

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081121\  
 Data File : VD070019.D  
 Acq On : 11 Aug 2021 13:11  
 Operator : VA/SY  
 Sample : VD0811SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0811SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/12/2021 4:50:40 PM

Quant Time: Aug 12 05:27:54 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 517918     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 900107     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.637         | 117  | 844003     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 399255     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 275360     | 46.228   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 92.460%  |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 285168     | 50.256   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 100.520% |        |          |
| 50) Toluene-d8               | 10.331         | 98   | 1090329    | 49.833   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 99.660%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.625         | 95   | 382737     | 52.342   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 104.680% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 118045     | 21.654   | ug/l   | 95       |
| 3) Chloromethane             | 2.208          | 50   | 161344     | 20.403   | ug/l   | 93       |
| 4) Vinyl Chloride            | 2.344          | 62   | 176657     | 21.240   | ug/l   | 97       |
| 5) Bromomethane              | 2.750          | 94   | 115662     | 22.521   | ug/l   | 93       |
| 6) Chloroethane              | 2.908          | 64   | 115188     | 21.367   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 218488     | 21.279   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.708          | 74   | 60595      | 20.981   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 143631     | 22.026   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.296          | 142  | 107688     | 19.030   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.232          | 59   | 35914      | 116.522  | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 4.061          | 96   | 127564     | 21.527   | ug/l   | 92       |
| 13) Acrolein                 | 3.920          | 56   | 29383      | 68.102   | ug/l   | 95       |
| 14) Allyl chloride           | 4.708          | 41   | 184580     | 21.246   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.420          | 53   | 143250     | 105.439  | ug/l   | 100      |
| 16) Acetone                  | 4.149          | 43   | 121104     | 112.548  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.408          | 76   | 428872     | 20.242   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.720          | 43   | 67515      | 21.625   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 266253     | 21.686   | ug/l   | 93       |
| 20) Methylene Chloride       | 4.955          | 84   | 186788     | 20.201   | ug/l   | 100      |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 147206     | 21.082   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.361          | 45   | 420509     | 22.274   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.302          | 43   | 950522     | 104.426  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 273453     | 20.971   | ug/l   | 99       |
| 25) 2-Butanone               | 7.208          | 43   | 161392     | 110.602  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.202          | 77   | 216984     | 21.884   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 158153     | 21.226   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.543          | 49   | 113287     | 22.883   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.567          | 42   | 103560     | 109.695  | ug/l   | 99       |
| 30) Chloroform               | 7.702          | 83   | 273528     | 20.864   | ug/l   | 99       |
| 31) Cyclohexane              | 7.985          | 56   | 248645     | 21.364   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 233231     | 21.493   | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 214535     | 22.086   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.290          | 43   | 74215      | 20.987   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.096          | 117  | 197894     | 22.303   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.355          | 83   | 239149     | 21.497   | ug/l   | 95       |
| 40) Benzene                  | 8.349          | 78   | 611106     | 21.716   | ug/l   | 100      |

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 45066m   | 24.284  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 156358   | 21.009  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.449  | 43   | 140878   | 22.213  | ug/l   | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 152644   | 22.026  | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.384  | 63   | 162306   | 21.957  | ug/l   | 95       |
| 46) Dibromomethane            | 9.473  | 93   | 75929    | 20.897  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.661  | 83   | 194754   | 20.630  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 68248    | 21.847  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 16495    | 429.693 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 366124   | 110.936 | ug/l   | 99       |
| 52) Toluene                   | 10.402 | 92   | 384345   | 22.515  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 179426   | 22.644  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.084 | 75   | 214486   | 22.358  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 108459   | 21.134  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 118178   | 21.070  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.937 | 76   | 190224   | 21.905  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.937  | 63   | 245992   | 101.654 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.978 | 43   | 252969   | 115.881 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.131 | 129  | 125510   | 21.594  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 99148    | 21.458  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 121079   | 22.505  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.667 | 112  | 388198   | 22.201  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.737 | 131  | 136644   | 21.723  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.737 | 91   | 680661   | 22.110  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.849 | 106  | 536487   | 44.954  | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 239652   | 22.089  | ug/l   | 98       |
| 70) Styrene                   | 12.190 | 104  | 420664   | 22.373  | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 66193    | 21.668  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.473 | 105  | 634798   | 22.128  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.278 | 43   | 131836   | 22.343  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 126837   | 22.140  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 87396m   | 20.594  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 140393   | 21.729  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.814 | 91   | 838283   | 22.752  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 473825   | 22.140  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 549171   | 22.379  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 32644    | 23.336  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 503128   | 22.487  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 436339   | 21.870  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 543463   | 22.449  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.390 | 105  | 723244   | 22.930  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 573740   | 22.390  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 295666   | 21.796  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.584 | 146  | 291626   | 21.569  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.831 | 91   | 558131   | 22.070  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 118982   | 21.920  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.878 | 146  | 254028   | 21.697  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 17414    | 21.109  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 136798   | 21.656  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 84554    | 21.882  | ug/l   | 98       |
| 95) Naphthalene               | 15.384 | 128  | 239549   | 21.520  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.578 | 180  | 119620   | 21.897  | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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