

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092619\  
 Data File : VD063839.D  
 Acq On : 26 Sep 2019 15:57  
 Operator : VA/SY  
 Sample : VD0926SBS01  
 Misc : 5.00g/5.00mL/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0926SBS01

Quant Time: Sep 27 18:26:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092519S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 27 18:19:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 8.00  | 168  | 226799   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.88  | 114  | 350052   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.66 | 117  | 342528   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.59 | 152  | 181133   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.36   | 65  | 101491   | 47.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.04%  |      |
| 35) Dibromofluoromethane  | 7.94   | 113 | 102103   | 45.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.90%  |      |
| 50) Toluene-d8            | 10.36  | 98  | 424417   | 50.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.48% |      |
| 62) 4-Bromofluorobenzene  | 12.65  | 95  | 140925   | 46.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.90%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 31746  | 20.409  | ug/l   | 97     |
| 3) Chloromethane              | 2.22 | 50  | 100186 | 21.255  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.36 | 62  | 106249 | 22.087  | ug/l   | 97     |
| 5) Bromomethane               | 2.77 | 94  | 60391  | 21.457  | ug/l   | 90     |
| 6) Chloroethane               | 2.93 | 64  | 67382  | 20.339  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.29 | 101 | 141074 | 21.813  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.73 | 74  | 19776  | 18.752  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 39050  | 20.354  | ug/l   | 96     |
| 10) Methyl Iodide             | 4.31 | 142 | 48758  | 21.286  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.28 | 59  | 14198  | 85.213  | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 4.09 | 96  | 37903  | 19.571  | ug/l   | 90     |
| 13) Acrolein                  | 3.94 | 56  | 19074  | 94.149  | ug/l   | 99     |
| 14) Allyl chloride            | 4.74 | 41  | 61243  | 20.006  | ug/l   | 97     |
| 15) Acrylonitrile             | 5.46 | 53  | 47653  | 102.285 | ug/l # | 88     |
| 16) Acetone                   | 4.19 | 43  | 50025  | 104.356 | ug/l # | 88     |
| 17) Carbon Disulfide          | 4.42 | 76  | 134470 | 20.540  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.75 | 43  | 23998  | 20.333  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.51 | 73  | 94503  | 19.490  | ug/l # | 86     |
| 20) Methylene Chloride        | 4.99 | 84  | 53274  | 18.471  | ug/l # | 93     |
| 21) trans-1,2-Dichloroethene  | 5.49 | 96  | 45481  | 20.175  | ug/l # | 94     |
| 22) Diisopropyl ether         | 6.40 | 45  | 127605 | 20.182  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.34 | 43  | 386978 | 103.480 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.30 | 63  | 78713  | 20.492  | ug/l   | 98     |
| 25) 2-Butanone                | 7.24 | 43  | 65037  | 103.778 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.23 | 77  | 73388  | 20.429  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.24 | 96  | 49770  | 19.676  | ug/l   | 91     |
| 28) Bromochloromethane        | 7.58 | 49  | 27926  | 18.527  | ug/l # | 92     |
| 29) Tetrahydrofuran           | 7.60 | 42  | 39762  | 105.889 | ug/l   | 99     |
| 30) Chloroform                | 7.73 | 83  | 82762  | 19.837  | ug/l   | 96     |
| 31) Cyclohexane               | 8.00 | 56  | 75984  | 19.817  | ug/l # | 85     |
| 32) 1,1,1-Trichloroethane     | 7.93 | 97  | 75329  | 19.968  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 8.14 | 75  | 67813  | 21.238  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.33 | 43  | 27046  | 20.281  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.12 | 117 | 65689  | 19.766  | ug/l   | 93     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.37  | 83   | 82186    | 20.672  | ug/l   | 91       |
| 40) Benzene                    | 8.37  | 78   | 183041   | 20.815  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.56  | 41   | 15498    | 19.678  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.45  | 62   | 50721    | 19.725  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.47  | 43   | 57068    | 21.347  | ug/l   | 99       |
| 44) Trichloroethene            | 9.13  | 130  | 53474    | 20.998  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.41  | 63   | 47308    | 21.779  | ug/l   | 98       |
| 46) Dibromomethane             | 9.49  | 93   | 25328    | 20.659  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.68  | 83   | 64993    | 20.564  | ug/l # | 92       |
| 48) Methyl methacrylate        | 9.48  | 41   | 26403    | 21.715  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.49  | 88   | 6664     | 389.625 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.25 | 43   | 144205   | 107.074 | ug/l   | 100      |
| 52) Toluene                    | 10.42 | 92   | 123770   | 20.758  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.64 | 75   | 65427    | 20.885  | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene    | 10.11 | 75   | 74725    | 21.013  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 35119    | 20.272  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.68 | 69   | 46102    | 20.938  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.96 | 76   | 60037    | 20.396  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.96  | 63   | 98689    | 100.280 | ug/l   | 100      |
| 59) 2-Hexanone                 | 11.00 | 43   | 102279   | 106.437 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.16 | 129  | 46864    | 20.498  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.26 | 107  | 36478    | 21.063  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.89 | 164  | 45423    | 19.687  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.68 | 112  | 142632   | 20.701  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.76 | 131  | 48681    | 19.225  | ug/l   | 95       |
| 67) Ethyl Benzene              | 11.76 | 91   | 249750   | 20.067  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.87 | 106  | 197028   | 41.225  | ug/l   | 99       |
| 69) o-Xylene                   | 12.19 | 106  | 89563    | 19.854  | ug/l   | 95       |
| 70) Styrene                    | 12.21 | 104  | 157268   | 20.599  | ug/l   | 99       |
| 71) Bromoform                  | 12.38 | 173  | 27642    | 19.651  | ug/l # | 95       |
| 73) Isopropylbenzene           | 12.49 | 105  | 255459   | 20.648  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.30 | 43   | 55672    | 20.556  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 42348    | 20.535  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.80 | 75   | 35369m   | 25.752  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 60121    | 20.220  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 308228   | 21.176  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 12.92 | 91   | 159766   | 20.350  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 208134   | 20.180  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 12574    | 18.284  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.02 | 91   | 171727   | 20.505  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.24 | 119  | 179805   | 19.952  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 211634   | 20.212  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 258953   | 20.651  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 239387   | 20.327  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 118941   | 20.374  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.61 | 146  | 115378   | 19.872  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.86 | 91   | 235241   | 20.988  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.13 | 117  | 44227    | 20.275  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.91 | 146  | 101888   | 20.347  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.53 | 75   | 6993     | 20.098  | ug/l   | 91       |

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Quant Title : SW846 8260  
QLast Update : Fri Sep 27 18:19:54 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.18 | 180  | 77365    | 20.344 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 44665    | 20.730 | ug/l  | 98       |
| 95) Naphthalene            | 15.42 | 128  | 136971   | 20.058 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 66510    | 19.727 | ug/l  | 94       |

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

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