

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070819\  
 Data File : VD063034.D  
 Acq On : 8 Jul 2019 14:16  
 Operator : VA/AP  
 Sample : VD0708SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0708SBS01

Quant Time: Jul 09 05:09:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 958057   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 1253905  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 1039111  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 593955   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |       |
|---------------------------|--------|-----|----------|-------|--------|-------|
| 33) 1,2-Dichloroethane-d4 | 7.45   | 65  | 471853   | 45.31 | ug/l   | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.62% |       |
| 35) Dibromofluoromethane  | 6.93   | 113 | 511521   | 48.38 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.76% |       |
| 50) Toluene-d8            | 10.41  | 98  | 1085606  | 47.18 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.36% |       |
| 62) 4-Bromofluorobenzene  | 13.55  | 95  | 500505   | 47.83 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.66% |       |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85  | 250333  | 20.192  | ug/l   | 98     |
| 3) Chloromethane              | 1.75 | 50  | 182517  | 19.575  | ug/l # | 81     |
| 4) Vinyl Chloride             | 1.85 | 62  | 181287  | 19.610  | ug/l   | 96     |
| 5) Bromomethane               | 2.15 | 94  | 81631   | 18.855  | ug/l # | 97     |
| 6) Chloroethane               | 2.26 | 64  | 81572   | 19.490  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 2.53 | 101 | 377545  | 20.180  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.87 | 74  | 50785   | 21.364  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.14 | 101 | 225652  | 22.263  | ug/l   | 94     |
| 10) Methyl Iodide             | 3.30 | 142 | 257593  | 19.264  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 4.08 | 59  | 51798   | 109.210 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 3.13 | 96  | 160109  | 21.057  | ug/l   | 95     |
| 13) Acrolein                  | 3.04 | 56  | 24118   | 49.810  | ug/l   | 84     |
| 14) Allyl chloride            | 3.61 | 41  | 249927  | 22.246  | ug/l # | 91     |
| 15) Acrylonitrile             | 4.20 | 53  | 121605  | 109.114 | ug/l   | 96     |
| 16) Acetone                   | 3.23 | 43  | 190768  | 85.735  | ug/l   | 99     |
| 17) Carbon Disulfide          | 3.37 | 76  | 451704  | 18.588  | ug/l   | 96     |
| 18) Methyl Acetate            | 3.64 | 43  | 93255   | 29.664  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 4.24 | 73  | 352155  | 21.394  | ug/l   | 99     |
| 20) Methylene Chloride        | 3.81 | 84  | 167705  | 21.116  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 4.21 | 96  | 164736  | 20.348  | ug/l   | 95     |
| 22) Diisopropyl ether         | 5.13 | 45  | 499042  | 21.842  | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.06 | 43  | 1378242 | 96.401  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 4.99 | 63  | 304678  | 20.481  | ug/l   | 97     |
| 25) 2-Butanone                | 6.07 | 43  | 198574  | 101.952 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 6.02 | 77  | 332813  | 21.107  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 6.03 | 96  | 182465  | 21.312  | ug/l   | 84     |
| 28) Bromochloromethane        | 6.44 | 49  | 124224  | 23.710  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 6.46 | 42  | 93102   | 101.028 | ug/l   | 93     |
| 30) Chloroform                | 6.66 | 83  | 381708  | 21.099  | ug/l   | 98     |
| 31) Cyclohexane               | 6.96 | 56  | 200820  | 20.535  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 6.87 | 97  | 387183  | 20.547  | ug/l   | 94     |
| 36) 1,1-Dichloropropene       | 7.14 | 75  | 251091  | 21.153  | ug/l   | 97     |
| 37) Ethyl Acetate             | 6.19 | 43  | 100654  | 19.515  | ug/l # | 93     |
| 38) Carbon Tetrachloride      | 7.11 | 117 | 364686  | 20.428  | ug/l   | 92     |

