

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042121\  
 Data File : VY004570.D  
 Acq On : 21 Apr 2021 20:48  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/22/2021 5:27:35 PM

Quant Time: Apr 22 11:22:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 13 03:38:02 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 126776             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 214938             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 198588             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 94138              | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.148          | 65   | 84186              | 59.77  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 119.54% |        |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 62359              | 52.28  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 104.56% |        |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 271202             | 53.45  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 106.90% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 91010              | 52.86  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 105.72% |        |        |          |
| Target Compounds             |                |      |                    |        |        |          |
|                              |                |      |                    |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 57939              | 49.33  | ug/l   | 99       |
| 3) Chloromethane             | 2.119          | 50   | 90316              | 53.17  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.259          | 62   | 103559             | 57.73  | ug/l   | 100      |
| 5) Bromomethane              | 2.656          | 94   | 49611              | 56.68  | ug/l   | 98       |
| 6) Chloroethane              | 2.796          | 64   | 59621              | 55.44  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 116970             | 52.14  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.533          | 74   | 42773              | 56.41  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.911          | 101  | 63337              | 50.90  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.100          | 142  | 71325              | 47.89  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.978          | 59   | 42546              | 306.49 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 63801              | 51.85  | ug/l   | 97       |
| 13) Acrolein                 | 3.741          | 56   | 37133              | 240.63 | ug/l   | 97       |
| 14) Allyl chloride           | 4.491          | 41   | 128079             | 54.42  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.173          | 53   | 123261             | 303.00 | ug/l   | 98       |
| 16) Acetone                  | 3.960          | 43   | 100505             | 343.36 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.204          | 76   | 186507             | 49.22  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.491          | 43   | 60633              | 61.80  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 214271             | 57.95  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.728          | 84   | 91429              | 67.20  | ug/l   | 100      |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 74858              | 53.76  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.131          | 45   | 288340             | 57.96  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.070          | 43   | 1000172            | 295.33 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 141634             | 55.73  | ug/l   | 99       |
| 25) 2-Butanone               | 6.996          | 43   | 175986             | 327.99 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.996          | 77   | 114841             | 50.36  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 86282              | 55.38  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.344          | 49   | 71860              | 62.21  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 119411             | 311.49 | ug/l   | 99       |
| 30) Chloroform               | 7.514          | 83   | 140222             | 56.14  | ug/l   | 100      |
| 31) Cyclohexane              | 7.789          | 56   | 126848             | 49.12  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 122440             | 54.03  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 106717             | 49.97  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.088          | 43   | 81978              | 59.60  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 98353              | 53.27  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 128131             | 48.73  | ug/l   | 98       |
| 40) Benzene                  | 8.167          | 78   | 318440             | 53.05  | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Tue Apr 13 03:38:02 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.325  | 41   | 41779m   | 50.12   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 102526   | 54.45   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.277  | 43   | 152947   | 58.66   | ug/l   | 98       |
| 44) Trichloroethene           | 8.941  | 130  | 84379    | 51.56   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.221  | 63   | 84990    | 54.86   | ug/l   | 99       |
| 46) Dibromomethane            | 9.313  | 93   | 47142    | 55.90   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.502  | 83   | 111980   | 54.84   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.295  | 41   | 70139    | 58.41   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 13212    | 1199.50 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 413472   | 308.72  | ug/l   | 99       |
| 52) Toluene                   | 10.246 | 92   | 199583   | 51.39   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 121884   | 54.12   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 134617   | 52.63   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 65172    | 56.08   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 96135    | 57.05   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 117451   | 56.64   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 263897   | 306.06  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 284013   | 316.33  | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.989 | 129  | 77472    | 56.10   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 62726    | 55.99   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 90516    | 52.35   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 206775   | 51.02   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 75406    | 52.13   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 382864   | 50.49   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 285596   | 101.36  | ug/l   | 100      |
| 69) o-Xylene                  | 12.032 | 106  | 136252   | 51.60   | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 231025   | 52.82   | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 47281    | 55.11   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 360755   | 49.59   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 137684   | 56.22   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 74626    | 54.22   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.635 | 75   | 52738m   | 52.20   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 82515    | 50.61   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.672 | 91   | 431421   | 50.20   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 237930   | 50.63   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 299422   | 50.64   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 28869    | 51.11   | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 248267   | 50.02   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 250003   | 49.40   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 303355   | 50.84   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 355853   | 50.41   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 319717   | 49.79   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 155865   | 51.18   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 153836   | 50.18   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.696 | 91   | 299307   | 48.83   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 47219    | 54.81   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 138853   | 51.36   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 12987    | 52.59   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 84602    | 47.33   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 43358    | 46.46   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 198053   | 50.97   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 75876    | 48.12   | 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

