

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052620\  
 Data File : VD065755.D  
 Acq On : 26 May 2020 11:50  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 27 02:55:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 14:28:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 324324   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 482410   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 435010   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 213687   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 126436   | 48.38 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.76% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 128321   | 46.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.90% |          |
| 50) Toluene-d8              | 10.34 | 98   | 484585   | 46.57 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.14% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 161218   | 45.75 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.50% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85   | 94882    | 44.590  | ug/l  | 97     |
| 3) Chloromethane              | 2.21 | 50   | 135682   | 44.491  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.35 | 62   | 159948   | 48.437  | ug/l  | 99     |
| 5) Bromomethane               | 2.77 | 94   | 100784   | 46.193  | ug/l  | 97     |
| 6) Chloroethane               | 2.92 | 64   | 106647   | 49.792  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 3.27 | 101  | 210559   | 46.124  | ug/l  | 98     |
| 8) Diethyl Ether              | 3.70 | 74   | 56878    | 43.362  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101  | 124663   | 44.427  | ug/l  | 98     |
| 10) Methyl Iodide             | 4.30 | 142  | 128259   | 43.755  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 5.22 | 59   | 40611    | 177.881 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 4.07 | 96   | 116035   | 43.599  | ug/l  | 97     |
| 13) Acrolein                  | 3.93 | 56   | 34823    | 240.660 | ug/l  | 99     |
| 14) Allyl chloride            | 4.71 | 41   | 192168   | 41.760  | ug/l  | 96     |
| 15) Acrylonitrile             | 5.42 | 53   | 125759   | 217.022 | ug/l  | 97     |
| 16) Acetone                   | 4.15 | 43   | 162683   | 303.462 | ug/l  | 96     |
| 17) Carbon Disulfide          | 4.41 | 76   | 356555   | 42.417  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.71 | 43   | 55025    | 43.554  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.47 | 73   | 265622   | 42.779  | ug/l  | 97     |
| 20) Methylene Chloride        | 4.97 | 84   | 121415   | 40.145  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96   | 132763   | 43.326  | ug/l  | 94     |
| 22) Diisopropyl ether         | 6.36 | 45   | 377422   | 43.081  | ug/l  | 96     |
| 23) Vinyl Acetate             | 6.30 | 43   | 1130580  | 219.407 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.26 | 63   | 226230   | 44.104  | ug/l  | 98     |
| 25) 2-Butanone                | 7.21 | 43   | 179428   | 234.140 | ug/l  | 96     |
| 26) 2,2-Dichloropropane       | 7.21 | 77   | 212991   | 44.738  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96   | 143733   | 42.803  | ug/l  | 98     |
| 28) Bromochloromethane        | 7.55 | 49   | 108891   | 51.632  | ug/l  | 96     |
| 29) Tetrahydrofuran           | 7.56 | 42   | 104512   | 215.103 | ug/l  | 99     |
| 30) Chloroform                | 7.71 | 83   | 235169   | 45.364  | ug/l  | 96     |
| 31) Cyclohexane               | 7.99 | 56   | 219663   | 42.305  | ug/l  | 96     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97   | 219325   | 45.164  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75   | 185474   | 44.272  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.29 | 43   | 75311    | 41.961  | ug/l  | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117  | 200518   | 45.126  | ug/l  | 99     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 27 02:55:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 14:28:42 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 232919   | 43.382  | ug/l   | 99       |
| 40) Benzene                    | 8.36  | 78   | 510282   | 44.295  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.52  | 41   | 51793    | 52.398  | ug/l # | 84       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 146702   | 45.736  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 149843   | 42.122  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 147646   | 42.810  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 128228   | 45.145  | ug/l   | 96       |
| 46) Dibromomethane             | 9.47  | 93   | 67786    | 44.259  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.67  | 83   | 180164   | 44.941  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 72903    | 43.659  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 15769    | 872.606 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 372538   | 218.835 | ug/l   | 100      |
| 52) Toluene                    | 10.41 | 92   | 331946   | 43.983  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 170291   | 43.481  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 205598   | 44.134  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 93224    | 44.681  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 114144   | 41.974  | ug/l # | 93       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 159607   | 43.981  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 322173   | 254.652 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 276282   | 238.325 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.14 | 129  | 125155   | 44.794  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 89800    | 43.093  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 125444   | 41.703  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.67 | 112  | 348167   | 42.473  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 128537   | 41.882  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 636055   | 43.517  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 489281   | 87.645  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 226240   | 43.534  | ug/l   | 98       |
| 70) Styrene                    | 12.20 | 104  | 385403   | 43.456  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 71701    | 42.330  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 627210   | 43.721  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.30 | 43   | 137954   | 41.418  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 98455    | 43.362  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 131892   | 82.703  | ug/l # | 100      |
| 77) Bromobenzene               | 12.77 | 156  | 144401   | 41.761  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 741311   | 44.237  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 400955   | 43.243  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 517599   | 43.789  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 34487    | 42.425  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 428078   | 43.791  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 453229   | 43.241  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 513653   | 44.064  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 634788   | 44.508  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 584622   | 44.596  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 280195   | 43.204  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 274300   | 42.462  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 549000   | 44.785  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 112881   | 44.013  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 238103   | 42.445  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 15687    | 41.315  | ug/l   | 95       |

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Acq On : 26 May 2020 11:50  
Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: May 27 02:55:44 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 13 14:28:42 2020  
Response via : Initial Calibration

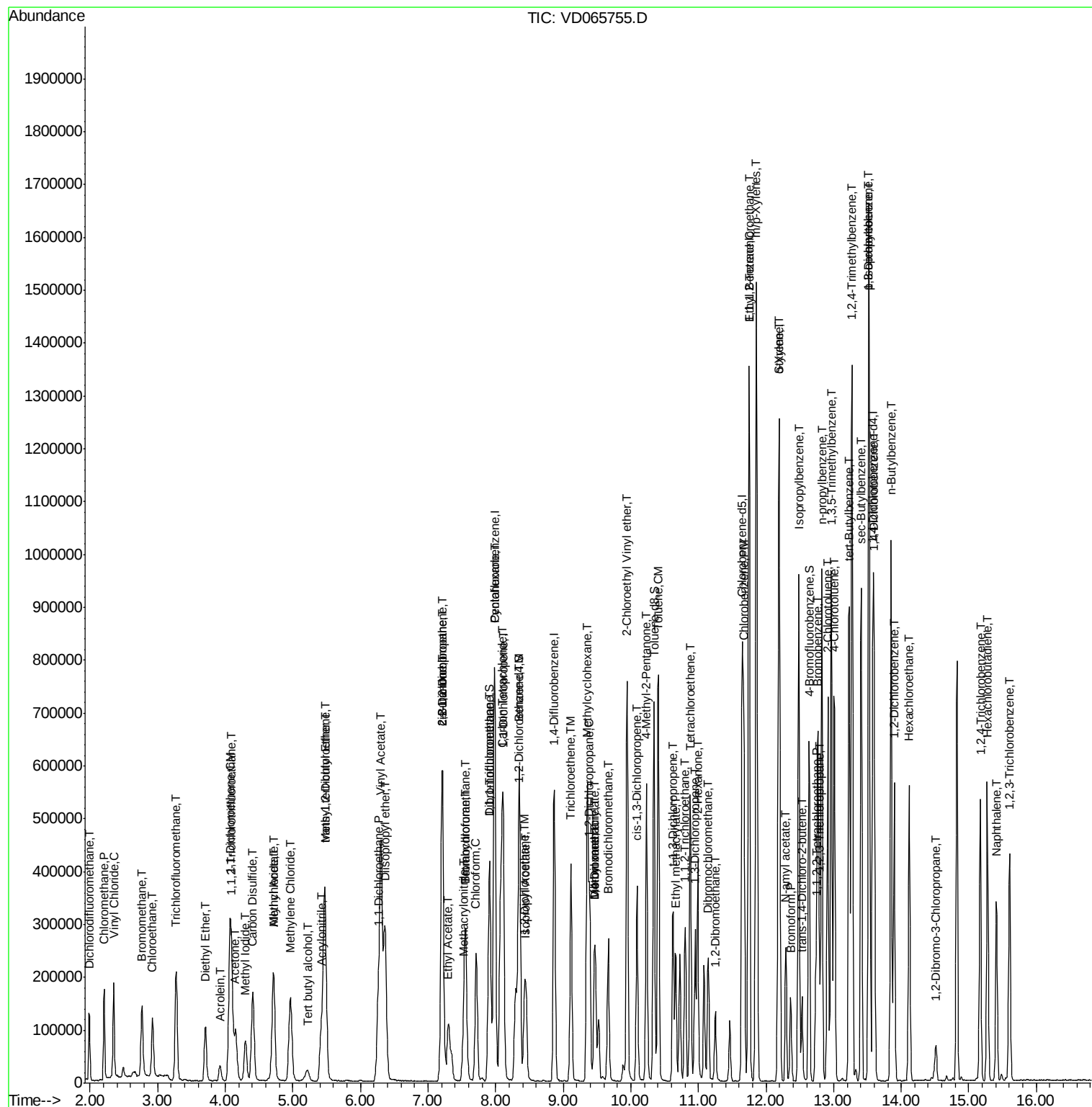
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 177373   | 41.564 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 107594   | 42.053 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 296934   | 41.834 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 149978   | 41.220 | ug/l  | 99       |

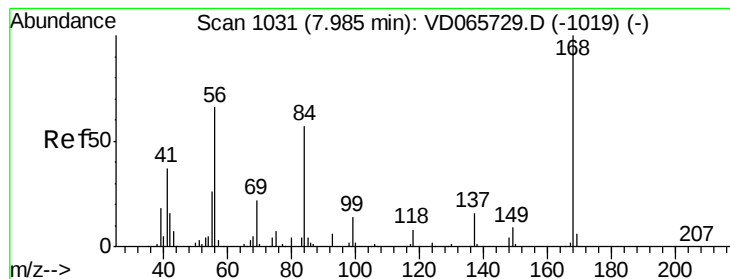
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052620\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

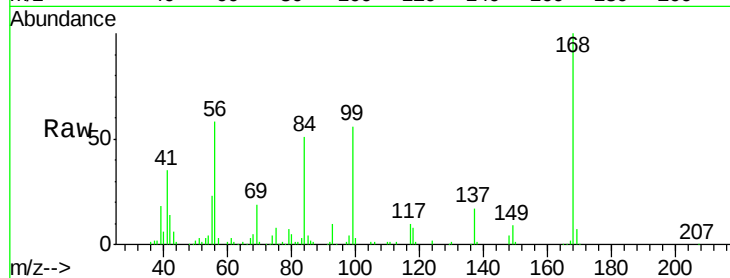
ClientSampleId :

Tot Ion:168 Resp: 324324

Ion Ratio Lower Upper

168 100

99 56.0 40.6 60.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

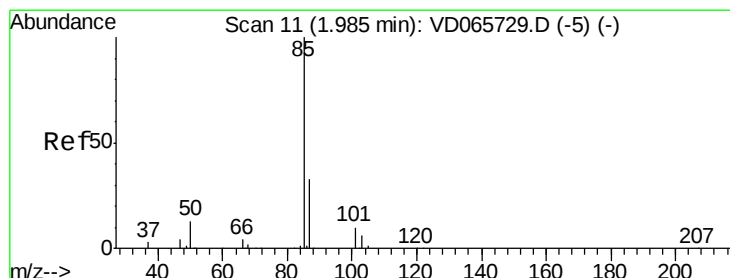
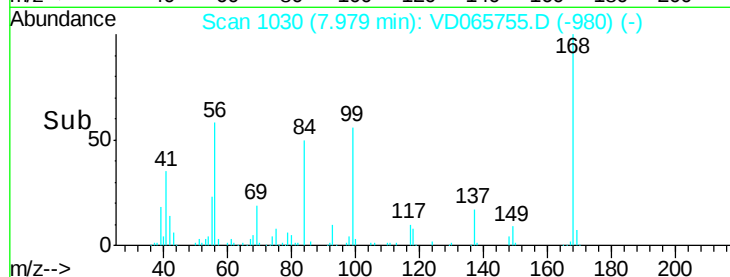
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50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 44.590 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065755.D

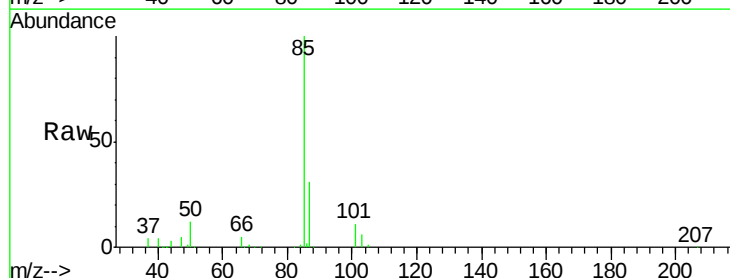
Acq: 26 May 2020 11:50

Tgt Ion: 85 Resp: 94882

Ion Ratio Lower Upper

85 100

87 31.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

80000

60000

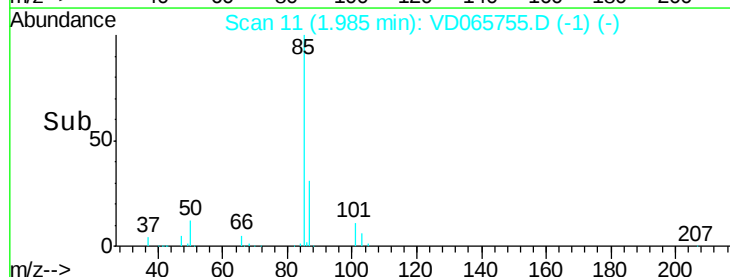
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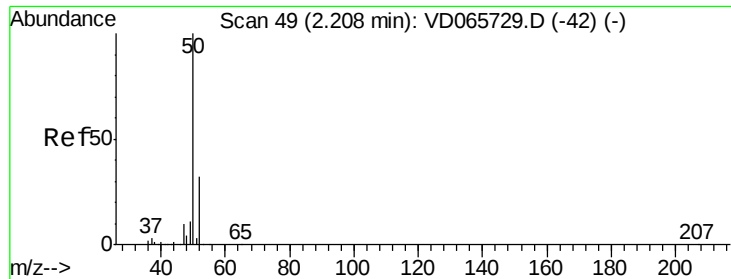
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0

1.95 2.00 2.05

Time-->

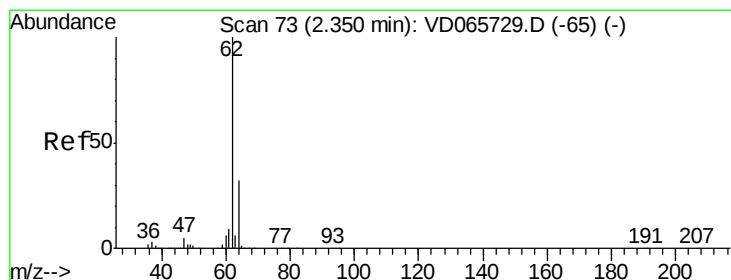
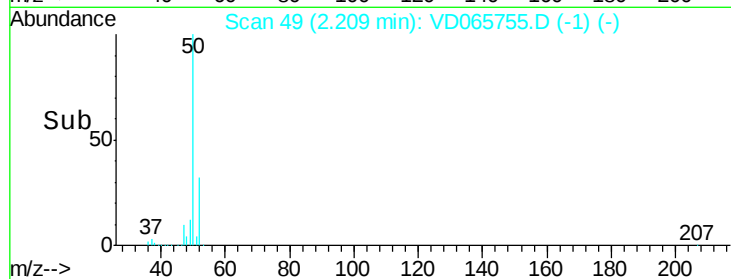
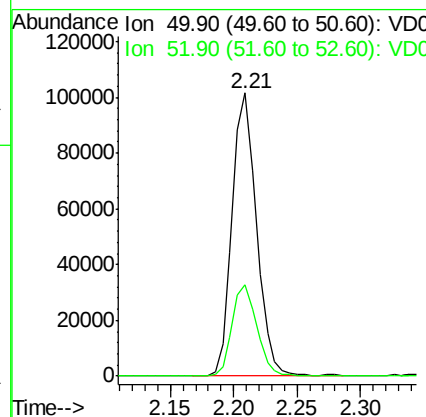
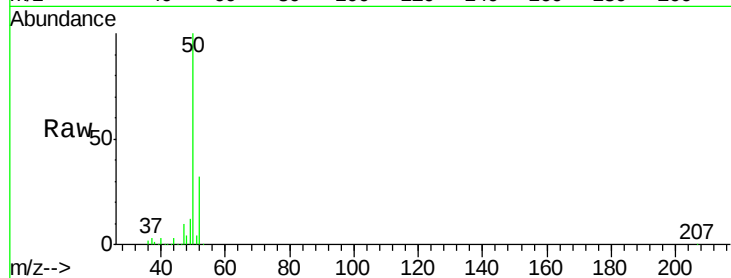




#3  
Chloromethane  
Concen: 44.491 ug/l  
RT: 2.21 min Scan# 49  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

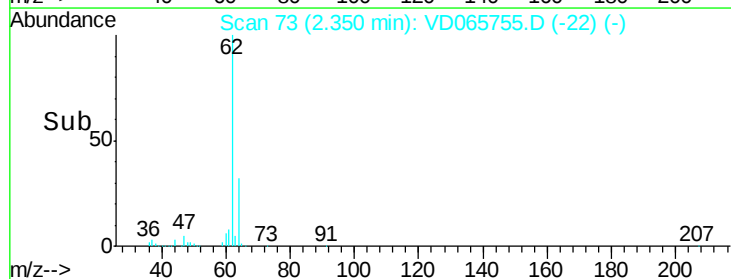
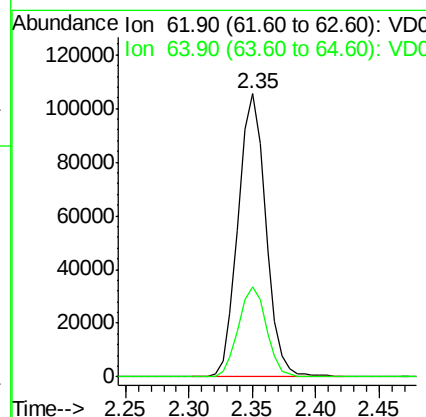
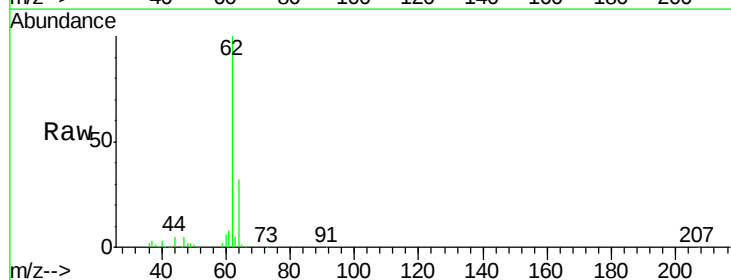
Instrument :  
MSVOA\_D  
ClientSampled :

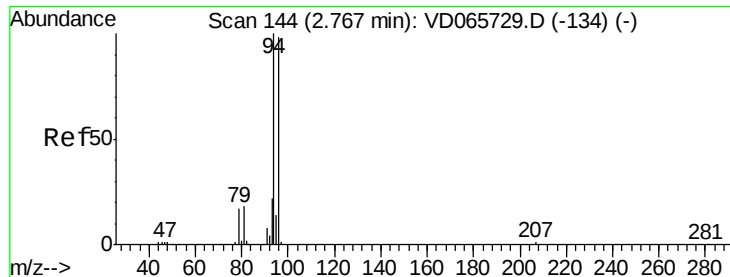
Tot Ion: 50 Resp: 135682  
Ion Ratio Lower Upper  
50 100  
52 32.1 25.5 38.3



#4  
Vinyl Chloride  
Concen: 48.437 ug/l  
RT: 2.35 min Scan# 73  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 62 Resp: 159948  
Ion Ratio Lower Upper  
62 100  
64 31.7 25.8 38.6





#5

Bromomethane

Concen: 46.193 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

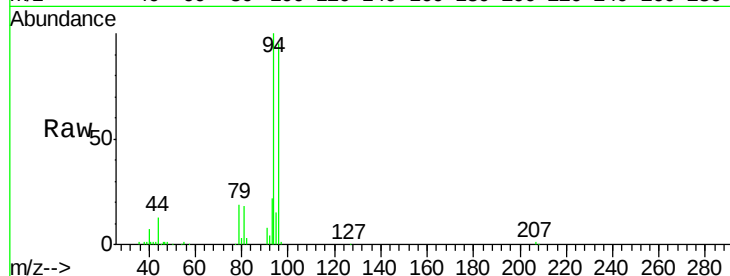
ClientSampleId :

Tot Ion: 94 Resp: 100784

Ion Ratio Lower Upper

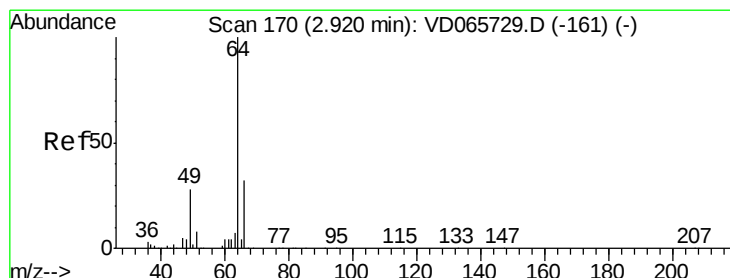
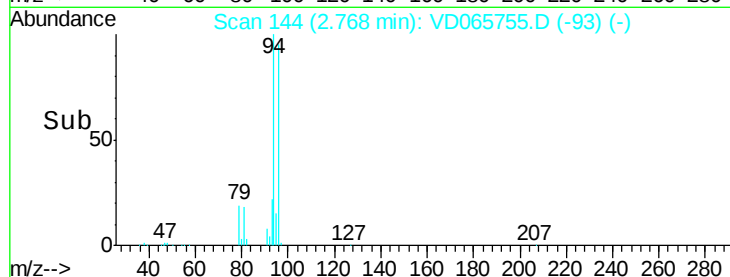
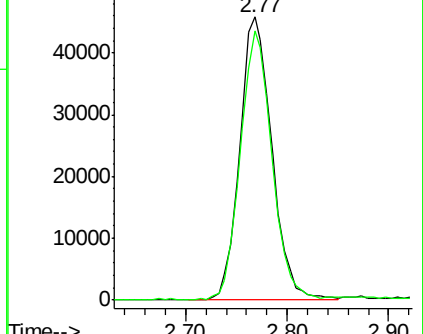
94 100

96 95.0 78.1 117.1



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 49.792 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD065755.D

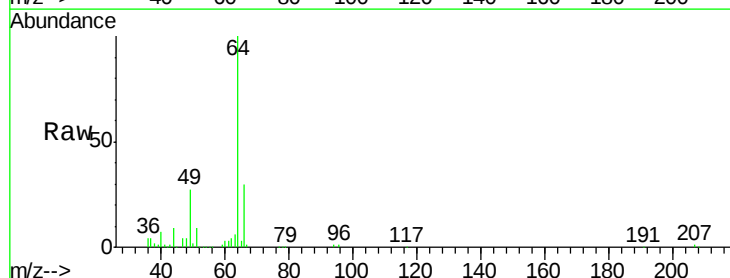
Acq: 26 May 2020 11:50

Tgt Ion: 64 Resp: 106647

Ion Ratio Lower Upper

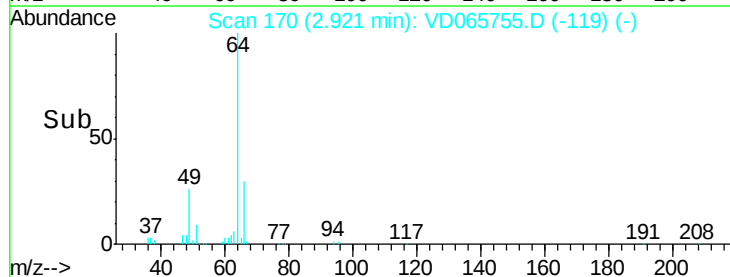
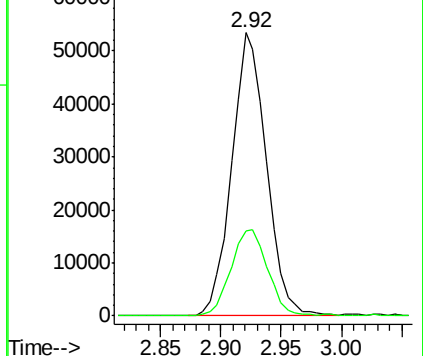
64 100

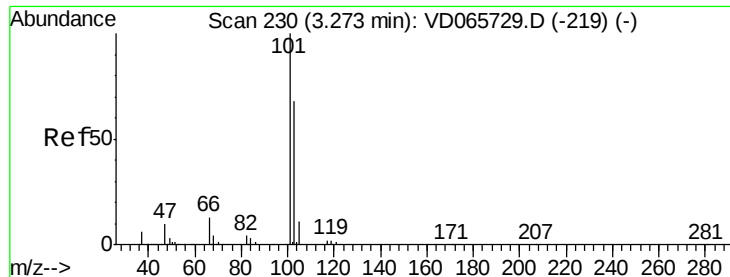
66 29.9 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



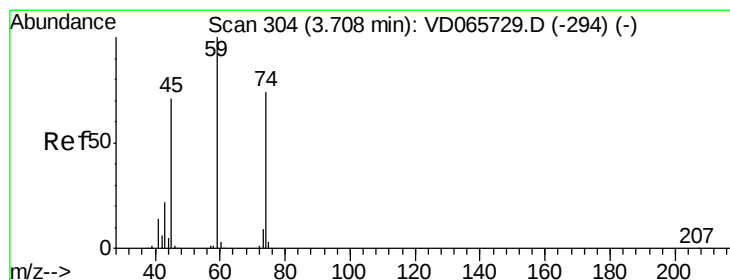
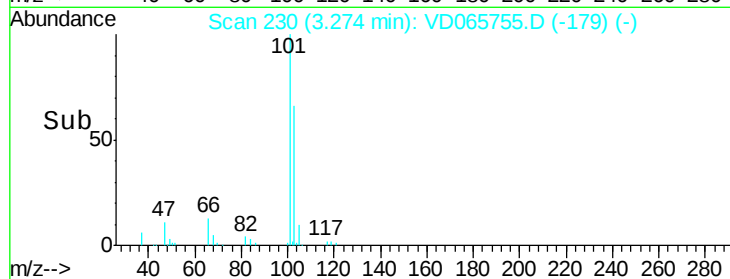
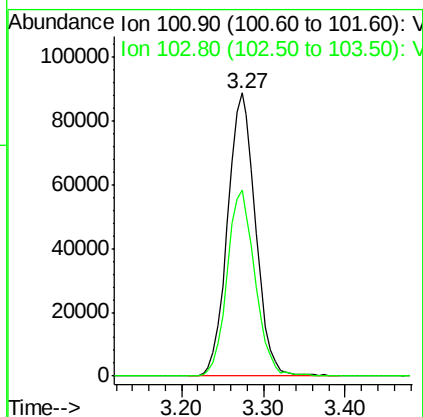
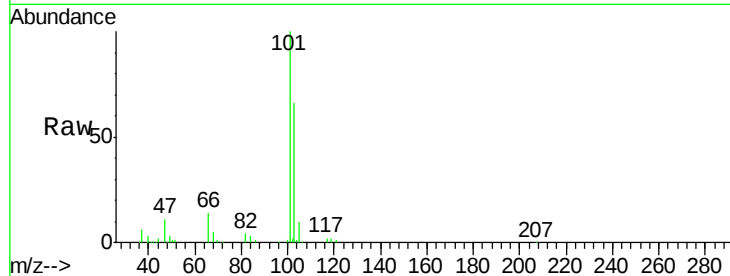


#7

Trichlorofluoromethane  
Concen: 46.124 ug/l  
RT: 3.27 min Scan# 230  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Instrument :  
MSVOA\_D  
ClientSampleId :

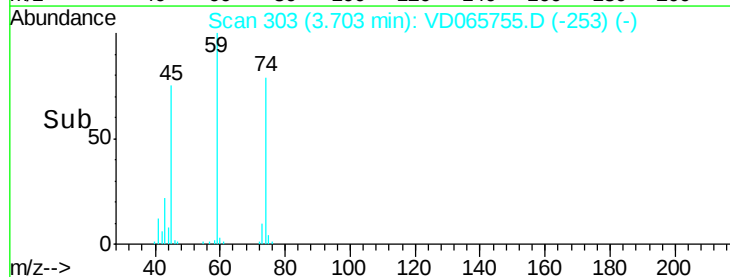
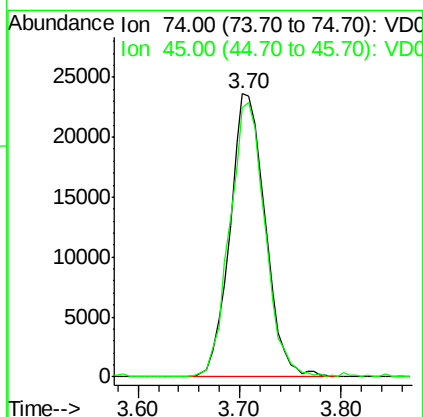
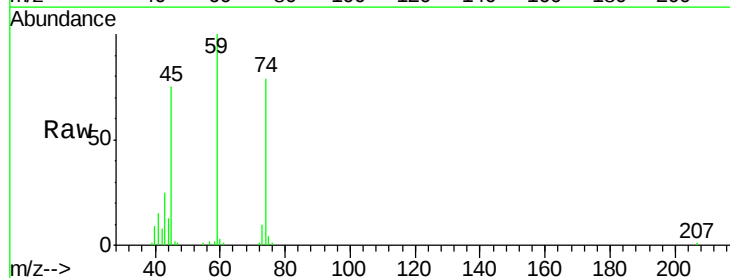
Tot Ion:101 Resp: 210559  
Ion Ratio Lower Upper  
101 100  
103 65.6 54.1 81.1

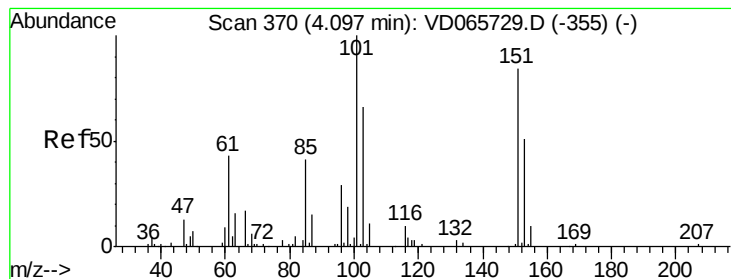


#8

Diethyl Ether  
Concen: 43.362 ug/l  
RT: 3.70 min Scan# 303  
Delta R.T. -0.01 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 74 Resp: 56878  
Ion Ratio Lower Upper  
74 100  
45 97.3 48.1 144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 44.427 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampled :

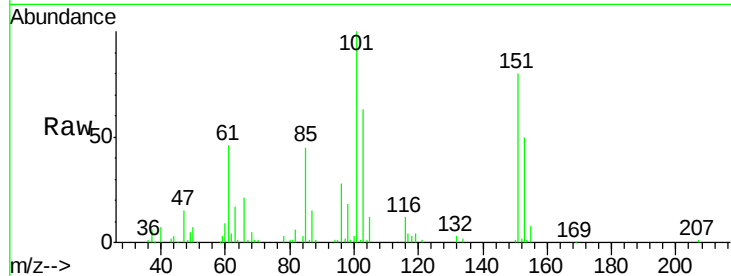
Tot Ion:101 Resp: 124663

Ion Ratio Lower Upper

101 100

85 45.2 34.1 51.1

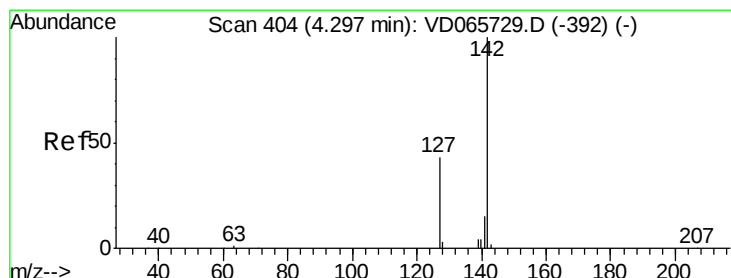
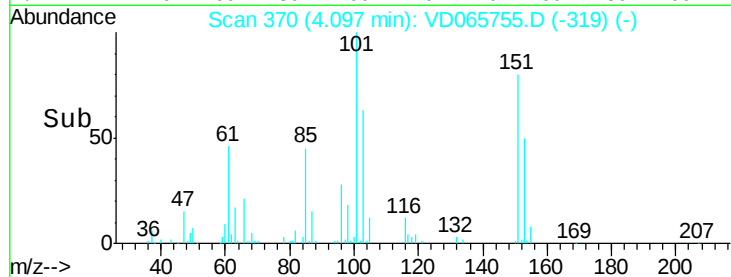
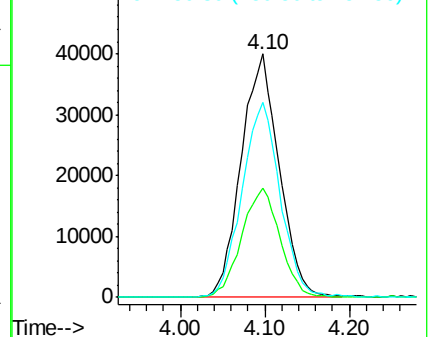
151 80.5 65.1 97.7



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: 43.755 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

