

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081021\  
 Data File : VY005581.D  
 Acq On : 10 Aug 2021 09:00  
 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  
 8/11/2021 5:16:15 PM

Quant Time: Aug 11 03:34:38 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   | 273531   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691  | 114   | 398271   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5         | 11.490 | 117   | 359003   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428 | 152   | 186172   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4    | 8.149  | 65    | 140507   | 50.746   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | = 101.500% |          |
| 35) Dibromofluoromethane     | 7.722  | 113   | 115786   | 51.926   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | = 103.860% |          |
| 50) Toluene-d8               | 10.185 | 98    | 472027   | 50.475   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | = 100.940% |          |
| 62) 4-Bromofluorobenzene     | 12.483 | 95    | 157691   | 50.920   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | = 101.840% |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.912  | 85    | 100196   | 44.599   | ug/l       | 98       |
| 3) Chloromethane             | 2.119  | 50    | 124085   | 46.238   | ug/l       | 100      |
| 4) Vinyl Chloride            | 2.259  | 62    | 154888   | 48.186   | ug/l       | 99       |
| 5) Bromomethane              | 2.656  | 94    | 91680    | 43.332   | ug/l       | 99       |
| 6) Chloroethane              | 2.802  | 64    | 91781    | 47.303   | ug/l       | 100      |
| 7) Trichlorofluoromethane    | 3.131  | 101   | 213518   | 49.612   | ug/l       | 100      |
| 8) Diethyl Ether             | 3.534  | 74    | 74072    | 49.278   | ug/l       | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906  | 101   | 117693   | 50.416   | ug/l       | 99       |
| 10) Methyl Iodide            | 4.101  | 142   | 149737   | 51.486   | ug/l       | 99       |
| 11) Tert butyl alcohol       | 4.966  | 59    | 66861    | 244.271  | ug/l       | 100      |
| 12) 1,1-Dichloroethene       | 3.881  | 96    | 118625   | 50.322   | ug/l       | 98       |
| 13) Acrolein                 | 3.735  | 56    | 31562    | 191.117  | ug/l       | 97       |
| 14) Allyl chloride           | 4.485  | 41    | 217116   | 52.586   | ug/l       | 99       |
| 15) Acrylonitrile            | 5.174  | 53    | 193800   | 251.575  | ug/l       | 99       |
| 16) Acetone                  | 3.954  | 43    | 207200   | 296.812  | ug/l       | 97       |
| 17) Carbon Disulfide         | 4.198  | 76    | 347361   | 47.802   | ug/l       | 100      |
| 18) Methyl Acetate           | 4.485  | 43    | 86886    | 47.589   | ug/l       | 100      |
| 19) Methyl tert-butyl Ether  | 5.228  | 73    | 378856   | 51.879   | ug/l       | 98       |
| 20) Methylene Chloride       | 4.722  | 84    | 150781   | 55.113   | ug/l       | 98       |
| 21) trans-1,2-Dichloroethene | 5.228  | 96    | 133224   | 50.550   | ug/l       | 96       |
| 22) Diisopropyl ether        | 6.125  | 45    | 459222   | 53.914   | ug/l       | 96       |
| 23) Vinyl Acetate            | 6.070  | 43    | 1483735  | 261.751  | ug/l       | 99       |
| 24) 1,1-Dichloroethane       | 6.027  | 63    | 253003   | 53.598   | ug/l       | 99       |
| 25) 2-Butanone               | 6.990  | 43    | 272898   | 264.459  | ug/l       | 99       |
| 26) 2,2-Dichloropropane      | 6.984  | 77    | 234342   | 54.337   | ug/l       | 99       |
| 27) cis-1,2-Dichloroethene   | 6.996  | 96    | 155280   | 51.804   | ug/l       | 96       |
| 28) Bromochloromethane       | 7.338  | 49    | 93814    | 49.794   | ug/l       | 96       |
| 29) Tetrahydrofuran          | 7.356  | 42    | 167462   | 245.358  | ug/l       | 100      |
| 30) Chloroform               | 7.515  | 83    | 256229   | 53.182   | ug/l       | 98       |
| 31) Cyclohexane              | 7.789  | 56    | 230910   | 48.620   | ug/l       | 100      |
| 32) 1,1,1-Trichloroethane    | 7.710  | 97    | 235610   | 53.198   | ug/l       | 99       |
| 36) 1,1-Dichloropropene      | 7.923  | 75    | 194586   | 52.091   | ug/l       | 99       |
| 37) Ethyl Acetate            | 7.082  | 43    | 114115   | 50.426   | ug/l       | 99       |
| 38) Carbon Tetrachloride     | 7.905  | 117   | 214133   | 52.743   | ug/l       | 98       |
| 39) Methylcyclohexane        | 9.185  | 83    | 242765   | 51.082   | ug/l       | 100      |
| 40) Benzene                  | 8.167  | 78    | 556769   | 52.049   | 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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MMDadoda  
 8/11/2021 5:16:15 PM

