

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081721\  
 Data File : VY005705.D  
 Acq On : 17 Aug 2021 11:02  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 8/18/2021 6:59:40 PM

Quant Time: Aug 18 01:50:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 03 04:52:05 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.795  | 168   | 224998   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691  | 114   | 325569   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490 | 117   | 296025   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428 | 152   | 158755   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149  | 65    | 111176   | 48.814   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 97.620%  |
| 35) Dibromofluoromethane     | 7.722  | 113   | 90001    | 49.376   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 98.760%  |
| 50) Toluene-d8               | 10.185 | 98    | 366852   | 47.988   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =      | 95.980%  |
| 62) 4-Bromofluorobenzene     | 12.483 | 95    | 124115   | 49.028   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =      | 98.060%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912  | 85    | 78597    | 42.531   | ug/l   | 97       |
| 3) Chloromethane             | 2.119  | 50    | 92276    | 41.802   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.260  | 62    | 116799   | 44.174   | ug/l   | 99       |
| 5) Bromomethane              | 2.656  | 94    | 75121    | 43.164   | ug/l   | 99       |
| 6) Chloroethane              | 2.802  | 64    | 73657    | 46.151   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.131  | 101   | 161496   | 45.619   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.540  | 74    | 53849    | 43.552   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906  | 101   | 88005    | 45.831   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.101  | 142   | 102075   | 42.668   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.966  | 59    | 48374    | 214.852  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.881  | 96    | 85635    | 44.164   | ug/l   | 98       |
| 13) Acrolein                 | 3.741  | 56    | 31642    | 232.931  | ug/l   | 98       |
| 14) Allyl chloride           | 4.491  | 41    | 160851   | 47.362   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.174  | 53    | 142475   | 224.844  | ug/l   | 100      |
| 16) Acetone                  | 3.954  | 43    | 162478   | 282.953  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.204  | 76    | 249609   | 41.760   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485  | 43    | 64732    | 43.103   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.229  | 73    | 273241   | 45.487   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.723  | 84    | 115706   | 50.952   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.229  | 96    | 96251    | 44.399   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.125  | 45    | 331351   | 47.293   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.070  | 43    | 1099684  | 235.846  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.027  | 63    | 183549   | 47.272   | ug/l   | 99       |
| 25) 2-Butanone               | 6.996  | 43    | 211789   | 249.511  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.984  | 77    | 171274   | 48.280   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.990  | 96    | 112855   | 45.771   | ug/l   | 97       |
| 28) Bromochloromethane       | 7.338  | 49    | 72307    | 46.657   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.356  | 42    | 127882   | 227.783  | ug/l   | 97       |
| 30) Chloroform               | 7.515  | 83    | 184841   | 46.641   | ug/l   | 99       |
| 31) Cyclohexane              | 7.789  | 56    | 170020   | 43.521   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.710  | 97    | 172036   | 47.223   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.923  | 75    | 143865   | 47.113   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.082  | 43    | 85343    | 46.133   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.905  | 117   | 157957   | 47.595   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185  | 83    | 176232   | 45.363   | ug/l   | 99       |
| 40) Benzene                  | 8.167  | 78    | 404718   | 46.283   | ug/l   | 98       |

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 ALS Vial : 2 Sample Multiplier: 1

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 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Quant Time: Aug 18 01:50:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 03 04:52:05 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 41) Methacrylonitrile         | 7.320  | 41   | 43839m   | 43.676  | ug/l  |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 131988   | 46.533  | ug/l  | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 164912   | 47.086  | ug/l  | 98       |
| 44) Trichloroethene           | 8.941  | 130  | 108753   | 45.568  | ug/l  | 97       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 104147   | 47.607  | ug/l  | 100      |
| 46) Dibromomethane            | 9.307  | 93   | 55703    | 46.050  | ug/l  | 97       |
| 47) Bromodichloromethane      | 9.502  | 83   | 142744   | 47.152  | ug/l  | 100      |
| 48) Methyl methacrylate       | 9.295  | 41   | 74829    | 47.276  | ug/l  | 96       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 16130    | 959.485 | ug/l  | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 441078   | 239.139 | ug/l  | 100      |
| 52) Toluene                   | 10.246 | 92   | 260925   | 46.796  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 157858   | 46.659  | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 171723   | 46.769  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 80927    | 46.239  | ug/l  | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 121717   | 46.445  | ug/l  | 96       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 141983   | 46.004  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 338478   | 270.302 | ug/l  | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 323174   | 247.901 | ug/l  | 99       |
| 60) Dibromochloromethane      | 10.990 | 129  | 99573    | 45.972  | ug/l  | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 75897    | 45.779  | ug/l  | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 106638   | 47.326  | ug/l  | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 281630   | 47.277  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 105750   | 47.166  | ug/l  | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 511200   | 47.325  | ug/l  | 97       |
| 68) m/p-Xylenes               | 11.703 | 106  | 397551   | 94.757  | ug/l  | 98       |
| 69) o-Xylene                  | 12.032 | 106  | 187623   | 46.528  | ug/l  | 98       |
| 70) Styrene                   | 12.044 | 104  | 322763   | 47.552  | ug/l  | 99       |
| 71) Bromoform                 | 12.209 | 173  | 67417    | 46.367  | ug/l  | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 512510   | 46.249  | ug/l  | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 155048   | 46.480  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 95751    | 44.924  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 66610m   | 40.488  | ug/l  |          |
| 77) Bromobenzene              | 12.611 | 156  | 122218   | 44.891  | ug/l  | 97       |
| 78) n-propylbenzene           | 12.672 | 91   | 617993   | 46.955  | ug/l  | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 340765   | 46.108  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 427594   | 46.495  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 37125    | 45.491  | ug/l  | 98       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 347865   | 45.491  | ug/l  | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 377849   | 45.787  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 423561   | 46.676  | ug/l  | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 561082   | 47.139  | ug/l  | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 485585   | 47.517  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 246192   | 46.343  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 243019   | 46.113  | ug/l  | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 444587   | 48.021  | ug/l  | 100      |
| 90) Hexachloroethane          | 13.965 | 117  | 85459    | 46.514  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 215869   | 46.004  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 17749    | 43.928  | ug/l  | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 155095   | 48.116  | ug/l  | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 100574   | 48.188  | ug/l  | 100      |
| 95) Naphthalene               | 15.239 | 128  | 296558   | 46.672  | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 134479   | 47.092  | ug/l  | 100      |

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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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