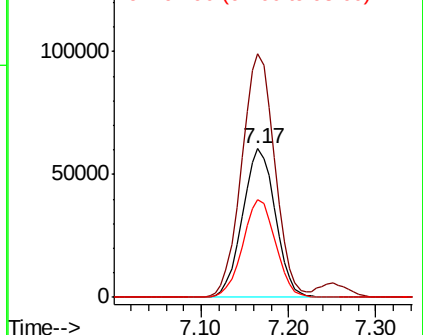
cis-1,2-Dichloroethene  
Concen: 51.894 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 96 Resp: 158308  
Ion Ratio Lower Upper  
96 100  
61 164.7 0.0 328.4  
98 65.3 0.0 128.8



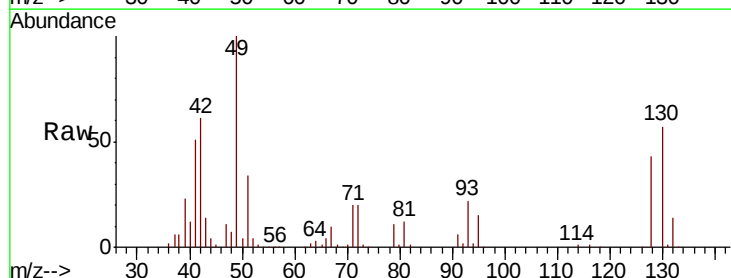
Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



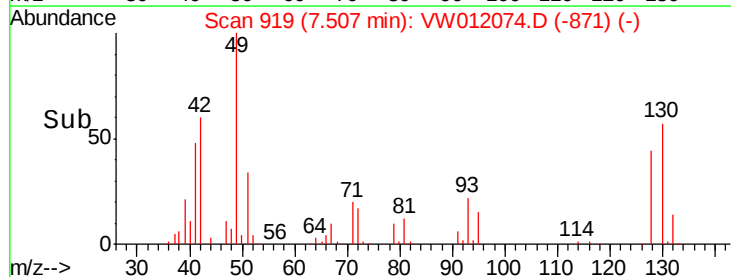
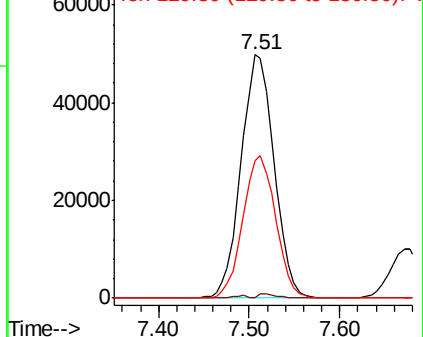
#28

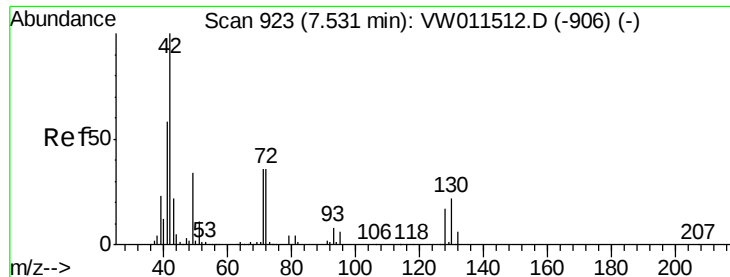
Bromochloromethane  
Concen: 51.385 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion: 49 Resp: 125933  
Ion Ratio Lower Upper  
49 100  
129 0.9 0.0 1.0  
130 58.2 46.3 69.5



Abundance Ion 48.90 (48.60 to 49.60): VW  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V

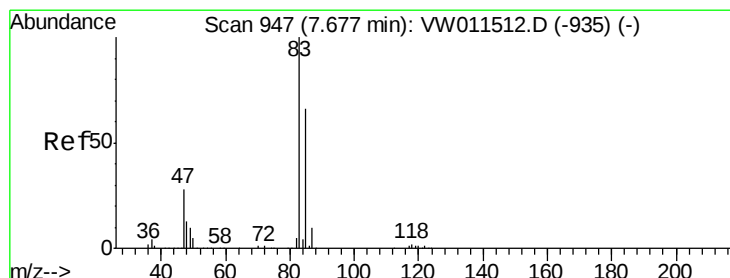
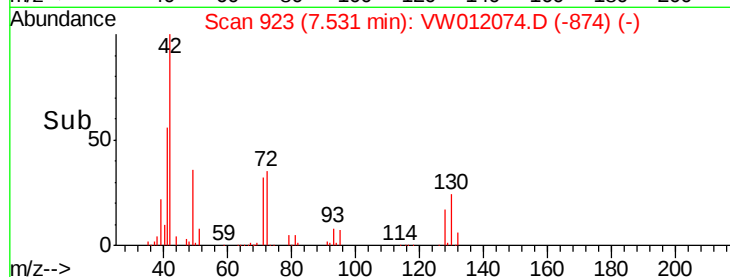
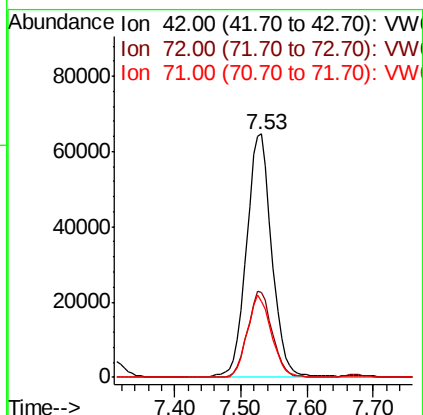
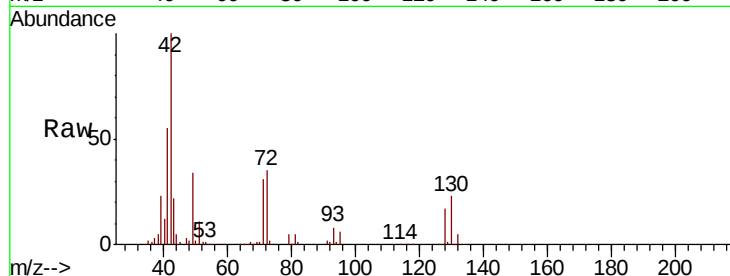




#29  
Tetrahydrofuran  
Concen: 255.830 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

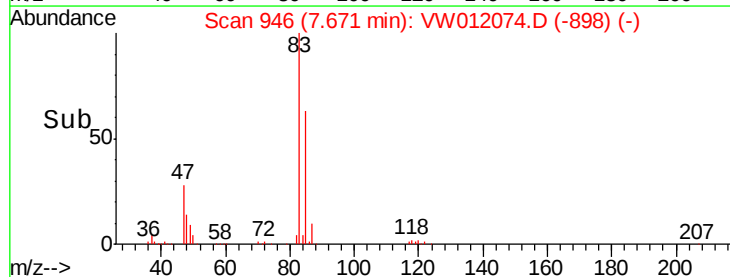
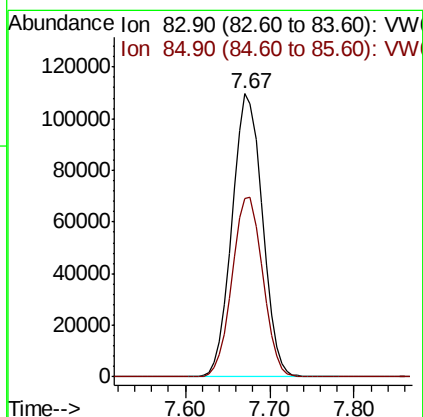
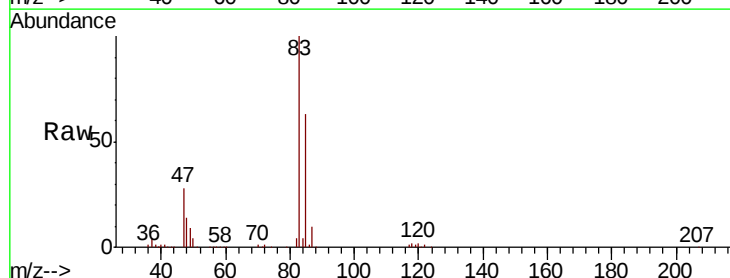
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

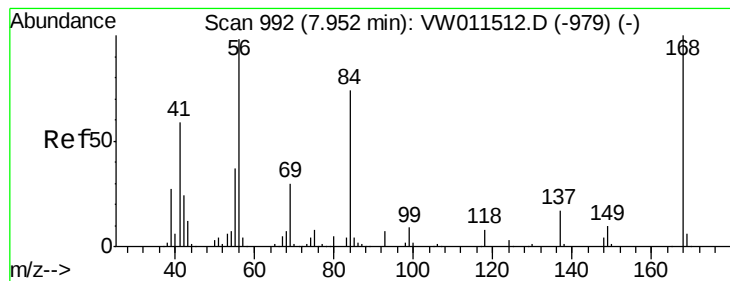
Tgt Ion: 42 Resp: 172542  
Ion Ratio Lower Upper  
42 100  
72 34.4 27.1 40.7  
71 32.3 26.2 39.4



#30  
Chloroform  
Concen: 52.471 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion: 83 Resp: 267285  
Ion Ratio Lower Upper  
83 100  
85 63.2 52.5 78.7





#31

Cyclohexane

Concen: 51.299 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

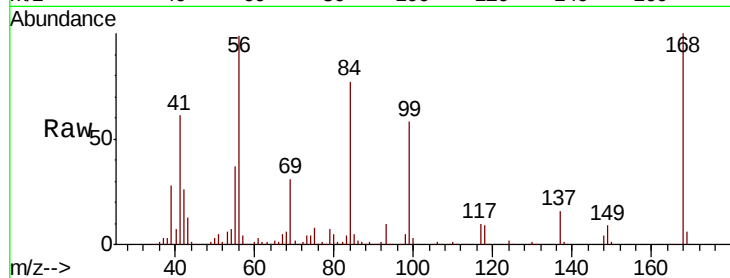
Tgt Ion: 56 Resp: 271893

Ion Ratio Lower Upper

56 100

69 31.3 24.3 36.5

84 76.0 60.4 90.6

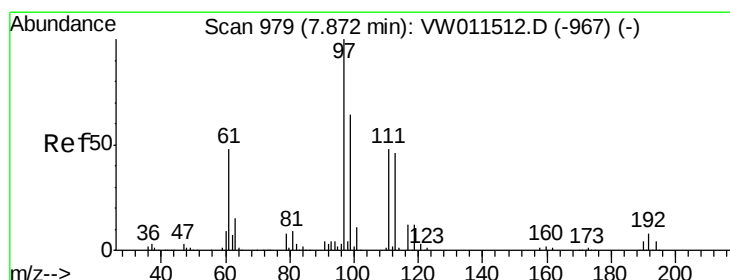
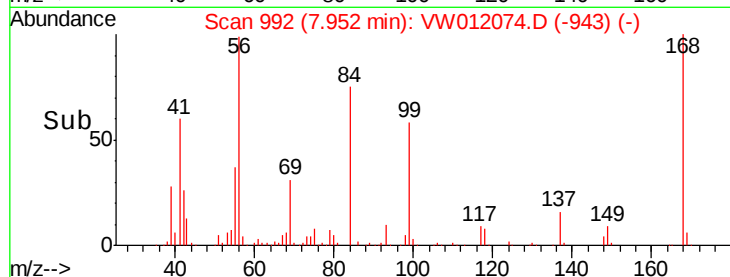
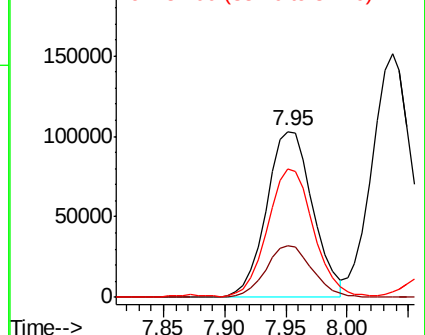


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#32

1,1,1-Trichloroethane

Concen: 55.040 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

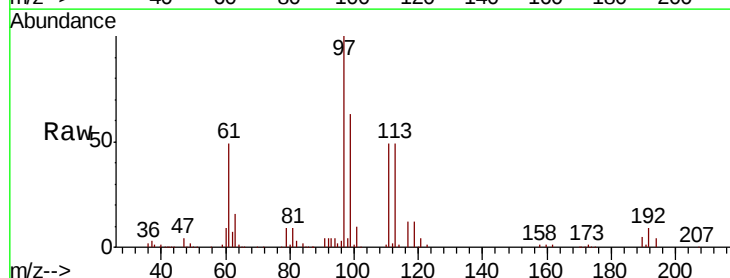
Tgt Ion: 97 Resp: 213520

Ion Ratio Lower Upper

97 100

99 63.9 51.0 76.6

61 49.0 39.8 59.6

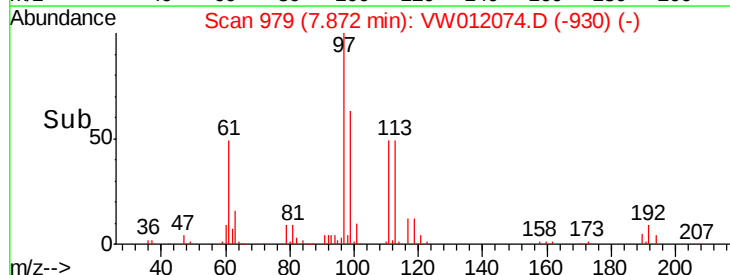
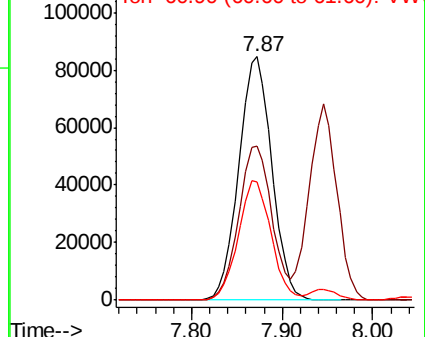


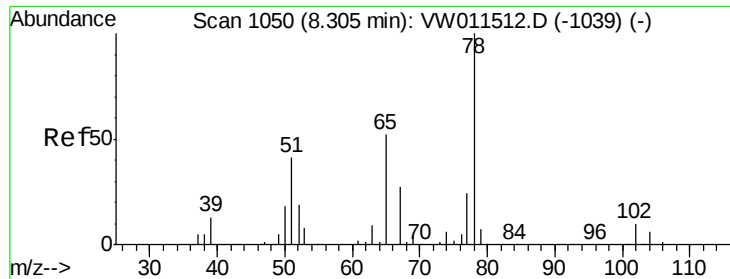
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 98.90 (98.60 to 99.60): VW

Ion 60.90 (60.60 to 61.60): VW

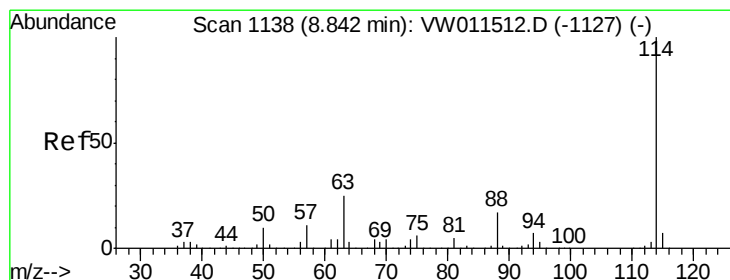
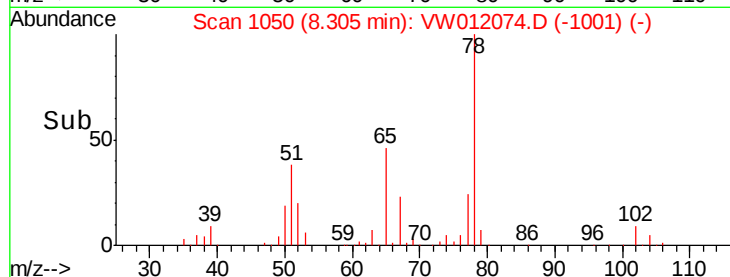
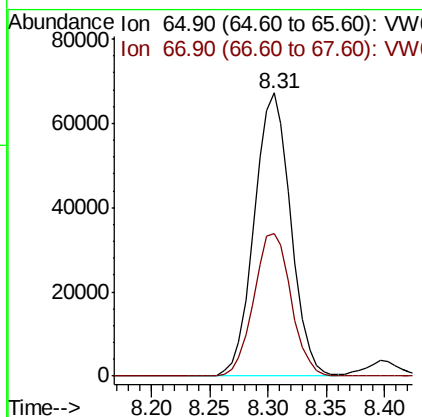
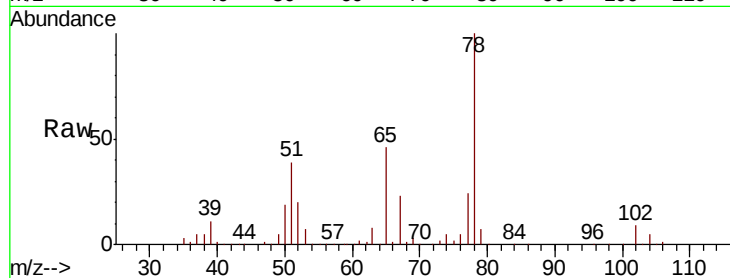




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.748 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

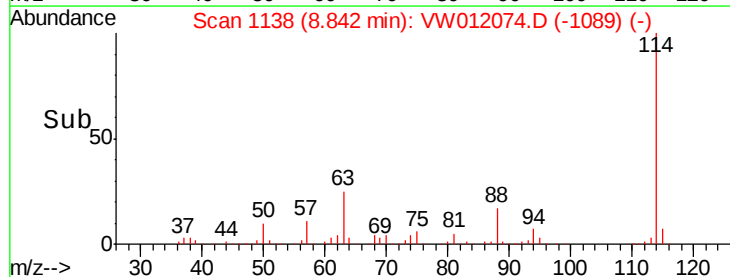
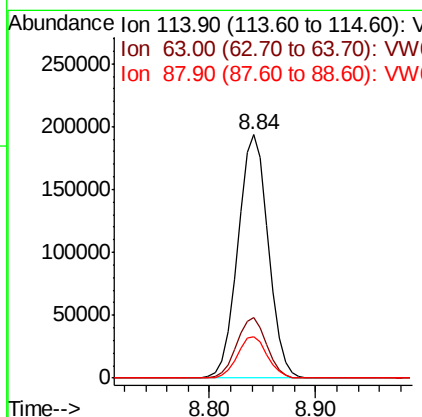
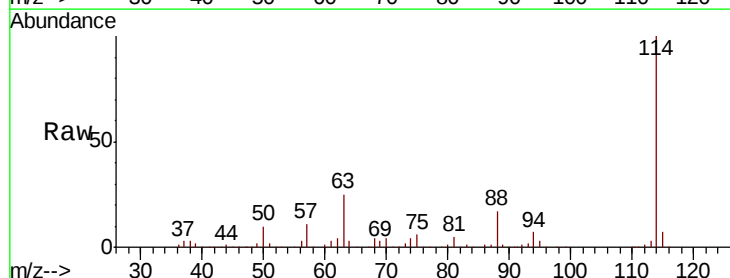
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

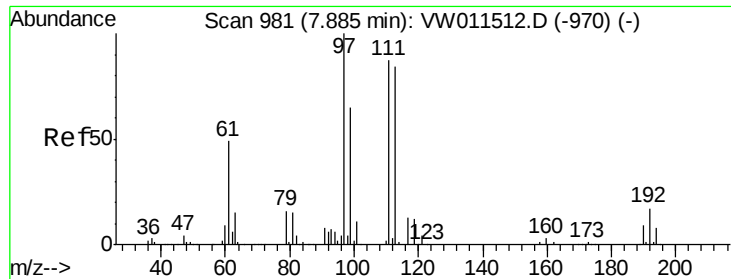
Tgt Ion: 65 Resp: 146687  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 114 Resp: 387422  
 Ion Ratio Lower Upper  
 114 100  
 63 24.8 0.0 49.2  
 88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 56.267 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

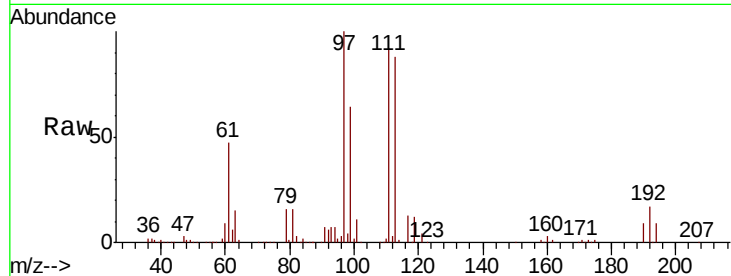
Tgt Ion:113 Resp: 122297

Ion Ratio Lower Upper

113 100

111 103.6 82.7 124.1

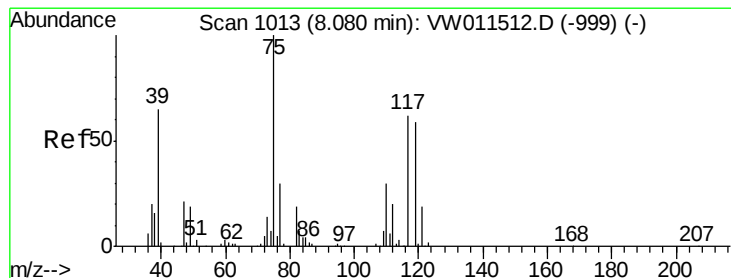
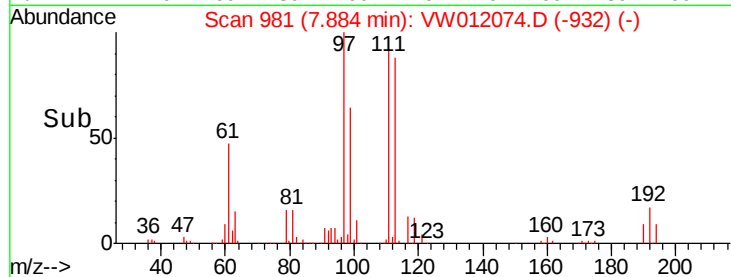
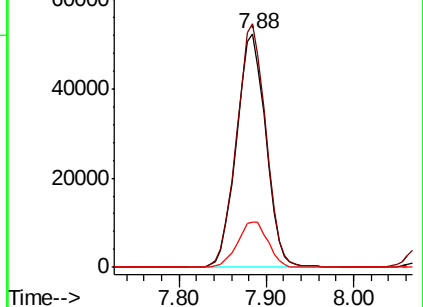
192 20.2 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 56.095 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