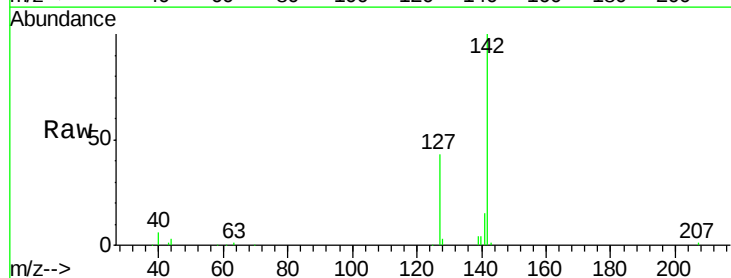
Tgt Ion:142 Resp: 128259

Ion Ratio Lower Upper

142 100

127 44.6 34.2 51.4

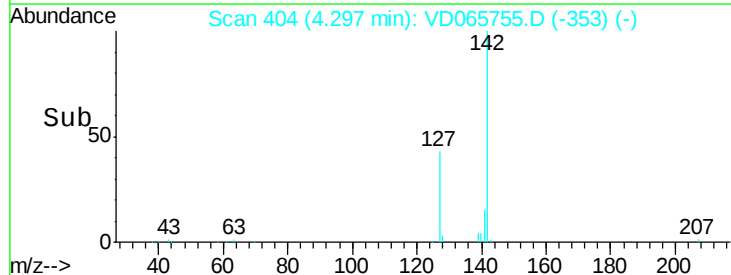
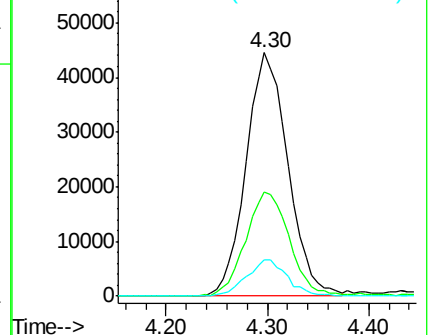
141 14.5 11.7 17.5

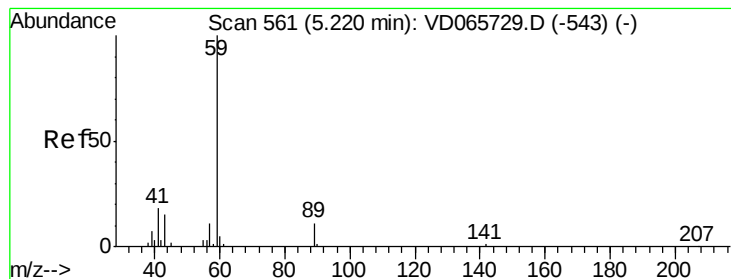


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 177.881 ug/l

RT: 5.22 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

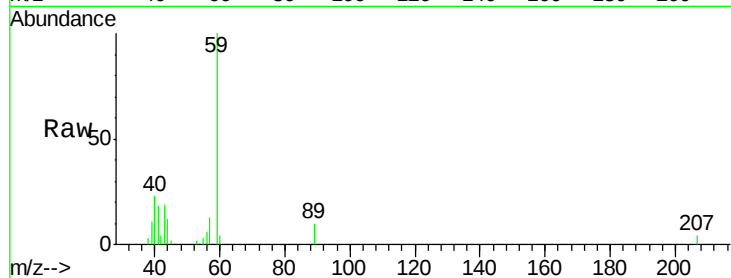
ClientSampleId :

Tot Ion: 59 Resp: 40611

Ion Ratio Lower Upper

59 100

57 9.5 7.4 11.0

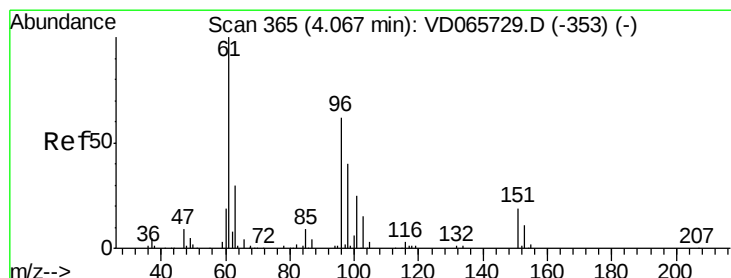
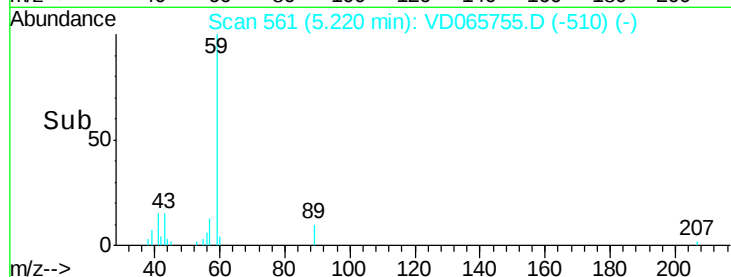


Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.22

Time-->



#12

1,1-Dichloroethene

Concen: 43.599 ug/l

RT: 4.07 min Scan# 365

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

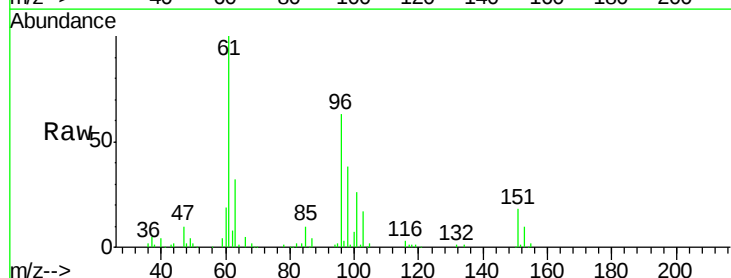
Tgt Ion: 96 Resp: 116035

Ion Ratio Lower Upper

96 100

61 160.0 130.0 195.0

98 60.4 52.3 78.5



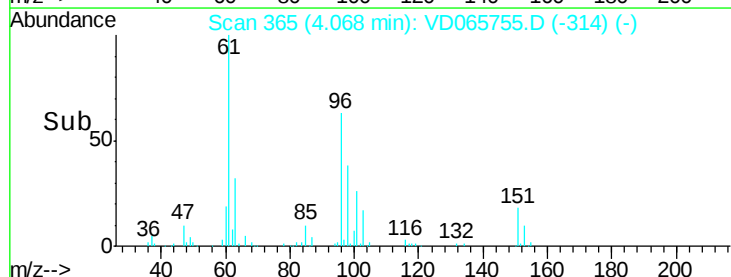
Abundance Ion 95.90 (95.60 to 96.60): VDC

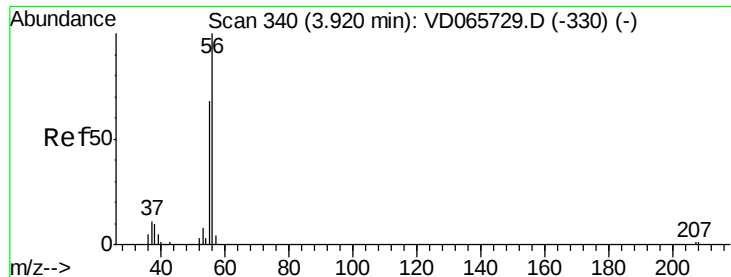
Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

4.07

Time-->





#13

Acrolein

Concen: 240.660 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

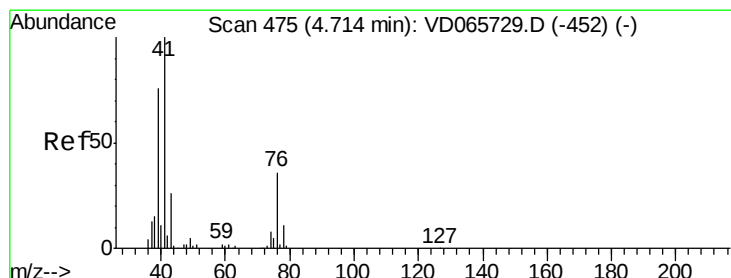
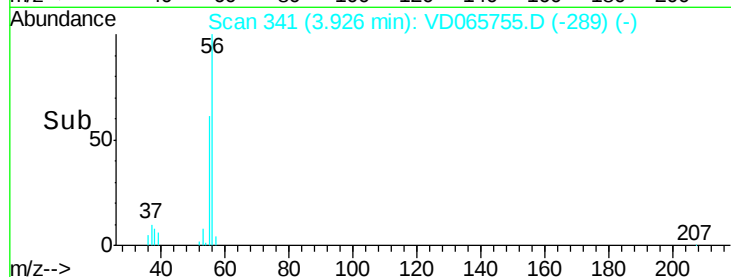
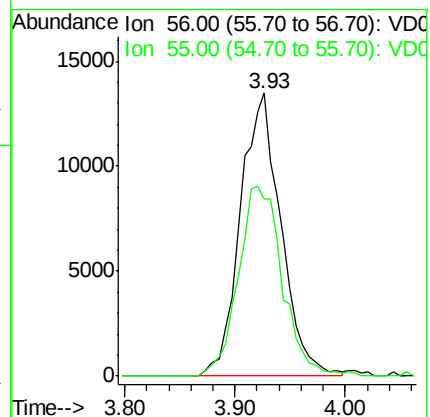
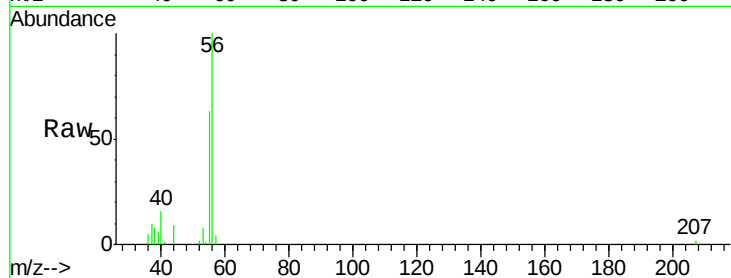
ClientSampled :

Tot Ion: 56 Resp: 34823

Ion Ratio Lower Upper

56 100

55 72.8 57.8 86.8



#14

Allyl chloride

Concen: 41.760 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

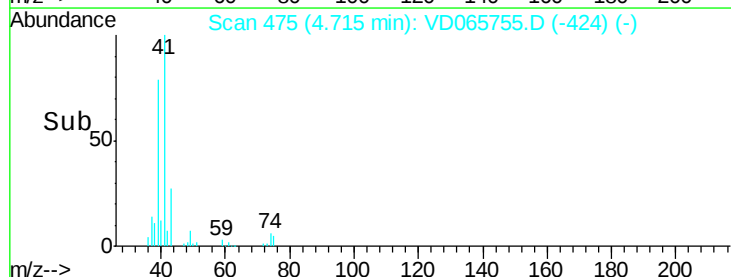
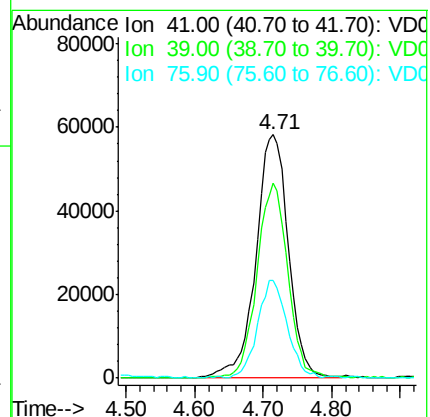
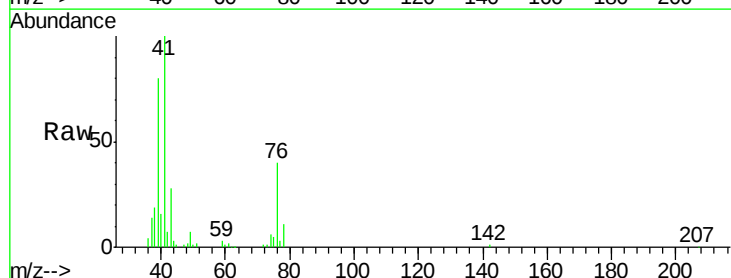
Tgt Ion: 41 Resp: 192168

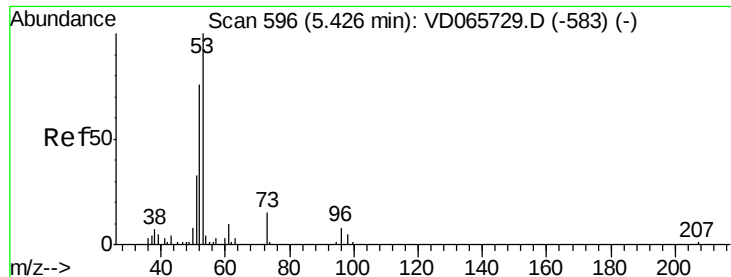
Ion Ratio Lower Upper

41 100

39 76.1 57.4 86.2

76 36.8 28.4 42.6





#15

Acrylonitrile

Concen: 217.022 ug/l

RT: 5.42 min Scan# 595

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

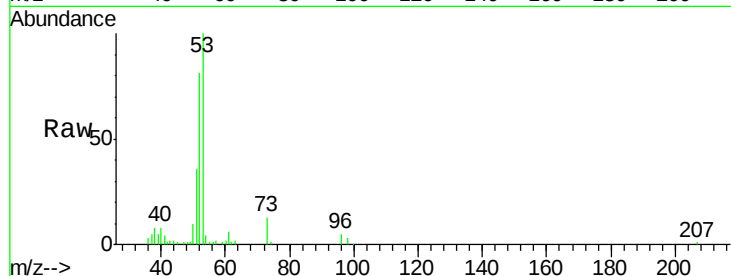
Tot Ion: 53 Resp: 125759

Ion Ratio Lower Upper

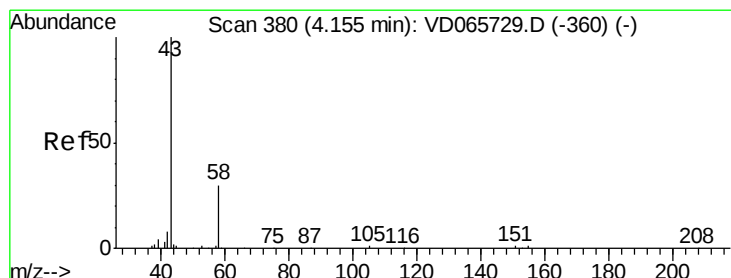
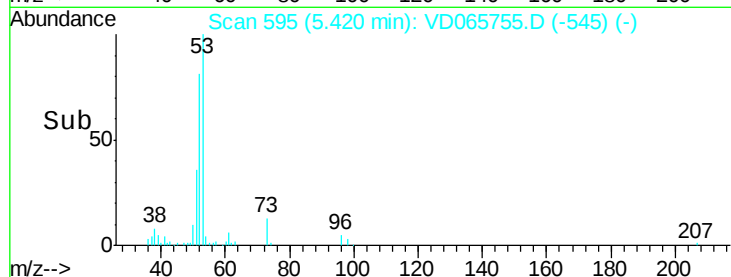
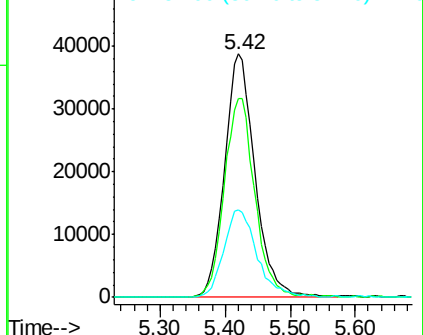
53 100

52 81.3 66.3 99.5

51 39.1 29.2 43.8



Abundance Ion 53.00 (52.70 to 53.70): VDC  
Ion 52.00 (51.70 to 52.70): VDC  
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 303.462 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD065755.D

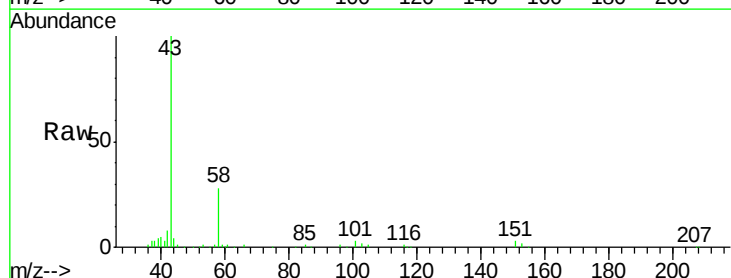
Acq: 26 May 2020 11:50

Tgt Ion: 43 Resp: 162683

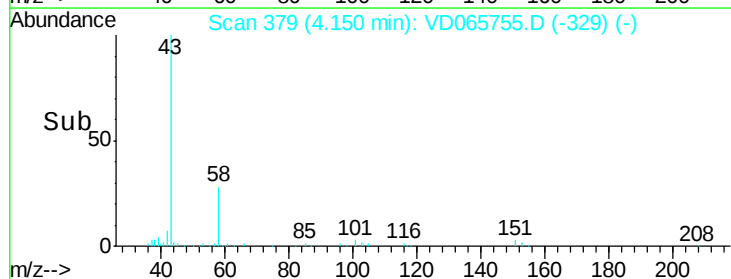
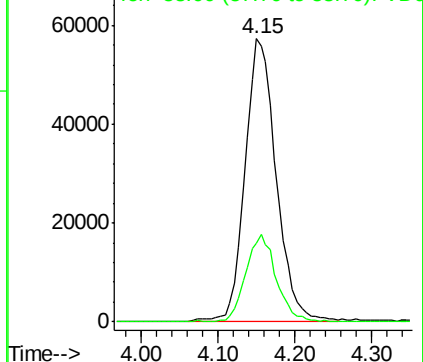
Ion Ratio Lower Upper

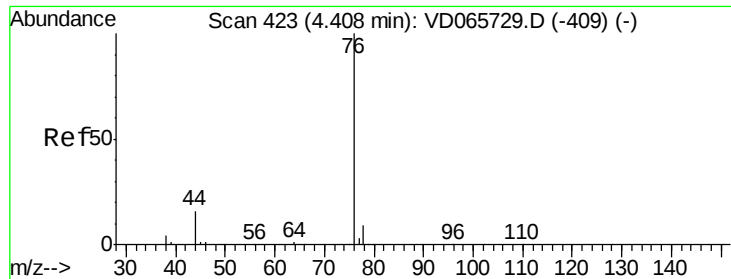
43 100

58 27.6 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

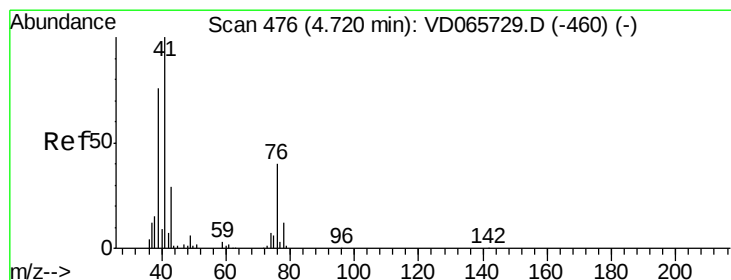
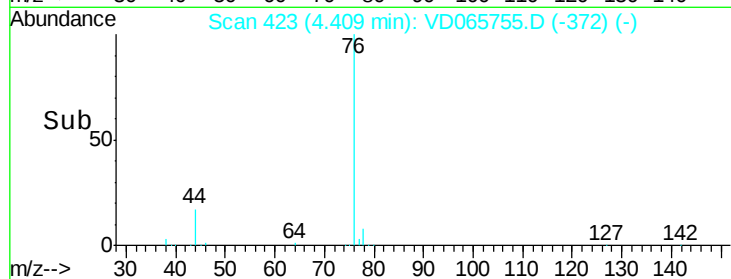
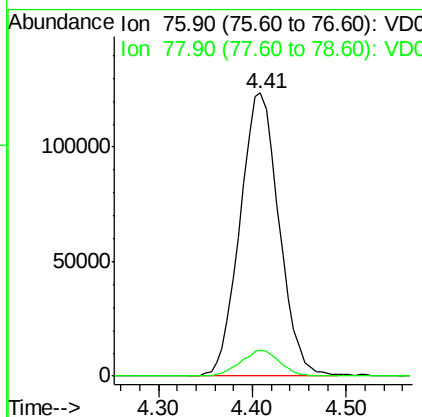
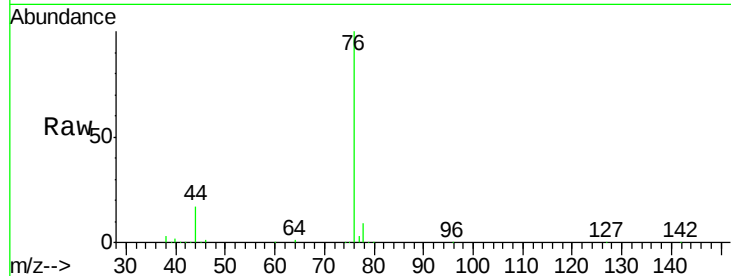




#17  
Carbon Disulfide  
Concen: 42.417 ug/l  
RT: 4.41 min Scan# 423  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

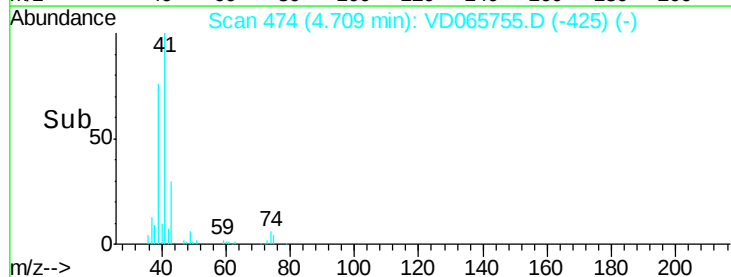
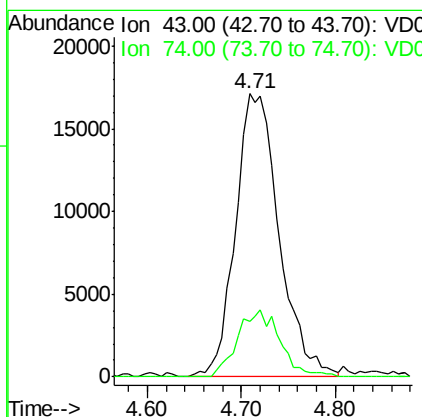
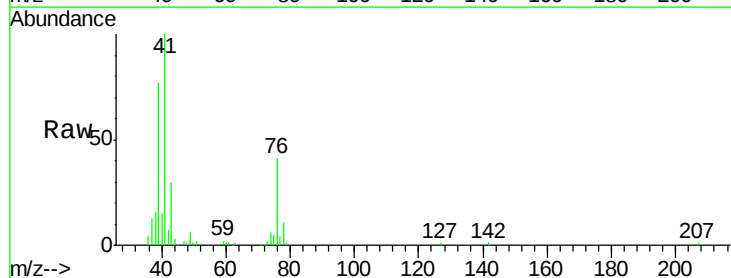
Instrument :  
MSVOA\_D  
ClientSampled :

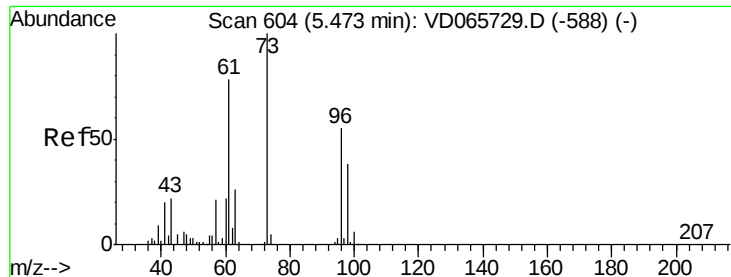
Tot Ion: 76 Resp: 356555  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.4 11.0



#18  
Methyl Acetate  
Concen: 43.554 ug/l  
RT: 4.71 min Scan# 474  
Delta R.T. -0.01 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 43 Resp: 55025  
Ion Ratio Lower Upper  
43 100  
74 23.2 18.6 27.8



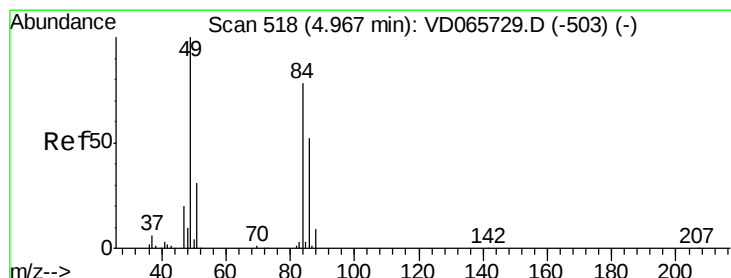
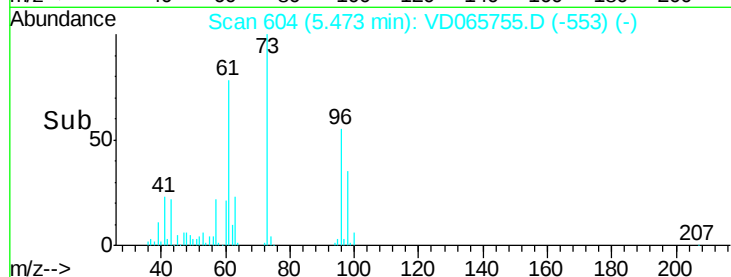
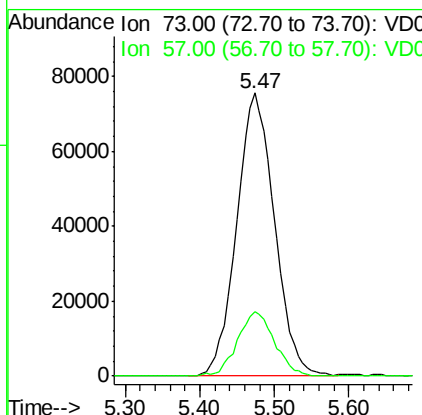
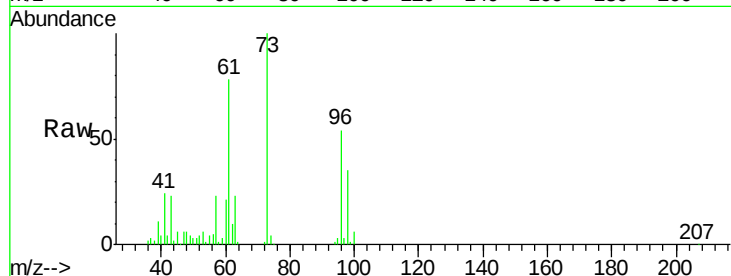


#19

Methyl tert-butyl Ether  
 Concen: 42.779 ug/l  
 RT: 5.47 min Scan# 604  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Instrument :  
 MSVOA\_D  
 ClientSampled :

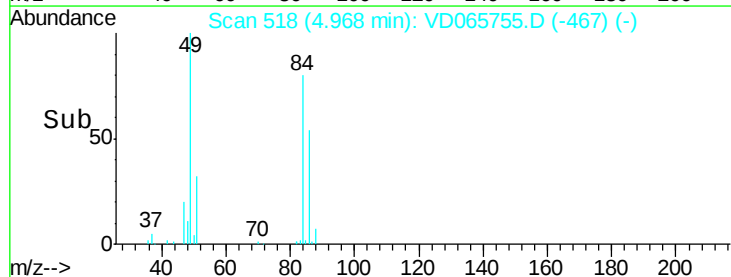
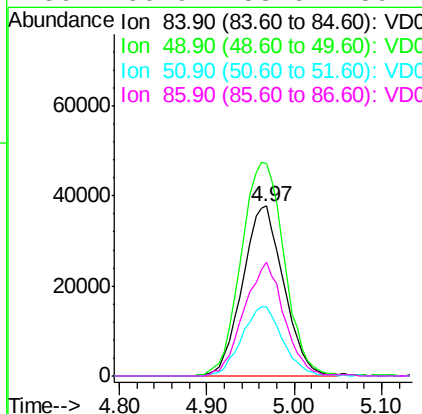
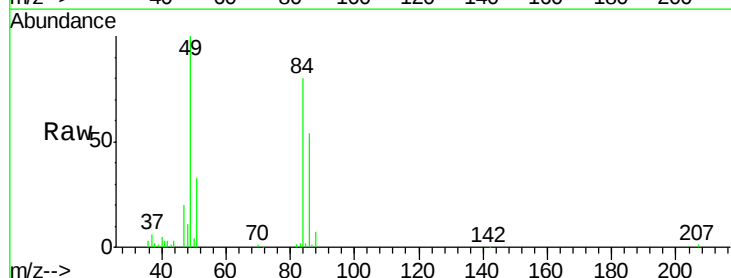
Tot Ion: 73 Resp: 265622  
 Ion Ratio Lower Upper  
 73 100  
 57 22.7 17.0 25.4

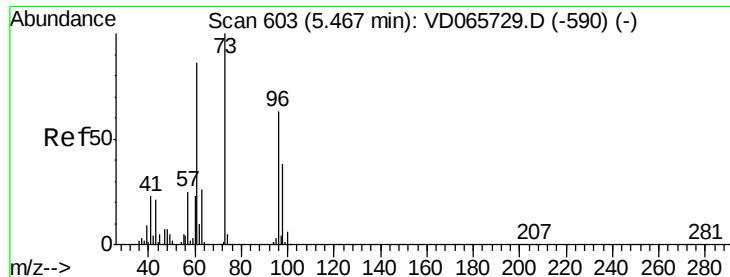


#20

Methylene Chloride  
 Concen: 40.145 ug/l  
 RT: 4.97 min Scan# 518  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Tgt Ion: 84 Resp: 121415  
 Ion Ratio Lower Upper  
 84 100  
 49 124.9 102.9 154.3  
 51 40.6 31.5 47.3  
 86 66.9 53.6 80.4





#21

trans-1,2-Dichloroethene

Concen: 43.326 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

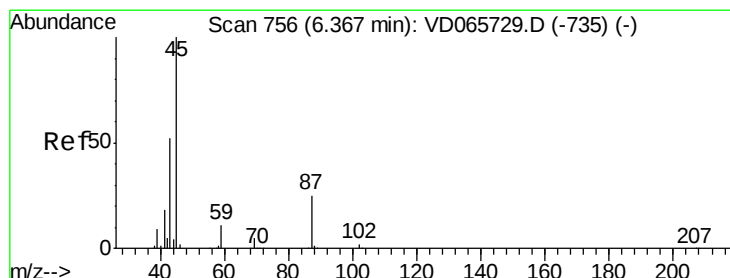
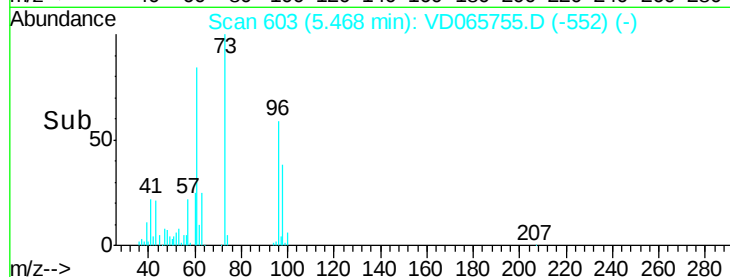
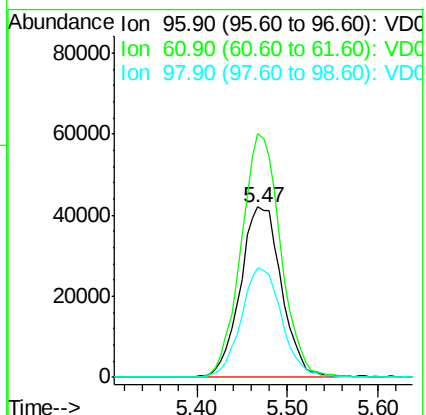
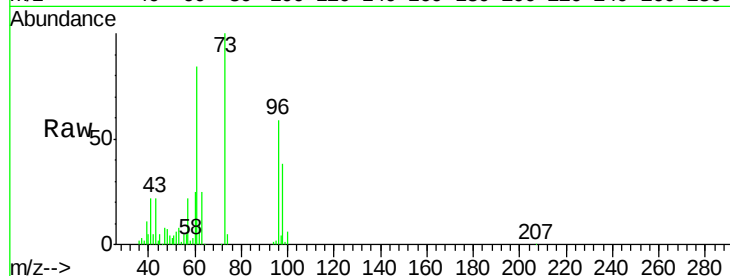
Tot Ion: 96 Resp: 132763

Ion Ratio Lower Upper

96 100

61 142.8 108.6 163.0

98 63.8 47.9 71.9



#22

Diisopropyl ether

Concen: 43.081 ug/l

RT: 6.36 min Scan# 755

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Tgt Ion: 45 Resp: 377422

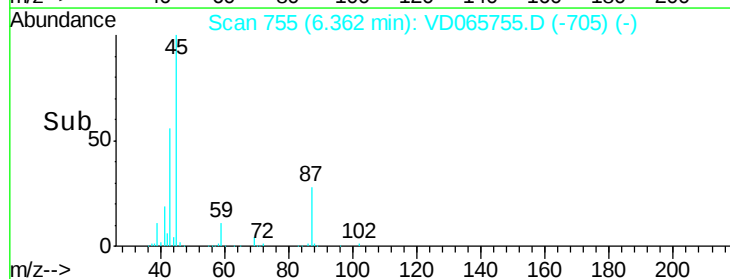
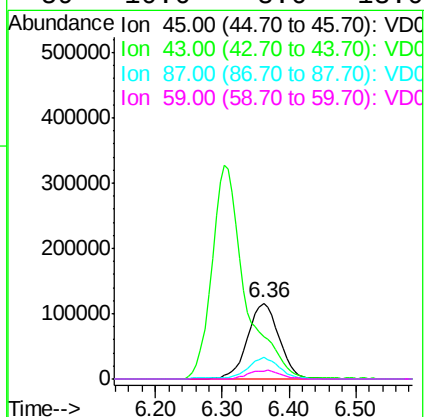
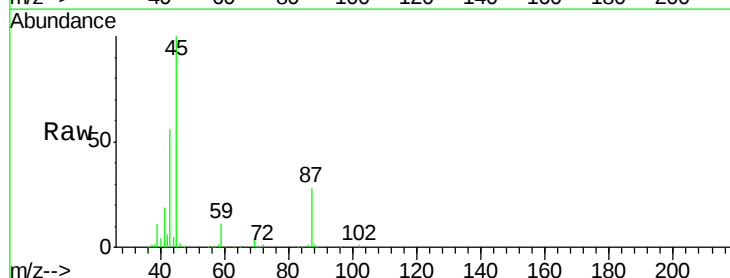
Ion Ratio Lower Upper

