

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042020\  
 Data File : VW015219.D  
 Acq On : 20 Apr 2020 13:19  
 Operator : SY/VA  
 Sample : VSTDICCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Quant Time: Apr 20 13:47:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W042020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 20 13:45:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 232721   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 329065   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 309764   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 173073   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 94547    | 42.97 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 85.94%  |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 92860    | 51.03 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.06% |      |
| 50) Toluene-d8              | 10.32  | 98  | 392752   | 53.13 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.26% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 151198   | 58.40 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 116.80% |      |

| Target Compounds              |      |     |        |         | Qvalue    |
|-------------------------------|------|-----|--------|---------|-----------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 89903  | 60.670  | ug/l 96   |
| 3) Chloromethane              | 2.21 | 50  | 97394  | 47.425  | ug/l 99   |
| 4) Vinyl Chloride             | 2.36 | 62  | 115632 | 47.815  | ug/l 98   |
| 5) Bromomethane               | 2.77 | 94  | 80742  | 63.421  | ug/l 91   |
| 6) Chloroethane               | 2.92 | 64  | 69149  | 57.967  | ug/l 99   |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 156036 | 100.693 | ug/l 98   |
| 8) Diethyl Ether              | 3.69 | 74  | 43973  | 36.809  | ug/l 88   |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 94540  | 40.146  | ug/l 93   |
| 10) Methyl Iodide             | 4.28 | 142 | 114002 | 32.418  | ug/l 99   |
| 11) Tert butyl alcohol        | 5.17 | 59  | 31780  | 194.543 | ug/l 99   |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 91210  | 37.607  | ug/l 97   |
| 13) Acrolein                  | 3.90 | 56  | 17910  | 105.458 | ug/l 100  |
| 14) Allyl chloride            | 4.68 | 41  | 123848 | 34.519  | ug/l 88   |
| 15) Acrylonitrile             | 5.37 | 53  | 83153  | 165.851 | ug/l 99   |
| 16) Acetone                   | 4.13 | 43  | 78758  | 200.943 | ug/l 96   |
| 17) Carbon Disulfide          | 4.39 | 76  | 283899 | 38.459  | ug/l 98   |
| 18) Methyl Acetate            | 4.68 | 43  | 38876  | 32.436  | ug/l 96   |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 214142 | 67.418  | ug/l 97   |
| 20) Methylene Chloride        | 4.92 | 84  | 100331 | 36.964  | ug/l 92   |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 105675 | 41.296  | ug/l 96   |
| 22) Diisopropyl ether         | 6.32 | 45  | 239602 | 33.113  | ug/l 95   |
| 23) Vinyl Acetate             | 6.26 | 43  | 700401 | 166.673 | ug/l 97   |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 165172 | 38.394  | ug/l 98   |
| 25) 2-Butanone                | 7.17 | 43  | 102315 | 163.128 | ug/l 95   |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 167605 | 58.539  | ug/l 98   |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 113651 | 41.198  | ug/l 99   |
| 28) Bromochloromethane        | 7.51 | 49  | 62716  | 34.881  | ug/l # 77 |
| 29) Tetrahydrofuran           | 7.53 | 42  | 64067  | 155.830 | ug/l 90   |
| 30) Chloroform                | 7.68 | 83  | 178381 | 42.329  | ug/l 100  |
| 31) Cyclohexane               | 7.96 | 56  | 157284 | 34.203  | ug/l 90   |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 169183 | 47.657  | ug/l 99   |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 143500 | 48.814  | ug/l 98   |
| 37) Ethyl Acetate             | 7.26 | 43  | 45575  | 37.250  | ug/l # 96 |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 154393 | 57.125  | ug/l 99   |

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 Quant Title : SW846 8260  
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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 188453   | 47.705  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 385871   | 46.226  | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.48  | 41   | 25022    | 34.564  | ug/l # | 84       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 111119   | 52.450  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 96004    | 40.153  | ug/l   | 96       |
| 44) Trichloroethene            | 9.09  | 130  | 117265   | 53.464  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 88588    | 43.135  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 50195    | 48.904  | ug/l # | 89       |
| 47) Bromodichloromethane       | 9.65  | 83   | 135998   | 51.104  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 47459    | 42.437  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 14388    | 883.579 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 225180   | 178.067 | ug/l   | 97       |
| 52) Toluene                    | 10.38 | 92   | 270422   | 50.612  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 136648   | 50.470  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 158027   | 48.380  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 70666    | 48.590  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 92434    | 46.123  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 118884   | 46.509  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 225155   | 227.002 | ug/l   | 91       |
| 59) 2-Hexanone                 | 10.97 | 43   | 162521   | 204.775 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 94660    | 54.551  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 70112    | 50.023  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 104376   | 57.364  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.65 | 112  | 292674   | 50.213  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 104769   | 52.006  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.73 | 91   | 545415   | 49.568  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 435699   | 104.341 | ug/l   | 98       |
| 69) o-Xylene                   | 12.16 | 106  | 202679   | 51.785  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 347018   | 52.484  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 58881    | 58.853  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.46 | 105  | 560448   | 43.422  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 98509    | 32.832  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 76932    | 35.574  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 106596   | 71.948  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 132918   | 49.707  | ug/l   | 84       |
| 78) n-propylbenzene            | 12.80 | 91   | 662149   | 42.539  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 375346   | 43.620  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 491914   | 45.262  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 29063    | 37.953  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 399781   | 43.975  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 424971   | 45.097  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 487462   | 45.127  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 593292   | 44.299  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 562037   | 47.032  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 262736   | 49.318  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 257599   | 48.740  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.82 | 91   | 511348   | 43.283  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.09 | 117  | 100049   | 43.545  | ug/l   | 75       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 227764   | 48.087  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 14496    | 41.399  | ug/l   | 87       |

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ALS Vial : 5 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Mon Apr 20 13:45:45 2020  
Response via : Initial Calibration

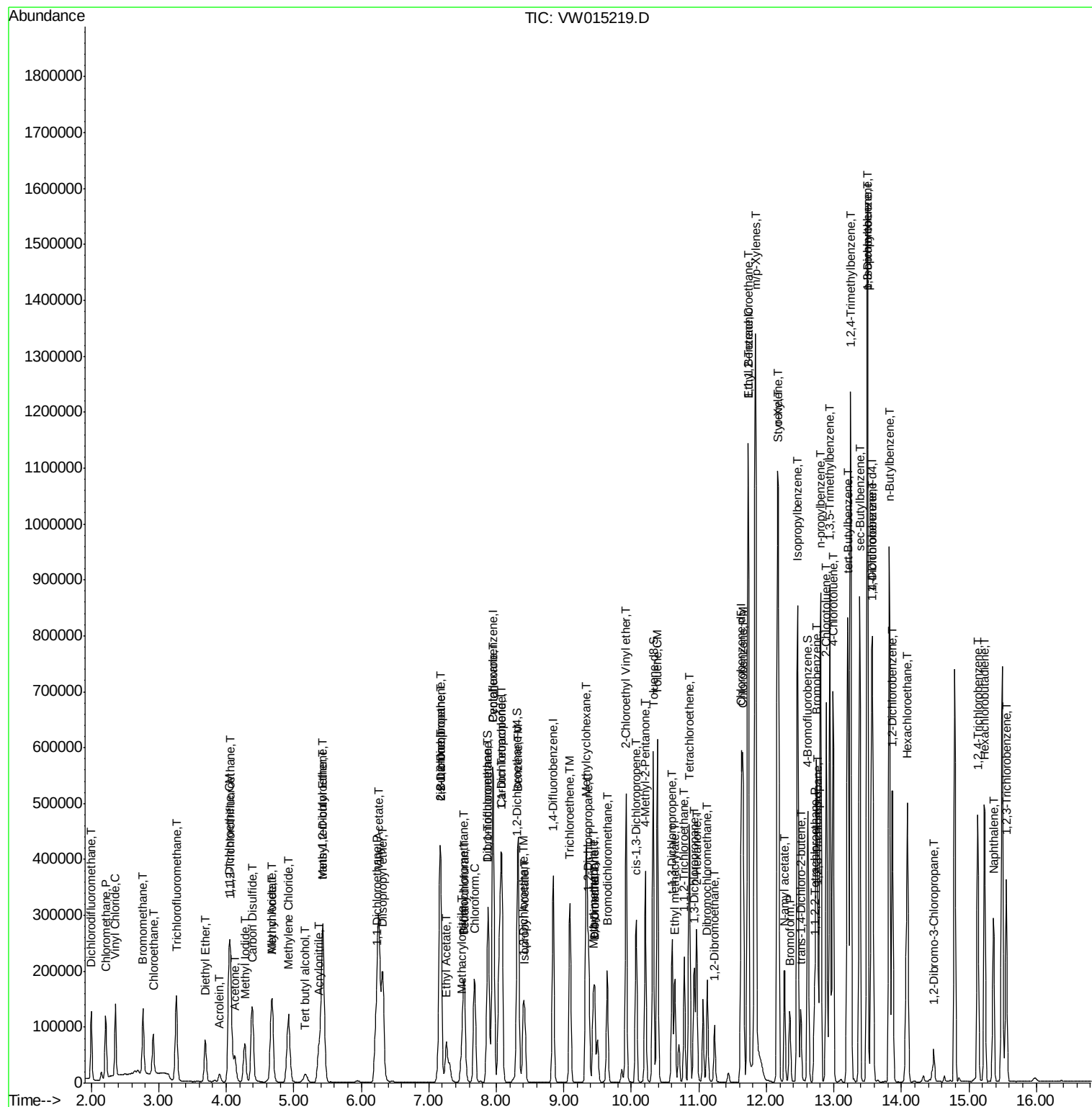
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 160035   | 51.206 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 102529   | 56.863 | ug/l  | 98       |
| 95) Naphthalene            | 15.36 | 128  | 260531   | 43.333 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 130898   | 48.804 | ug/l  | 97       |

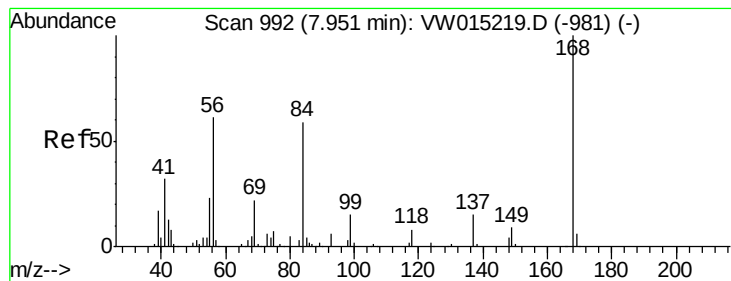
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

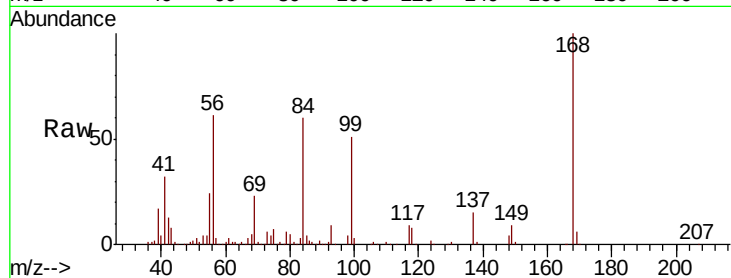
VSTDICCC050

Tot Ion:168 Resp: 232721

Ion Ratio Lower Upper

168 100

99 51.0 48.5 72.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

40000

20000

0

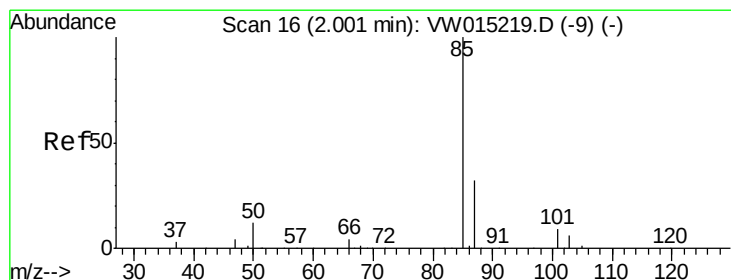
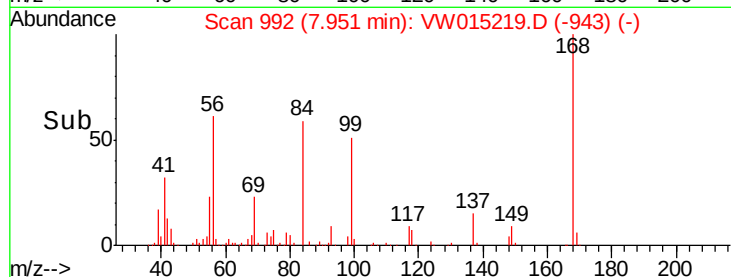
7.80

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 60.670 ug/l

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW015219.D

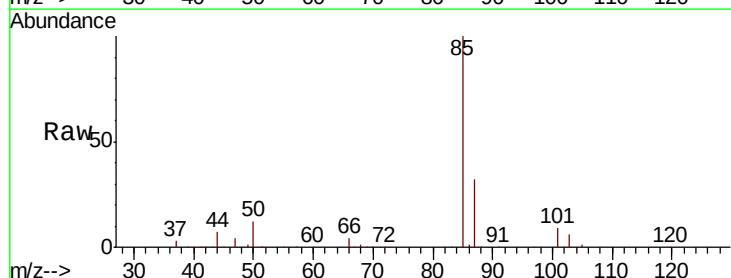
Acq: 20 Apr 2020 13:19

Tgt Ion: 85 Resp: 89903

Ion Ratio Lower Upper

85 100

87 32.4 17.2 51.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

80000

60000

40000

20000

0

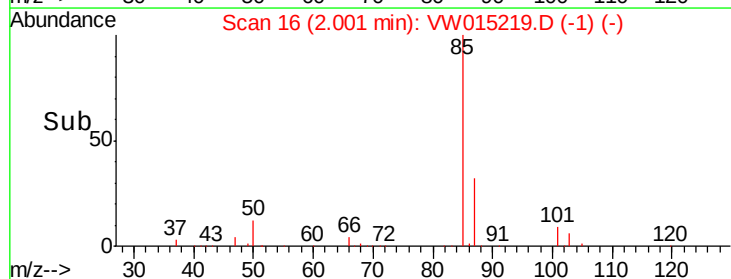
1.95

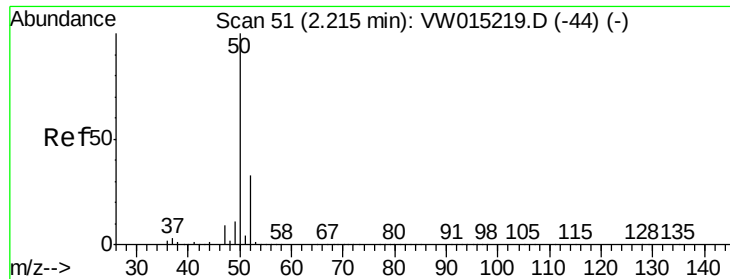
2.00

2.05

2.10

Time-->





#3

Chloromethane

Concen: 47.425 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

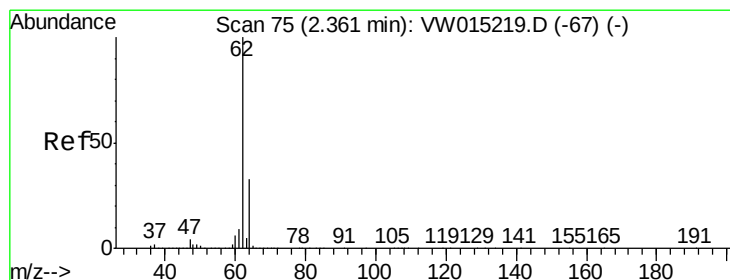
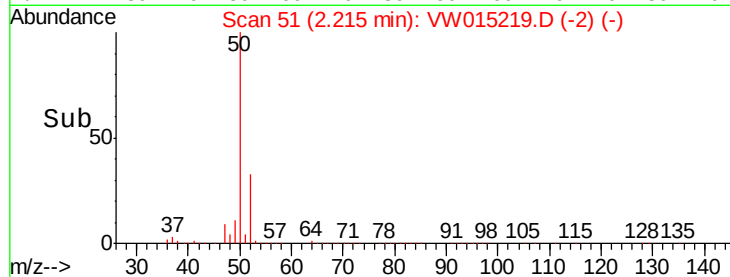
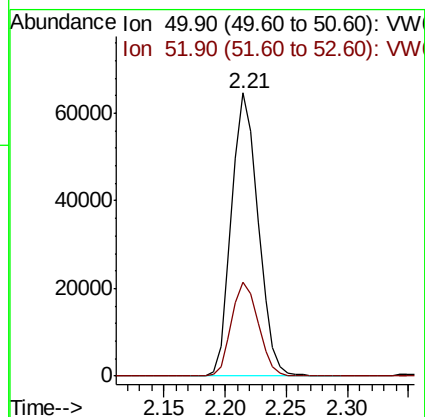
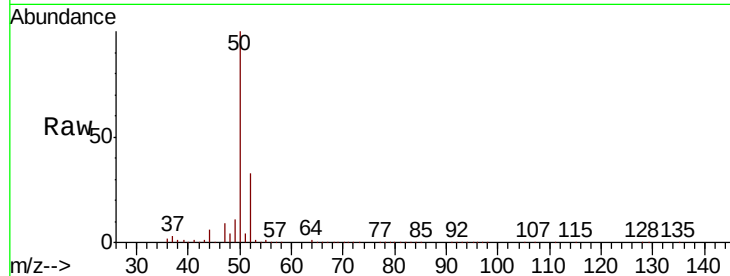
VSTDICCC050

Tot Ion: 50 Resp: 97394

Ion Ratio Lower Upper

50 100

52 33.4 26.5 39.7



#4

Vinyl Chloride

Concen: 47.815 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW015219.D

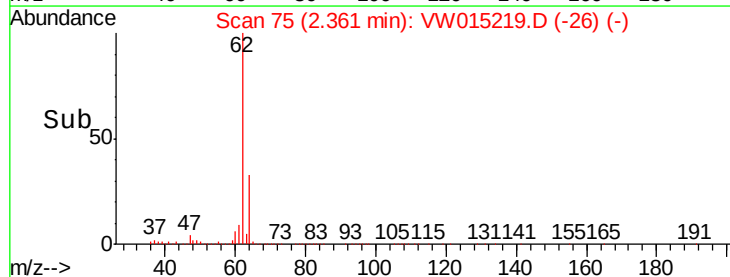
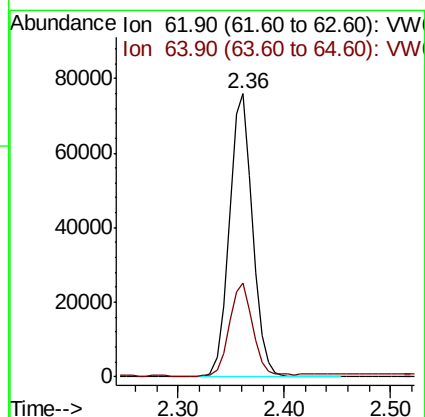
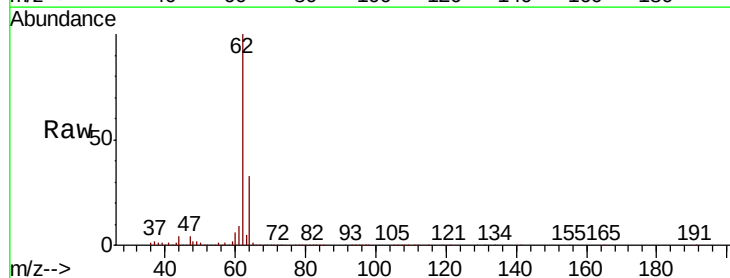
Acq: 20 Apr 2020 13:19

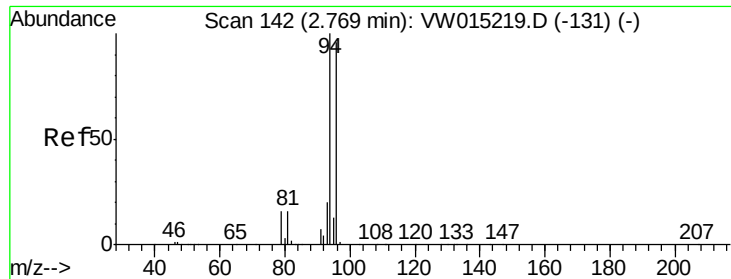
Tgt Ion: 62 Resp: 115632

Ion Ratio Lower Upper

62 100

64 32.8 25.4 38.2





#5

Bromomethane

Concen: 63.421 ug/l

RT: 2.77 min Scan# 142

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

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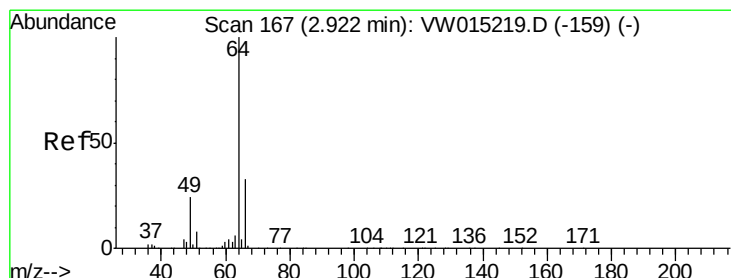
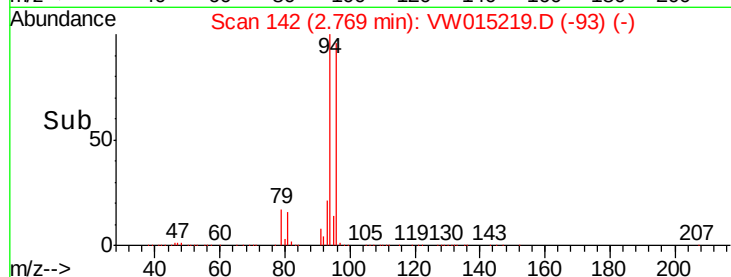
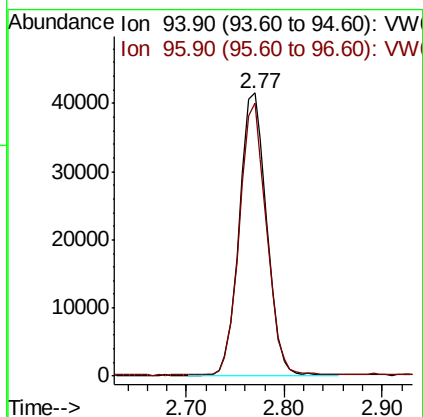
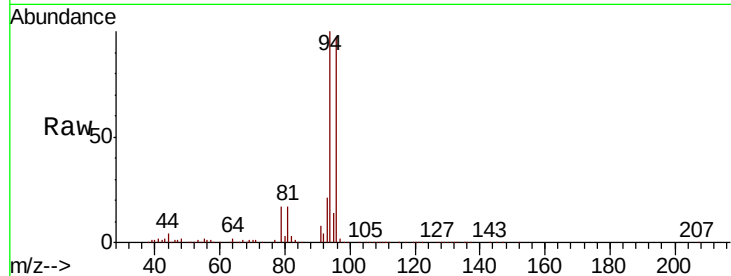
VSTDICCC050

Tot Ion: 94 Resp: 80742

Ion Ratio Lower Upper

94 100

96 96.3 70.4 105.6



#6

Chloroethane

Concen: 57.967 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW015219.D

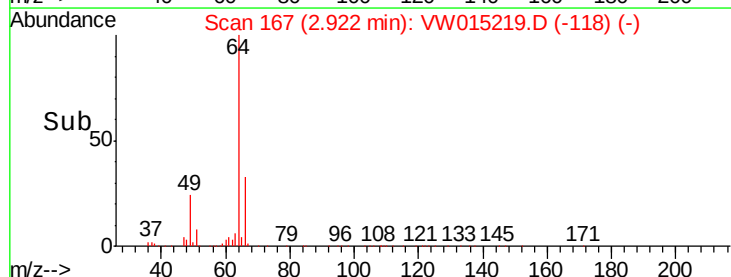
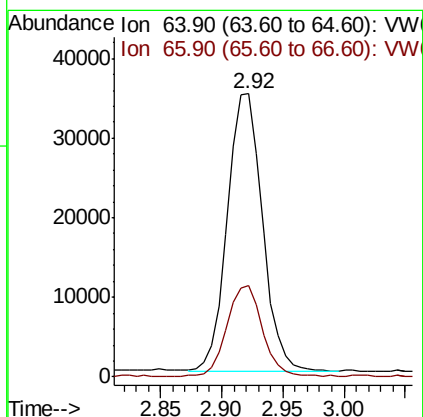
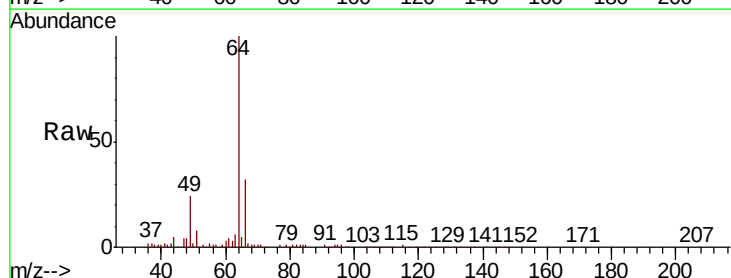
Acq: 20 Apr 2020 13:19

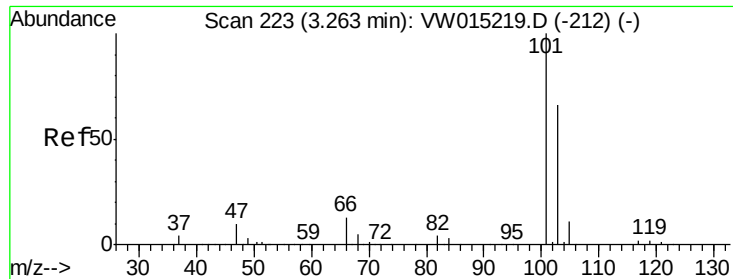
Tgt Ion: 64 Resp: 69149

Ion Ratio Lower Upper

64 100

66 32.6 25.8 38.6



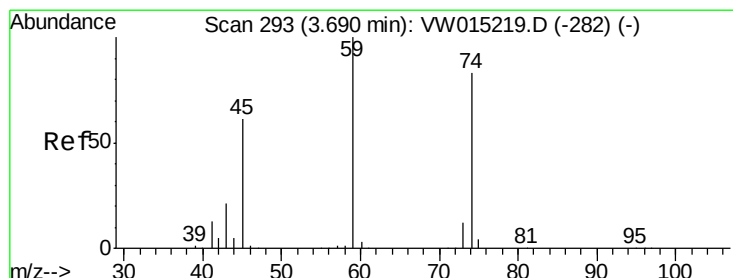
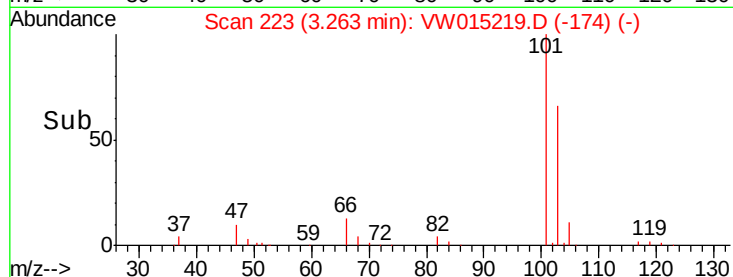
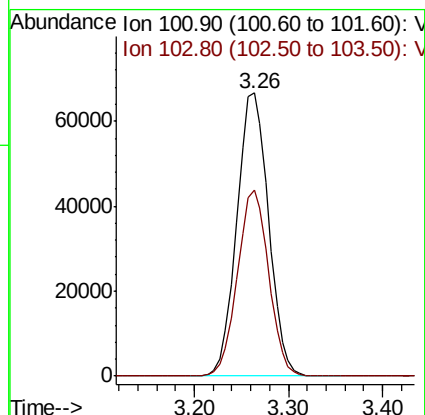
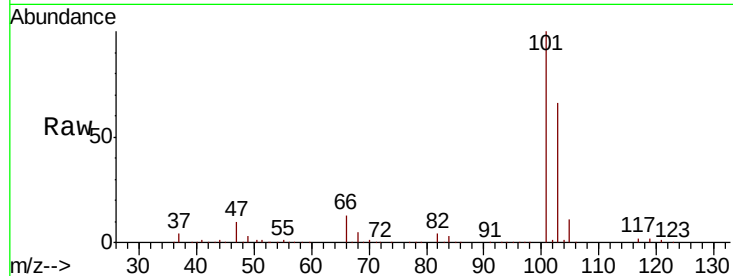


#7

Trichlorofluoromethane  
 Concen: 100.693 ug/l  
 RT: 3.26 min Scan# 223  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

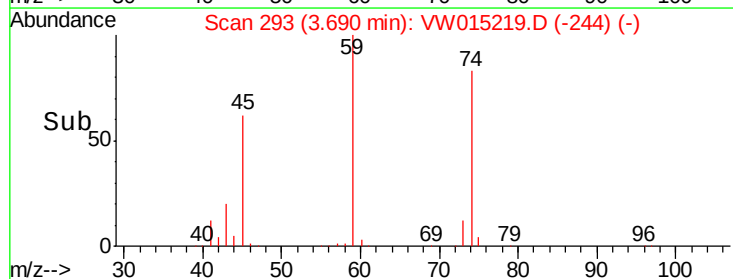
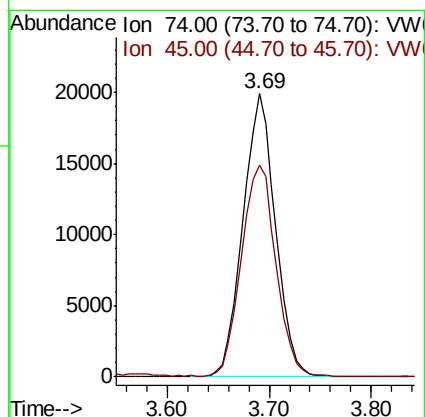
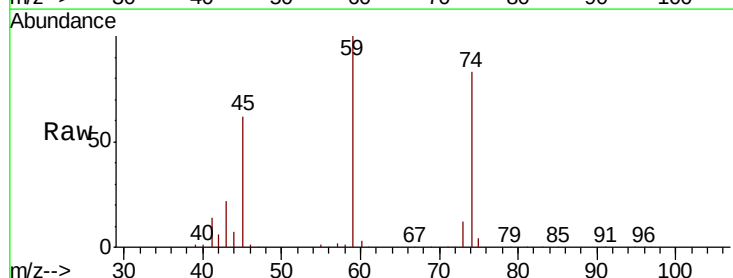
Tot Ion:101 Resp: 156036  
 Ion Ratio Lower Upper  
 101 100  
 103 65.7 51.3 76.9



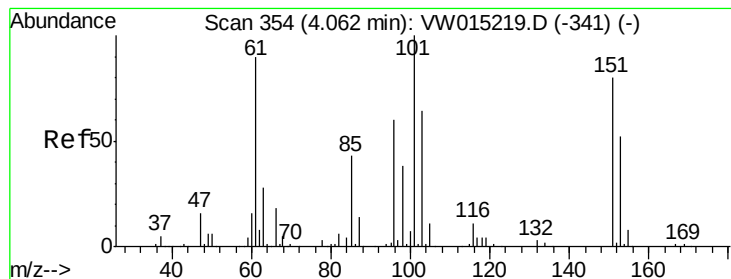
#8

Diethyl Ether  
 Concen: 36.809 ug/l  
 RT: 3.69 min Scan# 293  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Tgt Ion: 74 Resp: 43973  
 Ion Ratio Lower Upper  
 74 100  
 45 79.9 45.5 136.5







#9

1,1,2-Trichlorotrifluoroethane

Concen: 40.146 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

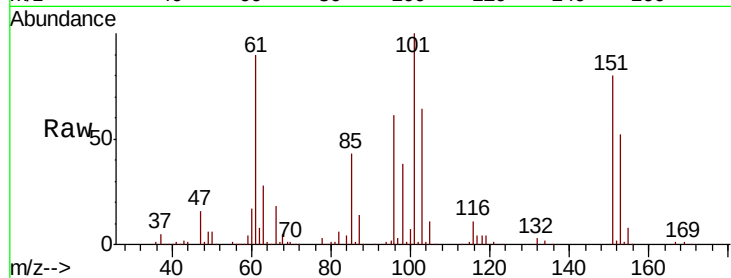
Tot Ion:101 Resp: 94540

Ion Ratio Lower Upper

101 100

85 44.2 35.3 52.9

151 83.3 59.3 88.9

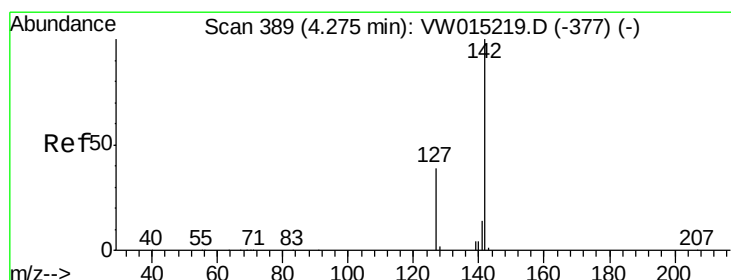
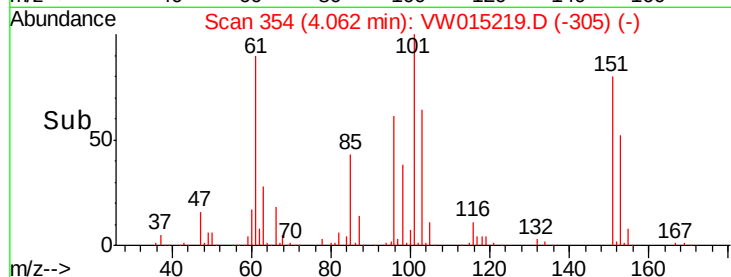
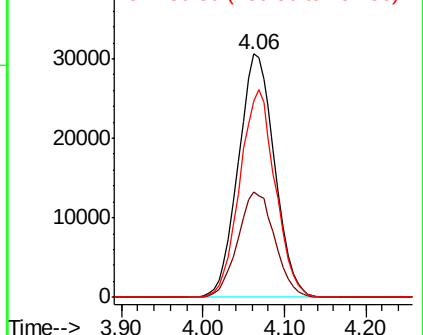


