

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050919\  
 Data File : VD062188.D  
 Acq On : 9 May 2019 15:12  
 Operator : FY/SY  
 Sample : VD0509SBS01  
 Misc : 5.00g/5mL/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0509SBS01

Quant Time: May 10 04:19:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.02  | 168  | 905513   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.20  | 114  | 1221013  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 1005484  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 541862   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.43  | 65   | 447981   | 53.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.48% |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 557305   | 55.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.02% |          |
| 50) Toluene-d8              | 10.39 | 98   | 1302512  | 53.32 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 106.64% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 542459   | 55.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.60% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85   | 150675   | 17.398  | ug/l   | 100    |
| 3) Chloromethane              | 1.75 | 50   | 114094   | 18.232  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.84 | 62   | 112396   | 18.276  | ug/l   | 100    |
| 5) Bromomethane               | 2.14 | 94   | 28563    | 19.821  | ug/l   | 97     |
| 6) Chloroethane               | 2.25 | 64   | 44788    | 17.355  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 2.51 | 101  | 214322   | 17.925  | ug/l   | 97     |
| 8) Diethyl Ether              | 2.86 | 74   | 42302    | 18.345  | ug/l   | 75     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.13 | 101  | 167234   | 18.490  | ug/l   | 94     |
| 10) Methyl Iodide             | 3.29 | 142  | 198393   | 14.513  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 4.05 | 59   | 39605    | 92.203  | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 3.11 | 96   | 128642   | 18.632  | ug/l   | 97     |
| 13) Acrolein                  | 3.02 | 56   | 40515    | 91.193  | ug/l   | 97     |
| 14) Allyl chloride            | 3.61 | 41   | 204277   | 20.349  | ug/l   | 94     |
| 15) Acrylonitrile             | 4.18 | 53   | 105558   | 93.494  | ug/l   | 84     |
| 16) Acetone                   | 3.20 | 43   | 177659   | 100.672 | ug/l # | 89     |
| 17) Carbon Disulfide          | 3.36 | 76   | 335038   | 16.869  | ug/l   | 96     |
| 18) Methyl Acetate            | 3.63 | 43   | 62817    | 19.719  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 4.21 | 73   | 272467   | 18.411  | ug/l   | 96     |
| 20) Methylene Chloride        | 3.80 | 84   | 136412   | 18.513  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 4.20 | 96   | 137225   | 17.861  | ug/l   | 95     |
| 22) Diisopropyl ether         | 5.09 | 45   | 405721   | 18.992  | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.02 | 43   | 1082250  | 96.019  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 4.95 | 63   | 238461   | 18.504  | ug/l   | 98     |
| 25) 2-Butanone                | 6.05 | 43   | 176324   | 91.602  | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.00 | 77   | 238134   | 18.550  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.02 | 96   | 155806   | 18.117  | ug/l   | 98     |
| 28) Bromochloromethane        | 6.41 | 49   | 109958   | 21.687  | ug/l   | 87     |
| 29) Tetrahydrofuran           | 6.43 | 42   | 84885    | 95.709  | ug/l   | 97     |
| 30) Chloroform                | 6.64 | 83   | 294382   | 18.954  | ug/l   | 100    |
| 31) Cyclohexane               | 6.93 | 56   | 160073   | 18.130  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.84 | 97   | 290730   | 19.804  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.13 | 75   | 203879   | 20.365  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.15 | 43   | 83077    | 19.568  | ug/l # | 93     |
| 38) Carbon Tetrachloride      | 7.09 | 117  | 274023   | 19.776  | ug/l   | 98     |