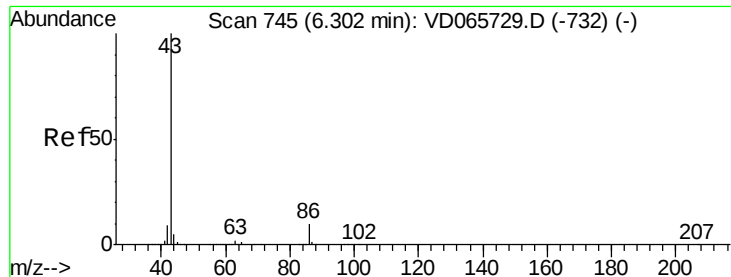
45 100

43 55.1 41.8 62.6

87 28.1 20.1 30.1

59 10.6 8.6 13.0





#23

Vinyl Acetate

Concen: 219.407 ug/l

RT: 6.30 min Scan# 745

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

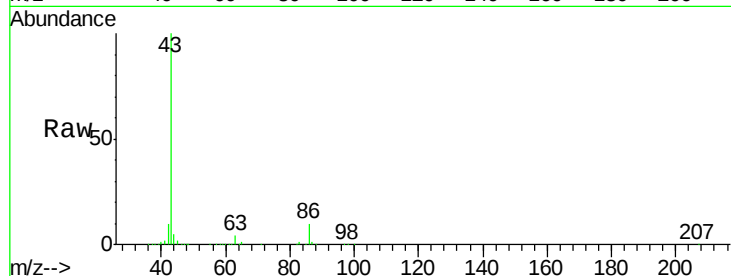
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 43 Resp: 1130580

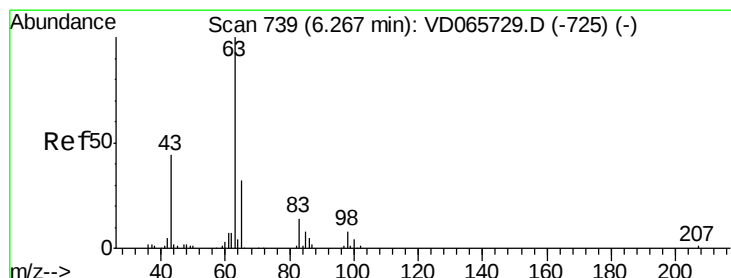
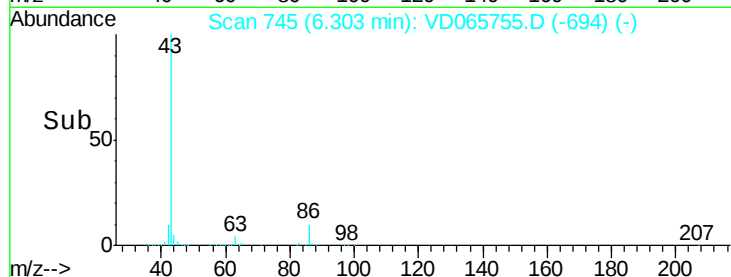
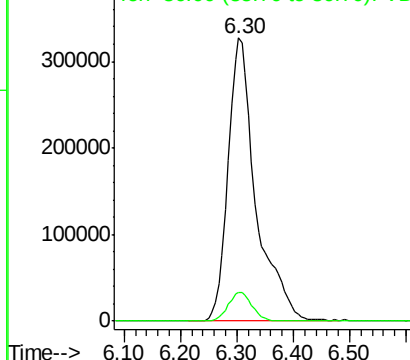
Ion Ratio Lower Upper

43 100

86 10.1 8.2 12.4



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 44.104 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

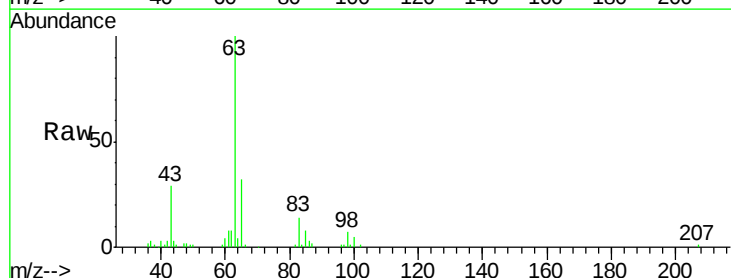
Tgt Ion: 63 Resp: 226230

Ion Ratio Lower Upper

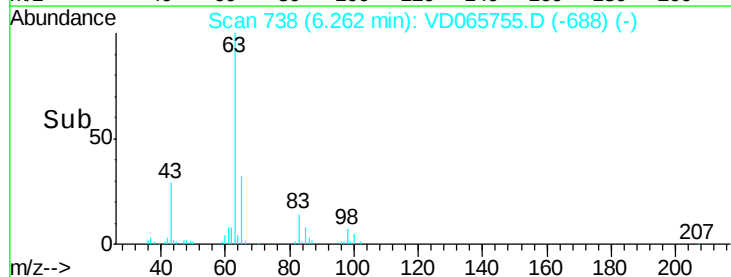
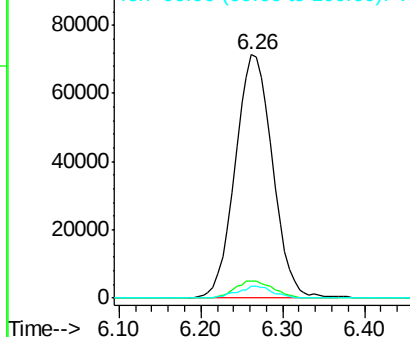
63 100

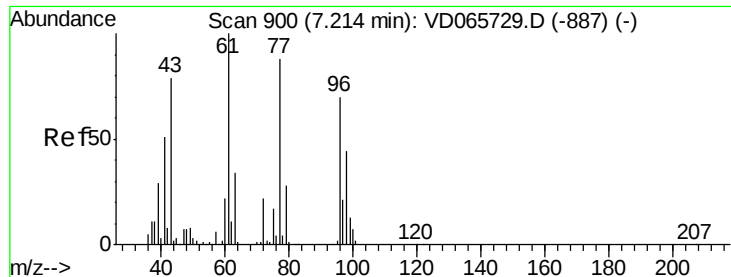
98 7.2 3.9 11.5

100 5.0 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VDC  
Ion 97.90 (97.60 to 98.60): VDC  
Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 234.140 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

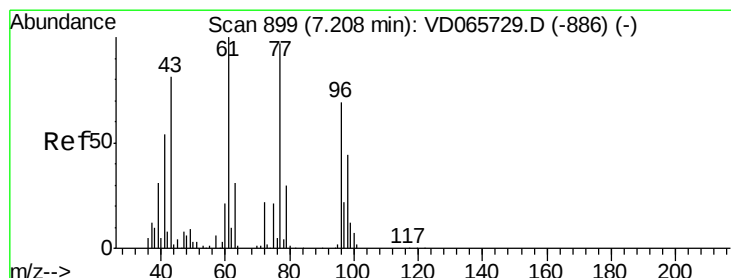
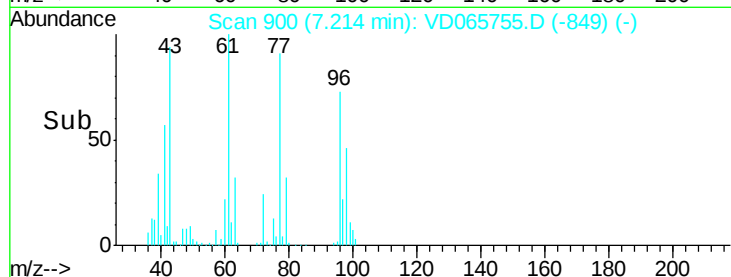
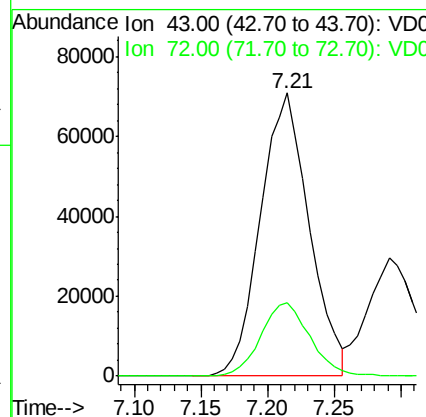
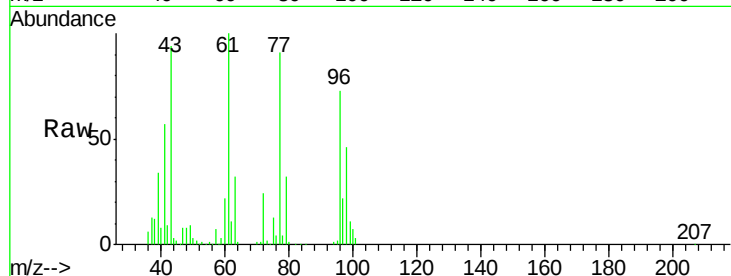
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 43 Resp: 179428

Ion Ratio Lower Upper

43 100

72 25.8 22.3 33.5



#26

2,2-Dichloropropane

Concen: 44.738 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD065755.D

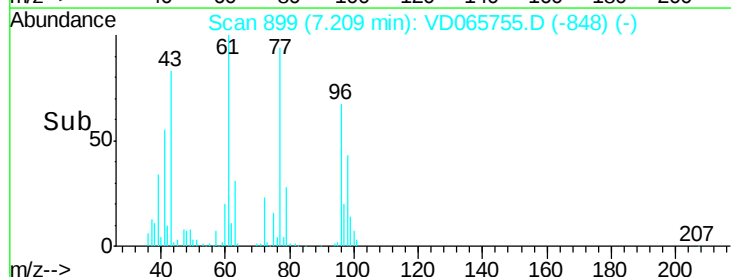
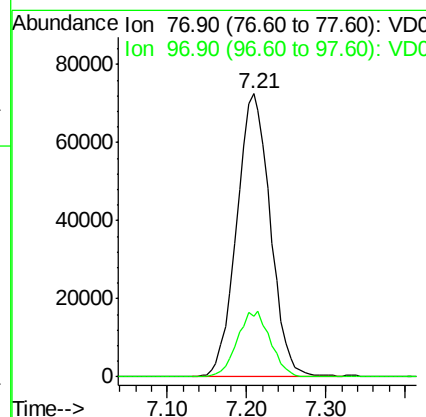
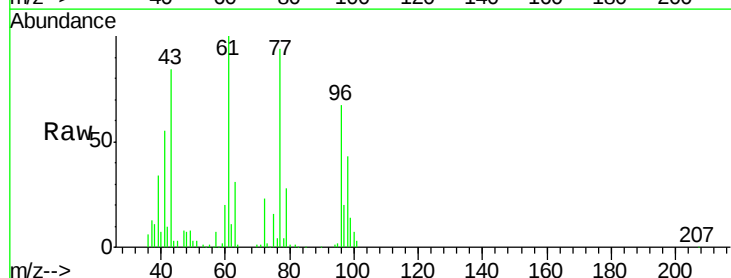
Acq: 26 May 2020 11:50

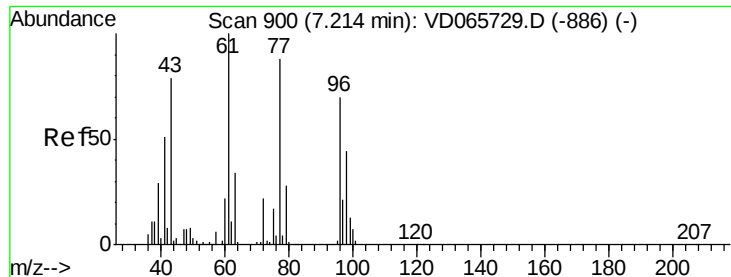
Tgt Ion: 77 Resp: 212991

Ion Ratio Lower Upper

77 100

97 22.7 11.3 33.9



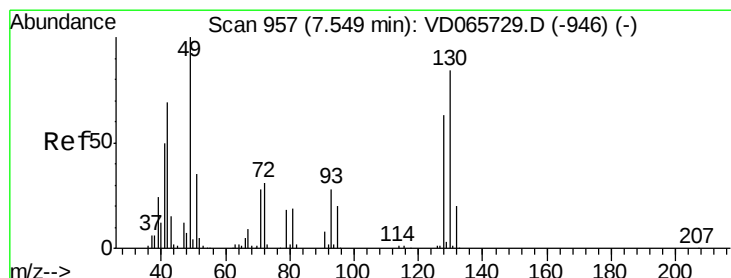
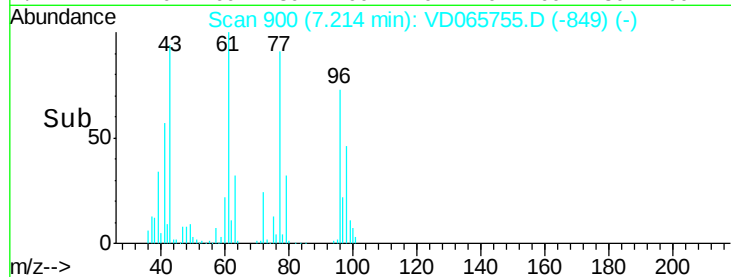
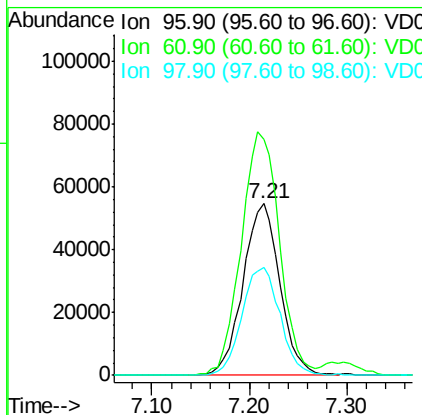
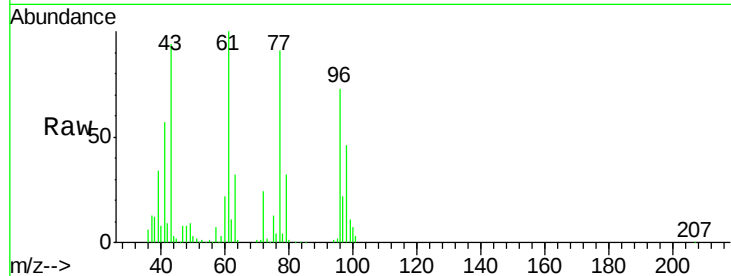


#27

cis-1,2-Dichloroethene  
 Concen: 42.803 ug/l  
 RT: 7.21 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Instrument :  
 MSVOA\_D  
 ClientSampleId :

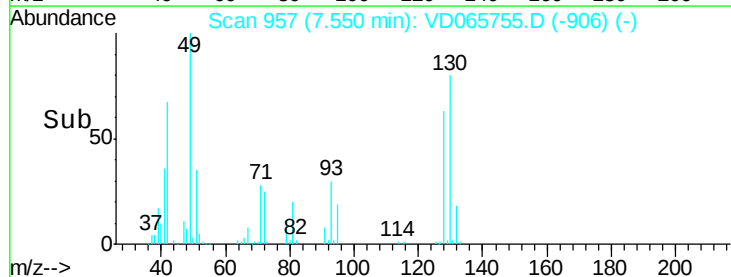
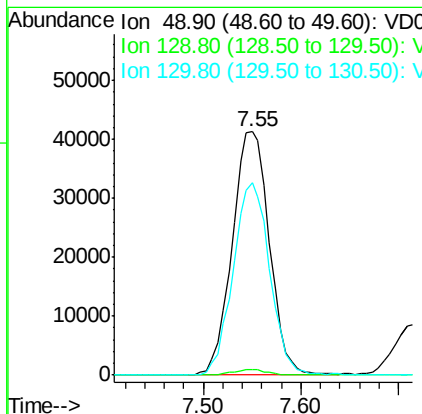
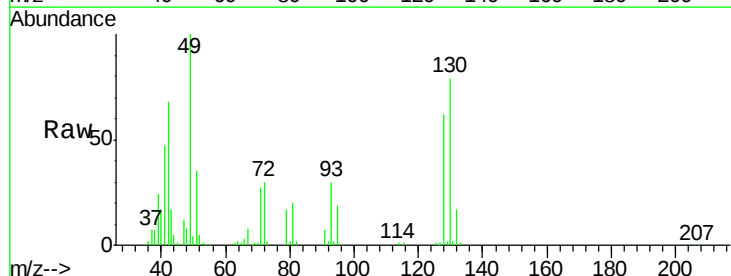
Tot Ion: 96 Resp: 143733  
 Ion Ratio Lower Upper  
 96 100  
 61 147.1 0.0 288.0  
 98 65.2 0.0 127.8

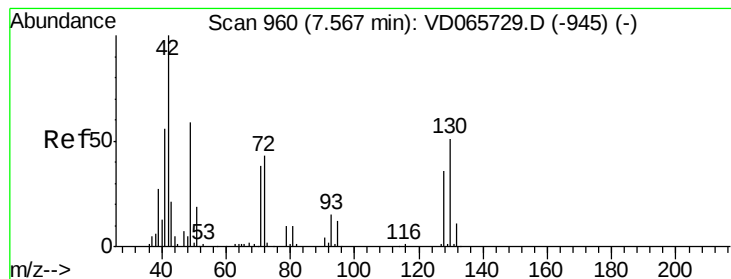


#28

Bromochloromethane  
 Concen: 51.632 ug/l  
 RT: 7.55 min Scan# 957  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Tgt Ion: 49 Resp: 108891  
 Ion Ratio Lower Upper  
 49 100  
 129 2.1 0.0 4.6  
 130 77.9 65.2 97.8





#29

Tetrahydrofuran

Concen: 215.103 ug/l

RT: 7.56 min Scan# 959

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :  
MSVOA\_D  
ClientSampleId :

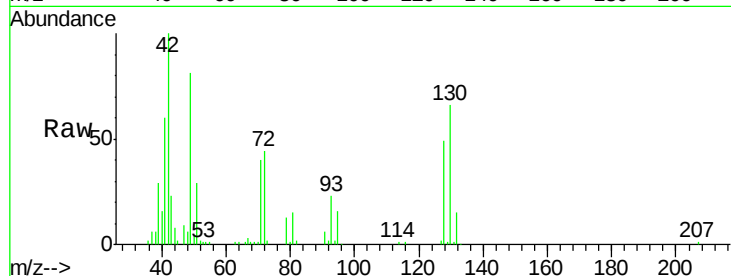
Tot Ion: 42 Resp: 104512

Ion Ratio Lower Upper

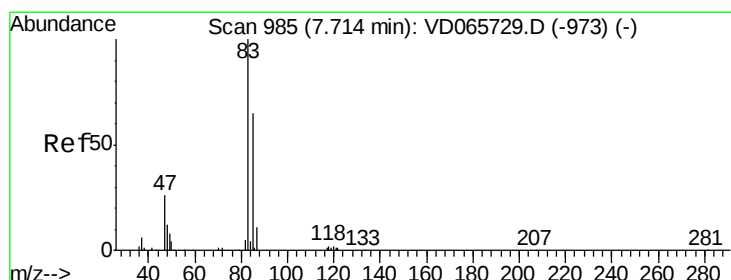
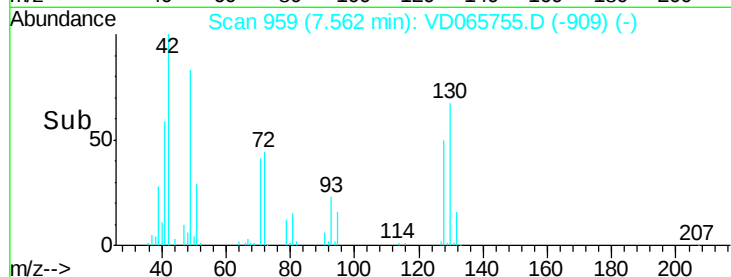
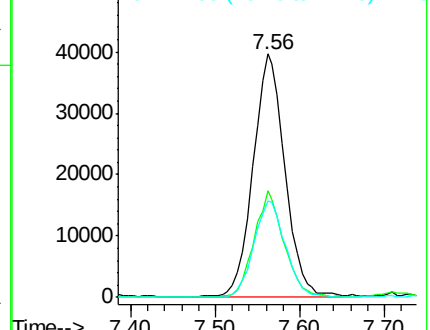
42 100

72 41.0 33.5 50.3

71 39.0 31.8 47.6



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



#30

Chloroform

Concen: 45.364 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD065755.D

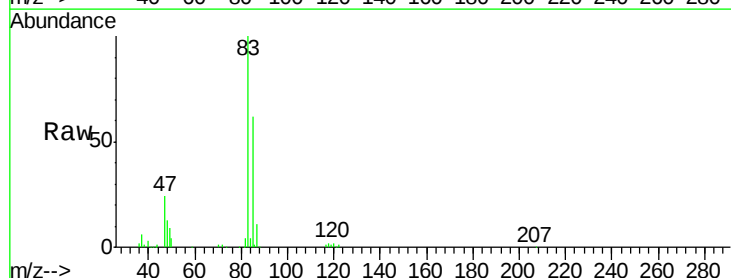
Acq: 26 May 2020 11:50

Tgt Ion: 83 Resp: 235169

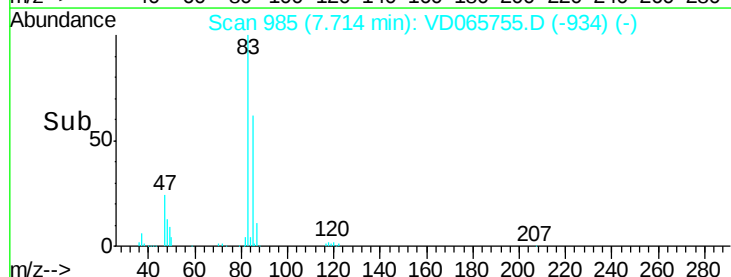
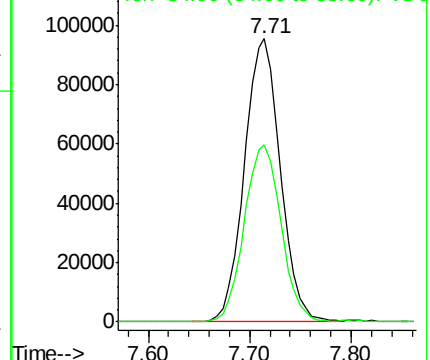
Ion Ratio Lower Upper

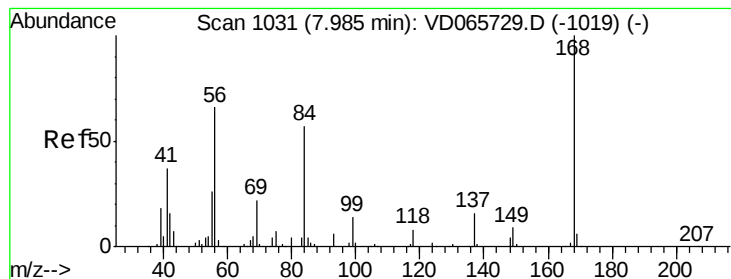
83 100

85 62.4 52.2 78.2



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





#31

Cyclohexane

Concen: 42.305 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :  
MSVOA\_D  
ClientSampleId :

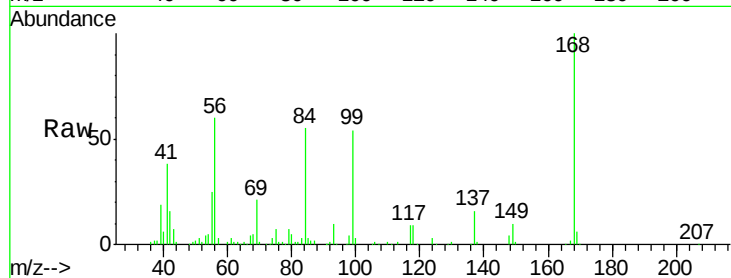
Tot Ion: 56 Resp: 219663

Ion Ratio Lower Upper

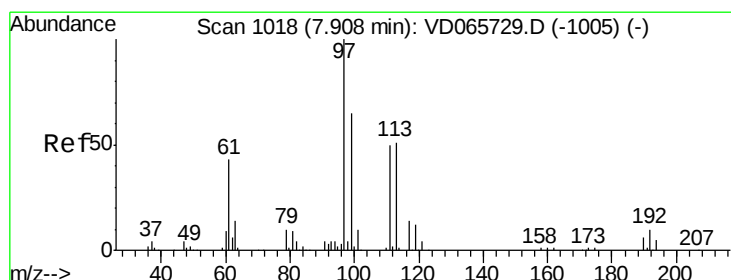
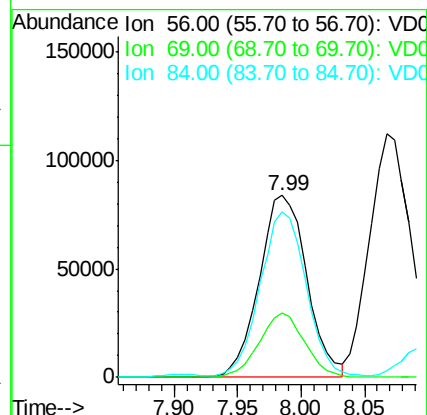
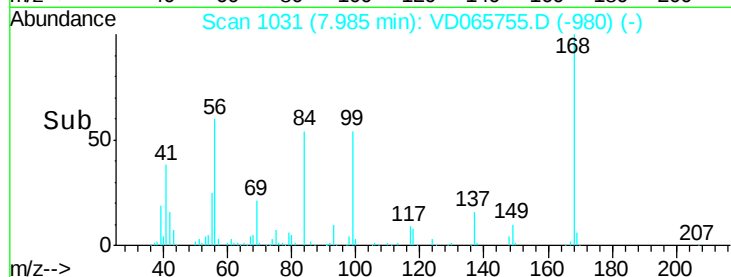
56 100

69 35.5 25.9 38.9

84 89.4 69.1 103.7



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC



#32

1,1,1-Trichloroethane

Concen: 45.164 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

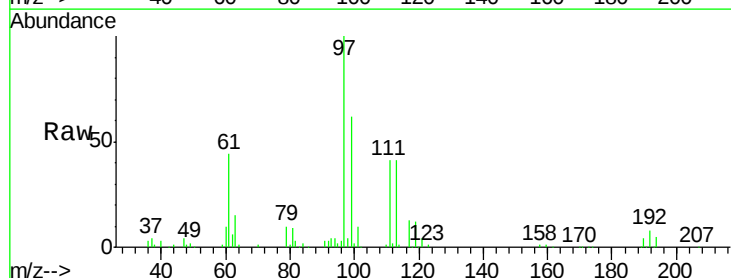
Tgt Ion: 97 Resp: 219325

Ion Ratio Lower Upper

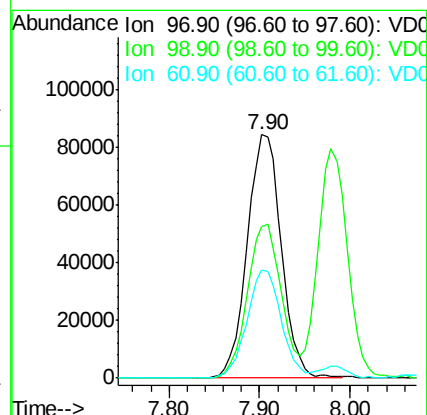
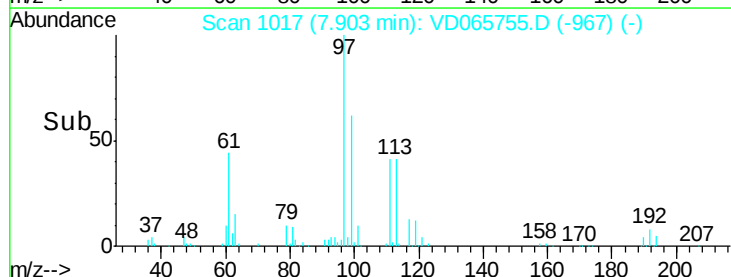
97 100

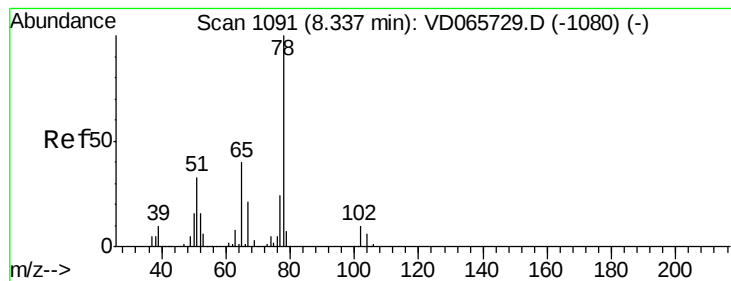
99 63.3 50.5 75.7

61 44.9 33.9 50.9



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





#33

1,2-Dichloroethane-d4

Concen: 48.377 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

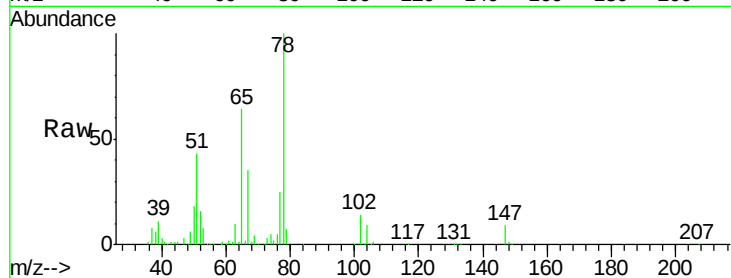
ClientSampleId :

Tot Ion: 65 Resp: 126436

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

60000

50000

40000

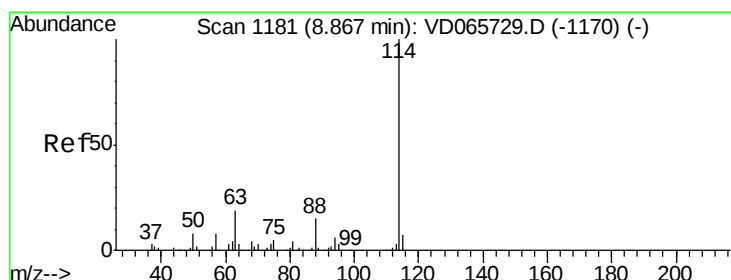
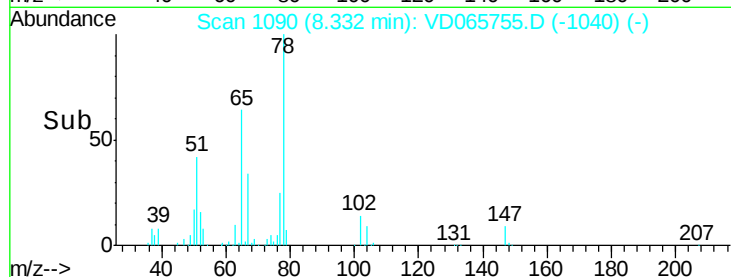
30000

20000

10000

0

Time--> 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

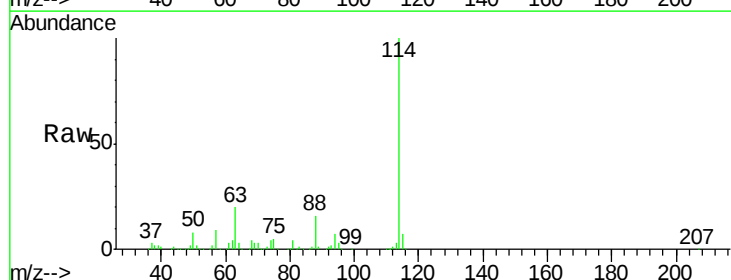
Tgt Ion: 114 Resp: 482410

Ion Ratio Lower Upper

114 100

63 20.3 0.0 37.2

88 16.0 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

300000

250000

200000

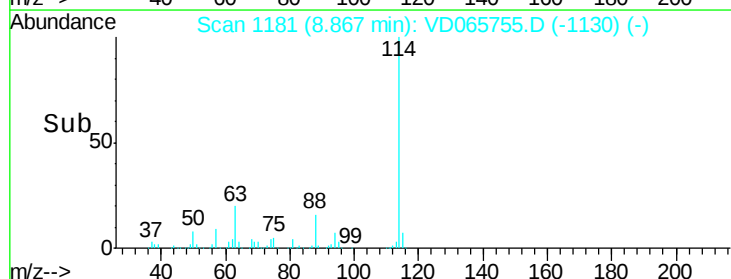
150000

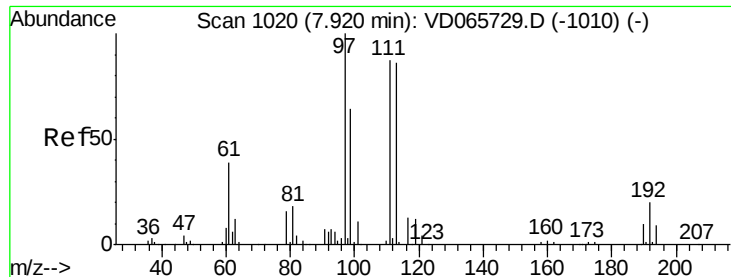
100000

50000

0

Time--> 8.80 8.90 9.00

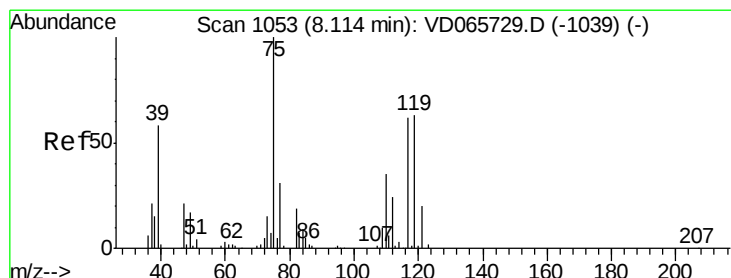
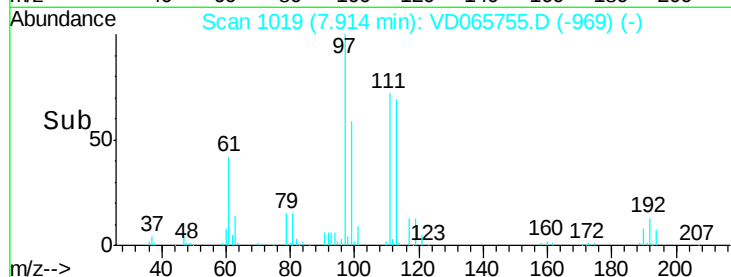
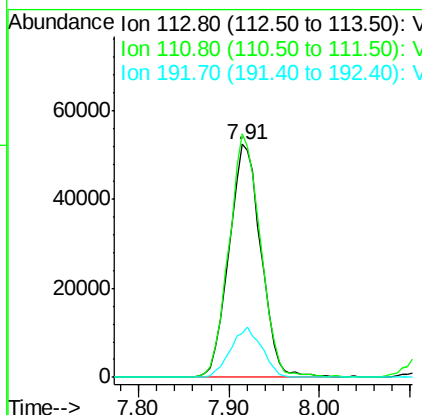
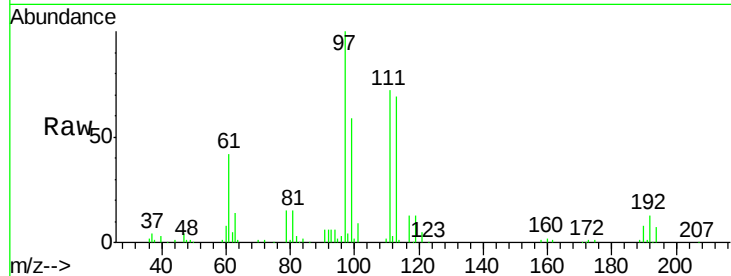