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 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.87  | 83   | 218418   | 20.904  | ug/l   | 99       |
| 40) Benzene                    | 7.45  | 78   | 516045   | 21.658  | ug/l   | 95       |
| 41) Methacrylonitrile          | 6.45  | 41   | 130355   | 20.824  | ug/l # | 91       |
| 42) 1,2-Dichloroethane         | 7.58  | 62   | 269050   | 20.699  | ug/l   | 94       |
| 43) Isopropyl Acetate          | 9.24  | 43   | 126811   | 20.378  | ug/l # | 96       |
| 44) Trichloroethene            | 8.54  | 130  | 205852   | 22.037  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 8.94  | 63   | 132409   | 22.349  | ug/l   | 99       |
| 46) Dibromomethane             | 9.06  | 93   | 109762   | 21.567  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.38  | 83   | 279205   | 21.124  | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.12  | 41   | 97266    | 21.995  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.08  | 88   | 14438    | 392.424 | ug/l # | 66       |
| 51) 4-Methyl-2-Pentanone       | 10.30 | 43   | 459380   | 104.118 | ug/l   | 97       |
| 52) Toluene                    | 10.51 | 92   | 341462   | 21.320  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.91 | 75   | 238414   | 22.038  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.04 | 75   | 251041   | 21.349  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 11.19 | 97   | 114342   | 20.780  | ug/l # | 83       |
| 56) Ethyl methacrylate         | 11.04 | 69   | 126875   | 21.575  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 11.41 | 76   | 185112   | 21.971  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.85  | 63   | 336123   | 111.336 | ug/l   | 94       |
| 59) 2-Hexanone                 | 11.53 | 43   | 321902   | 102.443 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.68 | 129  | 207485   | 20.244  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.81 | 107  | 134333   | 20.670  | ug/l   | 93       |
| 64) Tetrachloroethene          | 11.26 | 164  | 169552   | 19.826  | ug/l   | 96       |
| 65) Chlorobenzene              | 12.40 | 112  | 437660   | 22.695  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.51 | 131  | 204950   | 22.725  | ug/l   | 94       |
| 67) Ethyl Benzene              | 12.52 | 91   | 774567   | 22.371  | ug/l   | 98       |
| 68) m/p-Xylenes                | 12.67 | 106  | 543011   | 45.029  | ug/l   | 100      |
| 69) o-Xylene                   | 13.05 | 106  | 255184   | 23.148  | ug/l   | 93       |
| 70) Styrene                    | 13.07 | 104  | 455809   | 23.540  | ug/l   | 98       |
| 71) Bromoform                  | 13.24 | 173  | 128548   | 20.804  | ug/l   | 99       |
| 73) Isopropylbenzene           | 13.41 | 105  | 765036   | 20.089  | ug/l   | 96       |
| 74) N-amyl acetate             | 13.27 | 43   | 196587   | 21.256  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.70 | 83   | 128249   | 20.669  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 13.73 | 75   | 145759   | 21.258  | ug/l   | 96       |
| 77) Bromobenzene               | 13.67 | 156  | 211324   | 20.630  | ug/l   | 95       |
| 78) n-propylbenzene            | 13.77 | 91   | 874174   | 19.722  | ug/l   | 92       |
| 79) 2-Chlorotoluene            | 13.84 | 91   | 537934   | 21.236  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 13.93 | 105  | 663913   | 20.755  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 35628    | 19.826  | ug/l   | 87       |
| 82) 4-Chlorotoluene            | 13.95 | 91   | 637259   | 20.896  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 708341   | 19.866  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 14.23 | 105  | 602223   | 18.368  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 801360   | 20.679  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 751909   | 21.209  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 389150   | 21.193  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 14.54 | 146  | 363794   | 19.726  | ug/l   | 96       |
| 89) n-Butylbenzene             | 14.79 | 91   | 692011   | 20.855  | ug/l   | 98       |
| 90) Hexachloroethane           | 15.01 | 117  | 185576   | 19.468  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 14.80 | 146  | 329897   | 20.999  | ug/l   | 92       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 23510    | 19.412  | ug/l # | 56       |

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Quant Title : SW846 8260  
QLast Update : Thu Jun 20 01:50:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 243830   | 19.869 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 16.03 | 225  | 183455   | 19.568 | ug/l  | 98       |
| 95) Naphthalene            | 16.12 | 128  | 339247   | 19.723 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 188733   | 20.016 | ug/l  | 96       |

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