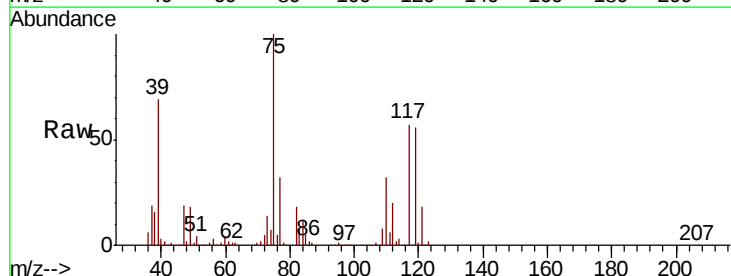
Tgt Ion: 75 Resp: 225978

Ion Ratio Lower Upper

75 100

110 31.5 15.6 46.8

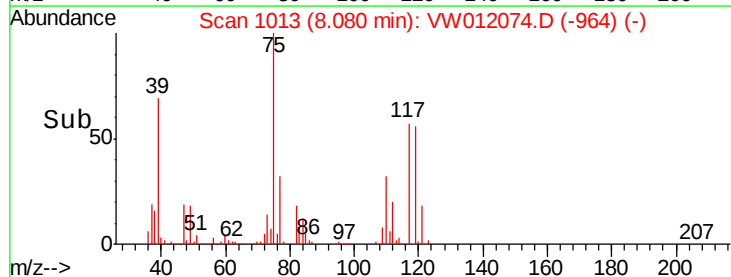
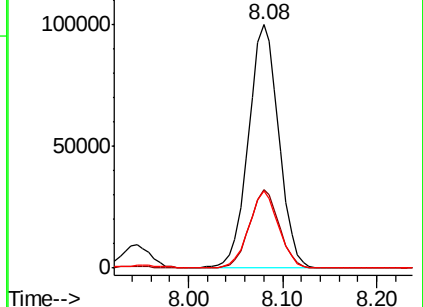
77 31.2 24.3 36.5

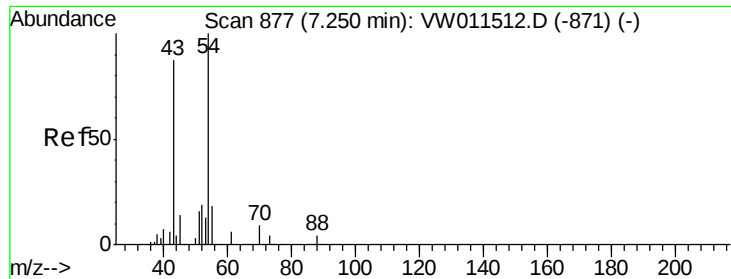


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

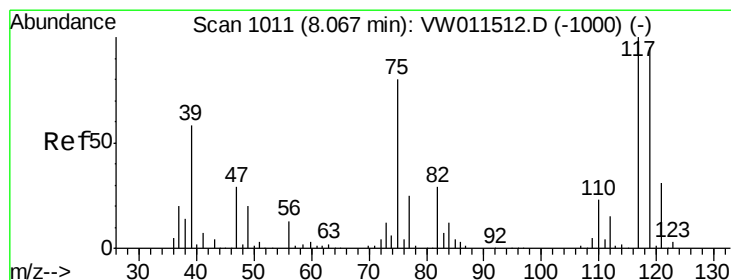
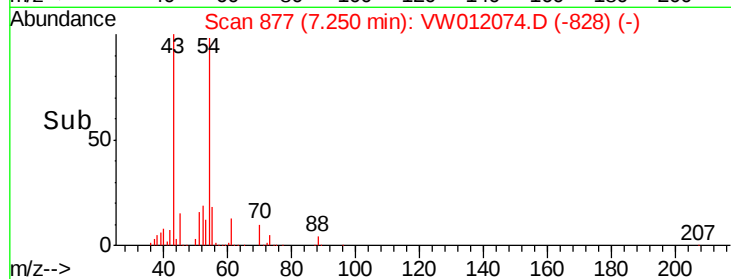
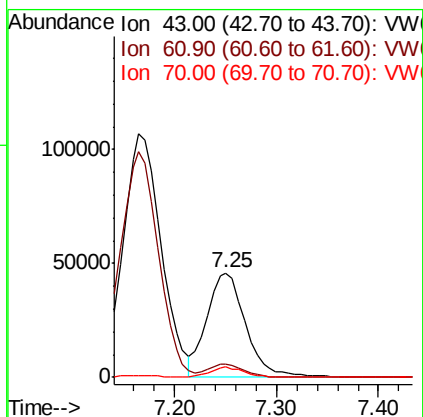
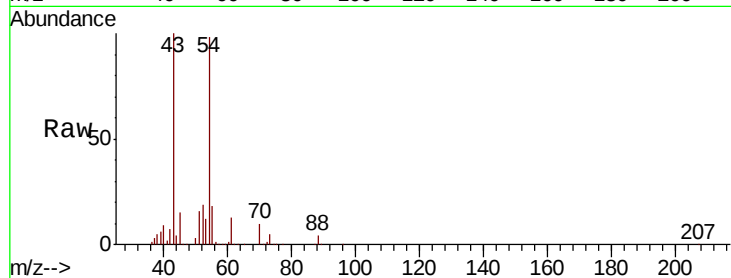




#37  
Ethyl Acetate  
Concen: 51.657 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

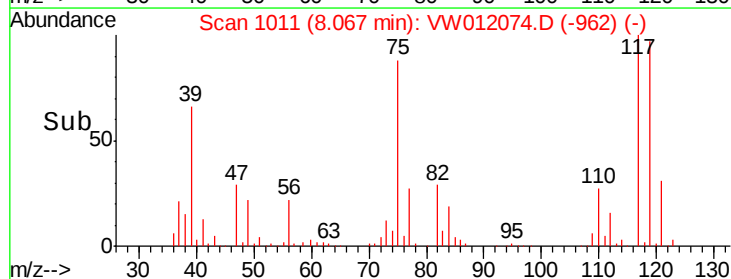
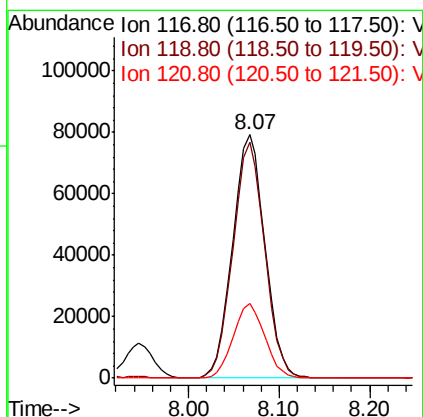
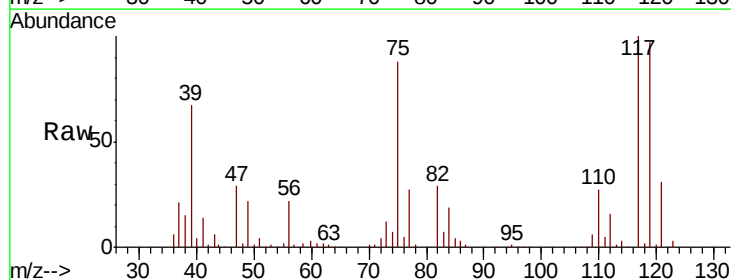
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

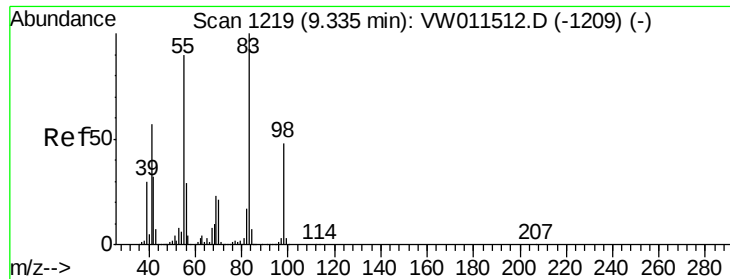
Tgt Ion: 43 Resp: 119725  
Ion Ratio Lower Upper  
43 100  
61 12.1 8.8 13.2  
70 8.8 7.1 10.7



#38  
Carbon Tetrachloride  
Concen: 56.824 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion: 117 Resp: 195965  
Ion Ratio Lower Upper  
117 100  
119 96.7 75.8 113.6  
121 30.7 24.7 37.1

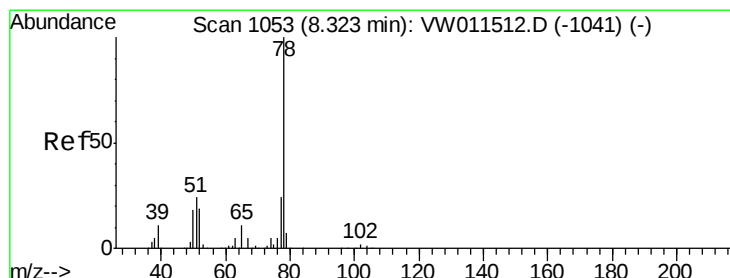
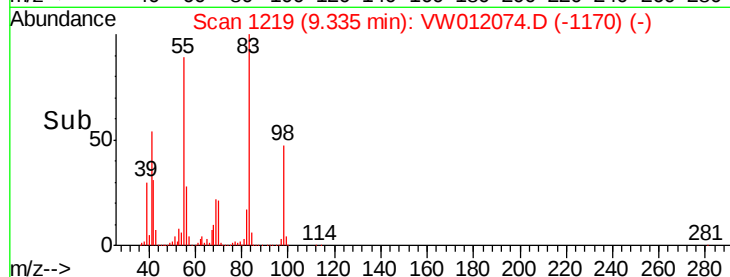
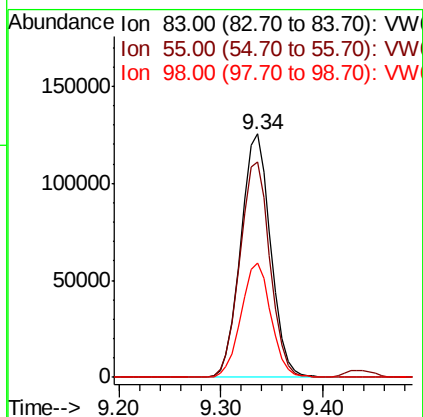
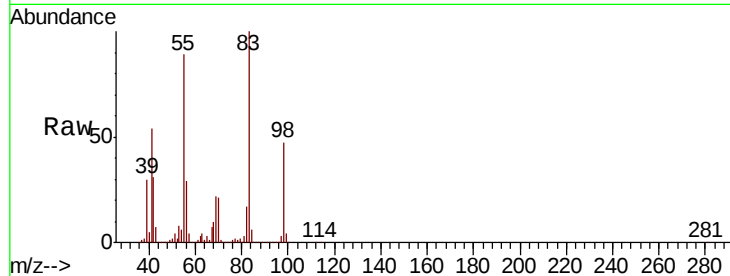




#39  
Methylcyclohexane  
Concen: 57.700 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

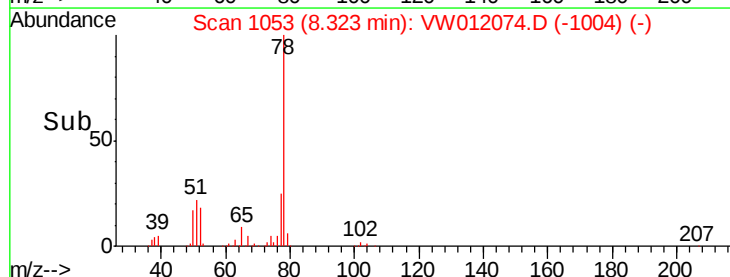
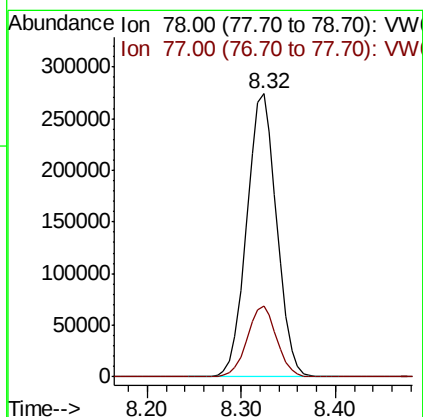
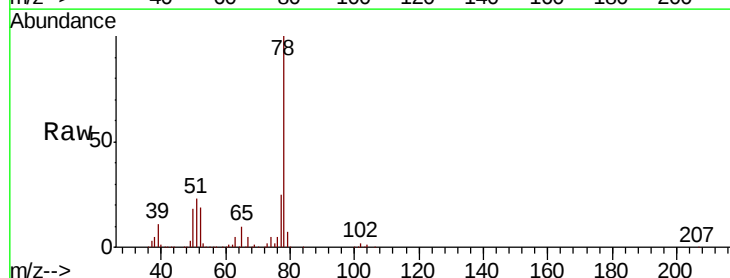
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

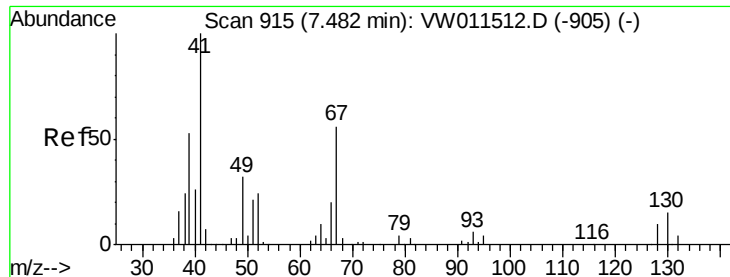
Tgt Ion: 83 Resp: 255949  
Ion Ratio Lower Upper  
83 100  
55 88.6 72.1 108.1  
98 47.2 38.6 57.8



#40  
Benzene  
Concen: 54.134 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion: 78 Resp: 610848  
Ion Ratio Lower Upper  
78 100  
77 24.9 19.4 29.0





#41

Methacrylonitrile

Concen: 54.510 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 75521

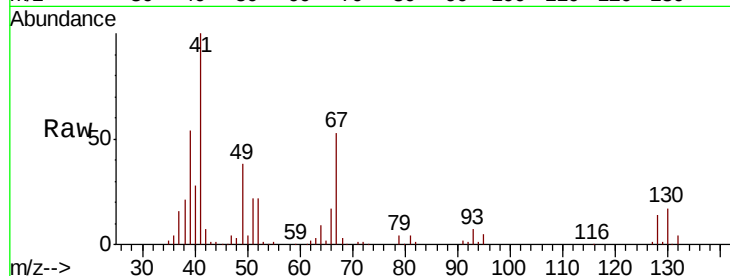
Ion Ratio Lower Upper

41 100

39 53.1 43.0 64.4

67 57.1 47.5 71.3

52 25.0 21.0 31.6

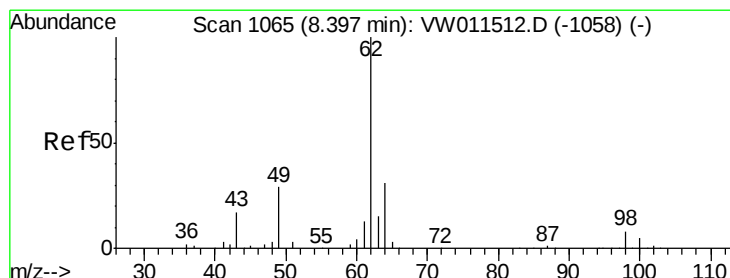
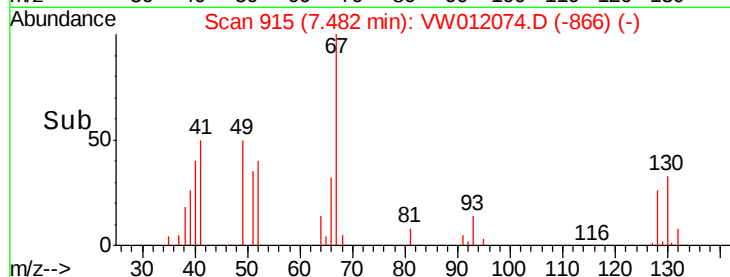
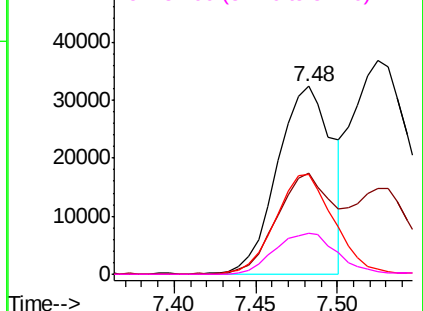


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 53.133 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW012074.D

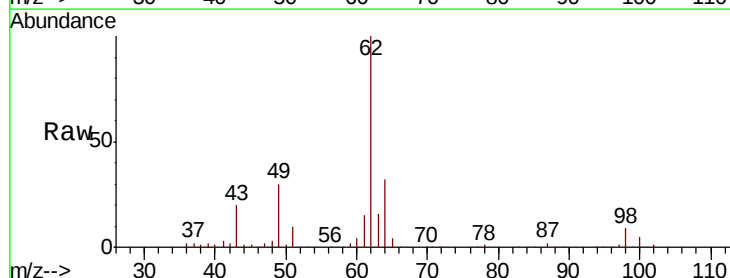
Acq: 21 Aug 2019 16:16

Tgt Ion: 62 Resp: 187712

Ion Ratio Lower Upper

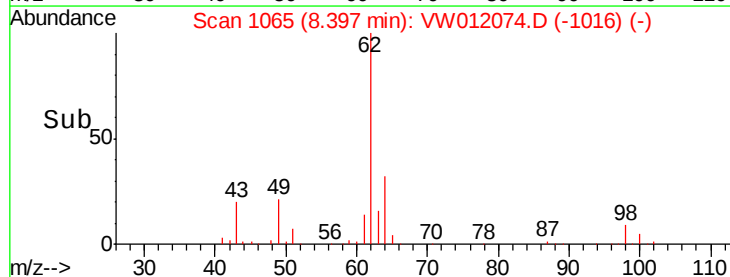
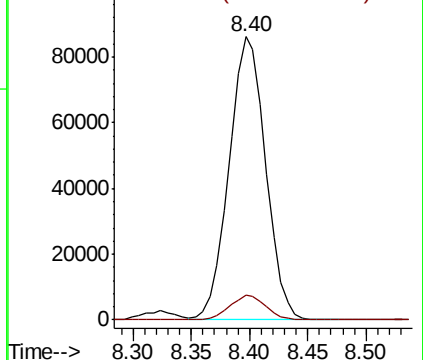
62 100

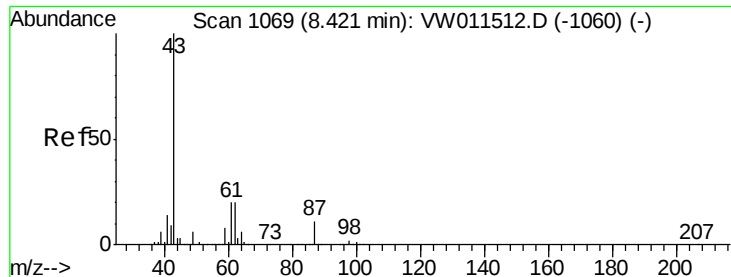
98 8.6 0.0 16.8



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 53.883 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

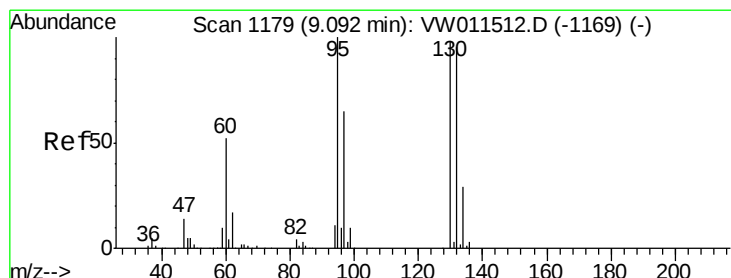
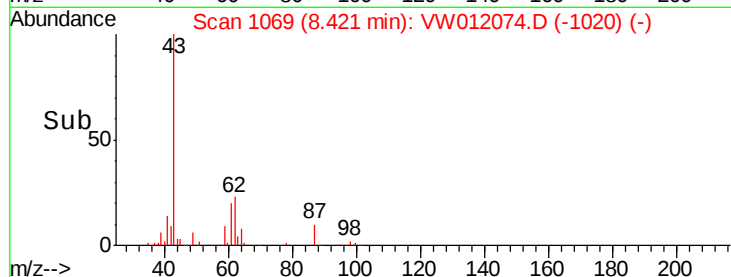
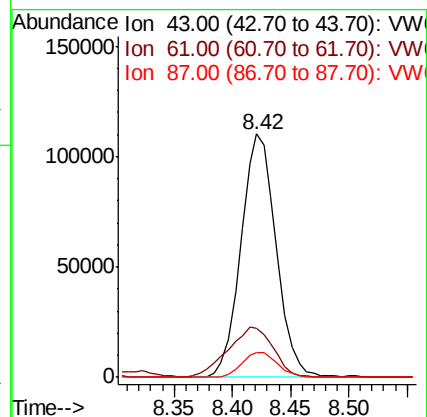
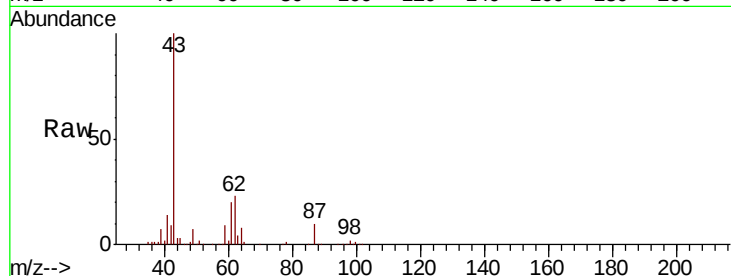
Tgt Ion: 43 Resp: 229674

Ion Ratio Lower Upper

43 100

61 26.5 21.5 32.3

87 10.4 8.4 12.6



#44

Trichloroethene

Concen: 55.262 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012074.D

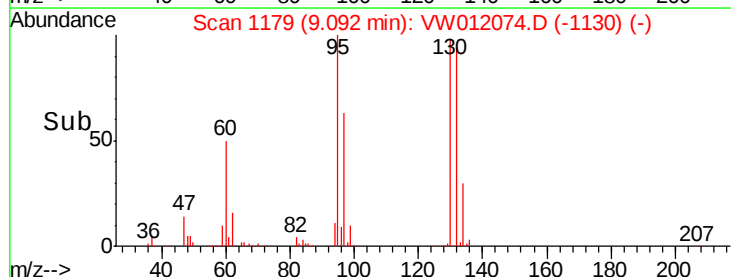
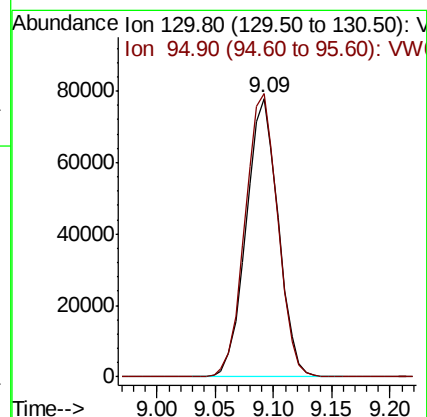
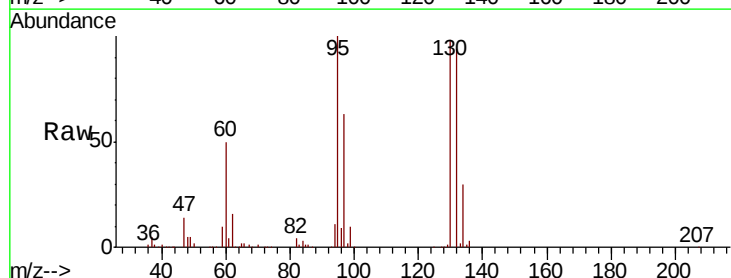
Acq: 21 Aug 2019 16:16