#35  
 Dibromofluoromethane  
 Concen: 46.953 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

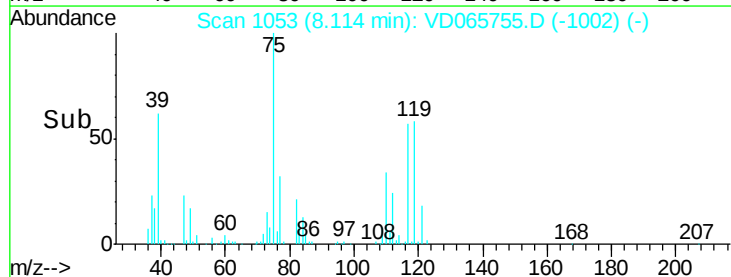
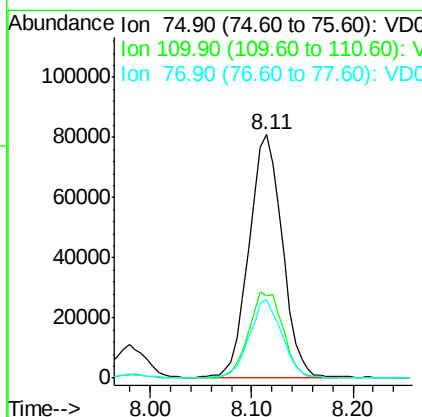
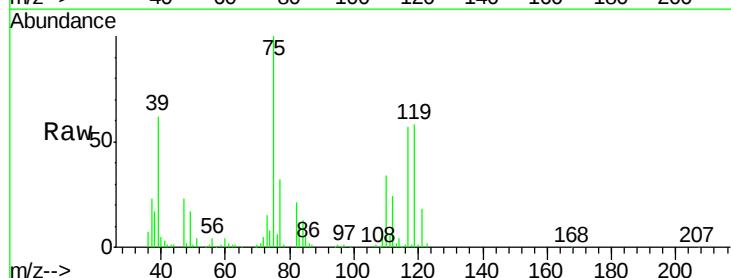
Instrument :  
 MSVOA\_D  
 ClientSampleId :

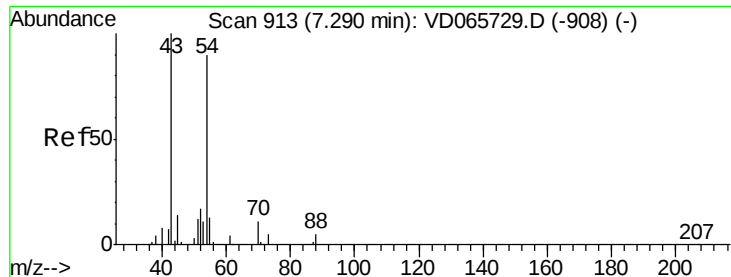
Tot Ion:113 Resp: 128321  
 Ion Ratio Lower Upper  
 113 100  
 111 103.1 81.1 121.7  
 192 21.3 17.6 26.4



#36  
 1,1-Dichloropropene  
 Concen: 44.272 ug/l  
 RT: 8.11 min Scan# 1053  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Tgt Ion: 75 Resp: 185474  
 Ion Ratio Lower Upper  
 75 100  
 110 36.8 18.4 55.2  
 77 31.9 24.6 37.0

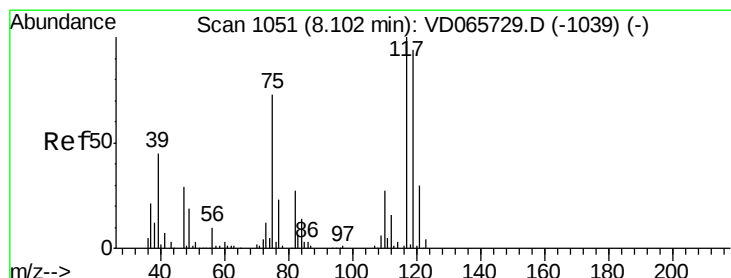
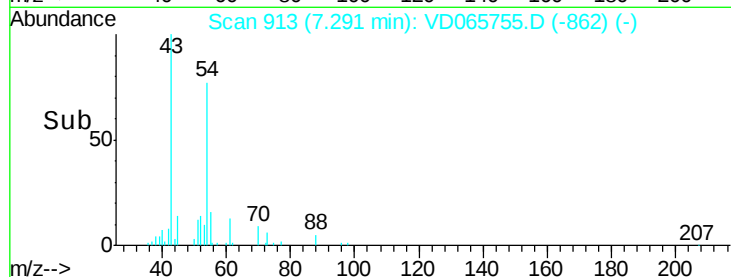
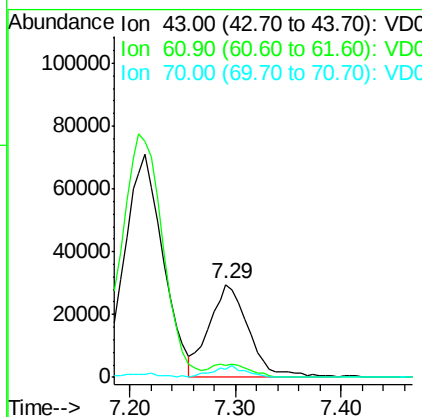
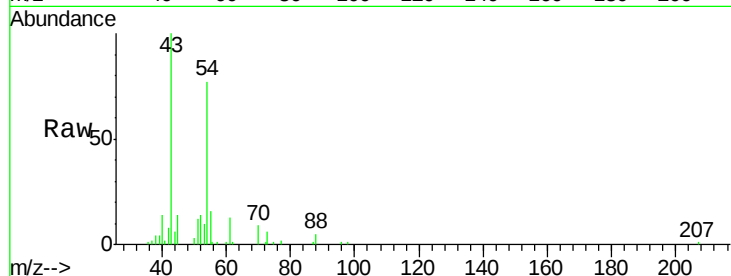




#37  
Ethyl Acetate  
Concen: 41.961 ug/l  
RT: 7.29 min Scan# 913  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

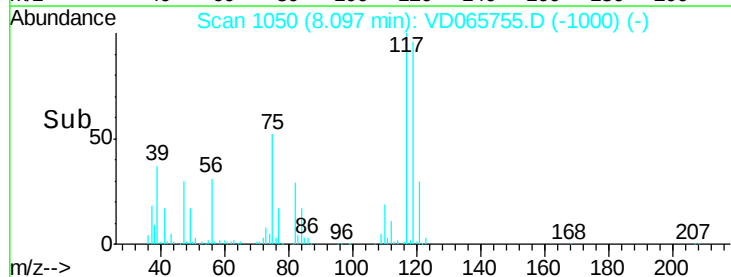
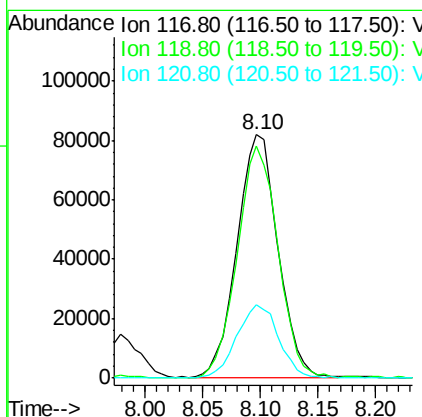
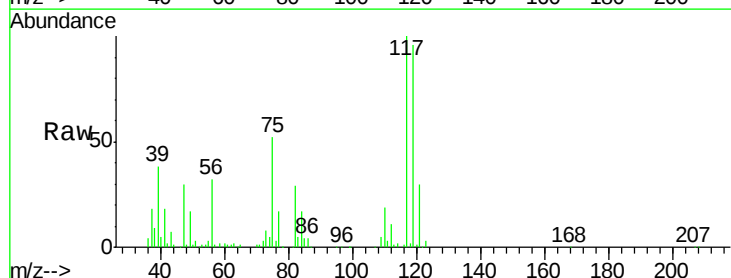
Instrument :  
MSVOA\_D  
ClientSampled :

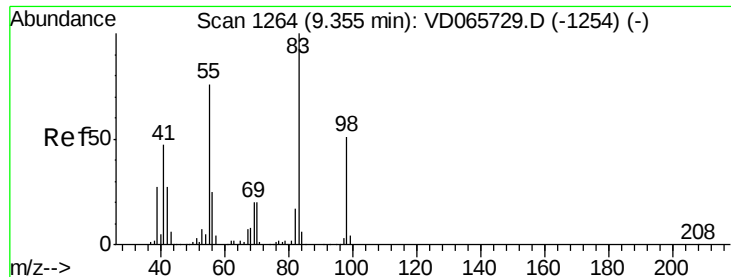
Tot Ion: 43 Resp: 75311  
Ion Ratio Lower Upper  
43 100  
61 13.6 9.8 14.6  
70 10.1 8.6 12.8



#38  
Carbon Tetrachloride  
Concen: 45.126 ug/l  
RT: 8.10 min Scan# 1050  
Delta R.T. -0.01 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 117 Resp: 200518  
Ion Ratio Lower Upper  
117 100  
119 95.6 75.6 113.4  
121 30.0 24.4 36.6

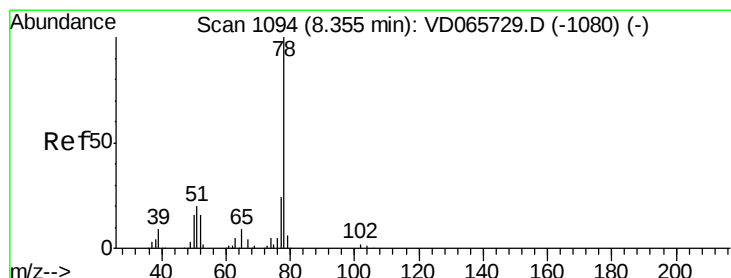
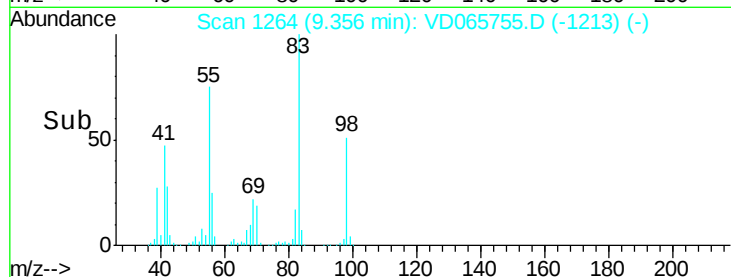
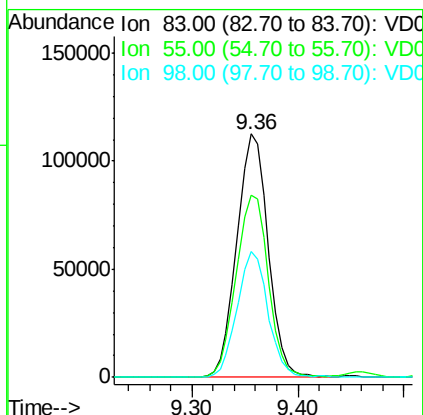
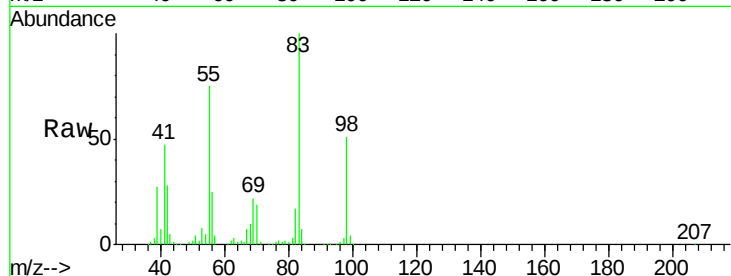




#39  
Methvlcvclohexane  
Concen: 43.382 ug/l  
RT: 9.36 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

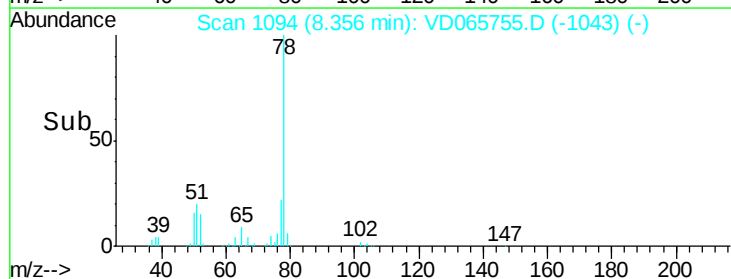
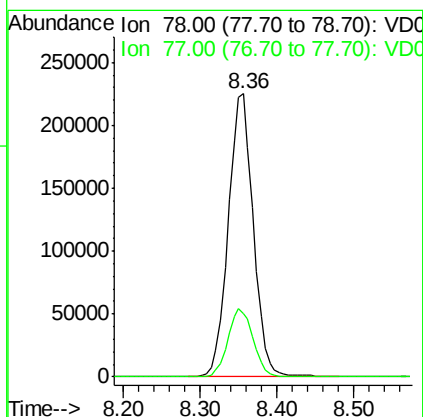
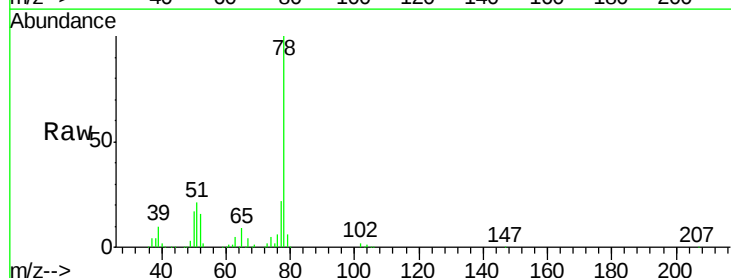
Instrument :  
MSVOA\_D  
ClientSampleId :

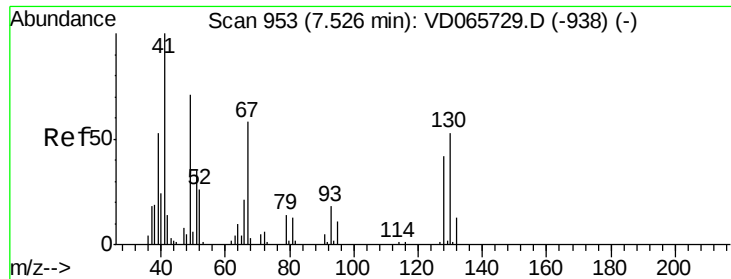
Tot Ion: 83 Resp: 232919  
Ion Ratio Lower Upper  
83 100  
55 74.8 60.9 91.3  
98 51.4 40.6 61.0



#40  
Benzene  
Concen: 44.295 ug/l  
RT: 8.36 min Scan# 1094  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 78 Resp: 510282  
Ion Ratio Lower Upper  
78 100  
77 22.3 19.1 28.7

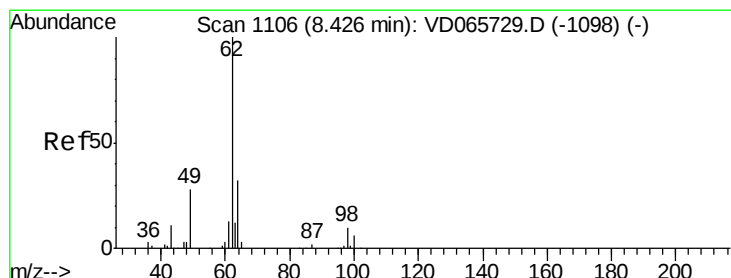
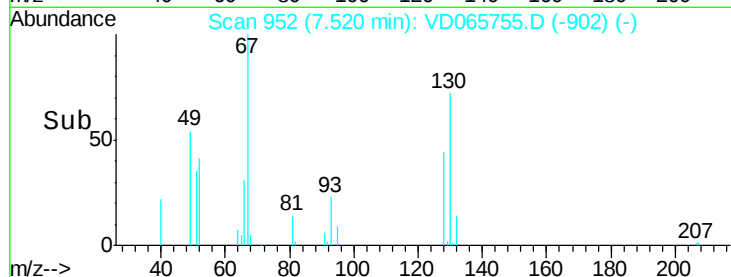
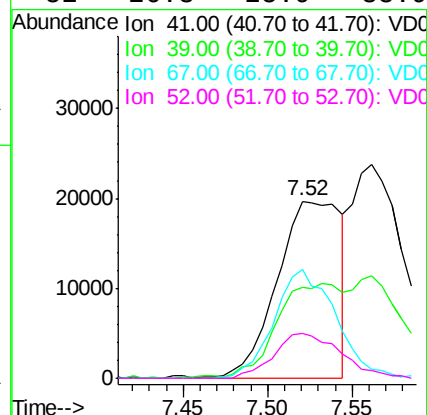
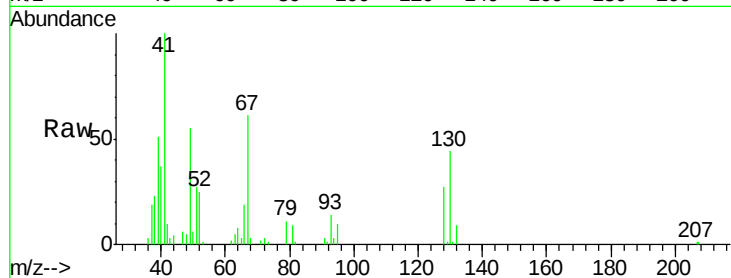




#41  
Methacrylonitrile  
Concen: 52.398 ug/l  
RT: 7.52 min Scan# 952  
Delta R.T. -0.01 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

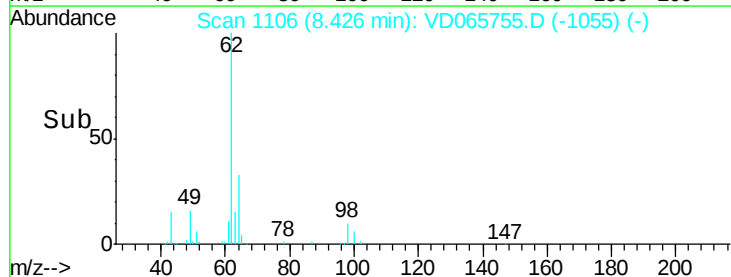
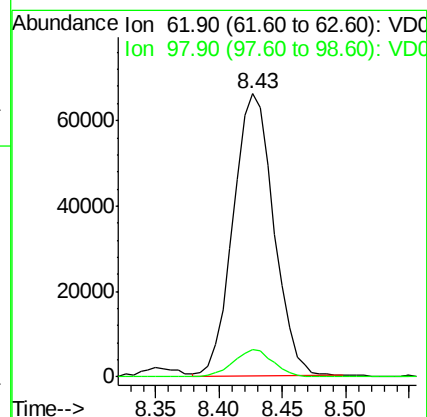
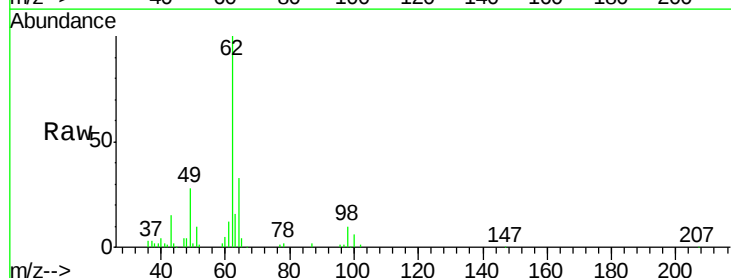
Instrument :  
MSVOA\_D  
ClientSampleId :

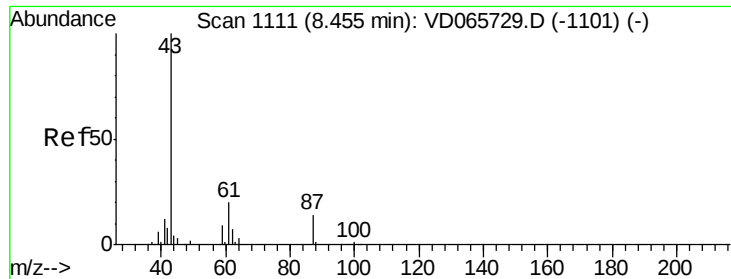
Tot Ion: 41 Resp: 51793  
Ion Ratio Lower Upper  
41 100  
39 54.3 56.8 85.2#  
67 59.5 57.9 86.9  
52 26.3 25.9 38.9



#42  
1,2-Dichloroethane  
Concen: 45.736 ug/l  
RT: 8.43 min Scan# 1106  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 62 Resp: 146702  
Ion Ratio Lower Upper  
62 100  
98 9.4 0.0 19.6





#43

Isopropyl Acetate

Concen: 42.122 ug/l

RT: 8.45 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

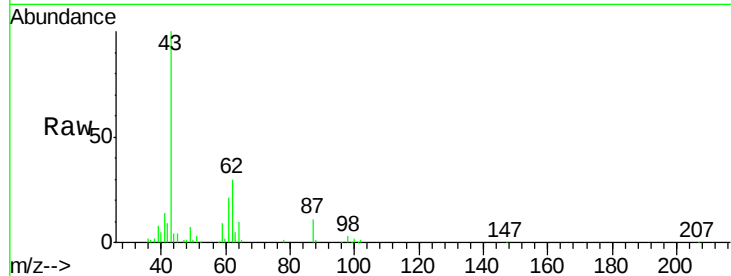
Tot Ion: 43 Resp: 149843

Ion Ratio Lower Upper

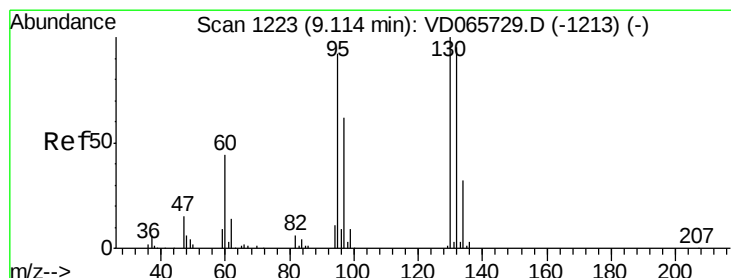
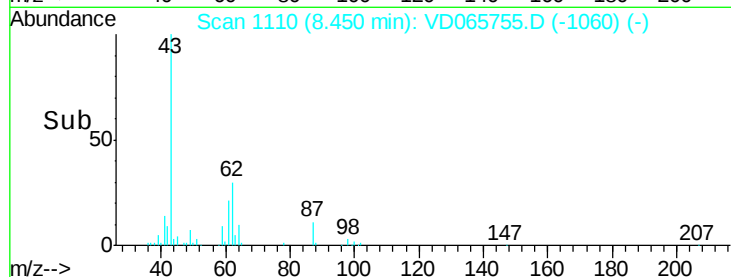
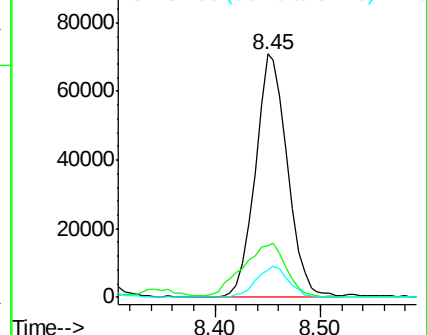
43 100

61 30.3 23.8 35.6

87 12.7 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 61.00 (60.70 to 61.70): VDC  
Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 42.810 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD065755.D

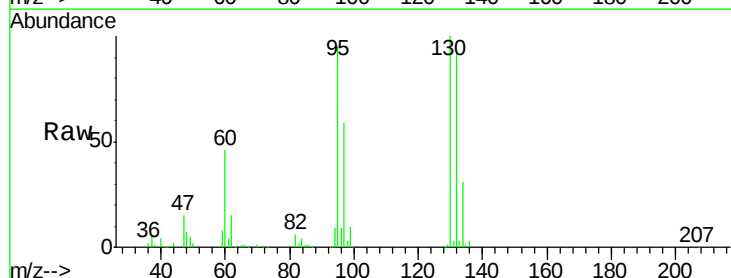
Acq: 26 May 2020 11:50

Tgt Ion:130 Resp: 147646

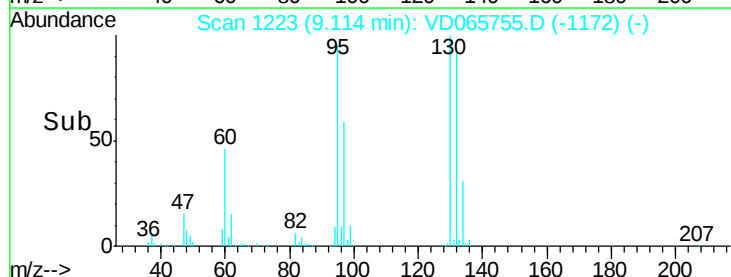
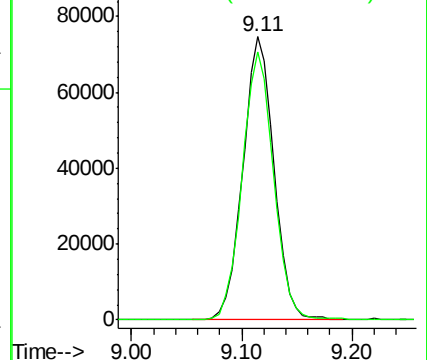
Ion Ratio Lower Upper

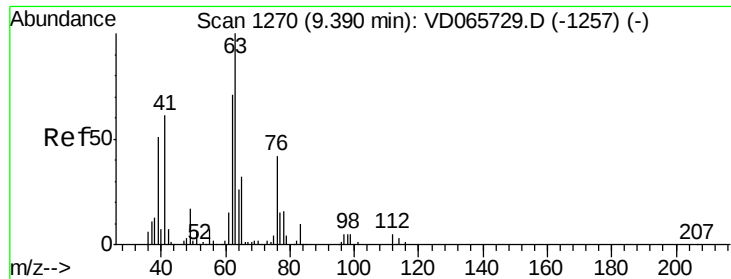
130 100

95 94.6 0.0 183.6



Abundance Ion 129.80 (129.50 to 130.50): VDC  
Ion 94.90 (94.60 to 95.60): VDC

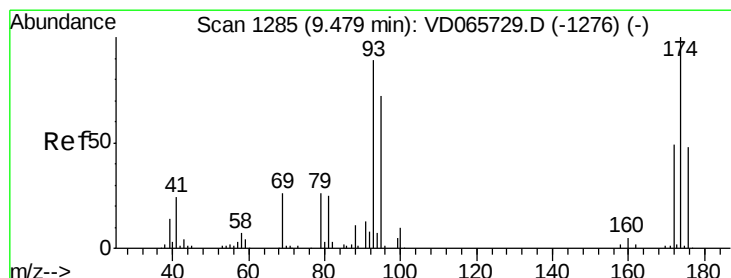
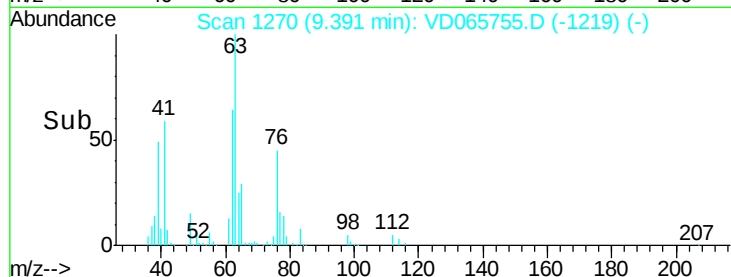
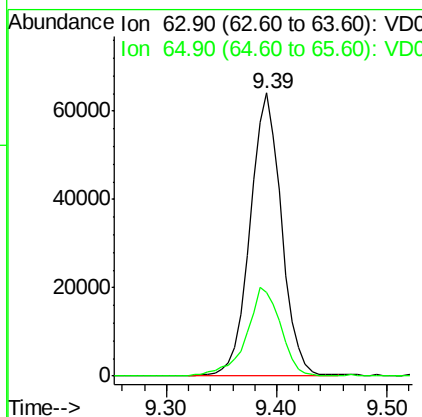
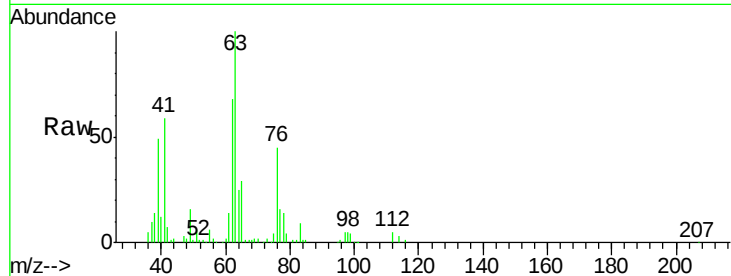




#45  
 1,2-Dichloropropane  
 Concen: 45.145 ug/l  
 RT: 9.39 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

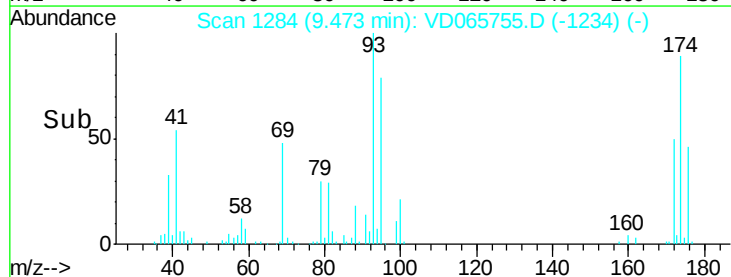
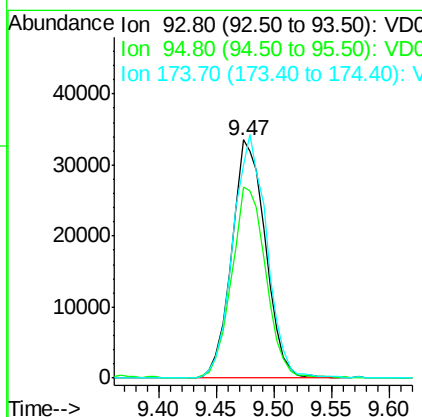
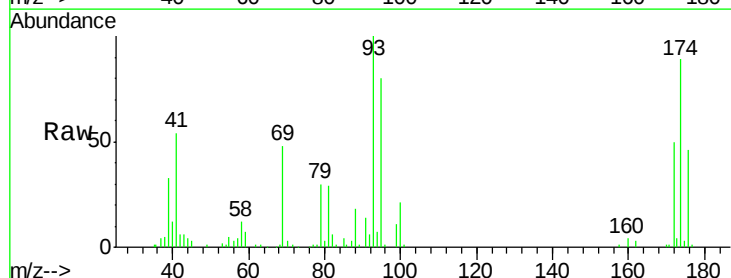
Instrument :  
 MSVOA\_D  
 ClientSampleId :

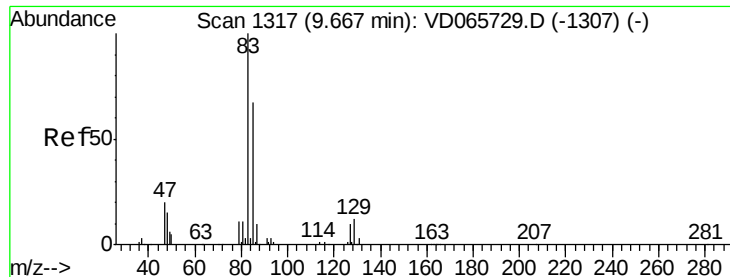
Tot Ion: 63 Resp: 128228  
 Ion Ratio Lower Upper  
 63 100  
 65 29.4 25.3 37.9



