

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072321\  
 Data File : VY005417.D  
 Acq On : 23 Jul 2021 15:05  
 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  
 7/26/2021 5:20:25 PM

Quant Time: Jul 24 02:59:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 06:20:14 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.795  | 168   | 306395   | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697  | 114   | 388241   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496 | 117   | 359893   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428 | 152   | 190441   | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149  | 65    | 155023   | 47.36    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 94.72%   |
| 35) Dibromofluoromethane     | 7.728  | 113   | 142709   | 63.66    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 127.32%  |
| 50) Toluene-d8               | 10.185 | 98    | 526327   | 55.40    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =      | 110.80%  |
| 62) 4-Bromofluorobenzene     | 12.483 | 95    | 173753   | 55.41    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =      | 110.82%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912  | 85    | 116044   | 41.84    | ug/l   | 98       |
| 3) Chloromethane             | 2.119  | 50    | 146342   | 43.04    | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.259  | 62    | 175880   | 43.44    | ug/l   | 98       |
| 5) Bromomethane              | 2.656  | 94    | 131940   | 44.59    | ug/l   | 96       |
| 6) Chloroethane              | 2.802  | 64    | 117921   | 46.36    | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.131  | 101   | 247237   | 46.70    | ug/l   | 96       |
| 8) Diethyl Ether             | 3.540  | 74    | 90567    | 48.59    | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905  | 101   | 137117   | 47.65    | ug/l   | 99       |
| 10) Methyl Iodide            | 4.101  | 142   | 161281   | 49.38    | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.985  | 59    | 71870    | 232.42   | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 3.881  | 96    | 140551   | 47.98    | ug/l   | 96       |
| 13) Acrolein                 | 3.741  | 56    | 60713    | 214.41   | ug/l   | 97       |
| 14) Allyl chloride           | 4.491  | 41    | 247247   | 47.16    | ug/l   | 98       |
| 15) Acrylonitrile            | 5.180  | 53    | 226955   | 245.19   | ug/l   | 99       |
| 16) Acetone                  | 3.966  | 43    | 214089   | 286.39   | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.204  | 76    | 458030   | 47.28    | ug/l   | 100      |
| 18) Methyl Acetate           | 4.491  | 43    | 101153   | 48.14    | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.228  | 73    | 437696   | 49.52    | ug/l   | 98       |
| 20) Methylene Chloride       | 4.728  | 84    | 209226   | 52.91    | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.234  | 96    | 157655   | 47.90    | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.131  | 45    | 517363   | 50.85    | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.070  | 43    | 1741298  | 260.19   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.027  | 63    | 281896   | 50.26    | ug/l   | 99       |
| 25) 2-Butanone               | 7.002  | 43    | 305991   | 273.34   | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 6.990  | 77    | 257317   | 50.46    | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.996  | 96    | 179946   | 51.11    | ug/l   | 99       |
| 28) Bromochloromethane       | 7.344  | 49    | 113810   | 50.41    | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.362  | 42    | 197965   | 267.04   | ug/l   | 100      |
| 30) Chloroform               | 7.515  | 83    | 285262   | 51.41    | ug/l   | 98       |
| 31) Cyclohexane              | 7.789  | 56    | 276238   | 49.42    | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.710  | 97    | 259029   | 50.42    | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.923  | 75    | 197934   | 52.73    | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.088  | 43    | 132596   | 58.03    | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.905  | 117   | 216071   | 52.67    | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185  | 83    | 253108   | 52.58    | ug/l   | 98       |
| 40) Benzene                  | 8.167  | 78    | 559155   | 51.83    | ug/l   | 99       |

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 ALS Vial : 2 Sample Multiplier: 1

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 VSTDCCC050

Manual Integrations  
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Quant Time: Jul 24 02:59:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 06:20:14 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 71505m   | 59.71   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 183567   | 52.60   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 219129   | 52.95   | ug/l   | 100      |
| 44) Trichloroethene           | 8.947  | 130  | 151645   | 51.83   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 137057   | 51.60   | ug/l   | 97       |
| 46) Dibromomethane            | 9.313  | 93   | 77064    | 52.71   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.502  | 83   | 192669   | 52.43   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.301  | 41   | 101335   | 52.66   | ug/l   | 100      |
| 49) 1,4-Dioxane               | 9.313  | 88   | 21645    | 1049.56 | ug/l # | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 588030   | 267.67  | ug/l   | 99       |
| 52) Toluene                   | 10.246 | 92   | 357954   | 52.25   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 219279   | 53.34   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 234734   | 51.94   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 110798   | 52.81   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 170005   | 53.66   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 195116   | 52.28   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 429974   | 283.77  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 428359   | 278.20  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.990 | 129  | 139265   | 54.35   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 105668   | 53.20   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 142693   | 52.48   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.520 | 112  | 379128   | 51.43   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 145597   | 52.89   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 704092   | 52.47   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 549462   | 105.45  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 261448   | 52.74   | ug/l   | 99       |
| 70) Styrene                   | 12.050 | 104  | 447615   | 53.18   | ug/l   | 99       |
| 71) Bromoform                 | 12.215 | 173  | 94429    | 53.67   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 692639   | 52.74   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 211808   | 52.97   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 131360   | 52.39   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 100279m  | 53.51   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 167611   | 52.12   | ug/l   | 100      |
| 78) n-propylbenzene           | 12.672 | 91   | 832606   | 52.55   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 461198   | 51.82   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 580843   | 52.95   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 50124    | 51.94   | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 480685   | 52.18   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.081 | 119  | 516619   | 52.87   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 578400   | 52.57   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.257 | 105  | 751855   | 53.35   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 643929   | 53.07   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 331162   | 52.50   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 327804   | 52.45   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.702 | 91   | 594174   | 53.35   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 115577   | 52.99   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 290954   | 51.66   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 24960    | 51.33   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 205556   | 52.89   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 131762   | 53.50   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 417710   | 53.43   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 184671   | 52.72   | ug/l   | 100      |

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ALS Vial : 2 Sample Multiplier: 1

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ClientSampleId :  
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7/26/2021 5:20:25 PM

Quant Time: Jul 24 02:59:17 2021  
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Quant Title : SW846 8260  
QLast Update : Fri Jul 23 06:20:14 2021  
Response via : Initial Calibration

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

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

