

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101421\  
 Data File : VY006395.D  
 Acq On : 14 Oct 2021 15:37  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Oct 15 00:16:14 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y092821S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 17:44:36 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Pentafluorobenzene        | 7.795  | 168   | 142947   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691  | 114   | 210789   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5         | 11.496 | 117   | 196104   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428 | 152   | 102195   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4    | 8.149  | 65    | 78375    | 51.227   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | = 102.460% |          |
| 35) Dibromofluoromethane     | 7.722  | 113   | 66836    | 59.349   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | = 118.700% |          |
| 50) Toluene-d8               | 10.179 | 98    | 247433   | 52.498   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | = 105.000% |          |
| 62) 4-Bromofluorobenzene     | 12.483 | 95    | 85151    | 53.182   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | = 106.360% |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.912  | 85    | 63462    | 43.768   | ug/l       | 96       |
| 3) Chloromethane             | 2.119  | 50    | 87421    | 51.764   | ug/l       | 97       |
| 4) Vinyl Chloride            | 2.259  | 62    | 100509   | 53.699   | ug/l       | 98       |
| 5) Bromomethane              | 2.656  | 94    | 65972    | 54.234   | ug/l       | 100      |
| 6) Chloroethane              | 2.802  | 64    | 61371    | 55.725   | ug/l       | 99       |
| 7) Trichlorofluoromethane    | 3.137  | 101   | 131985   | 53.535   | ug/l       | 93       |
| 8) Diethyl Ether             | 3.534  | 74    | 44730    | 54.930   | ug/l       | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905  | 101   | 71998    | 54.705   | ug/l       | 98       |
| 10) Methyl Iodide            | 4.101  | 142   | 73074    | 50.947   | ug/l       | 94       |
| 11) Tert butyl alcohol       | 4.966  | 59    | 34404    | 257.068  | ug/l #     | 94       |
| 12) 1,1-Dichloroethene       | 3.881  | 96    | 71744    | 53.587   | ug/l       | 91       |
| 13) Acrolein                 | 3.741  | 56    | 20597    | 219.572  | ug/l       | 98       |
| 14) Allyl chloride           | 4.485  | 41    | 147904   | 57.445   | ug/l       | 95       |
| 15) Acrylonitrile            | 5.167  | 53    | 117540   | 274.435  | ug/l       | 100      |
| 16) Acetone                  | 3.954  | 43    | 113791   | 266.292  | ug/l       | 97       |
| 17) Carbon Disulfide         | 4.204  | 76    | 222474   | 49.685   | ug/l       | 100      |
| 18) Methyl Acetate           | 4.479  | 43    | 77992    | 54.127   | ug/l       | 99       |
| 19) Methyl tert-butyl Ether  | 5.228  | 73    | 218369   | 55.852   | ug/l       | 97       |
| 20) Methylene Chloride       | 4.722  | 84    | 99496    | 68.965   | ug/l       | 96       |
| 21) trans-1,2-Dichloroethene | 5.228  | 96    | 81114    | 54.647   | ug/l       | 96       |
| 22) Diisopropyl ether        | 6.119  | 45    | 300053   | 58.908   | ug/l       | 99       |
| 23) Vinyl Acetate            | 6.064  | 43    | 856914   | 280.669  | ug/l       | 100      |
| 24) 1,1-Dichloroethane       | 6.021  | 63    | 155683   | 56.932   | ug/l       | 98       |
| 25) 2-Butanone               | 6.990  | 43    | 156431   | 262.802  | ug/l       | 98       |
| 26) 2,2-Dichloropropane      | 6.984  | 77    | 142026   | 56.796   | ug/l       | 98       |
| 27) cis-1,2-Dichloroethene   | 6.990  | 96    | 93655    | 56.338   | ug/l       | 97       |
| 28) Bromochloromethane       | 7.338  | 49    | 67920    | 59.653   | ug/l       | 98       |
| 29) Tetrahydrofuran          | 7.350  | 42    | 99164    | 263.745  | ug/l       | 98       |
| 30) Chloroform               | 7.508  | 83    | 157667   | 57.800   | ug/l       | 98       |
| 31) Cyclohexane              | 7.789  | 56    | 127312   | 43.922   | ug/l       | 97       |
| 32) 1,1,1-Trichloroethane    | 7.704  | 97    | 141765   | 56.285   | ug/l       | 99       |
| 36) 1,1-Dichloropropene      | 7.923  | 75    | 104124   | 49.648   | ug/l       | 99       |
| 37) Ethyl Acetate            | 7.076  | 43    | 68542    | 56.101   | ug/l       | 100      |
| 38) Carbon Tetrachloride     | 7.905  | 117   | 115470   | 52.141   | ug/l       | 98       |
| 39) Methylcyclohexane        | 9.185  | 83    | 126580   | 48.050   | ug/l       | 98       |
| 40) Benzene                  | 8.167  | 78    | 298873   | 50.230   | ug/l       | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 17:44:36 2021  
 Response via : Initial Calibration

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|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 39859m   | 50.294  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 99142    | 51.714  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 113179   | 48.299  | ug/l   | 97       |
| 44) Trichloroethene           | 8.941  | 130  | 79572    | 51.780  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 72729    | 49.651  | ug/l   | 96       |
| 46) Dibromomethane            | 9.307  | 93   | 39198    | 50.255  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.502  | 83   | 104982   | 52.274  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.295  | 41   | 53051    | 47.191  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 9478     | 931.378 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 296276   | 243.504 | ug/l   | 98       |
| 52) Toluene                   | 10.246 | 92   | 188972   | 51.203  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 111453   | 50.899  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 122346   | 50.825  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 55875    | 50.911  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 82238    | 49.299  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 99643    | 50.175  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 205134   | 250.974 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.837 | 43   | 208713   | 240.846 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.983 | 129  | 70193    | 52.642  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 51733    | 49.784  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 89453    | 56.640  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 199211   | 51.270  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 75530    | 52.748  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 376689   | 51.431  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 288052   | 103.641 | ug/l   | 98       |
| 69) o-Xylene                  | 12.032 | 106  | 135627   | 51.669  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 235144   | 52.750  | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 44905    | 50.428  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 367969   | 50.267  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 107126   | 47.148  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 58554    | 44.290  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 54513m   | 54.882  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 85873    | 50.033  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 451677   | 50.126  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 251340   | 50.406  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 310788   | 50.773  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 23769    | 47.025  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 259365   | 50.293  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.075 | 119  | 274602   | 52.474  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 306946   | 50.784  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 402885   | 50.944  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 342782   | 51.364  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 173639   | 51.063  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 171483   | 51.144  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 314848   | 49.651  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 62717    | 51.749  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 150204   | 50.514  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 11827    | 46.956  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 100222   | 51.006  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 65435    | 51.047  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 186656   | 47.813  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 87977    | 50.517  | ug/l   | 98       |

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