Abundance

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: 32.418 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

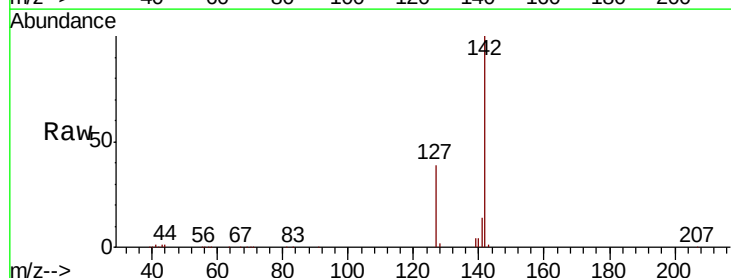
Tgt Ion:142 Resp: 114002

Ion Ratio Lower Upper

142 100

127 41.3 33.9 50.9

141 14.2 11.4 17.2

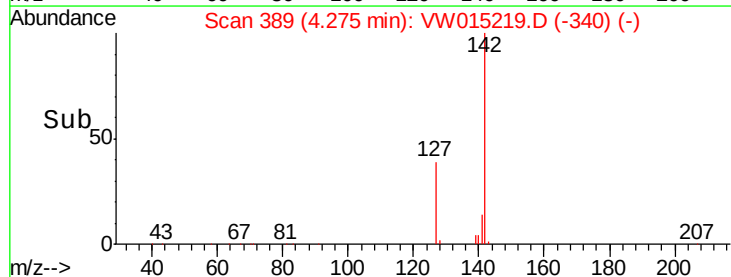
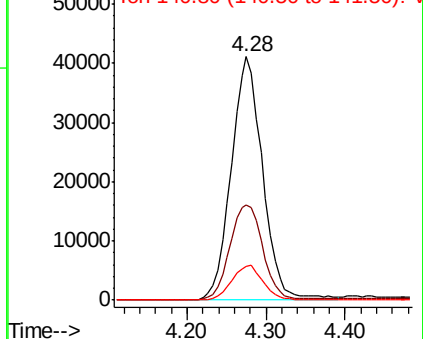


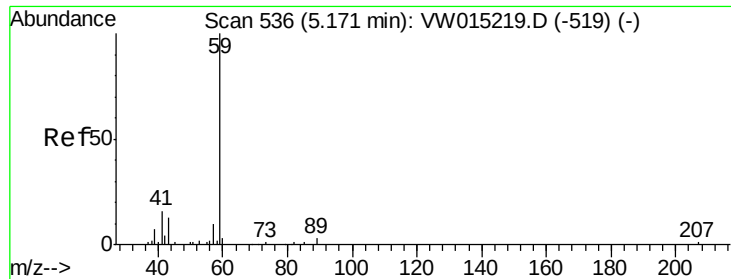
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



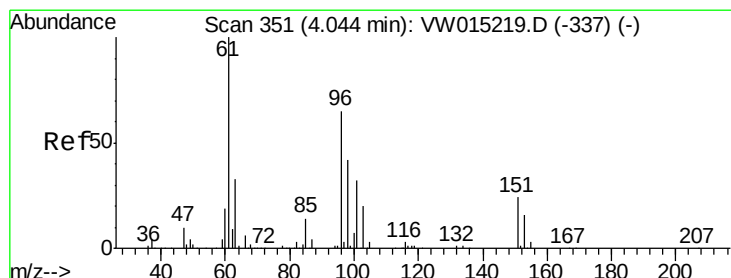
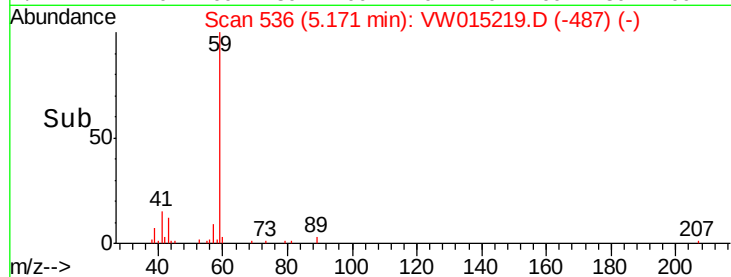
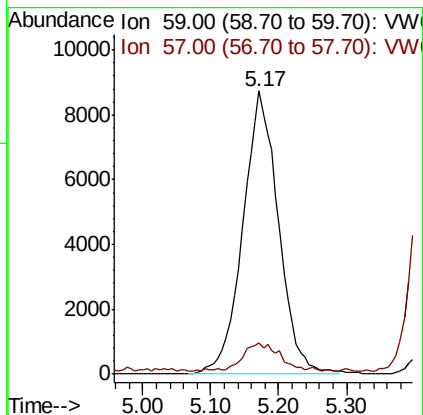
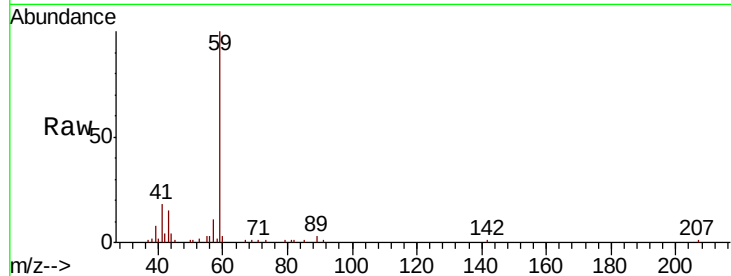


#11

Tert butyl alcohol  
 Concen: 194.543 ug/l  
 RT: 5.17 min Scan# 536  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

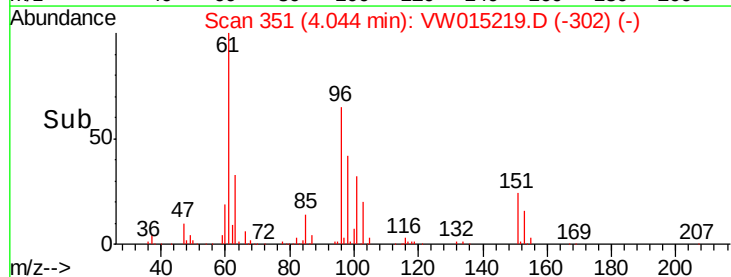
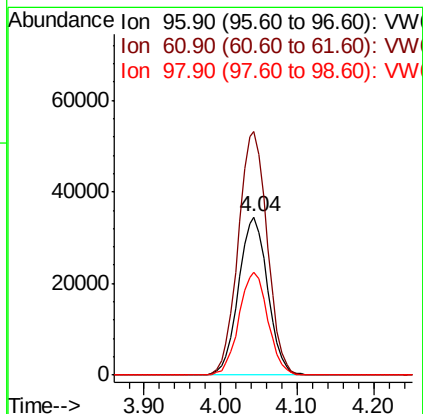
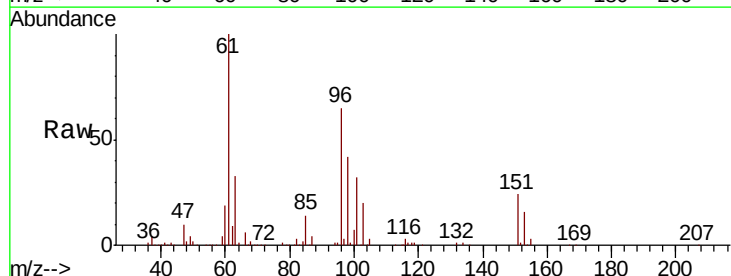
Tot Ion: 59 Resp: 31780  
 Ion Ratio Lower Upper  
 59 100  
 57 10.8 8.4 12.6

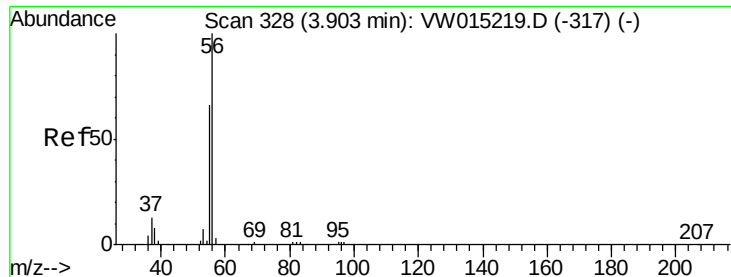


#12

1,1-Dichloroethene  
 Concen: 37.607 ug/l  
 RT: 4.04 min Scan# 351  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Tgt Ion: 96 Resp: 91210  
 Ion Ratio Lower Upper  
 96 100  
 61 154.0 127.0 190.4  
 98 64.8 51.0 76.4

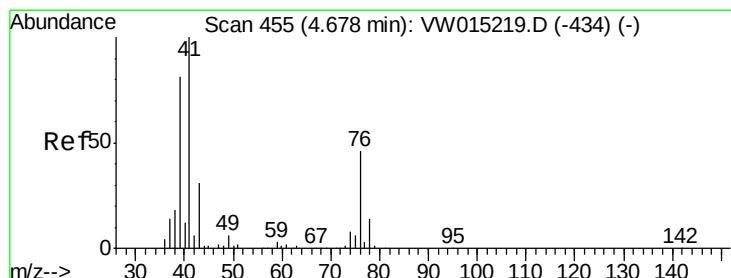
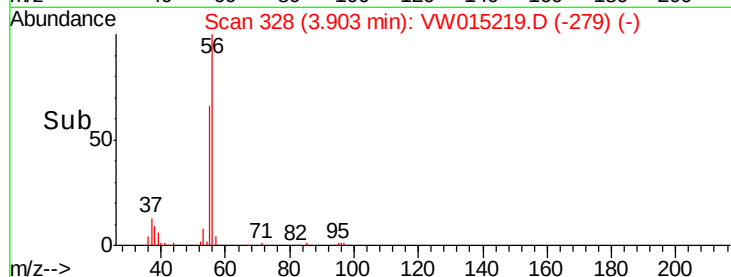
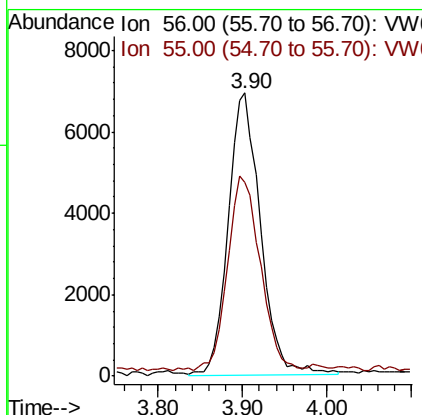
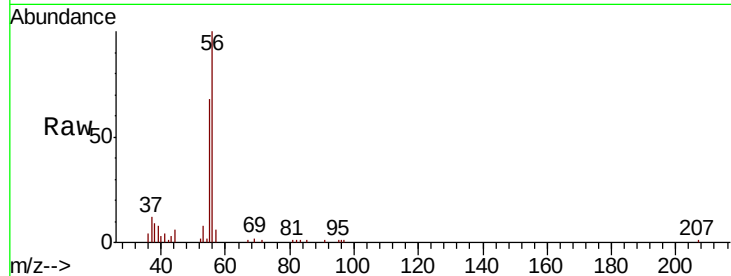




#13  
Acrolein  
Concen: 105.458 ug/l  
RT: 3.90 min Scan# 328  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

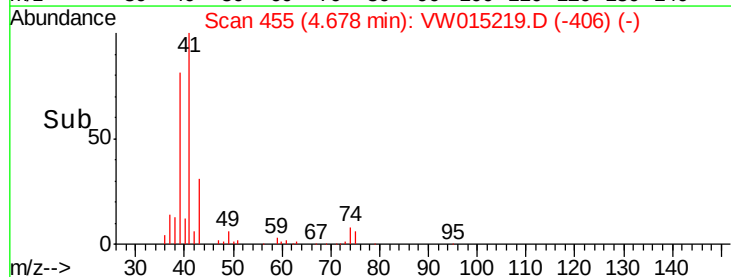
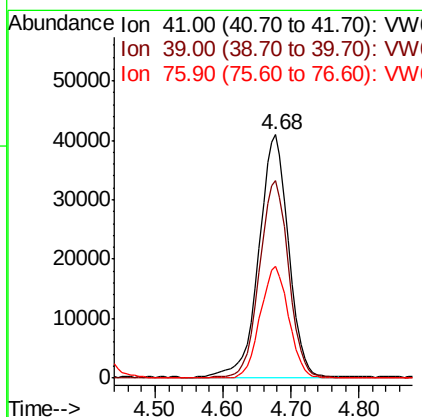
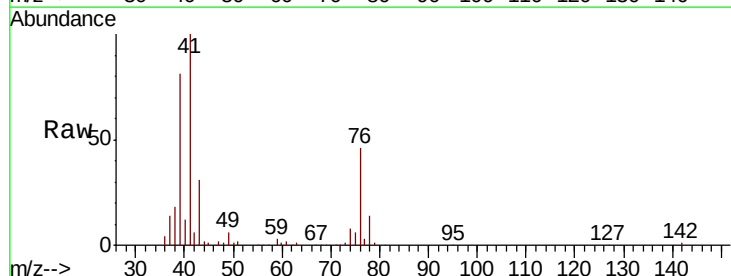
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

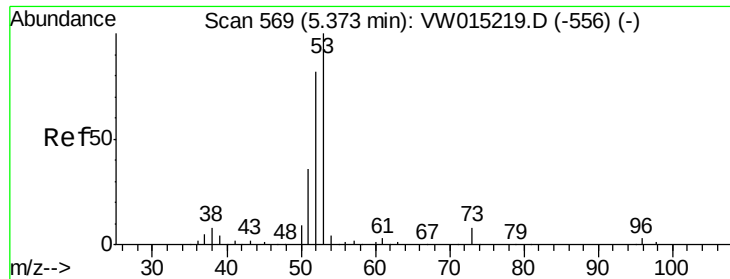
Tot Ion: 56 Resp: 17910  
Ion Ratio Lower Upper  
56 100  
55 69.9 56.2 84.2



#14  
Allyl chloride  
Concen: 34.519 ug/l  
RT: 4.68 min Scan# 455  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 41 Resp: 123848  
Ion Ratio Lower Upper  
41 100  
39 79.7 54.0 81.0  
76 44.3 31.8 47.6





#15

Acrylonitrile

Concen: 165.851 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

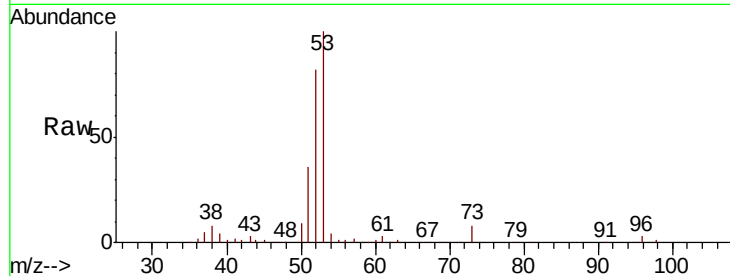
Tot Ion: 53 Resp: 83153

Ion Ratio Lower Upper

53 100

52 81.8 65.2 97.8

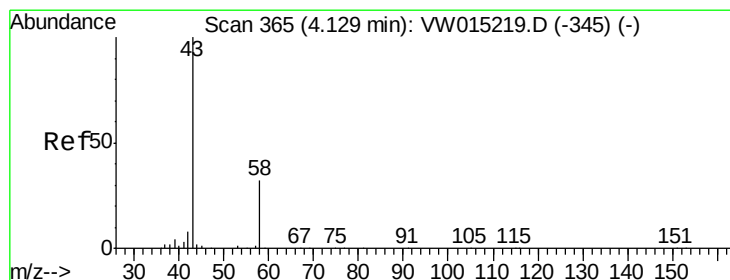
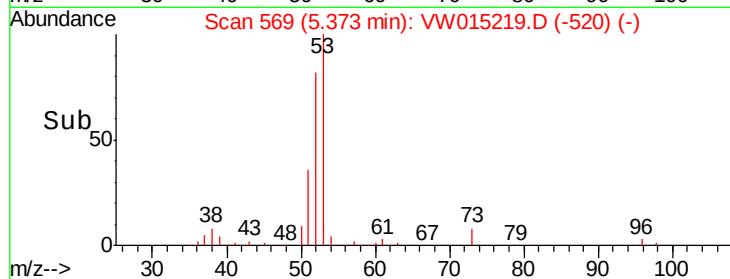
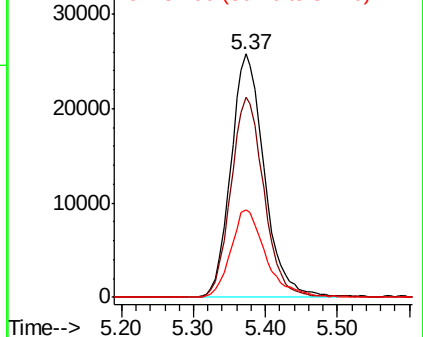
51 37.6 28.2 42.4



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: 200.943 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW015219.D

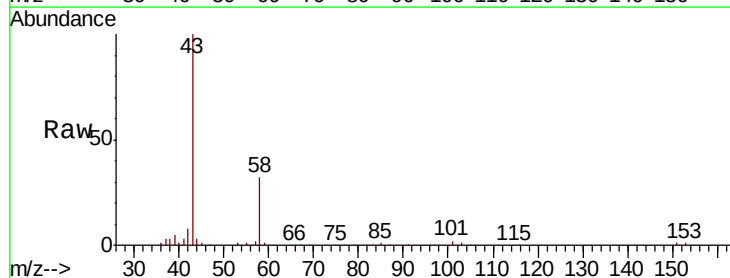
Acq: 20 Apr 2020 13:19

Tgt Ion: 43 Resp: 78758

Ion Ratio Lower Upper

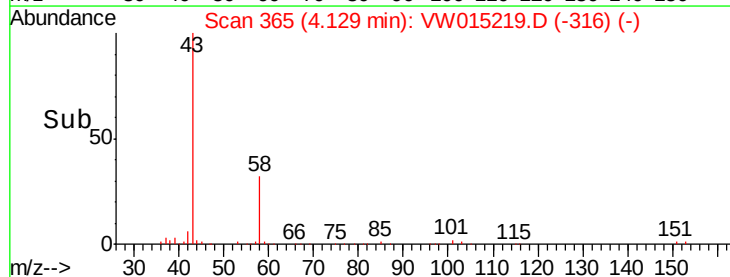
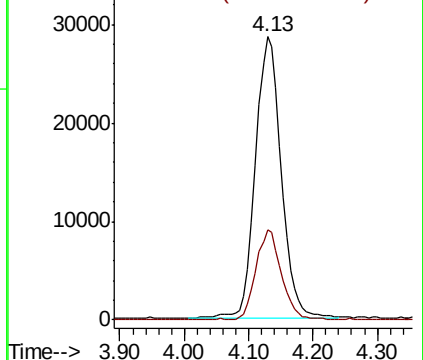
43 100

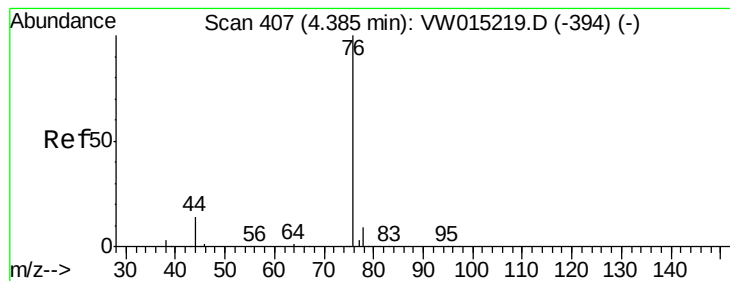
58 31.6 27.0 40.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 38.459 ug/l

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

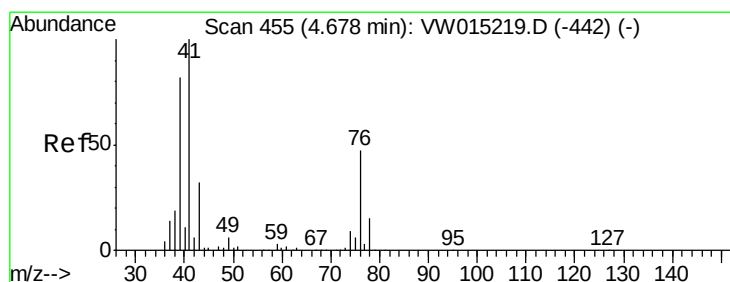
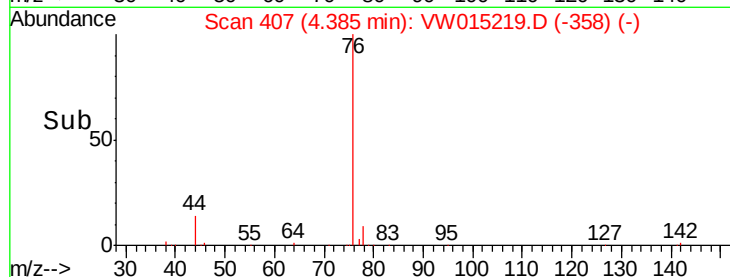
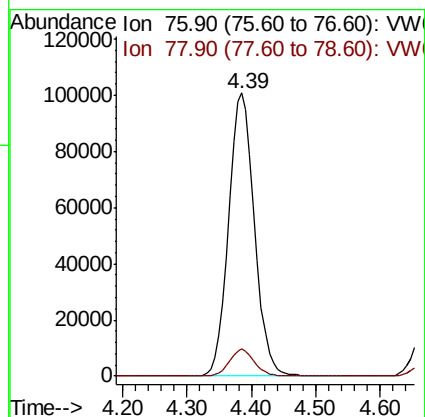
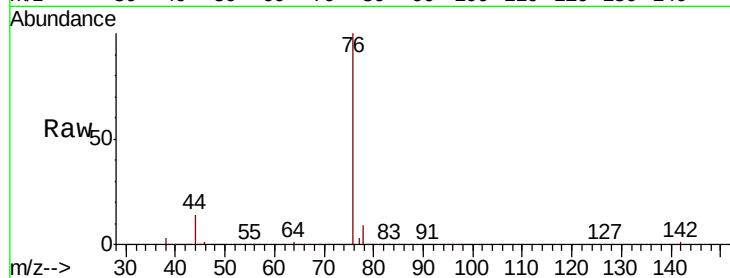
VSTDICCC050

Tot Ion: 76 Resp: 283899

Ion Ratio Lower Upper

76 100

78 9.5 7.0 10.6



#18

Methyl Acetate

Concen: 32.436 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW015219.D

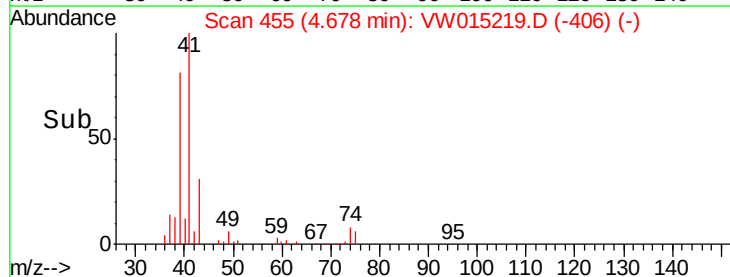
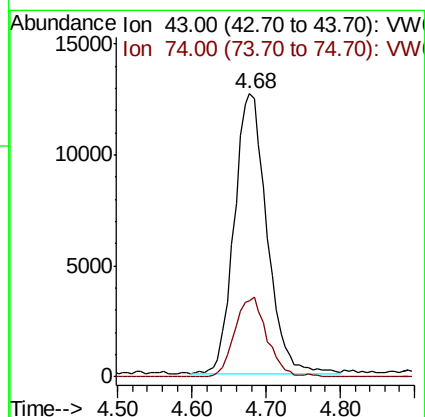
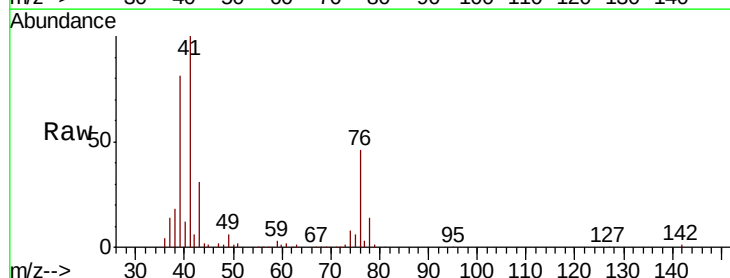
Acq: 20 Apr 2020 13:19

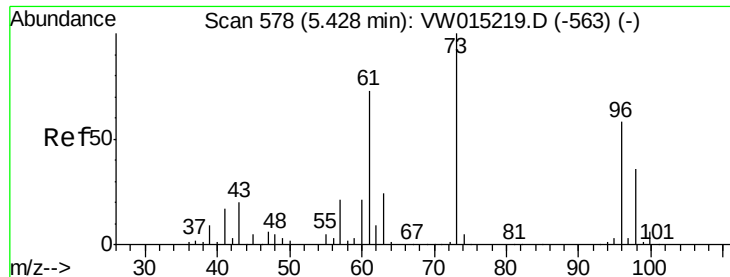
Tgt Ion: 43 Resp: 38876

Ion Ratio Lower Upper

43 100

74 28.0 20.6 31.0



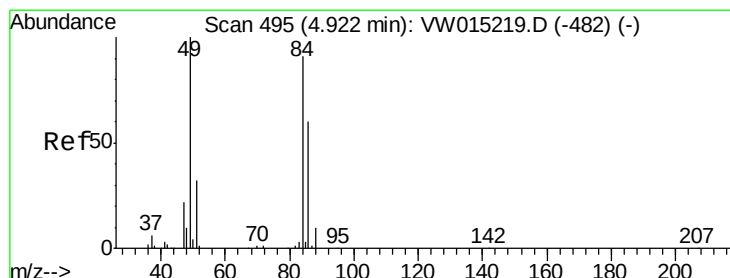
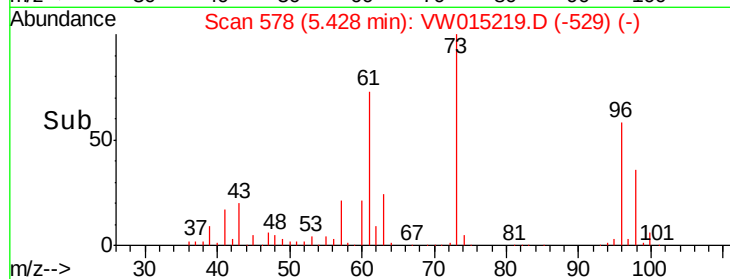
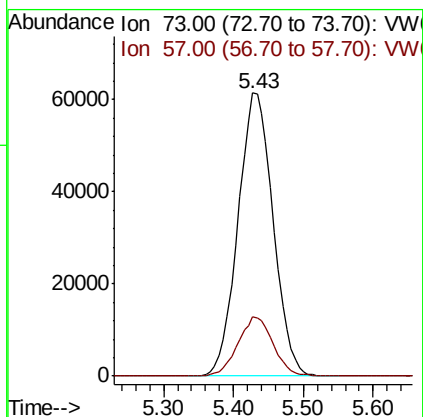
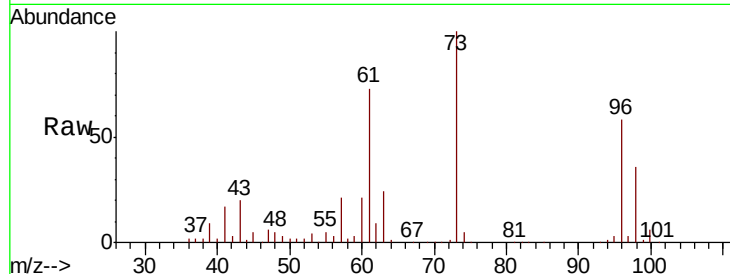


#19

Methyl tert-butyl Ether  
 Concen: 67.418 ug/l  
 RT: 5.43 min Scan# 578  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

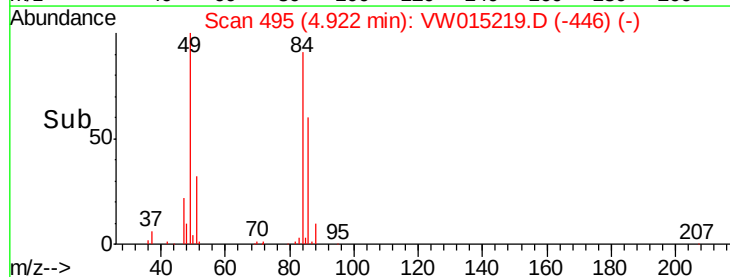
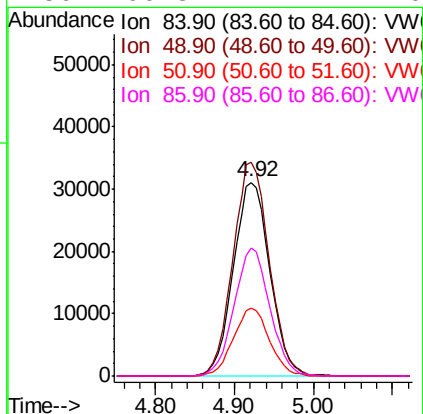
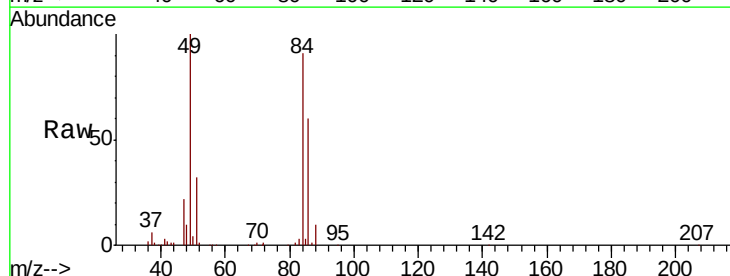
Tot Ion: 73 Resp: 214142  
 Ion Ratio Lower Upper  
 73 100  
 57 21.0 17.8 26.6

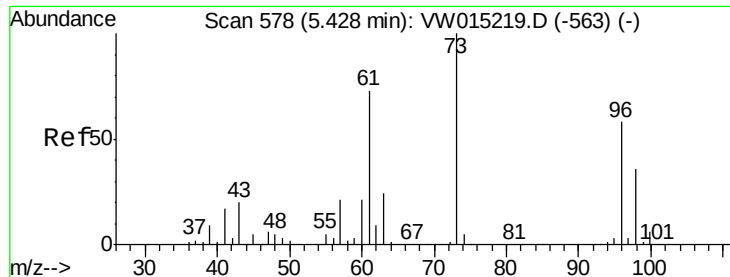


#20

Methylene Chloride  
 Concen: 36.964 ug/l  
 RT: 4.92 min Scan# 495  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Tgt Ion: 84 Resp: 100331  
 Ion Ratio Lower Upper  
 84 100  
 49 110.2 95.4 143.0  
 51 34.7 29.8 44.8  
 86 66.3 47.4 71.0

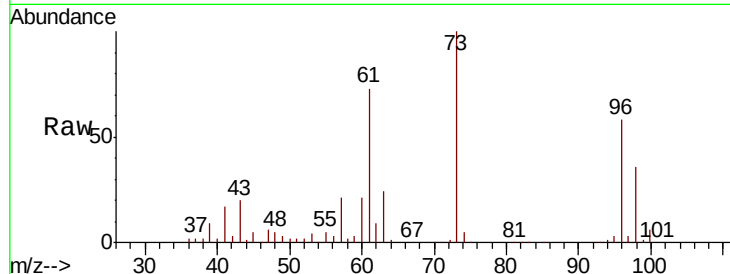




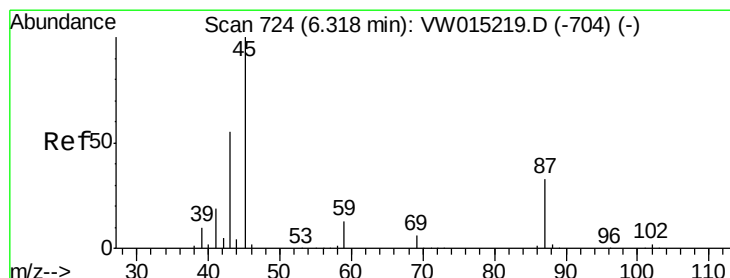
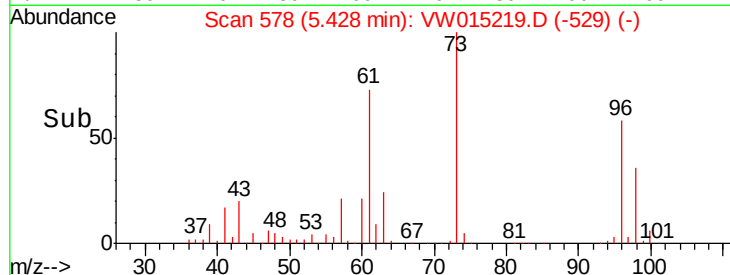
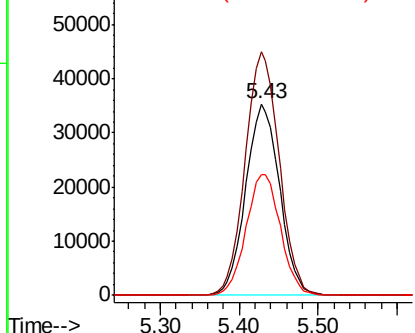
#21  
trans-1,2-Dichloroethene  
Concen: 41.296 ug/l  
RT: 5.43 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

