

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032219\  
 Data File : VD061255.D  
 Acq On : 22 Mar 2019 12:37  
 Operator : VA/AP  
 Sample : VD0322SBSD01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0322SBSD01

Quant Time: Mar 22 23:26:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.11  | 168  | 670702   | 50.00 | ug/l  | 0.07     |
| 34) 1,4-Difluorobenzene    | 8.27  | 114  | 1085642  | 50.00 | ug/l  | 0.06     |
| 63) Chlorobenzene-d5       | 12.41 | 117  | 876988   | 50.00 | ug/l  | 0.05     |
| 72) 1,4-Dichlorobenzene-d4 | 14.54 | 152  | 341989   | 50.00 | ug/l  | 0.03     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.51   | 65  | 229385   | 41.09 | ug/l   | 0.07 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 82.18% |      |
| 35) Dibromofluoromethane  | 6.99   | 113 | 360403   | 44.73 | ug/l   | 0.07 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.46% |      |
| 50) Toluene-d8            | 10.46  | 98  | 832017   | 41.12 | ug/l   | 0.06 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 82.24% |      |
| 62) 4-Bromofluorobenzene  | 13.59  | 95  | 339722   | 43.27 | ug/l   | 0.04 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 86.54% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.61 | 85  | 124274  | 18.705  | ug/l   | 99     |
| 3) Chloromethane              | 1.79 | 50  | 98831   | 17.857  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.88 | 62  | 93540   | 18.291  | ug/l   | 99     |
| 5) Bromomethane               | 2.19 | 94  | 17031   | 16.153  | ug/l   | 95     |
| 6) Chloroethane               | 2.30 | 64  | 29338   | 19.166  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 2.57 | 101 | 132970  | 18.100  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.92 | 74  | 57344   | 23.661  | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.20 | 101 | 159423  | 19.410  | ug/l   | 95     |
| 10) Methyl Iodide             | 3.36 | 142 | 191864  | 18.901  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 4.13 | 59  | 36979   | 104.045 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 3.18 | 96  | 129319  | 19.208  | ug/l   | 93     |
| 13) Acrolein                  | 3.08 | 56  | 27286   | 53.060  | ug/l   | 97     |
| 14) Allyl chloride            | 3.67 | 41  | 187553  | 17.411  | ug/l   | 94     |
| 15) Acrylonitrile             | 4.27 | 53  | 129873  | 103.390 | ug/l   | 99     |
| 16) Acetone                   | 3.27 | 43  | 161872  | 101.394 | ug/l   | 100    |
| 17) Carbon Disulfide          | 3.43 | 76  | 362818  | 15.976  | ug/l   | 99     |
| 18) Methyl Acetate            | 3.69 | 43  | 57211   | 18.210  | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 4.29 | 73  | 253524  | 21.487  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.87 | 84  | 179396  | 22.037  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 4.28 | 96  | 145320  | 19.942  | ug/l   | 98     |
| 22) Diisopropyl ether         | 5.19 | 45  | 423022  | 18.917  | ug/l   | 95     |
| 23) Vinyl Acetate             | 5.13 | 43  | 1161178 | 101.155 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.06 | 63  | 246197  | 20.095  | ug/l   | 99     |
| 25) 2-Butanone                | 6.14 | 43  | 206918  | 114.222 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.10 | 77  | 210869  | 22.047  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.11 | 96  | 172615  | 22.326  | ug/l   | 94     |
| 28) Bromochloromethane        | 6.50 | 49  | 82421   | 15.891  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 6.52 | 42  | 94467   | 96.036  | ug/l   | 95     |
| 30) Chloroform                | 6.74 | 83  | 260228  | 20.494  | ug/l   | 98     |
| 31) Cyclohexane               | 7.02 | 56  | 192264  | 19.462  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 6.93 | 97  | 220386  | 20.075  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.21 | 75  | 191830  | 20.499  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.24 | 43  | 91409   | 20.815  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.18 | 117 | 222616  | 21.596  | ug/l   | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.92  | 83   | 187544   | 19.327  | ug/l   | 96       |
| 40) Benzene                    | 7.52  | 78   | 455435   | 19.477  | ug/l   | 98       |
| 41) Methacrylonitrile          | 6.51  | 41   | 100642   | 19.925  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 7.64  | 62   | 144117   | 21.238  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 9.29  | 43   | 127083   | 20.894  | ug/l # | 95       |