#46  
 Dibromomethane  
 Concen: 44.259 ug/l  
 RT: 9.47 min Scan# 1284  
 Delta R.T. -0.01 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Tgt Ion: 93 Resp: 67786  
 Ion Ratio Lower Upper  
 93 100  
 95 81.6 65.4 98.2  
 174 102.5 89.9 134.9





#47

Bromodichloromethane

Concen: 44.941 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

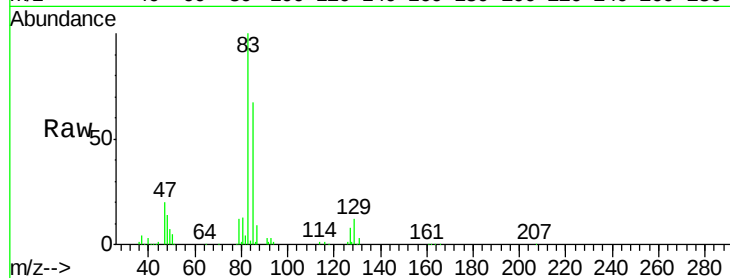
Tot Ion: 83 Resp: 180164

Ion Ratio Lower Upper

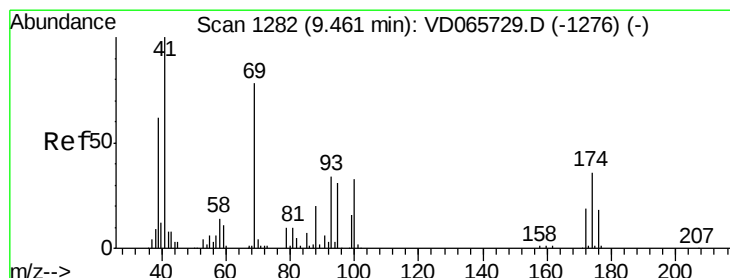
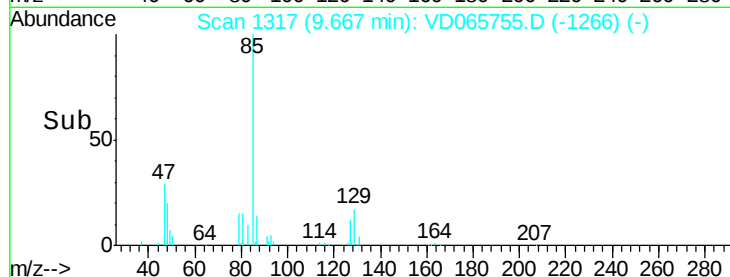
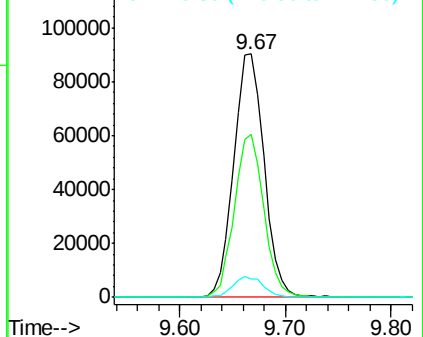
83 100

85 67.0 53.6 80.4

127 7.8 7.7 11.5



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 84.90 (84.60 to 85.60): VDC  
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 43.659 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

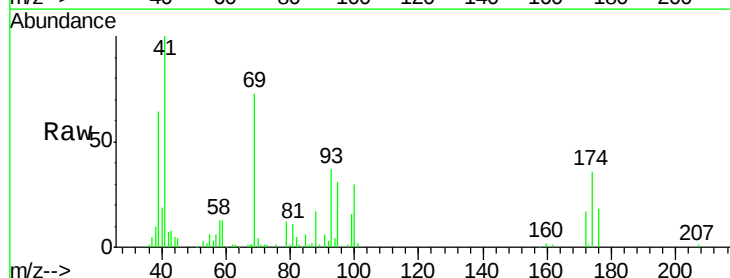
Tgt Ion: 41 Resp: 72903

Ion Ratio Lower Upper

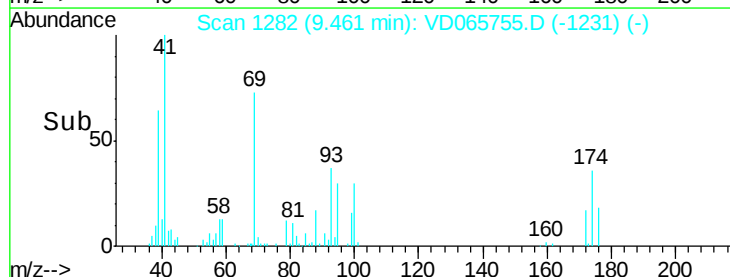
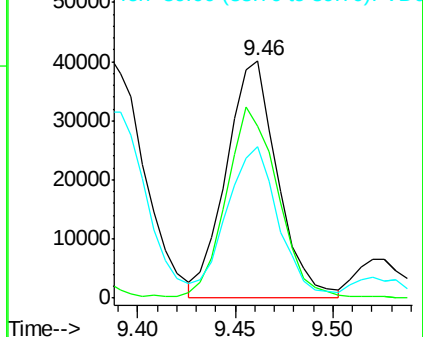
41 100

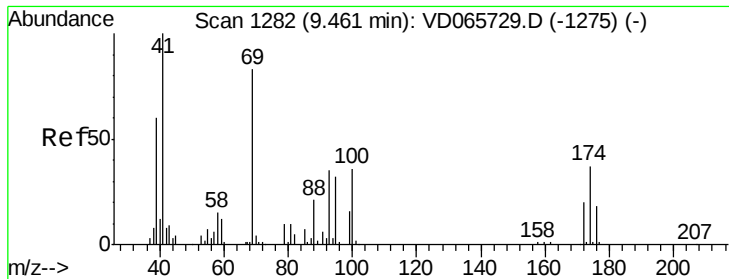
69 81.6 64.4 96.6

39 59.2 46.7 70.1



Abundance Ion 41.00 (40.70 to 41.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 39.00 (38.70 to 39.70): VDC

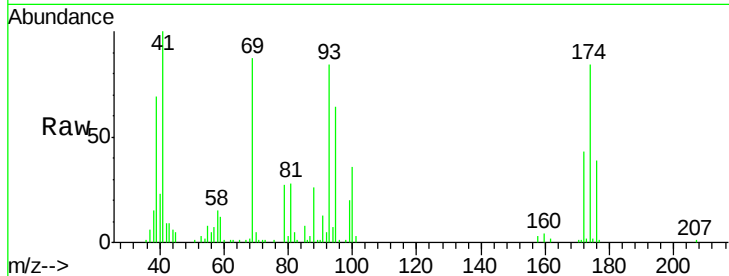




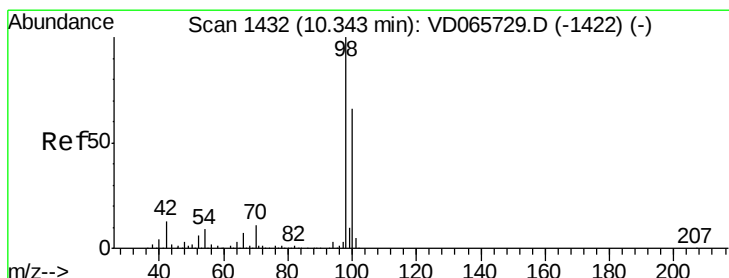
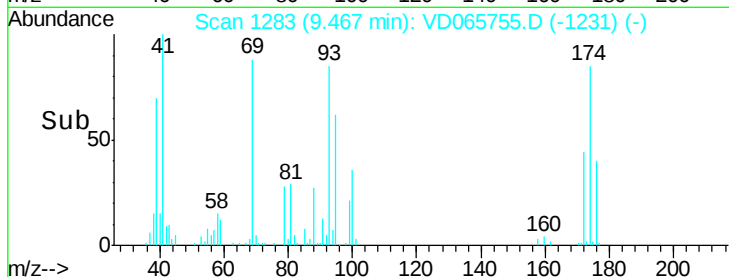
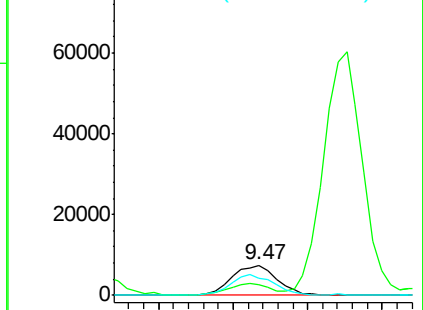
#49  
1,4-Dioxane  
Concen: 872.606 ug/l  
RT: 9.47 min Scan# 1283  
Delta R.T. 0.01 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 88 Resp: 15769  
Ion Ratio Lower Upper  
88 100  
43 38.8 29.4 44.0  
58 65.9 55.1 82.7

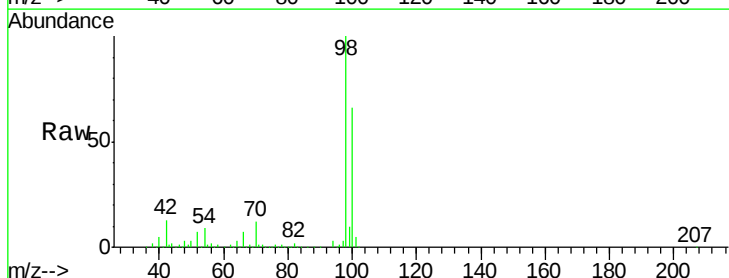


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

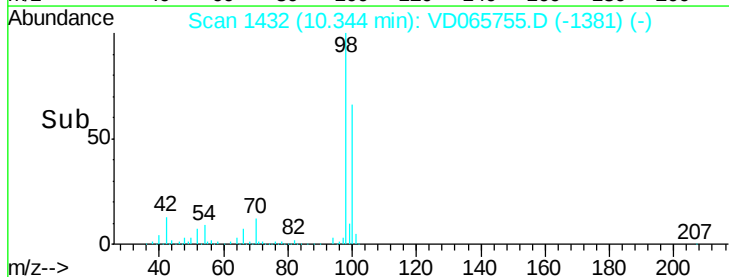
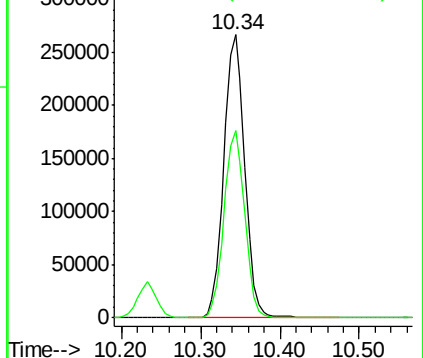


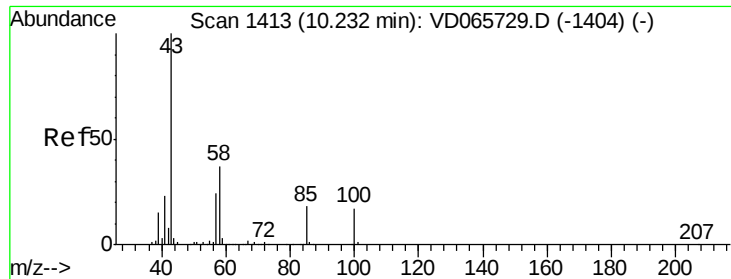
#50  
Toluene-d8  
Concen: 46.573 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 98 Resp: 484585  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VDC

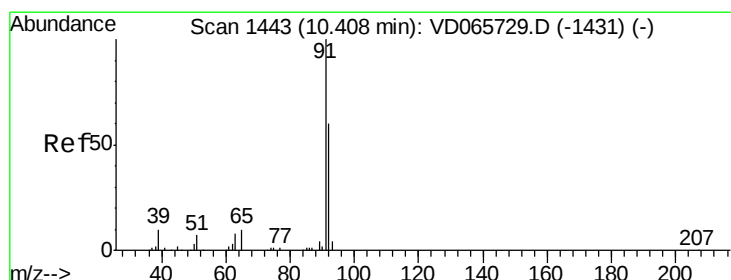
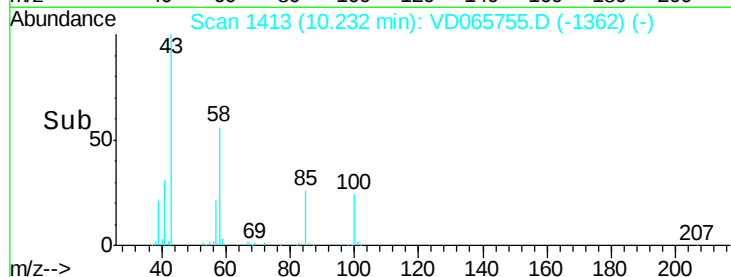
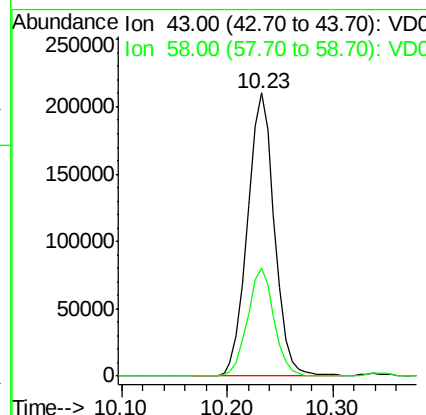
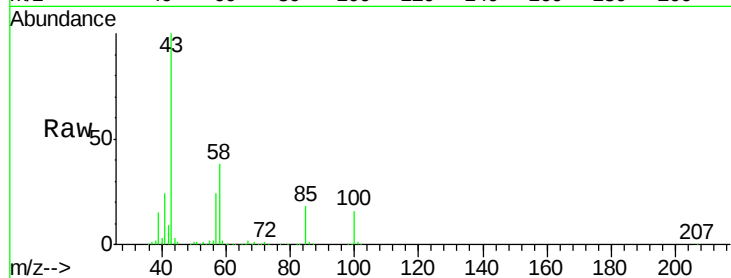




#51  
 4-Methyl-2-Pentanone  
 Concen: 218.835 ug/l  
 RT: 10.23 min Scan# 1413  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

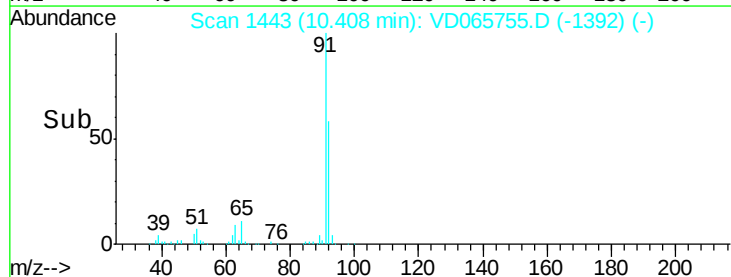
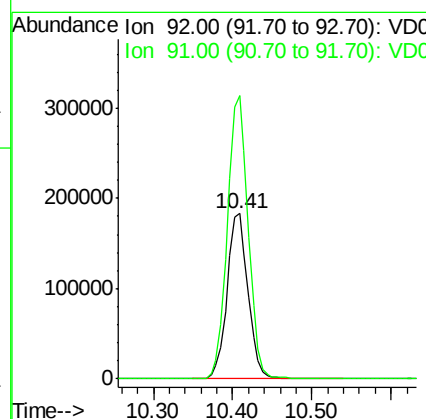
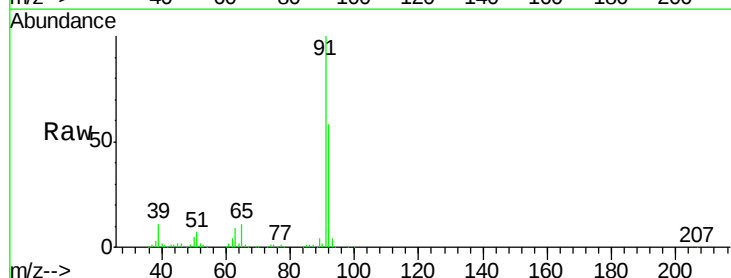
Instrument :  
 MSVOA\_D  
 ClientSampleID :

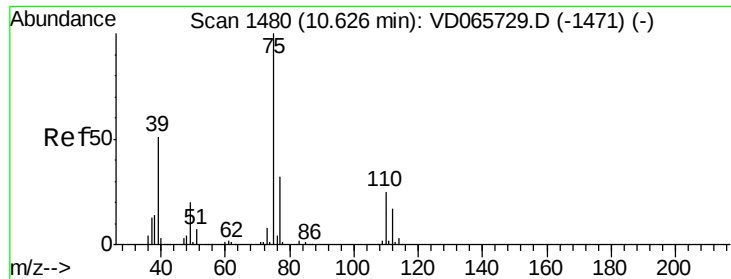
Tot Ion: 43 Resp: 372538  
 Ion Ratio Lower Upper  
 43 100  
 58 37.6 30.2 45.2



#52  
 Toluene  
 Concen: 43.983 ug/l  
 RT: 10.41 min Scan# 1443  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Tgt Ion: 92 Resp: 331946  
 Ion Ratio Lower Upper  
 92 100  
 91 170.8 136.6 205.0

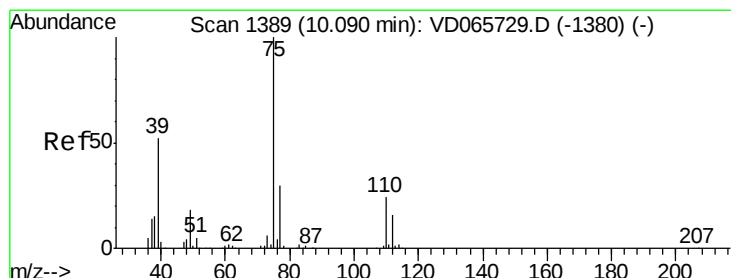
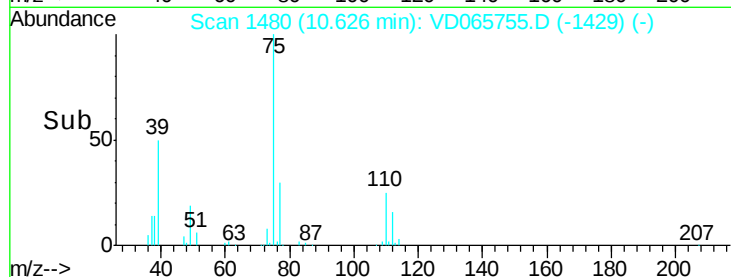
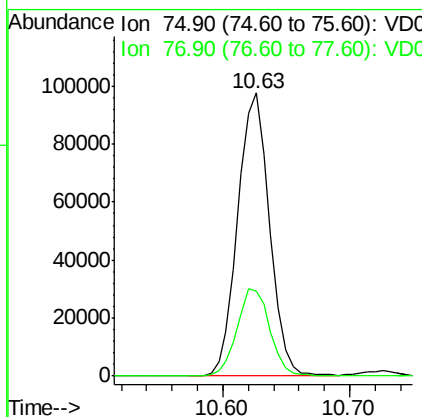
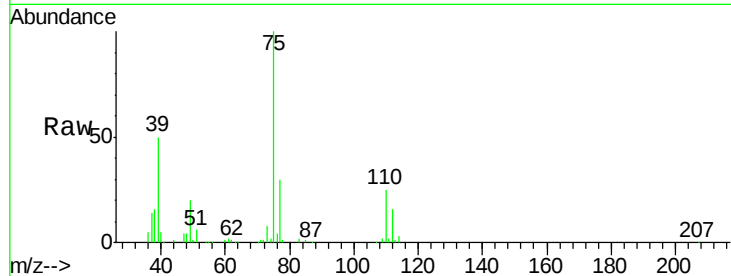




#53  
t-1,3-Dichloropropene  
Concen: 43.481 ug/l  
RT: 10.63 min Scan# 1480  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

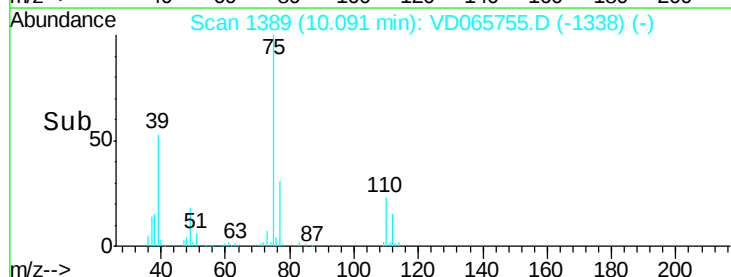
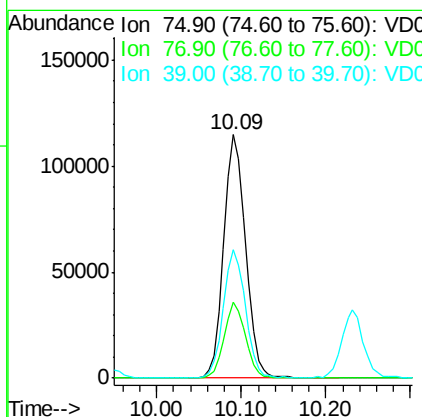
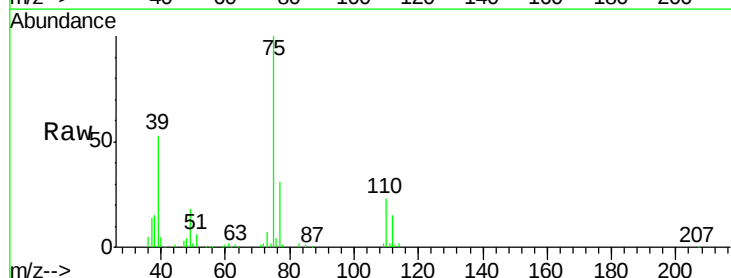
Instrument :  
MSVOA\_D  
ClientSampled :

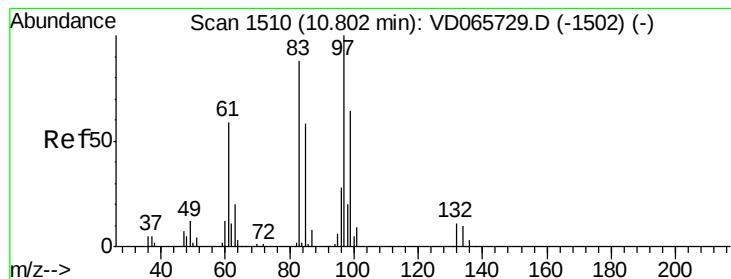
Tot Ion: 75 Resp: 170291  
Ion Ratio Lower Upper  
75 100  
77 29.9 25.8 38.6



#54  
cis-1,3-Dichloropropene  
Concen: 44.134 ug/l  
RT: 10.09 min Scan# 1389  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 75 Resp: 205598  
Ion Ratio Lower Upper  
75 100  
77 31.4 23.8 35.6  
39 52.6 41.9 62.9





#55

1,1,2-Trichloroethane

Concen: 44.681 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 97 Resp: 93224

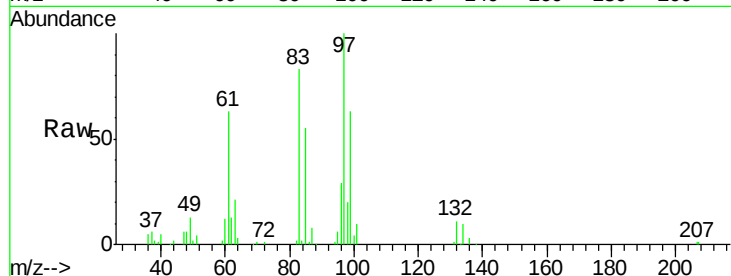
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 82.6  | 70.7  | 106.1 |
| 85  | 55.2  | 46.8  | 70.2  |
| 99  | 63.2  | 50.9  | 76.3  |

97 100

83 82.6 70.7 106.1

85 55.2 46.8 70.2

99 63.2 50.9 76.3



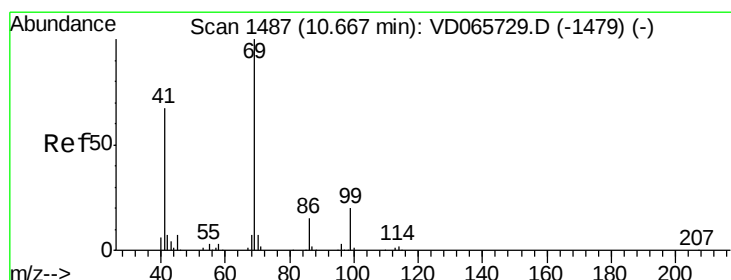
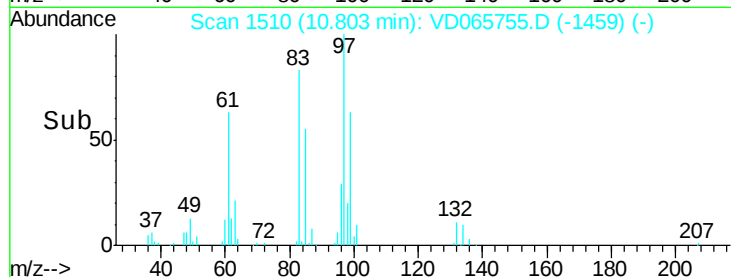
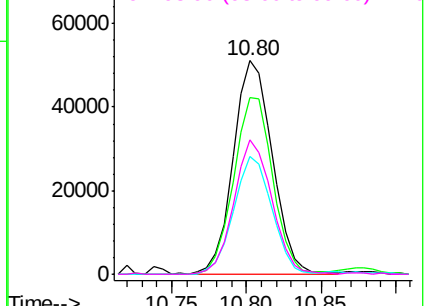
Abundance

Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 41.974 ug/l

RT: 10.66 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

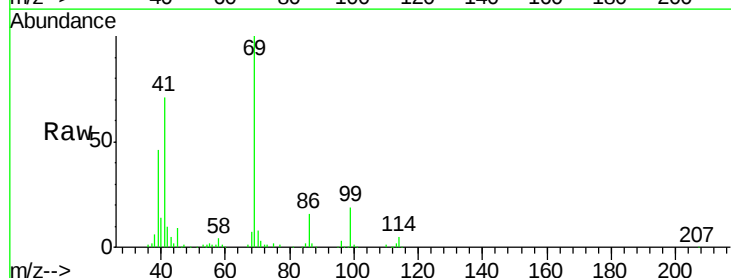
Tgt Ion: 69 Resp: 114144

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 70.9  | 55.7  | 83.5  |
| 39  | 45.6  | 28.6  | 43.0  |

69 100

41 70.9 55.7 83.5

39 45.6 28.6 43.0

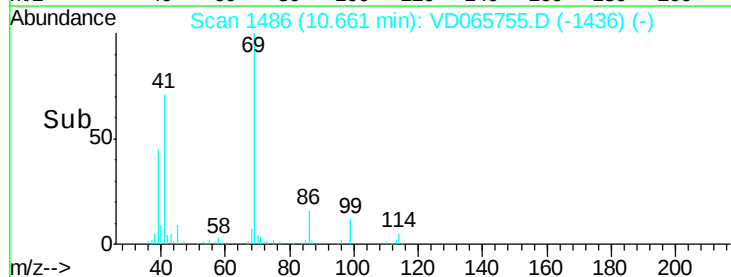
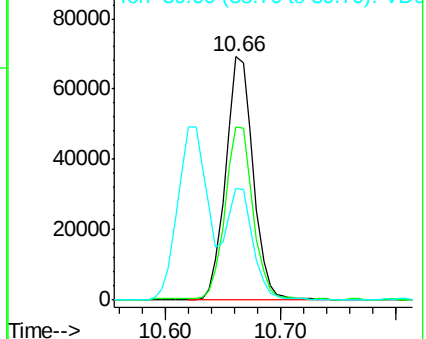


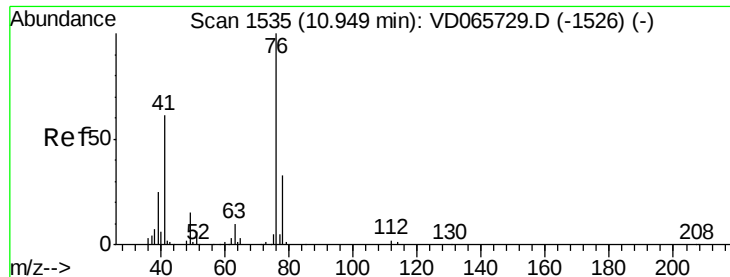
Abundance

Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#57

1,3-Dichloropropane

Concen: 43.981 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

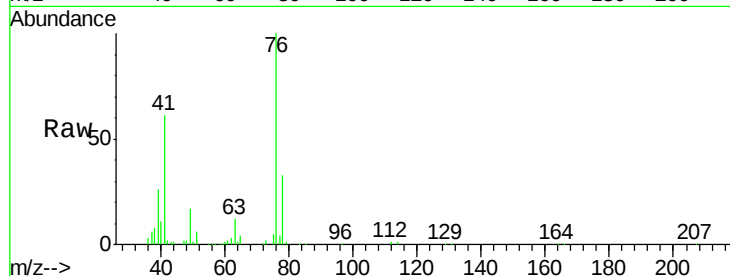
ClientSampleId :

Tot Ion: 76 Resp: 159607

Ion Ratio Lower Upper

76 100

78 32.6 26.2 39.4



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

10.95

80000

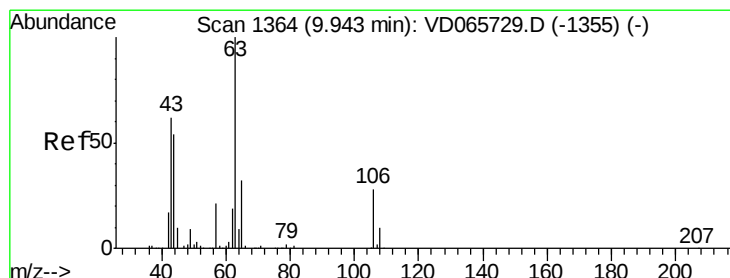
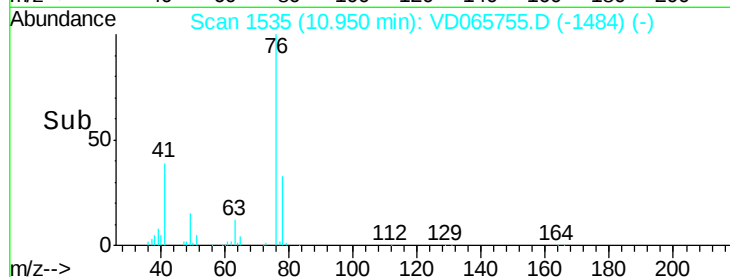
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 254.652 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD065755.D

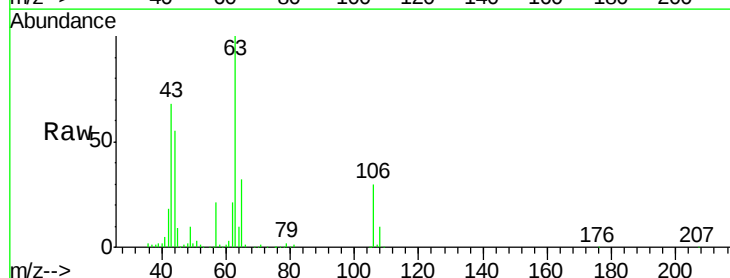
Acq: 26 May 2020 11:50

Tgt Ion: 63 Resp: 322173

Ion Ratio Lower Upper

63 100

106 29.7 23.5 35.3



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

9.94

200000

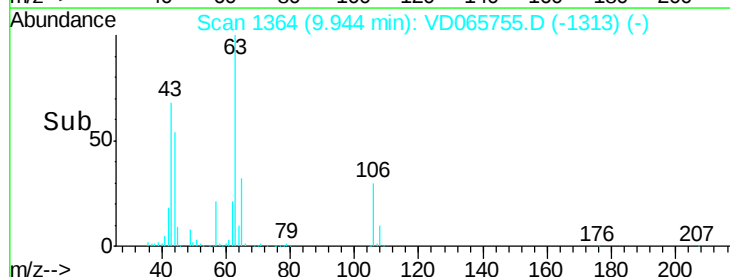
150000

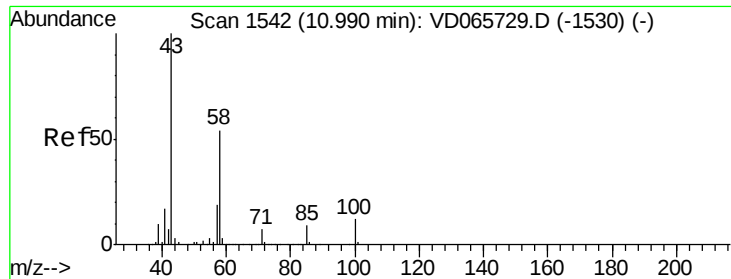
100000

50000

0

Time-->

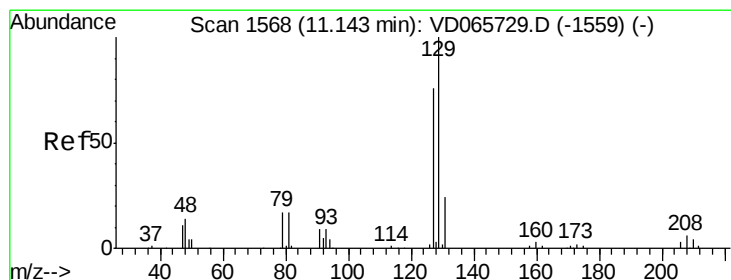
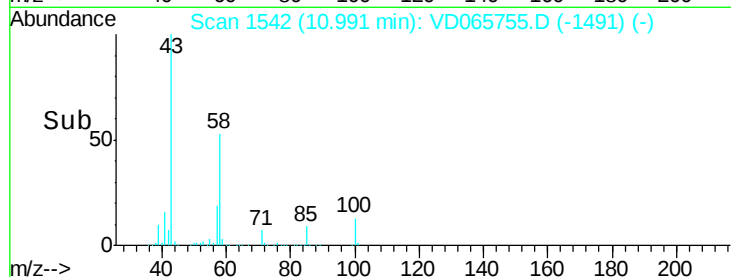
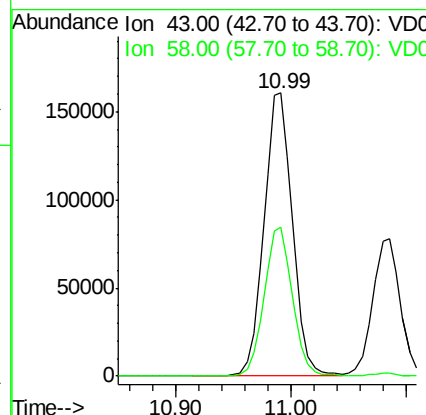
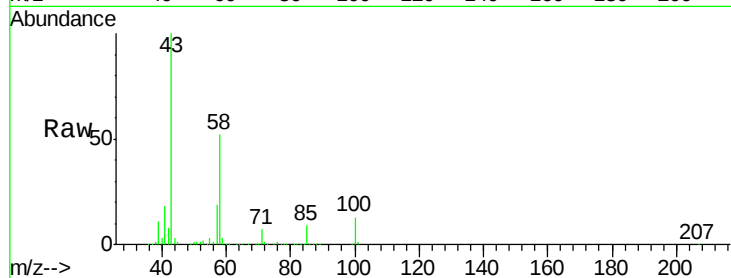




