

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060718\  
 Data File : VD057966.D  
 Acq On : 7 Jun 2018 12:19  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jun 08 06:45:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 08:57:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 1059980  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 1400215  | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 1124316  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 545815   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.02  | 65   | 479944   | 45.29 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 90.58% |          |
| 35) Dibromofluoromethane    | 5.55  | 113  | 508897   | 46.97 | ug/l   | -0.01    |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 93.94% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1208035  | 46.90 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 93.80% |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 506633   | 45.09 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 90.18% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.35 | 85   | 635021   | 44.637  | ug/l   | 99     |
| 3) Chloromethane              | 1.49 | 50   | 316333   | 45.149  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.57 | 62   | 341347   | 50.331  | ug/l   | 98     |
| 5) Bromomethane               | 1.82 | 94   | 150871   | 56.759  | ug/l   | 97     |
| 6) Chloroethane               | 1.90 | 64   | 146485   | 54.745  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 2.10 | 101  | 464592   | 50.114  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.36 | 74   | 93318    | 54.185  | ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.58 | 101  | 279962   | 50.628  | ug/l   | 92     |
| 10) Methyl Iodide             | 2.70 | 142  | 400348   | 56.109  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 3.27 | 59   | 82047    | 289.016 | ug/l   | 96     |
| 12) 1,1-Dichloroethene        | 2.56 | 96   | 220990   | 51.983  | ug/l   | 96     |
| 13) Acrolein                  | 2.49 | 56   | 102673   | 252.541 | ug/l   | 98     |
| 14) Allyl chloride            | 2.93 | 41   | 494035   | 50.377  | ug/l   | 99     |
| 15) Acrylonitrile             | 3.37 | 53   | 377930   | 227.564 | ug/l   | 97     |
| 16) Acetone                   | 2.62 | 43   | 416705   | 272.933 | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.77 | 76   | 809499   | 52.563  | ug/l   | 98     |
| 18) Methyl Acetate            | 2.95 | 43   | 131905   | 44.661  | ug/l # | 91     |
| 19) Methyl tert-butyl Ether   | 3.41 | 73   | 884294   | 47.273  | ug/l   | 99     |
| 20) Methylene Chloride        | 3.08 | 84   | 214459   | 51.772  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 3.39 | 96   | 446950   | 47.202  | ug/l   | 99     |
| 22) Diisopropyl ether         | 4.07 | 45   | 1786666  | 45.987  | ug/l # | 87     |
| 23) Vinyl Acetate             | 4.03 | 43   | 4785554  | 238.399 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.98 | 63   | 982897   | 46.032  | ug/l   | 99     |
| 25) 2-Butanone                | 4.84 | 43   | 765709   | 220.680 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 4.81 | 77   | 841601   | 47.847  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 4.81 | 96   | 507253   | 45.168  | ug/l   | 98     |
| 28) Bromochloromethane        | 5.14 | 49   | 471604   | 51.031  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 5.18 | 42   | 404113   | 222.177 | ug/l   | 98     |
| 30) Chloroform                | 5.32 | 83   | 1021698  | 47.544  | ug/l   | 99     |
| 31) Cyclohexane               | 5.60 | 56   | 790825   | 42.917  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97   | 887402   | 49.319  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 5.75 | 75   | 722073   | 46.807  | ug/l   | 96     |
| 37) Ethyl Acetate             | 4.93 | 43   | 406827   | 48.331  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 5.73 | 117  | 767730   | 50.497  | ug/l   | 95     |

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 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Quant Time: Jun 08 06:45:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 08:57:33 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.28  | 83   | 675606   | 44.179  | ug/l   | 99       |
| 40) Benzene                    | 6.01  | 78   | 1673806  | 46.446  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.13  | 41   | 198463   | 51.564  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.13  | 62   | 708708   | 48.639  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 7.62  | 43   | 528642   | 47.947  | ug/l   | 99       |
| 44) Trichloroethene            | 6.99  | 130  | 526103   | 49.979  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 7.35  | 63   | 477178   | 47.641  | ug/l   | 98       |
| 46) Dibromomethane             | 7.46  | 93   | 308994   | 48.023  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.74  | 83   | 751654   | 49.893  | ug/l   | 96       |
| 48) Methyl methacrylate        | 7.50  | 41   | 322267   | 47.489  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.50  | 88   | 50026    | 889.852 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 1692010  | 239.256 | ug/l   | 98       |
| 52) Toluene                    | 8.80  | 92   | 970952   | 46.946  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.18  | 75   | 649992   | 50.078  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.35  | 75   | 753288   | 49.262  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 9.45  | 97   | 323437   | 48.320  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.31  | 69   | 391674   | 47.702  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.66  | 76   | 561624   | 47.838  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.19  | 63   | 1004231  | 242.080 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.78  | 43   | 1261058  | 243.325 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.96  | 129  | 484754   | 51.356  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.09 | 107  | 379384   | 49.285  | ug/l   | 92       |
| 64) Tetrachloroethene          | 9.51  | 164  | 482837   | 48.037  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.72 | 112  | 1106030  | 48.593  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.84 | 131  | 423620   | 48.442  | ug/l   | 96       |
| 67) Ethyl Benzene              | 10.85 | 91   | 1880737  | 45.737  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.01 | 106  | 1246218  | 92.965  | ug/l   | 94       |
| 69) o-Xylene                   | 11.40 | 106  | 606531   | 45.583  | ug/l   | 97       |
| 70) Styrene                    | 11.43 | 104  | 952083   | 43.222  | ug/l   | 96       |
| 71) Bromoform                  | 11.59 | 173  | 339718   | 51.641  | ug/l # | 95       |
| 73) Isopropylbenzene           | 11.77 | 105  | 1792235  | 49.575  | ug/l   | 100      |
| 74) N-amyl acetate             | 11.64 | 43   | 685871   | 49.166  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.08 | 83   | 375948   | 47.696  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.10 | 75   | 404281   | 49.309  | ug/l   | 96       |
| 77) Bromobenzene               | 12.04 | 156  | 523609   | 48.930  | ug/l   | 88       |
| 78) n-propylbenzene            | 12.15 | 91   | 2243734  | 47.695  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 1282689  | 47.795  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.31 | 105  | 1313065  | 46.573  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 106273   | 52.332  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 1333219  | 51.154  | ug/l   | 95       |
| 83) tert-Butylbenzene          | 12.57 | 119  | 1561734  | 49.057  | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene     | 12.62 | 105  | 1425425  | 47.022  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 12.75 | 105  | 1857259  | 48.341  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.88 | 119  | 1471323  | 47.514  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.84 | 146  | 870381   | 48.082  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 816529   | 46.296  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.19 | 91   | 1433157  | 51.510  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.39 | 117  | 414105   | 52.395  | ug/l   | 75       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 674547   | 46.111  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 67196    | 55.238  | ug/l   | 80       |

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Quant Title : SW846 8260  
QLast Update : Thu Jun 07 08:57:33 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.34 | 180  | 706434   | 51.689 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.43 | 225  | 555403   | 51.665 | ug/l  | 96       |
| 95) Naphthalene            | 14.51 | 128  | 879102   | 49.888 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 574901   | 49.359 | ug/l  | 99       |

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

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