

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050119\  
 Data File : VD062100.D  
 Acq On : 1 May 2019 13:59  
 Operator : FY/SY  
 Sample : VD0501SBS01  
 Misc : 5.00g/5mL/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0501SBS01

Quant Time: May 02 00:56:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 01 08:37:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.02  | 168  | 571840   | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 8.19  | 114  | 917533   | 50.00 | ug/l  | -0.04    |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 685616   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 357966   | 50.00 | ug/l  | -0.02    |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 7.42   | 65  | 229726   | 51.33 | ug/l    | -0.04 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.66% |       |
| 35) Dibromofluoromethane  | 6.90   | 113 | 342648   | 54.00 | ug/l    | -0.04 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.00% |       |
| 50) Toluene-d8            | 10.38  | 98  | 792718   | 52.50 | ug/l    | -0.04 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.00% |       |
| 62) 4-Bromofluorobenzene  | 13.54  | 95  | 304858   | 50.34 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.68% |       |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85  | 79474  | 15.564  | ug/l   | 97     |
| 3) Chloromethane              | 1.74 | 50  | 73907  | 17.030  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.84 | 62  | 67413  | 17.138  | ug/l   | 95     |
| 5) Bromomethane               | 2.13 | 94  | 19116  | 15.928  | ug/l   | 93     |
| 6) Chloroethane               | 2.24 | 64  | 24057  | 16.919  | ug/l # | 81     |
| 7) Trichlorofluoromethane     | 2.51 | 101 | 118830 | 19.980  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.85 | 74  | 28413  | 17.825  | ug/l   | 87     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.13 | 101 | 108286 | 19.765  | ug/l   | 95     |
| 10) Methyl Iodide             | 3.29 | 142 | 126842 | 18.975  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 4.03 | 59  | 28443  | 112.481 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 3.11 | 96  | 89069  | 19.109  | ug/l   | 94     |
| 13) Acrolein                  | 3.01 | 56  | 20663  | 78.755  | ug/l   | 84     |
| 14) Allyl chloride            | 3.60 | 41  | 130942 | 20.573  | ug/l   | 95     |
| 15) Acrylonitrile             | 4.16 | 53  | 83392  | 106.500 | ug/l   | 98     |
| 16) Acetone                   | 3.20 | 43  | 98462  | 92.139  | ug/l   | 98     |
| 17) Carbon Disulfide          | 3.36 | 76  | 243675 | 18.091  | ug/l   | 99     |
| 18) Methyl Acetate            | 3.61 | 43  | 43637  | 21.274  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 4.21 | 73  | 186611 | 20.178  | ug/l   | 97     |
| 20) Methylene Chloride        | 3.80 | 84  | 101169 | 17.365  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 4.19 | 96  | 107437 | 20.092  | ug/l   | 97     |
| 22) Diisopropyl ether         | 5.08 | 45  | 294903 | 19.846  | ug/l   | 95     |
| 23) Vinyl Acetate             | 5.02 | 43  | 758614 | 98.031  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 4.95 | 63  | 175528 | 19.543  | ug/l   | 99     |
| 25) 2-Butanone                | 6.03 | 43  | 121058 | 93.436  | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 5.99 | 77  | 156988 | 20.036  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 6.00 | 96  | 115230 | 18.943  | ug/l   | 99     |
| 28) Bromochloromethane        | 6.41 | 49  | 76735  | 22.329  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 6.43 | 42  | 54764  | 85.785  | ug/l   | 98     |
| 30) Chloroform                | 6.63 | 83  | 201534 | 19.756  | ug/l   | 98     |
| 31) Cyclohexane               | 6.93 | 56  | 112378 | 16.857  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.84 | 97  | 173465 | 19.543  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.12 | 75  | 142784 | 19.974  | ug/l   | 96     |
| 37) Ethyl Acetate             | 6.15 | 43  | 59504  | 19.534  | ug/l # | 92     |
| 38) Carbon Tetrachloride      | 7.09 | 117 | 176199 | 19.451  | ug/l   | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Wed May 01 08:37:17 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.84  | 83   | 127005   | 18.007  | ug/l   | 95       |
| 40) Benzene                    | 7.42  | 78   | 330826   | 18.693  | ug/l   | 97       |
| 41) Methacrylonitrile          | 6.41  | 41   | 64515    | 18.151  | ug/l # | 92       |
| 42) 1,2-Dichloroethane         | 7.55  | 62   | 120300   | 20.020  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 9.21  | 43   | 72952    | 16.390  | ug/l   | 100      |
