

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062719\  
 Data File : VD062950.D  
 Acq On : 28 Jun 2019 2:28  
 Operator : VA/AP  
 Sample : VD0627SBS03  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0627SBS03

Quant Time: Jun 28 05:23:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.01  | 168  | 712603   | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 8.19  | 114  | 1013704  | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 905774   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 494096   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.42  | 65   | 409095     | 52.81   | ug/l  | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery = | 105.62% |       |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 421570     | 49.32   | ug/l  | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery = | 98.64%  |       |          |
| 50) Toluene-d8              | 10.38 | 98   | 892059     | 47.95   | ug/l  | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery = | 95.90%  |       |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 404501     | 47.82   | ug/l  | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery = | 95.64%  |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.56 | 85   | 181253   | 19.656  | ug/l   | 95     |
| 3) Chloromethane              | 1.74 | 50   | 137646   | 19.848  | ug/l   | 96     |
| 4) Vinyl Chloride             | 1.84 | 62   | 131743   | 19.160  | ug/l   | 99     |
| 5) Bromomethane               | 2.13 | 94   | 48481    | 15.056  | ug/l # | 93     |
| 6) Chloroethane               | 2.24 | 64   | 57509    | 18.474  | ug/l   | 91     |
| 7) Trichlorofluoromethane     | 2.51 | 101  | 279440   | 20.081  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.85 | 74   | 41644    | 23.553  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.12 | 101  | 139129   | 18.455  | ug/l   | 91     |
| 10) Methyl Iodide             | 3.28 | 142  | 187344   | 18.836  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 4.06 | 59   | 41677    | 118.138 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 3.10 | 96   | 113694   | 20.103  | ug/l   | 92     |
| 13) Acrolein                  | 3.01 | 56   | 22939    | 63.693  | ug/l   | 97     |
| 14) Allyl chloride            | 3.59 | 41   | 171076   | 20.472  | ug/l   | 93     |
| 15) Acrylonitrile             | 4.17 | 53   | 107936   | 130.209 | ug/l   | 95     |
| 16) Acetone                   | 3.21 | 43   | 177984   | 109.373 | ug/l   | 99     |
| 17) Carbon Disulfide          | 3.34 | 76   | 334515   | 18.507  | ug/l   | 96     |
| 18) Methyl Acetate            | 3.62 | 43   | 89507    | 38.279  | ug/l # | 91     |
| 19) Methyl tert-butyl Ether   | 4.21 | 73   | 300038   | 24.507  | ug/l   | 97     |
| 20) Methylene Chloride        | 3.79 | 84   | 135709   | 22.973  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 4.18 | 96   | 129921   | 21.575  | ug/l   | 97     |
| 22) Diisopropyl ether         | 5.09 | 45   | 382989   | 22.536  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.02 | 43   | 1123732  | 105.673 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 4.95 | 63   | 246932   | 22.317  | ug/l   | 96     |
| 25) 2-Butanone                | 6.04 | 43   | 190950   | 131.806 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 5.98 | 77   | 205787   | 17.547  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.00 | 96   | 143488   | 22.533  | ug/l   | 98     |
| 28) Bromochloromethane        | 6.41 | 49   | 102541   | 26.313  | ug/l   | 91     |
| 29) Tetrahydrofuran           | 6.44 | 42   | 88847    | 129.620 | ug/l   | 97     |
| 30) Chloroform                | 6.63 | 83   | 314499   | 23.372  | ug/l   | 97     |
| 31) Cyclohexane               | 6.93 | 56   | 143139   | 19.678  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 6.84 | 97   | 290561   | 20.731  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 7.11 | 75   | 190651   | 19.867  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.15 | 43   | 96630    | 23.385  | ug/l # | 97     |
| 38) Carbon Tetrachloride      | 7.08 | 117  | 264501   | 18.327  | ug/l   | 100    |