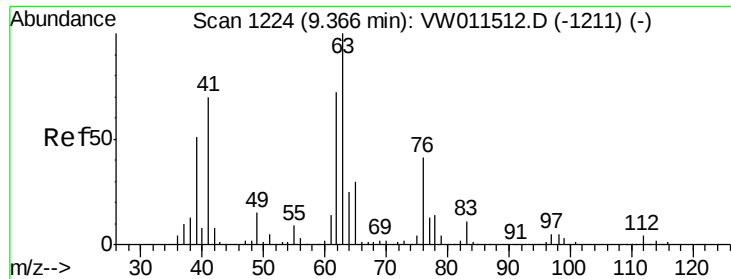
Tgt Ion: 130 Resp: 149876

Ion Ratio Lower Upper

130 100

95 101.5 0.0 204.8

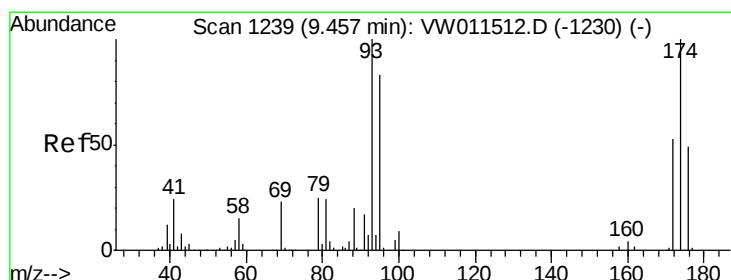
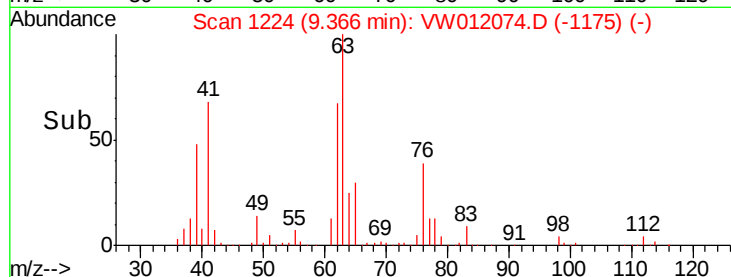
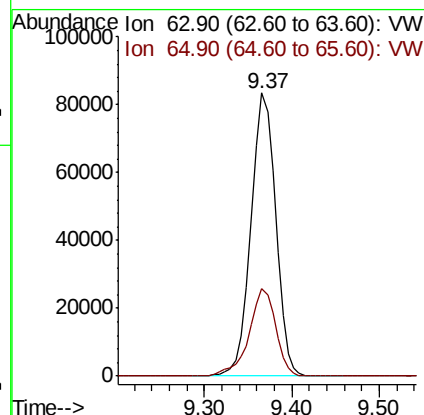
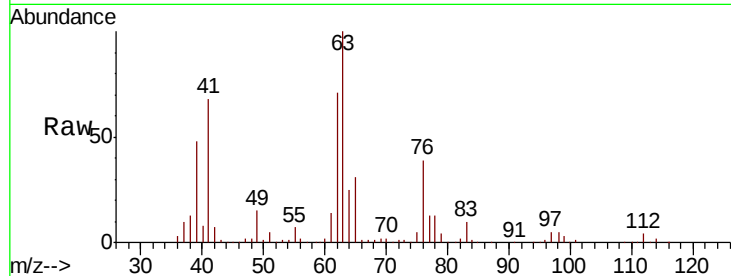




#45  
 1,2-Dichloropropane  
 Concen: 54.423 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

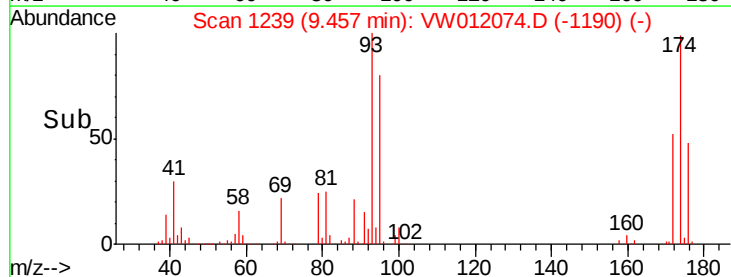
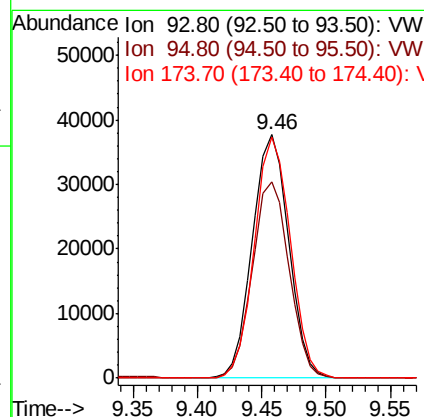
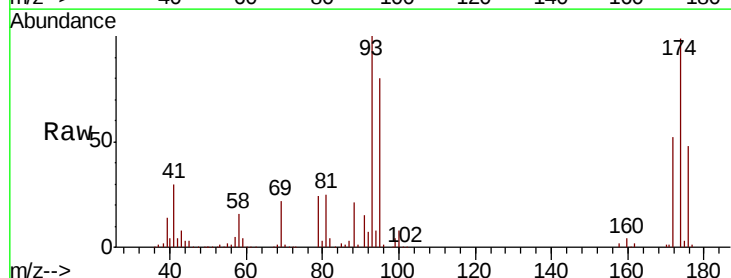
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

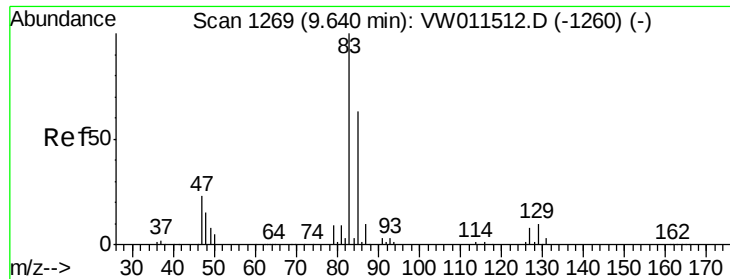
Tgt Ion: 63 Resp: 164315  
 Ion Ratio Lower Upper  
 63 100  
 65 30.9 24.2 36.4



#46  
 Dibromomethane  
 Concen: 53.542 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 93 Resp: 73783  
 Ion Ratio Lower Upper  
 93 100  
 95 81.4 66.2 99.2  
 174 98.0 78.2 117.4

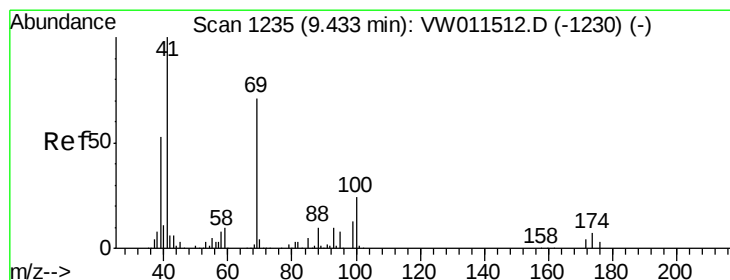
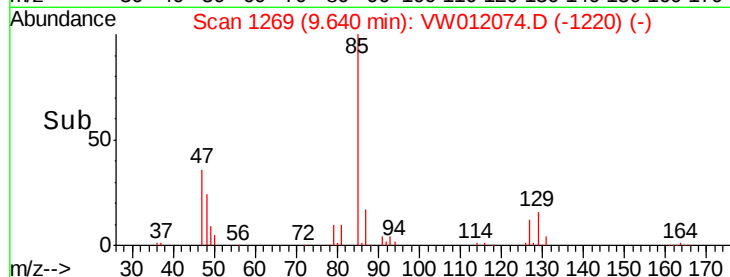
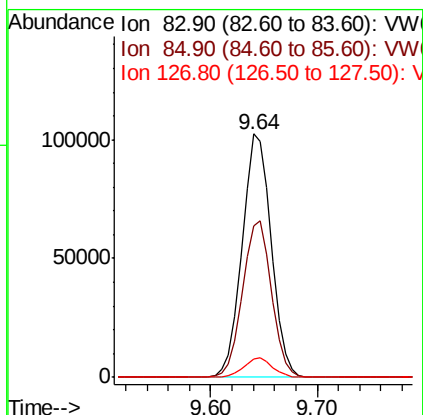
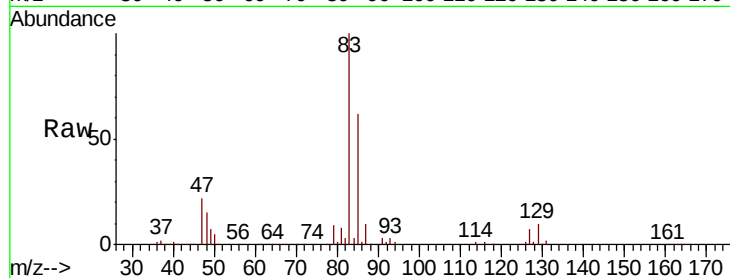




#47  
 Bromodichloromethane  
 Concen: 54.465 ug/l  
 RT: 9.64 min Scan# 1269  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

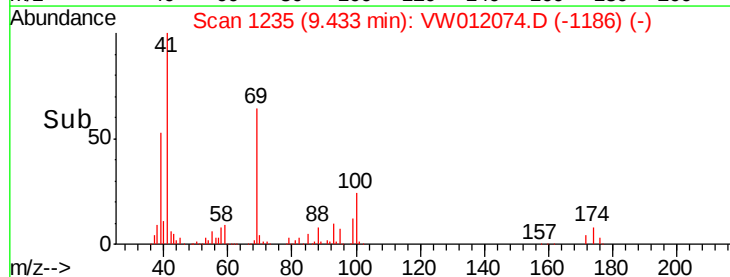
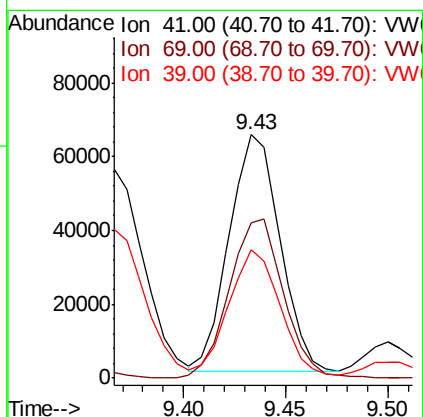
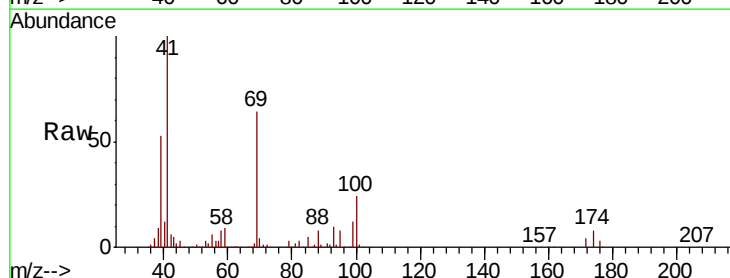
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

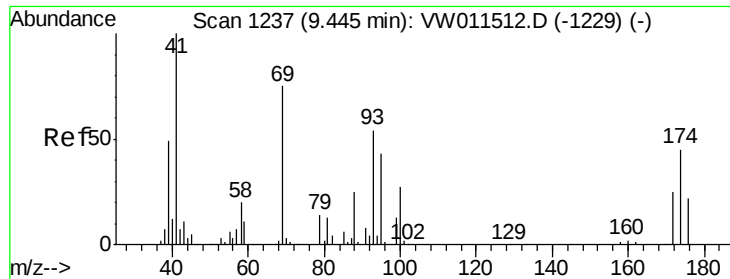
Tgt Ion: 83 Resp: 196878  
 Ion Ratio Lower Upper  
 83 100  
 85 62.0 50.5 75.7  
 127 7.4 6.4 9.6



#48  
 Methyl methacrylate  
 Concen: 54.061 ug/l  
 RT: 9.43 min Scan# 1235  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 41 Resp: 110690  
 Ion Ratio Lower Upper  
 41 100  
 69 71.5 57.1 85.7  
 39 52.6 45.4 68.2

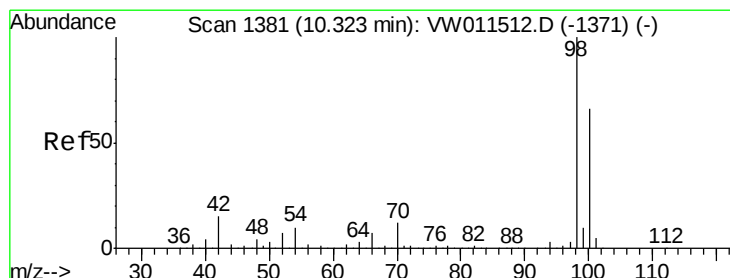
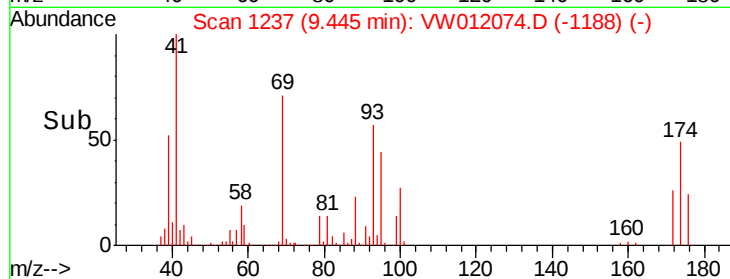
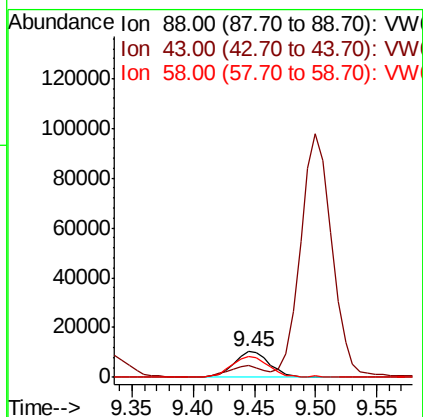
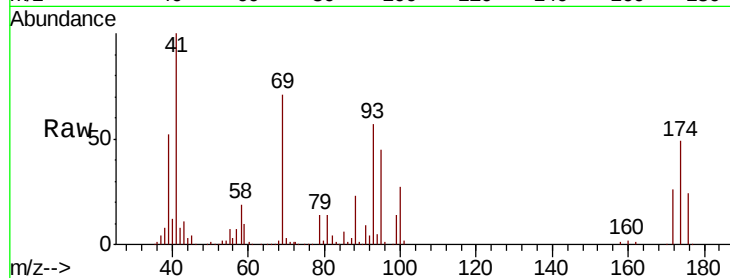




#49  
 1,4-Dioxane  
 Concen: 1063.349 ug/l  
 RT: 9.45 min Scan# 1237  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

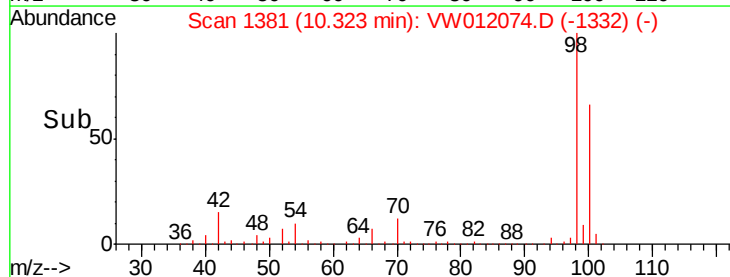
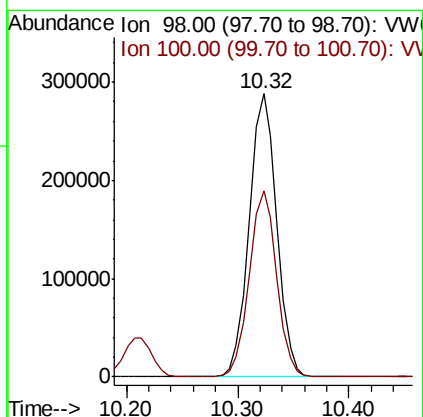
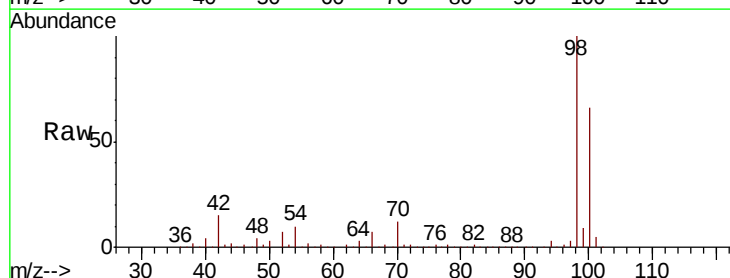
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Tgt Ion: 88 Resp: 21217  
 Ion Ratio Lower Upper  
 88 100  
 43 43.4 34.0 51.0  
 58 87.1 69.7 104.5



#50  
 Toluene-d8  
 Concen: 55.658 ug/l  
 RT: 10.32 min Scan# 1381  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 98 Resp: 495299  
 Ion Ratio Lower Upper  
 98 100  
 100 65.3 52.7 79.1

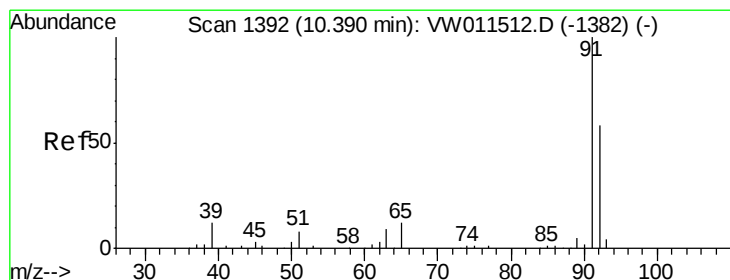
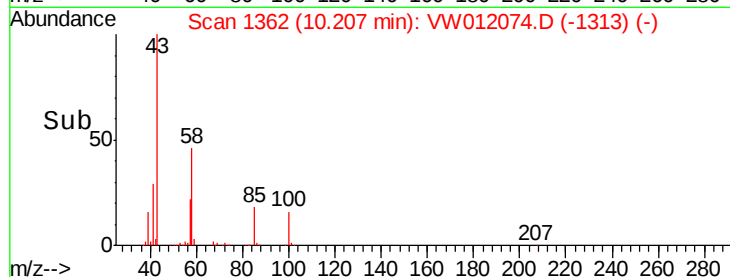
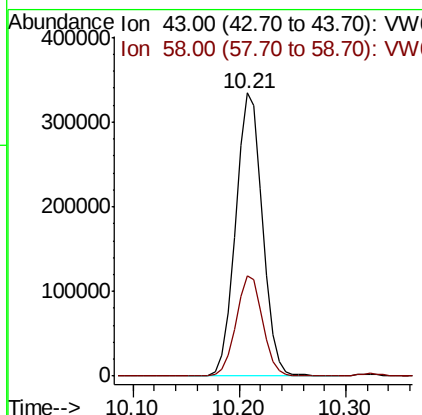
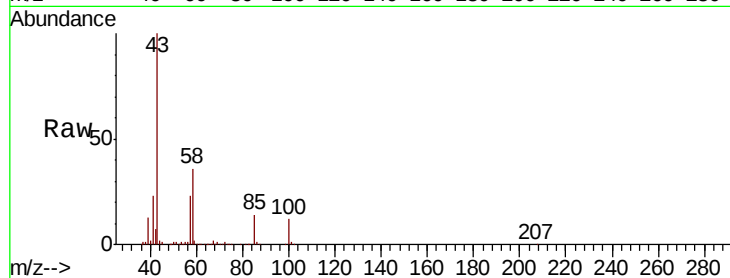




#51  
4-Methyl-2-Pentanone  
Concen: 266.597 ug/l  
RT: 10.21 min Scan# 1362  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

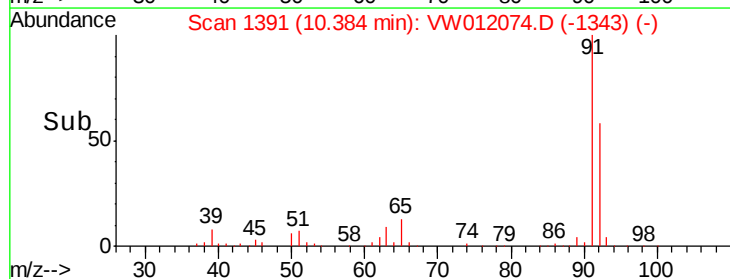
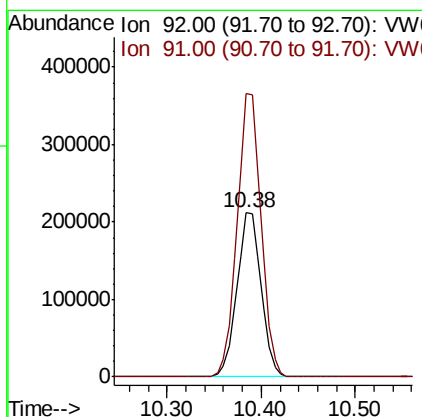
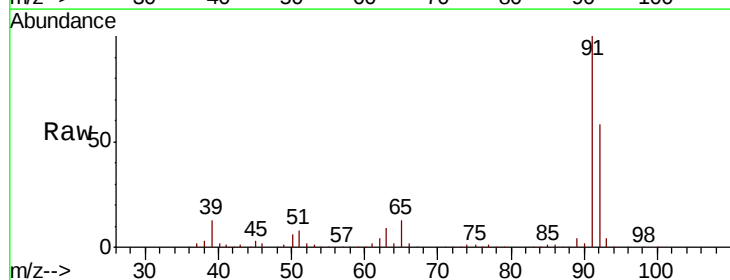
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

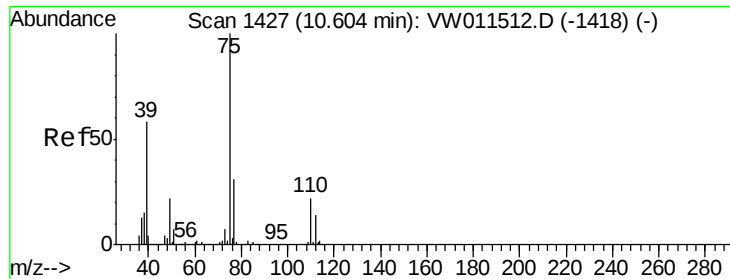
Tgt Ion: 43 Resp: 591070  
Ion Ratio Lower Upper  
43 100  
58 35.3 28.2 42.2