Tot Ion: 96 Resp: 105675  
Ion Ratio Lower Upper  
96 100  
61 127.1 107.8 161.6  
98 62.9 50.2 75.2

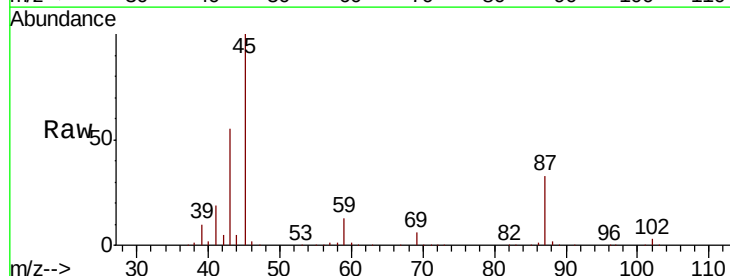


Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW

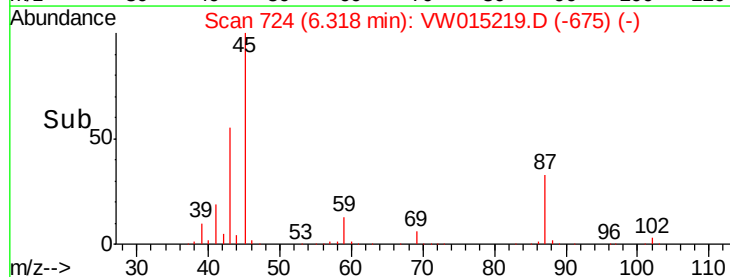
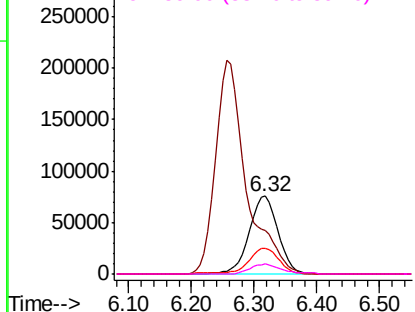


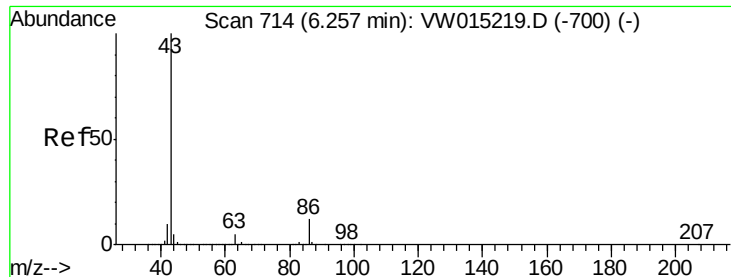
#22  
Diisopropyl ether  
Concen: 33.113 ug/l  
RT: 6.32 min Scan# 724  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 45 Resp: 239602  
Ion Ratio Lower Upper  
45 100  
43 54.9 41.8 62.6  
87 33.2 23.2 34.8  
59 12.7 9.6 14.4



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





#23

Vinyl Acetate

Concen: 166.673 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

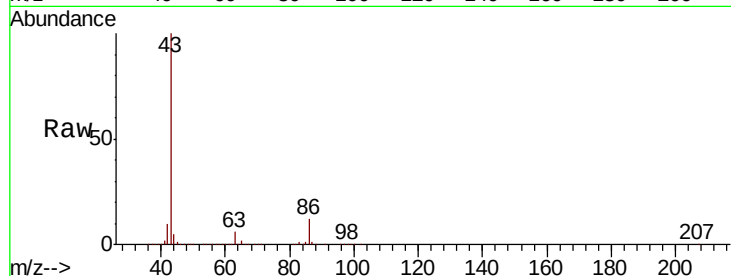
VSTDICCC050

Tot Ion: 43 Resp: 700401

Ion Ratio Lower Upper

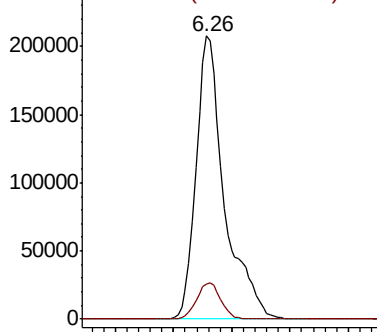
43 100

86 12.5 9.1 13.7

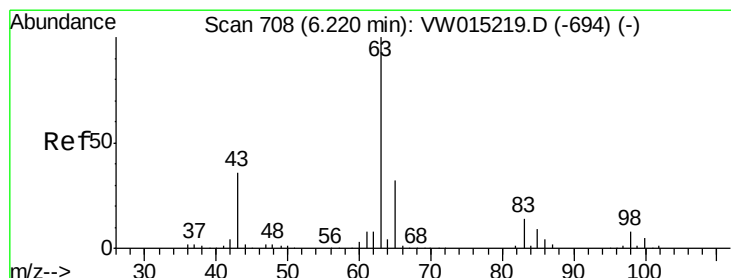
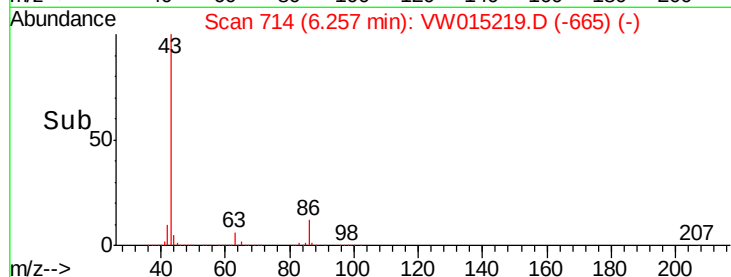


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



Time-->



#24

1,1-Dichloroethane

Concen: 38.394 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

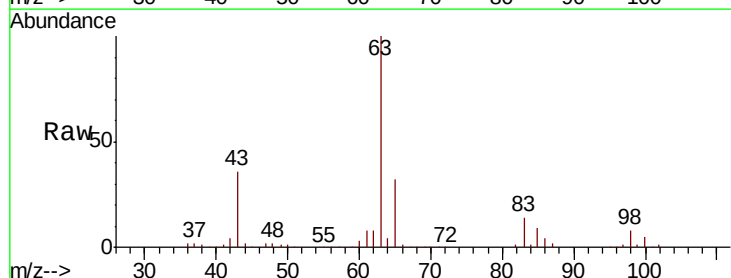
Tgt Ion: 63 Resp: 165172

Ion Ratio Lower Upper

63 100

98 8.4 3.6 10.9

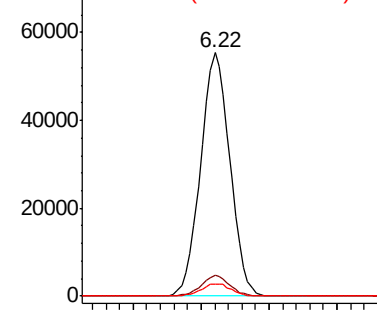
100 4.9 2.4 7.2



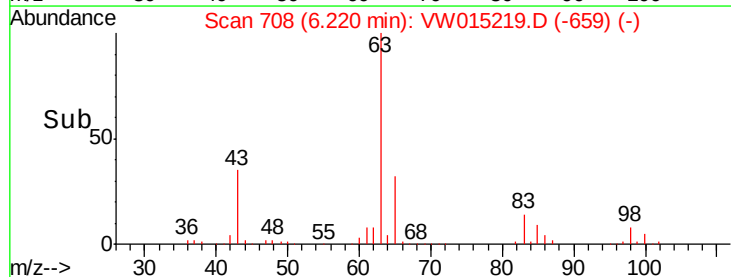
Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

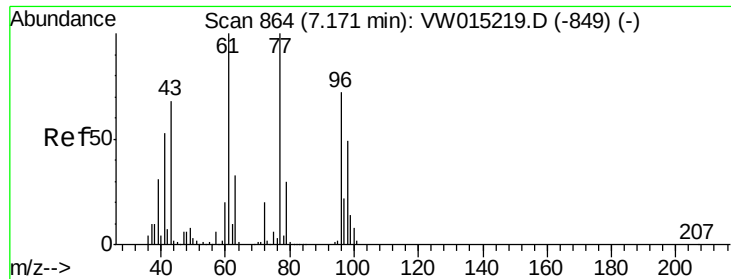
Ion 99.90 (99.60 to 100.60): VW



Time-->



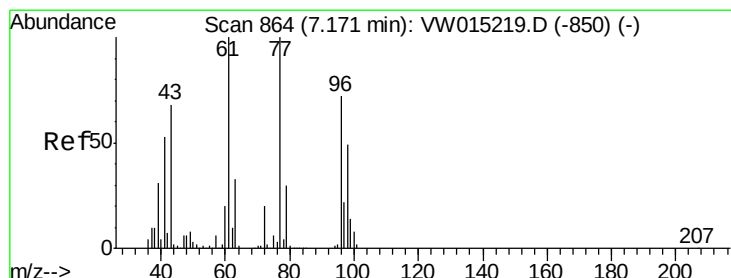
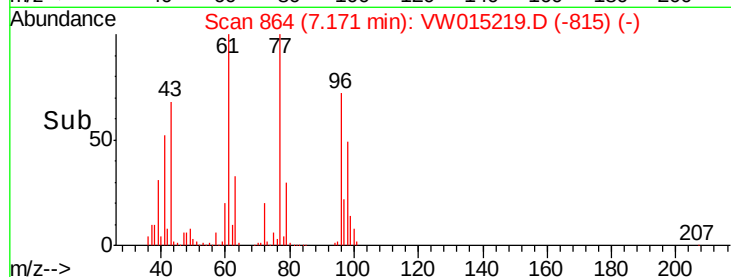
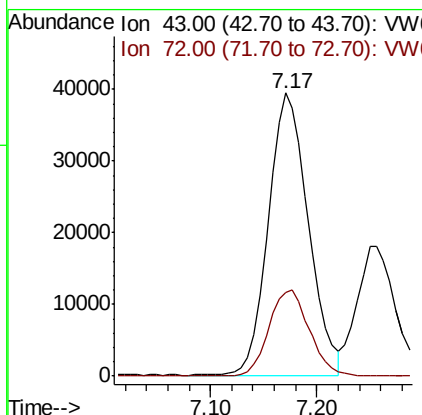
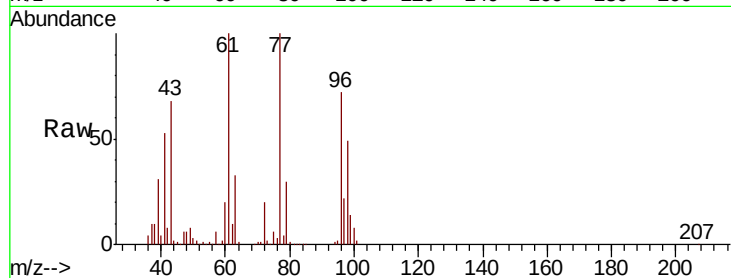




#25  
2-Butanone  
Concen: 163.128 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

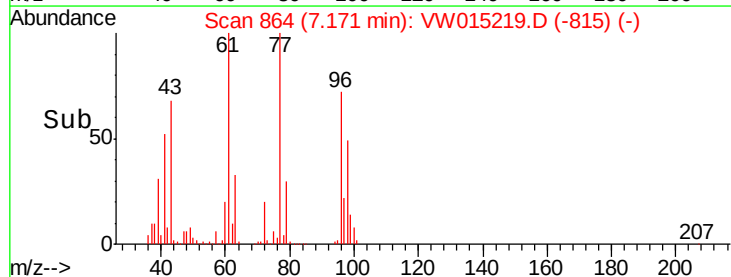
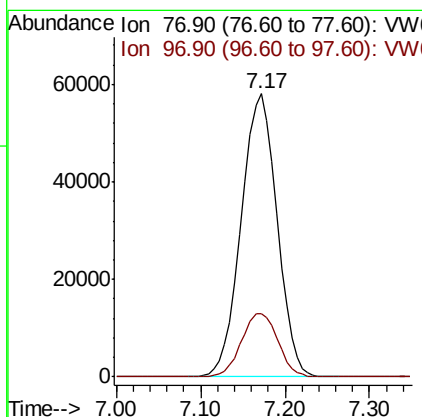
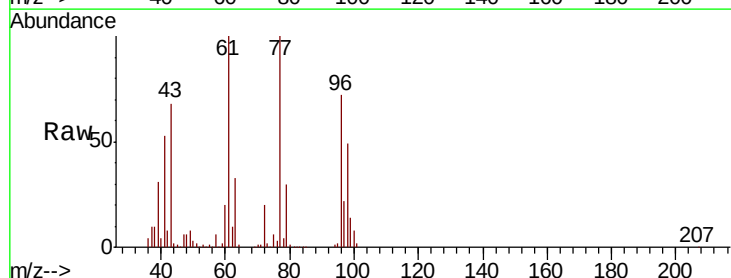
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

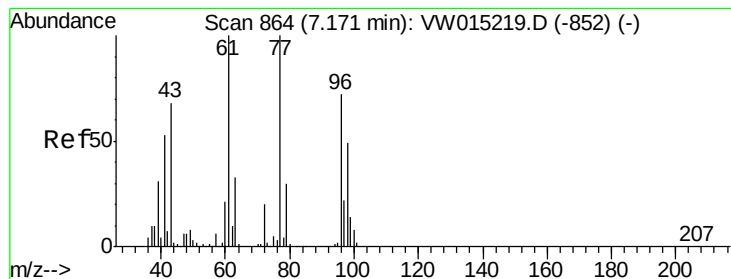
Tot Ion: 43 Resp: 102315  
Ion Ratio Lower Upper  
43 100  
72 29.8 21.6 32.4



#26  
2,2-Dichloropropane  
Concen: 58.539 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 77 Resp: 167605  
Ion Ratio Lower Upper  
77 100  
97 22.8 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 41.198 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

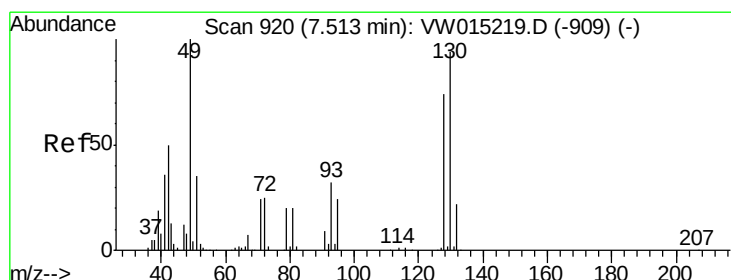
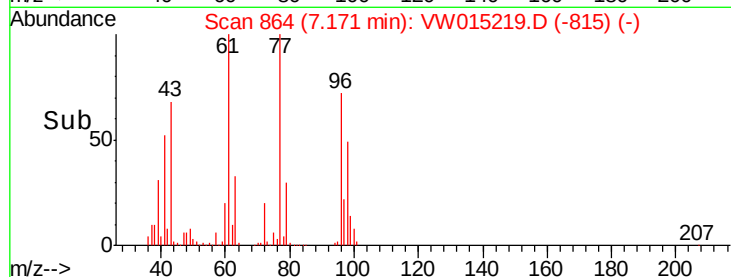
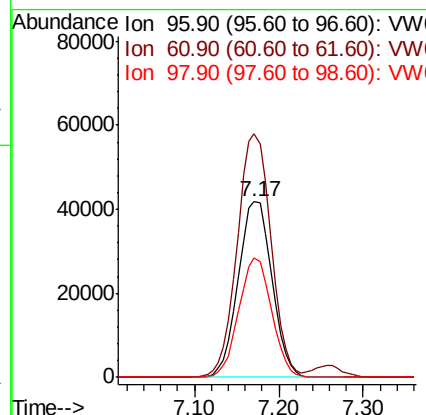
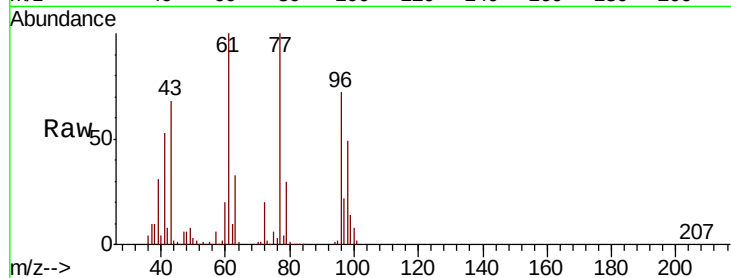
Tot Ion: 96 Resp: 113651

Ion Ratio Lower Upper

96 100

61 138.4 0.0 275.0

98 65.9 0.0 130.8



#28

Bromochloromethane

Concen: 34.881 ug/l

RT: 7.51 min Scan# 920

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

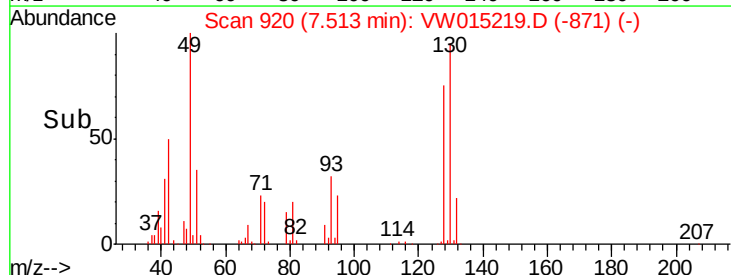
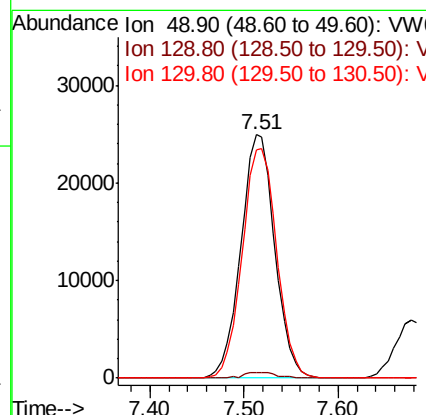
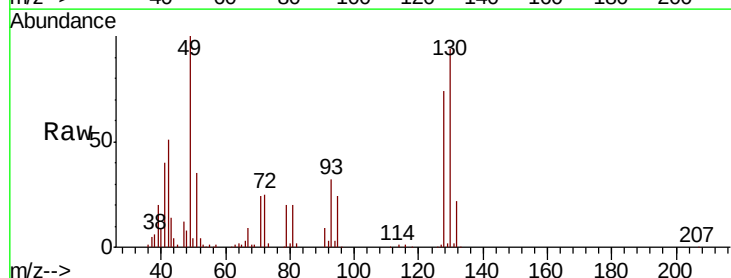
Tgt Ion: 49 Resp: 62716

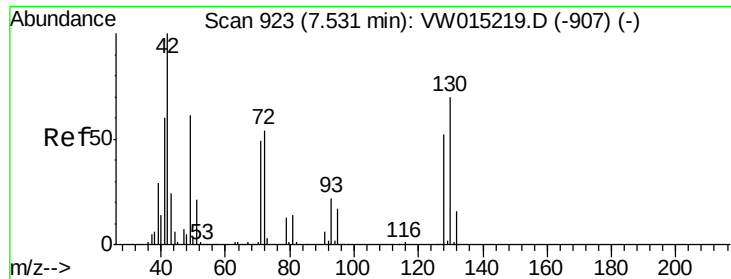
Ion Ratio Lower Upper

49 100

129 2.3 0.0 4.6

130 96.1 60.9 91.3#

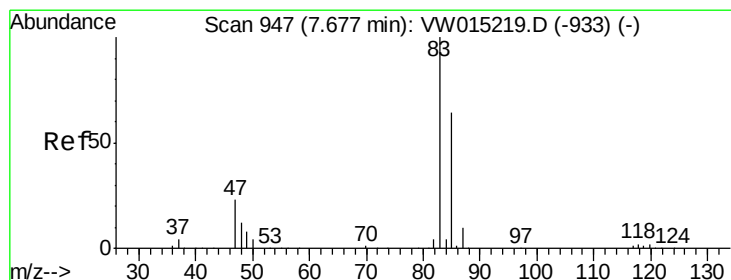
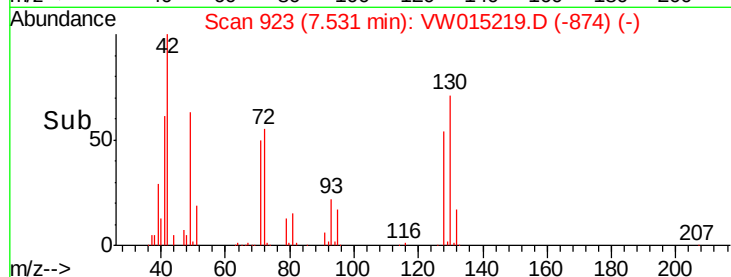
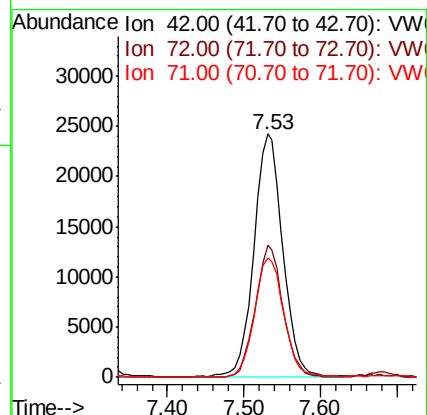
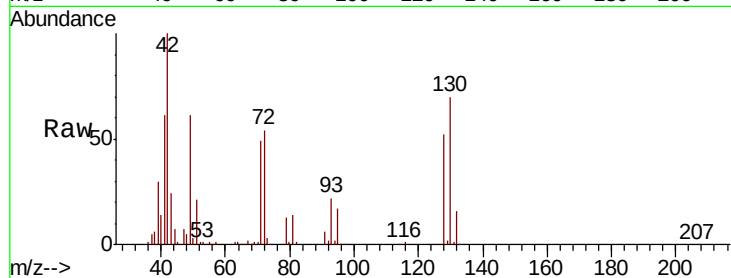




#29  
Tetrahydrofuran  
Concen: 155.830 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

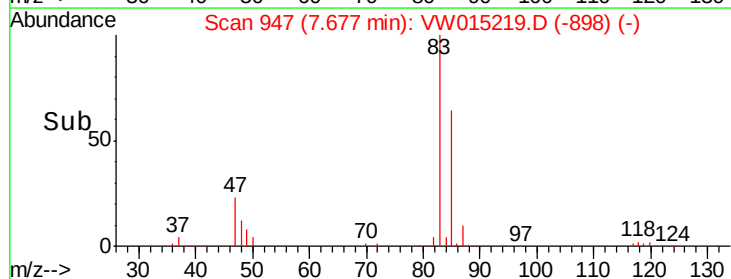
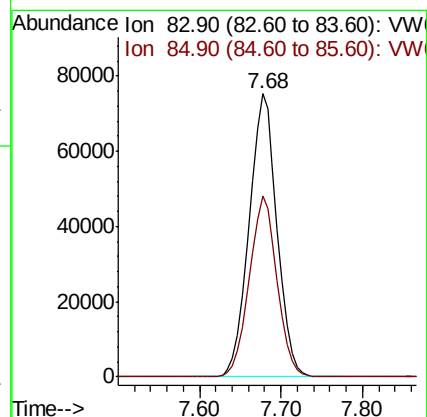
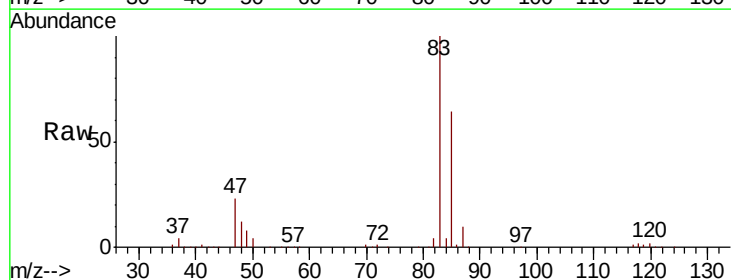
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

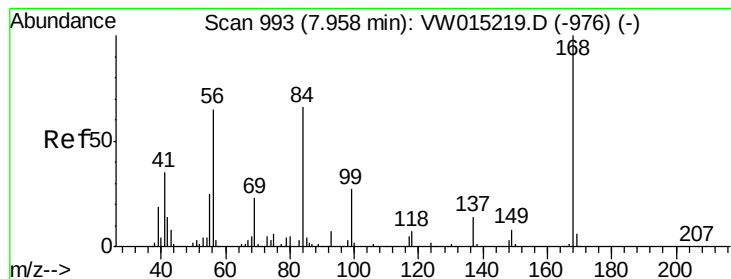
Tot Ion: 42 Resp: 64067  
Ion Ratio Lower Upper  
42 100  
72 51.8 36.2 54.2  
71 48.9 34.2 51.4



#30  
Chloroform  
Concen: 42.329 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 83 Resp: 178381  
Ion Ratio Lower Upper  
83 100  
85 63.8 50.9 76.3





#31

Cyclohexane

Concen: 34.203 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

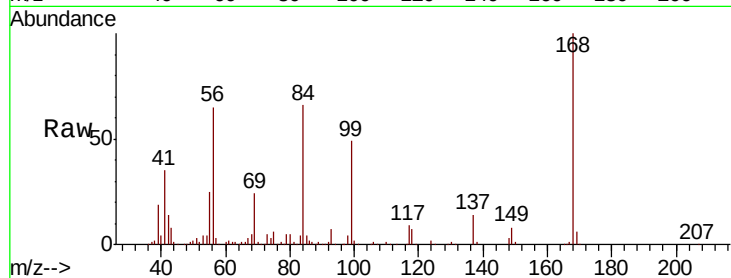
Tot Ion: 56 Resp: 157284

Ion Ratio Lower Upper

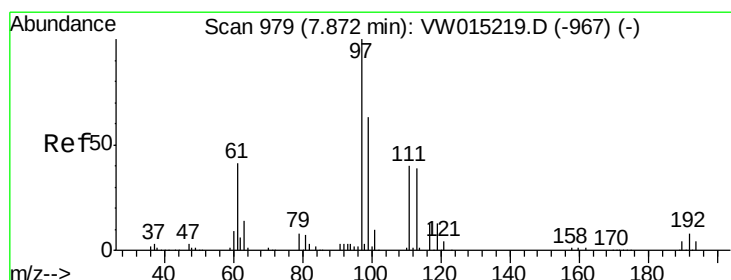
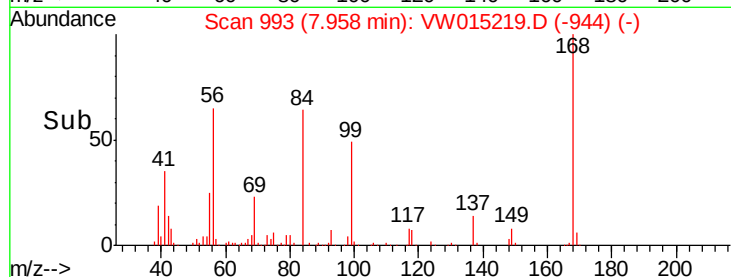
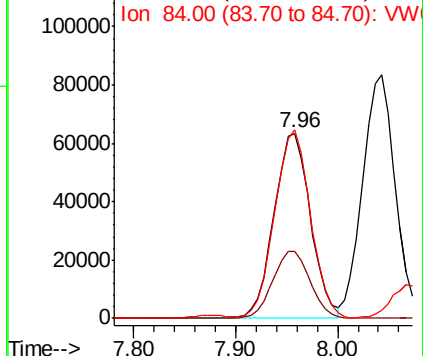
56 100

69 36.1 27.1 40.7

84 100.8 71.9 107.9



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: 47.657 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

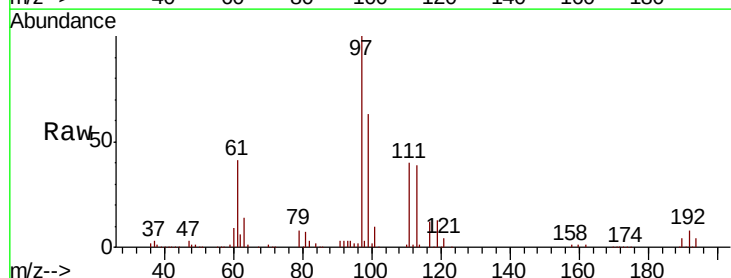
Tgt Ion: 97 Resp: 169183

Ion Ratio Lower Upper

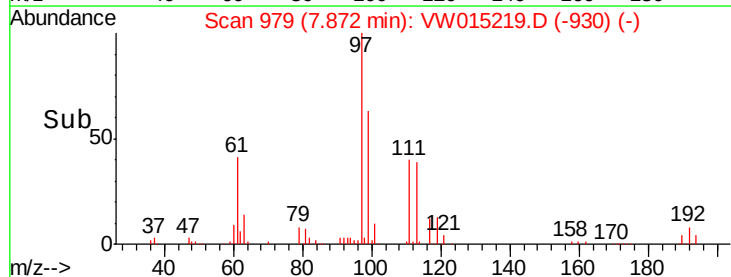
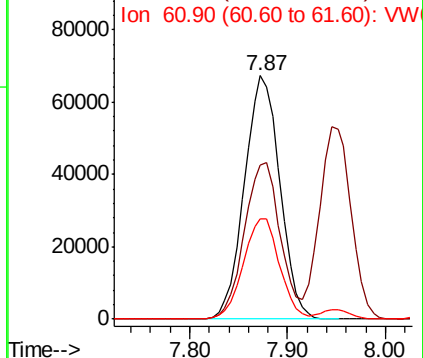
97 100

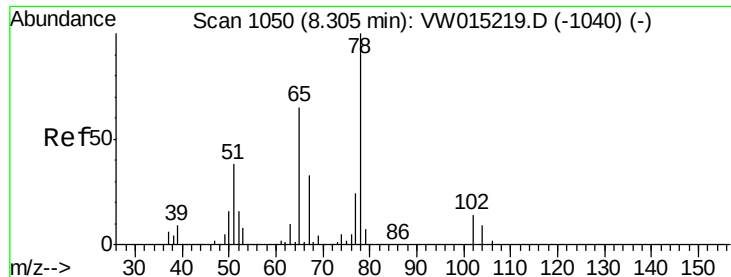
99 65.4 52.2 78.2

61 42.0 34.2 51.2



Abundance Ion 96.90 (96.60 to 97.60): VW  
Ion 98.90 (98.60 to 99.60): VW  
Ion 60.90 (60.60 to 61.60): VW

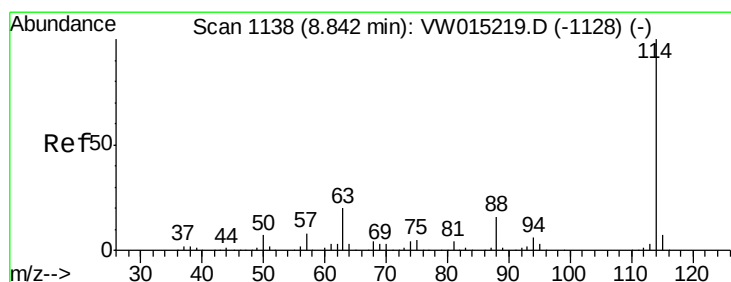
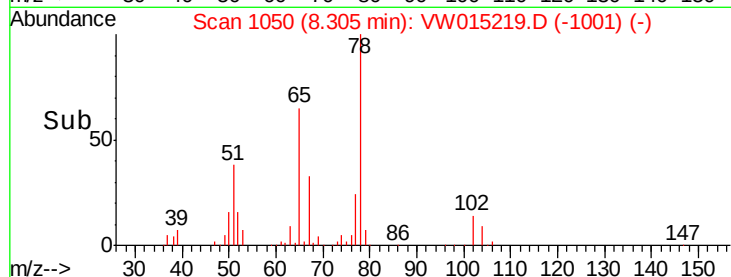
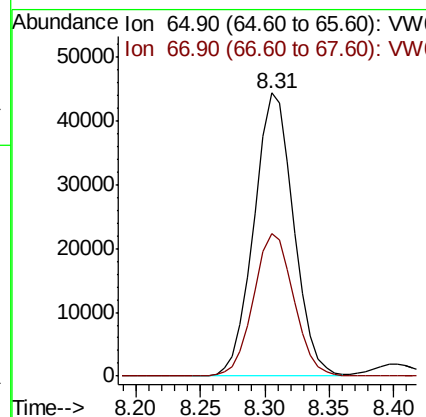
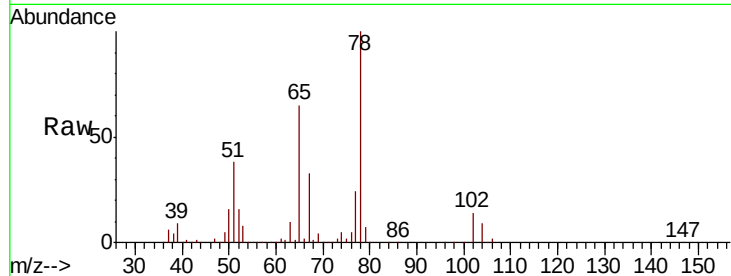




#33  
 1,2-Dichloroethane-d4  
 Concen: 42.965 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