| 44) Trichloroethene            | 8.60  | 130  | 176719   | 21.906  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.99  | 63   | 114151   | 18.581  | ug/l   | 98       |
| 46) Dibromomethane             | 9.12  | 93   | 80049    | 20.542  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.43  | 83   | 184836   | 21.019  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 70744    | 20.658  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.13  | 88   | 16115    | 465.371 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone       | 10.35 | 43   | 391313   | 105.018 | ug/l   | 95       |
| 52) Toluene                    | 10.56 | 92   | 319922   | 22.002  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.96 | 75   | 164994   | 20.519  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 204780   | 21.196  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 11.24 | 97   | 107559   | 22.212  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 11.09 | 69   | 98812    | 19.495  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 11.45 | 76   | 154242   | 21.315  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.91  | 63   | 273429   | 101.915 | ug/l   | 98       |
| 59) 2-Hexanone                 | 11.57 | 43   | 286916   | 105.265 | ug/l   | 95       |
| 60) Dibromochloromethane       | 11.73 | 129  | 153238   | 21.502  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.85 | 107  | 116600   | 20.699  | ug/l   | 95       |
| 64) Tetrachloroethene          | 11.30 | 164  | 132020   | 22.300  | ug/l   | 96       |
| 65) Chlorobenzene              | 12.44 | 112  | 385658   | 22.432  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 12.54 | 131  | 141388   | 23.071  | ug/l   | 98       |
| 67) Ethyl Benzene              | 12.55 | 91   | 559706   | 21.867  | ug/l   | 99       |
| 68) m/p-Xylenes                | 12.70 | 106  | 421246   | 41.931  | ug/l   | 94       |
| 69) o-Xylene                   | 13.08 | 106  | 202697   | 20.526  | ug/l   | 97       |
| 70) Styrene                    | 13.11 | 104  | 341314   | 21.167  | ug/l   | 97       |
| 71) Bromoform                  | 13.26 | 173  | 86895    | 21.980  | ug/l   | 93       |
| 73) Isopropylbenzene           | 13.43 | 105  | 569466   | 23.105  | ug/l   | 97       |
| 74) N-amyl acetate             | 13.29 | 43   | 149863   | 21.595  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.73 | 83   | 104473   | 21.726  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 13.76 | 75   | 116883   | 23.756  | ug/l   | 98       |
| 77) Bromobenzene               | 13.70 | 156  | 149431   | 23.751  | ug/l   | 91       |
| 78) n-propylbenzene            | 13.80 | 91   | 668465   | 23.168  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 13.86 | 91   | 351385   | 22.121  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 14.27 | 105  | 480943   | 25.704  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 13.50 | 75   | 33204    | 22.891  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.97 | 91   | 389736   | 20.754  | ug/l   | 94       |
| 83) tert-Butylbenzene          | 14.22 | 119  | 573471   | 28.006  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 14.27 | 105  | 480943   | 25.704  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 14.40 | 105  | 590804   | 23.634  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 14.51 | 119  | 462982   | 22.658  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 14.48 | 146  | 276817   | 24.640  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 14.56 | 146  | 236082   | 21.384  | ug/l   | 100      |
| 89) n-Butylbenzene             | 14.82 | 91   | 434670   | 22.152  | ug/l   | 99       |
| 90) Hexachloroethane           | 15.03 | 117  | 134366   | 23.288  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 14.84 | 146  | 231802   | 24.750  | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.41 | 75   | 14287    | 24.655  | ug/l   | 94       |

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Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :  
VD0322SBSD01

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Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.97 | 180  | 104207   | 23.985 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 16.06 | 225  | 79365    | 24.150 | ug/l  | 97       |
| 95) Naphthalene            | 16.15 | 128  | 152659   | 23.122 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 16.30 | 180  | 45139    | 21.035 | ug/l  | 98       |

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