#52  
Toluene  
Concen: 55.154 ug/l  
RT: 10.38 min Scan# 1391  
Delta R.T. -0.01 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion: 92 Resp: 375843  
Ion Ratio Lower Upper  
92 100  
91 171.5 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 54.214 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampled :

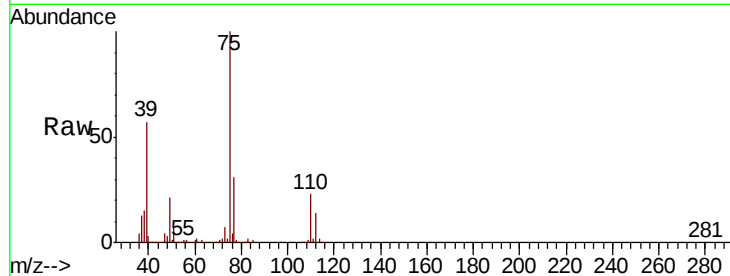
VSTDCCC050

Tgt Ion: 75 Resp: 204714

Ion Ratio Lower Upper

75 100

77 31.1 25.0 37.4



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

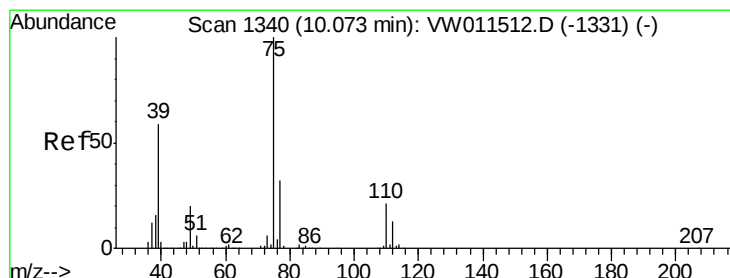
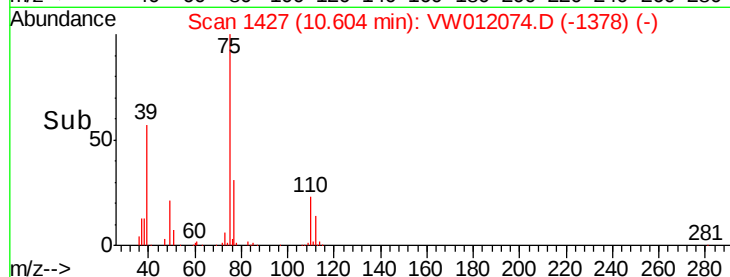
10.60

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 54.874 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

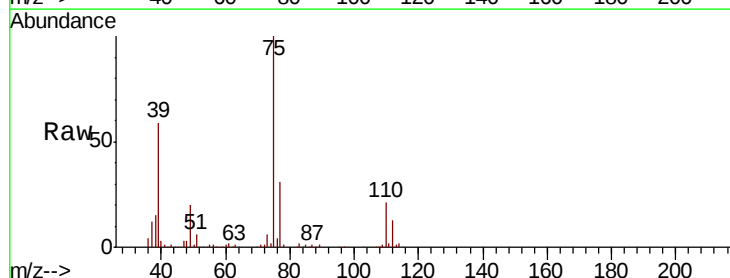
Tgt Ion: 75 Resp: 246364

Ion Ratio Lower Upper

75 100

77 30.9 25.6 38.4

39 59.0 47.0 70.4



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

10.07

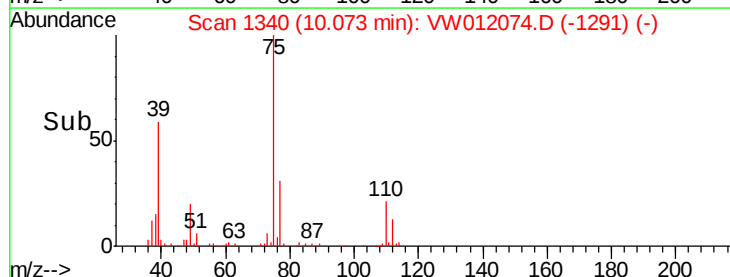
150000

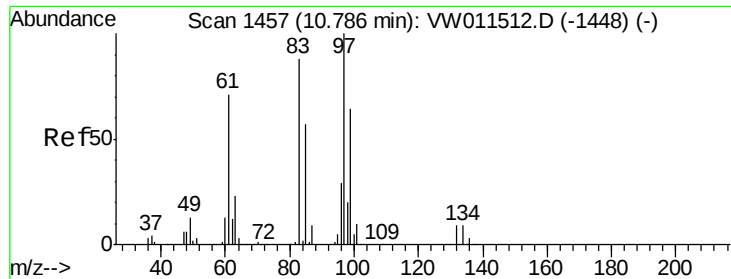
100000

50000

0

Time-->

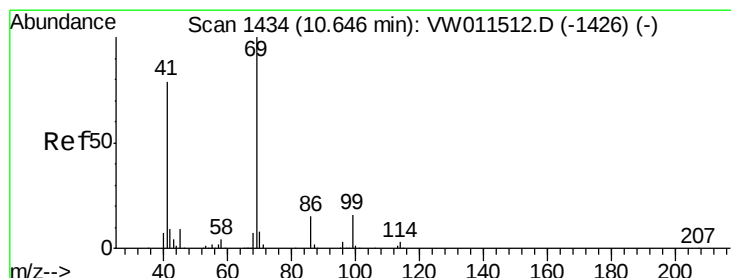
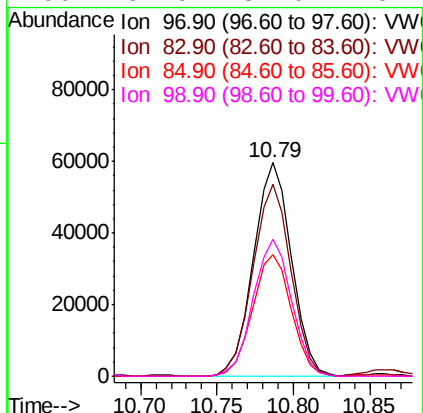
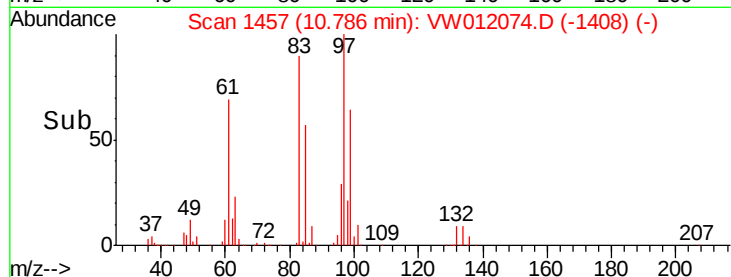
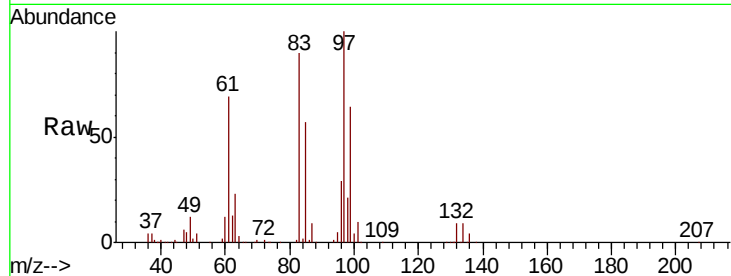




#55  
 1,1,2-Trichloroethane  
 Concen: 52.725 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

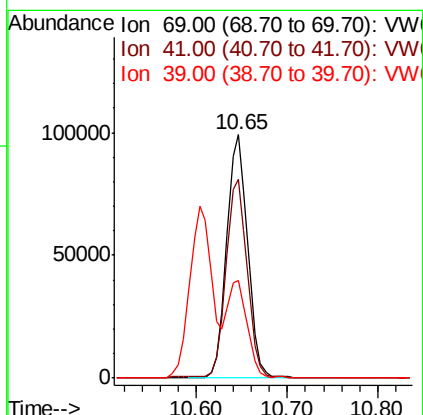
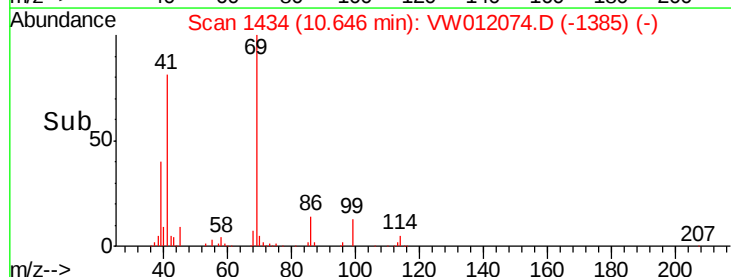
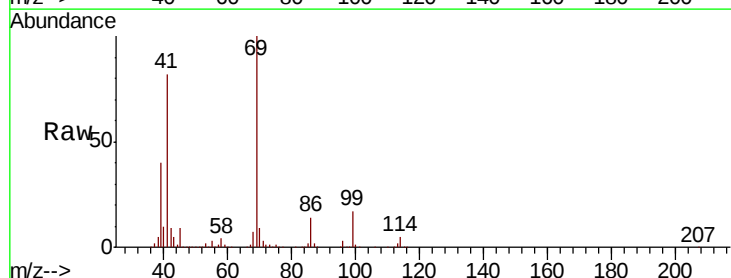
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

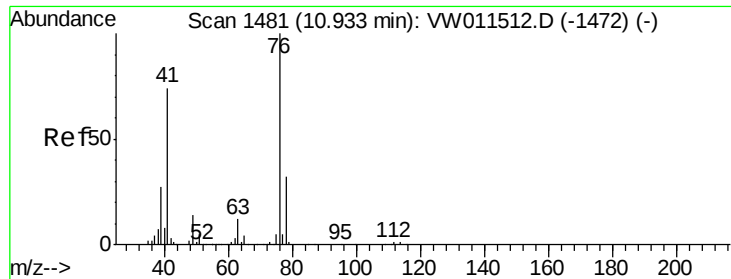
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 103090 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 90.1  | 70.5  | 105.7  |
| 85       | 57.1  | 45.8  | 68.6   |
| 99       | 64.0  | 51.0  | 76.4   |



#56  
 Ethyl methacrylate  
 Concen: 55.754 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 159518 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 81.2  | 66.6  | 99.8   |
| 39       | 37.3  | 30.3  | 45.5   |

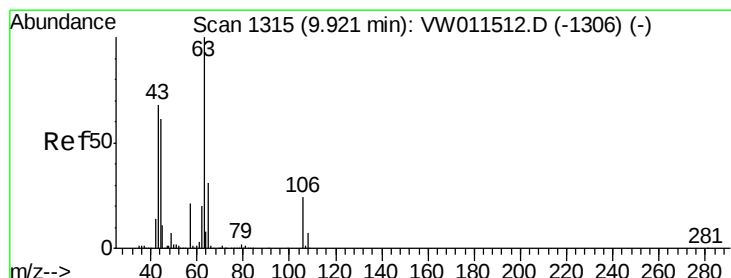
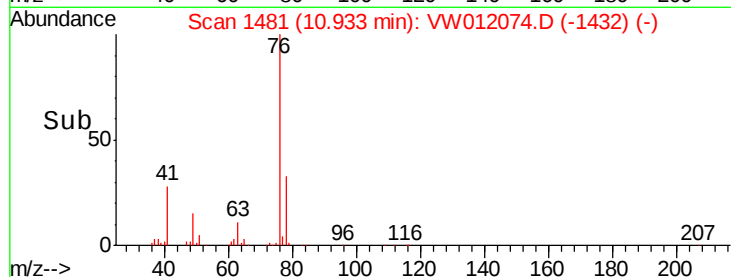
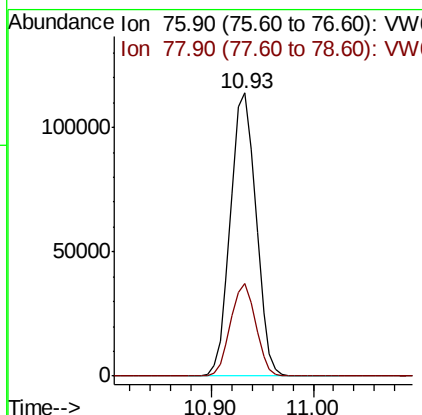
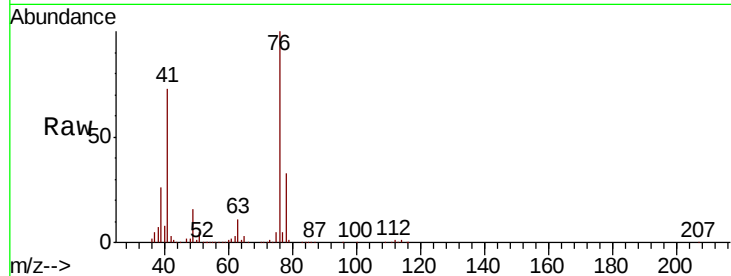




#57  
 1,3-Dichloropropane  
 Concen: 53.475 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

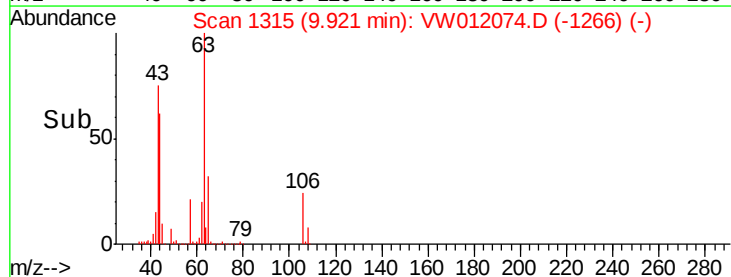
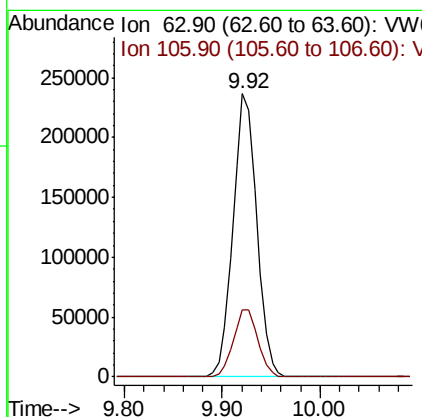
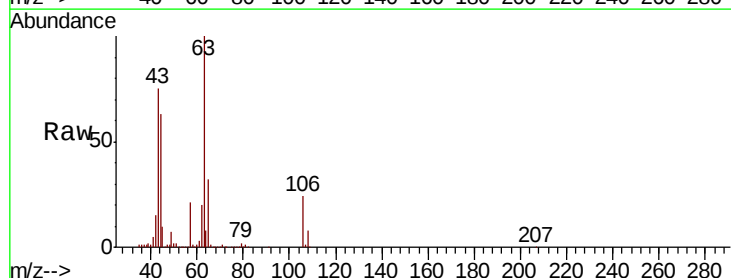
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Tgt Ion: 76 Resp: 197807  
 Ion Ratio Lower Upper  
 76 100  
 78 32.3 25.2 37.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 306.213 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 63 Resp: 397789  
 Ion Ratio Lower Upper  
 63 100  
 106 24.6 19.7 29.5





#59

2-Hexanone

Concen: 264.844 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

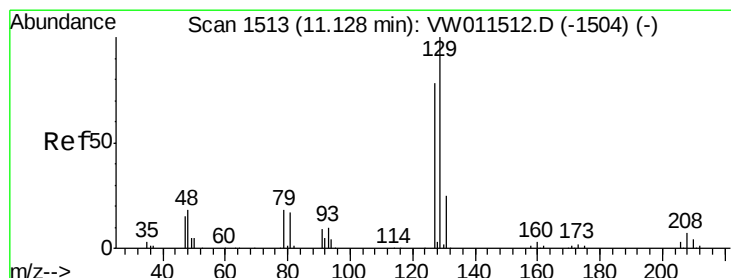
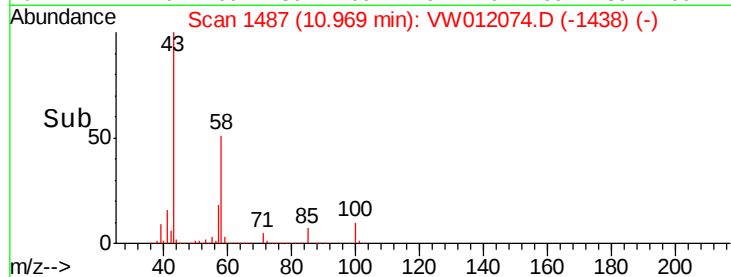
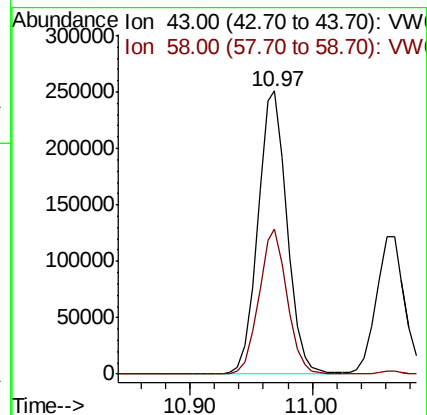
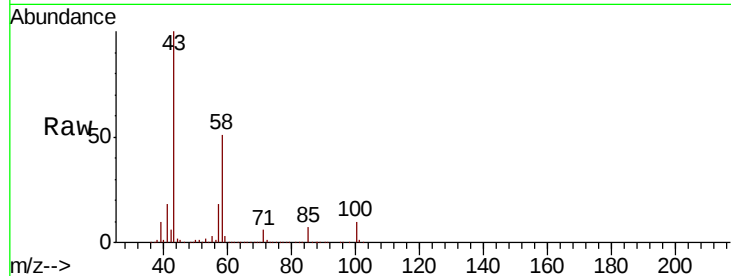
VSTDCCC050

Tgt Ion: 43 Resp: 414589

Ion Ratio Lower Upper

43 100

58 49.6 24.3 72.9



#60

Dibromochloromethane

Concen: 55.176 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW012074.D

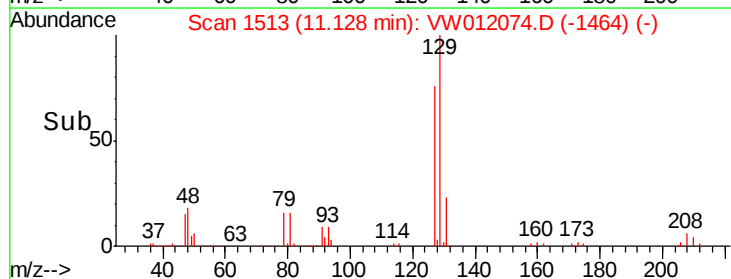
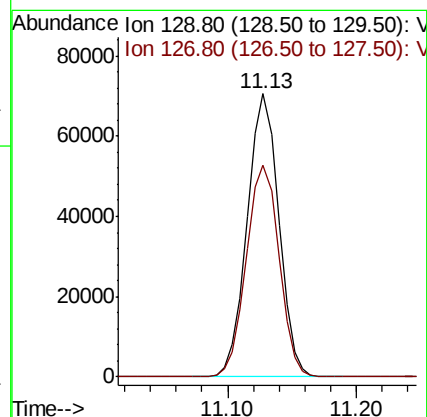
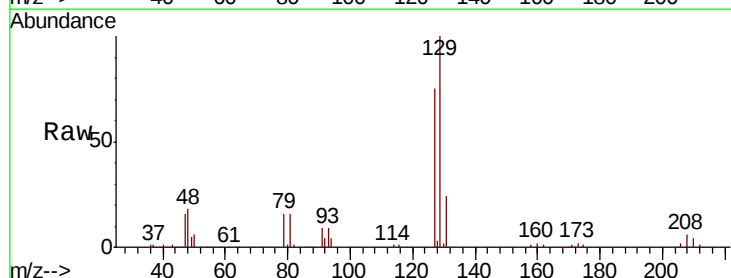
Acq: 21 Aug 2019 16:16

Tgt Ion: 129 Resp: 119750

Ion Ratio Lower Upper

129 100

127 77.6 38.9 116.7

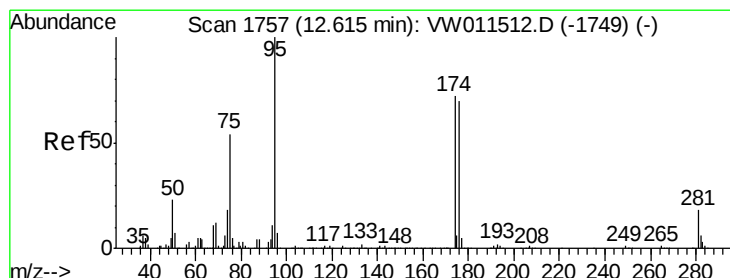
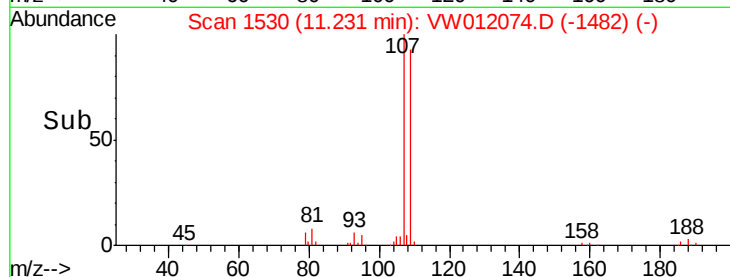
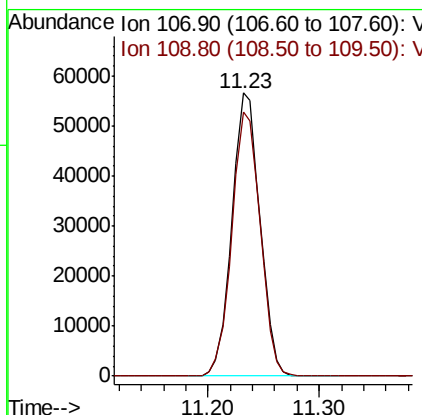
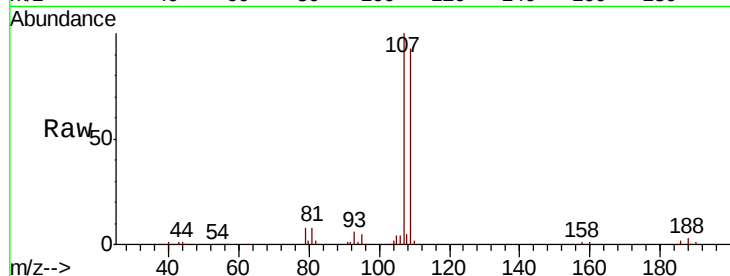




#61  
 1,2-Dibromoethane  
 Concen: 53.450 ug/l  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.01 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