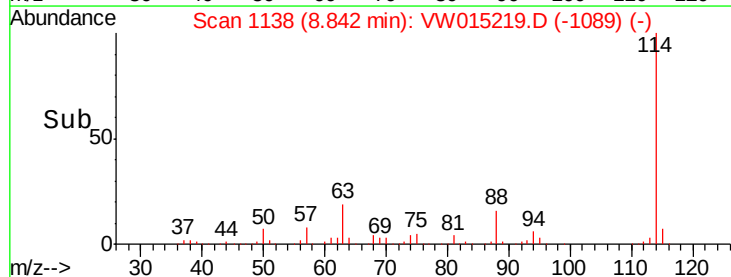
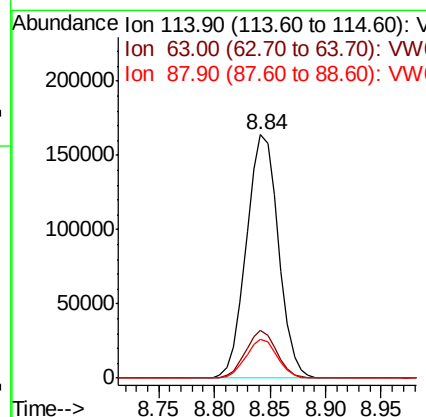
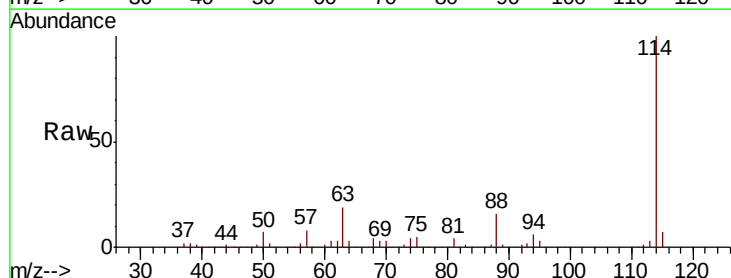
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

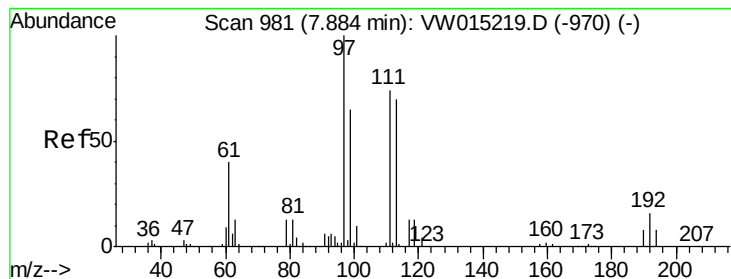
Tot Ion: 65 Resp: 94547  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 107.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Tgt Ion: 114 Resp: 329065  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 39.8  
 88 15.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 51.029 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

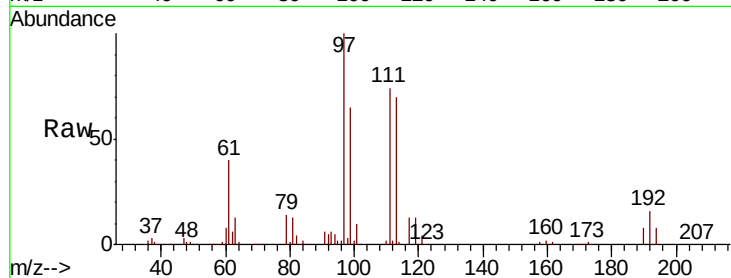
Tot Ion:113 Resp: 92860

Ion Ratio Lower Upper

113 100

111 103.8 83.0 124.4

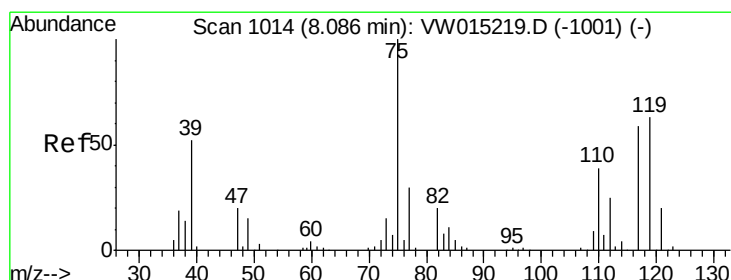
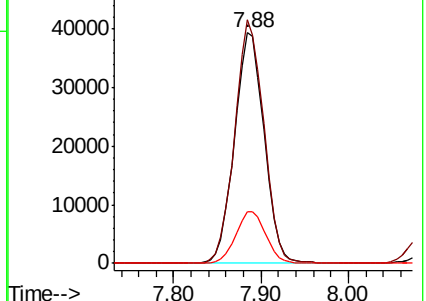
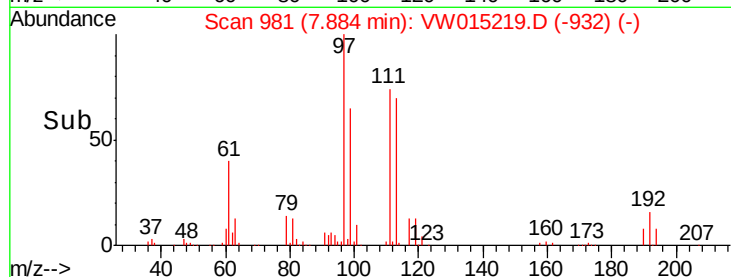
192 22.5 15.1 22.7



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: 48.814 ug/l

RT: 8.09 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

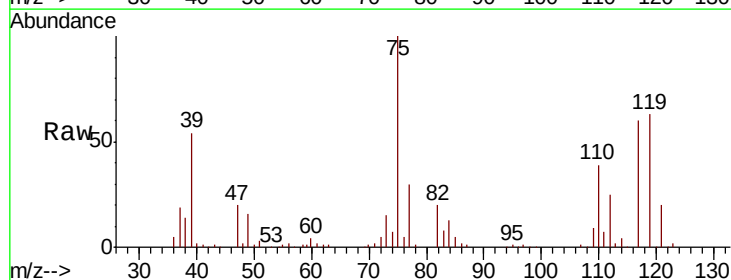
Tgt Ion: 75 Resp: 143500

Ion Ratio Lower Upper

75 100

110 37.7 18.2 54.6

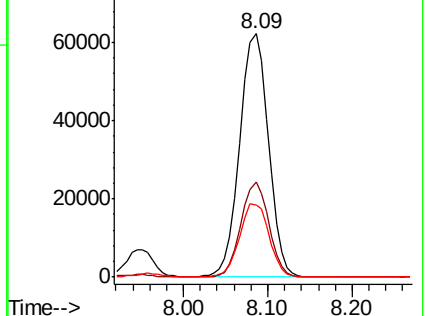
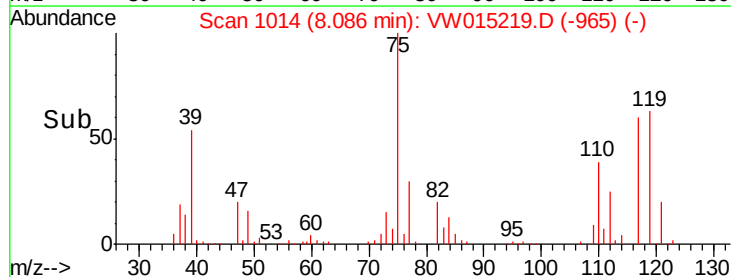
77 31.0 24.5 36.7

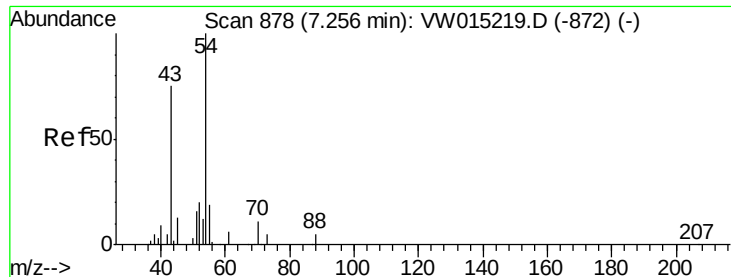


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

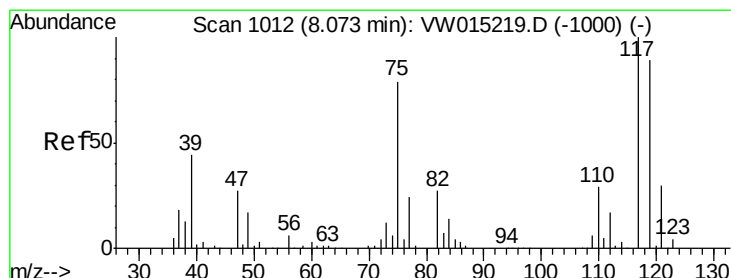
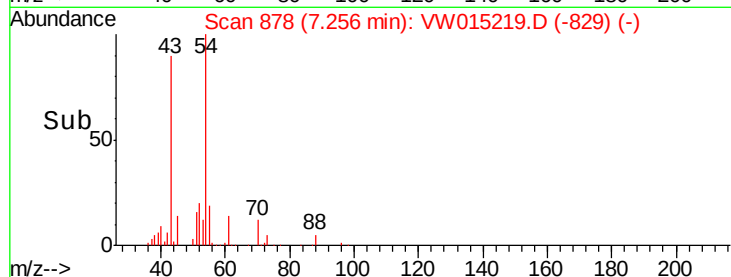
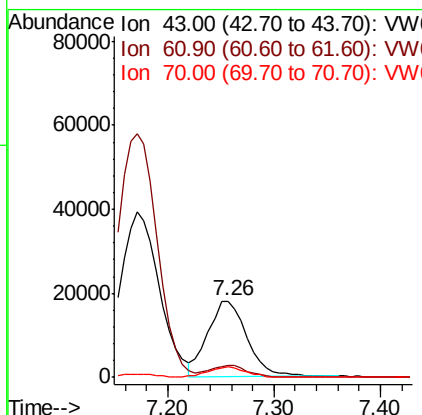
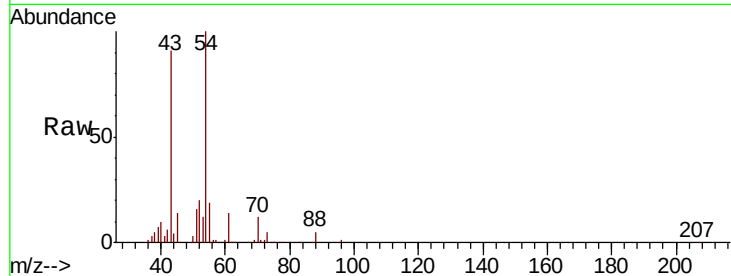




#37  
Ethyl Acetate  
Concen: 37.250 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

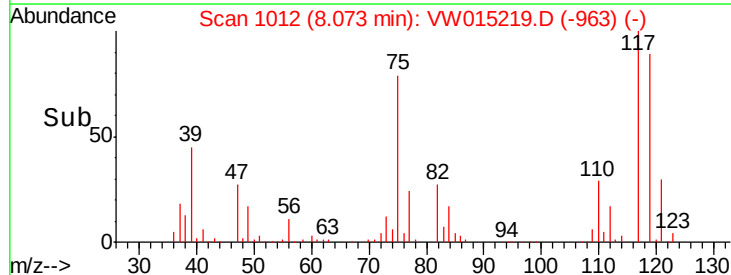
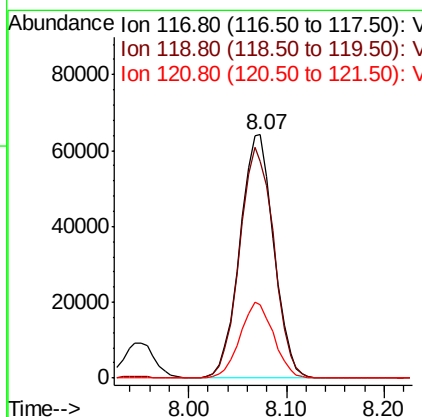
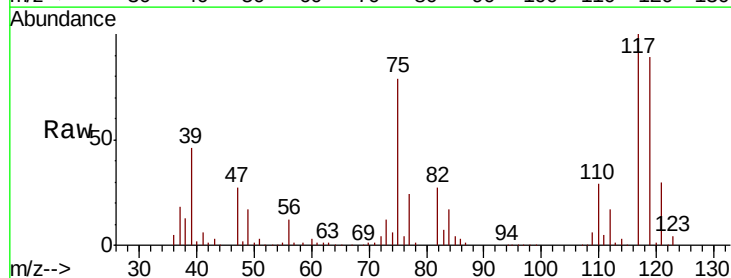
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

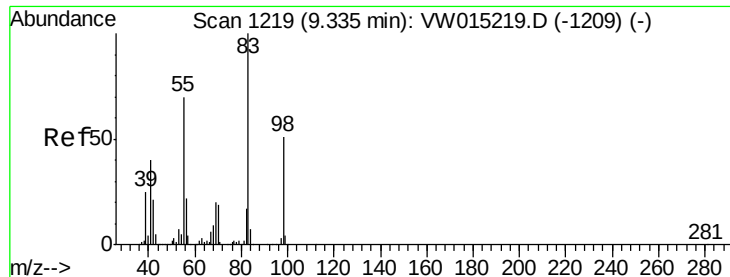
Tot Ion: 43 Resp: 45575  
Ion Ratio Lower Upper  
43 100  
61 15.8 11.9 17.9  
70 13.8 8.8 13.2#



#38  
Carbon Tetrachloride  
Concen: 57.125 ug/l  
RT: 8.07 min Scan# 1012  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 117 Resp: 154393  
Ion Ratio Lower Upper  
117 100  
119 89.3 72.3 108.5  
121 30.2 23.7 35.5

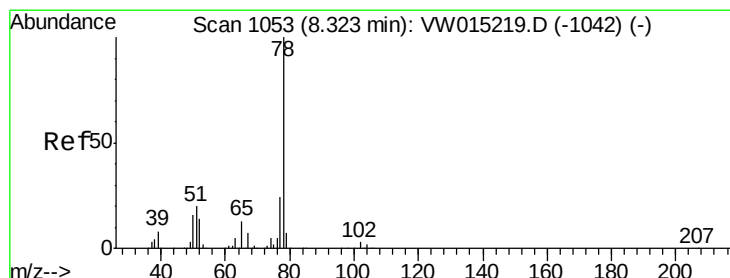
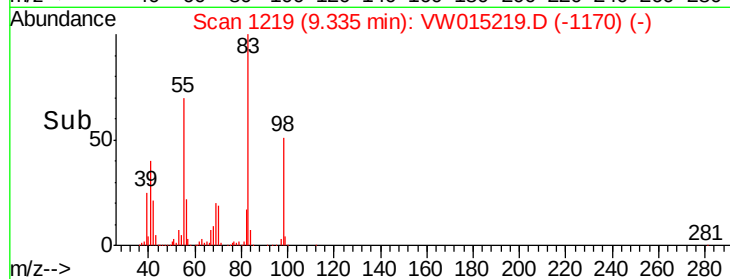
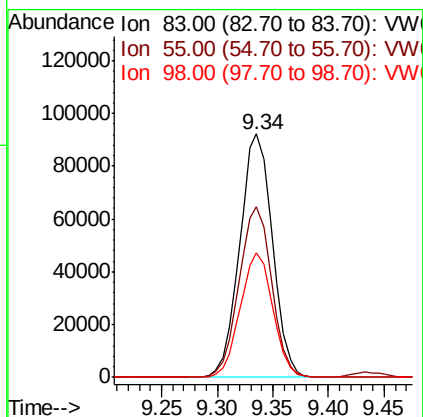
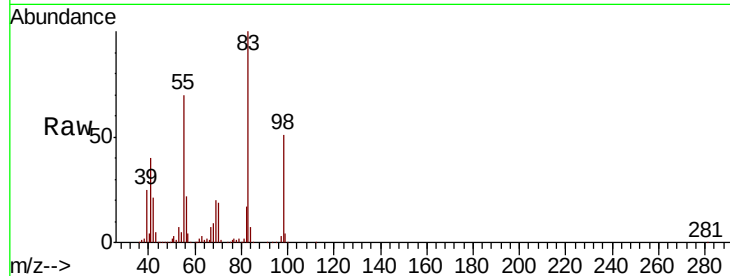




#39  
Methylvlcyclohexane  
Concen: 47.705 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

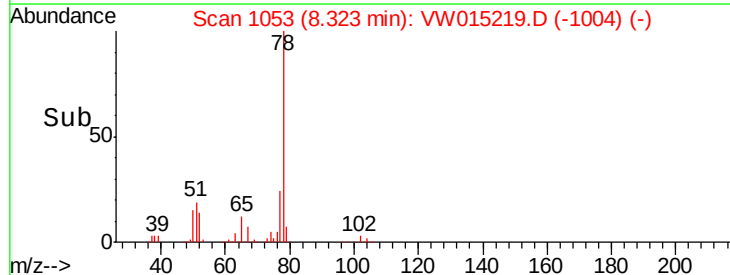
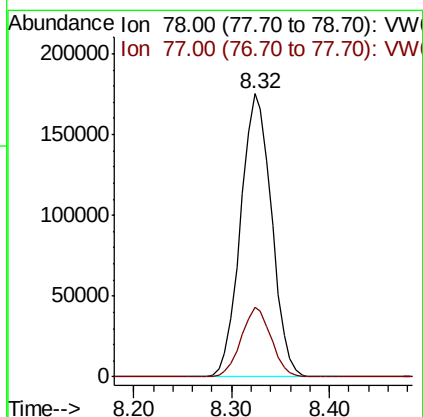
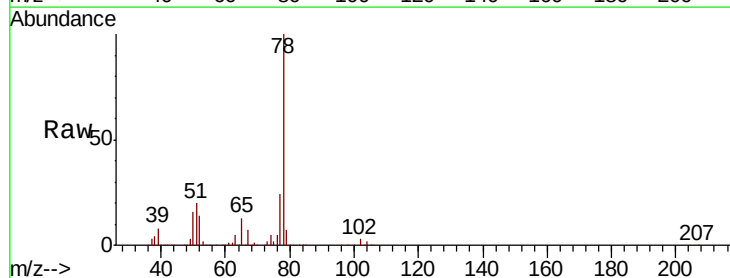
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

Tot Ion: 83 Resp: 188453  
Ion Ratio Lower Upper  
83 100  
55 70.1 58.1 87.1  
98 51.1 40.2 60.4

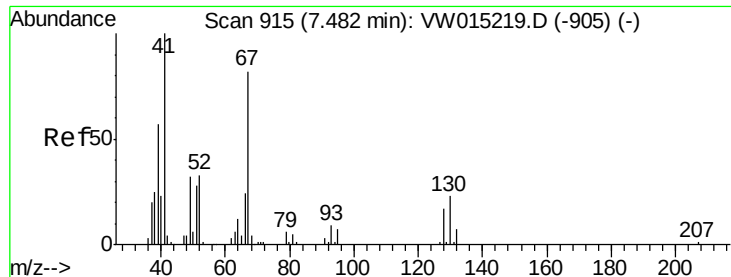


#40  
Benzene  
Concen: 46.226 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 78 Resp: 385871  
Ion Ratio Lower Upper  
78 100  
77 24.5 18.2 27.2



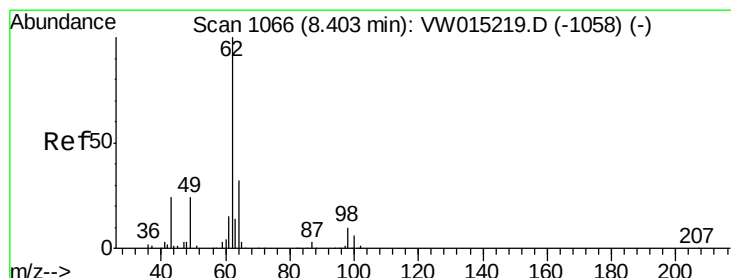
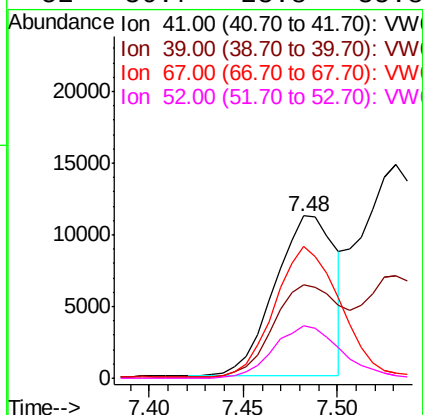
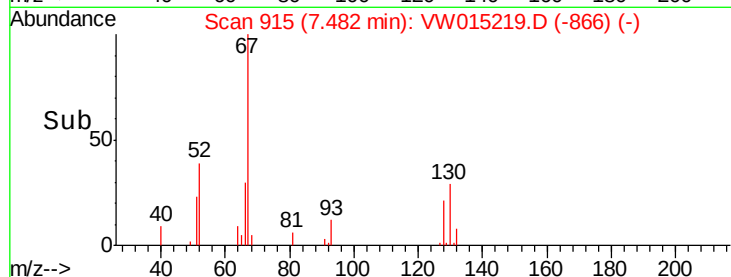
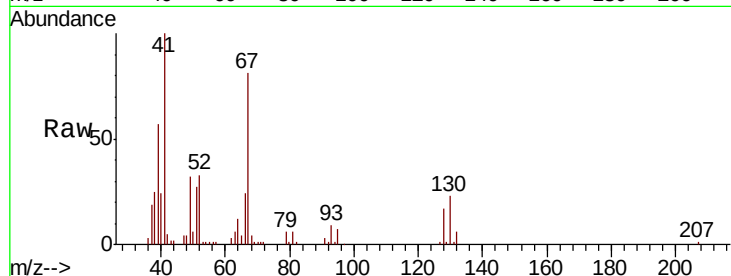




#41  
Methacrylonitrile  
Concen: 34.564 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

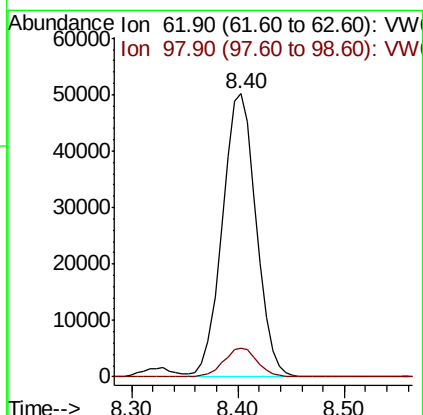
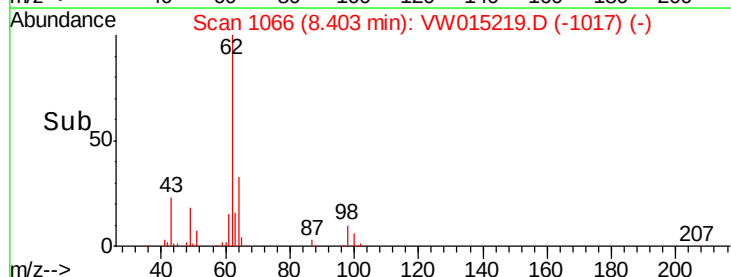
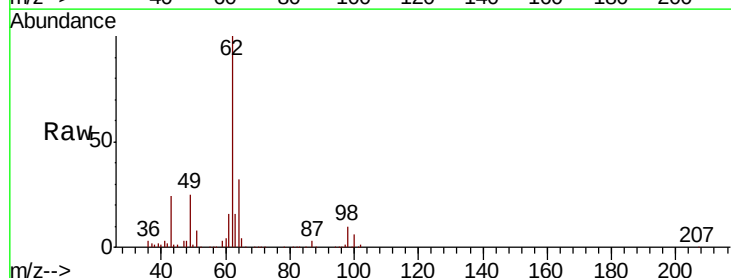
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

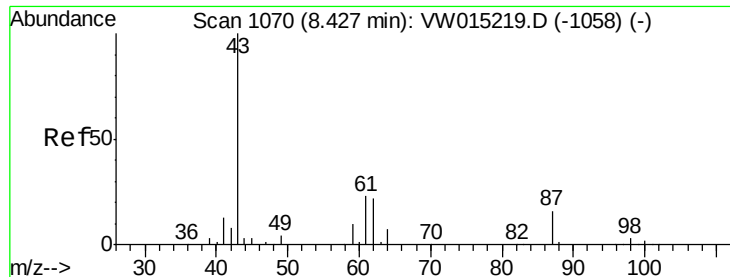
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 25022 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 65.0  | 41.9  | 62.9# |
| 67       | 88.6  | 60.6  | 91.0  |
| 52       | 36.7  | 23.8  | 35.8# |



#42  
1,2-Dichloroethane  
Concen: 52.450 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 111119 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 10.0  | 0.0   | 20.4   |





#43

Isopropyl Acetate

Concen: 40.153 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

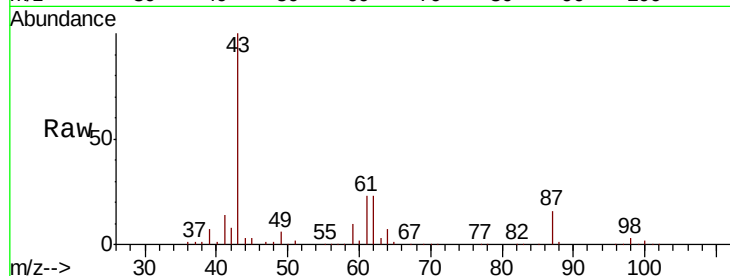
Tot Ion: 43 Resp: 96004

Ion Ratio Lower Upper

43 100

61 33.7 24.8 37.2

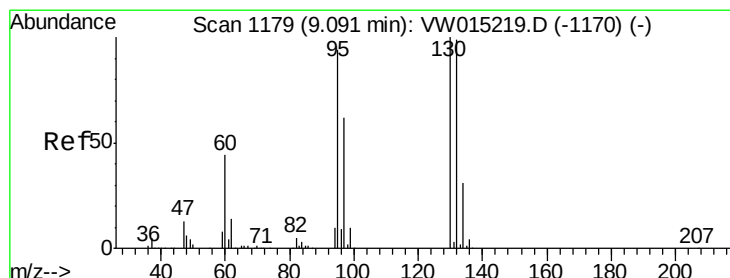
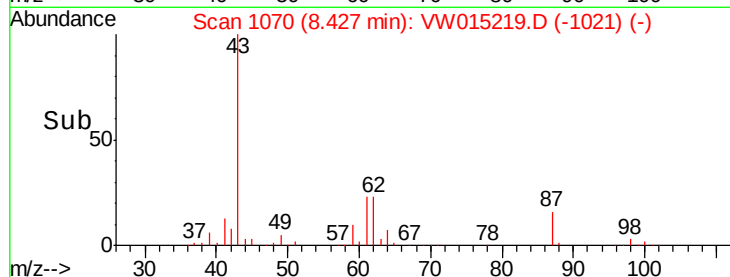
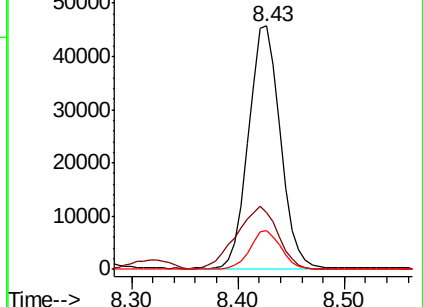
87 15.6 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 53.464 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW015219.D

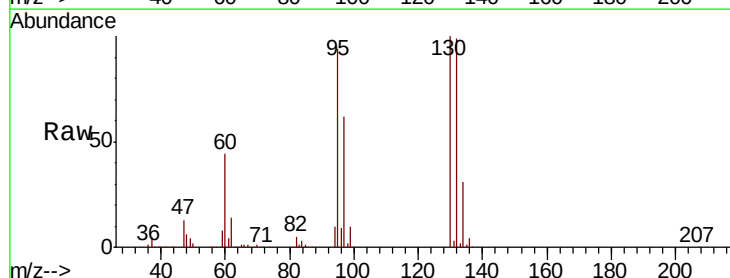
Acq: 20 Apr 2020 13:19

Tgt Ion:130 Resp: 117265

Ion Ratio Lower Upper

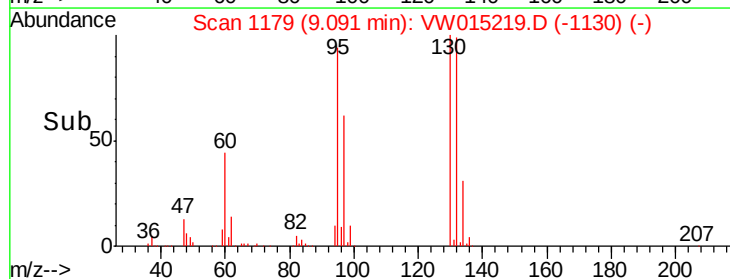
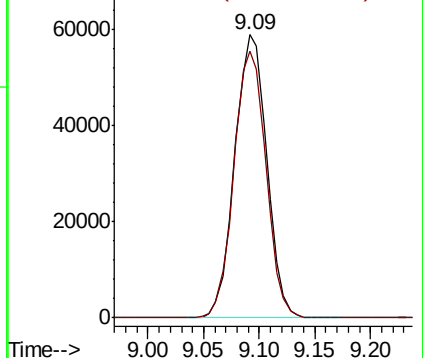
130 100

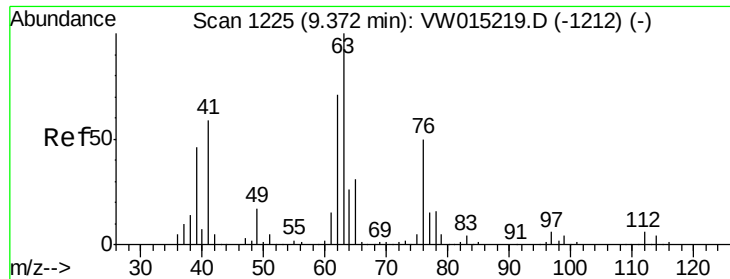
95 94.2 0.0 196.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

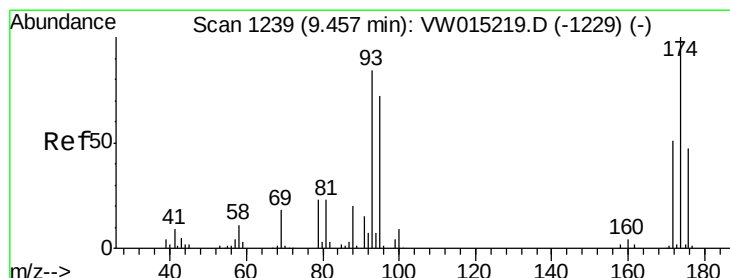
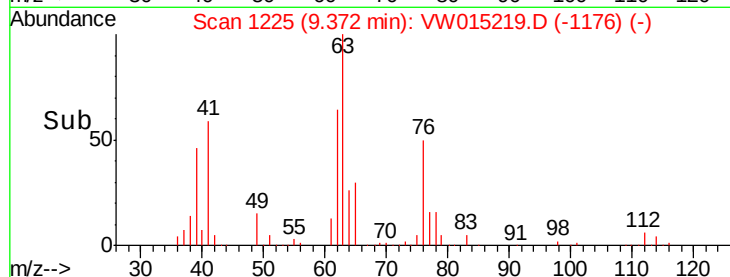
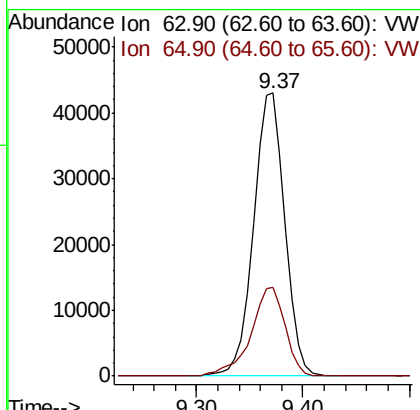
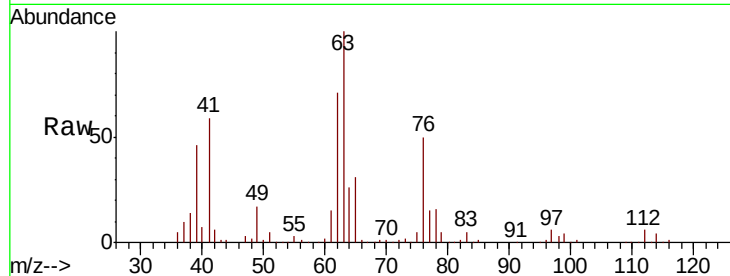




#45  
 1,2-Dichloropropane  
 Concen: 43.135 ug/l  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

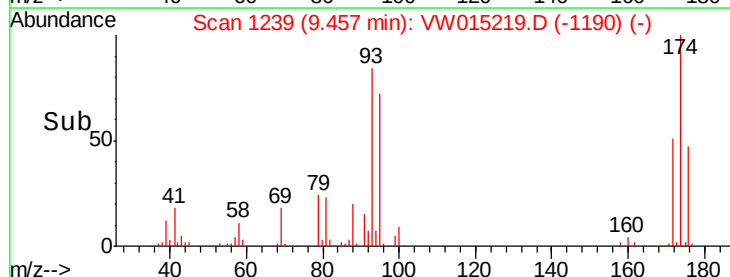
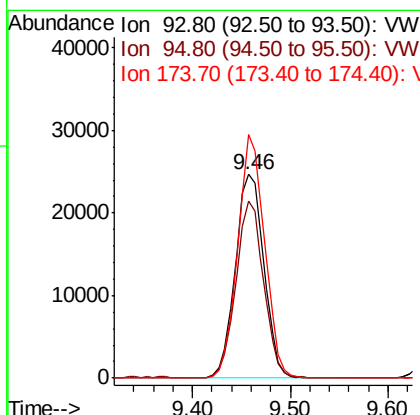
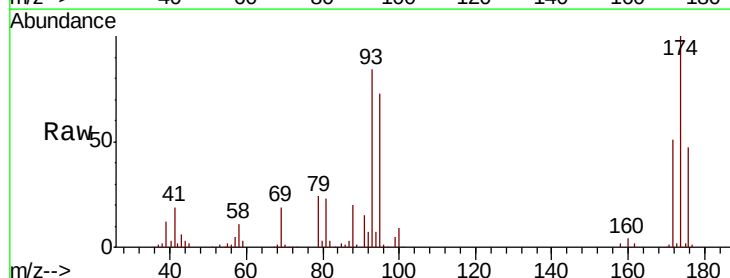
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

