

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080219\  
 Data File : VD063333.D  
 Acq On : 3 Aug 2019 00:33  
 Operator : VA/AP  
 Sample : VD0802SBS02  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0802SBS02

Quant Time: Aug 04 03:42:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 904705   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1330445  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 1102778  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 613715   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 523955   | 52.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.38% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 569483   | 50.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.26% |          |
| 50) Toluene-d8              | 10.40 | 98   | 1207382  | 47.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.98%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 509266   | 43.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.92%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85   | 217530   | 19.670  | ug/l   | 93     |
| 3) Chloromethane              | 1.74 | 50   | 181627   | 21.139  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.84 | 62   | 167476   | 18.829  | ug/l   | 96     |
| 5) Bromomethane               | 2.14 | 94   | 80048    | 17.844  | ug/l   | 93     |
| 6) Chloroethane               | 2.25 | 64   | 67493    | 16.435  | ug/l # | 72     |
| 7) Trichlorofluoromethane     | 2.52 | 101  | 342218   | 19.832  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.87 | 74   | 57203    | 23.687  | ug/l   | 79     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.14 | 101  | 197909   | 20.705  | ug/l   | 97     |
| 10) Methyl Iodide             | 3.28 | 142  | 251089   | 18.184  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 4.07 | 59   | 51044    | 115.867 | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 3.11 | 96   | 148153   | 21.113  | ug/l   | 80     |
| 13) Acrolein                  | 3.02 | 56   | 36694    | 86.547  | ug/l   | 99     |
| 14) Allyl chloride            | 3.61 | 41   | 230810   | 20.647  | ug/l   | 89     |
| 15) Acrylonitrile             | 4.19 | 53   | 139390   | 122.043 | ug/l   | 99     |
| 16) Acetone                   | 3.22 | 43   | 205996   | 105.320 | ug/l   | 97     |
| 17) Carbon Disulfide          | 3.36 | 76   | 436031   | 18.564  | ug/l # | 93     |
| 18) Methyl Acetate            | 3.63 | 43   | 97285    | 25.895  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 4.23 | 73   | 355783   | 22.446  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.81 | 84   | 189192   | 23.930  | ug/l # | 94     |
| 21) trans-1,2-Dichloroethene  | 4.20 | 96   | 168305   | 21.376  | ug/l   | 94     |
| 22) Diisopropyl ether         | 5.11 | 45   | 492974   | 22.073  | ug/l   | 97     |
| 23) Vinyl Acetate             | 5.05 | 43   | 1545781  | 112.595 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 4.98 | 63   | 316362   | 22.176  | ug/l   | 95     |
| 25) 2-Butanone                | 6.06 | 43   | 230863   | 117.612 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 6.01 | 77   | 271689   | 18.480  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.03 | 96   | 186286   | 22.067  | ug/l   | 83     |
| 28) Bromochloromethane        | 6.43 | 49   | 139386   | 24.523  | ug/l # | 88     |
| 29) Tetrahydrofuran           | 6.45 | 42   | 114655   | 123.372 | ug/l   | 98     |
| 30) Chloroform                | 6.65 | 83   | 406502   | 22.961  | ug/l   | 98     |
| 31) Cyclohexane               | 6.95 | 56   | 159602   | 17.849  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 6.86 | 97   | 356524   | 20.820  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.13 | 75   | 231957   | 19.104  | ug/l   | 96     |
| 37) Ethyl Acetate             | 6.18 | 43   | 118200   | 21.668  | ug/l # | 84     |
| 38) Carbon Tetrachloride      | 7.09 | 117  | 335944   | 18.378  | ug/l   | 92     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.86  | 83   | 189527   | 18.735  | ug/l   | 96       |
| 40) Benzene                    | 7.45  | 78   | 515064   | 20.240  | ug/l   | 92       |
| 41) Methacrylonitrile          | 6.43  | 41   | 145531   | 22.303  | ug/l # | 80       |
| 42) 1,2-Dichloroethane         | 7.58  | 62   | 285844   | 21.195  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 9.23  | 43   | 158603   | 22.761  | ug/l # | 94       |
