

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050719\  
 Data File : VD062139.D  
 Acq On : 7 May 2019 13:04  
 Operator : FY/SY  
 Sample : VSTDICCC050  
 Misc : 5.00g/5mL/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Quant Time: May 07 13:45:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 13:42:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.02  | 168  | 873569   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.19  | 114  | 1193589  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 950440   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 542925   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.42   | 65   | 415876   | 50.00 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 100.00% |          |
| 35) Dibromofluoromethane    | 6.89   | 113  | 539812   | 50.00 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 100.00% |          |
| 50) Toluene-d8              | 10.40  | 98   | 1324810  | 50.00 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 100.00% |          |
| 62) 4-Bromofluorobenzene    | 13.55  | 95   | 534577   | 50.00 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 100.00% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85   | 422596   | 50.000  | ug/l   | 100    |
| 3) Chloromethane              | 1.74 | 50   | 288635   | 50.000  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.84 | 62   | 309549   | 50.000  | ug/l   | 100    |
| 5) Bromomethane               | 2.14 | 94   | 74148    | 50.000  | ug/l   | 97     |
| 6) Chloroethane               | 2.25 | 64   | 135857   | 50.000  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 2.51 | 101  | 586555   | 50.000  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.85 | 74   | 112961   | 50.000  | ug/l   | 85     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.13 | 101  | 454660   | 50.000  | ug/l   | 99     |
| 10) Methyl Iodide             | 3.29 | 142  | 670249   | 50.000  | ug/l   | 92     |
| 11) Tert butyl alcohol        | 4.03 | 59   | 100448   | 250.000 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 3.11 | 96   | 362269   | 50.000  | ug/l   | 100    |
| 13) Acrolein                  | 3.02 | 56   | 102799   | 250.000 | ug/l   | 95     |
| 14) Allyl chloride            | 3.60 | 41   | 505799   | 50.000  | ug/l   | 90     |
| 15) Acrylonitrile             | 4.17 | 53   | 267821   | 250.000 | ug/l   | 90     |
| 16) Acetone                   | 3.19 | 43   | 436720   | 250.000 | ug/l # | 89     |
| 17) Carbon Disulfide          | 3.36 | 76   | 992374   | 50.000  | ug/l   | 100    |
| 18) Methyl Acetate            | 3.62 | 43   | 148054   | 50.000  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 4.21 | 73   | 721558   | 50.000  | ug/l   | 94     |
| 20) Methylene Chloride        | 3.79 | 84   | 345383   | 50.000  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 4.20 | 96   | 393832   | 50.000  | ug/l   | 96     |
| 22) Diisopropyl ether         | 5.09 | 45   | 1033271  | 50.000  | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.02 | 43   | 2825947  | 250.000 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 4.96 | 63   | 606881   | 50.000  | ug/l   | 99     |
| 25) 2-Butanone                | 6.04 | 43   | 446351   | 250.000 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.00 | 77   | 601113   | 50.000  | ug/l   | 94     |
| 27) cis-1,2-Dichloroethene    | 6.01 | 96   | 406128   | 50.000  | ug/l   | 98     |
| 28) Bromochloromethane        | 6.41 | 49   | 241462   | 50.000  | ug/l   | 90     |
| 29) Tetrahydrofuran           | 6.42 | 42   | 199290   | 250.000 | ug/l   | 98     |
| 30) Chloroform                | 6.64 | 83   | 749821   | 50.000  | ug/l   | 97     |
| 31) Cyclohexane               | 6.93 | 56   | 438391   | 50.000  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 6.84 | 97   | 725737   | 50.000  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.12 | 75   | 497508   | 50.000  | ug/l   | 96     |
| 37) Ethyl Acetate             | 6.16 | 43   | 215689   | 50.000  | ug/l # | 93     |
| 38) Carbon Tetrachloride      | 7.09 | 117  | 705376   | 50.000  | ug/l   | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Tue May 07 13:42:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 8.85  | 83   | 500125   | 50.000   | ug/l   | 97       |
| 40) Benzene                    | 7.43  | 78   | 1128229  | 50.000   | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.42  | 41   | 253396   | 50.000   | ug/l # | 90       |
| 42) 1,2-Dichloroethane         | 7.55  | 62   | 481244   | 50.000   | ug/l   | 97       |
