

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW080321\  
 Data File : VW019669.D  
 Acq On : 03 Aug 2021 19:30  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.00mL/MSVOA\_W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/4/2021 7:04:44 PM

Quant Time: Aug 04 06:49:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W080321S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 03 16:22:46 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.952  | 168   | 658721   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.842  | 114   | 1101636  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.634 | 117   | 1019080  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.560 | 152   | 489360   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.305  | 65    | 424515   | 50.654   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 101.300% |
| 35) Dibromofluoromethane     | 7.891  | 113   | 364604   | 50.071   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 100.140% |
| 50) Toluene-d8               | 10.323 | 98    | 1423982  | 50.041   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =      | 100.080% |
| 62) 4-Bromofluorobenzene     | 12.615 | 95    | 524814   | 51.689   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =      | 103.380% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.014  | 85    | 185710   | 50.256   | ug/l   | 99       |
| 3) Chloromethane             | 2.215  | 50    | 230175   | 45.726   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.367  | 62    | 344098   | 46.947   | ug/l   | 98       |
| 5) Bromomethane              | 2.782  | 94    | 254465   | 46.387   | ug/l   | 98       |
| 6) Chloroethane              | 2.922  | 64    | 231085   | 49.588   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.263  | 101   | 274815   | 49.382   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.684  | 74    | 179195   | 52.022   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.074  | 101   | 325208   | 48.878   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.275  | 142   | 423915   | 49.449   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.184  | 59    | 108909   | 304.248  | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.044  | 96    | 325844   | 49.645   | ug/l   | 95       |
| 13) Acrolein                 | 3.897  | 56    | 100692   | 281.806  | ug/l   | 98       |
| 14) Allyl chloride           | 4.672  | 41    | 487175   | 51.448   | ug/l   | 91       |
| 15) Acrylonitrile            | 5.367  | 53    | 428681   | 289.207  | ug/l   | 99       |
| 16) Acetone                  | 4.129  | 43    | 323144   | 260.970  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.391  | 76    | 855146   | 49.268   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.672  | 43    | 184397   | 52.722   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.428  | 73    | 537053   | 55.648   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.922  | 84    | 417443   | 51.632   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.428  | 96    | 368712   | 50.698   | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.312  | 45    | 1084699  | 53.783   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.257  | 43    | 3450451  | 293.366  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.220  | 63    | 707319   | 50.815   | ug/l   | 99       |
| 25) 2-Butanone               | 7.171  | 43    | 535538   | 299.100  | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.171  | 77    | 390201   | 50.507   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.171  | 96    | 413188   | 51.540   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.513  | 49    | 278813   | 50.829   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.531  | 42    | 347779   | 302.940  | ug/l   | 97       |
| 30) Chloroform               | 7.677  | 83    | 716661   | 50.731   | ug/l   | 97       |
| 31) Cyclohexane              | 7.958  | 56    | 585868   | 47.717   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.878  | 97    | 559732   | 51.048   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.086  | 75    | 544992   | 50.480   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.250  | 43    | 246088   | 58.773   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.073  | 117   | 516909   | 51.685   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.335  | 83    | 650341   | 52.448   | ug/l   | 96       |
| 40) Benzene                  | 8.323  | 78    | 1505230  | 50.624   | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Tue Aug 03 16:22:46 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.482  | 41   | 148175   | 62.791   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.403  | 62   | 484593   | 52.071   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.427  | 43   | 470685   | 59.263   | ug/l   | 98       |
| 44) Trichloroethene           | 9.092  | 130  | 388880   | 50.848   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.372  | 63   | 385833   | 51.239   | ug/l   | 98       |
| 46) Dibromomethane            | 9.457  | 93   | 210599   | 52.879   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.646  | 83   | 521292   | 52.413   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.439  | 41   | 226536   | 64.179   | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.463  | 88   | 63139    | 1218.040 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.207 | 43   | 1248369  | 300.435  | ug/l   | 98       |
| 52) Toluene                   | 10.390 | 92   | 963622   | 51.446   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.604 | 75   | 534452   | 55.039   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 608848   | 53.626   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 296562   | 53.273   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.646 | 69   | 401325   | 59.945   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.933 | 76   | 518690   | 52.748   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.927  | 63   | 881081   | 283.327  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.969 | 43   | 854998   | 305.175  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.128 | 129  | 330690   | 54.613   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 275122   | 53.001   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.866 | 164  | 305134   | 48.245   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.658 | 112  | 1019221  | 50.401   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 359394   | 51.894   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.731 | 91   | 1894481  | 51.668   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.841 | 106  | 1461231  | 104.326  | ug/l   | 98       |
| 69) o-Xylene                  | 12.164 | 106  | 693260   | 53.422   | ug/l   | 96       |
| 70) Styrene                   | 12.182 | 104  | 1178693  | 53.745   | ug/l   | 99       |
| 71) Bromoform                 | 12.347 | 173  | 185234   | 55.678   | ug/l # | 92       |
| 73) Isopropylbenzene          | 12.463 | 105  | 1883879  | 54.379   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.274 | 43   | 439901   | 60.359   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 364909   | 57.338   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.768 | 75   | 243655m  | 52.297   | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 410694   | 54.010   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.804 | 91   | 2335368  | 54.827   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 1333738  | 53.402   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.945 | 105  | 1620151  | 54.858   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.512 | 75   | 107619   | 52.870   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 1399405  | 53.876   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.207 | 119  | 1379442  | 54.351   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 1612365  | 54.830   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.384 | 105  | 2102957  | 54.569   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.493 | 119  | 1719620  | 54.380   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 852407   | 53.207   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 836508   | 52.518   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.822 | 91   | 1688344  | 54.271   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.091 | 117  | 309304   | 53.615   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.871 | 146  | 752616   | 53.476   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.487 | 75   | 61268    | 59.108   | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.127 | 180  | 481814   | 55.182   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.237 | 225  | 270739   | 53.342   | ug/l   | 98       |
| 95) Naphthalene               | 15.365 | 128  | 982777   | 53.135   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.554 | 180  | 426932   | 55.317   | ug/l   | 97       |

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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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