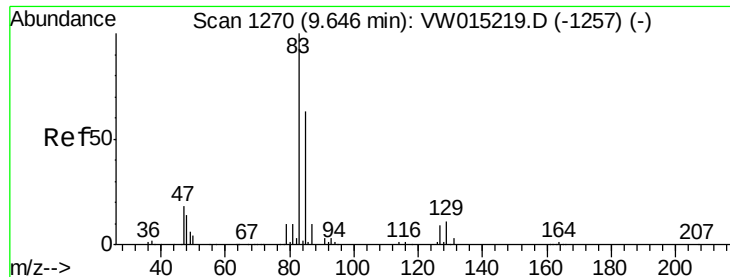
Tot Ion: 63 Resp: 88588  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 25.5 38.3



#46  
 Dibromomethane  
 Concen: 48.904 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Tgt Ion: 93 Resp: 50195  
 Ion Ratio Lower Upper  
 93 100  
 95 84.0 67.5 101.3  
 174 111.8 74.1 111.1#





#47

Bromodichloromethane

Concen: 51.104 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

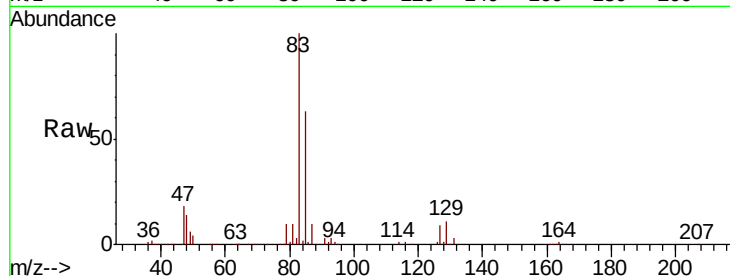
Tot Ion: 83 Resp: 135998

Ion Ratio Lower Upper

83 100

85 62.7 50.6 76.0

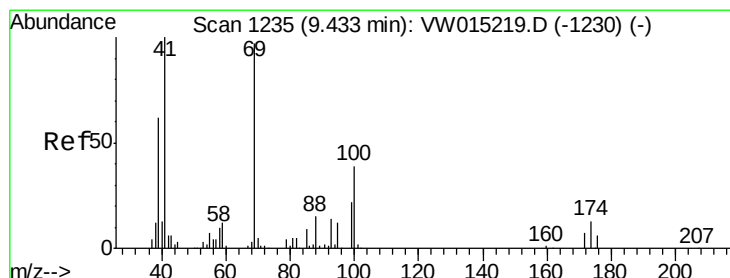
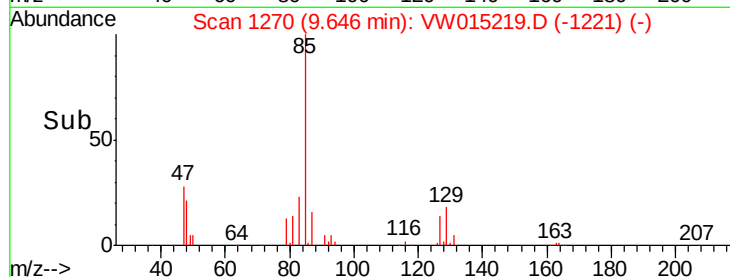
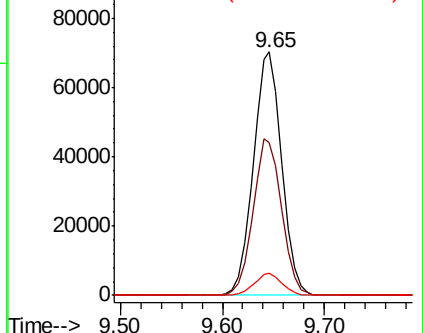
127 8.9 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 42.437 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

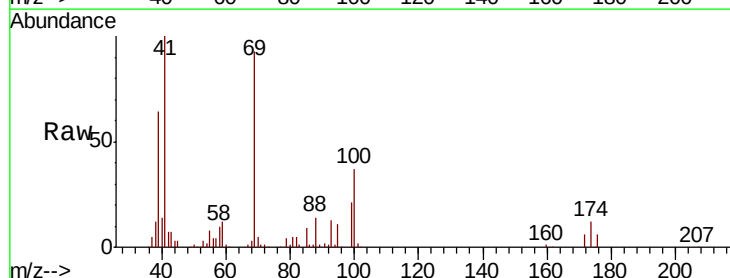
Tgt Ion: 41 Resp: 47459

Ion Ratio Lower Upper

41 100

69 94.1 70.6 105.8

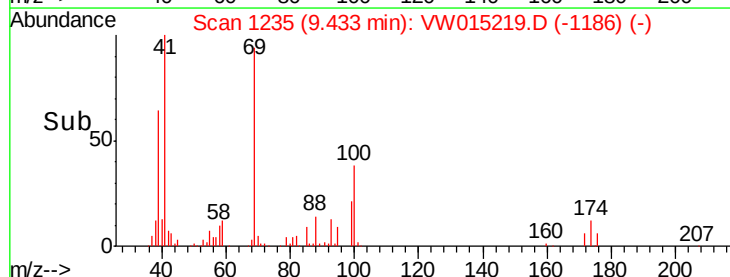
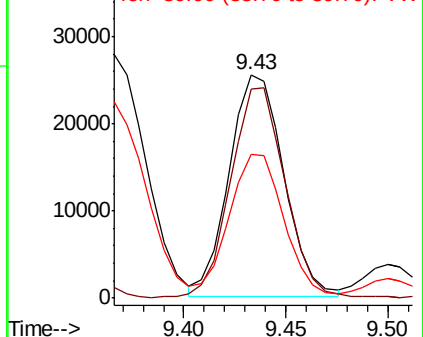
39 61.1 42.6 64.0

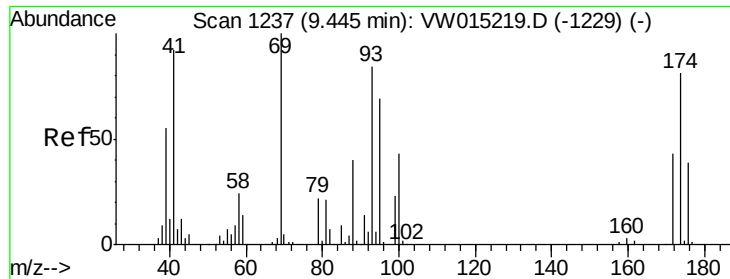


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 883.579 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

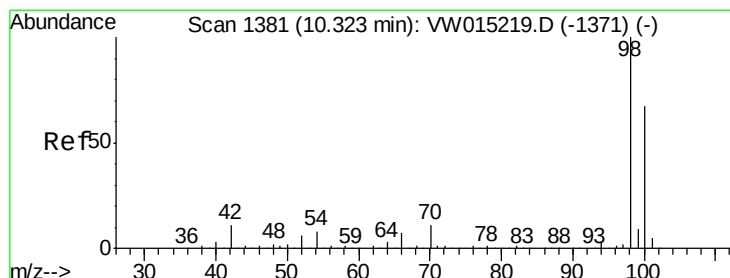
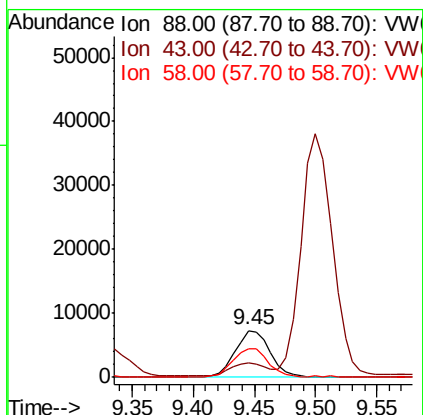
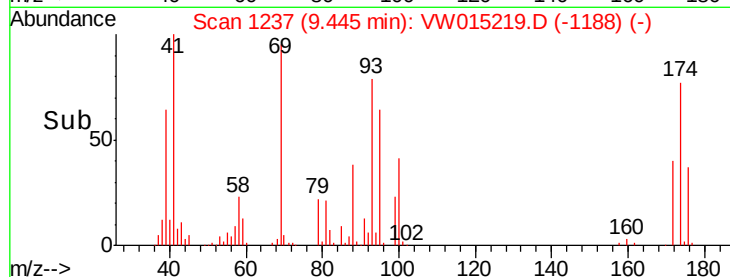
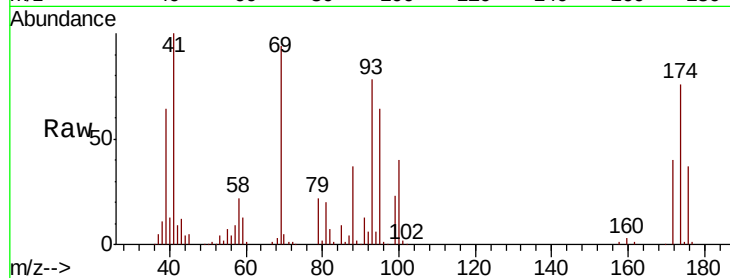
Tot Ion: 88 Resp: 14388

Ion Ratio Lower Upper

88 100

43 29.7 23.5 35.3

58 63.9 55.4 83.2



#50

Toluene-d8

Concen: 53.130 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW015219.D

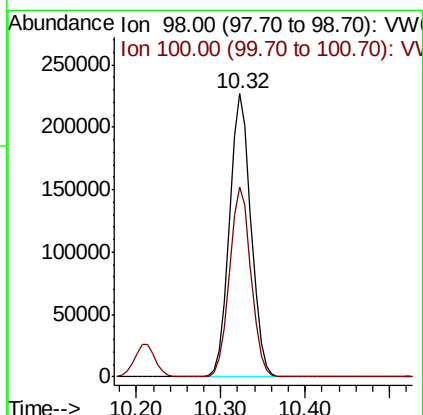
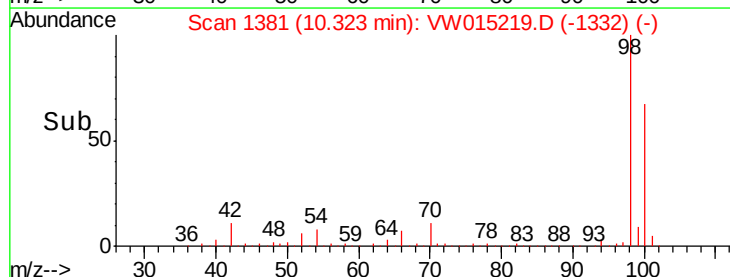
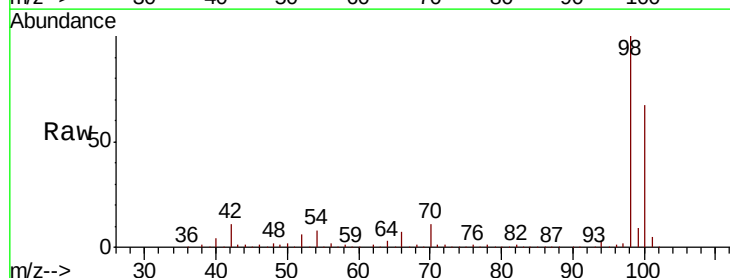
Acq: 20 Apr 2020 13:19

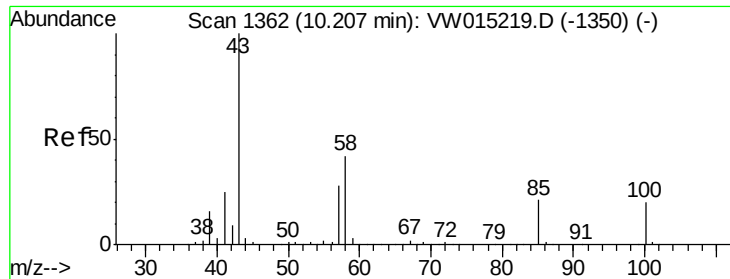
Tgt Ion: 98 Resp: 392752

Ion Ratio Lower Upper

98 100

100 66.9 52.9 79.3

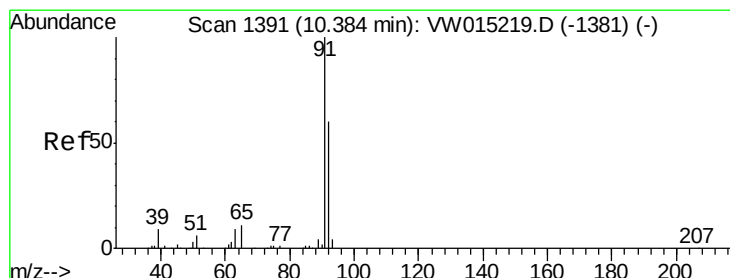
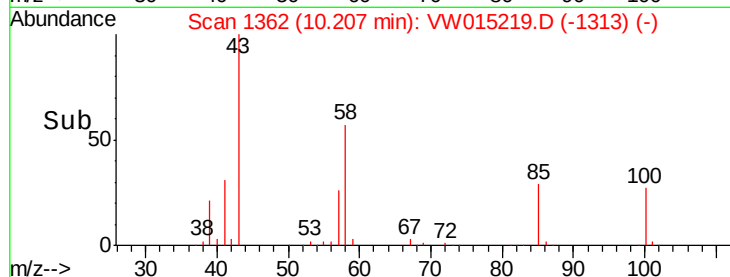
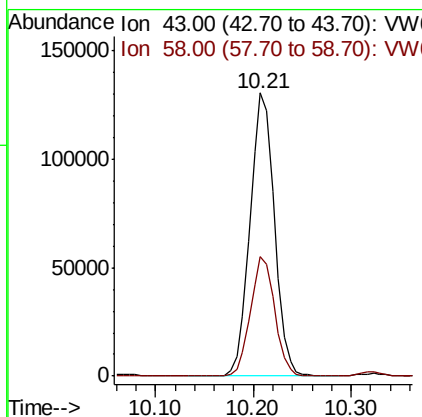
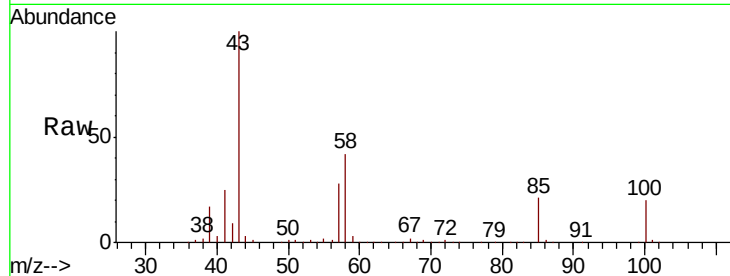




#51  
4-Methyl-2-Pentanone  
Concen: 178.067 ug/l  
RT: 10.21 min Scan# 1362  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

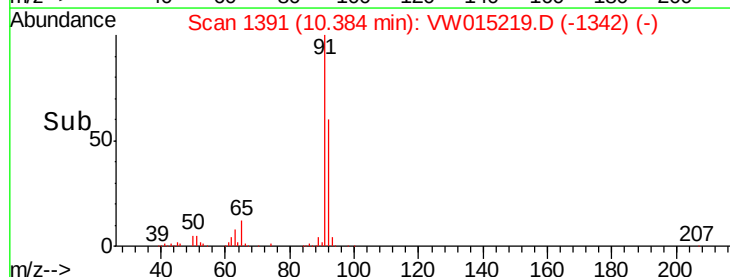
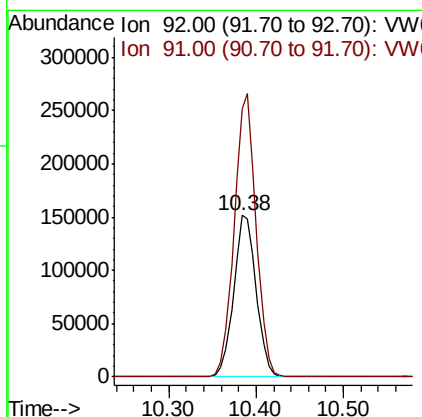
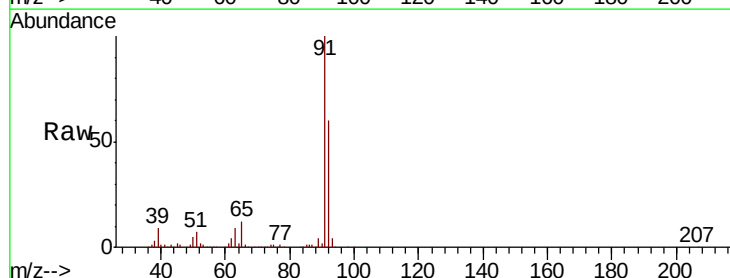
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTDICCC050

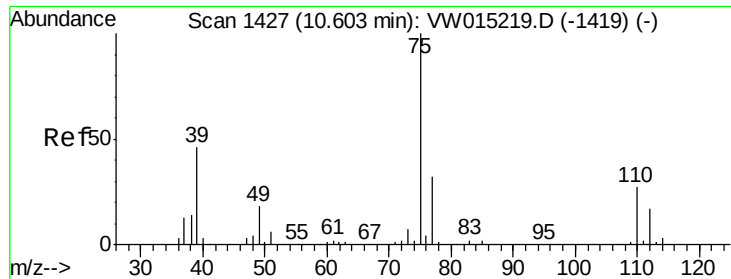
Tot Ion: 43 Resp: 225180  
Ion Ratio Lower Upper  
43 100  
58 42.1 32.3 48.5



#52  
Toluene  
Concen: 50.612 ug/l  
RT: 10.38 min Scan# 1391  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 92 Resp: 270422  
Ion Ratio Lower Upper  
92 100  
91 170.9 137.1 205.7

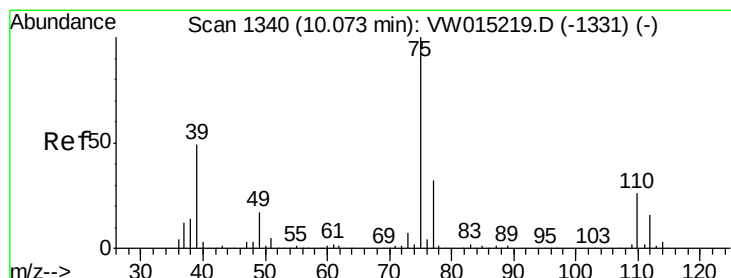
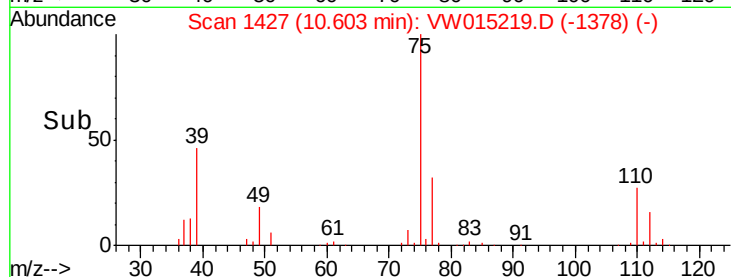
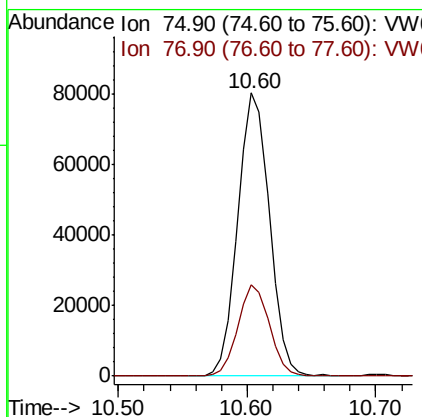
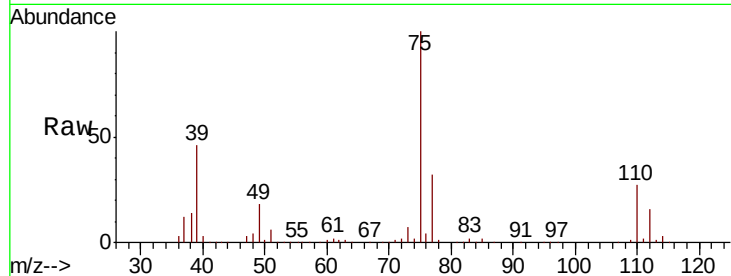




#53  
 t-1,3-Dichloropropene  
 Concen: 50.470 ug/l  
 RT: 10.60 min Scan# 1427  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

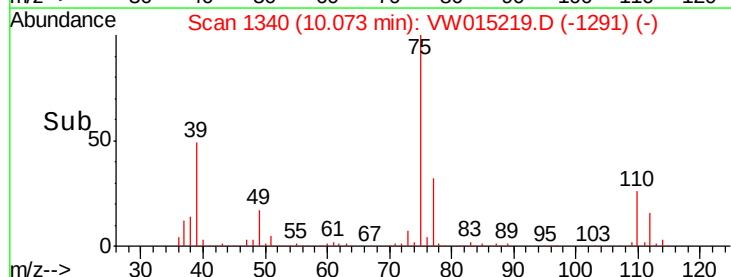
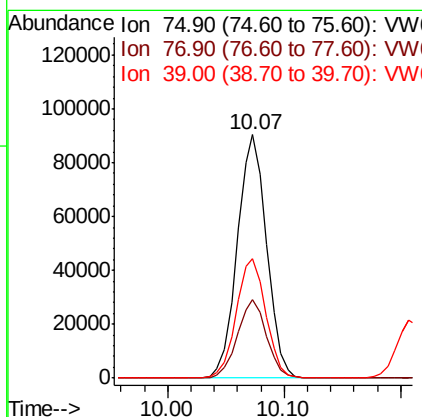
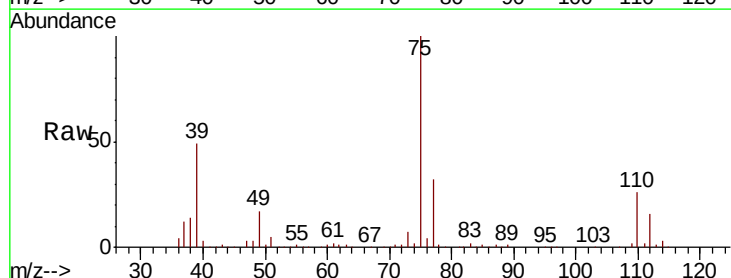
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

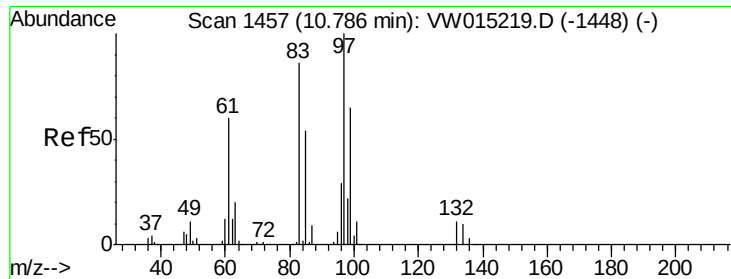
Tot Ion: 75 Resp: 136648  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 25.5 38.3



#54  
 cis-1,3-Dichloropropene  
 Concen: 48.380 ug/l  
 RT: 10.07 min Scan# 1340  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Tgt Ion: 75 Resp: 158027  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 26.6 39.8  
 39 49.0 37.8 56.6

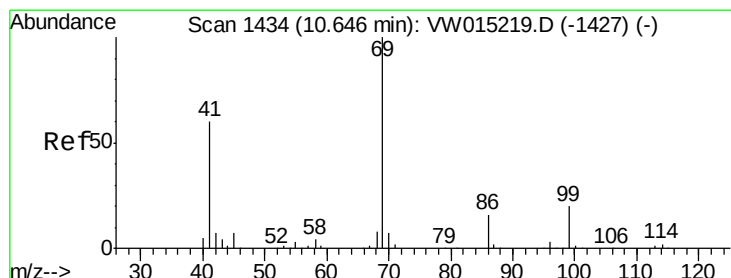
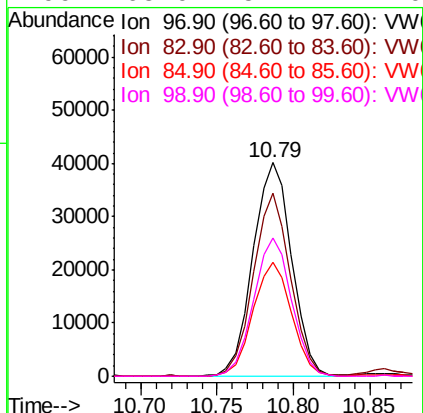
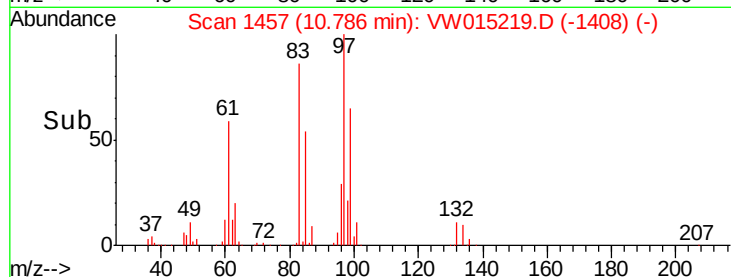
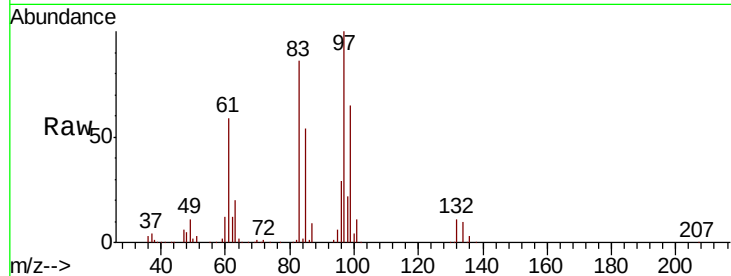




#55  
 1,1,2-Trichloroethane  
 Concen: 48.590 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

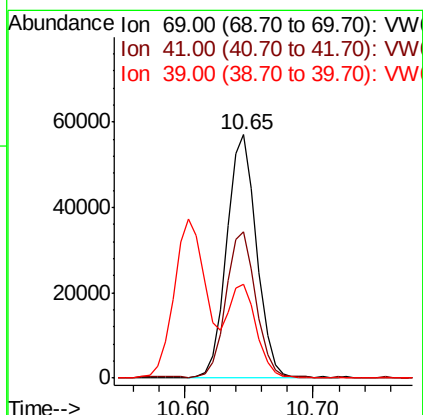
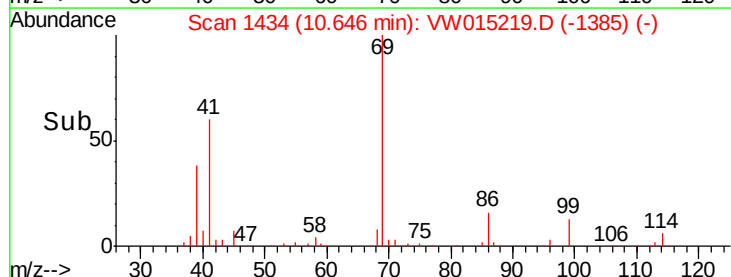
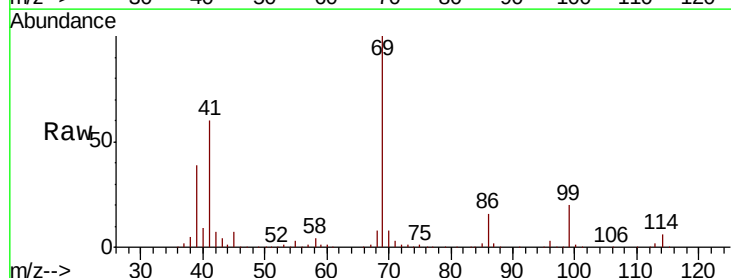
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 70666 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 85.6  | 67.3  | 100.9 |
| 85       | 53.7  | 43.8  | 65.8  |
| 99       | 65.0  | 51.4  | 77.0  |

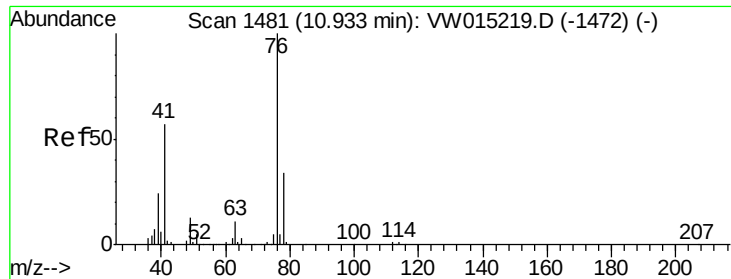


#56  
 Ethyl methacrylate  
 Concen: 46.123 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 92434 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 59.5  | 51.3  | 76.9  |
| 39       | 35.7  | 24.6  | 37.0  |



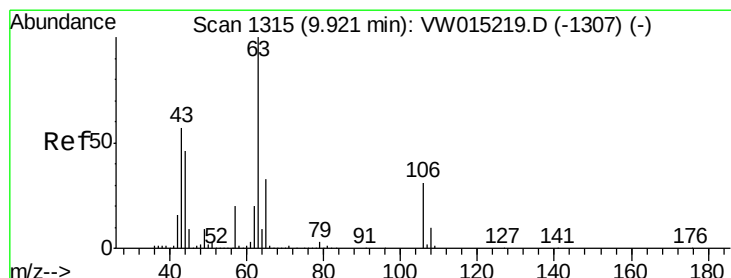
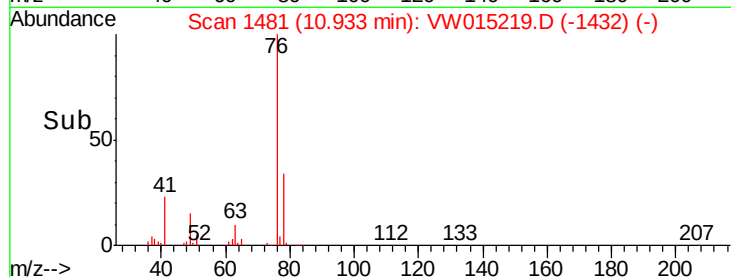
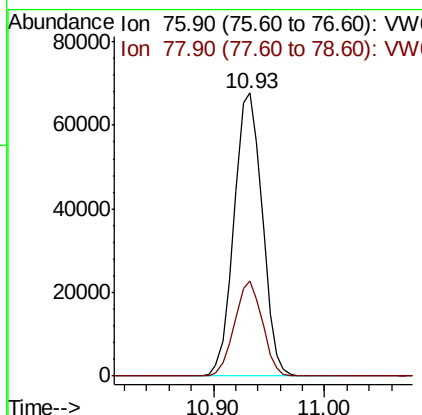
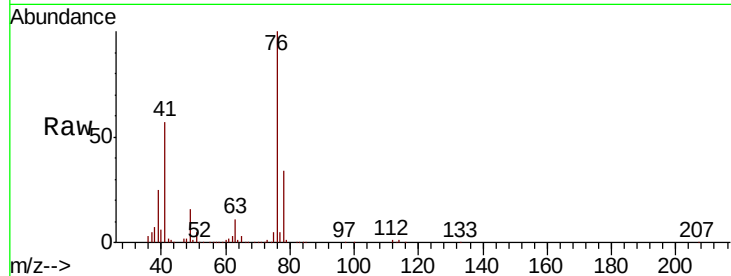




#57  
 1,3-Dichloropropane  
 Concen: 46.509 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

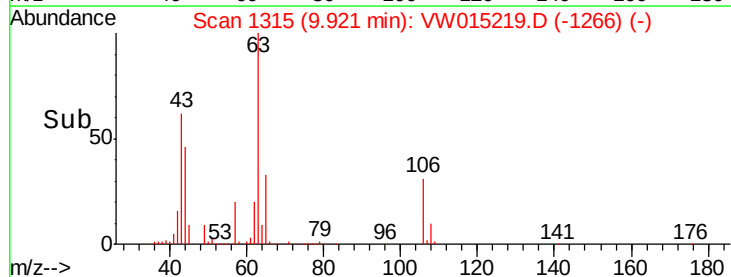
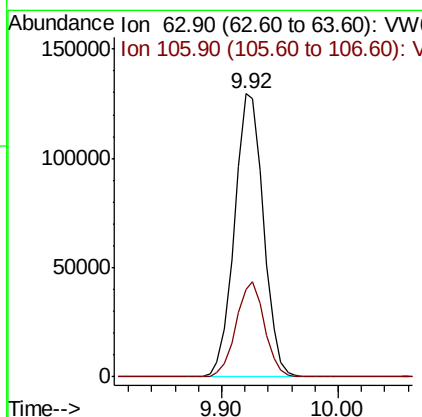
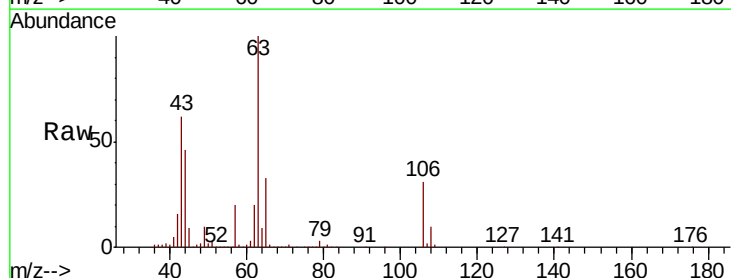
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

