

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122222\  
 Data File : VY011966.D  
 Acq On : 22 Dec 2022 11:53  
 Operator : KP/MD  
 Sample : VY1222SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1222SBS01

Quant Time: Dec 23 04:31:12 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122022S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.789  | 168   | 217785   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691  | 114   | 331884   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489 | 117   | 299475   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428 | 152   | 152799   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142  | 65    | 105527   | 48.095   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 96.200%  |
| 35) Dibromofluoromethane     | 7.716  | 113   | 97686    | 48.891   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 97.780%  |
| 50) Toluene-d8               | 10.179 | 98    | 398426   | 49.149   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =      | 98.300%  |
| 62) 4-Bromofluorobenzene     | 12.483 | 95    | 133470   | 48.955   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =      | 97.900%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906  | 85    | 22108    | 14.567   | ug/l   | 94       |
| 3) Chloromethane             | 2.113  | 50    | 29804    | 15.376   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.253  | 62    | 34261    | 16.028   | ug/l   | 95       |
| 5) Bromomethane              | 2.643  | 94    | 27373    | 18.000   | ug/l   | 97       |
| 6) Chloroethane              | 2.790  | 64    | 24496    | 17.532   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.125  | 101   | 67690    | 18.090   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.527  | 74    | 21418    | 18.551   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899  | 101   | 37587    | 18.247   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.094  | 142   | 47426    | 16.641   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.948  | 59    | 23414    | 85.542   | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 3.869  | 96    | 37801    | 18.346   | ug/l   | 98       |
| 13) Acrolein                 | 3.729  | 56    | 21991    | 107.218  | ug/l   | 95       |
| 14) Allyl chloride           | 4.479  | 41    | 55240    | 18.205   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.161  | 53    | 51524    | 95.934   | ug/l   | 98       |
| 16) Acetone                  | 3.942  | 43    | 50370    | 80.267   | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.192  | 76    | 108482   | 16.505   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.479  | 43    | 29490    | 19.451   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.222  | 73    | 103049   | 19.492   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.710  | 84    | 57223    | 18.921   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.216  | 96    | 43893    | 18.748   | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.118  | 45    | 118017   | 19.748   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.057  | 43    | 327585   | 95.275   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.021  | 63    | 74486    | 19.175   | ug/l   | 99       |
| 25) 2-Butanone               | 6.984  | 43    | 67469    | 92.312   | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.984  | 77    | 71499    | 18.810   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.984  | 96    | 48920    | 19.319   | ug/l   | 97       |
| 28) Bromochloromethane       | 7.338  | 49    | 20777    | 19.491   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.344  | 42    | 40565    | 97.959   | ug/l   | 95       |
| 30) Chloroform               | 7.508  | 83    | 81976    | 19.579   | ug/l   | 98       |
| 31) Cyclohexane              | 7.783  | 56    | 66093    | 17.893   | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.704  | 97    | 77188    | 19.382   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.917  | 75    | 62150    | 19.392   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.076  | 43    | 27164    | 18.892   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.899  | 117   | 72895    | 19.694   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.185  | 83    | 73481    | 19.054   | ug/l   | 97       |
| 40) Benzene                  | 8.161  | 78    | 178962   | 19.512   | ug/l   | 97       |

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 ALS Vial : 6 Sample Multiplier: 1

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 MSVOA\_Y  
 ClientSampleId :  
 VY1222SBS01

Quant Time: Dec 23 04:31:12 2022  
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 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 14045m   | 20.199  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 52618    | 19.928  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 50743    | 19.323  | ug/l   | 96       |
| 44) Trichloroethene           | 8.941  | 130  | 49901    | 19.303  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 40879    | 19.290  | ug/l   | 100      |
| 46) Dibromomethane            | 9.301  | 93   | 24010    | 19.670  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 61697    | 19.923  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 23125    | 19.019  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 6112     | 419.378 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 139602   | 99.695  | ug/l   | 99       |
| 52) Toluene                   | 10.240 | 92   | 115983   | 19.848  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 61175    | 19.550  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 70292    | 19.984  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 34555    | 19.949  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 43735    | 19.942  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 58521    | 20.244  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 84922    | 100.347 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.831 | 43   | 98893    | 95.998  | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.983 | 129  | 44369    | 20.333  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 32177    | 19.855  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 52502    | 20.029  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.514 | 112  | 125155   | 20.127  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 47644    | 20.594  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 224515   | 19.975  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 177100   | 40.514  | ug/l   | 100      |
| 69) o-Xylene                  | 12.032 | 106  | 81851    | 20.124  | ug/l   | 100      |
| 70) Styrene                   | 12.044 | 104  | 141004   | 20.647  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 28548    | 20.824  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 224569   | 19.806  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 44550    | 19.165  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 37990    | 20.084  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 30715m   | 16.154  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 52687    | 20.085  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 271127   | 19.893  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 153211   | 19.998  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 197687   | 20.364  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 13857    | 19.958  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 159060   | 20.066  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 167222   | 20.325  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 193088   | 20.218  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 248358   | 20.216  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 210447   | 20.301  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 106069   | 20.106  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 104523   | 19.930  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 189809   | 20.227  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 39894    | 20.170  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 93262    | 20.278  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 6750     | 20.765  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 55551    | 20.533  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 37473    | 21.435  | ug/l   | 97       |
| 95) Naphthalene               | 15.233 | 128  | 101603   | 19.830  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 47499    | 20.765  | ug/l   | 99       |

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Sample : VY1222SBSD01  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 6 Sample Multiplier: 1

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MSVOA\_Y  
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Response via : Initial Calibration

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

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