#59  
2-Hexanone  
Concen: 238.325 ug/l  
RT: 10.99 min Scan# 1542  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

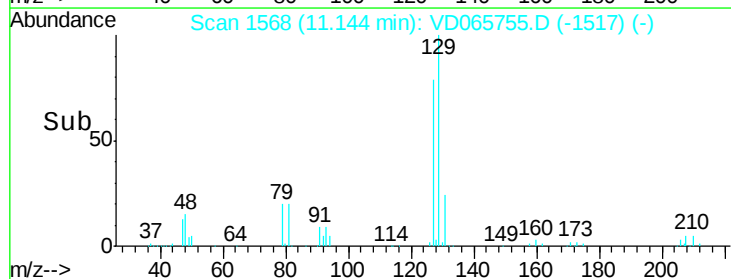
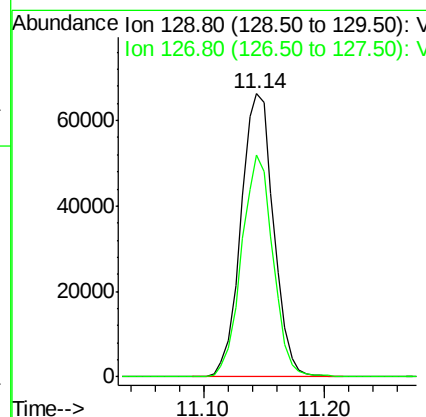
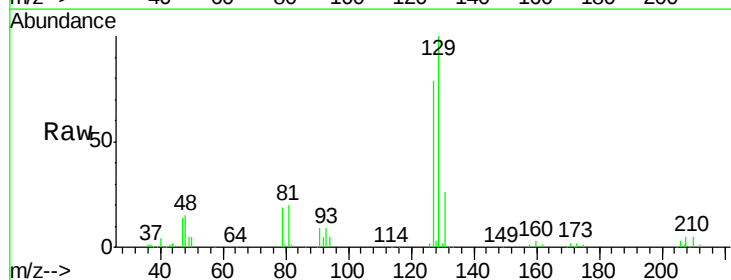
Instrument :  
MSVOA\_D  
ClientSampleId :

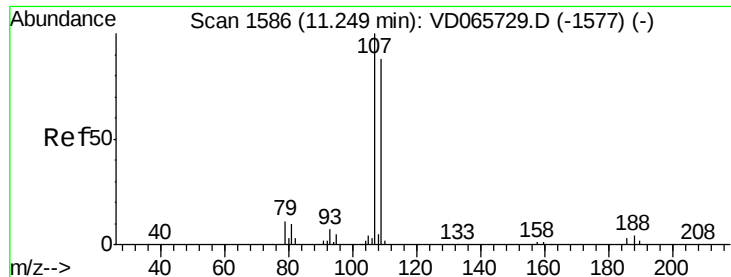
Tot Ion: 43 Resp: 276282  
Ion Ratio Lower Upper  
43 100  
58 52.2 26.7 80.1



#60  
Dibromochloromethane  
Concen: 44.794 ug/l  
RT: 11.14 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 129 Resp: 125155  
Ion Ratio Lower Upper  
129 100  
127 75.4 38.3 114.9

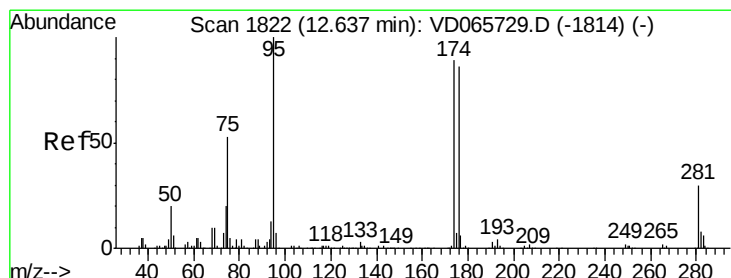
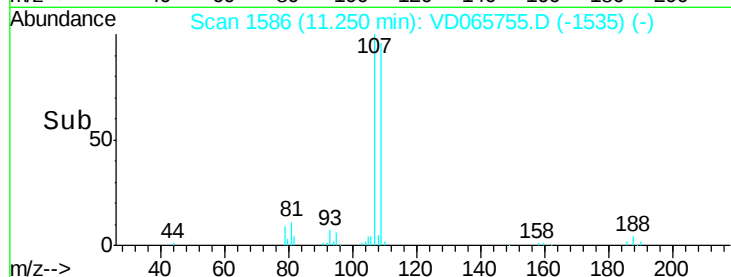
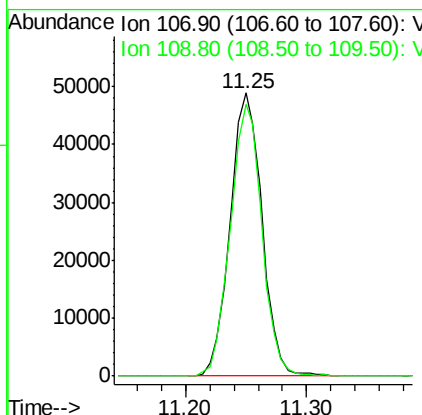
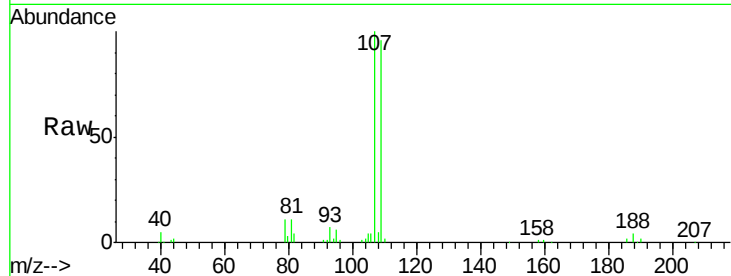




#61  
 1,2-Dibromoethane  
 Concen: 43.093 ug/l  
 RT: 11.25 min Scan# 1586  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

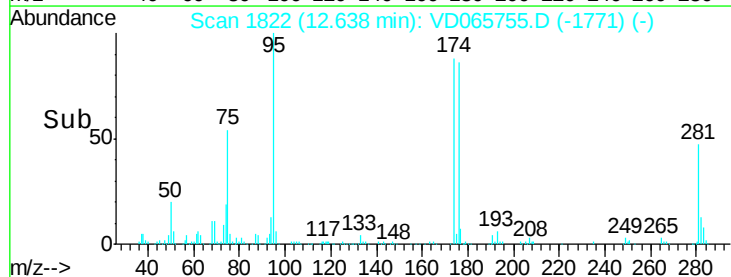
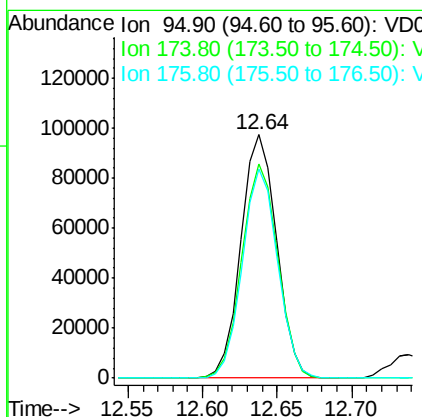
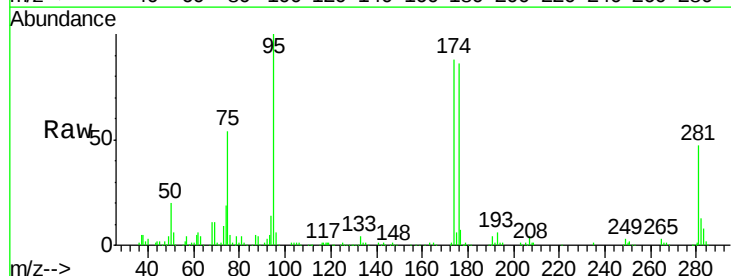
Instrument :  
 MSVOA\_D  
 ClientSampleId :

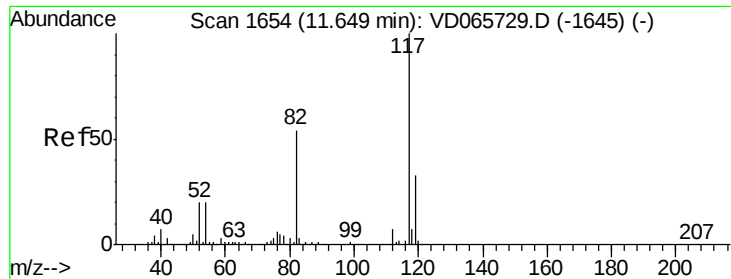
Tot Ion:107 Resp: 89800  
 Ion Ratio Lower Upper  
 107 100  
 109 95.0 74.4 111.6



#62  
 4-Bromofluorobenzene  
 Concen: 45.752 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Tgt Ion: 95 Resp: 161218  
 Ion Ratio Lower Upper  
 95 100  
 174 88.6 0.0 179.4  
 176 85.1 0.0 174.0

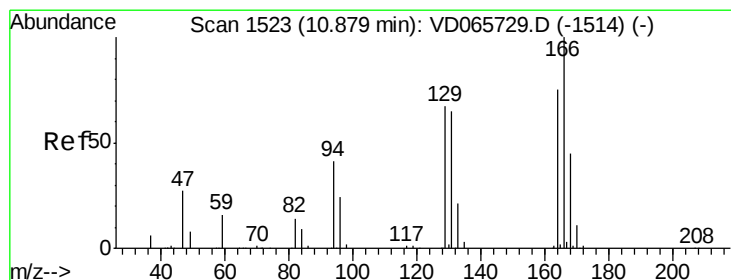
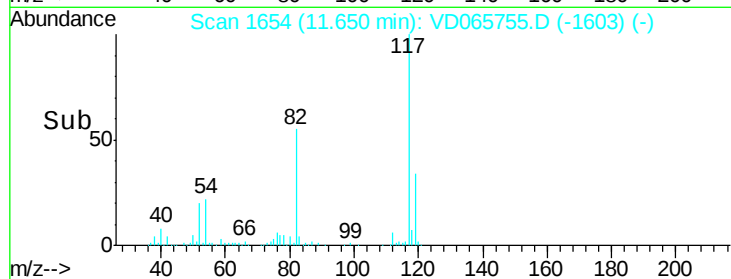
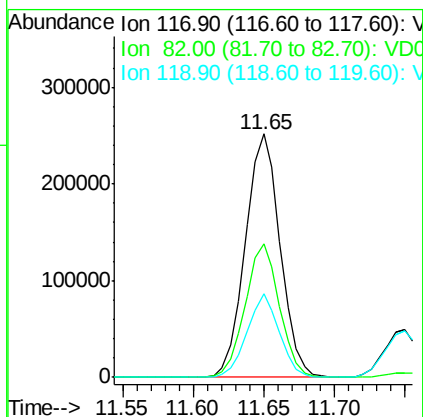
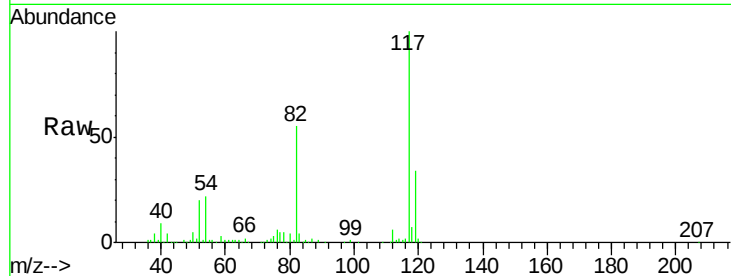




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

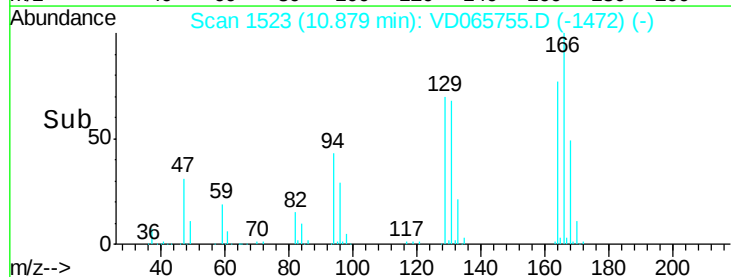
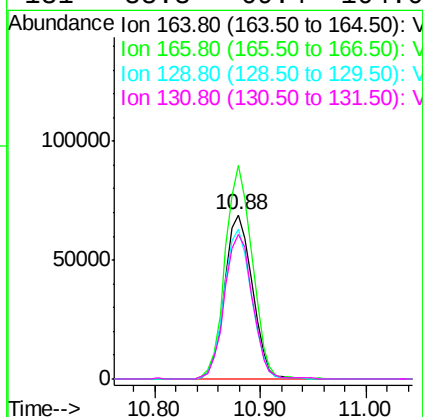
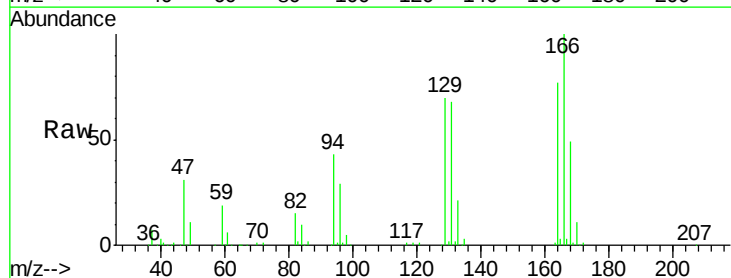
Instrument :  
MSVOA\_D  
ClientSampleId :

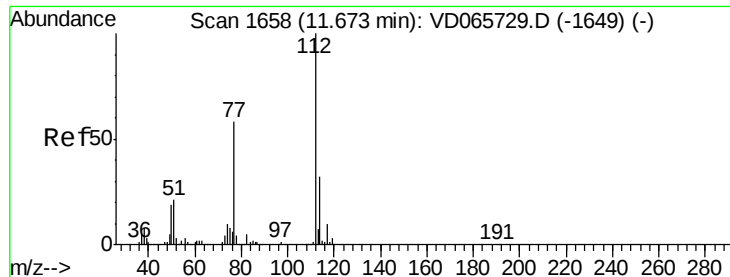
Tot Ion:117 Resp: 435010  
Ion Ratio Lower Upper  
117 100  
82 54.7 43.0 64.6  
119 34.1 26.6 40.0



#64  
Tetrachloroethene  
Concen: 41.703 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion:164 Resp: 125444  
Ion Ratio Lower Upper  
164 100  
166 129.9 106.6 159.8  
129 91.4 71.4 107.2  
131 88.3 69.4 104.0

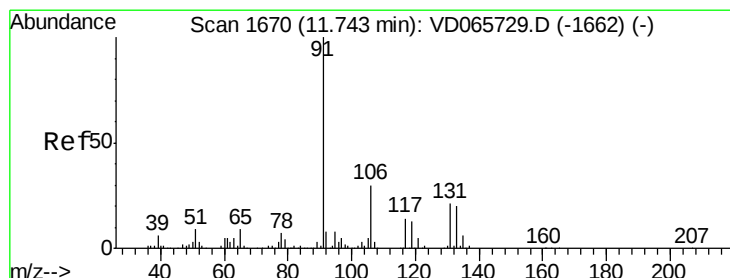
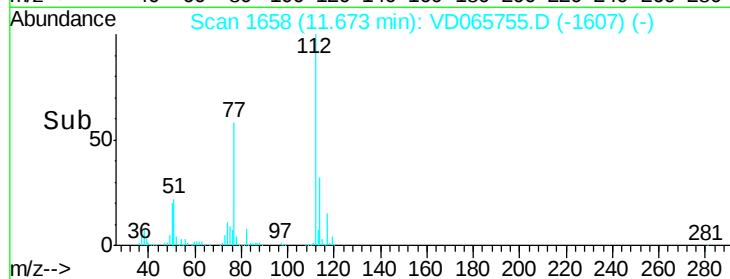
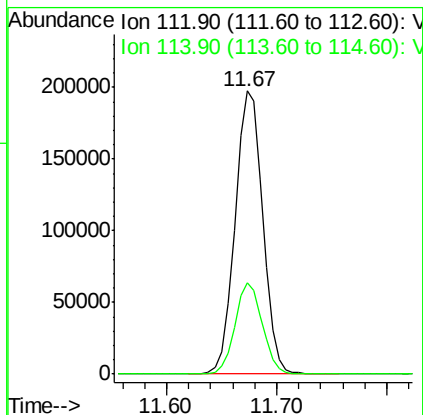
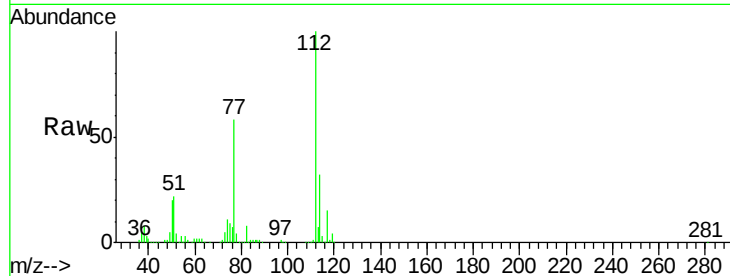




#65  
Chlorobenzene  
Concen: 42.473 ug/l  
RT: 11.67 min Scan# 1658  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

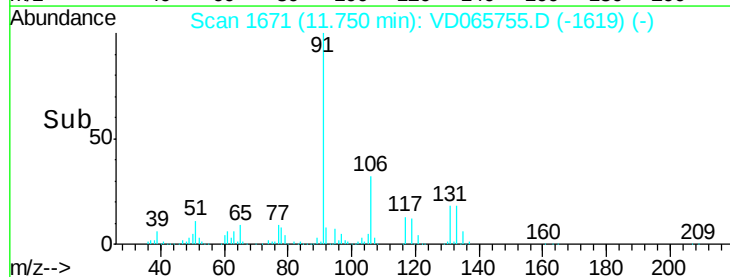
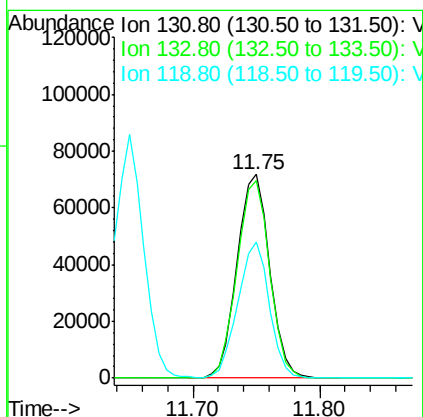
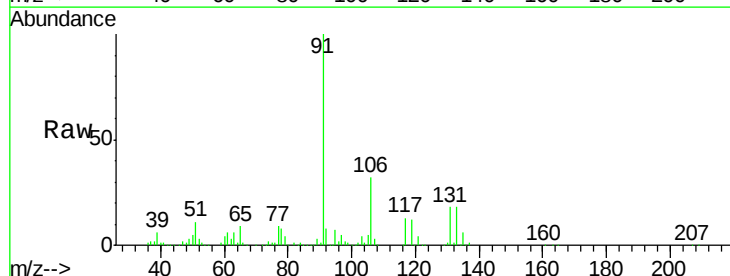
Instrument :  
MSVOA\_D  
ClientSampleId :

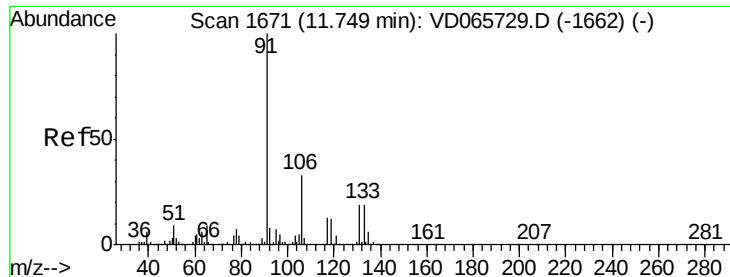
Tot Ion:112 Resp: 348167  
Ion Ratio Lower Upper  
112 100  
114 32.4 25.9 38.9



#66  
1,1,1,2-Tetrachloroethane  
Concen: 41.882 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.01 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion:131 Resp: 128537  
Ion Ratio Lower Upper  
131 100  
133 96.5 47.6 142.8  
119 64.5 31.6 95.0





#67

Ethyl Benzene

Concen: 43.517 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

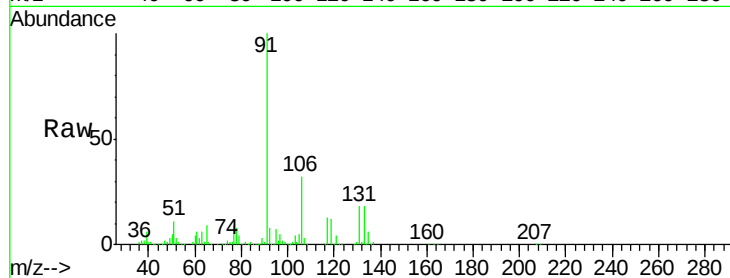
ClientSampled :

Tot Ion: 91 Resp: 636055

Ion Ratio Lower Upper

91 100

106 32.2 26.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

600000

500000

400000

300000

200000

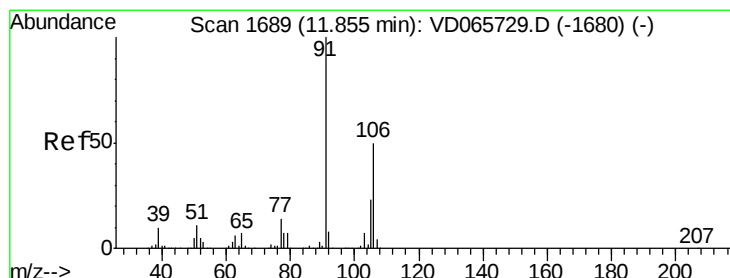
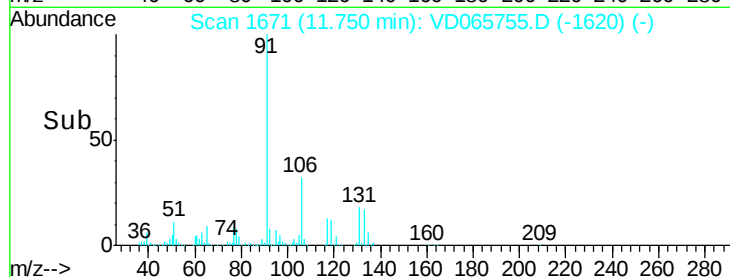
100000

0

11.75

11.80

Time-->



#68

m/p-Xylenes

Concen: 87.645 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD065755.D

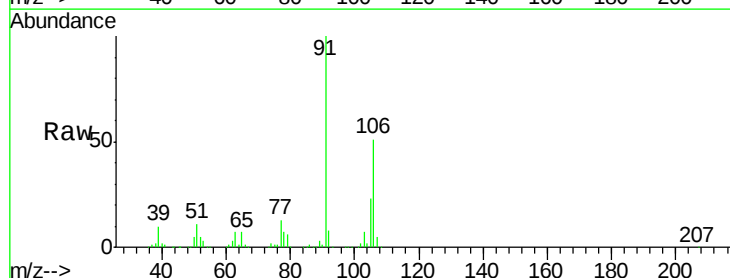
Acq: 26 May 2020 11:50

Tgt Ion: 106 Resp: 489281

Ion Ratio Lower Upper

106 100

91 197.9 158.7 238.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

600000

500000

400000

300000

200000

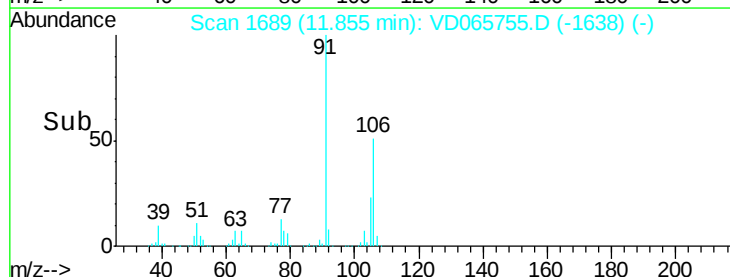
100000

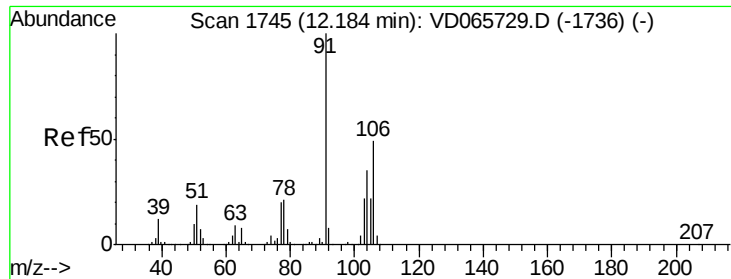
0

11.86

11.90

Time-->

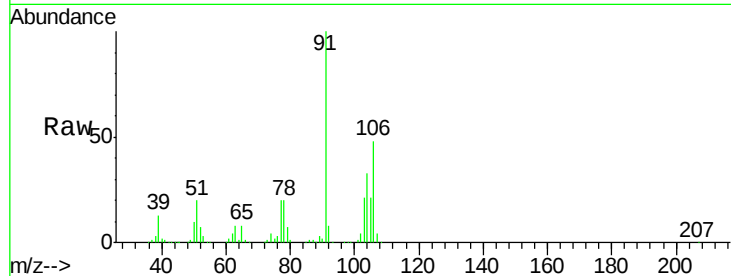




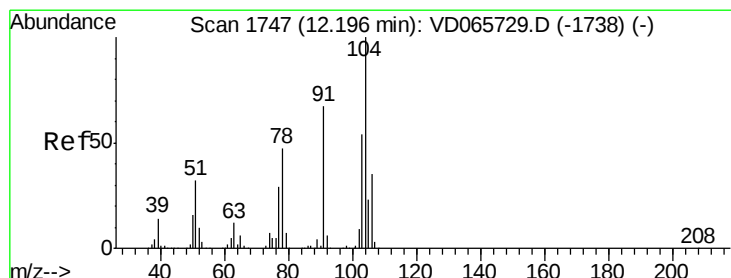
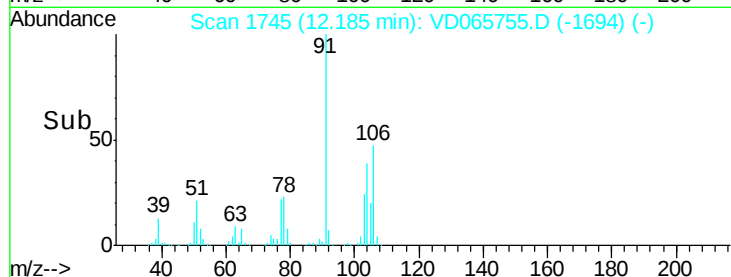
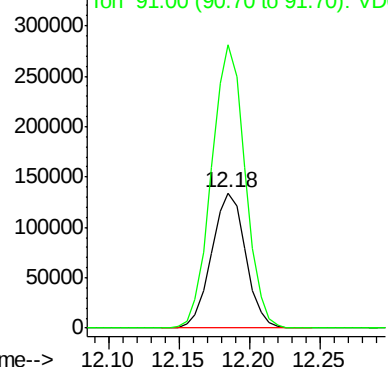
#69  
o-Xylene  
Concen: 43.534 ug/l  
RT: 12.18 min Scan# 1745  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:106 Resp: 226240  
Ion Ratio Lower Upper  
106 100  
91 207.1 101.8 305.4

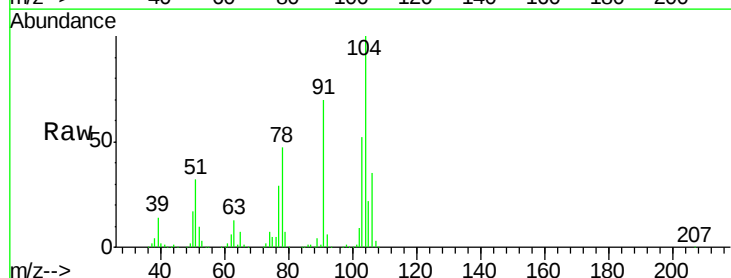


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VDC

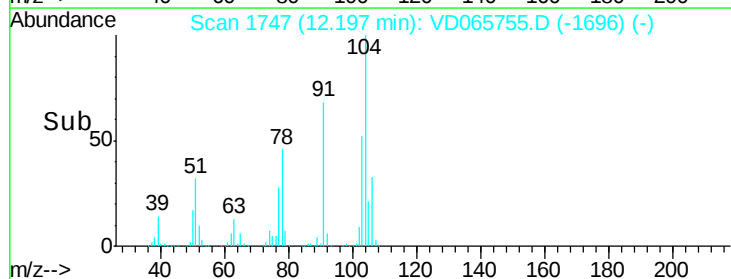
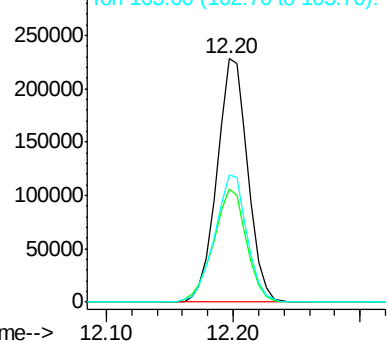


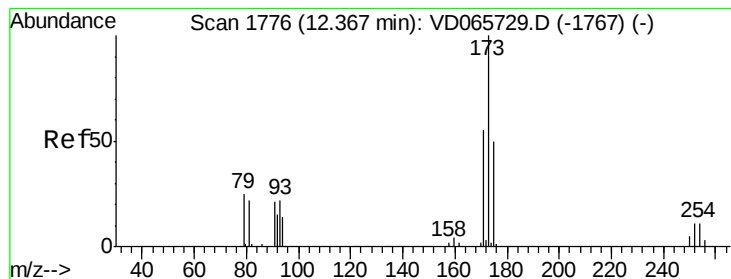
#70  
Styrene  
Concen: 43.456 ug/l  
RT: 12.20 min Scan# 1747  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion:104 Resp: 385403  
Ion Ratio Lower Upper  
104 100  
78 49.7 39.0 58.6  
103 54.7 44.0 66.0



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VDC  
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 42.330 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

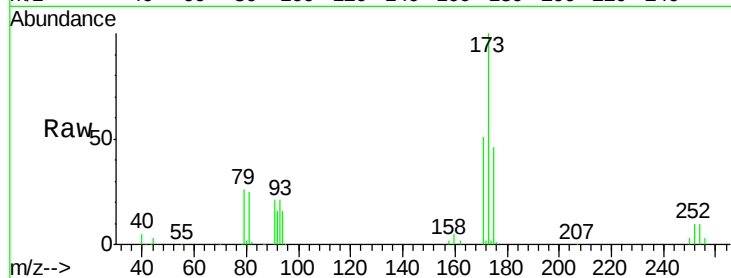
Tot Ion:173 Resp: 71701

Ion Ratio Lower Upper

173 100

175 49.1 24.6 73.6

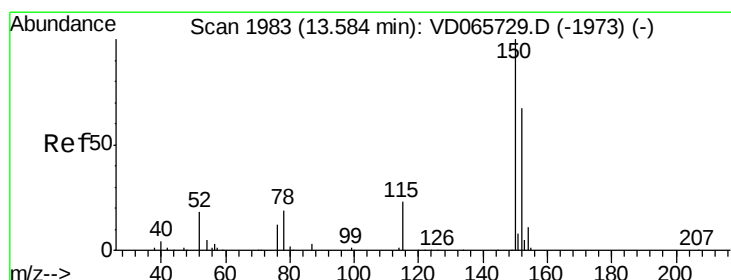
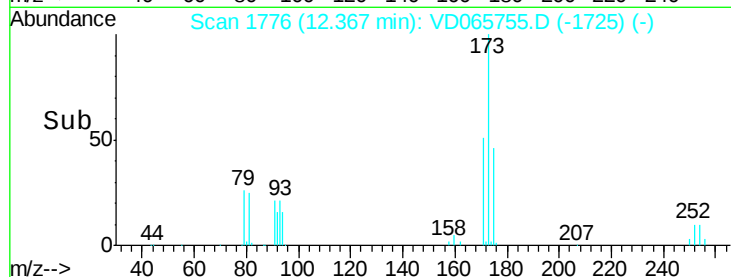
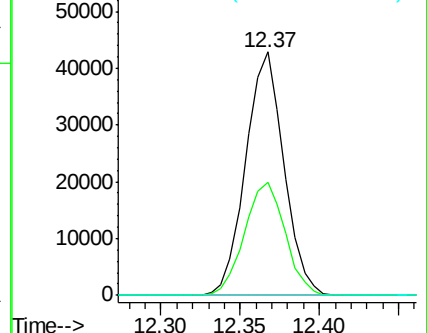
254 0.0 0.0 0.0



