

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD050222\  
 Data File : VD072746.D  
 Acq On : 02 May 2022 13:05  
 Operator : VA/SY  
 Sample : VSTDICC100  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC100

Quant Time: May 03 08:05:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:04:11 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/03/2022  
 Supervised By : Mahesh Dadoda 05/03/2022

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 339177               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 565494               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.637         | 117  | 535951               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 249418               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 404753               | 91.931  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 183.860%# |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 378671               | 95.347  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 190.700%# |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 1449666              | 101.758 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 203.520%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 527312               | 99.267  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 198.540%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 454746               | 97.024  | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 462314               | 94.847  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 433253               | 99.057  | ug/l   | 98       |
| 5) Bromomethane              | 2.750          | 94   | 264290               | 90.047  | ug/l   | 97       |
| 6) Chloroethane              | 2.914          | 64   | 261873               | 96.067  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 751310               | 98.097  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.709          | 74   | 208700               | 95.048  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 447664               | 98.453  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.297          | 142  | 483337               | 105.920 | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 130150               | 335.401 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 410200               | 100.297 | ug/l   | 87       |
| 13) Acrolein                 | 3.920          | 56   | 118479               | 383.947 | ug/l   | 99       |
| 14) Allyl chloride           | 4.714          | 41   | 670342               | 101.521 | ug/l   | 94       |
| 15) Acrylonitrile            | 5.414          | 53   | 475823               | 455.984 | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 371603               | 403.980 | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.408          | 76   | 1269728              | 98.737  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.714          | 43   | 219597               | 84.489  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 958045               | 97.714  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.961          | 84   | 478797               | 70.283  | ug/l   | 85       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 462883               | 98.685  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.361          | 45   | 1424140              | 98.046  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.303          | 43   | 3929066              | 489.668 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 839072               | 96.149  | ug/l   | 98       |
| 25) 2-Butanone               | 7.208          | 43   | 575034               | 448.254 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.202          | 77   | 735036               | 99.632  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 527939               | 98.272  | ug/l   | 92       |
| 28) Bromochloromethane       | 7.544          | 49   | 326815               | 100.425 | ug/l   | 87       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 384126               | 469.774 | ug/l   | 94       |
| 30) Chloroform               | 7.708          | 83   | 873195               | 94.564  | ug/l   | 98       |
| 31) Cyclohexane              | 7.979          | 56   | 776369               | 100.874 | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 780870               | 99.224  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 667912               | 103.427 | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.291          | 43   | 267328               | 90.050  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 682381               | 101.794 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.349          | 83   | 825651               | 110.225 | ug/l   | 97       |
| 40) Benzene                  | 8.349          | 78   | 1871533              | 100.355 | ug/l   | 100      |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC100

Quant Time: May 03 08:05:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:04:11 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/03/2022  
 Supervised By : Mahesh Dadoda 05/03/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 159185   | 93.861   | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 532007   | 94.666   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.449  | 43   | 523680   | 95.574   | ug/l # | 96       |
| 44) Trichloroethene           | 9.108  | 130  | 503814   | 100.980  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 466691   | 95.289   | ug/l   | 99       |
| 46) Dibromomethane            | 9.467  | 93   | 252523   | 93.471   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.655  | 83   | 664043   | 95.546   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.449  | 41   | 269894   | 100.686  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 55305    | 1817.894 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 1354462  | 475.709  | ug/l   | 95       |
| 52) Toluene                   | 10.396 | 92   | 1214337  | 104.385  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 621022   | 97.282   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 720491   | 97.145   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.790 | 97   | 342396   | 93.751   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 437846   | 101.821  | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 600223   | 95.769   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 1133036  | 543.456  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.973 | 43   | 921572   | 481.020  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.132 | 129  | 431983   | 93.958   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 330141   | 92.871   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.867 | 164  | 393648   | 100.460  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.661 | 112  | 1256183  | 101.336  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 462108   | 99.192   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 2328983  | 108.561  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.843 | 106  | 1783281  | 215.794  | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 838022   | 108.582  | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 1443225  | 107.930  | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 239806   | 94.979   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.467 | 105  | 2240824  | 115.474  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 519864   | 107.575  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 377437   | 96.353   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 283096m  | 105.093  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 482604   | 104.730  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.808 | 91   | 2783772  | 113.821  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 1562542  | 109.369  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 1857566  | 112.891  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 123267   | 101.922  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 1624849  | 108.849  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.208 | 119  | 1625721  | 116.213  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 1824516  | 110.931  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.390 | 105  | 2423744  | 114.875  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 1985425  | 114.772  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 970590   | 104.557  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 948827   | 102.639  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 1951753  | 116.470  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 381968   | 107.784  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 825104   | 101.987  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 59054    | 95.102   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 502300   | 104.837  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 274699   | 104.981  | ug/l   | 99       |
| 95) Naphthalene               | 15.384 | 128  | 970690   | 110.191  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 439877   | 103.568  | ug/l   | 98       |

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Instrument :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/03/2022  
Supervised By :Mahesh Dadoda 05/03/2022

Quant Time: May 03 08:05:31 2022  
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Quant Title : SW846 8260  
QLast Update : Tue May 03 08:04:11 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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