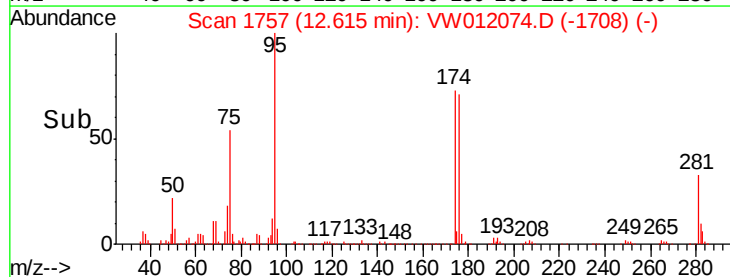
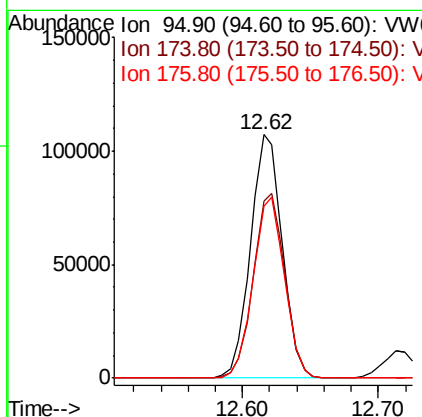
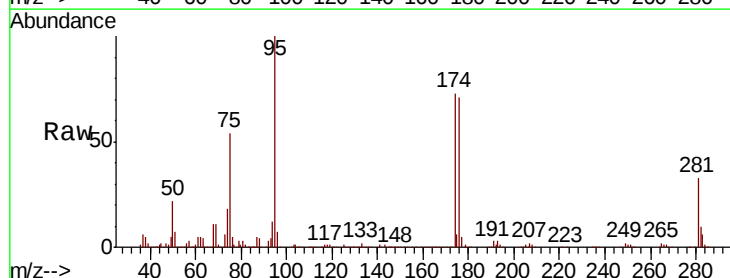
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

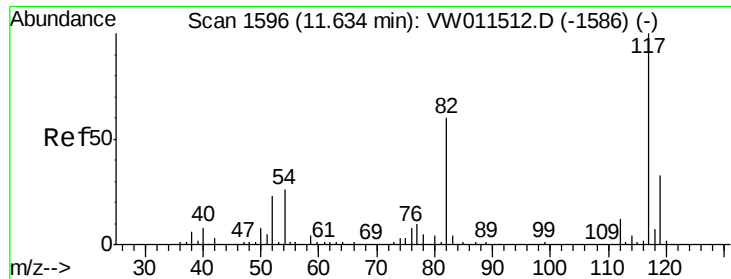
Tgt Ion: 107 Resp: 98899  
 Ion Ratio Lower Upper  
 107 100  
 109 94.4 75.0 112.6



#62  
 4-Bromofluorobenzene  
 Concen: 55.297 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 95 Resp: 175438  
 Ion Ratio Lower Upper  
 95 100  
 174 75.7 0.0 150.2  
 176 73.7 0.0 144.4

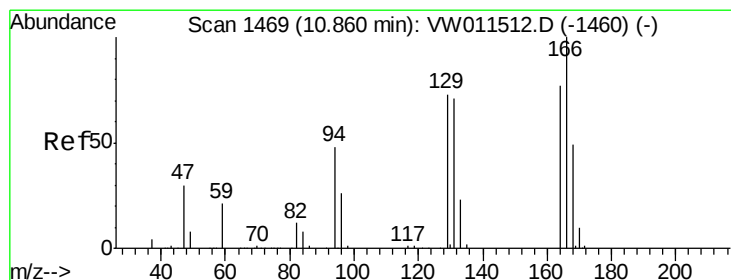
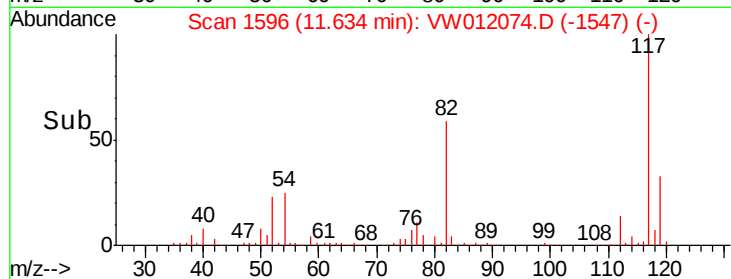
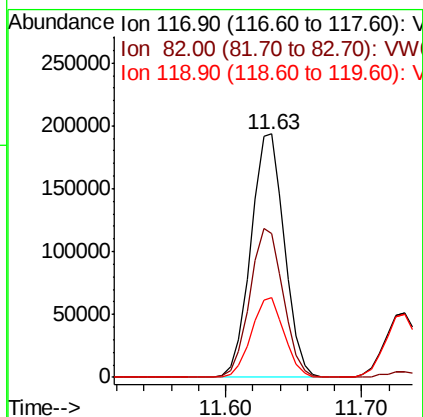
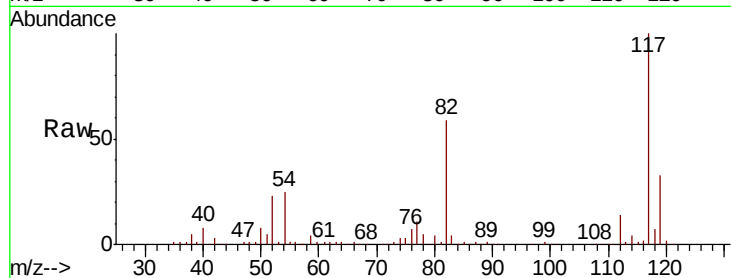




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

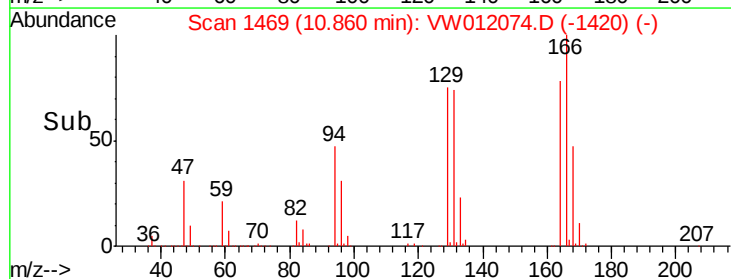
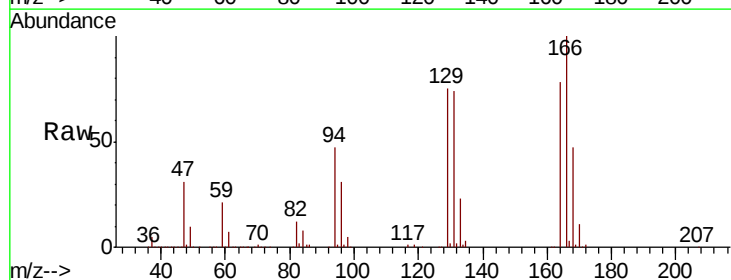
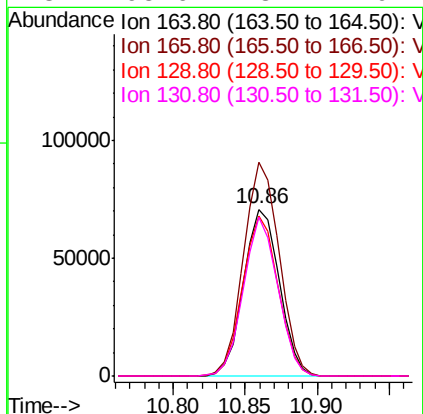
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion:117 Resp: 334543  
Ion Ratio Lower Upper  
117 100  
82 58.9 47.9 71.9  
119 32.8 26.2 39.2



#64  
Tetrachloroethene  
Concen: 55.789 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion:164 Resp: 121522  
Ion Ratio Lower Upper  
164 100  
166 128.3 103.5 155.3  
129 96.3 75.2 112.8  
131 95.6 73.4 110.2

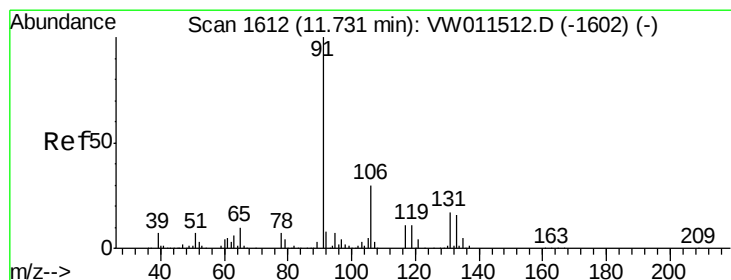
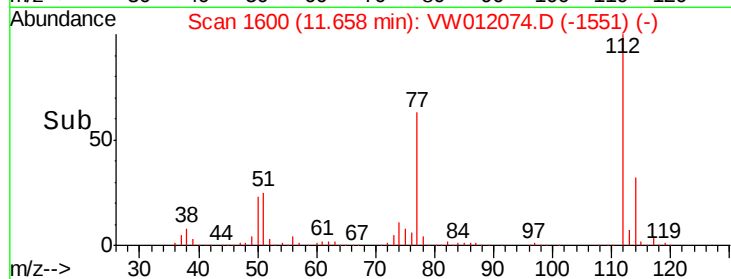
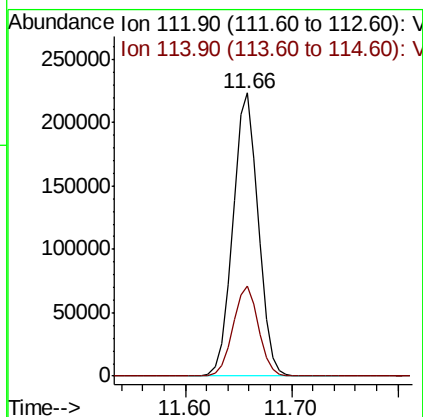
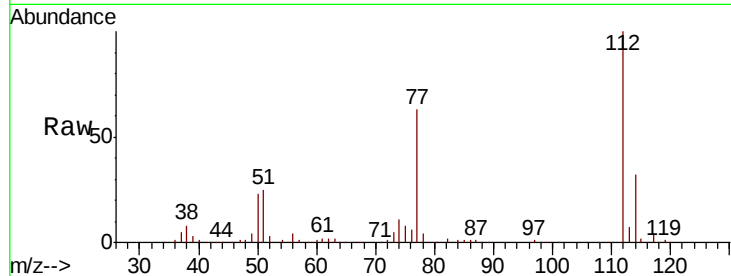




#65  
Chlorobenzene  
Concen: 55.397 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

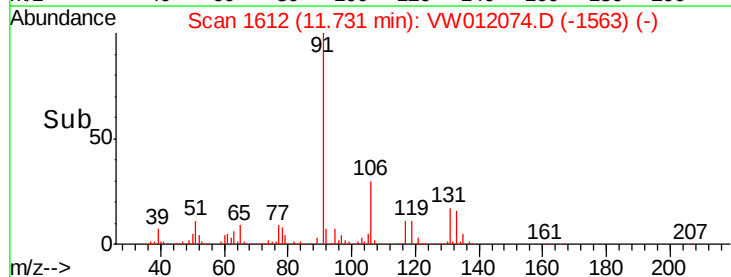
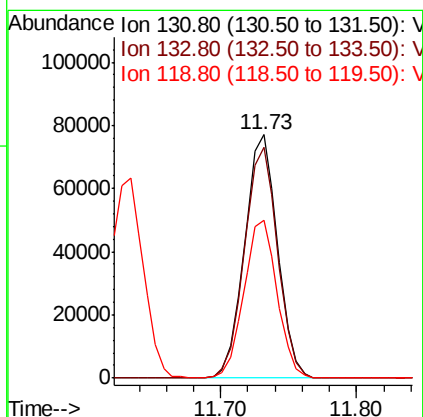
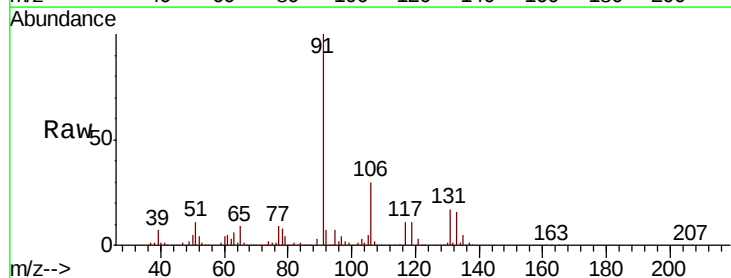
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion:112 Resp: 372592  
Ion Ratio Lower Upper  
112 100  
114 31.8 25.6 38.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 55.785 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion:131 Resp: 130691  
Ion Ratio Lower Upper  
131 100  
133 95.5 47.4 142.2  
119 65.3 32.3 96.9

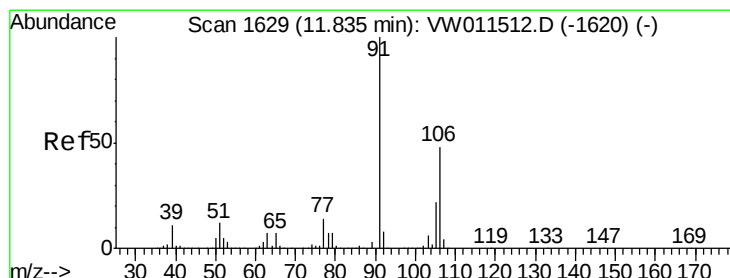
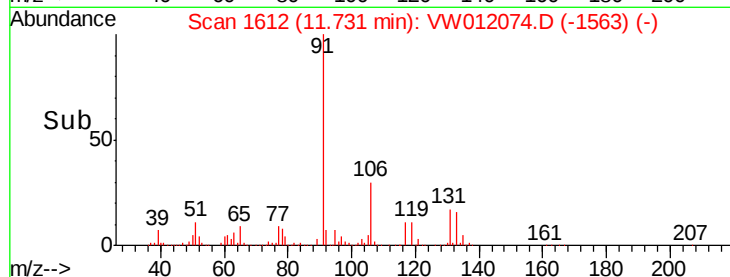
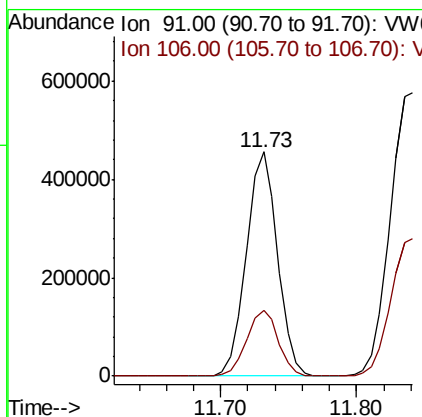
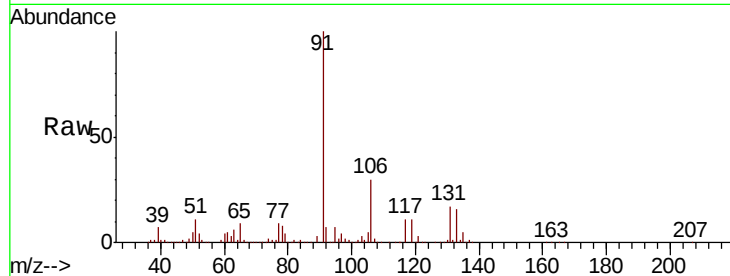




#67  
Ethyl Benzene  
Concen: 57.040 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

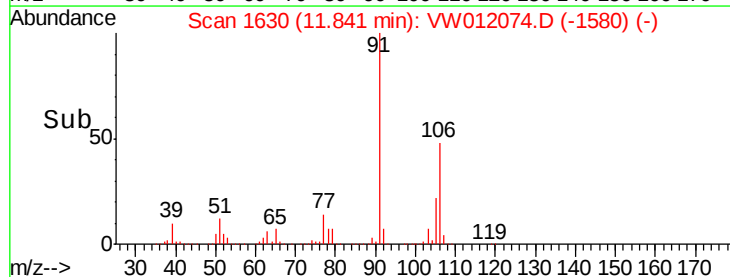
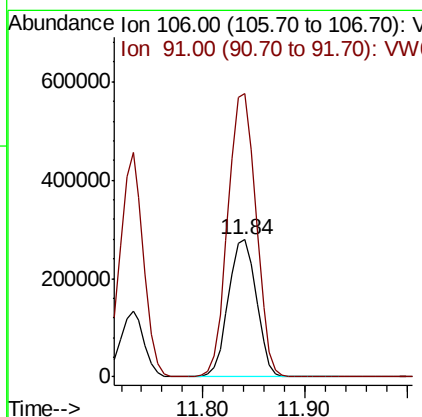
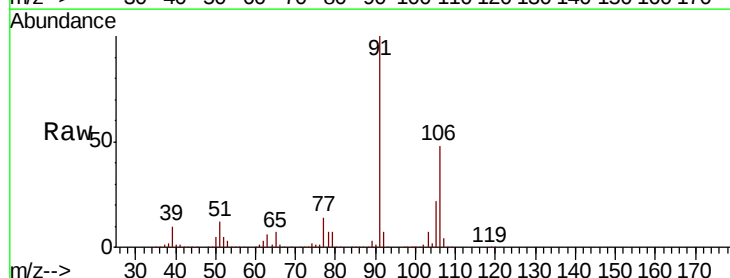
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

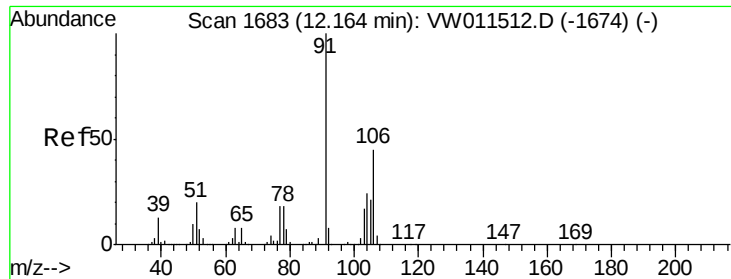
Tgt Ion: 91 Resp: 730663  
Ion Ratio Lower Upper  
91 100  
106 29.5 23.8 35.6



#68  
m/p-Xylenes  
Concen: 114.039 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion: 106 Resp: 531251  
Ion Ratio Lower Upper  
106 100  
91 207.6 168.2 252.2

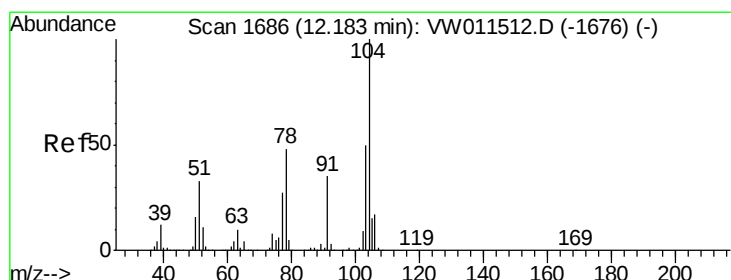
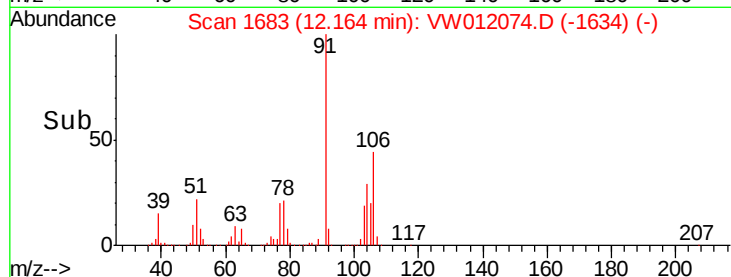
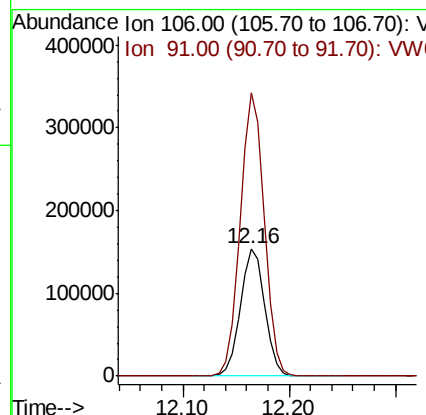
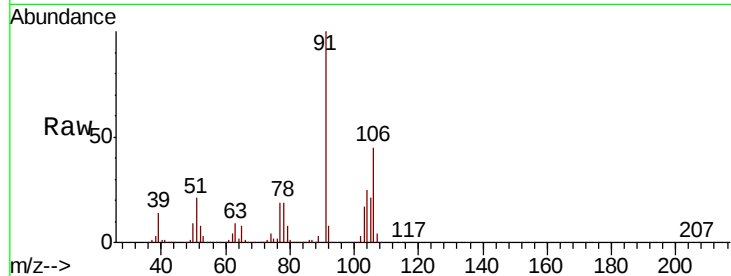




#69  
o-Xylene  
Concen: 56.970 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

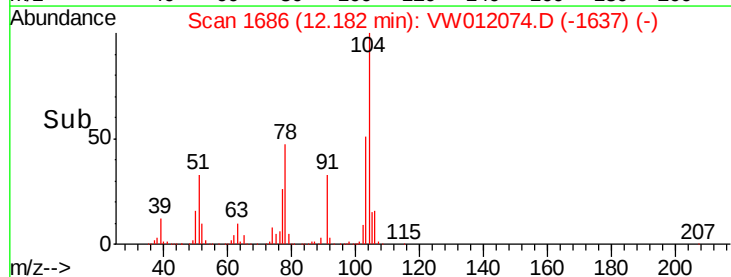
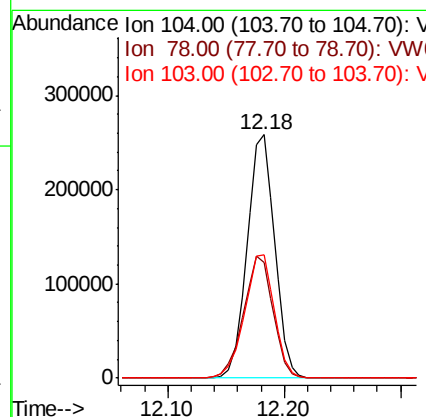
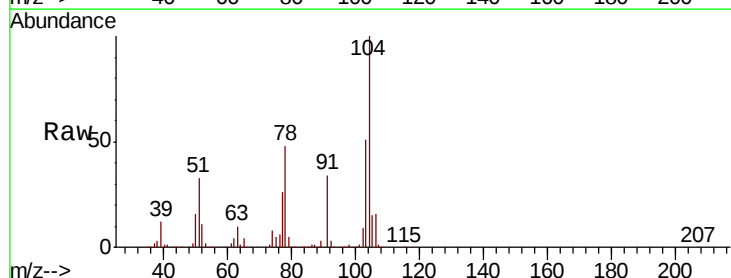
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion:106 Resp: 246621  
Ion Ratio Lower Upper  
106 100  
91 220.5 110.5 331.5