| 44) Trichloroethene            | 8.51  | 130  | 126412   | 18.425  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.91  | 63   | 85270    | 18.992  | ug/l   | 93       |
| 46) Dibromomethane             | 9.04  | 93   | 62022    | 19.198  | ug/l   | 93       |
| 47) Bromodichloromethane       | 9.35  | 83   | 147678   | 19.346  | ug/l # | 93       |
| 48) Methyl methacrylate        | 9.09  | 41   | 47964    | 18.887  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.06  | 88   | 9973     | 364.252 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone       | 10.28 | 43   | 258089   | 94.814  | ug/l   | 97       |
| 52) Toluene                    | 10.48 | 92   | 216524   | 19.188  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.89 | 75   | 126533   | 19.748  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.01 | 75   | 149629   | 19.201  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 11.16 | 97   | 69594    | 18.371  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 11.01 | 69   | 77831    | 18.550  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 11.39 | 76   | 104929   | 17.933  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.83  | 63   | 245900   | 126.057 | ug/l   | 99       |
| 59) 2-Hexanone                 | 11.51 | 43   | 196330   | 96.149  | ug/l   | 96       |
| 60) Dibromochloromethane       | 11.66 | 129  | 120397   | 19.207  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.78 | 107  | 86503    | 19.249  | ug/l   | 93       |
| 64) Tetrachloroethene          | 11.23 | 164  | 107724   | 22.025  | ug/l   | 98       |
| 65) Chlorobenzene              | 12.38 | 112  | 274902   | 21.219  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.49 | 131  | 122821   | 22.349  | ug/l   | 96       |
| 67) Ethyl Benzene              | 12.50 | 91   | 479700   | 22.685  | ug/l   | 98       |
| 68) m/p-Xylenes                | 12.65 | 106  | 325015   | 42.526  | ug/l   | 95       |
| 69) o-Xylene                   | 13.03 | 106  | 151198   | 21.622  | ug/l   | 97       |
| 70) Styrene                    | 13.05 | 104  | 277918   | 23.017  | ug/l   | 99       |
| 71) Bromoform                  | 13.22 | 173  | 65005    | 20.748  | ug/l   | 97       |
| 73) Isopropylbenzene           | 13.39 | 105  | 412940   | 17.293  | ug/l   | 99       |
| 74) N-amyl acetate             | 13.25 | 43   | 107104   | 17.416  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.68 | 83   | 82229    | 17.573  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 13.72 | 75   | 86007    | 18.921  | ug/l   | 100      |
| 77) Bromobenzene               | 13.65 | 156  | 128619   | 18.776  | ug/l   | 91       |
| 78) n-propylbenzene            | 13.76 | 91   | 508575   | 18.605  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 13.82 | 91   | 291725   | 17.619  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 13.92 | 105  | 367049   | 19.278  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 13.46 | 75   | 21487    | 15.599  | ug/l   | 87       |
| 82) 4-Chlorotoluene            | 13.93 | 91   | 354423   | 19.437  | ug/l   | 88       |
| 83) tert-Butylbenzene          | 14.17 | 119  | 423324   | 19.192  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 14.22 | 105  | 355712   | 19.566  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 14.35 | 105  | 458577   | 19.242  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 14.48 | 119  | 420413   | 19.710  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 14.44 | 146  | 225633   | 18.809  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 14.52 | 146  | 230445   | 20.542  | ug/l   | 98       |
| 89) n-Butylbenzene             | 14.78 | 91   | 331910   | 17.333  | ug/l   | 95       |
| 90) Hexachloroethane           | 14.99 | 117  | 108516   | 18.815  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene        | 14.79 | 146  | 178133   | 18.002  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.37 | 75   | 10294    | 16.742  | ug/l   | 90       |

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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0501SBS01

Quant Time: May 02 00:56:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 01 08:37:17 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.93 | 180  | 95317    | 17.853 | ug/l  | 94       |
| 94) Hexachlorobutadiene    | 16.02 | 225  | 78369    | 19.835 | ug/l  | 100      |
| 95) Naphthalene            | 16.11 | 128  | 149104   | 17.297 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 16.26 | 180  | 57292    | 18.913 | ug/l  | 94       |

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

