

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092921\  
 Data File : VY006228.D  
 Acq On : 29 Sep 2021 21:06  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 9/30/2021 6:19:21 PM

Quant Time: Sep 30 07:35:31 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  | 164029              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 263983              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.495         | 117  | 249913              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 125317              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 89580               | 51.026  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 102.060% |         |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 68138               | 48.313  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 96.620%  |         |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 276594              | 46.860  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 93.720%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 96527               | 48.139  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 96.280%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 77923               | 46.834  | ug/l   | 99       |
| 3) Chloromethane             | 2.119          | 50   | 91359               | 47.143  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.259          | 62   | 103545              | 48.210  | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 76103               | 54.521  | ug/l   | 96       |
| 6) Chloroethane              | 2.802          | 64   | 64589               | 51.109  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 137346              | 48.549  | ug/l   | 93       |
| 8) Diethyl Ether             | 3.533          | 74   | 49795               | 53.290  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.911          | 101  | 71649               | 47.443  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.100          | 142  | 69499               | 42.227  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 4.960          | 59   | 38152               | 248.434 | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 76116               | 49.546  | ug/l   | 88       |
| 13) Acrolein                 | 3.735          | 56   | 35813               | 323.190 | ug/l   | 97       |
| 14) Allyl chloride           | 4.491          | 41   | 151629              | 51.323  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.173          | 53   | 133884              | 272.419 | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 104239              | 212.586 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.204          | 76   | 252304              | 49.105  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.485          | 43   | 94547               | 57.183  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 248891              | 55.476  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.728          | 84   | 91059               | 54.186  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 87275               | 51.241  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.131          | 45   | 312431              | 53.454  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.070          | 43   | 922482              | 263.312 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 163014              | 51.951  | ug/l   | 99       |
| 25) 2-Butanone               | 6.996          | 43   | 170325              | 249.367 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 134931              | 47.024  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 102134              | 53.542  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.344          | 49   | 68866               | 52.710  | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 116018              | 268.912 | ug/l   | 95       |
| 30) Chloroform               | 7.514          | 83   | 167619              | 53.551  | ug/l   | 99       |
| 31) Cyclohexane              | 7.795          | 56   | 151316              | 45.494  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 150286              | 51.999  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 125256              | 47.690  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.082          | 43   | 77487               | 50.643  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 133155              | 48.011  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.191          | 83   | 153404              | 46.499  | ug/l   | 98       |
| 40) Benzene                  | 8.167          | 78   | 374766              | 50.294  | ug/l   | 99       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 39887m   | 40.188  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 126878   | 52.846  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 152020   | 51.802  | ug/l   | 97       |
| 44) Trichloroethene           | 8.947  | 130  | 97149    | 50.479  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.221  | 63   | 92548    | 50.450  | ug/l   | 95       |
| 46) Dibromomethane            | 9.307  | 93   | 50055    | 51.243  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.502  | 83   | 131366   | 52.231  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 71824    | 51.016  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 11948    | 937.511 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 403489   | 264.797 | ug/l   | 96       |
| 52) Toluene                   | 10.246 | 92   | 236337   | 51.133  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 139743   | 50.959  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 151920   | 50.393  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 73022    | 53.128  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 112041   | 53.631  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 128210   | 51.551  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 249088   | 243.341 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 282315   | 260.133 | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.989 | 129  | 88592    | 53.053  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 68650    | 52.751  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 108447   | 53.882  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.520 | 112  | 245845   | 49.649  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 92731    | 50.817  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 458866   | 49.162  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 351190   | 99.152  | ug/l   | 98       |
| 69) o-Xylene                  | 12.032 | 106  | 167921   | 50.198  | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 293398   | 51.646  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 58558    | 51.601  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 438240   | 48.820  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 142588   | 51.177  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 77560    | 47.841  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 58468m   | 48.003  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 105545   | 50.148  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 532716   | 48.211  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 301792   | 49.357  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 368768   | 49.130  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 30238    | 48.786  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 310605   | 49.116  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 321360   | 50.078  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 365568   | 49.323  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 469161   | 48.378  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 397285   | 48.547  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 207857   | 49.847  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 203854   | 49.581  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 366489   | 47.131  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.958 | 117  | 72540    | 48.811  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 185332   | 50.828  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 15527    | 50.272  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 118320   | 49.106  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 72422    | 46.073  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 243577   | 50.881  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 106226   | 49.742  | ug/l   | 99       |

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

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