#70  
Styrene  
Concen: 57.053 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion:104 Resp: 427035  
Ion Ratio Lower Upper  
104 100  
78 53.8 43.4 65.0  
103 54.6 43.9 65.9

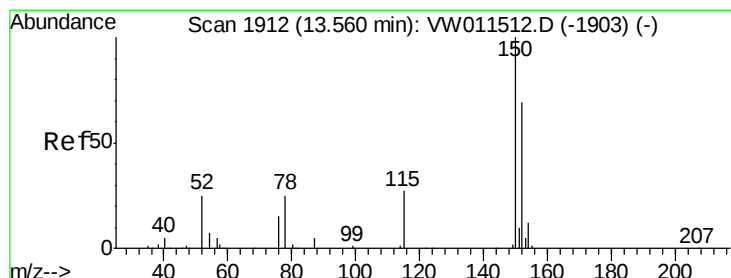
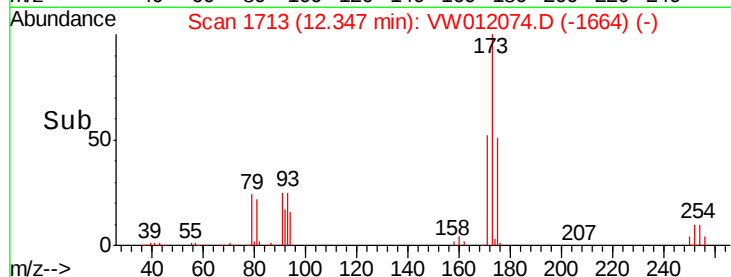
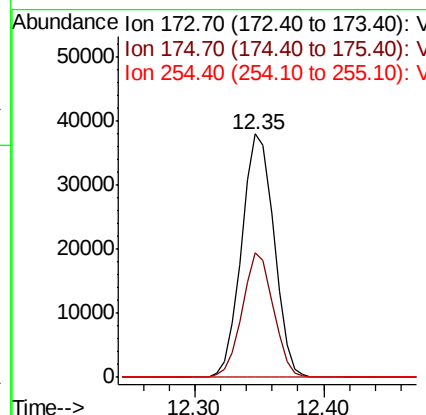
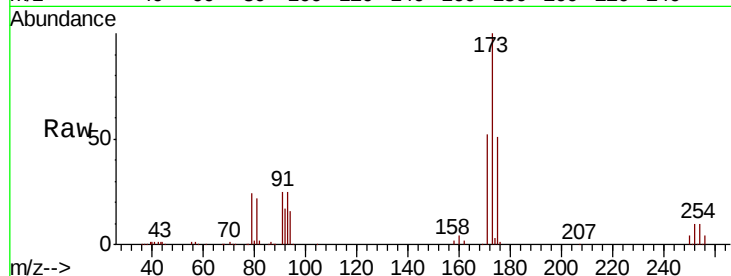




#71  
Bromoform  
Concen: 55.299 ug/l  
RT: 12.35 min Scan# 1713  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

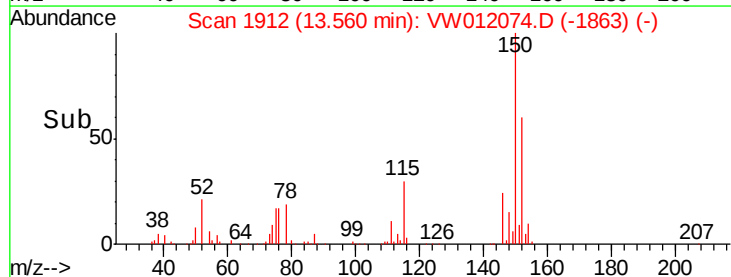
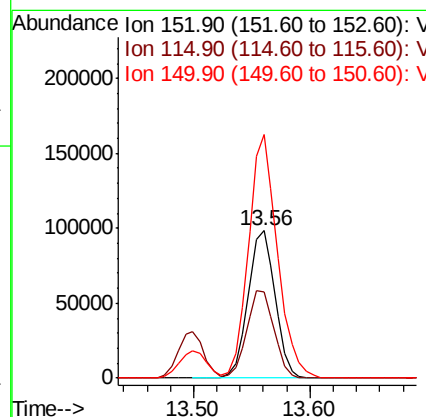
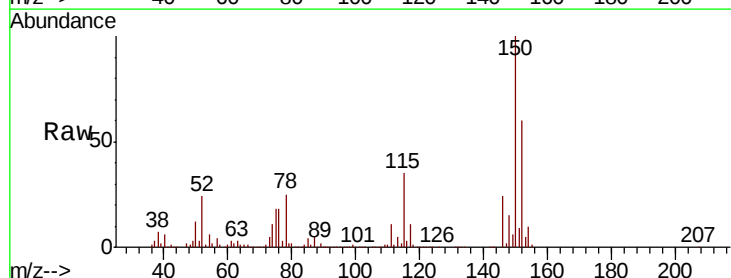
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

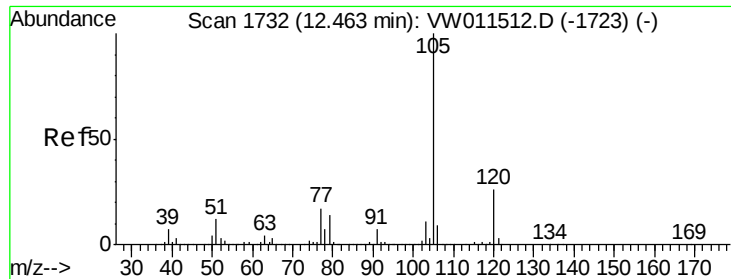
Tgt Ion:173 Resp: 66055  
Ion Ratio Lower Upper  
173 100  
175 49.3 23.6 71.0  
254 0.2 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion:152 Resp: 159565  
Ion Ratio Lower Upper  
152 100  
115 59.6 30.5 91.5  
150 175.6 0.0 352.6





#73

Isopropylbenzene

Concen: 57.831 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

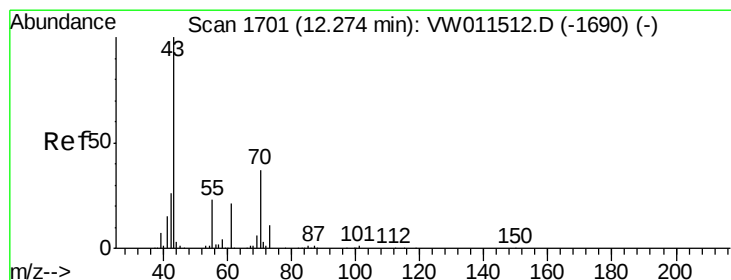
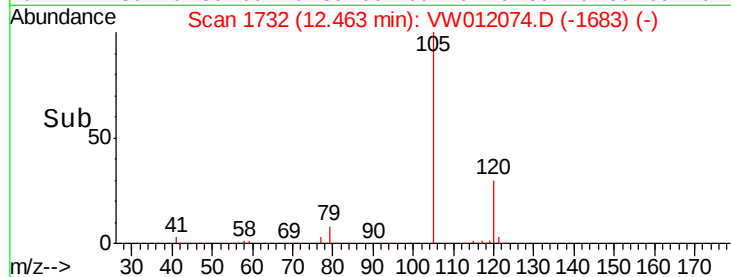
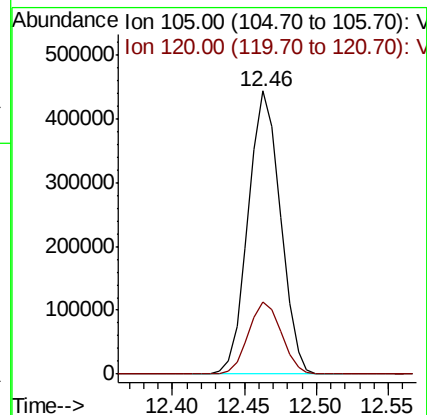
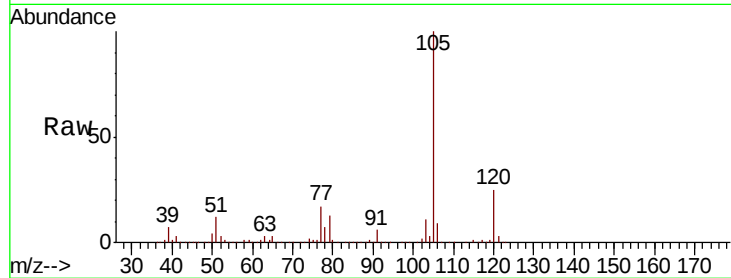
VSTDCCC050

Tgt Ion: 105 Resp: 688418

Ion Ratio Lower Upper

105 100

120 25.8 12.9 38.7



#74

N-ethyl acetate

Concen: 57.207 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Tgt Ion: 43 Resp: 213201

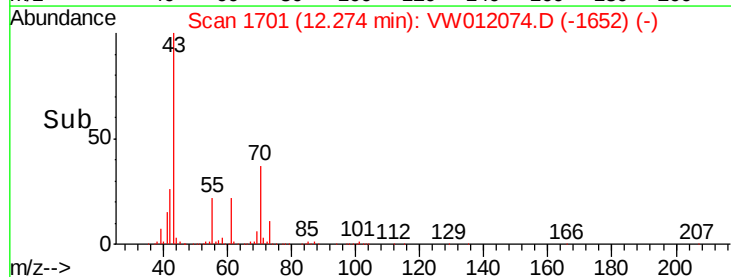
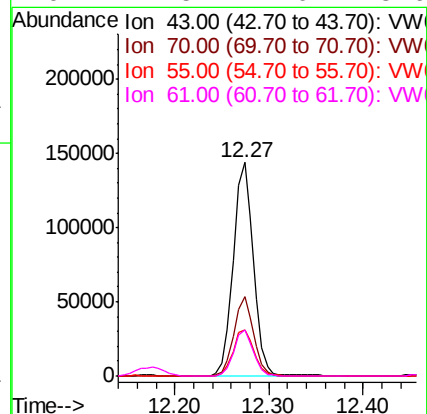
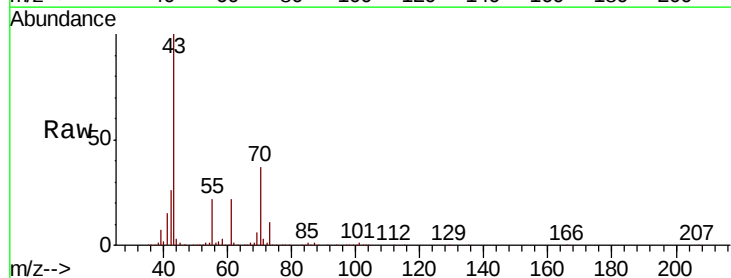
Ion Ratio Lower Upper

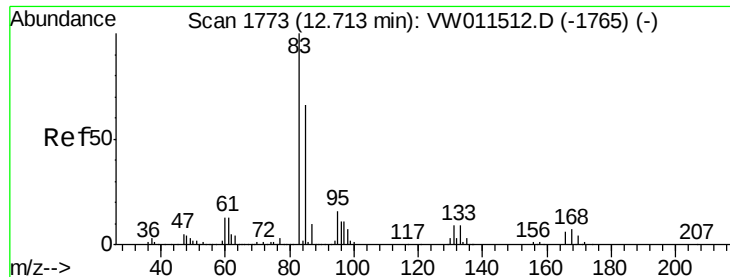
43 100

70 36.1 28.6 43.0

55 22.5 17.8 26.8

61 21.5 17.0 25.6





#75

1,1,2,2-Tetrachloroethane

Concen: 55.631 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

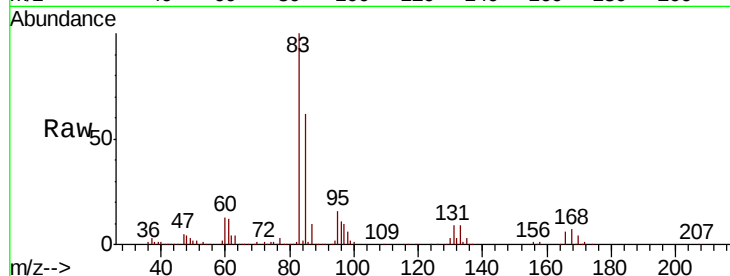
Tgt Ion: 83 Resp: 124565

Ion Ratio Lower Upper

83 100

131 10.1 4.9 14.6

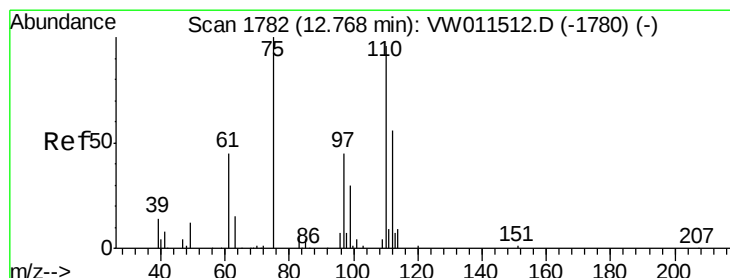
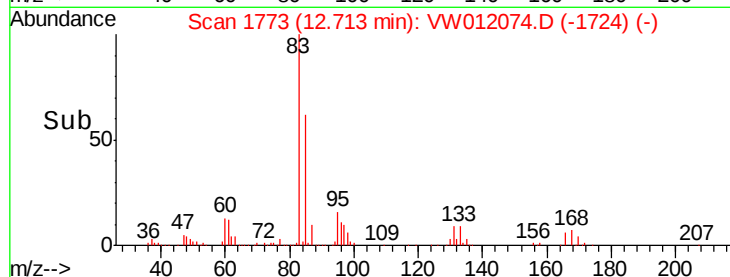
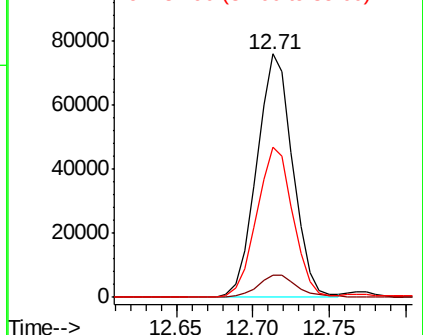
85 62.3 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 98.205 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW012074.D

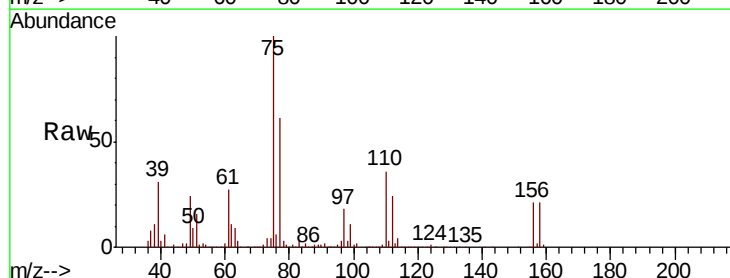
Acq: 21 Aug 2019 16:16

Tgt Ion: 75 Resp: 165808

Ion Ratio Lower Upper

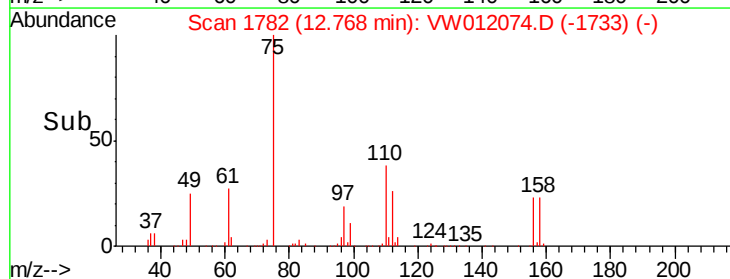
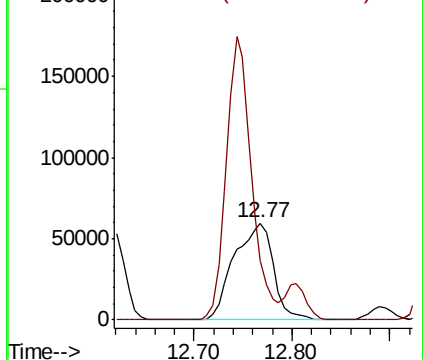
75 100

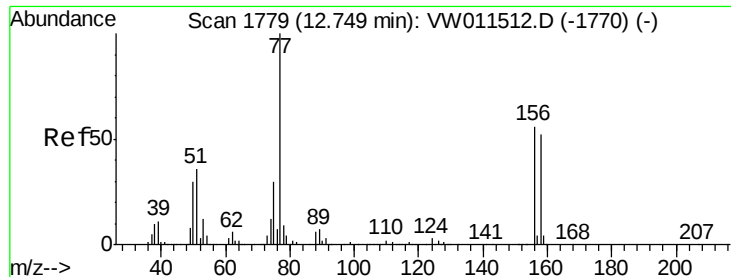
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 55.619 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

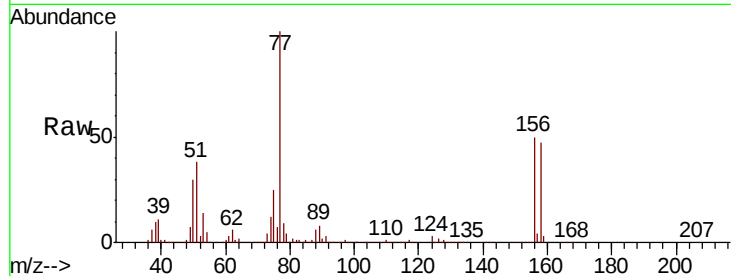
Tgt Ion:156 Resp: 146342

Ion Ratio Lower Upper

156 100

77 214.4 106.5 319.4

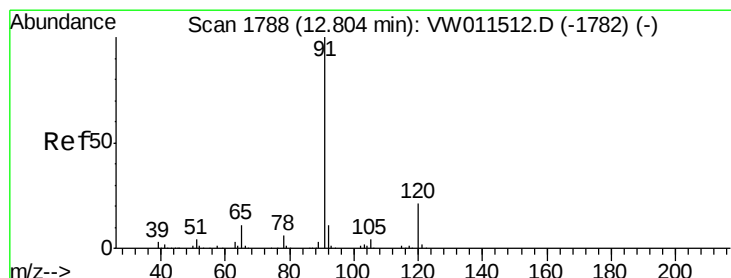
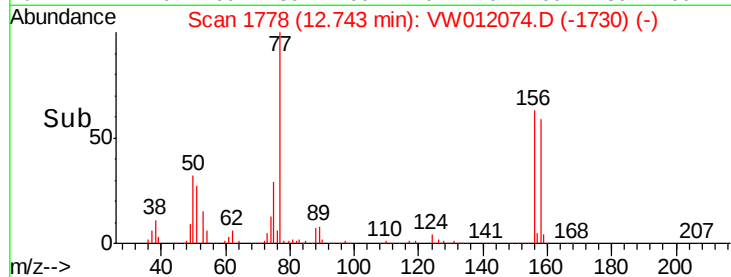
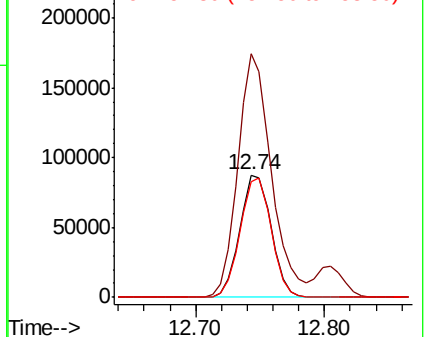
158 97.6 48.0 144.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 58.329 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW012074.D

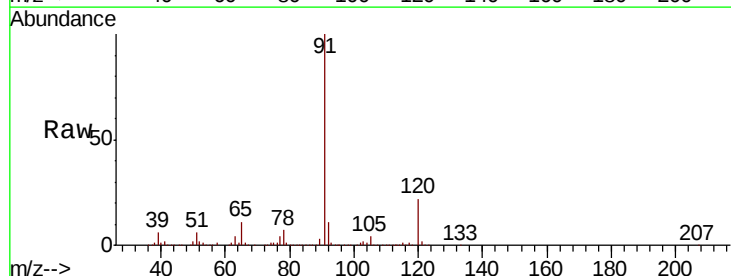
Acq: 21 Aug 2019 16:16

Tgt Ion: 91 Resp: 845021

Ion Ratio Lower Upper

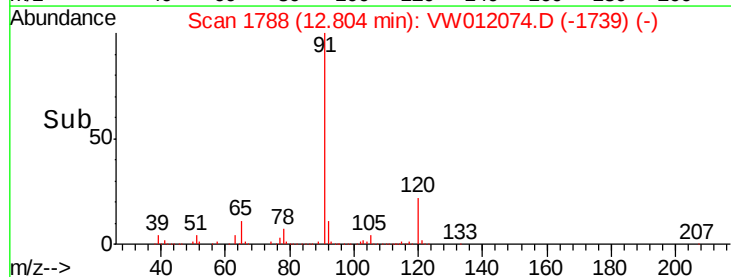
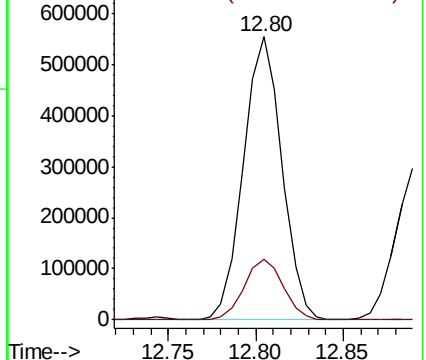
91 100

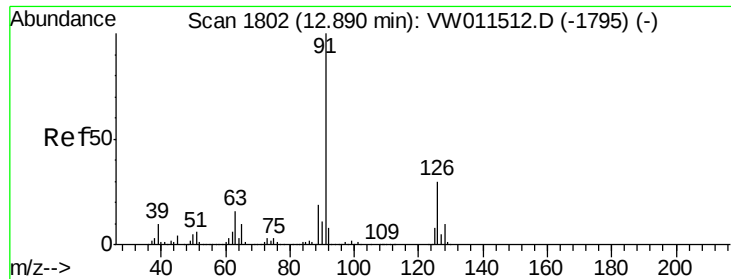
120 21.7 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 56.529 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