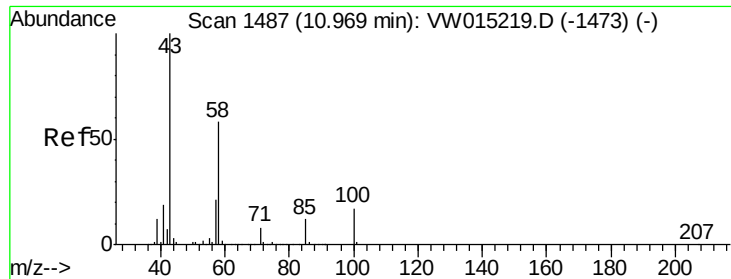
Tot Ion: 76 Resp: 118884  
 Ion Ratio Lower Upper  
 76 100  
 78 32.9 26.2 39.4



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 227.002 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Tgt Ion: 63 Resp: 225155  
 Ion Ratio Lower Upper  
 63 100  
 106 32.9 22.6 33.8

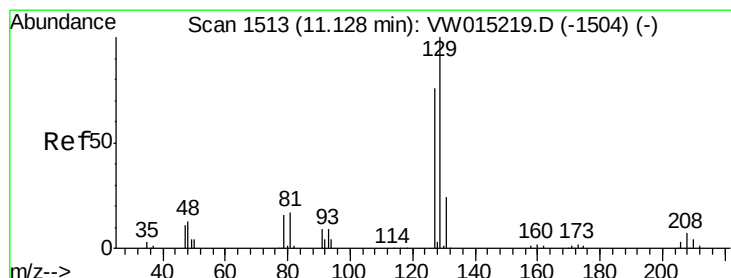
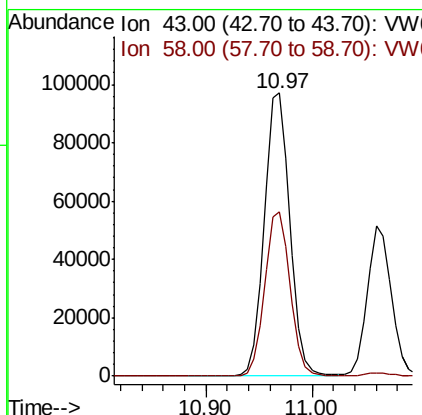
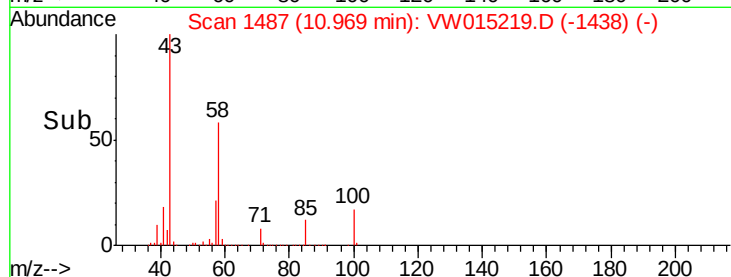
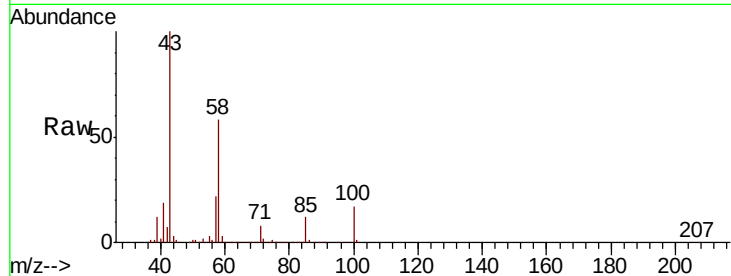




#59  
2-Hexanone  
Concen: 204.775 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

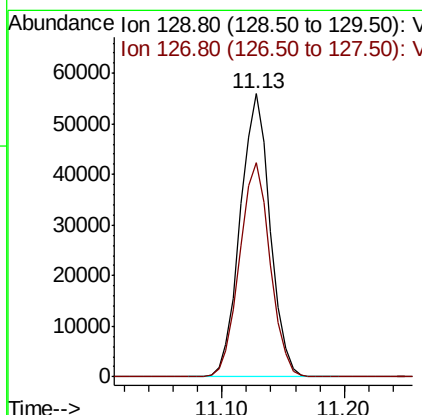
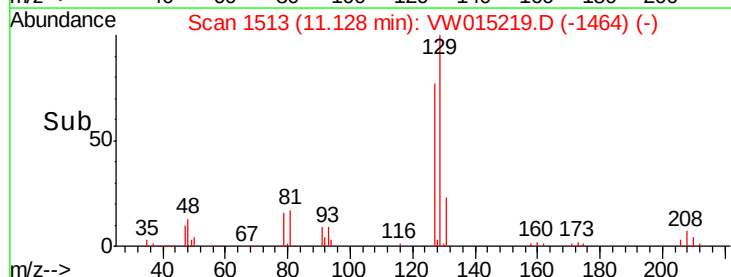
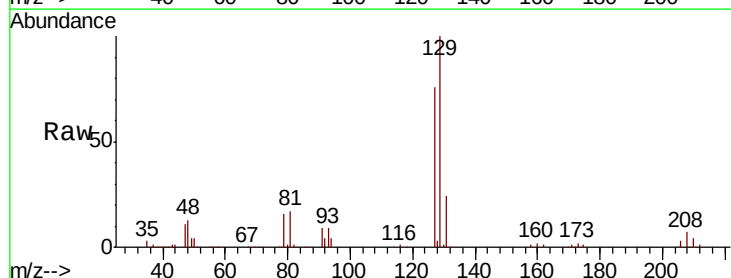
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

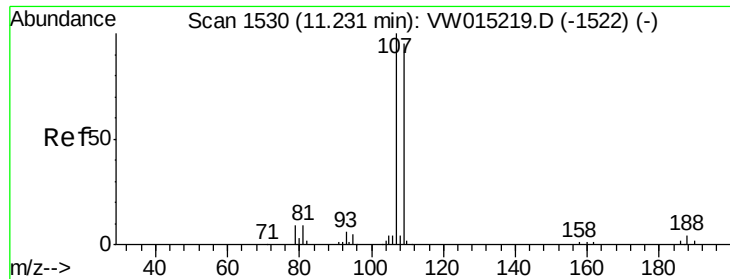
Tot Ion: 43 Resp: 162521  
Ion Ratio Lower Upper  
43 100  
58 57.9 28.1 84.3



#60  
Dibromochloromethane  
Concen: 54.551 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion:129 Resp: 94660  
Ion Ratio Lower Upper  
129 100  
127 77.3 38.3 114.8

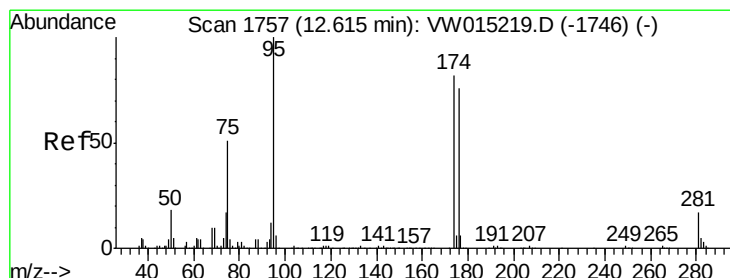
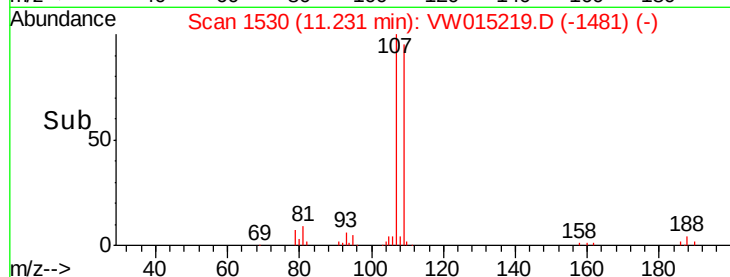
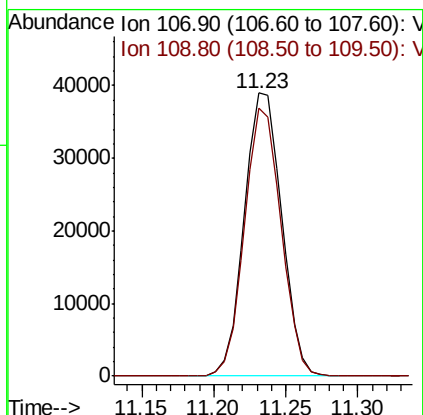
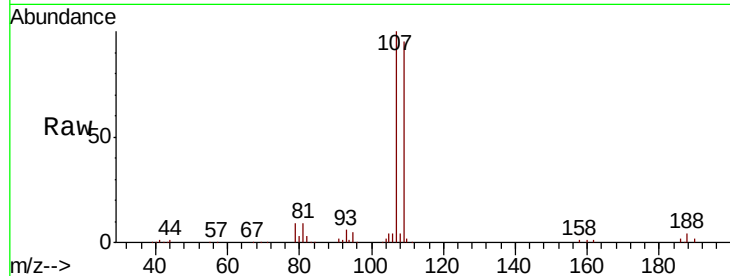




#61  
1,2-Dibromoethane  
Concen: 50.023 ug/l  
RT: 11.23 min Scan# 1530  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

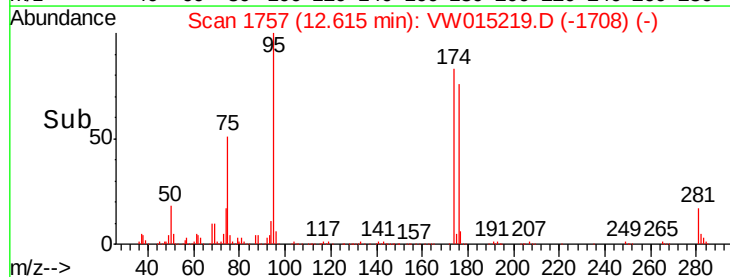
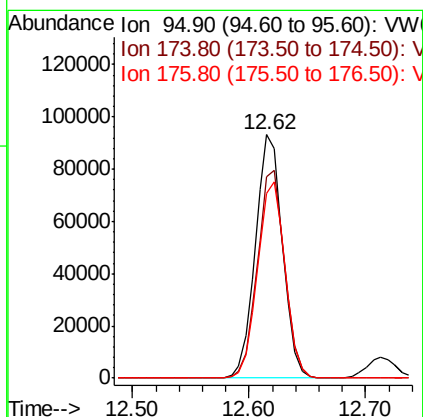
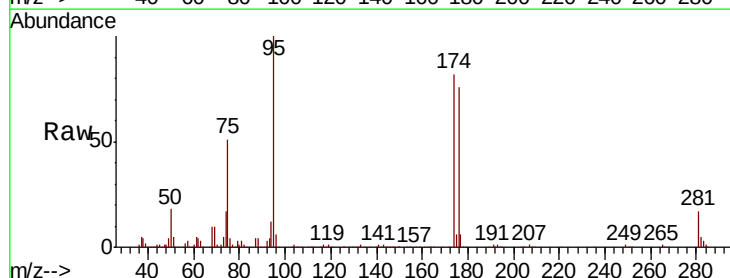
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

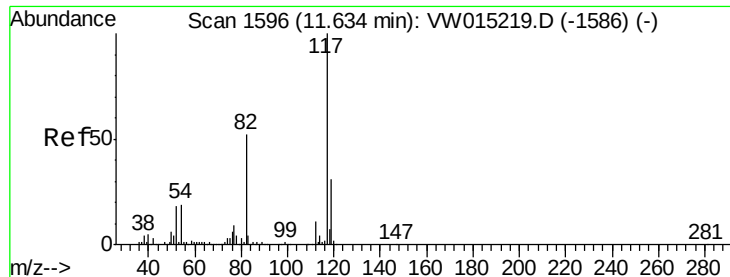
Tot Ion: 107 Resp: 70112  
Ion Ratio Lower Upper  
107 100  
109 92.9 74.3 111.5



#62  
4-Bromofluorobenzene  
Concen: 58.398 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 95 Resp: 151198  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 144.4  
176 82.2 0.0 140.6

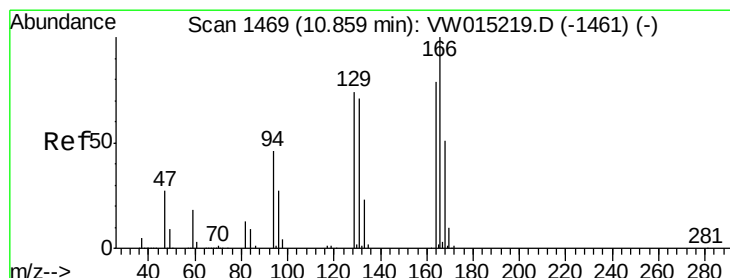
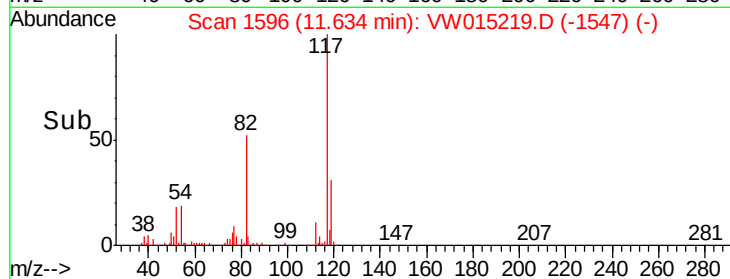
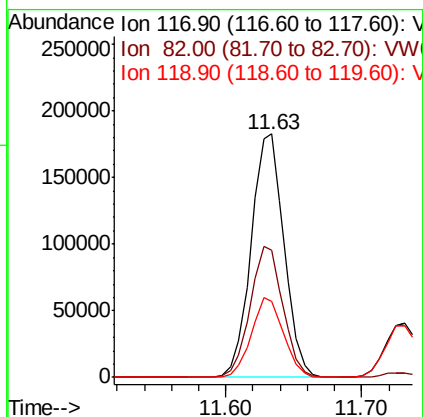
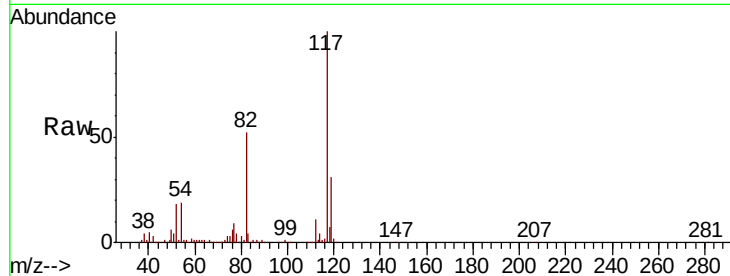




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

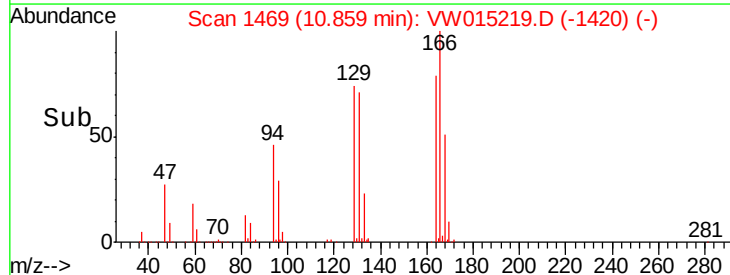
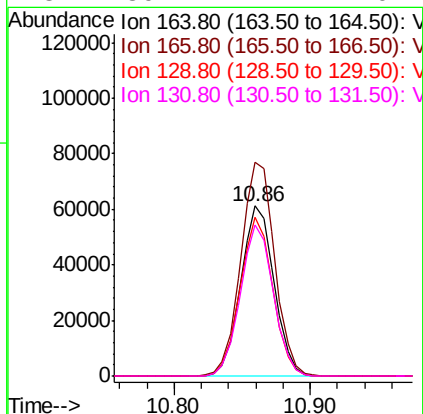
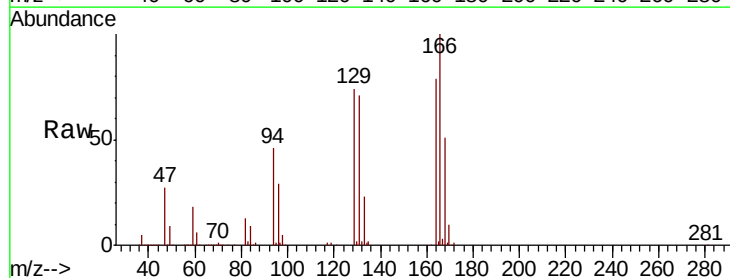
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

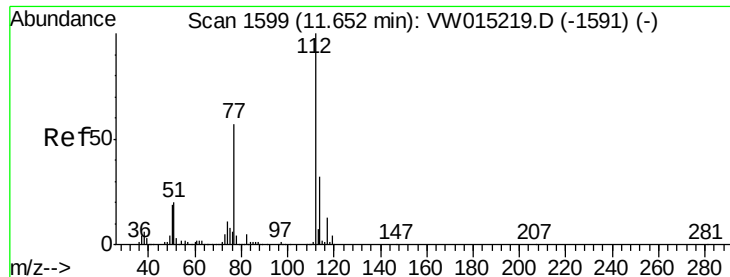
Tot Ion:117 Resp: 309764  
Ion Ratio Lower Upper  
117 100  
82 52.0 44.1 66.1  
119 31.0 24.9 37.3



#64  
Tetrachloroethene  
Concen: 57.364 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion:164 Resp: 104376  
Ion Ratio Lower Upper  
164 100  
166 125.8 102.6 154.0  
129 93.6 80.2 120.2  
131 89.2 77.4 116.2

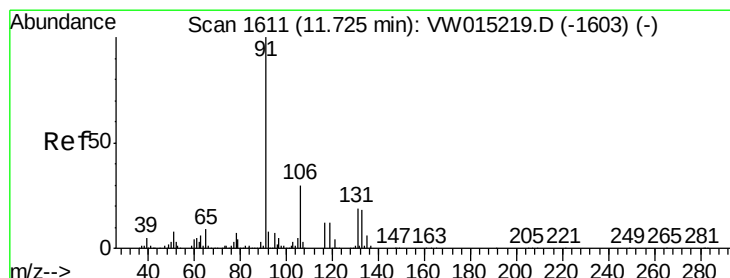
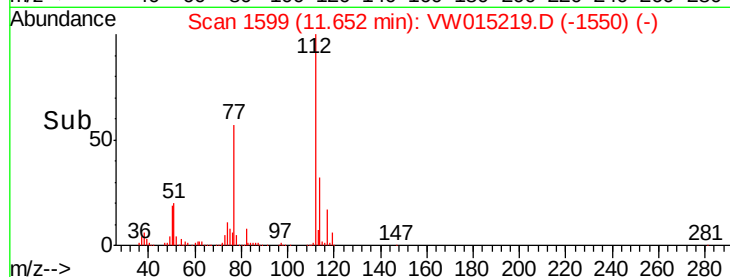
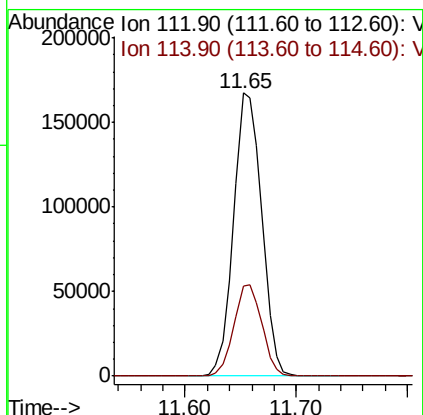
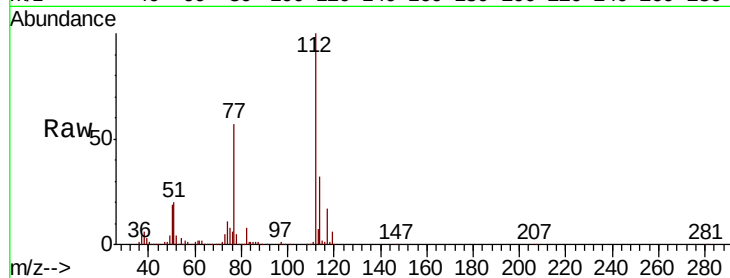




#65  
Chlorobenzene  
Concen: 50.213 ug/l  
RT: 11.65 min Scan# 1599  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

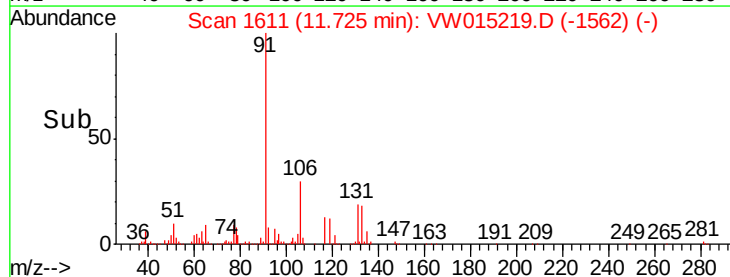
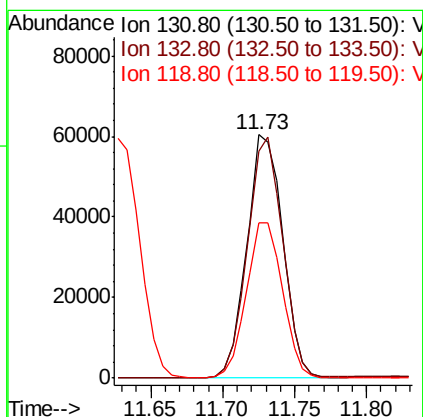
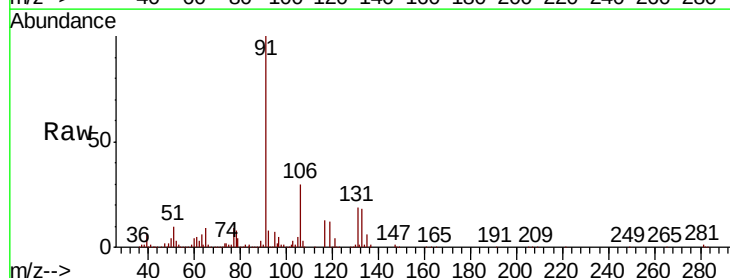
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

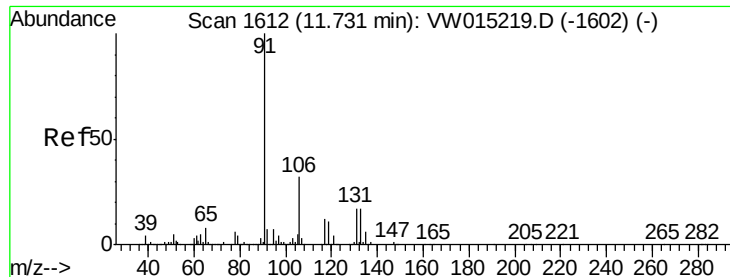
Tot Ion:112 Resp: 292674  
Ion Ratio Lower Upper  
112 100  
114 31.7 25.8 38.6



#66  
1,1,1,2-Tetrachloroethane  
Concen: 52.006 ug/l  
RT: 11.73 min Scan# 1611  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion:131 Resp: 104769  
Ion Ratio Lower Upper  
131 100  
133 96.7 47.7 143.1  
119 63.7 34.0 101.8

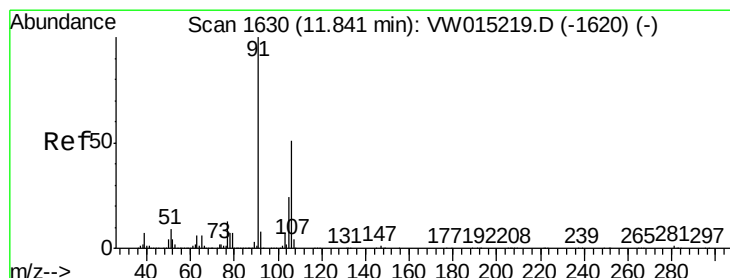
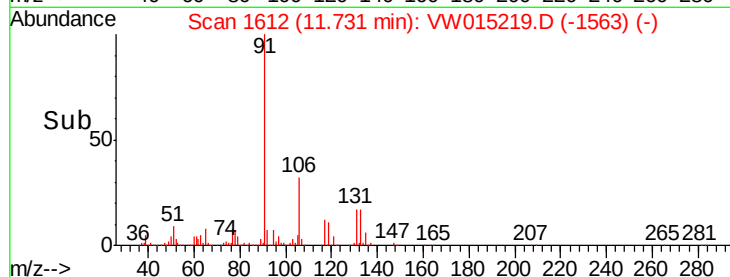
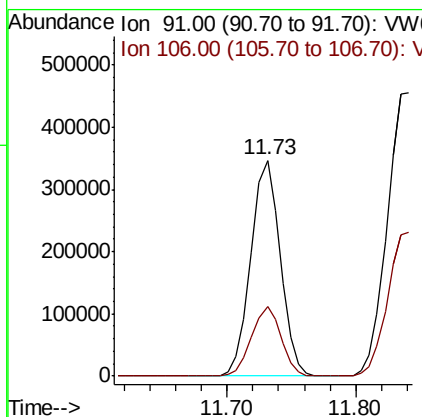
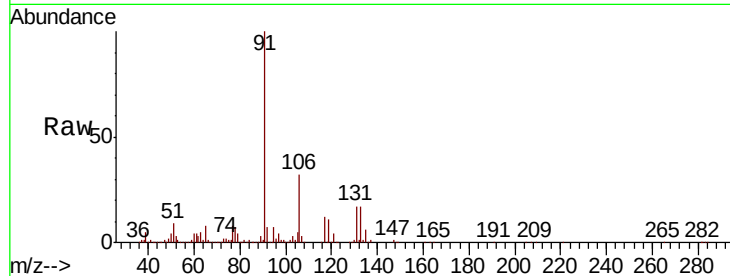




#67  
Ethyl Benzene  
Concen: 49.568 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

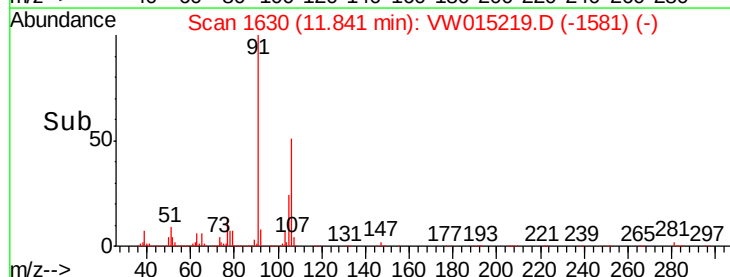
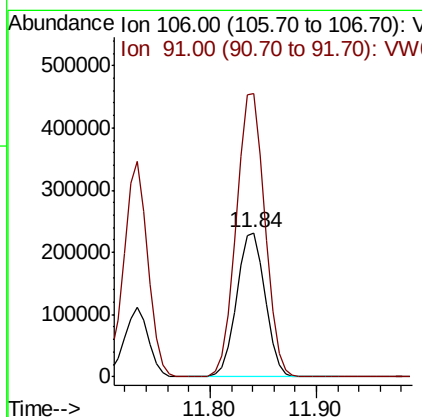
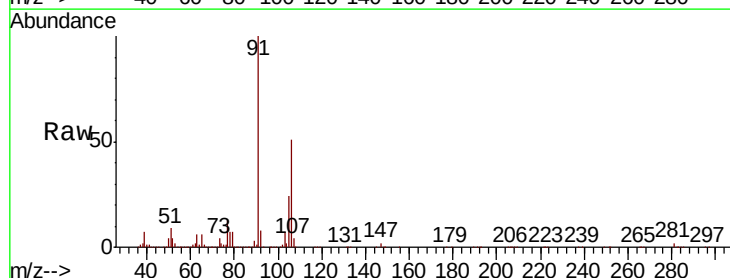
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

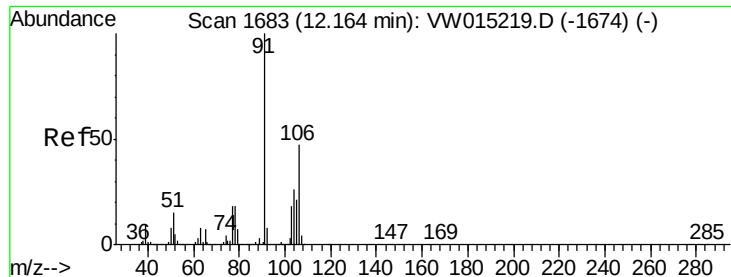
Tot Ion: 91 Resp: 545415  
Ion Ratio Lower Upper  
91 100  
106 32.1 25.7 38.5



#68  
m/p-Xylenes  
Concen: 104.341 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion: 106 Resp: 435699  
Ion Ratio Lower Upper  
106 100  
91 197.6 160.0 240.0

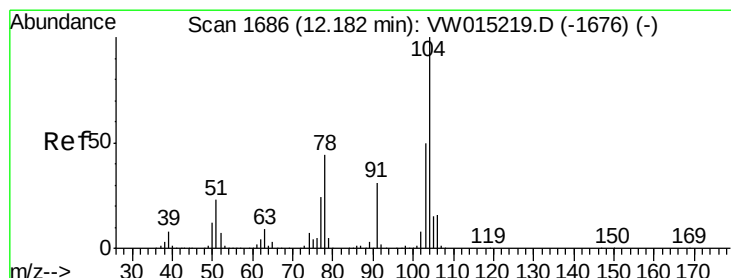
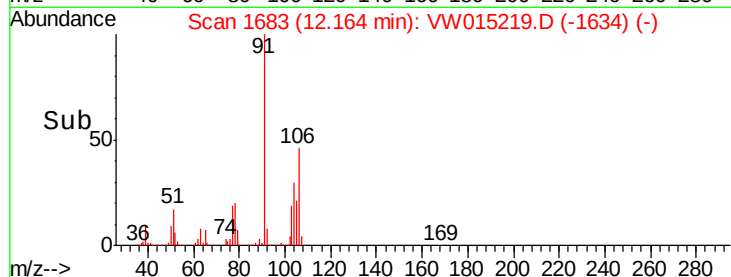
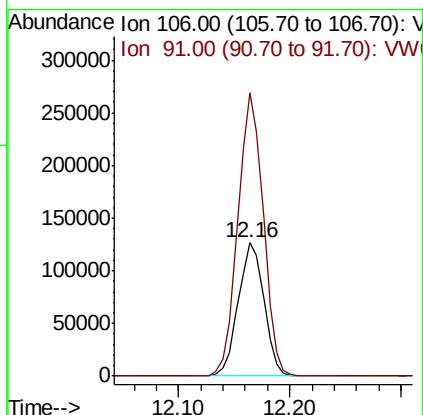
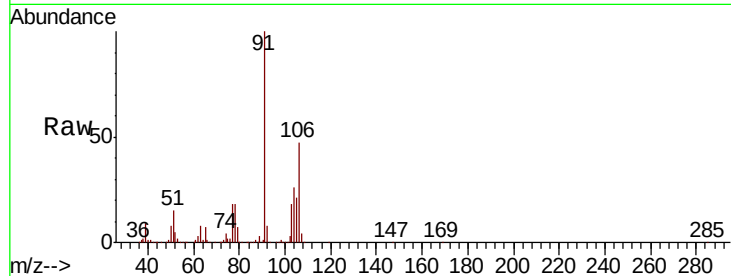




#69  
o-Xylene  
Concen: 51.785 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

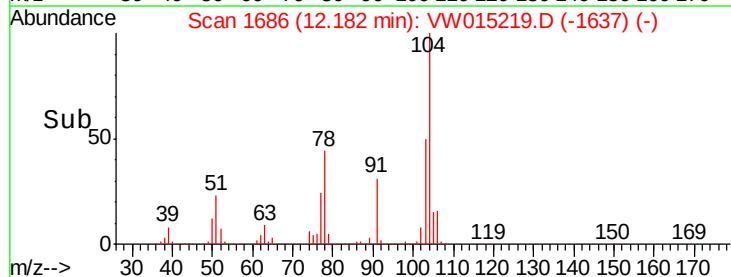
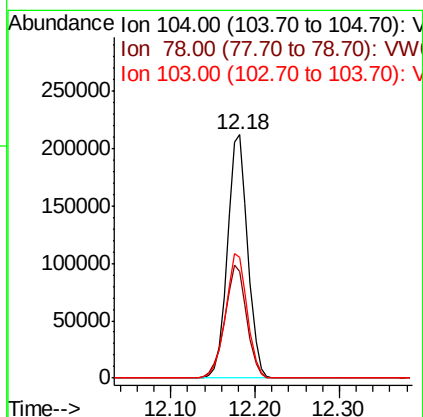
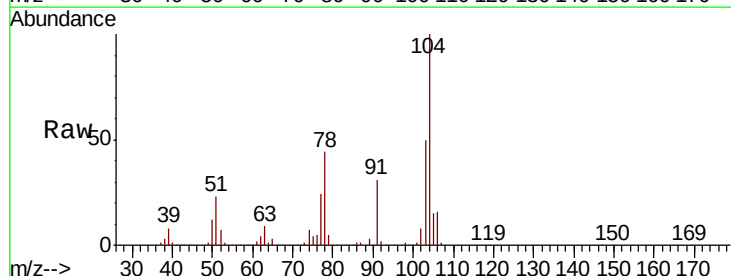
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