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: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

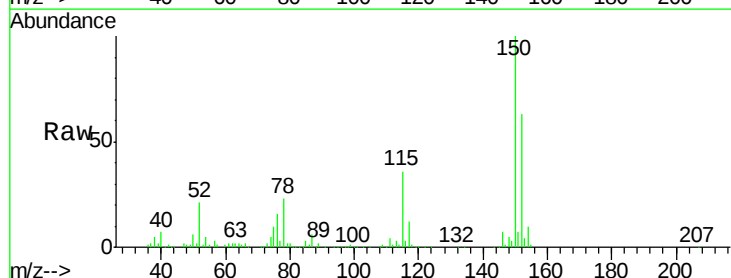
Tgt Ion:152 Resp: 213687

Ion Ratio Lower Upper

152 100

115 55.6 28.1 84.3

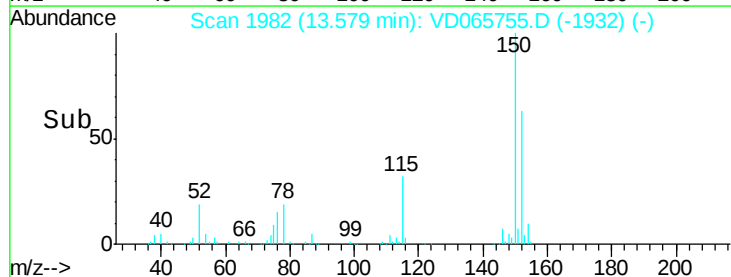
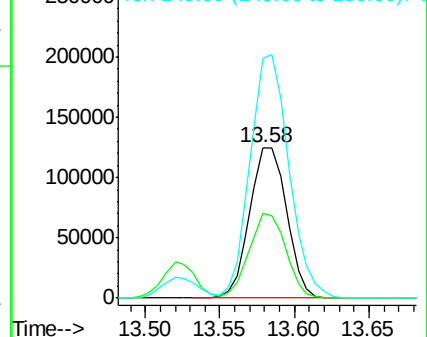
150 170.1 0.0 343.2

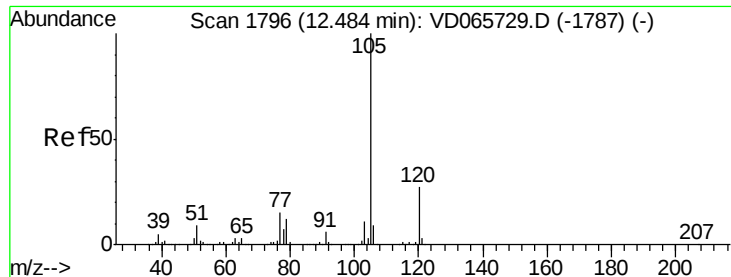


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 43.721 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

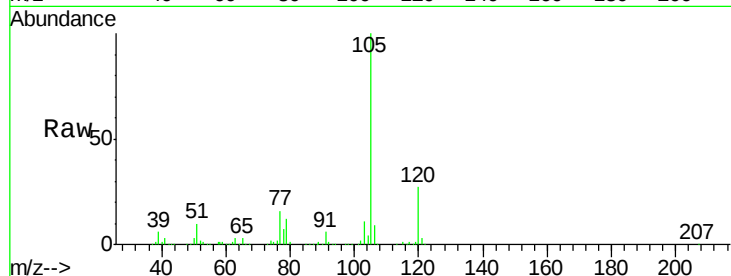
ClientSampleId :

Tot Ion:105 Resp: 627210

Ion Ratio Lower Upper

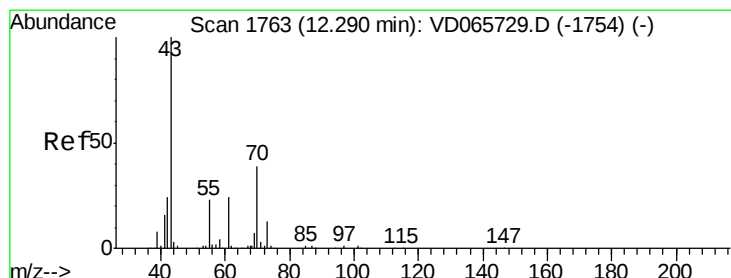
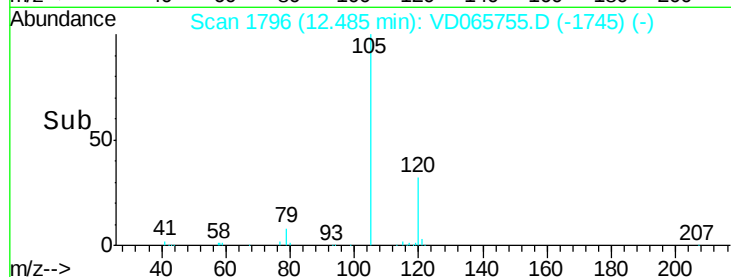
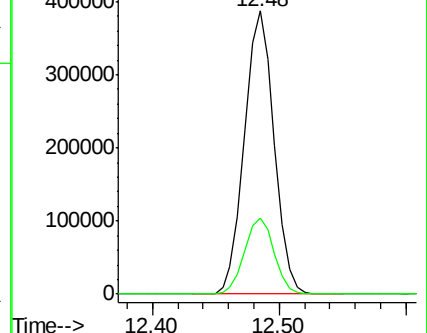
105 100

120 27.0 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 41.418 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Tgt Ion: 43 Resp: 137954

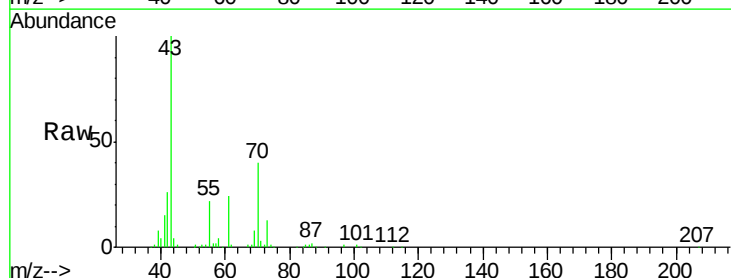
Ion Ratio Lower Upper

43 100

70 40.6 31.8 47.6

55 22.6 17.9 26.9

61 23.6 19.0 28.6

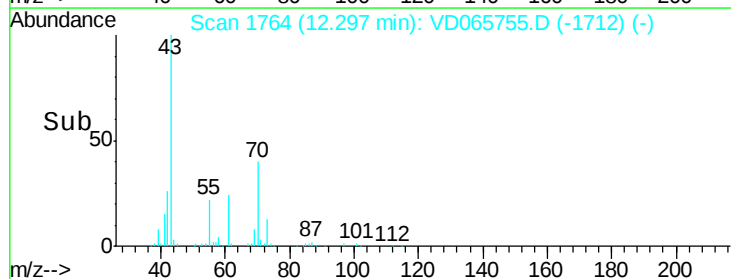
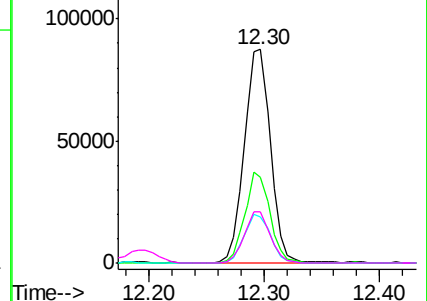


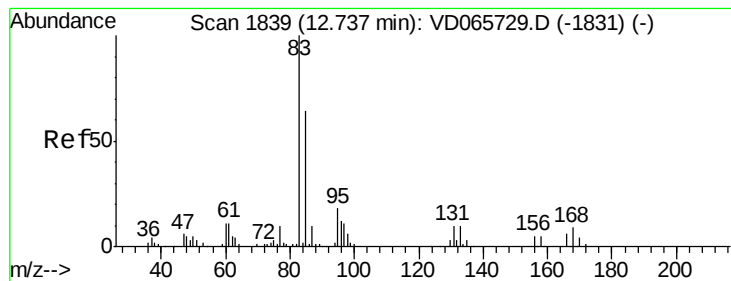
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 43.362 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampled :

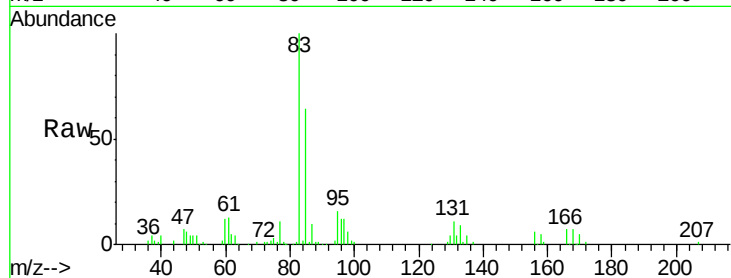
Tot Ion: 83 Resp: 98455

Ion Ratio Lower Upper

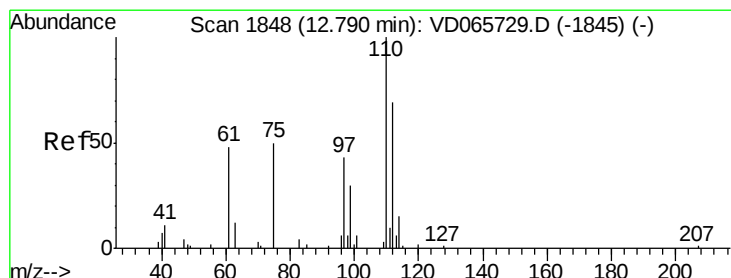
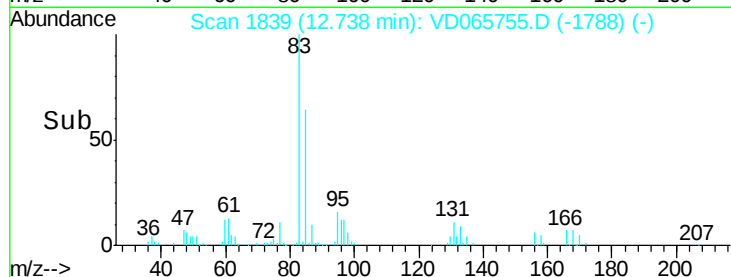
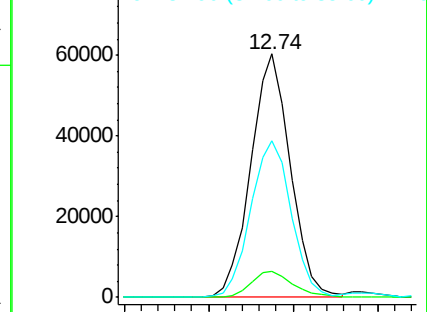
83 100

131 11.4 5.9 17.6

85 65.6 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 130.80 (130.50 to 131.50): VDC  
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 82.703 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD065755.D

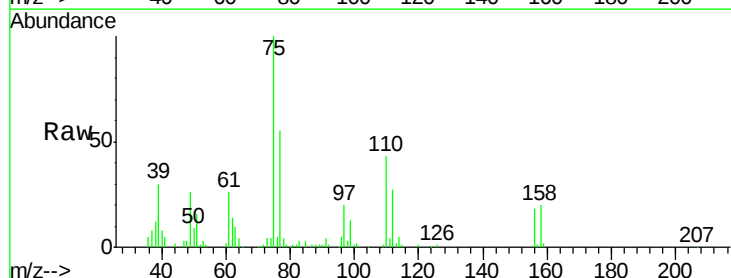
Acq: 26 May 2020 11:50

Tgt Ion: 75 Resp: 131892

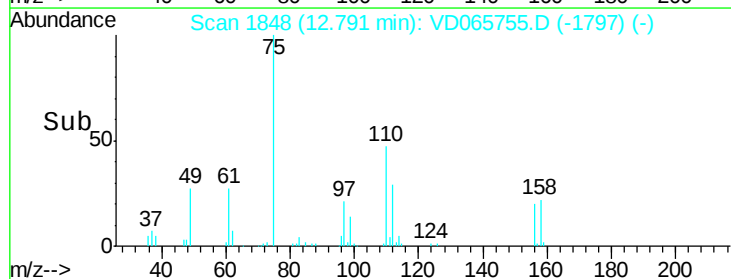
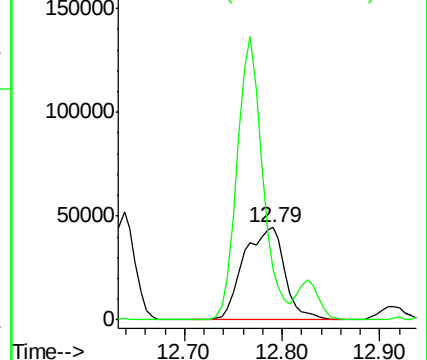
Ion Ratio Lower Upper

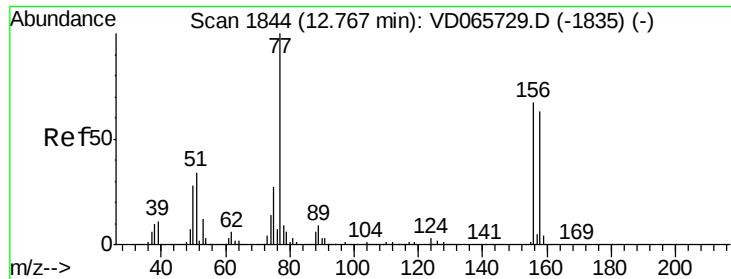
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC  
Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 41.761 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

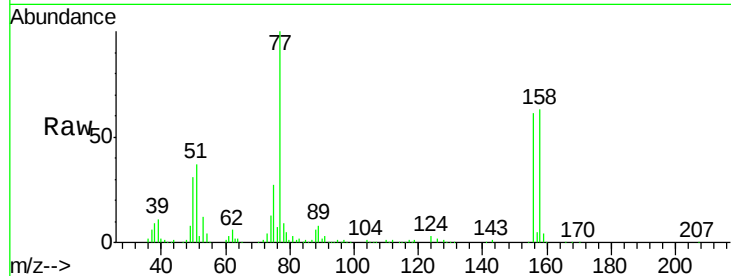
Tot Ion:156 Resp: 144401

Ion Ratio Lower Upper

156 100

77 173.4 84.9 254.6

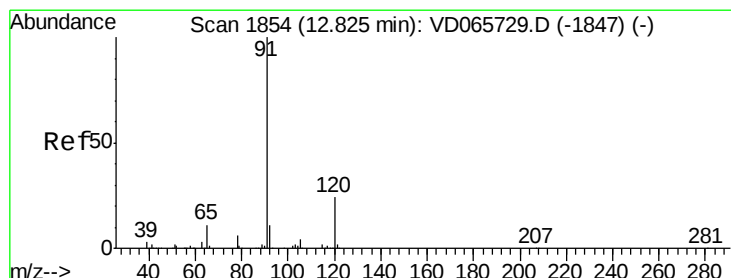
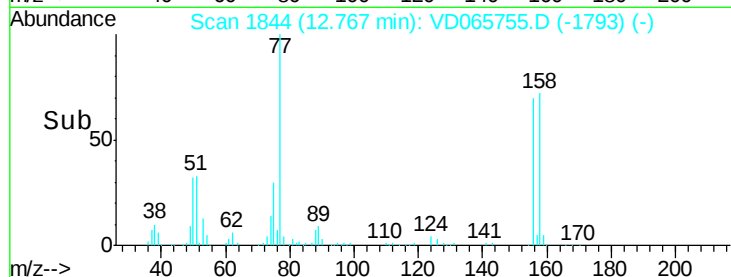
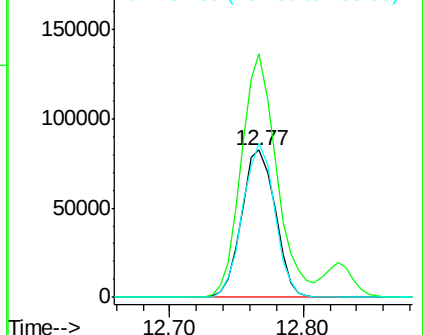
158 99.3 48.8 146.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 44.237 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065755.D

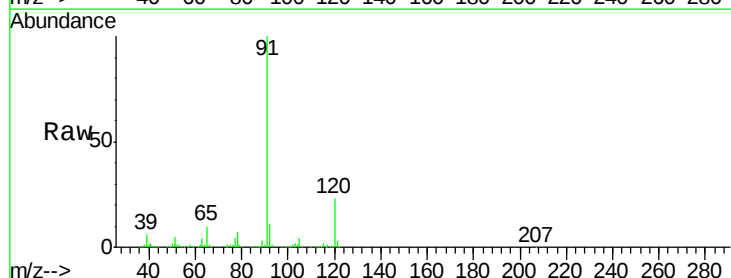
Acq: 26 May 2020 11:50

Tgt Ion: 91 Resp: 741311

Ion Ratio Lower Upper

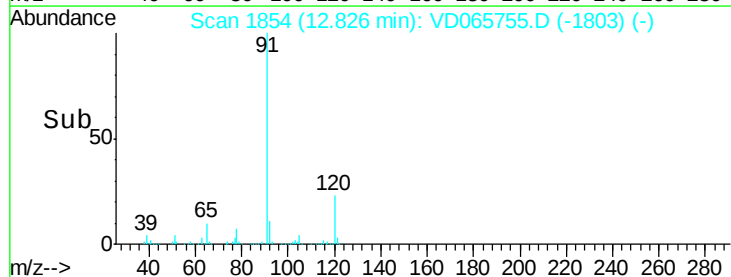
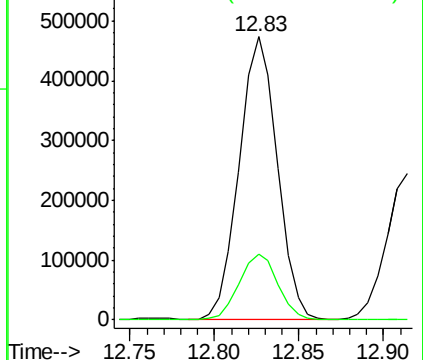
91 100

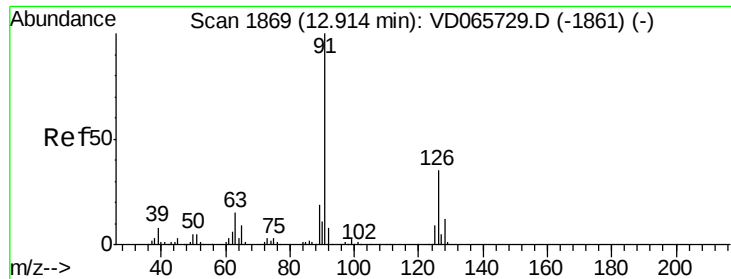
120 23.7 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

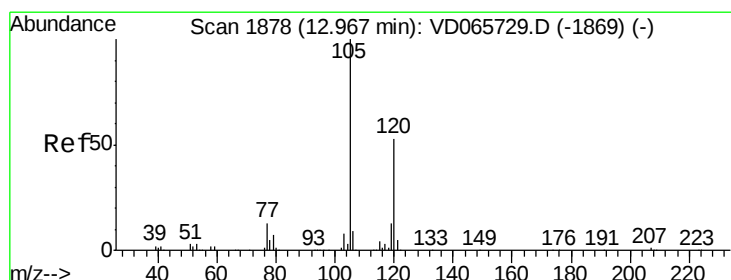
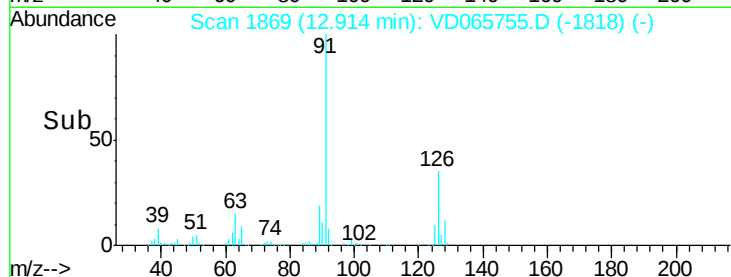
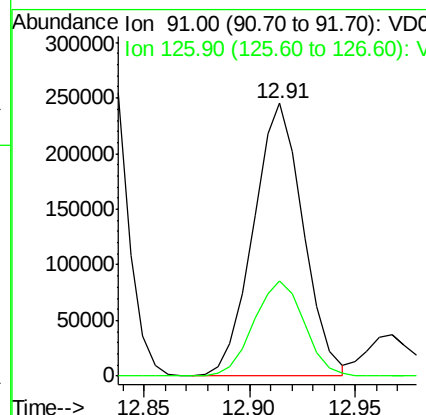
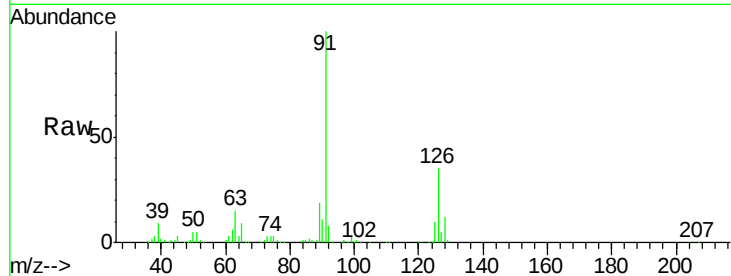




#79  
 2-Chlorotoluene  
 Concen: 43.243 ug/l  
 RT: 12.91 min Scan# 1869  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

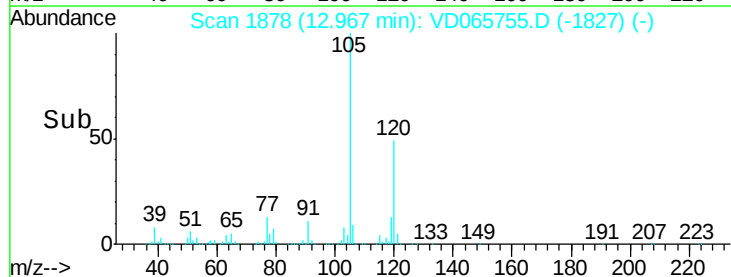
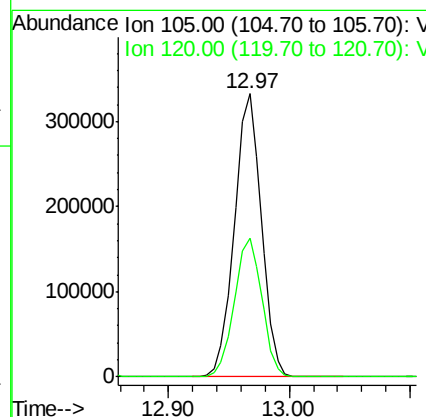
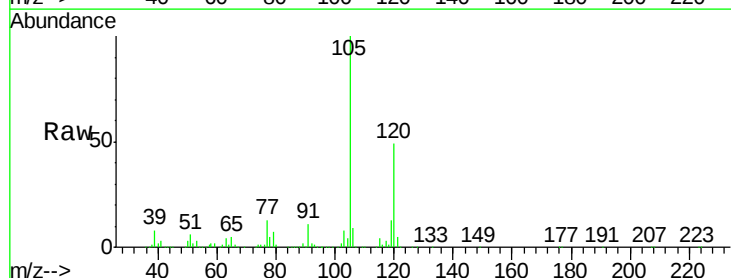
Instrument :  
 MSVOA\_D  
 ClientSampled :

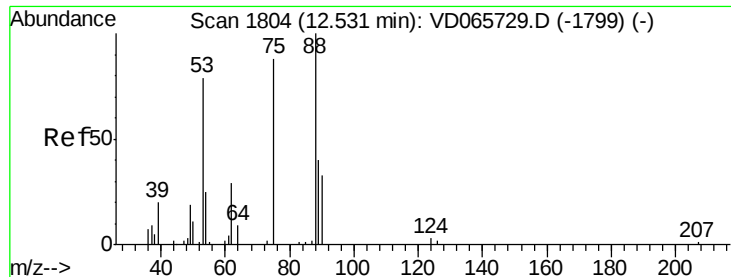
Tot Ion: 91 Resp: 400955  
 Ion Ratio Lower Upper  
 91 100  
 126 35.6 18.1 54.1



#80  
 1,3,5-Trimethylbenzene  
 Concen: 43.789 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Tgt Ion: 105 Resp: 517599  
 Ion Ratio Lower Upper  
 105 100  
 120 49.9 25.7 77.0





#81

trans-1,4-Dichloro-2-butene

Concen: 42.425 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

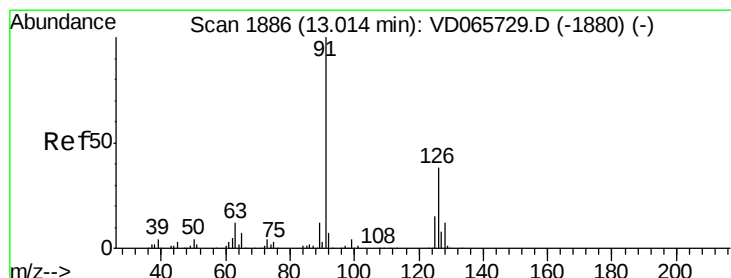
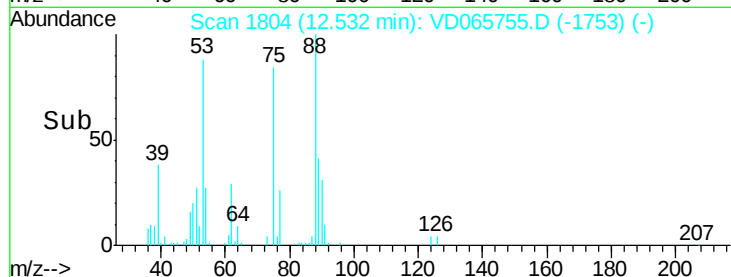
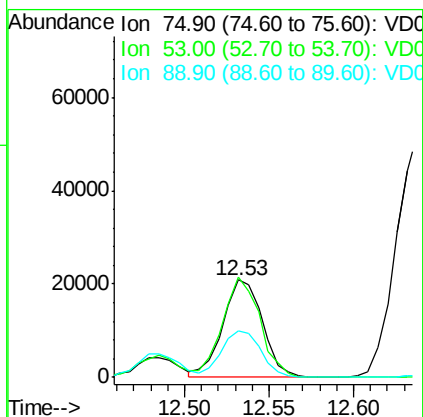
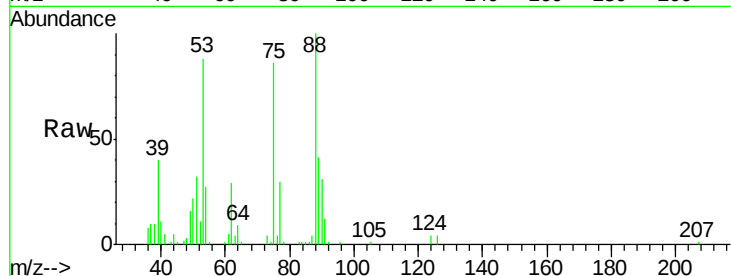
Tot Ion: 75 Resp: 34487

Ion Ratio Lower Upper

75 100

53 95.7 72.6 109.0

89 46.6 37.0 55.4



#82

4-Chlorotoluene

Concen: 43.791 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD065755.D

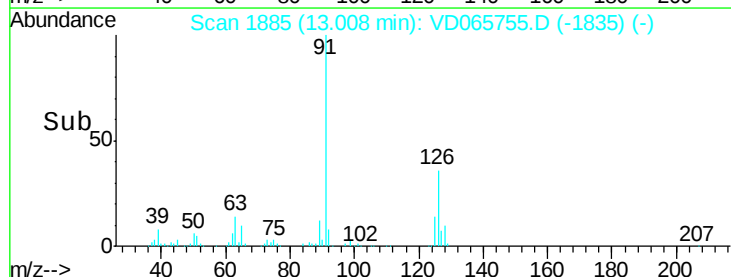
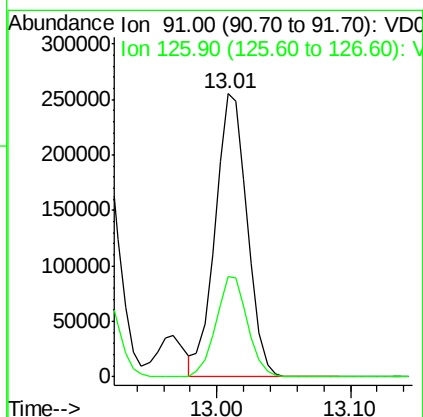
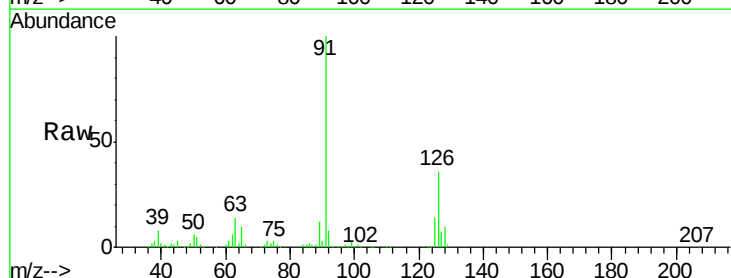
Acq: 26 May 2020 11:50

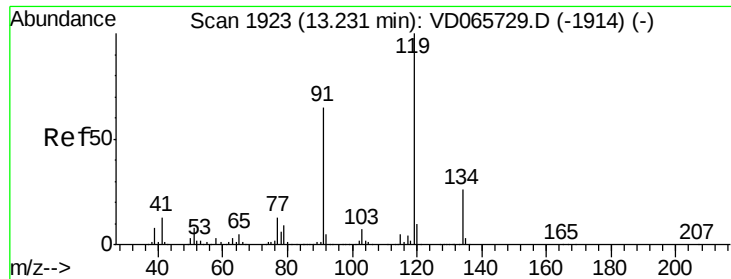
Tgt Ion: 91 Resp: 428078

Ion Ratio Lower Upper

91 100

126 35.0 17.8 53.3

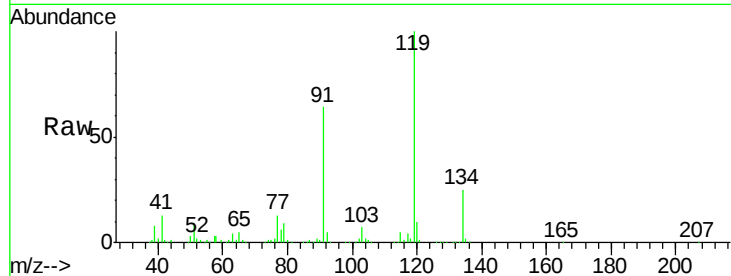




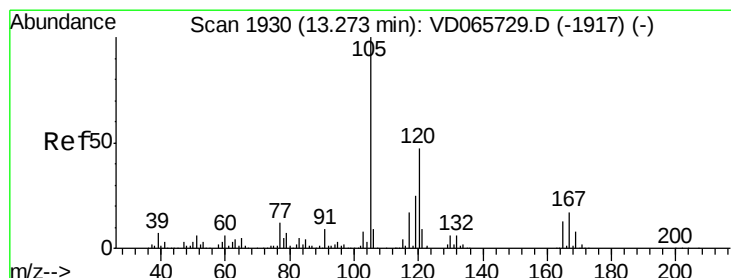
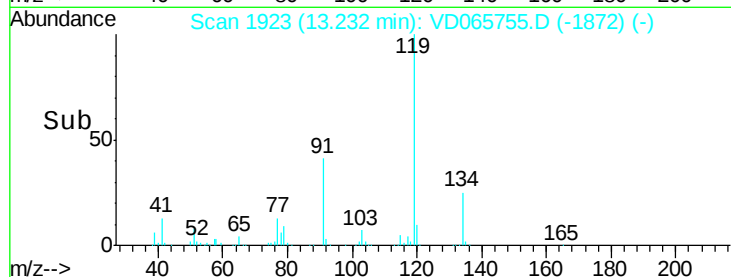
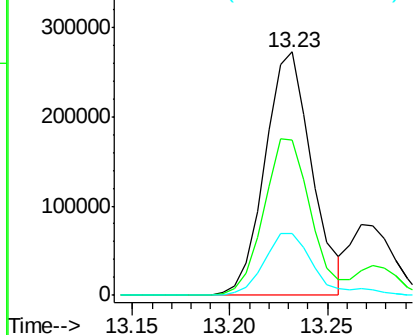
#83  
tert-Butylbenzene  
Concen: 43.241 ug/l  
RT: 13.23 min Scan# 1923  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:119 Resp: 453229  
Ion Ratio Lower Upper  
119 100  
91 63.9 31.6 95.0  
134 27.5 12.7 38.1