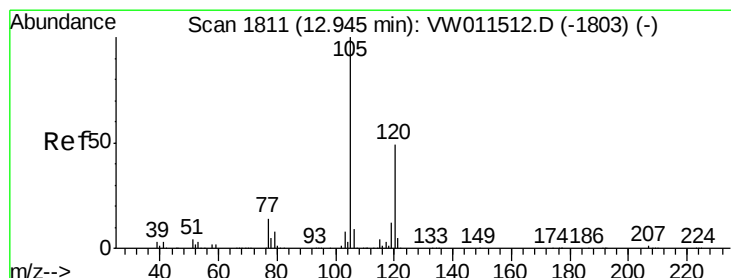
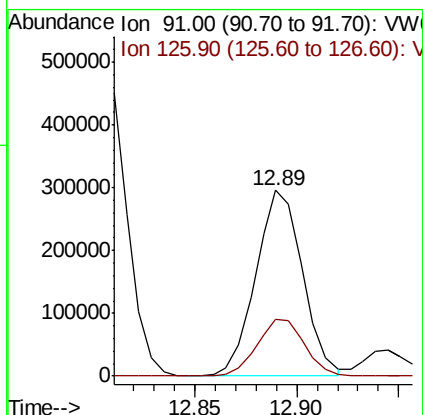
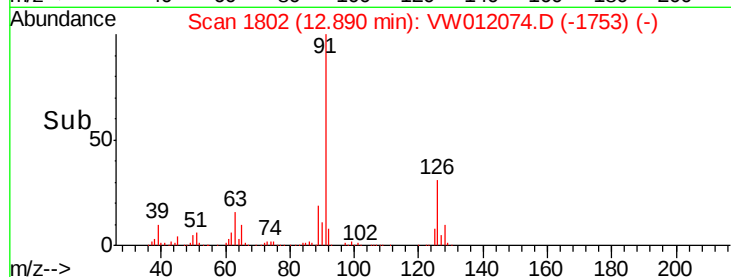
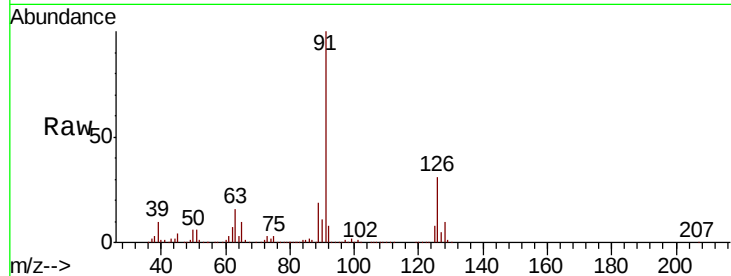
VSTDCCC050

Tgt Ion: 91 Resp: 471798

Ion Ratio Lower Upper

91 100

126 31.2 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 57.919 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW012074.D

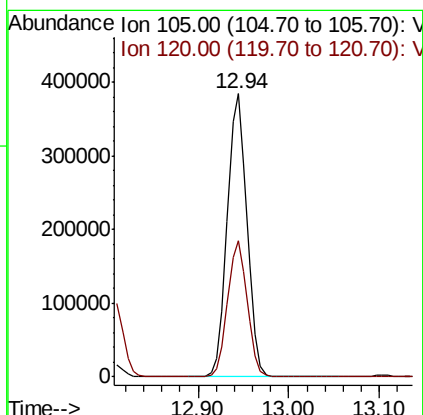
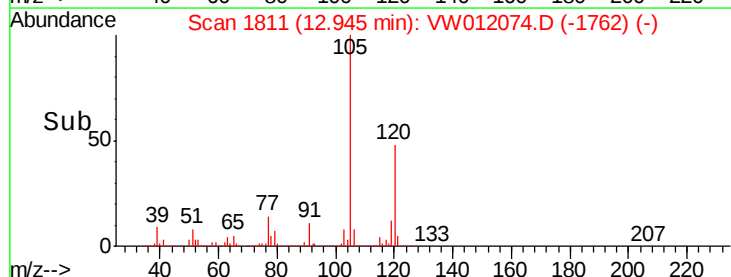
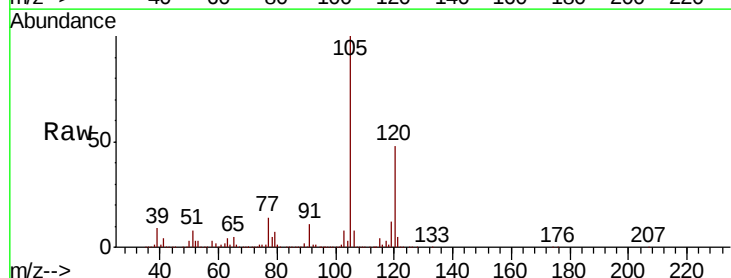
Acq: 21 Aug 2019 16:16

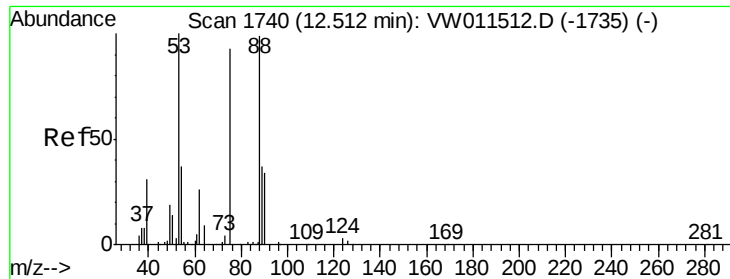
Tgt Ion: 105 Resp: 577941

Ion Ratio Lower Upper

105 100

120 48.0 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 57.610 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

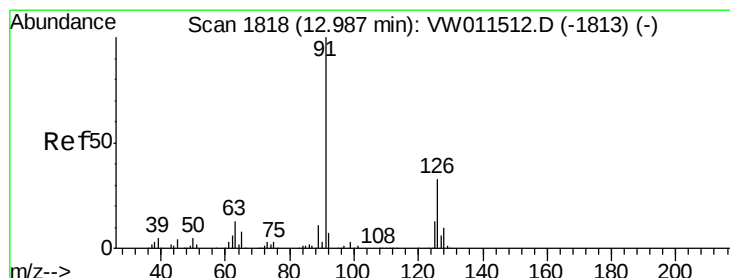
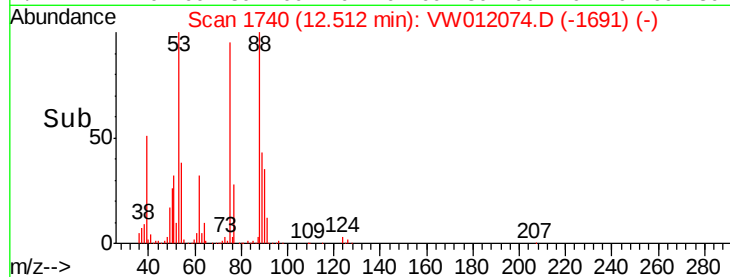
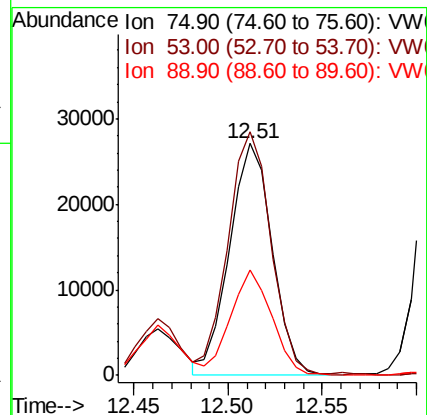
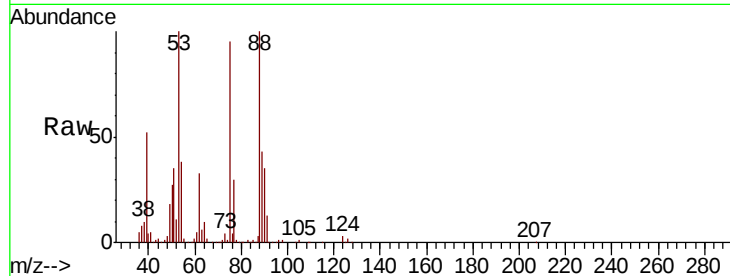
Tgt Ion: 75 Resp: 42205

Ion Ratio Lower Upper

75 100

53 107.7 88.0 132.0

89 43.7 35.3 52.9



#82

4-Chlorotoluene

Concen: 56.468 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW012074.D

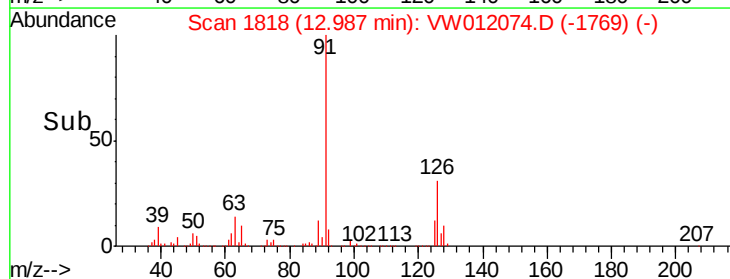
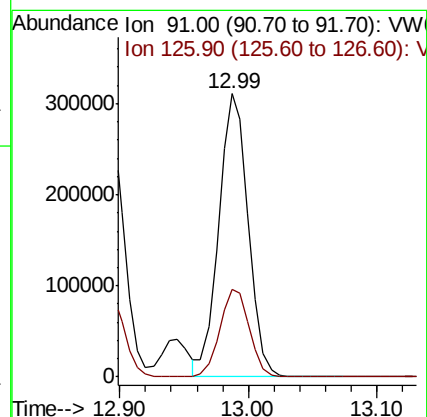
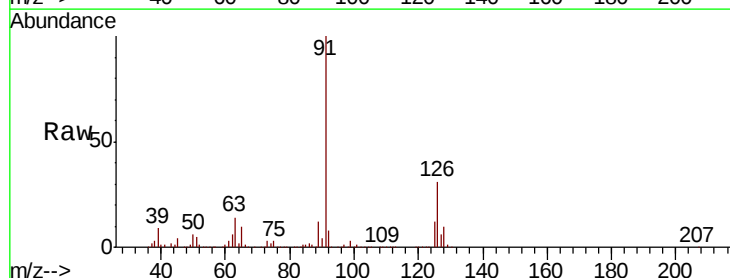
Acq: 21 Aug 2019 16:16

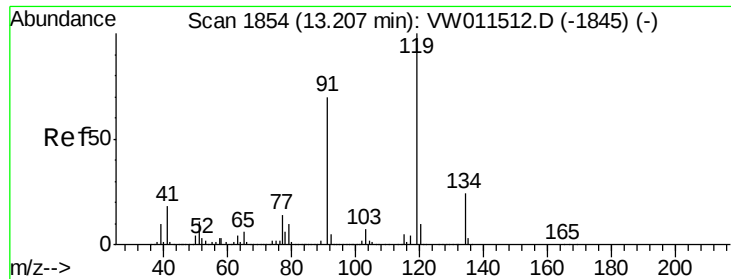
Tgt Ion: 91 Resp: 494479

Ion Ratio Lower Upper

91 100

126 31.2 15.6 46.8

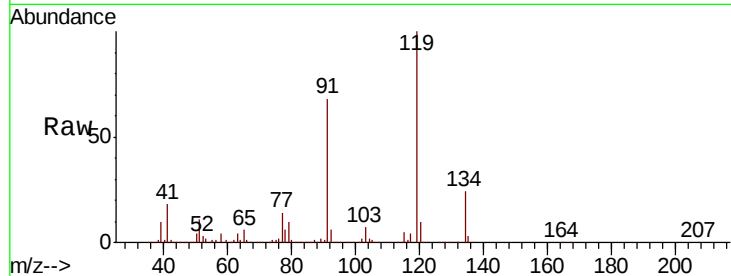




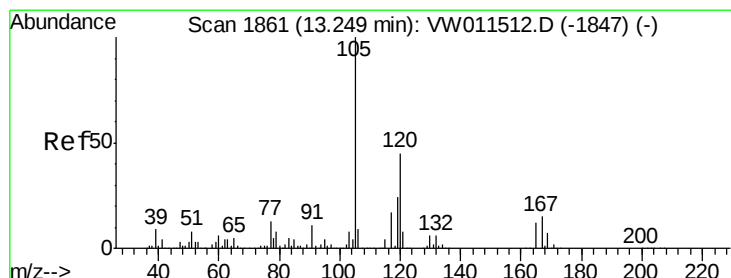
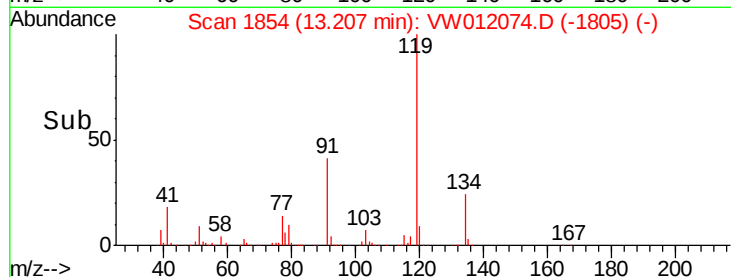
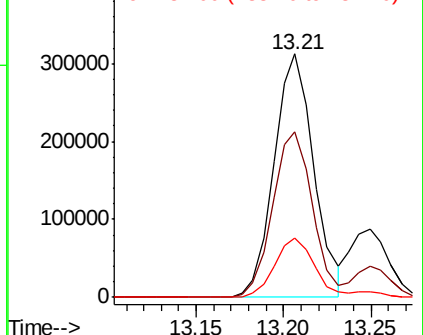
#83  
 tert-Butylbenzene  
 Concen: 59.505 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Tgt Ion:119 Resp: 496539  
 Ion Ratio Lower Upper  
 119 100  
 91 67.9 34.5 103.6  
 134 24.6 12.4 37.4

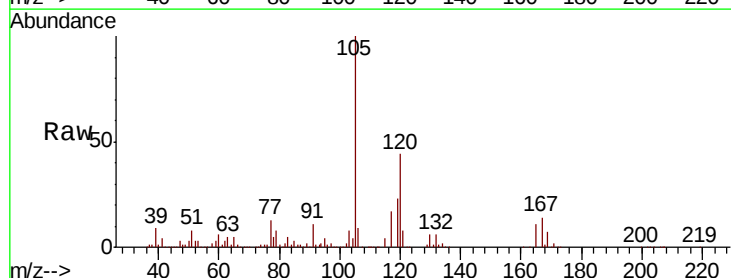


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 91.00 (90.70 to 91.70): V  
 Ion 134.00 (133.70 to 134.70): V

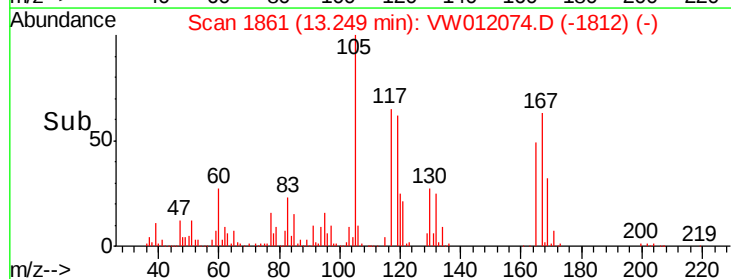
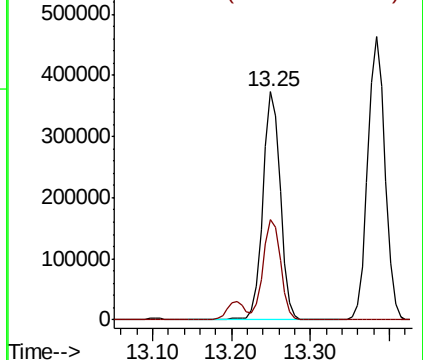


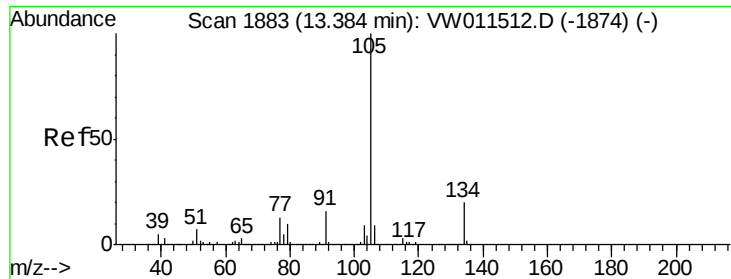
#84  
 1,2,4-Trimethylbenzene  
 Concen: 56.962 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion:105 Resp: 572571  
 Ion Ratio Lower Upper  
 105 100  
 120 44.3 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 120.00 (119.70 to 120.70): V

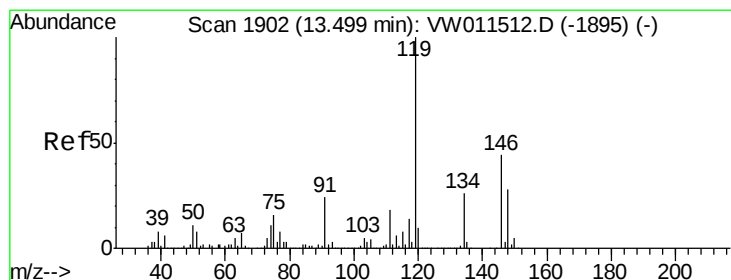
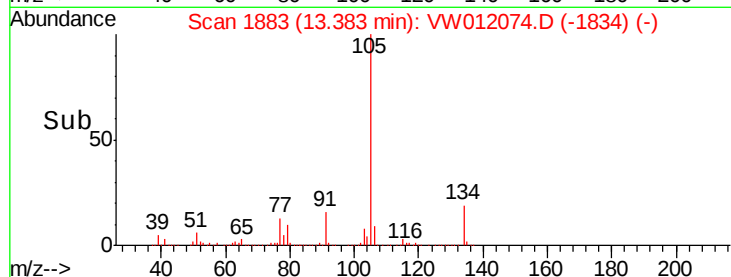
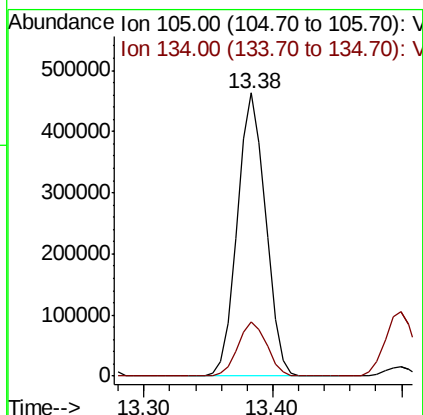
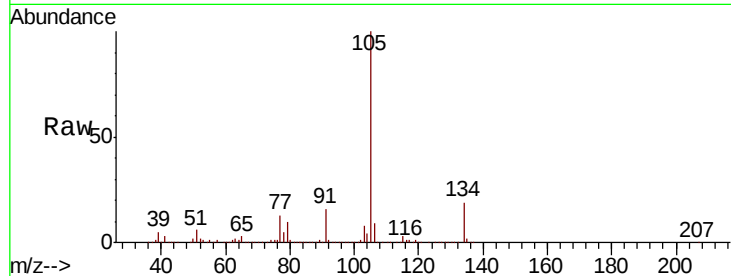




#85  
 sec-Butylbenzene  
 Concen: 59.331 ug/l  
 RT: 13.38 min Scan# 1883  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

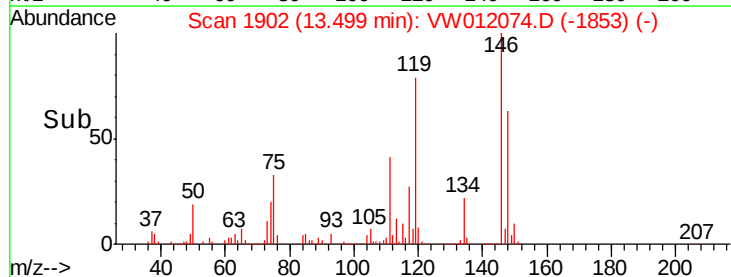
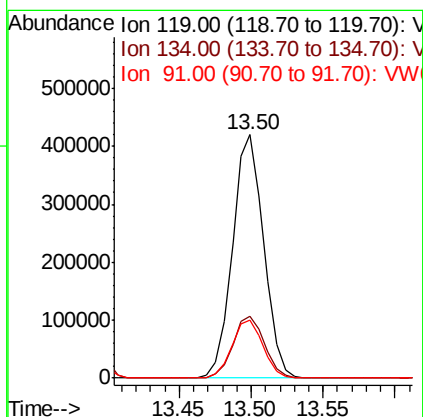
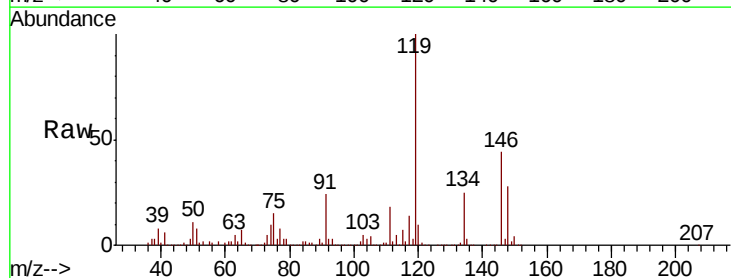
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

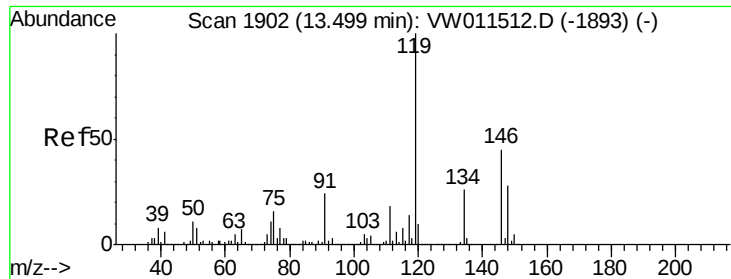
Tgt Ion:105 Resp: 706417  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 9.7 29.1



#86  
 p-Isopropyltoluene  
 Concen: 58.366 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion:119 Resp: 630521  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 12.8 38.4  
 91 24.0 12.1 36.3

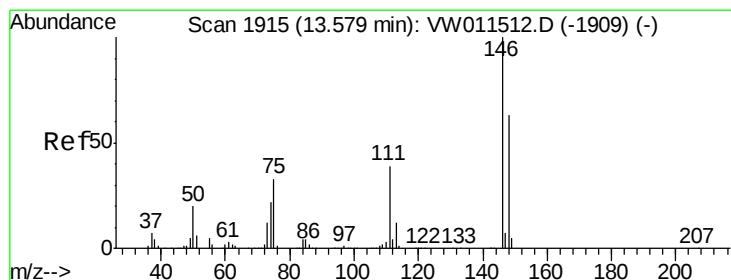
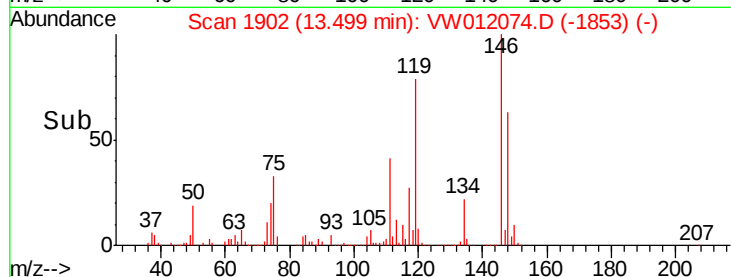
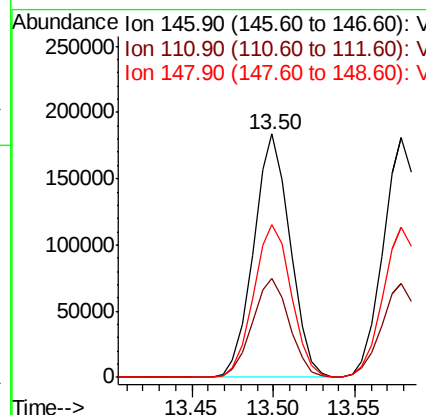
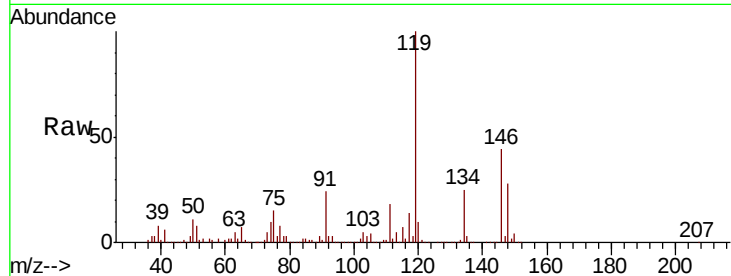