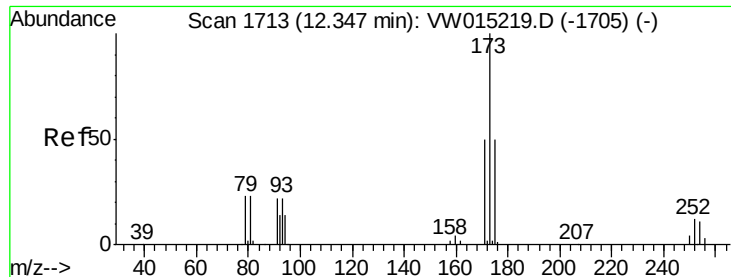
Tot Ion:106 Resp: 202679  
Ion Ratio Lower Upper  
106 100  
91 209.4 105.7 317.1



#70  
Styrene  
Concen: 52.484 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion:104 Resp: 347018  
Ion Ratio Lower Upper  
104 100  
78 49.9 39.8 59.6  
103 54.8 43.8 65.6





#71

Bromoform

Concen: 58.853 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

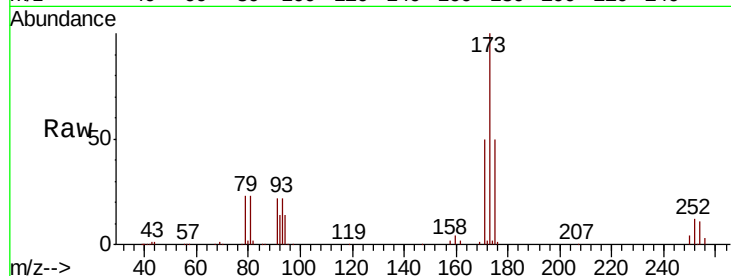
Tot Ion:173 Resp: 58881

Ion Ratio Lower Upper

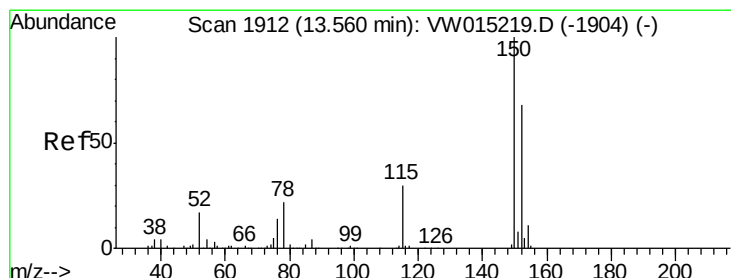
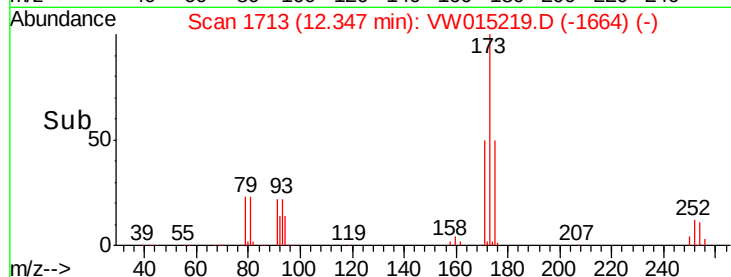
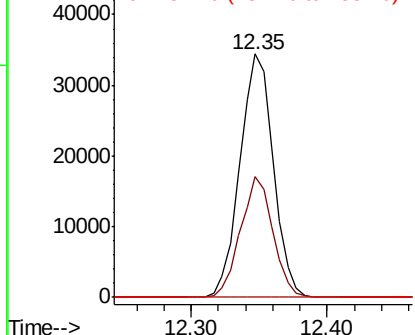
173 100

175 48.4 25.1 75.4

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

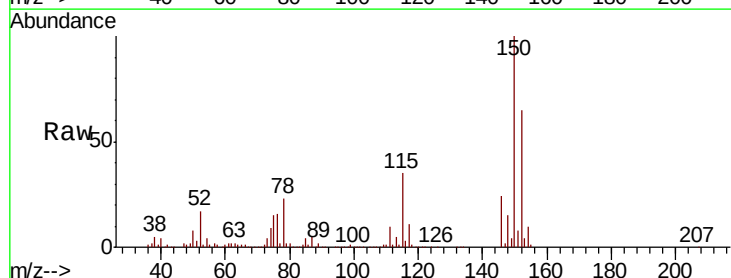
Tgt Ion:152 Resp: 173073

Ion Ratio Lower Upper

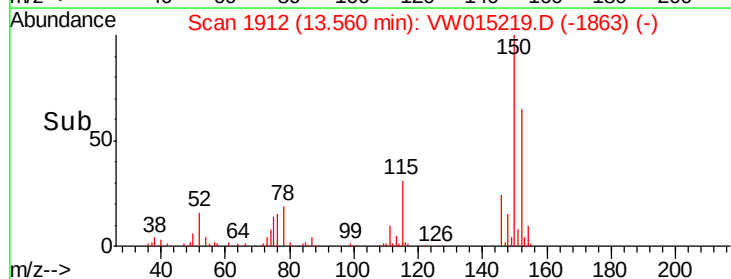
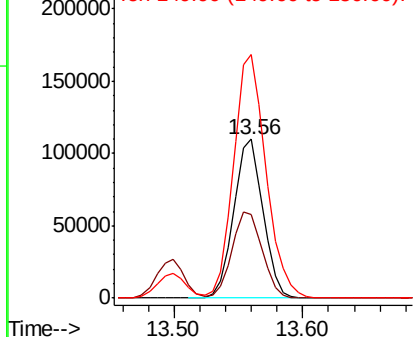
152 100

115 56.6 31.3 93.9

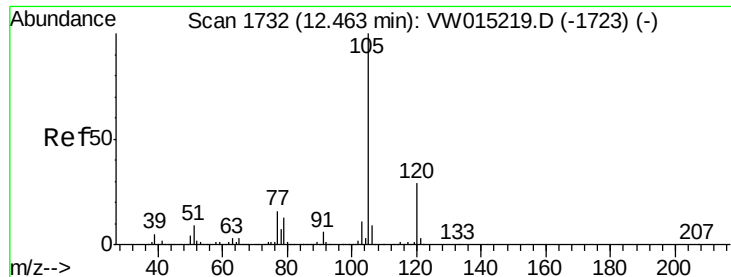
150 169.8 0.0 343.4



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







#73

Isopropylbenzene

Concen: 43.422 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

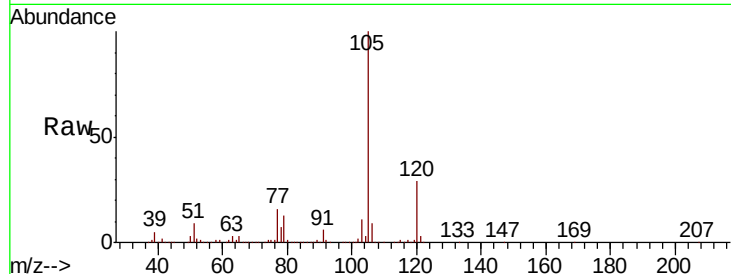
VSTDICCC050

Tot Ion:105 Resp: 560448

Ion Ratio Lower Upper

105 100

120 27.4 13.7 41.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

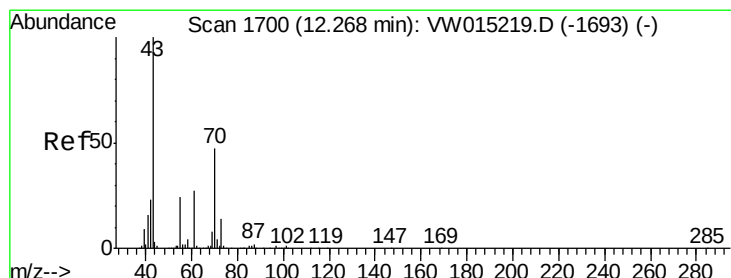
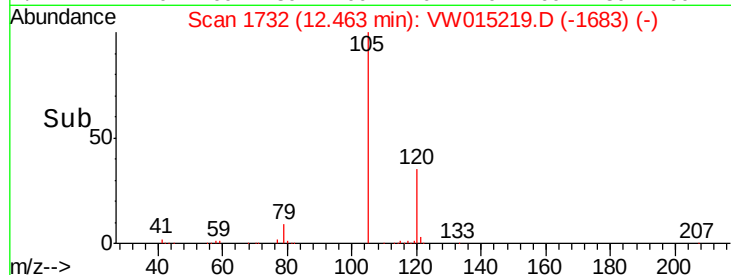
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 32.832 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Tgt Ion: 43 Resp: 98509

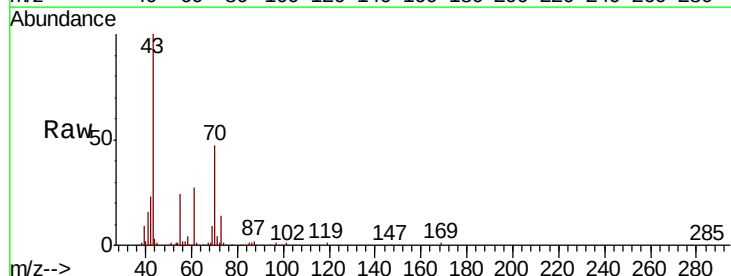
Ion Ratio Lower Upper

43 100

70 48.4 35.4 53.2

55 24.3 18.5 27.7

61 26.6 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

12.27

100000

80000

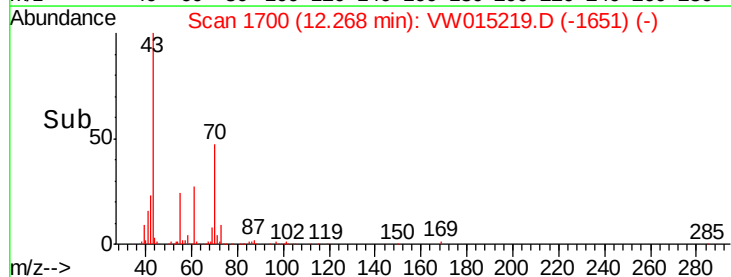
60000

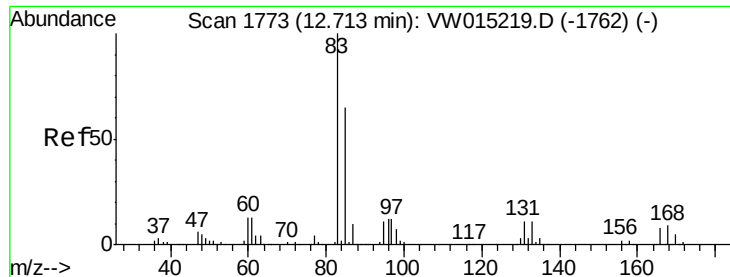
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 35.574 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

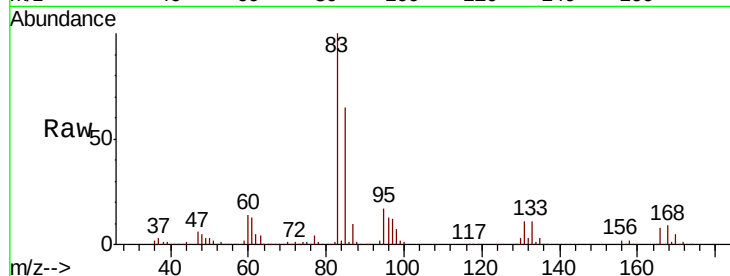
Tot Ion: 83 Resp: 76932

Ion Ratio Lower Upper

83 100

131 11.8 5.1 15.2

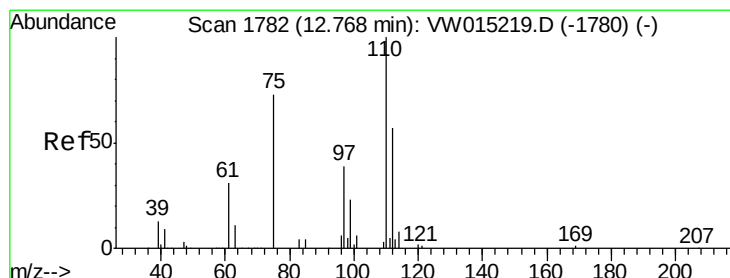
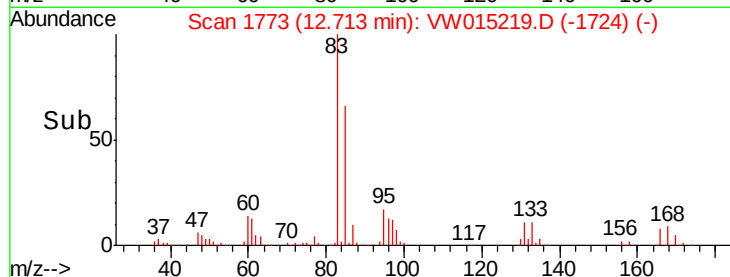
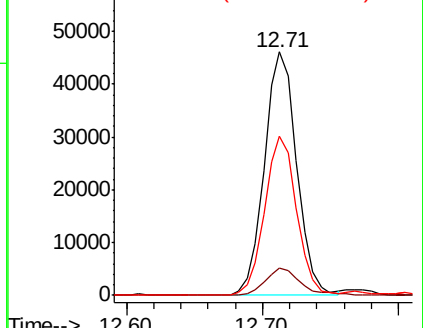
85 64.5 32.3 96.8



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 71.948 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015219.D

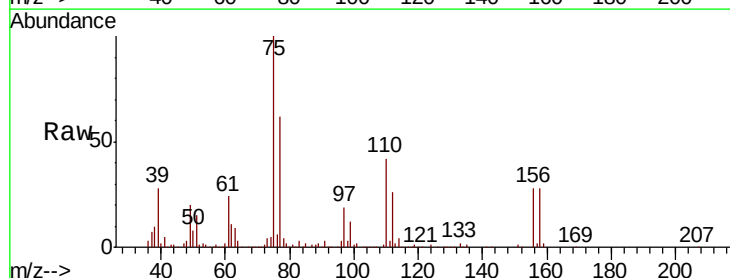
Acq: 20 Apr 2020 13:19

Tgt Ion: 75 Resp: 106596

Ion Ratio Lower Upper

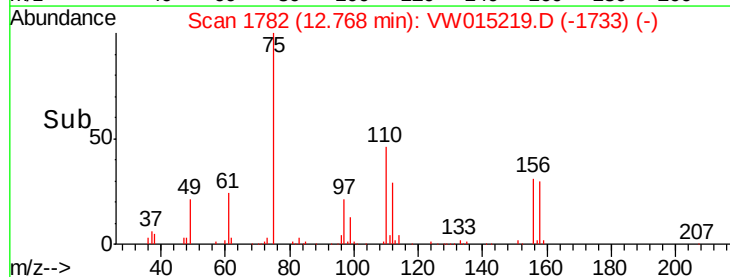
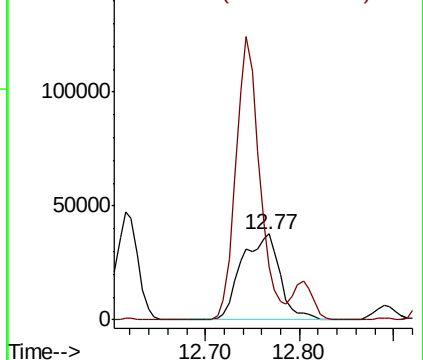
75 100

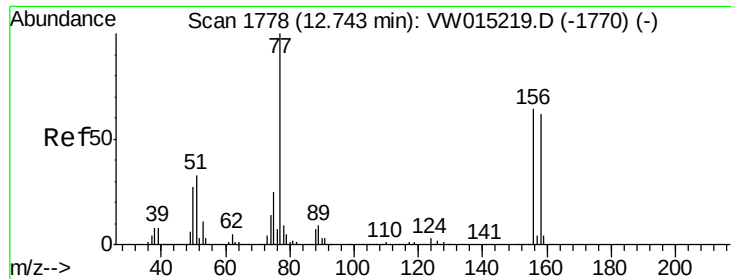
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 49.707 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

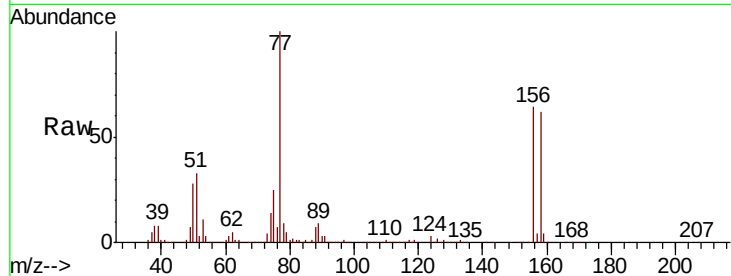
Tot Ion:156 Resp: 132918

Ion Ratio Lower Upper

156 100

77 165.4 100.5 301.5

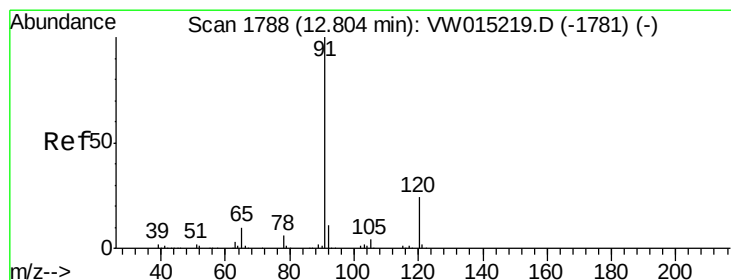
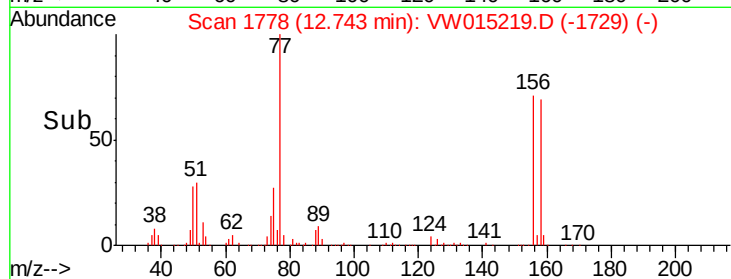
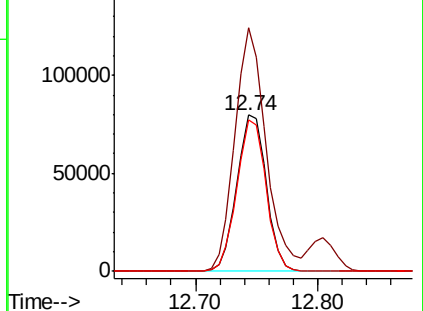
158 96.1 47.9 143.8



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: 42.539 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW015219.D

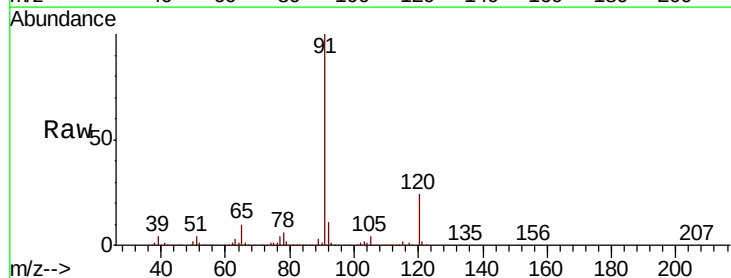
Acq: 20 Apr 2020 13:19

Tgt Ion: 91 Resp: 662149

Ion Ratio Lower Upper

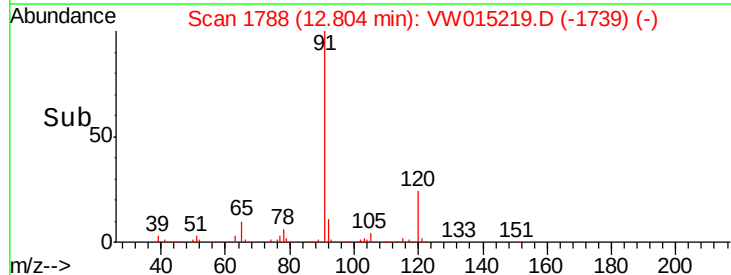
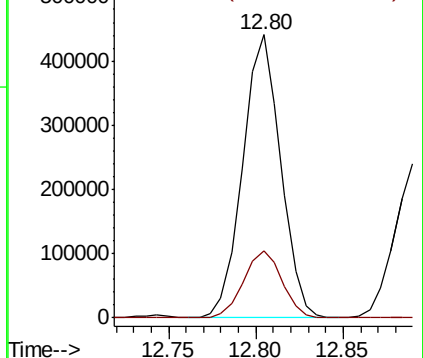
91 100

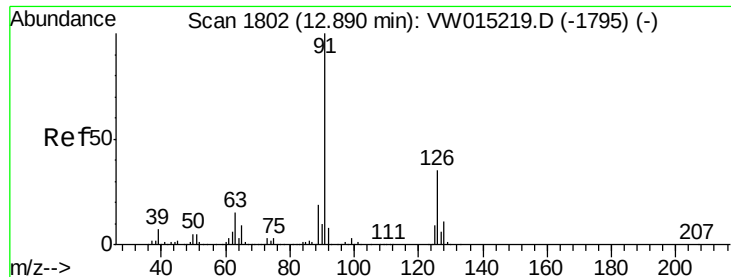
120 24.2 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 43.620 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

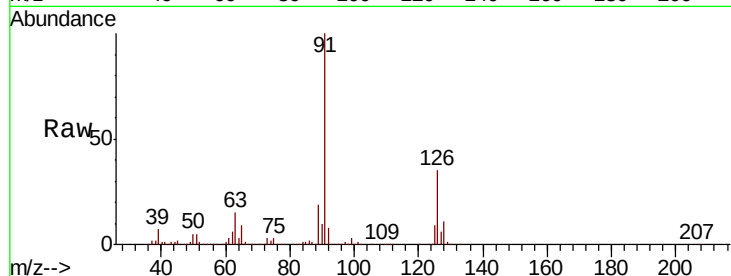
VSTDICCC050

Tot Ion: 91 Resp: 375346

Ion Ratio Lower Upper

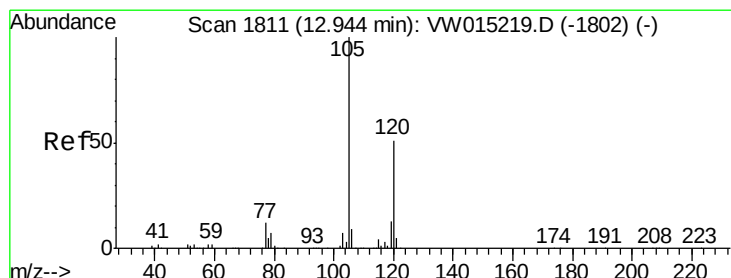
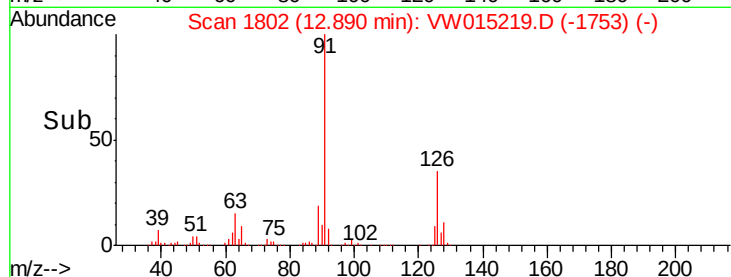
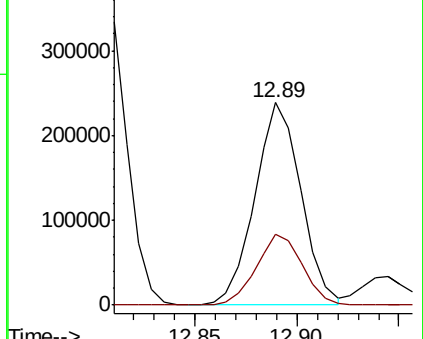
91 100

126 35.1 16.8 50.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 45.262 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW015219.D

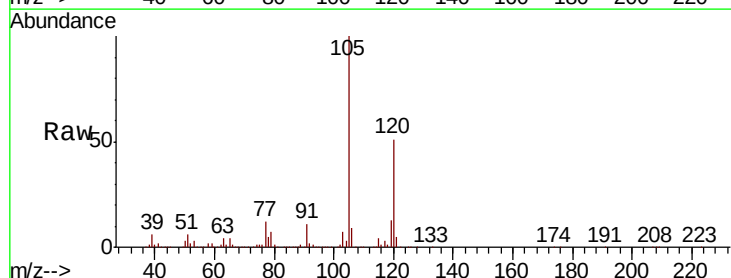
Acq: 20 Apr 2020 13:19

Tgt Ion:105 Resp: 491914

Ion Ratio Lower Upper

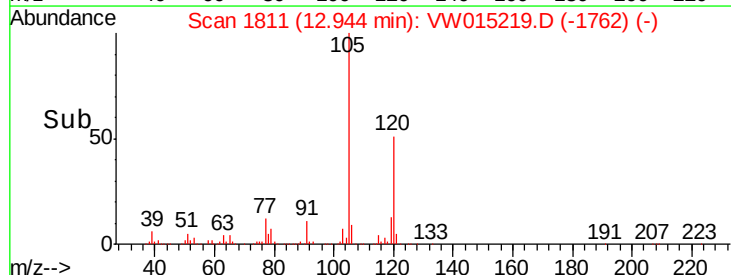
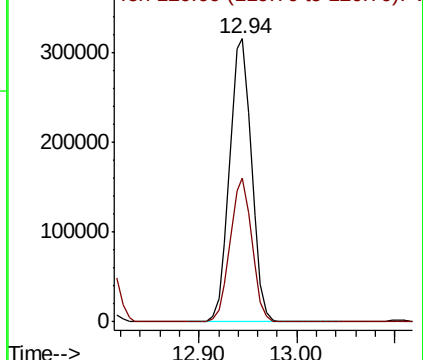
105 100

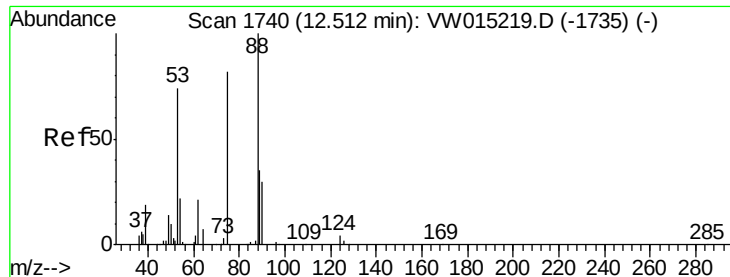
120 50.3 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 37.953 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

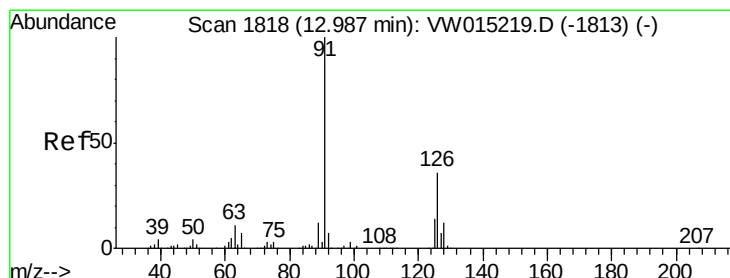
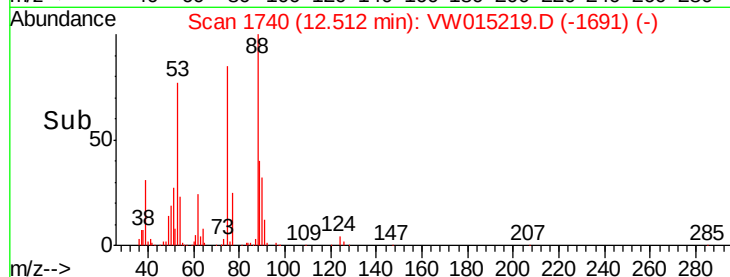
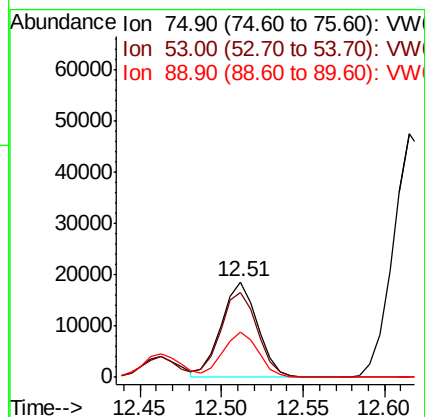
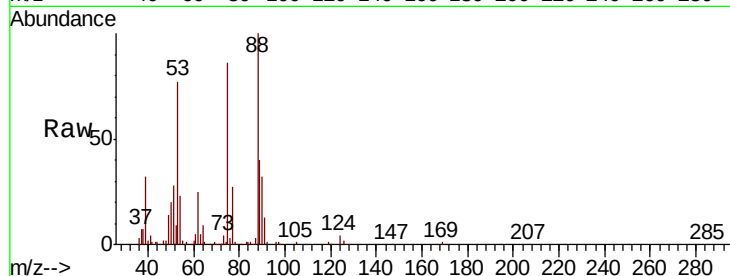
Tot Ion: 75 Resp: 29063

Ion Ratio Lower Upper

75 100

53 90.7 69.4 104.2

89 45.6 34.8 52.2



#82

4-Chlorotoluene

Concen: 43.975 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW015219.D

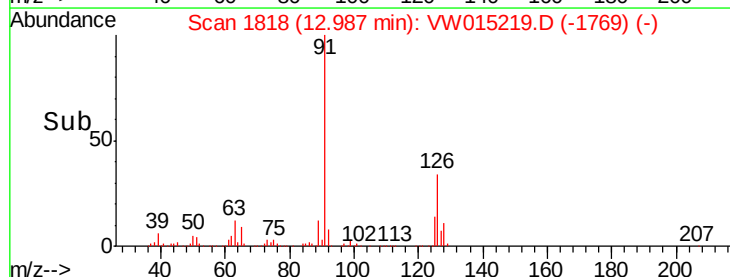
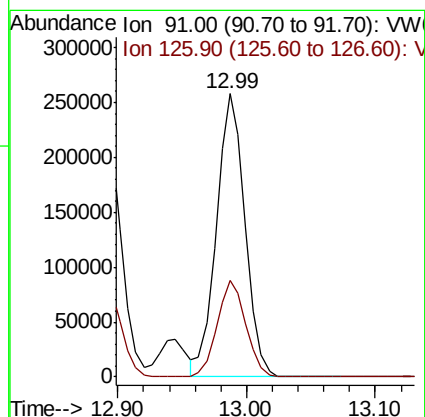
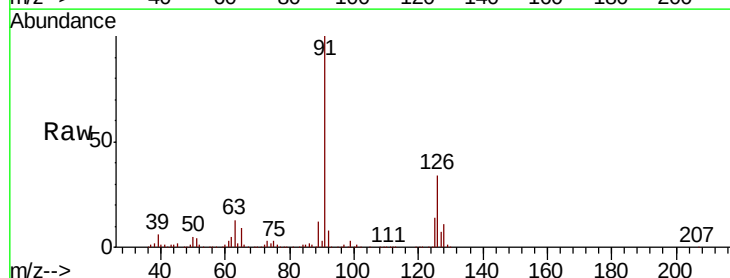
Acq: 20 Apr 2020 13:19

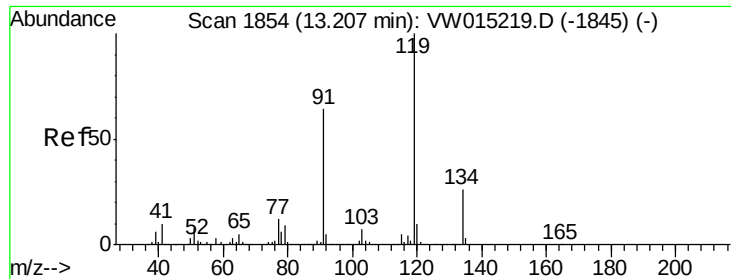
Tgt Ion: 91 Resp: 399781

Ion Ratio Lower Upper

91 100

126 34.4 16.8 50.3

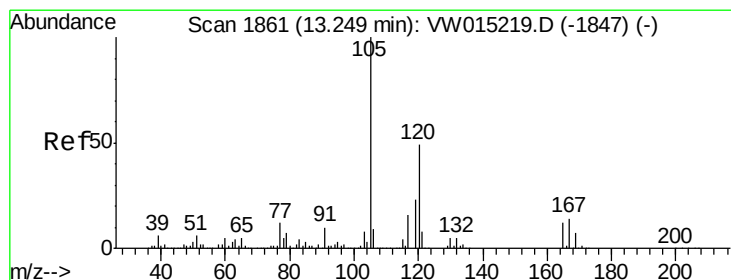
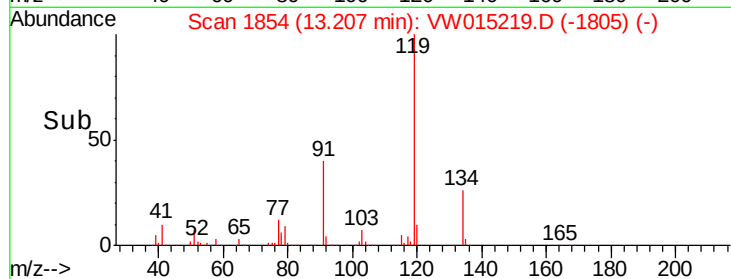
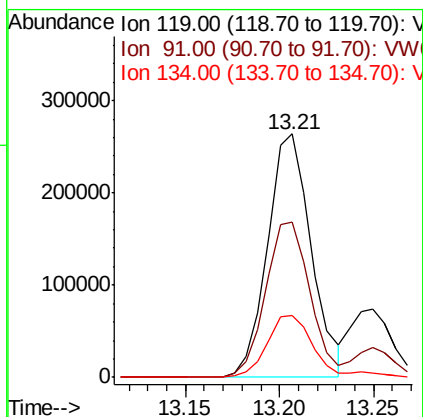
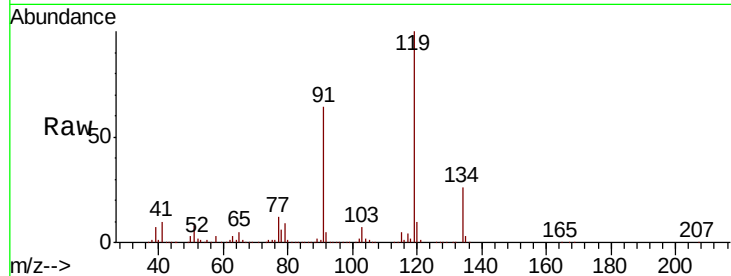




