

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
 Data File : VD060393.D  
 Acq On : 16 Nov 2018 12:53  
 Operator : JC/SY  
 Sample : VD1116SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1116SBS01

Quant Time: Nov 16 13:38:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.43  | 168  | 1522869  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.47  | 114  | 2078394  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.29 | 117  | 1630891  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 851948   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.81   | 65  | 552279   | 50.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.30% |      |
| 35) Dibromofluoromethane  | 6.34   | 113 | 815498   | 52.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.24% |      |
| 50) Toluene-d8            | 9.47   | 98  | 2341347  | 51.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.24% |      |
| 62) 4-Bromofluorobenzene  | 12.43  | 95  | 852195   | 51.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.70% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.60 | 85  | 297289  | 22.355  | ug/l   | 99     |
| 3) Chloromethane              | 1.77 | 50  | 313465  | 21.730  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.87 | 62  | 258231  | 21.920  | ug/l   | 100    |
| 5) Bromomethane               | 2.16 | 94  | 40147   | 14.364  | ug/l   | 98     |
| 6) Chloroethane               | 2.28 | 64  | 73239   | 18.737  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 2.53 | 101 | 295189  | 21.253  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.85 | 74  | 56883   | 22.621  | ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.11 | 101 | 200734  | 21.974  | ug/l   | 96     |
| 10) Methyl Iodide             | 3.26 | 142 | 224498  | 18.921  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.00 | 59  | 45525   | 101.673 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 3.10 | 96  | 165038  | 22.210  | ug/l   | 92     |
| 13) Acrolein                  | 3.01 | 56  | 42371   | 80.085  | ug/l   | 99     |
| 14) Allyl chloride            | 3.56 | 41  | 306539  | 21.560  | ug/l   | 99     |
| 15) Acrylonitrile             | 4.11 | 53  | 273333  | 104.682 | ug/l   | 98     |
| 16) Acetone                   | 3.17 | 43  | 192652  | 101.856 | ug/l   | 98     |
| 17) Carbon Disulfide          | 3.33 | 76  | 486136  | 20.269  | ug/l   | 99     |
| 18) Methyl Acetate            | 3.58 | 43  | 85922   | 21.305  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 4.15 | 73  | 467766  | 21.023  | ug/l   | 99     |
| 20) Methylene Chloride        | 3.75 | 84  | 413111  | 24.622  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 4.12 | 96  | 343692  | 20.832  | ug/l   | 94     |
| 22) Diisopropyl ether         | 4.88 | 45  | 1134840 | 21.365  | ug/l   | 96     |
| 23) Vinyl Acetate             | 4.83 | 43  | 2858075 | 108.135 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 4.78 | 63  | 589023  | 21.624  | ug/l   | 99     |
| 25) 2-Butanone                | 5.64 | 43  | 401263  | 102.066 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 5.61 | 77  | 460620  | 21.751  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 5.62 | 96  | 362532  | 21.092  | ug/l   | 96     |
| 28) Bromochloromethane        | 5.95 | 49  | 256952  | 21.380  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 5.98 | 42  | 215868  | 104.146 | ug/l   | 99     |
| 30) Chloroform                | 6.13 | 83  | 584099  | 21.450  | ug/l   | 99     |
| 31) Cyclohexane               | 6.39 | 56  | 534996  | 20.550  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.31 | 97  | 488861  | 21.313  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 6.54 | 75  | 447378  | 21.788  | ug/l   | 97     |
| 37) Ethyl Acetate             | 5.71 | 43  | 202382  | 21.419  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 6.52 | 117 | 420343  | 22.068  | ug/l   | 95     |

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 ClientSampleId :  
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Quant Time: Nov 16 13:38:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.06  | 83   | 514726   | 21.795  | ug/l   | 99       |
| 40) Benzene                    | 6.82  | 78   | 1157687  | 22.087  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.97  | 41   | 234796   | 21.711  | ug/l # | 95       |
| 42) 1,2-Dichloroethane         | 6.91  | 62   | 290307   | 21.161  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.37  | 43   | 244202   | 20.575  | ug/l # | 96       |
| 44) Trichloroethene            | 7.76  | 130  | 338509   | 21.305  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.12  | 63   | 284382   | 21.513  | ug/l   | 97       |
| 46) Dibromomethane             | 8.23  | 93   | 164221   | 21.211  | ug/l   | 98       |
| 47) Bromodichloromethane       | 8.51  | 83   | 390517   | 21.405  | ug/l   | 99       |
| 48) Methyl methacrylate        | 8.26  | 41   | 152264   | 21.120  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 8.25  | 88   | 27000    | 432.847 | ug/l # | 78       |
| 51) 4-Methyl-2-Pentanone       | 9.36  | 43   | 835703   | 108.182 | ug/l   | 98       |
| 52) Toluene                    | 9.57  | 92   | 747146   | 22.315  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.94  | 75   | 322118   | 20.896  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.12  | 75   | 431839   | 21.842  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.20 | 97   | 199114   | 20.518  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.05 | 69   | 185944   | 20.840  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.40 | 76   | 315817   | 21.358  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.94  | 63   | 582176   | 107.911 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.51 | 43   | 591252   | 107.386 | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.65 | 129  | 247929   | 21.017  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.77 | 107  | 202928   | 20.871  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.27 | 164  | 314720   | 21.616  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.33 | 112  | 784959   | 22.214  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.43 | 131  | 254238   | 21.989  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.44 | 91   | 1352204  | 22.369  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.58 | 106  | 1013357  | 45.445  | ug/l   | 97       |
| 69) o-Xylene                   | 11.94 | 106  | 484226   | 22.478  | ug/l   | 99       |
| 70) Styrene                    | 11.97 | 104  | 778558   | 22.363  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 158953   | 20.459  | ug/l   | 98       |
| 73) Isopropylbenzene           | 12.29 | 105  | 1353319  | 21.803  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.15 | 43   | 317952   | 19.980  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.57 | 83   | 206926   | 20.384  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.61 | 75   | 209616   | 20.568  | ug/l   | 100      |
| 77) Bromobenzene               | 12.55 | 156  | 340482   | 20.651  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.65 | 91   | 1657868  | 21.399  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.72 | 91   | 899626   | 21.201  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 1056742  | 21.907  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.36 | 75   | 60232    | 20.759  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.82 | 91   | 1051866  | 22.067  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 13.05 | 119  | 1171424  | 21.873  | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene     | 13.10 | 105  | 1046752  | 21.728  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.23 | 105  | 1401816  | 21.335  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.35 | 119  | 1187938  | 22.451  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 13.32 | 146  | 644841   | 21.983  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.40 | 146  | 639439   | 22.320  | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.66 | 91   | 1210401  | 20.898  | ug/l   | 95       |
| 90) Hexachloroethane           | 13.87 | 117  | 269399   | 21.472  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.67 | 146  | 532569   | 22.104  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 24870    | 20.296  | ug/l   | 66       |

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Sample : VD1116SBSD01  
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Instrument :  
MSVOA\_D  
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Quant Title : SW846 8260  
QLast Update : Tue Nov 06 13:56:04 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.80 | 180  | 399473   | 20.911 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.90 | 225  | 292737   | 20.487 | ug/l  | 100      |
| 95) Naphthalene            | 14.97 | 128  | 480053   | 20.580 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.12 | 180  | 308952   | 20.182 | ug/l  | 96       |

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

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