Quant Time: Aug 11 03:34:38 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   | 60582m   | 49.339  | ug/l  |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 183437   | 52.866  | ug/l  | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 218940   | 51.101  | ug/l  | 99       |
| 44) Trichloroethene           | 8.941  | 130  | 154021   | 52.755  | ug/l  | 100      |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 141411   | 52.841  | ug/l  | 100      |
| 46) Dibromomethane            | 9.307  | 93   | 76263    | 51.538  | ug/l  | 99       |
| 47) Bromodichloromethane      | 9.502  | 83   | 198994   | 53.733  | ug/l  | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 99956    | 51.623  | ug/l  | 99       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 20428    | 993.331 | ug/l  | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 575863   | 255.222 | ug/l  | 100      |
| 52) Toluene                   | 10.246 | 92   | 357942   | 52.478  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 220212   | 53.207  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 241862   | 53.848  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 111323   | 51.995  | ug/l  | 99       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 169275   | 52.801  | ug/l  | 99       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 197314   | 52.261  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 404448   | 264.026 | ug/l  | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 421200   | 264.116 | ug/l  | 99       |
| 60) Dibromochloromethane      | 10.984 | 129  | 139781   | 52.755  | ug/l  | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 104861   | 51.704  | ug/l  | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 150962   | 55.244  | ug/l  | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 384271   | 53.191  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 145708   | 53.588  | ug/l  | 100      |
| 67) Ethyl Benzene             | 11.593 | 91   | 703961   | 53.738  | ug/l  | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 542440   | 106.610 | ug/l  | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 257771   | 52.710  | ug/l  | 98       |
| 70) Styrene                   | 12.044 | 104  | 445217   | 54.086  | ug/l  | 100      |
| 71) Bromoform                 | 12.209 | 173  | 93623    | 53.095  | ug/l  | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 689029   | 53.021  | ug/l  | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 204887   | 52.375  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 125697   | 50.289  | ug/l  | 98       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 85988m   | 44.570  | ug/l  |          |
| 77) Bromobenzene              | 12.611 | 156  | 167539   | 52.475  | ug/l  | 97       |
| 78) n-propylbenzene           | 12.672 | 91   | 834185   | 54.047  | ug/l  | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 462776   | 53.396  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 574314   | 53.252  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 49161    | 51.367  | ug/l  | 98       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 483355   | 53.901  | ug/l  | 100      |
| 83) tert-Butylbenzene         | 13.075 | 119  | 512438   | 52.952  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 572227   | 53.773  | ug/l  | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 757248   | 54.251  | ug/l  | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 645884   | 53.896  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 330991   | 53.130  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 324766   | 52.550  | ug/l  | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 588695   | 54.223  | ug/l  | 100      |
| 90) Hexachloroethane          | 13.959 | 117  | 116795   | 54.208  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 287776   | 52.296  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 23701    | 50.020  | ug/l  | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 202411   | 53.547  | ug/l  | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 132597   | 54.175  | ug/l  | 99       |
| 95) Naphthalene               | 15.239 | 128  | 382485   | 51.330  | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 175827   | 52.503  | ug/l  | 99       |

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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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