#83  
tert-Butylbenzene  
Concen: 45.097 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

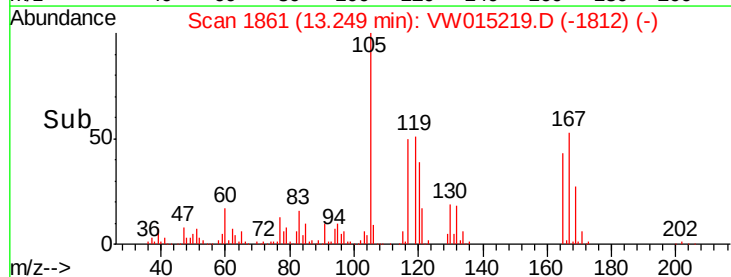
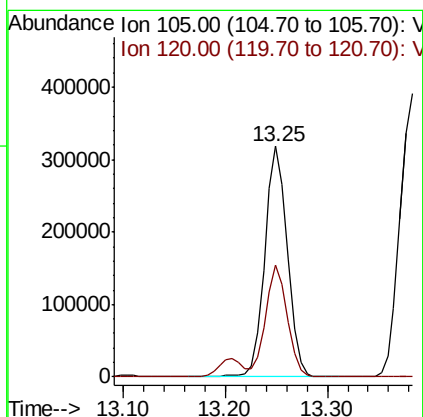
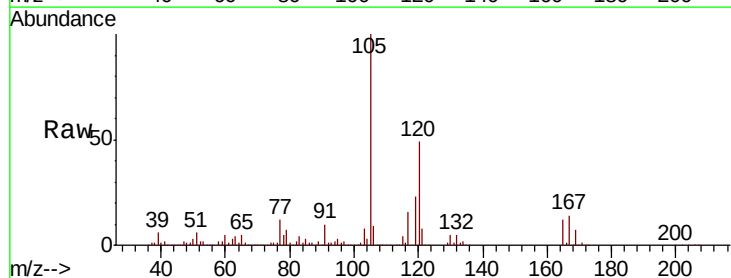
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

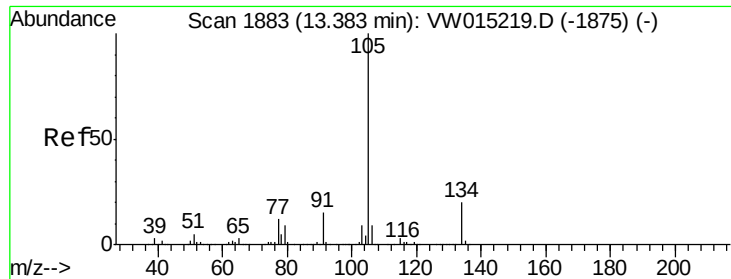
Tot Ion:119 Resp: 424971  
Ion Ratio Lower Upper  
119 100  
91 64.7 32.8 98.3  
134 27.7 13.3 39.9



#84  
1,2,4-Trimethylbenzene  
Concen: 45.127 ug/l  
RT: 13.25 min Scan# 1861  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion:105 Resp: 487462  
Ion Ratio Lower Upper  
105 100  
120 46.3 23.0 69.0





#85

sec-Butylbenzene

Concen: 44.299 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

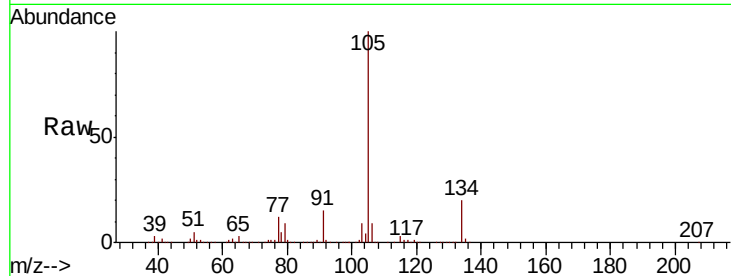
VSTDICCC050

Tot Ion:105 Resp: 593292

Ion Ratio Lower Upper

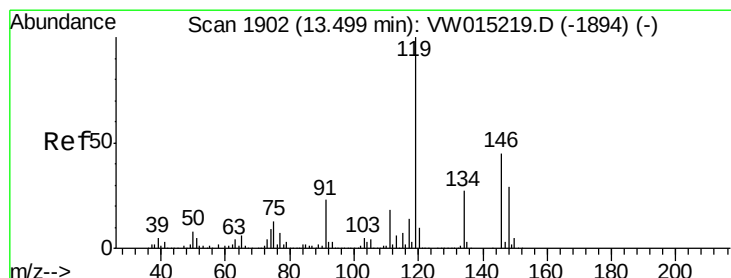
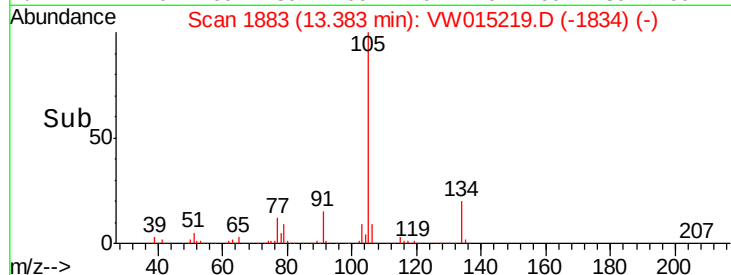
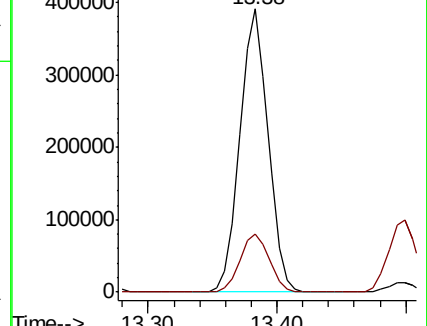
105 100

134 21.1 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 47.032 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

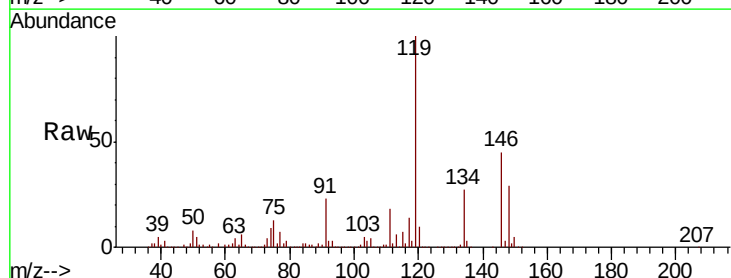
Tgt Ion:119 Resp: 562037

Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.9

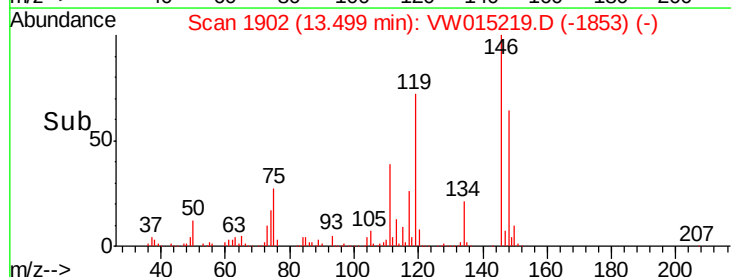
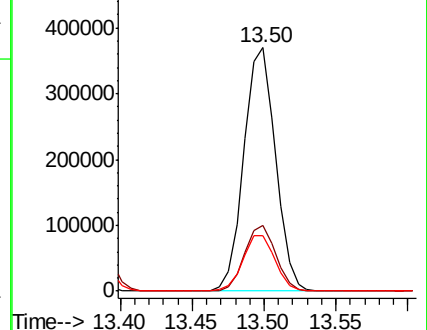
91 23.3 12.0 36.1

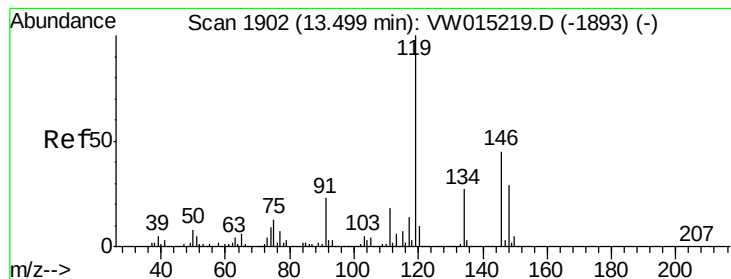


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 49.318 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

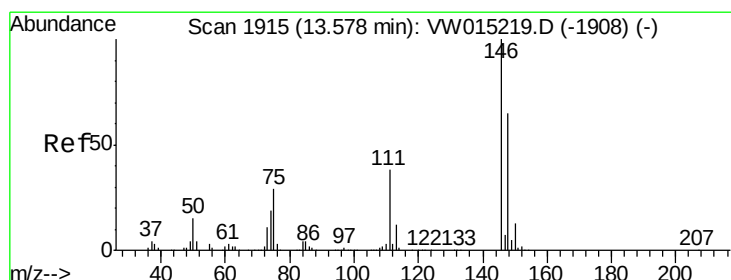
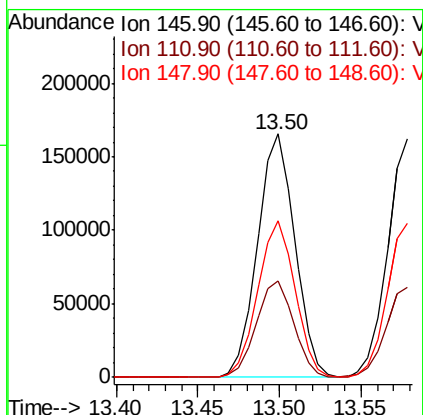
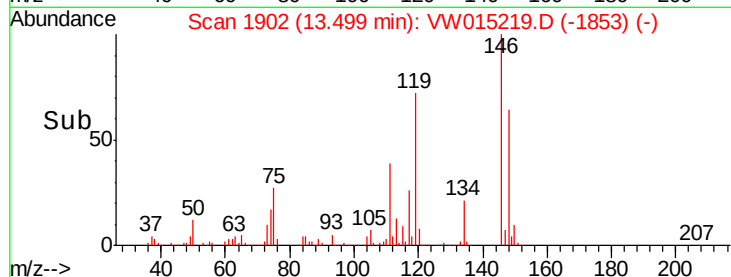
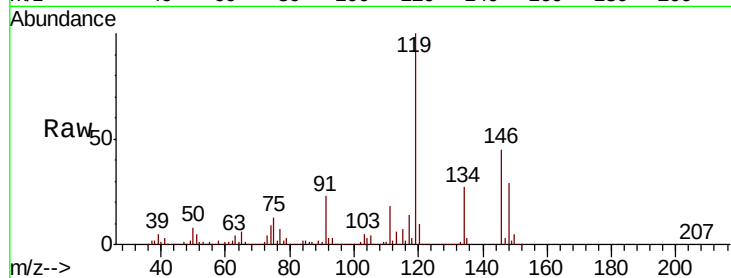
Tot Ion:146 Resp: 262736

Ion Ratio Lower Upper

146 100

111 39.7 21.1 63.4

148 64.1 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 48.740 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

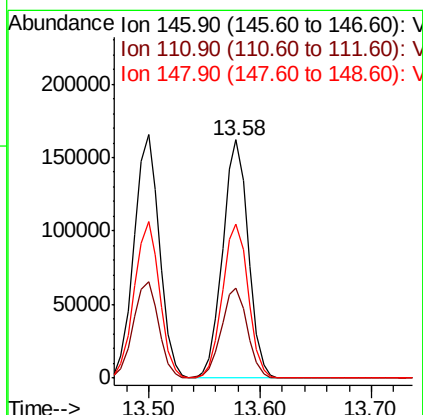
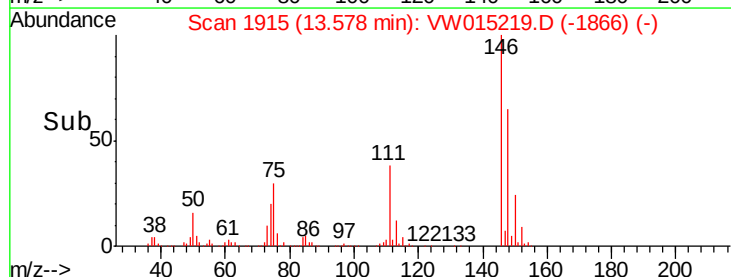
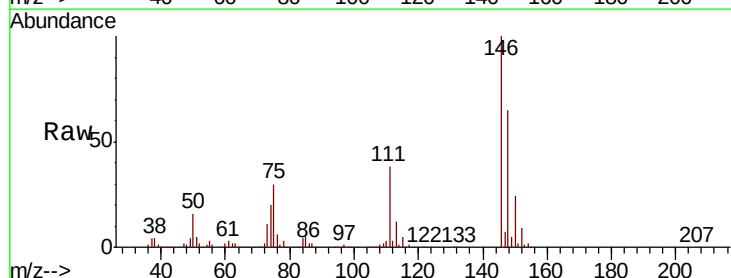
Tgt Ion:146 Resp: 257599

Ion Ratio Lower Upper

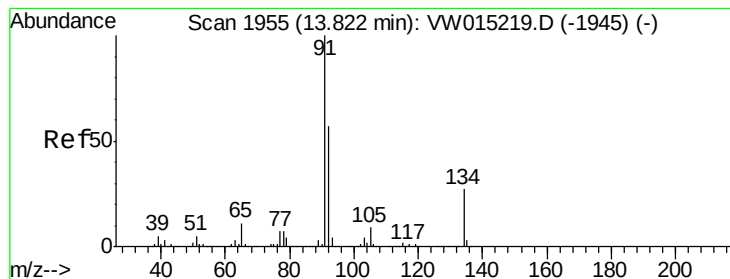
146 100

111 38.3 20.4 61.3

148 65.3 31.5 94.5







#89

n-Butylbenzene

Concen: 43.283 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW015219.D

Acq: 20 Apr 2020 13:19

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

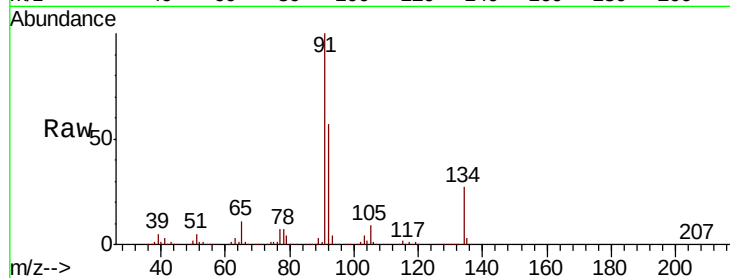
Tot Ion: 91 Resp: 511348

Ion Ratio Lower Upper

91 100

92 55.4 27.6 82.7

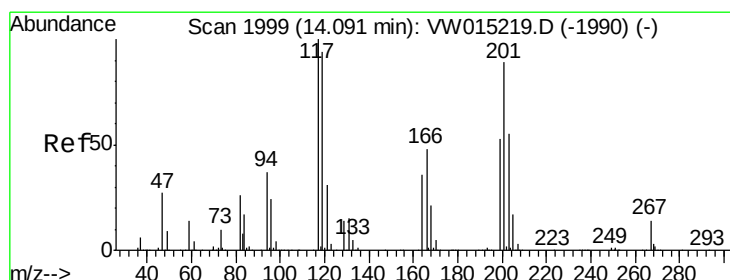
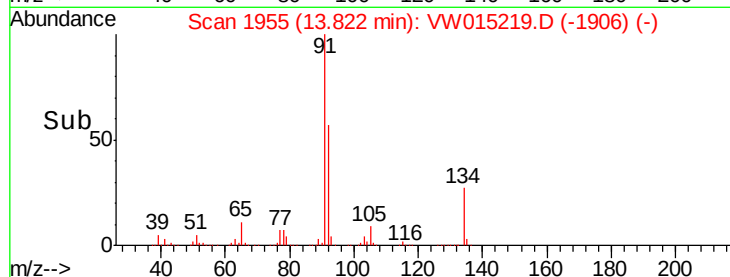
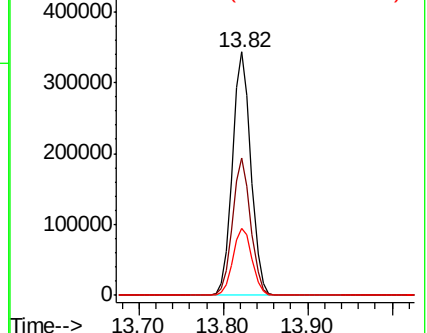
134 28.2 12.8 38.3



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: 43.545 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VW015219.D

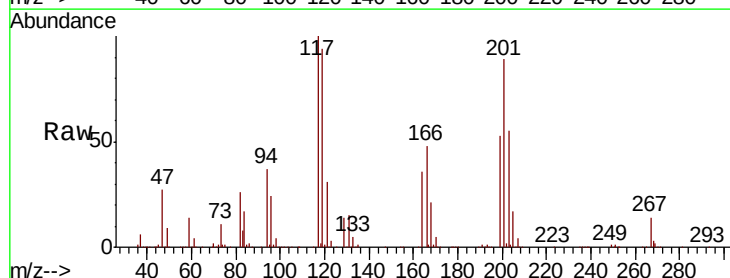
Acq: 20 Apr 2020 13:19

Tgt Ion: 117 Resp: 100049

Ion Ratio Lower Upper

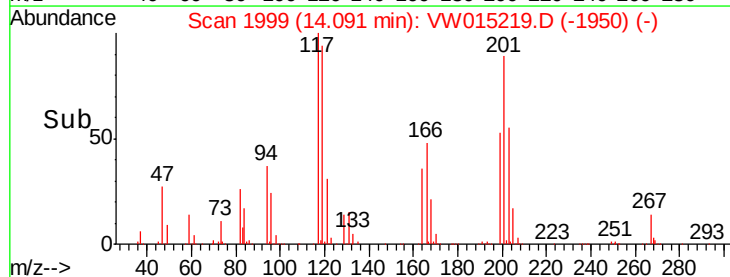
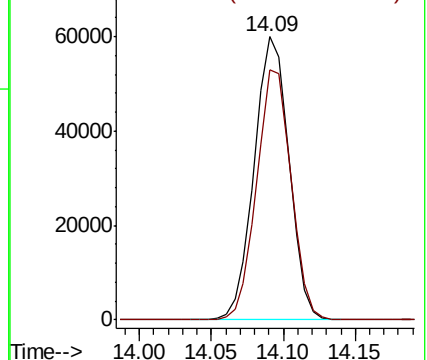
117 100

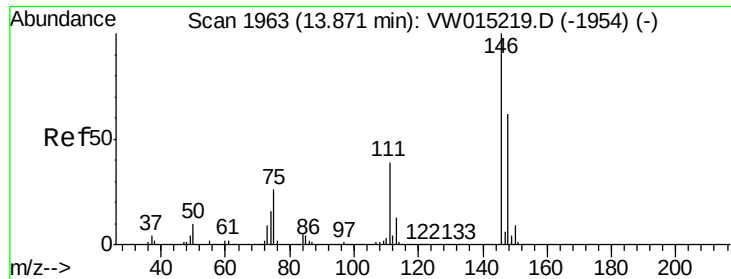
201 87.5 33.6 100.6



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

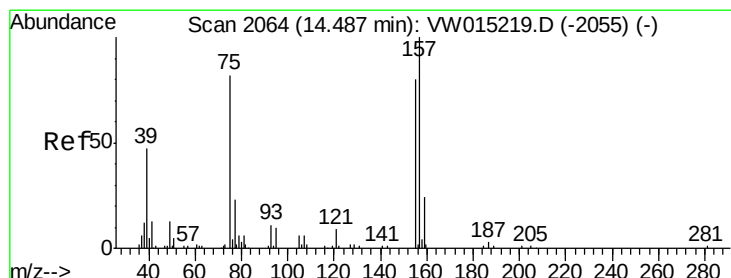
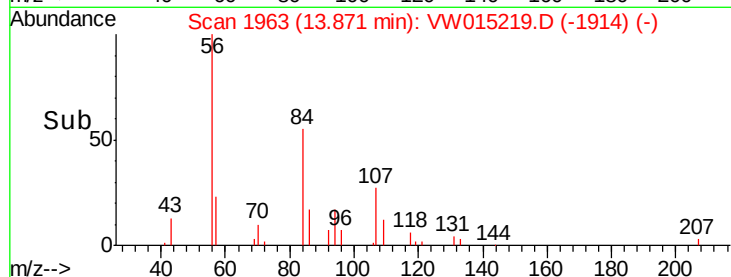
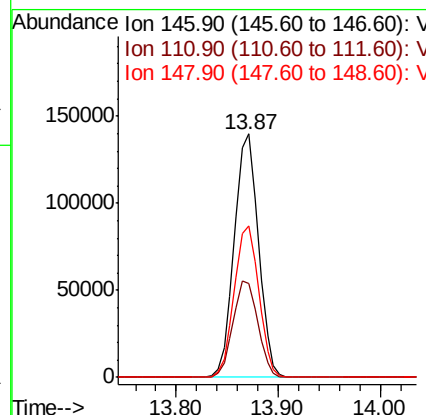
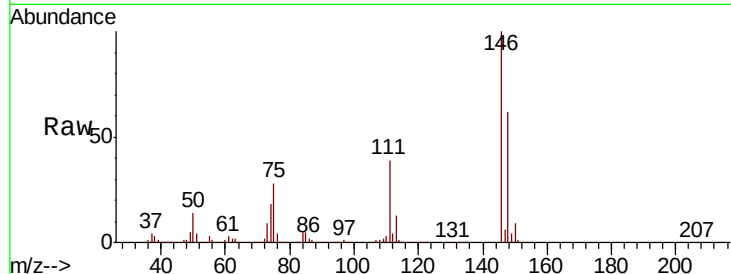




#91  
 1,2-Dichlorobenzene  
 Concen: 48.087 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

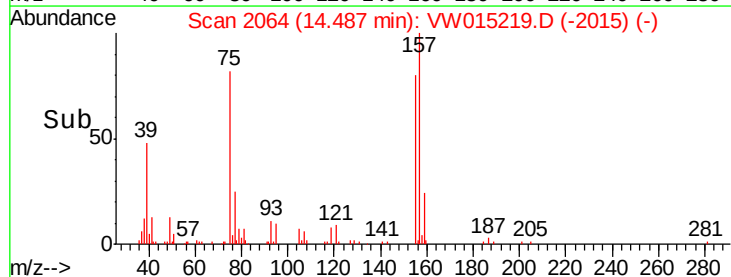
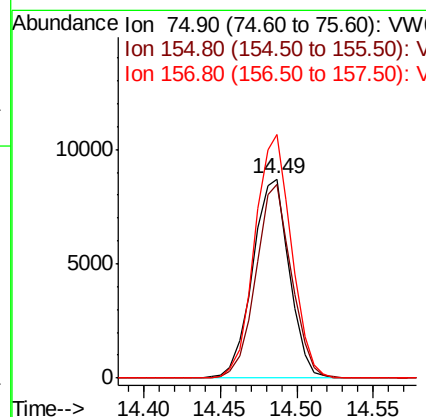
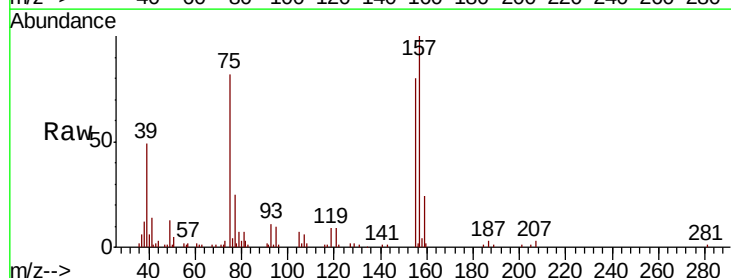
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

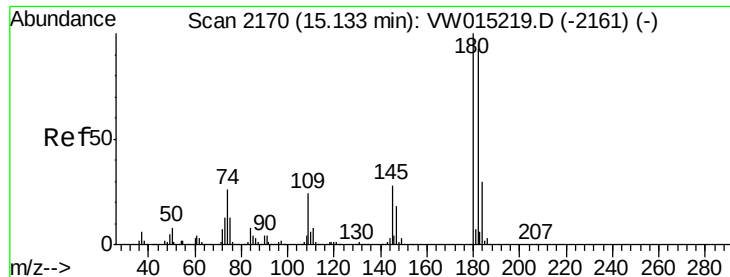
Tot Ion:146 Resp: 227764  
 Ion Ratio Lower Upper  
 146 100  
 111 40.8 21.6 65.0  
 148 63.5 31.0 93.0



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 41.399 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Tgt Ion: 75 Resp: 14496  
 Ion Ratio Lower Upper  
 75 100  
 155 94.2 41.6 124.9  
 157 122.1 53.8 161.2

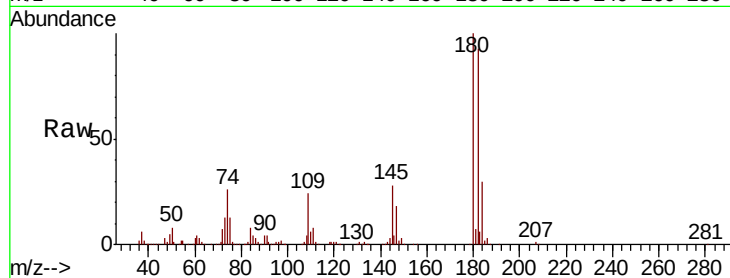




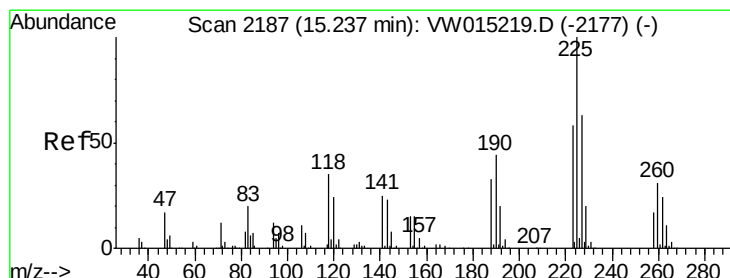
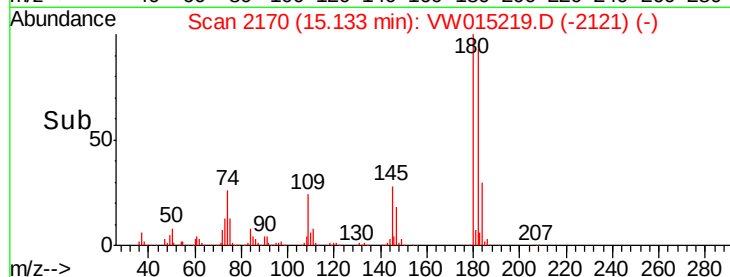
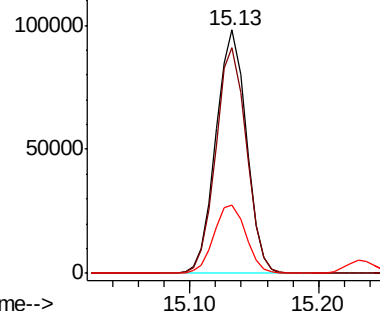
#93  
 1,2,4-Trichlorobenzene  
 Concen: 51.206 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.7  | 47.1  | 141.4 |
| 145     | 29.4  | 16.2  | 48.6  |

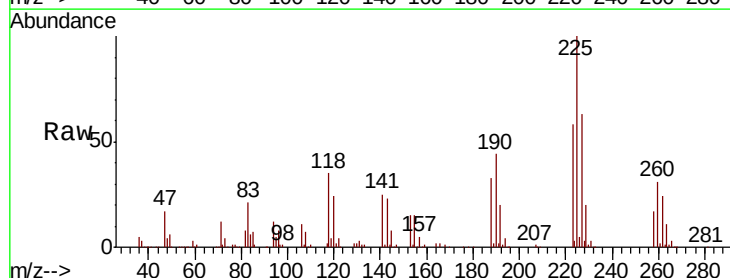


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

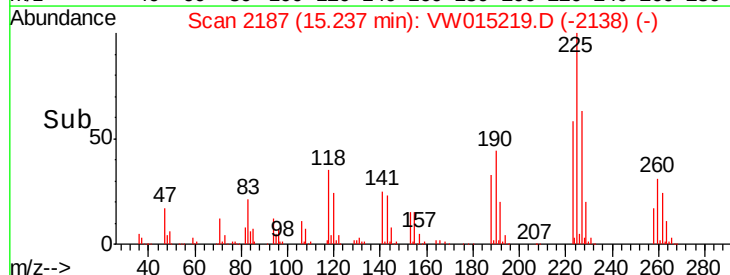
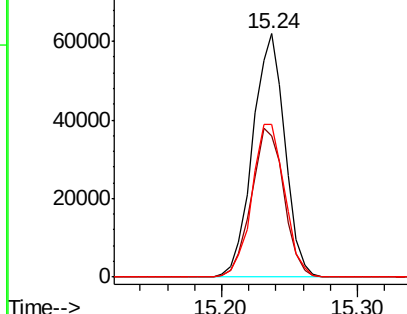


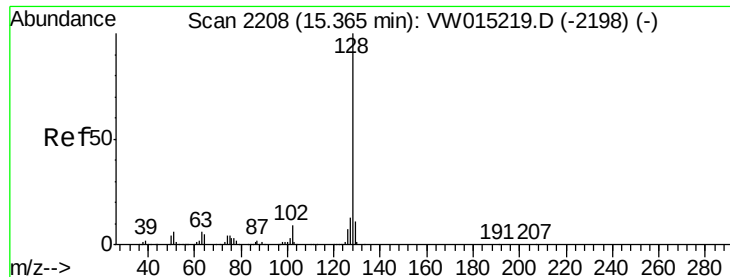
#94  
 Hexachlorobutadiene  
 Concen: 56.863 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. 0.00 min  
 Lab File: VW015219.D  
 Acq: 20 Apr 2020 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.1  | 31.0  | 93.0  |
| 227     | 63.9  | 30.8  | 92.3  |



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

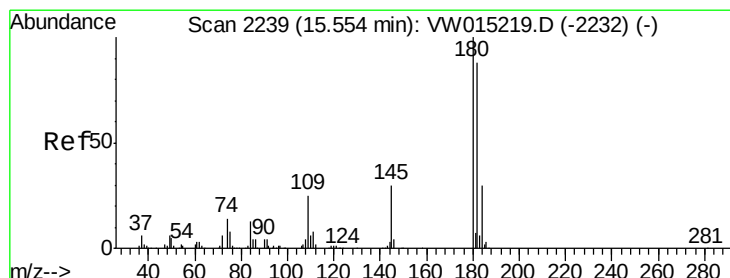
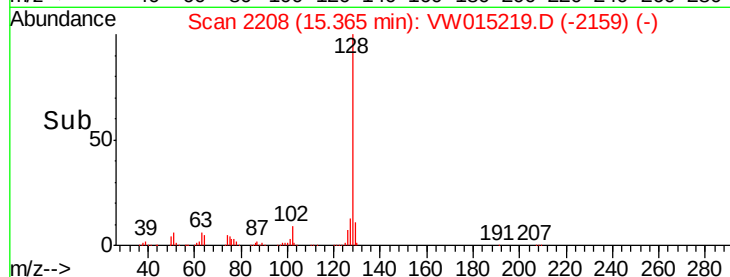
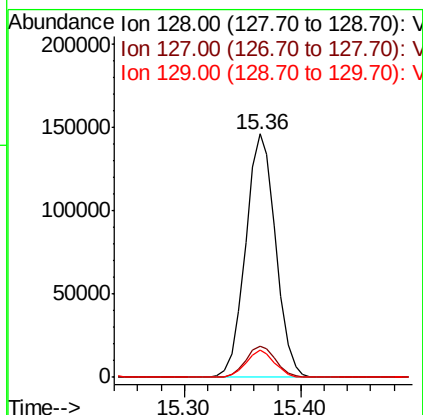
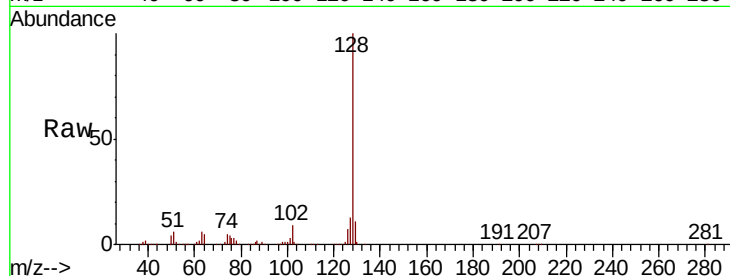




#95  
Naphthalene  
Concen: 43.333 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

Tot Ion:128 Resp: 260531  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.3 15.5  
129 10.7 8.6 12.8



#96  
1,2,3-Trichlorobenzene  
Concen: 48.804 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: VW015219.D  
Acq: 20 Apr 2020 13:19

Tgt Ion:180 Resp: 130898  
Ion Ratio Lower Upper  
180 100  
182 94.9 48.8 146.3  
145 31.1 17.2 51.6

