

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\  
 Data File : VD060980.D  
 Acq On : 8 Mar 2019 13:30  
 Operator : VA/AP  
 Sample : VD0308SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0308SBS01

Quant Time: Mar 08 23:04:12 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      | 7.04  | 168  | 696426   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1227414  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 1061192  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 447476   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.44   | 65  | 317140   | 54.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.42% |      |
| 35) Dibromofluoromethane  | 6.92   | 113 | 491120   | 53.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.84% |      |
| 50) Toluene-d8            | 10.39  | 98  | 1216202  | 53.17 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.34% |      |
| 62) 4-Bromofluorobenzene  | 13.54  | 95  | 474906   | 53.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.02% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.58 | 85  | 154981  | 22.466  | ug/l   | 98     |
| 3) Chloromethane              | 1.76 | 50  | 133075  | 23.157  | ug/l   | 95     |
| 4) Vinyl Chloride             | 1.86 | 62  | 119474  | 22.499  | ug/l   | 93     |
| 5) Bromomethane               | 2.15 | 94  | 19274   | 17.770  | ug/l   | 84     |
| 6) Chloroethane               | 2.26 | 64  | 29287   | 18.426  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 2.53 | 101 | 154274  | 20.224  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.87 | 74  | 51345   | 20.403  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.15 | 101 | 186407  | 21.857  | ug/l   | 96     |
| 10) Methyl Iodide             | 3.31 | 142 | 213125  | 20.015  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 4.06 | 59  | 37999   | 102.966 | ug/l   | 96     |
| 12) 1,1-Dichloroethene        | 3.13 | 96  | 156465  | 22.382  | ug/l   | 95     |
| 13) Acrolein                  | 3.04 | 56  | 52445   | 98.216  | ug/l   | 93     |
| 14) Allyl chloride            | 3.62 | 41  | 239683  | 21.429  | ug/l   | 99     |
| 15) Acrylonitrile             | 4.19 | 53  | 141315  | 108.344 | ug/l   | 96     |
| 16) Acetone                   | 3.23 | 43  | 157363  | 94.929  | ug/l   | 98     |
| 17) Carbon Disulfide          | 3.38 | 76  | 531028  | 22.519  | ug/l   | 100    |
| 18) Methyl Acetate            | 3.64 | 43  | 63979   | 19.612  | ug/l # | 91     |
| 19) Methyl tert-butyl Ether   | 4.23 | 73  | 267301  | 21.818  | ug/l   | 99     |
| 20) Methylene Chloride        | 3.82 | 84  | 184259  | 21.742  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 4.22 | 96  | 164011  | 21.676  | ug/l   | 95     |
| 22) Diisopropyl ether         | 5.12 | 45  | 506672  | 21.821  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.05 | 43  | 1260303 | 105.735 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 4.98 | 63  | 274922  | 21.610  | ug/l   | 99     |
| 25) 2-Butanone                | 6.06 | 43  | 210939  | 112.141 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.01 | 77  | 222045  | 22.358  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.02 | 96  | 182371  | 22.717  | ug/l   | 96     |
| 28) Bromochloromethane        | 6.43 | 49  | 107824  | 20.020  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 6.45 | 42  | 114917  | 112.510 | ug/l   | 99     |
| 30) Chloroform                | 6.65 | 83  | 287113  | 21.776  | ug/l   | 100    |
| 31) Cyclohexane               | 6.95 | 56  | 228141  | 22.240  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 6.86 | 97  | 249457  | 21.884  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.14 | 75  | 220767  | 20.866  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.17 | 43  | 102350  | 20.615  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 7.11 | 117 | 244939  | 21.017  | ug/l   | 99     |

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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) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.85  | 83   | 220691   | 20.116  | ug/l   | 100      |
| 40) Benzene                    | 7.45  | 78   | 548870   | 20.761  | ug/l   | 98       |
| 41) Methacrylonitrile          | 6.44  | 41   | 117446   | 20.566  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 7.57  | 62   | 160315   | 20.896  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 9.23  | 43   | 137980   | 20.065  | ug/l # | 94       |
| 44) Trichloroethene            | 8.53  | 130  | 191909   | 21.041  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 8.93  | 63   | 139942   | 20.148  | ug/l   | 98       |
| 46) Dibromomethane             | 9.06  | 93   | 84326    | 19.140  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.37  | 83   | 202930   | 20.411  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.10  | 41   | 77636    | 20.052  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.07  | 88   | 15927    | 406.817 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.29 | 43   | 436345   | 103.577 | ug/l   | 99       |
| 52) Toluene                    | 10.49 | 92   | 351217   | 21.364  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.90 | 75   | 182897   | 20.119  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.03 | 75   | 221236   | 20.254  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 11.18 | 97   | 115001   | 21.006  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 11.03 | 69   | 129600   | 22.616  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 11.40 | 76   | 175341   | 21.432  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.84  | 63   | 285738   | 94.201  | ug/l   | 97       |
| 59) 2-Hexanone                 | 11.52 | 43   | 335850   | 108.985 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.67 | 129  | 170297   | 21.136  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.79 | 107  | 132712   | 20.838  | ug/l   | 99       |
| 64) Tetrachloroethene          | 11.24 | 164  | 145746   | 20.346  | ug/l   | 99       |
| 65) Chlorobenzene              | 12.39 | 112  | 440052   | 21.152  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.50 | 131  | 151197   | 20.389  | ug/l   | 97       |
| 67) Ethyl Benzene              | 12.51 | 91   | 624663   | 20.169  | ug/l   | 97       |
| 68) m/p-Xylenes                | 12.66 | 106  | 528475   | 43.474  | ug/l   | 98       |
| 69) o-Xylene                   | 13.04 | 106  | 252222   | 21.108  | ug/l   | 97       |
| 70) Styrene                    | 13.06 | 104  | 387233   | 19.846  | ug/l   | 99       |
| 71) Bromoform                  | 13.23 | 173  | 92739    | 19.386  | ug/l   | 98       |
| 73) Isopropylbenzene           | 13.40 | 105  | 623630   | 19.338  | ug/l   | 98       |
| 74) N-amyl acetate             | 13.26 | 43   | 185468   | 20.425  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.69 | 83   | 123443   | 19.619  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 13.72 | 75   | 133489   | 20.735  | ug/l   | 100      |
| 77) Bromobenzene               | 13.66 | 156  | 162271   | 19.712  | ug/l   | 96       |
| 78) n-propylbenzene            | 13.77 | 91   | 741976   | 19.653  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 13.83 | 91   | 457770   | 22.024  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 14.23 | 105  | 493263   | 20.148  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 43805    | 23.080  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 512584   | 20.861  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 14.18 | 119  | 569177   | 21.244  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 14.23 | 105  | 493263   | 20.148  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 14.36 | 105  | 673126   | 20.579  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 14.48 | 119  | 577937   | 21.616  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 317389   | 21.592  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 298103   | 20.637  | ug/l   | 99       |
| 89) n-Butylbenzene             | 14.79 | 91   | 556221   | 21.664  | ug/l   | 97       |
| 90) Hexachloroethane           | 15.00 | 117  | 155972   | 20.660  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene        | 14.80 | 146  | 276917   | 22.597  | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 15277    | 20.149  | ug/l   | 92       |

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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 | 15.94 | 180  | 116881   | 20.560 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 90350    | 21.012 | ug/l  | 97       |
| 95) Naphthalene            | 16.11 | 128  | 186305   | 21.566 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 16.26 | 180  | 54470    | 19.400 | ug/l  | 97       |

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

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