#87  
 1,3-Dichlorobenzene  
 Concen: 55.569 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

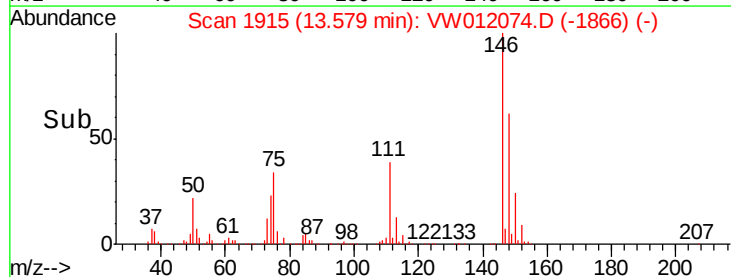
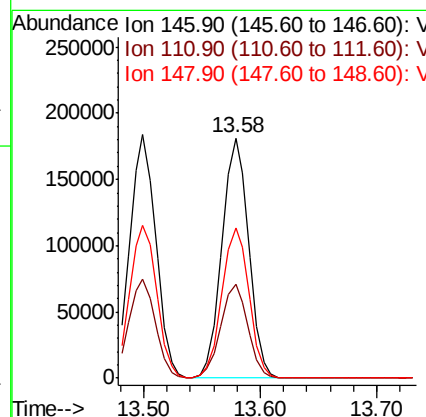
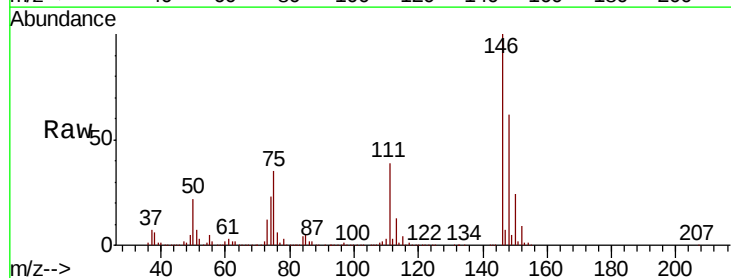
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

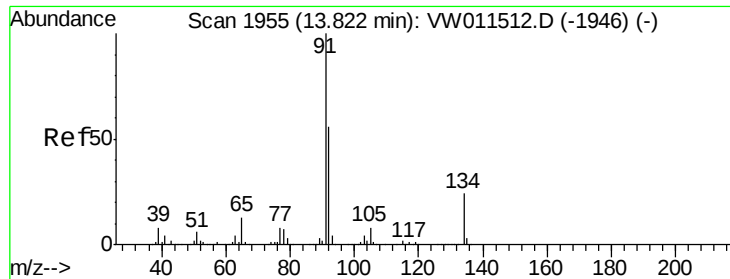
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.2  | 20.5  | 61.6  |
| 148     | 64.4  | 31.8  | 95.3  |



#88  
 1,4-Dichlorobenzene  
 Concen: 55.734 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.7  | 20.1  | 60.2  |
| 148     | 63.6  | 31.9  | 95.9  |





#89

n-Butylbenzene

Concen: 59.113 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW012074.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

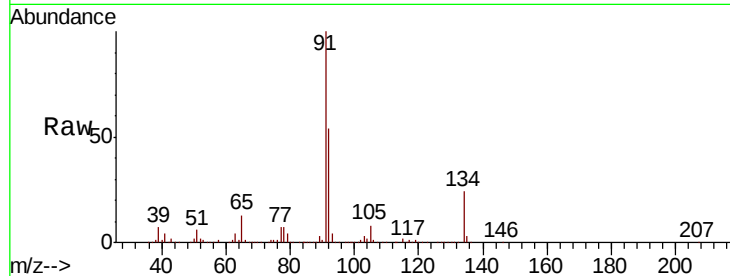
Tgt Ion: 91 Resp: 637274

Ion Ratio Lower Upper

91 100

92 54.6 27.5 82.4

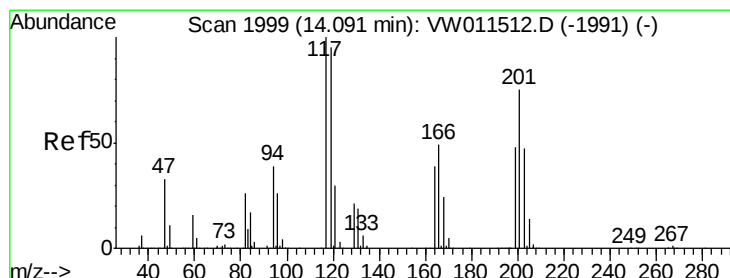
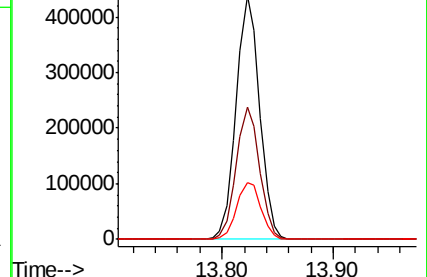
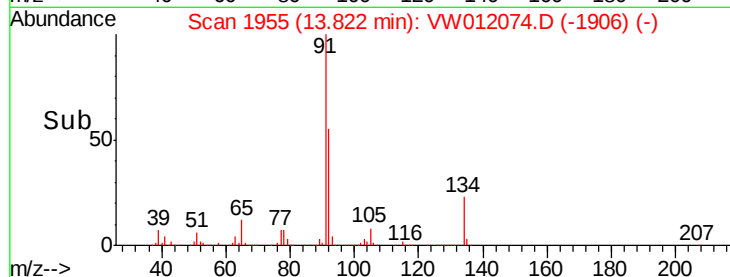
134 24.4 12.2 36.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 57.838 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VW012074.D

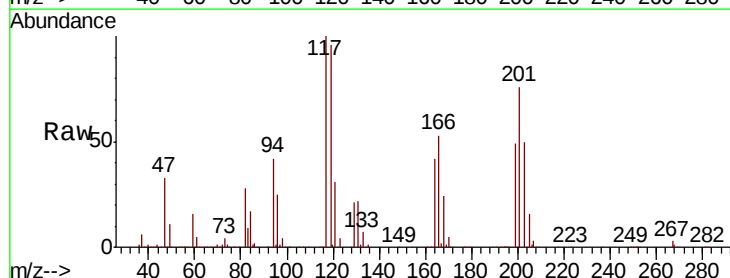
Acq: 21 Aug 2019 16:16

Tgt Ion: 117 Resp: 110485

Ion Ratio Lower Upper

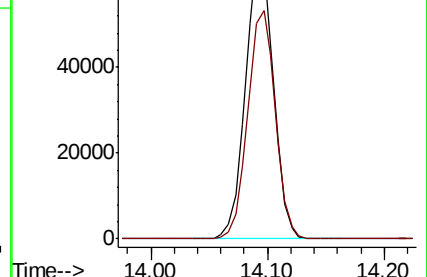
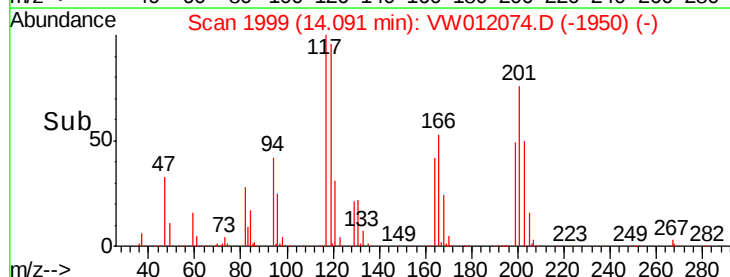
117 100

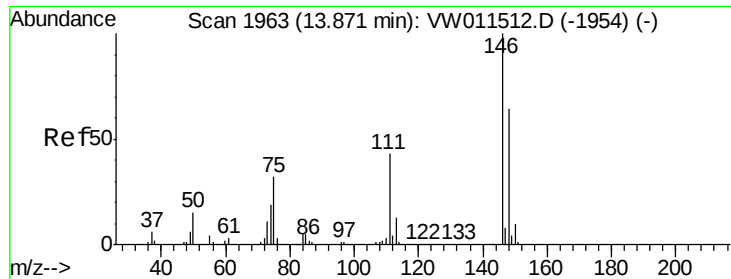
201 79.8 39.4 118.2



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

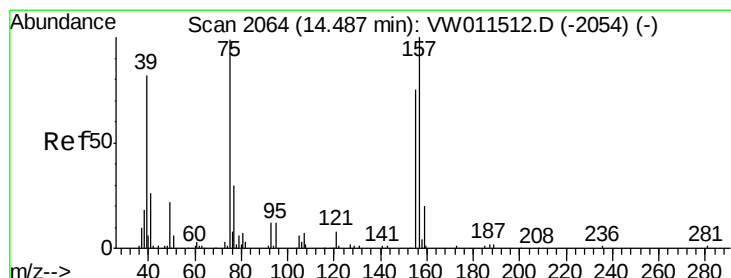
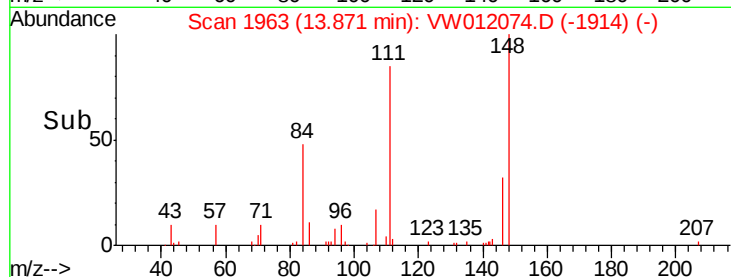
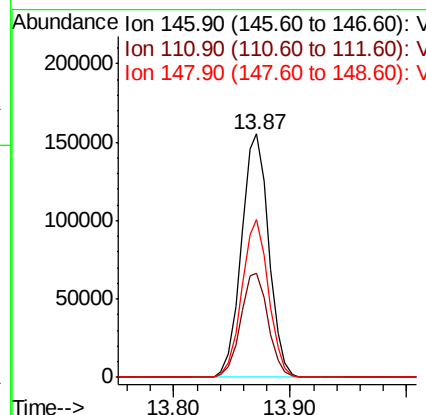
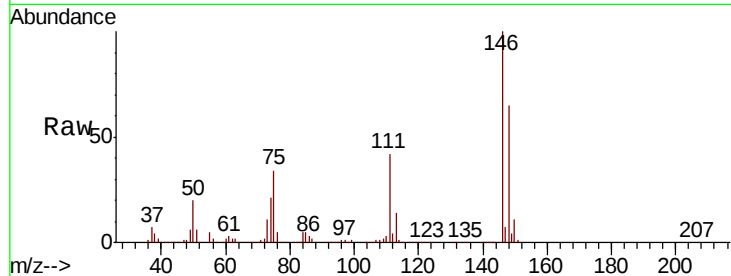




#91  
 1,2-Dichlorobenzene  
 Concen: 55.643 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

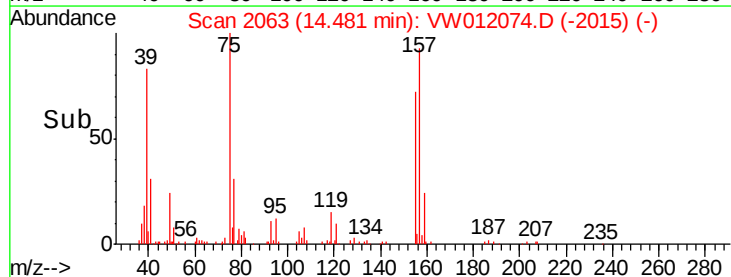
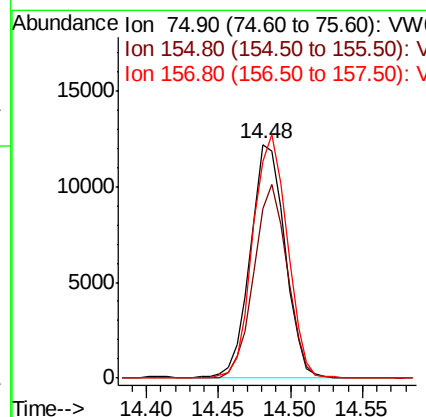
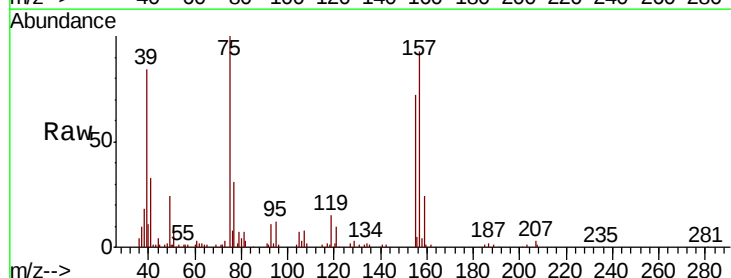
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

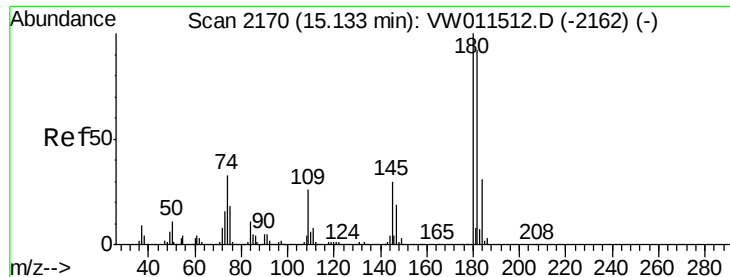
Tgt Ion: 146 Resp: 253896  
 Ion Ratio Lower Upper  
 146 100  
 111 42.9 21.6 65.0  
 148 63.5 32.0 96.2



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 53.228 ug/l  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.01 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Tgt Ion: 75 Resp: 20324  
 Ion Ratio Lower Upper  
 75 100  
 155 79.5 38.2 114.6  
 157 102.9 48.9 146.7

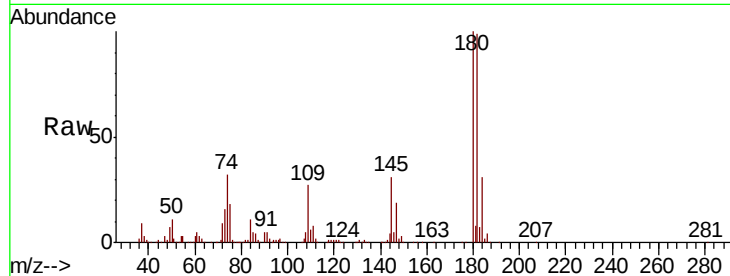




#93  
 1,2,4-Trichlorobenzene  
 Concen: 56.795 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.9  | 47.4  | 142.2 |
| 145     | 30.5  | 15.4  | 46.1  |

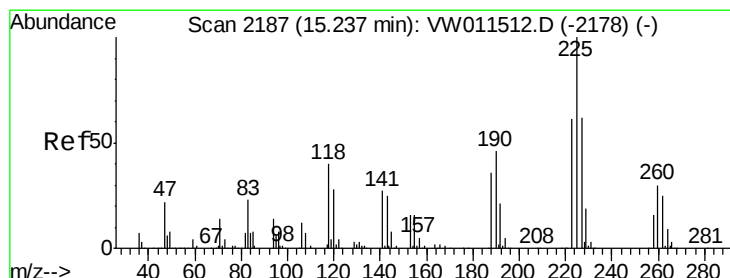
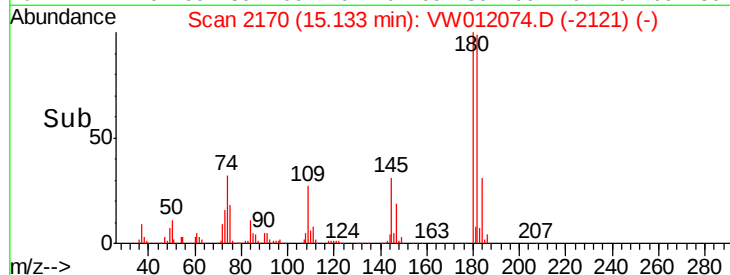
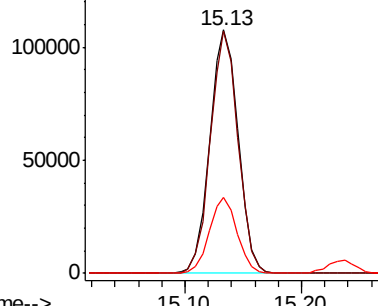


Abundance

Ion 179.80 (179.50 to 180.50): V

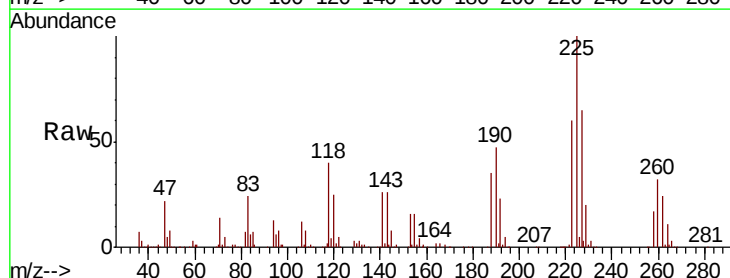
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94  
 Hexachlorobutadiene  
 Concen: 59.253 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW012074.D  
 Acq: 21 Aug 2019 16:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.9  | 30.8  | 92.3  |
| 227     | 63.5  | 31.6  | 94.7  |

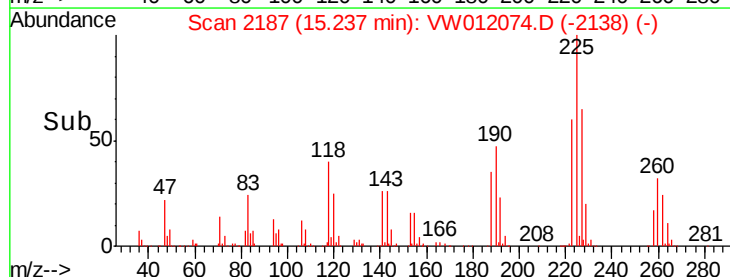
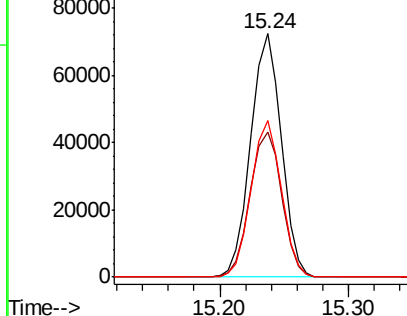


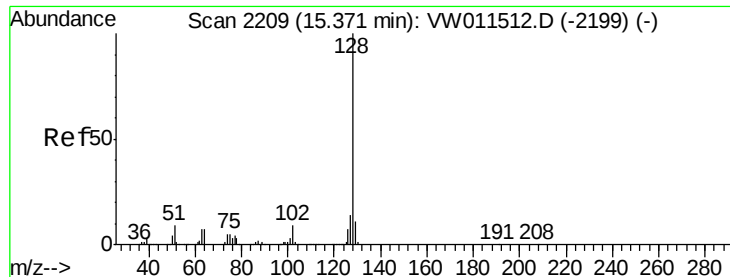
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

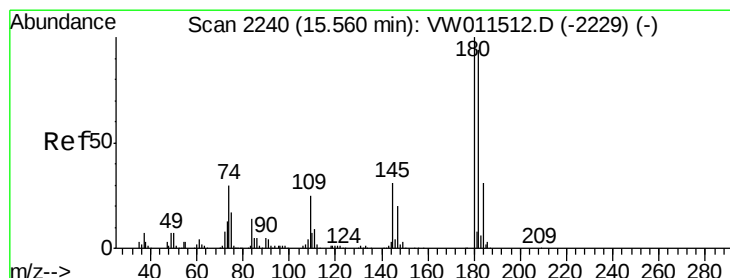
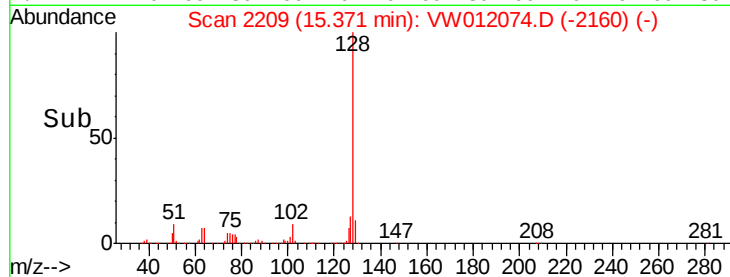
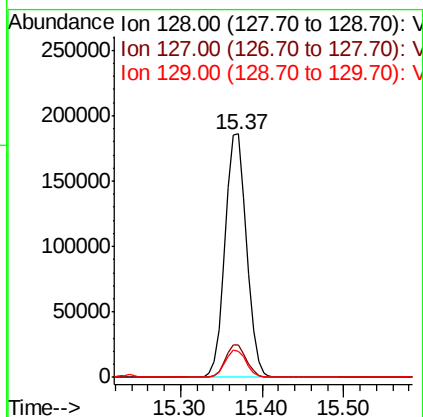
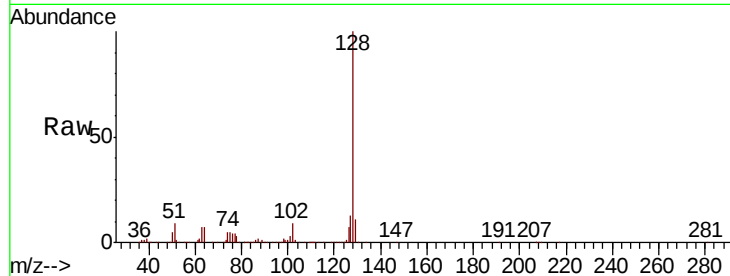




#95  
Naphthalene  
Concen: 53.248 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tgt Ion:128 Resp: 336308  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 16.0  
129 11.0 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 57.150 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.01 min  
Lab File: VW012074.D  
Acq: 21 Aug 2019 16:16

Tgt Ion:180 Resp: 161098  
Ion Ratio Lower Upper  
180 100  
182 95.5 47.4 142.2  
145 31.5 15.9 47.7