| 43) Isopropyl Acetate          | 9.22  | 43   | 300124   | 50.000   | ug/l # | 93       |
| 44) Trichloroethene            | 8.52  | 130  | 443552   | 50.000   | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 8.92  | 63   | 279293   | 50.000   | ug/l   | 98       |
| 46) Dibromomethane             | 9.04  | 93   | 229193   | 50.000   | ug/l   | 94       |
| 47) Bromodichloromethane       | 9.35  | 83   | 559570   | 50.000   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.10  | 41   | 180822   | 50.000   | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.06  | 88   | 39363    | 1000.000 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone       | 10.28 | 43   | 935021   | 250.000  | ug/l   | 95       |
| 52) Toluene                    | 10.50 | 92   | 742543   | 50.000   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.90 | 75   | 490414   | 50.000   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.02 | 75   | 550265   | 50.000   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 11.17 | 97   | 272467   | 50.000   | ug/l   | 95       |
| 56) Ethyl methacrylate         | 11.03 | 69   | 283864   | 50.000   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 11.39 | 76   | 421750   | 50.000   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.85  | 63   | 757781   | 250.000  | ug/l   | 96       |
| 59) 2-Hexanone                 | 11.52 | 43   | 702706   | 250.000  | ug/l   | 95       |
| 60) Dibromochloromethane       | 11.67 | 129  | 459909   | 50.000   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.79 | 107  | 313146   | 50.000   | ug/l   | 97       |
| 64) Tetrachloroethene          | 11.23 | 164  | 386621   | 50.000   | ug/l   | 95       |
| 65) Chlorobenzene              | 12.38 | 112  | 872296   | 50.000   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 12.50 | 131  | 412689   | 50.000   | ug/l   | 95       |
| 67) Ethyl Benzene              | 12.51 | 91   | 1568608  | 50.000   | ug/l   | 97       |
| 68) m/p-Xylenes                | 12.66 | 106  | 1180122  | 100.000  | ug/l   | 98       |
| 69) o-Xylene                   | 13.03 | 106  | 529645   | 50.000   | ug/l   | 91       |
| 70) Styrene                    | 13.06 | 104  | 865882   | 50.000   | ug/l   | 98       |
| 71) Bromoform                  | 13.22 | 173  | 286274   | 50.000   | ug/l   | 100      |
| 73) Isopropylbenzene           | 13.40 | 105  | 1619368  | 50.000   | ug/l   | 99       |
| 74) N-amyl acetate             | 13.25 | 43   | 418375   | 50.000   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.69 | 83   | 290281   | 50.000   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 13.72 | 75   | 299631   | 50.000   | ug/l   | 100      |
| 77) Bromobenzene               | 13.66 | 156  | 421635   | 50.000   | ug/l   | 94       |
| 78) n-propylbenzene            | 13.76 | 91   | 1833362  | 50.000   | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 13.83 | 91   | 1082633  | 50.000   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 13.93 | 105  | 1328386  | 50.000   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 93395    | 50.000   | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 1278145  | 50.000   | ug/l   | 90       |
| 83) tert-Butylbenzene          | 14.18 | 119  | 1540493  | 50.000   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 14.22 | 105  | 1338191  | 50.000   | ug/l   | 95       |
| 85) sec-Butylbenzene           | 14.36 | 105  | 1648947  | 50.000   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 14.48 | 119  | 1572835  | 50.000   | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 811462   | 50.000   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 769413   | 50.000   | ug/l   | 97       |
| 89) n-Butylbenzene             | 14.79 | 91   | 1273548  | 50.000   | ug/l   | 95       |
| 90) Hexachloroethane           | 15.00 | 117  | 409905   | 50.000   | ug/l   | 70       |
| 91) 1,2-Dichlorobenzene        | 14.80 | 146  | 632814   | 50.000   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 49004    | 50.000   | ug/l   | 88       |

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 MSVOA\_D  
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 Quant Title : SW846 8260  
 QLast Update : Tue May 07 13:42:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 461272   | 50.000 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 16.03 | 225  | 357435   | 50.000 | ug/l  | 99       |
| 95) Naphthalene            | 16.11 | 128  | 690456   | 50.000 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.26 | 180  | 304427   | 50.000 | ug/l  | 96       |

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

