

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060519\  
 Data File : VD062621.D  
 Acq On : 6 Jun 2019 12:16  
 Operator : FY/SY  
 Sample : VD0605SBS01  
 Misc : 5.00g/5mL/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0605SBS01

Quant Time: Jun 07 03:35:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 06 05:42:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.07  | 168  | 813846   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 1065439  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 939337   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 504980   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.47  | 65   | 554574   | 49.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.42%  |          |
| 35) Dibromofluoromethane    | 6.94  | 113  | 559551   | 51.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.34% |          |
| 50) Toluene-d8              | 10.42 | 98   | 1140760  | 48.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.80%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 537813   | 48.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.80%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.58 | 85   | 213389   | 21.096  | ug/l   | 95     |
| 3) Chloromethane              | 1.75 | 50   | 161811   | 20.587  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.86 | 62   | 160978   | 20.888  | ug/l   | 98     |
| 5) Bromomethane               | 2.15 | 94   | 72022    | 18.525  | ug/l   | 93     |
| 6) Chloroethane               | 2.26 | 64   | 75165    | 19.337  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 2.54 | 101  | 352039   | 20.474  | ug/l   | 92     |
| 8) Diethyl Ether              | 2.88 | 74   | 45064    | 20.167  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.16 | 101  | 197221   | 20.402  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.31 | 142  | 258254   | 20.872  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 4.09 | 59   | 40174    | 80.419  | ug/l # | 90     |
| 12) 1,1-Dichloroethene        | 3.14 | 96   | 138194   | 19.485  | ug/l   | 94     |
| 13) Acrolein                  | 3.05 | 56   | 18544    | 104.973 | ug/l   | 92     |
| 14) Allyl chloride            | 3.63 | 41   | 217475   | 20.142  | ug/l   | 97     |
| 15) Acrylonitrile             | 4.22 | 53   | 103500   | 95.040  | ug/l   | 94     |
| 16) Acetone                   | 3.24 | 43   | 193399   | 96.462  | ug/l   | 98     |
| 17) Carbon Disulfide          | 3.38 | 76   | 398064   | 19.264  | ug/l # | 94     |
| 18) Methyl Acetate            | 3.65 | 43   | 67797    | 19.019  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 4.25 | 73   | 342045   | 19.911  | ug/l   | 99     |
| 20) Methylene Chloride        | 3.83 | 84   | 149681   | 19.182  | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene  | 4.23 | 96   | 149400   | 19.358  | ug/l   | 92     |
| 22) Diisopropyl ether         | 5.15 | 45   | 435500   | 19.094  | ug/l   | 94     |
| 23) Vinyl Acetate             | 5.08 | 43   | 1308153  | 94.103  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 5.00 | 63   | 286039   | 19.904  | ug/l   | 98     |
| 25) 2-Butanone                | 6.09 | 43   | 187604   | 98.505  | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 6.04 | 77   | 314974   | 20.062  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.05 | 96   | 155679   | 18.706  | ug/l   | 100    |
| 28) Bromochloromethane        | 6.46 | 49   | 87973    | 16.180  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 6.47 | 42   | 83136    | 94.035  | ug/l   | 95     |
| 30) Chloroform                | 6.68 | 83   | 361954   | 20.251  | ug/l   | 94     |
| 31) Cyclohexane               | 6.97 | 56   | 182157   | 19.828  | ug/l # | 85     |
| 32) 1,1,1-Trichloroethane     | 6.89 | 97   | 369062   | 20.399  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.16 | 75   | 248837   | 21.723  | ug/l   | 97     |
| 37) Ethyl Acetate             | 6.20 | 43   | 107503   | 23.256  | ug/l # | 91     |
| 38) Carbon Tetrachloride      | 7.12 | 117  | 375691m  | 21.851  | ug/l   |        |