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 ClientSampleId :  
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Quant Time: May 10 04:19:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.84  | 83   | 165291   | 17.232  | ug/l   | 91       |
| 40) Benzene                    | 7.43  | 78   | 438001   | 19.375  | ug/l   | 97       |
| 41) Methacrylonitrile          | 6.42  | 41   | 103144   | 19.880  | ug/l   | 90       |
| 42) 1,2-Dichloroethane         | 7.55  | 62   | 187513   | 19.578  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 9.22  | 43   | 115754   | 19.224  | ug/l   | 89       |
| 44) Trichloroethene            | 8.52  | 130  | 170476   | 19.790  | ug/l   | 88       |
| 45) 1,2-Dichloropropane        | 8.92  | 63   | 116605   | 20.853  | ug/l   | 93       |
| 46) Dibromomethane             | 9.04  | 93   | 86799    | 19.089  | ug/l   | 93       |
| 47) Bromodichloromethane       | 9.35  | 83   | 209701   | 18.854  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.10  | 41   | 71270    | 19.216  | ug/l   | 90       |
| 49) 1,4-Dioxane                | 9.07  | 88   | 13294    | 332.215 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone       | 10.28 | 43   | 362175   | 93.574  | ug/l   | 96       |
| 52) Toluene                    | 10.48 | 92   | 276001   | 18.765  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.89 | 75   | 184133   | 19.155  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene    | 10.02 | 75   | 207959   | 19.830  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 11.16 | 97   | 97248    | 18.686  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 11.03 | 69   | 105244   | 19.461  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 11.39 | 76   | 150145   | 19.097  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.84  | 63   | 295986   | 100.197 | ug/l   | 98       |
| 59) 2-Hexanone                 | 11.52 | 43   | 287992   | 100.955 | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.67 | 129  | 171448   | 19.062  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.78 | 107  | 122121   | 19.301  | ug/l   | 99       |
| 64) Tetrachloroethene          | 11.24 | 164  | 142346   | 18.104  | ug/l   | 94       |
| 65) Chlorobenzene              | 12.38 | 112  | 375313   | 20.041  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.50 | 131  | 166141   | 20.384  | ug/l   | 98       |
| 67) Ethyl Benzene              | 12.51 | 91   | 654409   | 20.873  | ug/l   | 100      |
| 68) m/p-Xylenes                | 12.65 | 106  | 401280   | 35.179  | ug/l   | 91       |
| 69) o-Xylene                   | 13.03 | 106  | 217677   | 20.526  | ug/l   | 95       |
| 70) Styrene                    | 13.06 | 104  | 355352   | 19.781  | ug/l   | 98       |
| 71) Bromoform                  | 13.22 | 173  | 107484   | 18.955  | ug/l # | 98       |
| 73) Isopropylbenzene           | 13.39 | 105  | 640783   | 19.728  | ug/l   | 97       |
| 74) N-amyl acetate             | 13.25 | 43   | 163070   | 19.149  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.68 | 83   | 111154   | 18.077  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 13.72 | 75   | 111785   | 17.359  | ug/l   | 99       |
| 77) Bromobenzene               | 13.65 | 156  | 164590   | 18.102  | ug/l   | 86       |
| 78) n-propylbenzene            | 13.76 | 91   | 734286   | 18.951  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 13.83 | 91   | 430785   | 19.413  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 13.92 | 105  | 508421   | 18.588  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-buten | 13.46 | 75   | 32259    | 17.745  | ug/l # | 84       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 484497   | 18.554  | ug/l   | 94       |
| 83) tert-Butylbenzene          | 14.17 | 119  | 606903   | 19.741  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 14.22 | 105  | 545251   | 19.865  | ug/l   | 91       |
| 85) sec-Butylbenzene           | 14.35 | 105  | 626515   | 18.587  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 14.48 | 119  | 577462   | 19.175  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene        | 14.44 | 146  | 290457   | 17.487  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 304415   | 18.652  | ug/l   | 93       |
| 89) n-Butylbenzene             | 14.79 | 91   | 505822   | 18.713  | ug/l   | 95       |
| 90) Hexachloroethane           | 14.99 | 117  | 144184   | 17.606  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 14.79 | 146  | 262958   | 19.223  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.37 | 75   | 17411    | 17.249  | ug/l   | 76       |

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ALS Vial : 5 Sample Multiplier: 1

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MSVOA\_D  
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Quant Time: May 10 04:19:20 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 174452   | 17.521 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 16.03 | 225  | 124671   | 16.835 | ug/l  | 98       |
| 95) Naphthalene            | 16.11 | 128  | 216076   | 15.544 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.26 | 180  | 100351   | 16.030 | ug/l  | 96       |

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