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Instrument :  
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 ClientSampleId :  
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Quant Time: Jun 28 05:23:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.84  | 83   | 150775   | 17.850  | ug/l   | 94       |
| 40) Benzene                    | 7.43  | 78   | 404731   | 21.011  | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.44  | 41   | 121474   | 24.004  | ug/l # | 85       |
| 42) 1,2-Dichloroethane         | 7.55  | 62   | 244946   | 23.310  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 9.22  | 43   | 117788   | 23.413  | ug/l # | 98       |
| 44) Trichloroethene            | 8.51  | 130  | 154852   | 20.506  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 8.92  | 63   | 95061    | 19.847  | ug/l   | 91       |
| 46) Dibromomethane             | 9.03  | 93   | 92855    | 22.568  | ug/l   | 93       |
| 47) Bromodichloromethane       | 9.35  | 83   | 241756   | 22.625  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.09  | 41   | 78167    | 21.864  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 9.06  | 88   | 13246    | 445.335 | ug/l # | 58       |
| 51) 4-Methyl-2-Pentanone       | 10.28 | 43   | 422169   | 118.357 | ug/l   | 97       |
| 52) Toluene                    | 10.48 | 92   | 252541   | 19.504  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 10.89 | 75   | 203168   | 23.230  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.02 | 75   | 194812   | 20.493  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 11.16 | 97   | 98207    | 22.076  | ug/l   | 92       |
| 56) Ethyl methacrylate         | 11.02 | 69   | 102712   | 21.605  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 11.39 | 76   | 154789   | 22.725  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.83  | 63   | 303367   | 124.297 | ug/l   | 96       |
| 59) 2-Hexanone                 | 11.52 | 43   | 316770   | 124.697 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.66 | 129  | 194078   | 23.422  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.79 | 107  | 119823   | 22.806  | ug/l   | 95       |
| 64) Tetrachloroethene          | 11.23 | 164  | 179304   | 24.052  | ug/l   | 96       |
| 65) Chlorobenzene              | 12.38 | 112  | 335160   | 19.938  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.50 | 131  | 155958   | 19.838  | ug/l   | 89       |
| 67) Ethyl Benzene              | 12.51 | 91   | 572164   | 18.958  | ug/l   | 100      |
| 68) m/p-Xylenes                | 12.65 | 106  | 449473   | 42.759  | ug/l   | 95       |
| 69) o-Xylene                   | 13.03 | 106  | 192348   | 20.017  | ug/l   | 100      |
| 70) Styrene                    | 13.06 | 104  | 335177   | 19.858  | ug/l   | 92       |
| 71) Bromoform                  | 13.22 | 173  | 111310   | 20.666  | ug/l # | 97       |
| 73) Isopropylbenzene           | 13.39 | 105  | 567299   | 17.907  | ug/l   | 94       |
| 74) N-amyl acetate             | 13.25 | 43   | 166279   | 21.613  | ug/l # | 92       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.69 | 83   | 113778   | 22.042  | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane     | 13.72 | 75   | 129919   | 22.777  | ug/l   | 95       |
| 77) Bromobenzene               | 13.65 | 156  | 179221   | 21.033  | ug/l   | 81       |
| 78) n-propylbenzene            | 13.76 | 91   | 714514   | 19.378  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 13.83 | 91   | 431781   | 20.490  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene     | 13.92 | 105  | 548088   | 20.597  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-buten | 13.46 | 75   | 29203    | 19.535  | ug/l # | 93       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 517324   | 20.392  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 14.17 | 119  | 575745   | 19.411  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 14.22 | 105  | 528375   | 19.372  | ug/l   | 95       |
| 85) sec-Butylbenzene           | 14.35 | 105  | 603112   | 18.708  | ug/l   | 91       |
| 86) p-Isopropyltoluene         | 14.48 | 119  | 581056   | 19.702  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 14.44 | 146  | 308744   | 20.213  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 308361   | 20.099  | ug/l   | 95       |
| 89) n-Butylbenzene             | 14.78 | 91   | 539169   | 19.532  | ug/l   | 98       |
| 90) Hexachloroethane           | 15.00 | 117  | 153831   | 19.399  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 14.79 | 146  | 289981   | 22.189  | ug/l   | 93       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.36 | 75   | 23514    | 23.339  | ug/l   | 95       |

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 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 188836   | 18.497 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 16.02 | 225  | 136065   | 17.446 | ug/l  | 94       |
| 95) Naphthalene            | 16.11 | 128  | 313732   | 21.926 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.26 | 180  | 162179   | 20.676 | ug/l  | 100      |

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

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