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 Quant Title : SW846 8260  
 QLast Update : Thu Jun 06 05:42:40 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.88  | 83   | 191935   | 19.597  | ug/l   | 94       |
| 40) Benzene                    | 7.47  | 78   | 451368   | 19.950  | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.47  | 41   | 116845   | 19.519  | ug/l # | 91       |
| 42) 1,2-Dichloroethane         | 7.60  | 62   | 270303   | 20.298  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 9.26  | 43   | 123703   | 19.470  | ug/l # | 96       |
| 44) Trichloroethene            | 8.55  | 130  | 190303   | 20.742  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 8.96  | 63   | 114098   | 20.140  | ug/l # | 80       |
| 46) Dibromomethane             | 9.08  | 93   | 97651    | 19.813  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.39  | 83   | 266161   | 20.049  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.13  | 41   | 88369    | 20.451  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.09  | 88   | 14558    | 424.525 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.31 | 43   | 431197   | 104.228 | ug/l   | 99       |
| 52) Toluene                    | 10.52 | 92   | 299233   | 19.940  | ug/l   | 89       |
| 53) t-1,3-Dichloropropene      | 10.92 | 75   | 225222   | 20.432  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.06 | 75   | 234068   | 20.853  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 11.20 | 97   | 103332   | 20.071  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 11.05 | 69   | 117232   | 20.431  | ug/l   | 91       |
| 57) 1,3-Dichloropropane        | 11.42 | 76   | 165284   | 20.563  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.87  | 63   | 287676   | 97.753  | ug/l   | 97       |
| 59) 2-Hexanone                 | 11.54 | 43   | 320222   | 102.082 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.69 | 129  | 209387   | 20.814  | ug/l   | 85       |
| 61) 1,2-Dibromoethane          | 11.82 | 107  | 124982   | 19.821  | ug/l   | 97       |
| 64) Tetrachloroethene          | 11.27 | 164  | 168350   | 19.845  | ug/l   | 99       |
| 65) Chlorobenzene              | 12.41 | 112  | 376454   | 19.287  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.52 | 131  | 185958   | 19.819  | ug/l   | 99       |
| 67) Ethyl Benzene              | 12.53 | 91   | 699907   | 19.840  | ug/l   | 99       |
| 68) m/p-Xylenes                | 12.68 | 106  | 482278   | 39.192  | ug/l   | 98       |
| 69) o-Xylene                   | 13.06 | 106  | 239377   | 20.189  | ug/l   | 90       |
| 70) Styrene                    | 13.08 | 104  | 405979   | 20.382  | ug/l   | 99       |
| 71) Bromoform                  | 13.24 | 173  | 120255   | 18.557  | ug/l   | 100      |
| 73) Isopropylbenzene           | 13.41 | 105  | 760260   | 21.652  | ug/l   | 97       |
| 74) N-amyl acetate             | 13.28 | 43   | 175808   | 19.391  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.71 | 83   | 107396   | 18.246  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 13.74 | 75   | 129803   | 19.705  | ug/l   | 96       |
| 77) Bromobenzene               | 13.68 | 156  | 198657   | 20.340  | ug/l   | 79       |
| 78) n-propylbenzene            | 13.78 | 91   | 817721   | 20.081  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 13.85 | 91   | 490765   | 19.879  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 13.94 | 105  | 642860   | 21.274  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 13.48 | 75   | 35103    | 20.731  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 13.96 | 91   | 572965   | 19.722  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 725598   | 21.806  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 623058   | 20.144  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 708031   | 20.651  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 14.50 | 119  | 660199   | 20.029  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 345567   | 21.082  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 14.55 | 146  | 342565   | 20.635  | ug/l   | 96       |
| 89) n-Butylbenzene             | 14.80 | 91   | 636611   | 20.771  | ug/l   | 98       |
| 90) Hexachloroethane           | 15.02 | 117  | 182859   | 21.078  | ug/l   | 78       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 309055   | 20.419  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 23482    | 19.503  | ug/l   | 83       |

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Quant Title : SW846 8260  
QLast Update : Thu Jun 06 05:42:40 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 208428   | 19.165 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 180430   | 22.119 | ug/l  | 98       |
| 95) Naphthalene            | 16.13 | 128  | 287183   | 18.441 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 16.28 | 180  | 175662   | 21.123 | ug/l  | 96       |

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

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