| 44) Trichloroethene            | 8.53  | 130  | 203763   | 19.761  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 8.93  | 63   | 132607   | 20.502  | ug/l   | 100      |
| 46) Dibromomethane             | 9.05  | 93   | 117888   | 21.920  | ug/l   | 87       |
| 47) Bromodichloromethane       | 9.37  | 83   | 297457   | 21.697  | ug/l   | 93       |
| 48) Methyl methacrylate        | 9.11  | 41   | 90766    | 20.084  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.08  | 88   | 19423    | 505.318 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone       | 10.29 | 43   | 526952   | 111.198 | ug/l   | 99       |
| 52) Toluene                    | 10.50 | 92   | 358856   | 21.203  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.90 | 75   | 245906   | 20.805  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene    | 10.03 | 75   | 256180   | 20.623  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 11.18 | 97   | 131222   | 22.956  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 11.04 | 69   | 142823   | 22.818  | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 11.40 | 76   | 179759   | 19.959  | ug/l   | 90       |
| 58) 2-Chloroethyl Vinyl ether  | 9.85  | 63   | 393918   | 120.945 | ug/l   | 100      |
| 59) 2-Hexanone                 | 11.52 | 43   | 358677   | 105.029 | ug/l   | 96       |
| 60) Dibromochloromethane       | 11.68 | 129  | 231412   | 21.445  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.80 | 107  | 162252   | 23.003  | ug/l   | 96       |
| 64) Tetrachloroethene          | 11.25 | 164  | 182207   | 20.740  | ug/l   | 92       |
| 65) Chlorobenzene              | 12.39 | 112  | 437392   | 20.621  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.51 | 131  | 202459   | 21.669  | ug/l   | 92       |
| 67) Ethyl Benzene              | 12.52 | 91   | 770198   | 21.375  | ug/l   | 98       |
| 68) m/p-Xylenes                | 12.67 | 106  | 533513   | 40.373  | ug/l   | 94       |
| 69) o-Xylene                   | 13.04 | 106  | 252039   | 20.770  | ug/l   | 91       |
| 70) Styrene                    | 13.07 | 104  | 454224   | 21.107  | ug/l   | 98       |
| 71) Bromoform                  | 13.23 | 173  | 153930   | 22.654  | ug/l # | 99       |
| 73) Isopropylbenzene           | 13.39 | 105  | 741958   | 19.262  | ug/l   | 100      |
| 74) N-amyl acetate             | 13.26 | 43   | 206182   | 20.248  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.69 | 83   | 147070   | 22.478  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 13.73 | 75   | 155606   | 21.109  | ug/l   | 97       |
| 77) Bromobenzene               | 13.66 | 156  | 227414   | 20.725  | ug/l   | 96       |
| 78) n-propylbenzene            | 13.77 | 91   | 896559   | 19.559  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 13.84 | 91   | 525160   | 19.773  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 13.93 | 105  | 692679   | 20.850  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 13.46 | 75   | 37949    | 18.540  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.95 | 91   | 670229   | 21.442  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 14.18 | 119  | 716906   | 18.899  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 14.23 | 105  | 668055   | 19.441  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 14.36 | 105  | 772455   | 19.328  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 738827   | 19.369  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 402586   | 20.718  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 14.54 | 146  | 399360   | 20.324  | ug/l   | 95       |
| 89) n-Butylbenzene             | 14.79 | 91   | 644715   | 19.569  | ug/l   | 96       |
| 90) Hexachloroethane           | 15.00 | 117  | 185970   | 18.713  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 14.80 | 146  | 337026   | 19.906  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.37 | 75   | 26527    | 19.904  | ug/l   | 92       |

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ALS Vial : 32 Sample Multiplier: 1

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VD0802SBS02

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Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.93 | 180  | 237661   | 17.695 | µg/l  | 95       |
| 94) Hexachlorobutadiene    | 16.03 | 225  | 183216   | 18.824 | µg/l  | 97       |
| 95) Naphthalene            | 16.12 | 128  | 388680   | 20.474 | µg/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 211853   | 19.966 | µg/l  | 97       |

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

