

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD031921\  
 Data File : VD068664.D  
 Acq On : 19 Mar 2021 14:32  
 Operator : VA/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 3/22/2021 11:36:58 AM

Quant Time: Mar 20 01:29:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031921S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 20 01:26:46 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 342130             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 581874             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.644         | 117  | 522467             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 259092             | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 180291             | 52.17  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 104.34% |        |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 189054             | 53.15  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 106.30% |        |        |          |
| 50) Toluene-d8               | 10.344         | 98   | 746019             | 52.67  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 105.34% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 236978             | 52.12  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 104.24% |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 129013             | 40.39  | ug/l   | 100      |
| 3) Chloromethane             | 2.209          | 50   | 158308             | 39.20  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.350          | 62   | 189508             | 39.64  | ug/l   | 100      |
| 5) Bromomethane              | 2.768          | 94   | 130196             | 38.04  | ug/l   | 100      |
| 6) Chloroethane              | 2.926          | 64   | 123618             | 39.78  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 226013             | 41.16  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.709          | 74   | 65327              | 40.12  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 136629             | 40.82  | ug/l   | 100      |
| 10) Methyl Iodide            | 4.303          | 142  | 158840             | 45.02  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.232          | 59   | 39236              | 216.64 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 136697             | 41.17  | ug/l   | 100      |
| 13) Acrolein                 | 3.932          | 56   | 30562              | 129.09 | ug/l   | 100      |
| 14) Allyl chloride           | 4.720          | 41   | 163328             | 38.56  | ug/l   | 100      |
| 15) Acrylonitrile            | 5.426          | 53   | 158955             | 226.62 | ug/l   | 100      |
| 16) Acetone                  | 4.162          | 43   | 100467             | 194.34 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.415          | 76   | 438262             | 40.45  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.720          | 43   | 59106              | 43.02  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 343464             | 46.57  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.967          | 84   | 174849             | 38.83  | ug/l   | 100      |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 187823             | 46.38  | ug/l   | 100      |
| 22) Diisopropyl ether        | 6.367          | 45   | 422959             | 44.33  | ug/l   | 100      |
| 23) Vinyl Acetate            | 6.309          | 43   | 1144896            | 230.20 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 301273             | 45.72  | ug/l   | 100      |
| 25) 2-Butanone               | 7.214          | 43   | 176101             | 228.87 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.214          | 77   | 271253             | 48.80  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 211072             | 47.32  | ug/l   | 100      |
| 28) Bromochloromethane       | 7.550          | 49   | 124803             | 48.16  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.567          | 42   | 113266             | 227.33 | ug/l   | 100      |
| 30) Chloroform               | 7.714          | 83   | 327012             | 46.74  | ug/l   | 100      |
| 31) Cyclohexane              | 7.985          | 56   | 266068             | 43.54  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 7.908          | 97   | 295227             | 49.05  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 263132             | 47.91  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.291          | 43   | 81958              | 45.12  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 257275             | 49.47  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.355          | 83   | 334834             | 49.37  | ug/l   | 100      |
| 40) Benzene                  | 8.356          | 78   | 763277             | 48.29  | ug/l   | 100      |

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 ALS Vial : 6 Sample Multiplier: 1

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 ClientSampleId :  
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 3/22/2021 11:36:58 AM

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 Quant Title : SW846 8260  
 QLast Update : Sat Mar 20 01:26:46 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 52145m   | 48.50  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 196951   | 47.64  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.456  | 43   | 160329   | 47.96  | ug/l   | 100      |
| 44) Trichloroethene           | 9.114  | 130  | 208607   | 48.09  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 180302   | 47.99  | ug/l   | 100      |
| 46) Dibromomethane            | 9.479  | 93   | 103732   | 49.89  | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.661  | 83   | 261954   | 49.17  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.461  | 41   | 82981    | 46.63  | ug/l   | 100      |
| 49) 1,4-Dioxane               | 9.467  | 88   | 22669    | 964.54 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 413418   | 237.01 | ug/l   | 100      |
| 52) Toluene                   | 10.402 | 92   | 492259   | 48.77  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 243276   | 49.24  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 288958   | 48.28  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 140605   | 49.31  | ug/l   | 100      |
| 56) Ethyl methacrylate        | 10.661 | 69   | 164902   | 50.34  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 240968   | 48.48  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 424129   | 256.03 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.985 | 43   | 284475   | 244.06 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.138 | 129  | 178126   | 50.35  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 138865   | 49.67  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.879 | 164  | 172401   | 50.21  | ug/l   | 100      |
| 65) Chlorobenzene             | 11.667 | 112  | 525410   | 49.33  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.744 | 131  | 187092   | 50.39  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.744 | 91   | 930909   | 49.18  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.855 | 106  | 719484   | 99.86  | ug/l   | 100      |
| 69) o-Xylene                  | 12.179 | 106  | 335357   | 50.56  | ug/l   | 100      |
| 70) Styrene                   | 12.197 | 104  | 586115   | 51.49  | ug/l   | 100      |
| 71) Bromoform                 | 12.361 | 173  | 101028   | 53.15  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.479 | 105  | 902698   | 47.44  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.285 | 43   | 154748   | 47.82  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 155464   | 47.18  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.785 | 75   | 102167m  | 44.08  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 210633   | 48.14  | ug/l   | 100      |
| 78) n-propylbenzene           | 12.820 | 91   | 1088627  | 47.85  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 582100   | 46.31  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 736639   | 47.36  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 49339    | 50.15  | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 628160   | 47.36  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.220 | 119  | 635592   | 47.90  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 777363   | 49.53  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.396 | 105  | 923413   | 48.98  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 845180   | 49.47  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 416217   | 49.32  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.591 | 146  | 408660   | 48.78  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.838 | 91   | 805782   | 49.01  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.108 | 117  | 127684   | 39.30  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 353235   | 48.77  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 23121    | 40.80  | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 229714   | 42.31  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 134235   | 44.24  | ug/l   | 100      |
| 95) Naphthalene               | 15.396 | 128  | 423054   | 42.91  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.590 | 180  | 202962   | 42.89  | ug/l   | 100      |

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

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