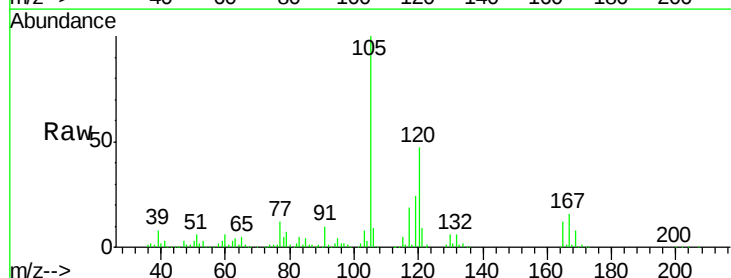


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

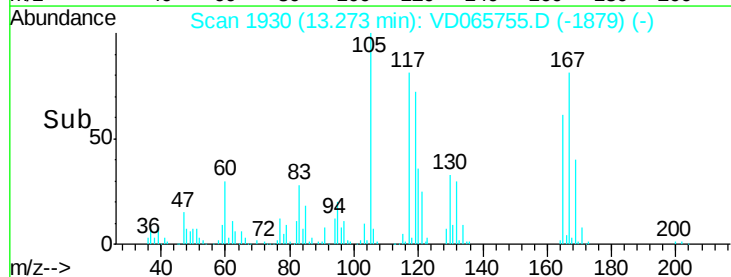
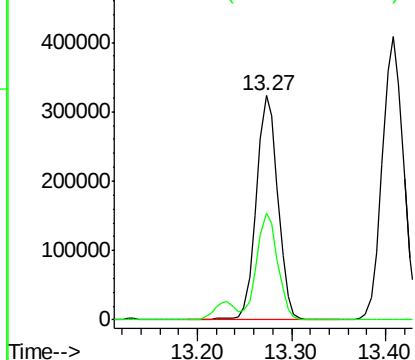


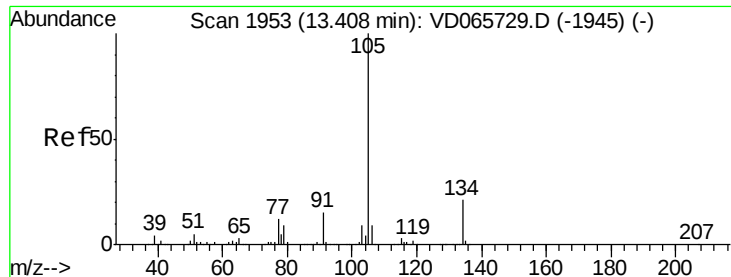
#84  
1,2,4-Trimethylbenzene  
Concen: 44.064 ug/l  
RT: 13.27 min Scan# 1930  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion:105 Resp: 513653  
Ion Ratio Lower Upper  
105 100  
120 46.6 23.6 70.8



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





#85

sec-Butylbenzene

Concen: 44.508 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

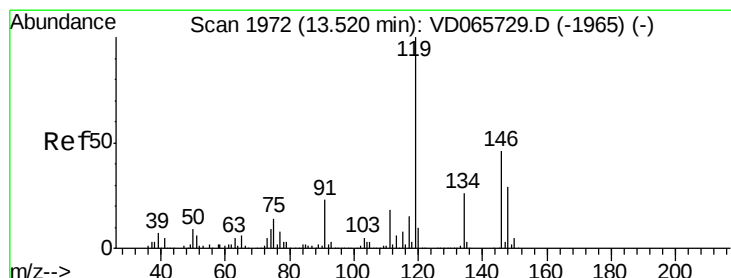
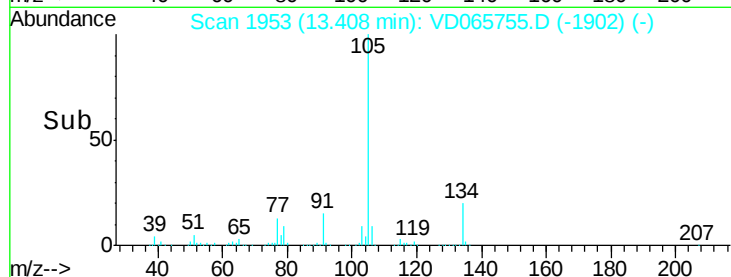
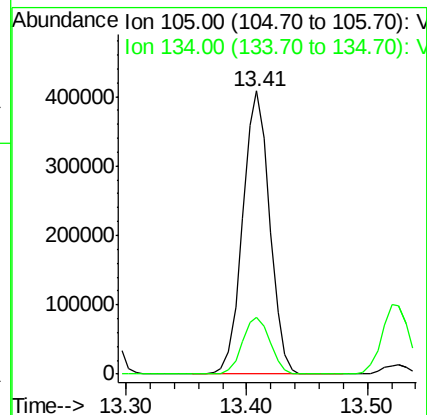
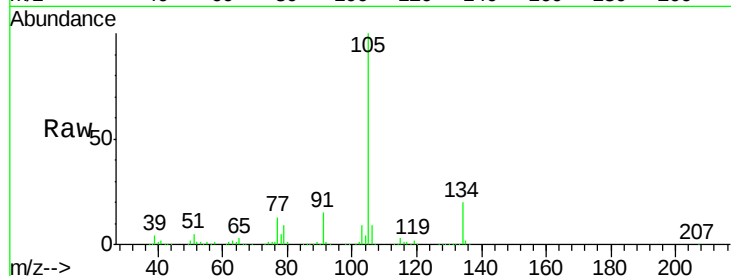
ClientSampleId :

Tot Ion:105 Resp: 634788

Ion Ratio Lower Upper

105 100

134 20.8 10.7 31.9



#86

p-Isopropyltoluene

Concen: 44.596 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

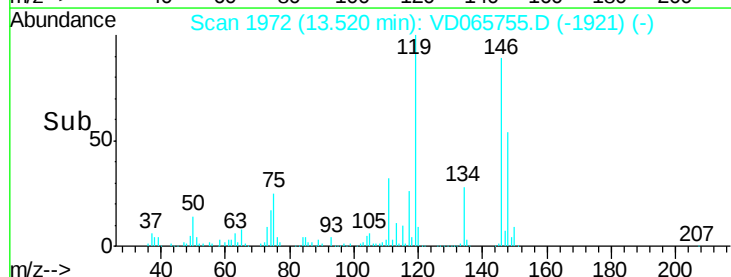
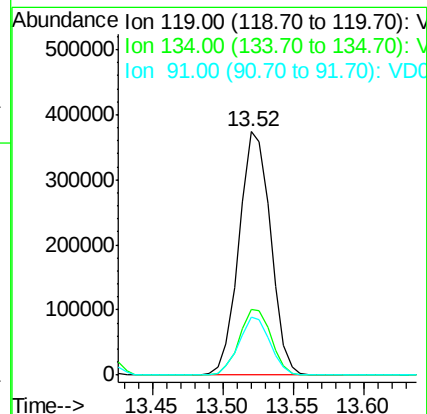
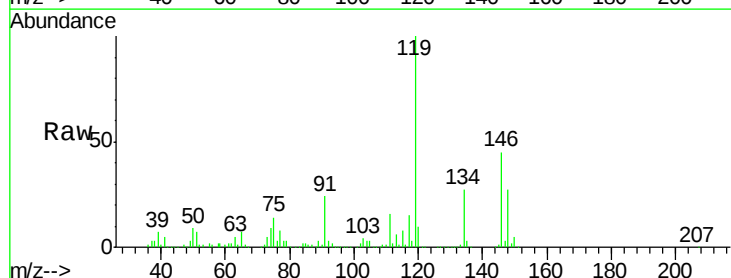
Tgt Ion:119 Resp: 584622

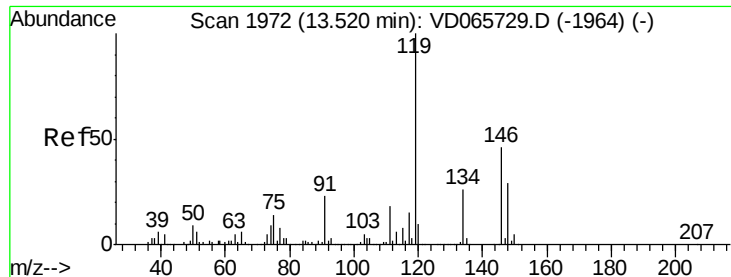
Ion Ratio Lower Upper

119 100

134 27.2 13.6 40.7

91 23.6 11.7 35.1

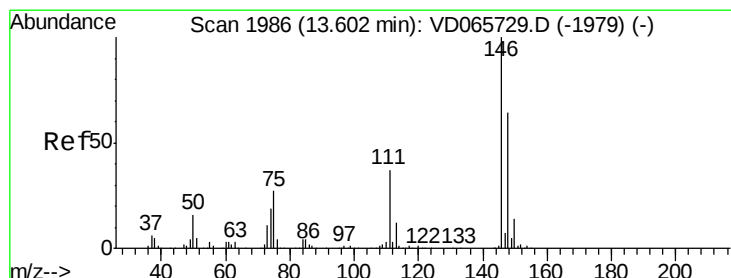
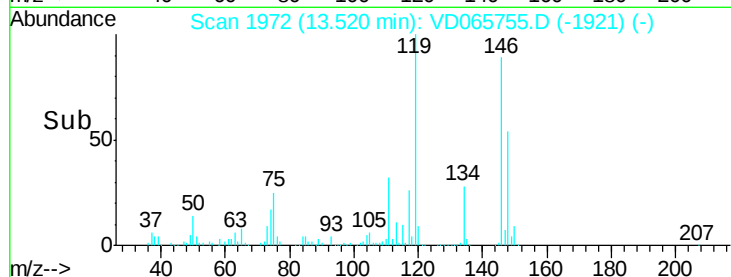
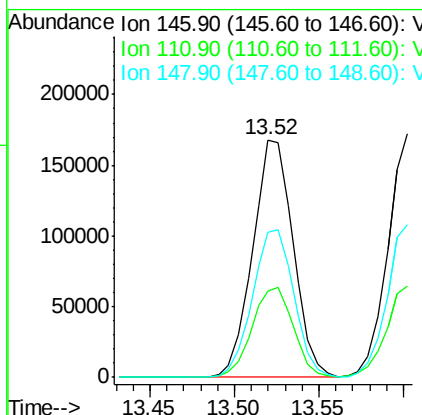
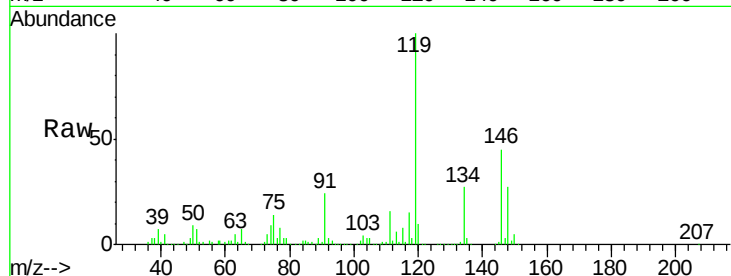




#87  
 1,3-Dichlorobenzene  
 Concen: 43.204 ug/l  
 RT: 13.52 min Scan# 1972  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

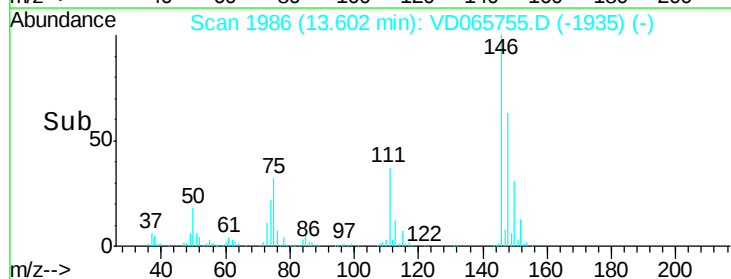
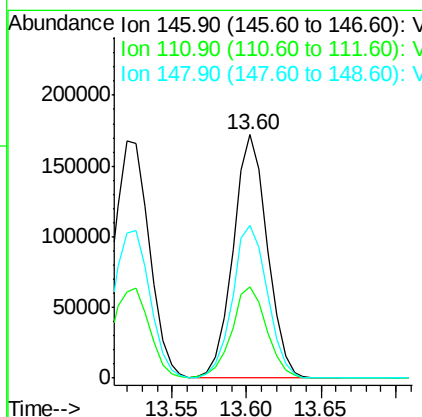
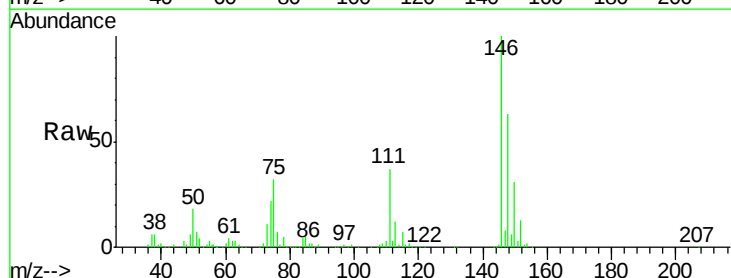
Instrument :  
 MSVOA\_D  
 ClientSampleId :

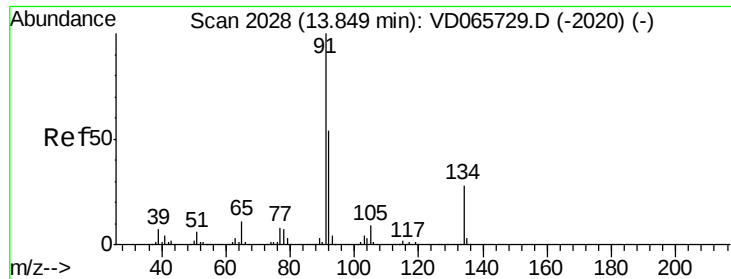
Tot Ion:146 Resp: 280195  
 Ion Ratio Lower Upper  
 146 100  
 111 38.4 18.9 56.9  
 148 63.3 31.9 95.5



#88  
 1,4-Dichlorobenzene  
 Concen: 42.462 ug/l  
 RT: 13.60 min Scan# 1986  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Tgt Ion:146 Resp: 274300  
 Ion Ratio Lower Upper  
 146 100  
 111 38.4 18.4 55.2  
 148 64.3 31.6 94.7

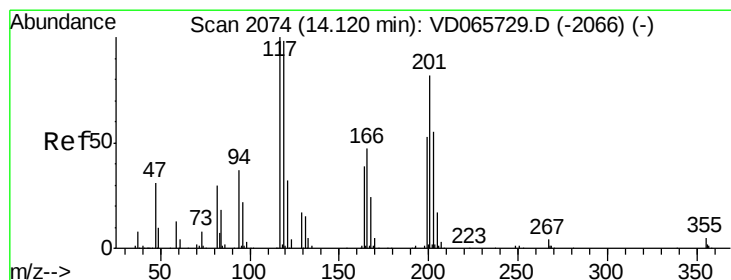
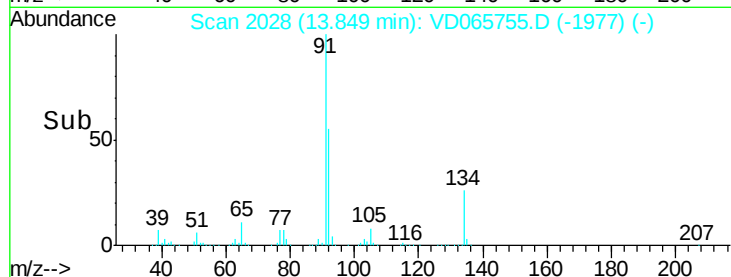
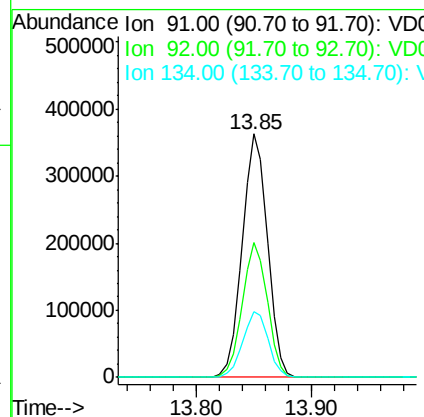
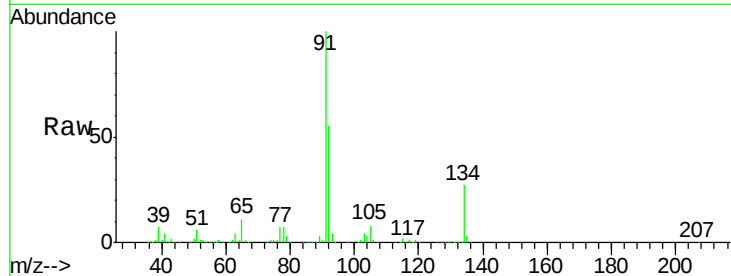




#89  
n-Butylbenzene  
Concen: 44.785 ug/l  
RT: 13.85 min Scan# 2028  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

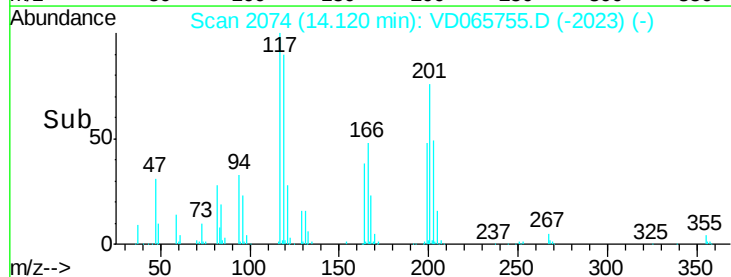
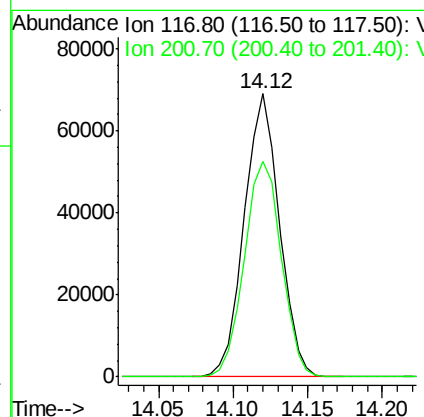
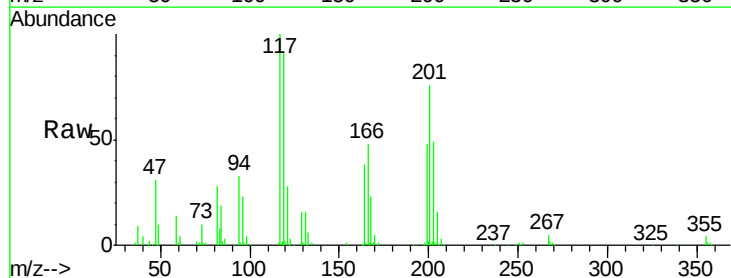
Instrument :  
MSVOA\_D  
ClientSampleID :

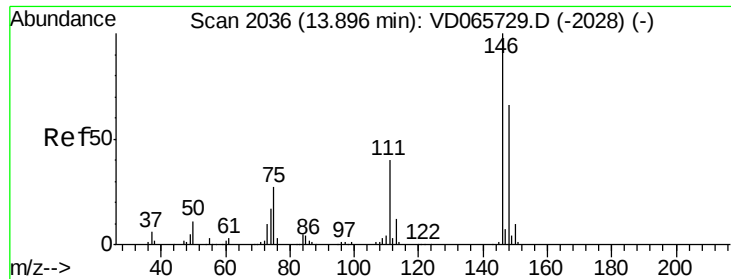
Tot Ion: 91 Resp: 549000  
Ion Ratio Lower Upper  
91 100  
92 54.7 27.0 81.0  
134 27.1 13.9 41.7



#90  
Hexachloroethane  
Concen: 44.013 ug/l  
RT: 14.12 min Scan# 2074  
Delta R.T. 0.00 min  
Lab File: VD065755.D  
Acq: 26 May 2020 11:50

Tgt Ion: 117 Resp: 112881  
Ion Ratio Lower Upper  
117 100  
201 79.9 41.8 125.4

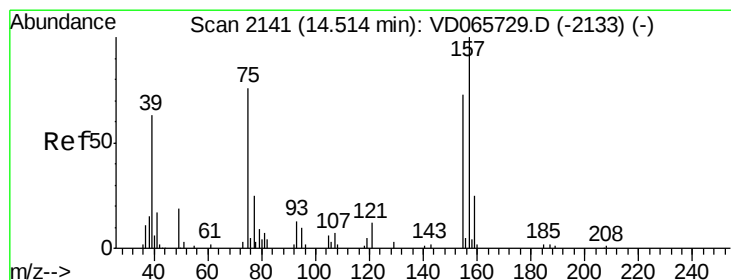
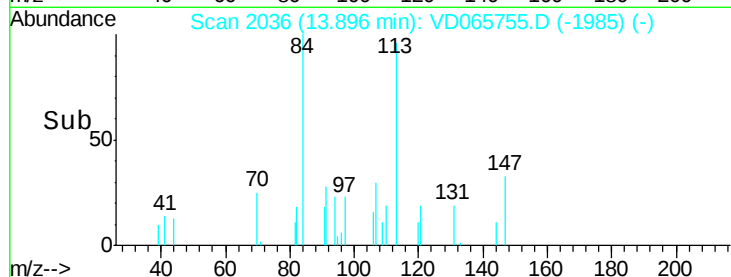
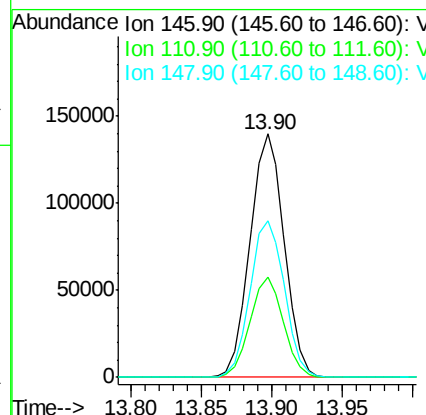
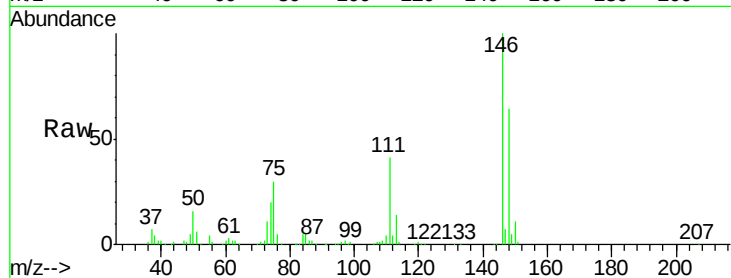




#91  
 1,2-Dichlorobenzene  
 Concen: 42.445 ug/l  
 RT: 13.90 min Scan# 2036  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

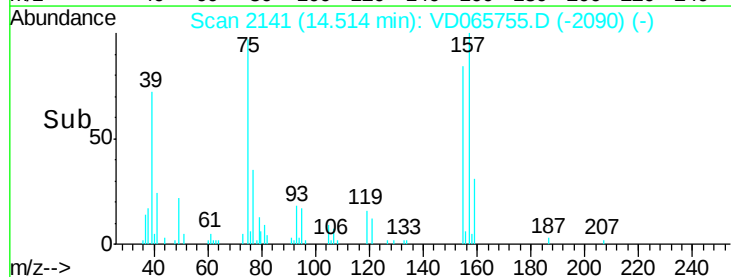
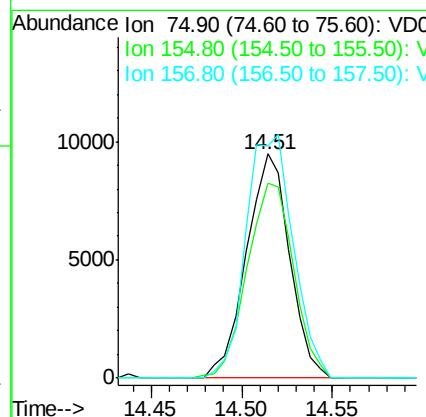
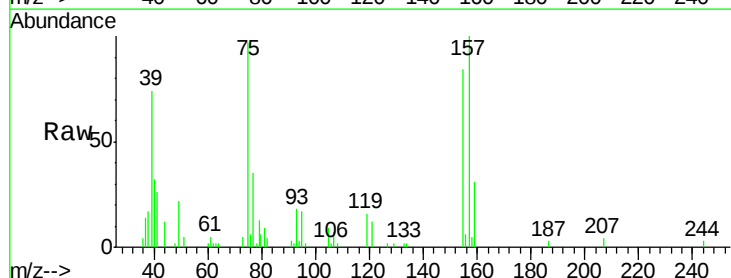
Instrument :  
 MSVOA\_D  
 ClientSampleId :

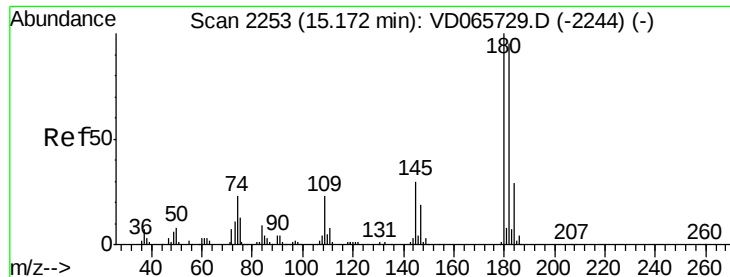
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.4  | 20.0  | 60.0  |
| 148     | 64.7  | 32.4  | 97.2  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 41.315 ug/l  
 RT: 14.51 min Scan# 2141  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 93.4  | 48.4  | 145.0 |
| 157     | 119.0 | 62.6  | 187.8 |

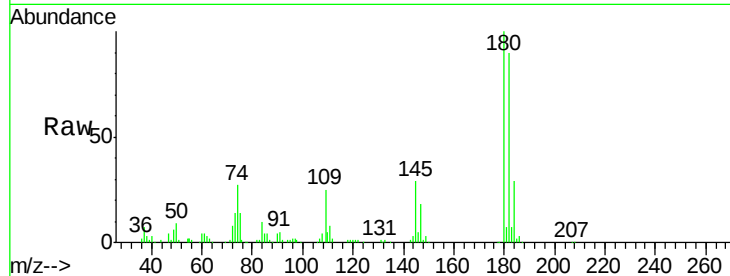




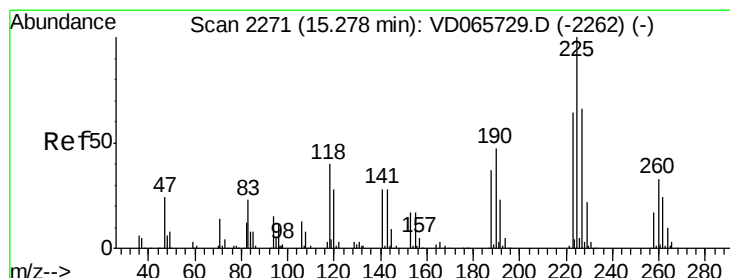
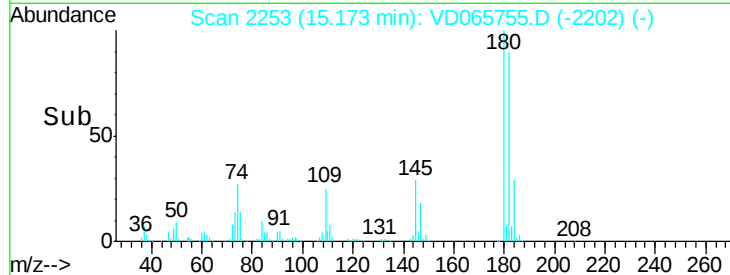
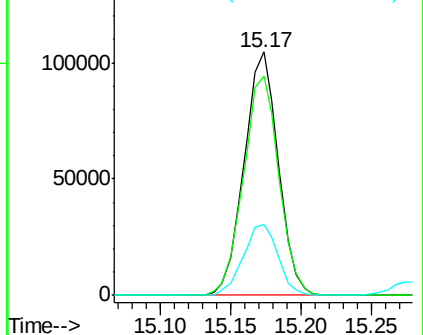
#93  
 1,2,4-Trichlorobenzene  
 Concen: 41.564 ug/l  
 RT: 15.17 min Scan# 2253  
 Delta R.T. 0.00 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.7  | 47.0  | 141.0 |
| 145     | 29.7  | 14.5  | 43.6  |

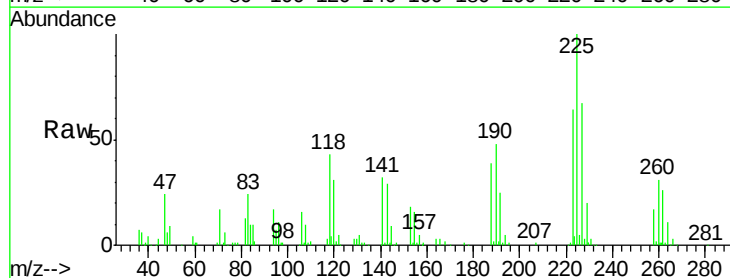


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

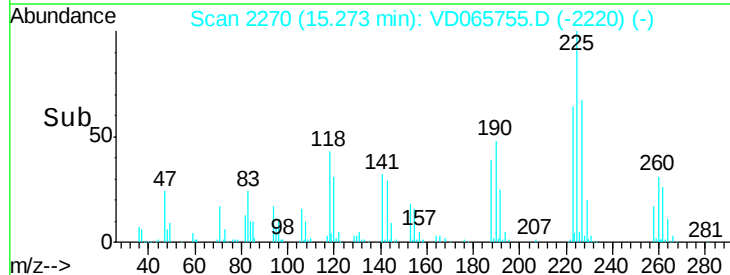
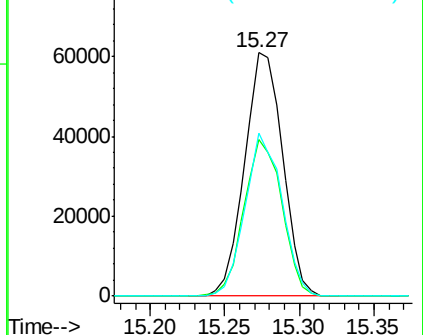


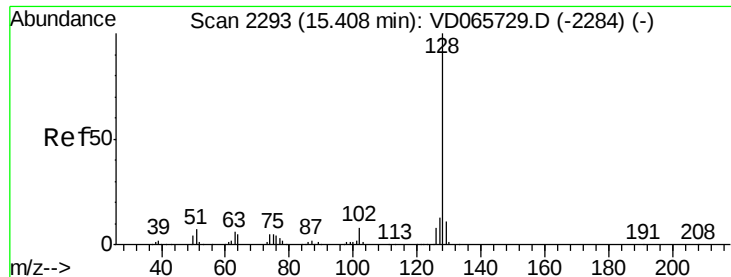
#94  
 Hexachlorobutadiene  
 Concen: 42.053 ug/l  
 RT: 15.27 min Scan# 2270  
 Delta R.T. -0.01 min  
 Lab File: VD065755.D  
 Acq: 26 May 2020 11:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.0  | 31.4  | 94.2  |
| 227     | 64.8  | 32.2  | 96.6  |



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: 41.834 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

Instrument :

MSVOA\_D

ClientSampleId :

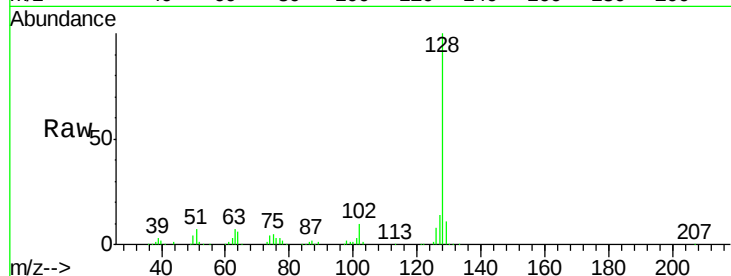
Tot Ion:128 Resp: 296934

Ion Ratio Lower Upper

128 100

127 13.4 10.2 15.2

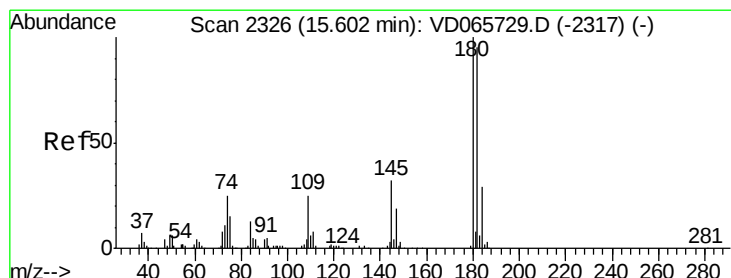
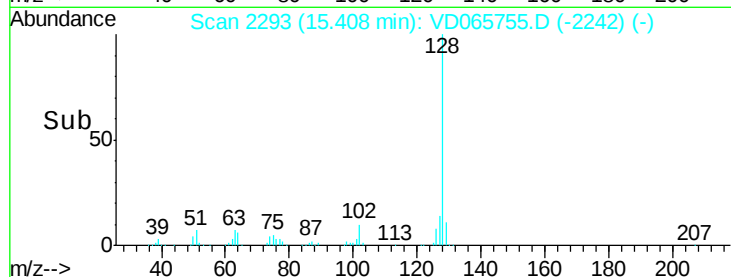
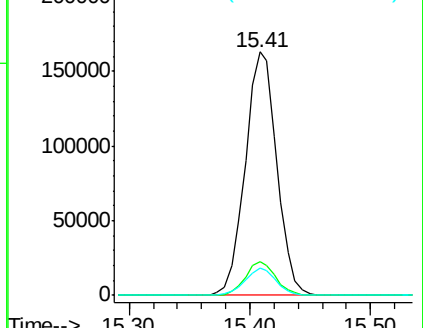
129 10.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 41.220 ug/l

RT: 15.60 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VD065755.D

Acq: 26 May 2020 11:50

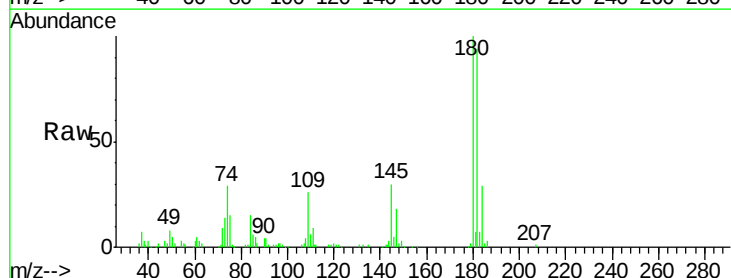
Tgt Ion:180 Resp: 149978

Ion Ratio Lower Upper

180 100

182 94.4 47.5 142.6

145 31.5 15.9 47.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

