

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072718\  
 Data File : VD059619.D  
 Acq On : 27 Jul 2018 18:52  
 Operator : VA/AP  
 Sample : VD0727SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0727SBS01

Quant Time: Jul 28 01:26:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072418S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 25 07:10:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.61  | 168  | 126271   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.66  | 114  | 158036   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 128088   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 67803    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.99  | 65   | 84279    | 53.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.18% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 75982    | 56.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.10% |          |
| 50) Toluene-d8              | 8.68  | 98   | 158015   | 51.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.76% |          |
| 62) 4-Bromofluorobenzene    | 11.92 | 95   | 75046    | 54.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.36% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.30 | 85   | 40145    | 26.017  | ug/l   | 99     |
| 3) Chloromethane              | 1.44 | 50   | 16222    | 20.555  | ug/l # | 84     |
| 4) Vinyl Chloride             | 1.52 | 62   | 16615    | 20.231  | ug/l   | 98     |
| 5) Bromomethane               | 1.75 | 94   | 3985     | 25.291  | ug/l   | 90     |
| 6) Chloroethane               | 1.84 | 64   | 4796     | 19.962  | ug/l   | 90     |
| 7) Trichlorofluoromethane     | 2.03 | 101  | 32712    | 23.347  | ug/l   | 95     |
| 8) Diethyl Ether              | 2.31 | 74   | 5496     | 22.428  | ug/l   | 77     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.50 | 101  | 16603    | 22.489  | ug/l   | 87     |
| 10) Methyl Iodide             | 2.65 | 142  | 19084    | 21.013  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 3.24 | 59   | 8069     | 127.413 | ug/l # | 80     |
| 12) 1,1-Dichloroethene        | 2.49 | 96   | 11285    | 21.088  | ug/l   | 90     |
| 13) Acrolein                  | 2.44 | 56   | 3779     | 115.826 | ug/l   | 85     |
| 14) Allyl chloride            | 2.88 | 41   | 27138    | 20.915  | ug/l   | 88     |
| 15) Acrylonitrile             | 3.31 | 53   | 15547    | 113.194 | ug/l   | 98     |
| 16) Acetone                   | 2.58 | 43   | 26952    | 112.425 | ug/l   | 97     |
| 17) Carbon Disulfide          | 2.71 | 76   | 42969    | 20.216  | ug/l # | 94     |
| 18) Methyl Acetate            | 2.90 | 43   | 10367    | 21.625  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 3.36 | 73   | 40253    | 22.442  | ug/l   | 95     |
| 20) Methylene Chloride        | 3.03 | 84   | 16614    | 24.305  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 3.34 | 96   | 13644    | 23.645  | ug/l   | 97     |
| 22) Diisopropyl ether         | 4.03 | 45   | 71040    | 20.821  | ug/l   | 94     |
| 23) Vinyl Acetate             | 3.97 | 43   | 241690   | 111.612 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.92 | 63   | 46846    | 21.749  | ug/l   | 99     |
| 25) 2-Butanone                | 4.81 | 43   | 38119    | 104.269 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 4.76 | 77   | 46890    | 21.257  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 4.77 | 96   | 25524    | 22.145  | ug/l   | 88     |
| 28) Bromochloromethane        | 5.10 | 49   | 19156    | 22.477  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 5.15 | 42   | 17491    | 103.329 | ug/l   | 99     |
| 30) Chloroform                | 5.28 | 83   | 59107    | 22.944  | ug/l   | 94     |
| 31) Cyclohexane               | 5.55 | 56   | 31906    | 19.709  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97   | 54945    | 22.030  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 5.70 | 75   | 37942    | 23.926  | ug/l   | 95     |
| 37) Ethyl Acetate             | 4.88 | 43   | 19055    | 23.359  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 5.68 | 117  | 52482    | 24.168  | ug/l   | 96     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Jul 25 07:10:33 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.26  | 83   | 33138    | 22.724  | ug/l  | 97       |
| 40) Benzene                    | 5.98  | 78   | 76737    | 23.597  | ug/l  | 97       |
| 41) Methacrylonitrile          | 5.09  | 41   | 9604     | 23.592  | ug/l  | 96       |
| 42) 1,2-Dichloroethane         | 6.09  | 62   | 44760    | 22.844  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 7.59  | 43   | 25983    | 22.970  | ug/l  | 98       |
| 44) Trichloroethene            | 6.95  | 130  | 27120    | 22.992  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 7.32  | 63   | 18902    | 20.755  | ug/l  | 98       |
| 46) Dibromomethane             | 7.43  | 93   | 17834    | 23.168  | ug/l  | 93       |
| 47) Bromodichloromethane       | 7.72  | 83   | 43782    | 23.813  | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.48  | 41   | 16822    | 22.424  | ug/l  | 95       |
| 49) 1,4-Dioxane                | 7.46  | 88   | 3224     | 471.430 | ug/l  | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.57  | 43   | 88445    | 117.087 | ug/l  | 98       |
| 52) Toluene                    | 8.78  | 92   | 48219    | 22.361  | ug/l  | 92       |
| 53) t-1,3-Dichloropropene      | 9.16  | 75   | 37099    | 22.372  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.34  | 75   | 37083    | 22.519  | ug/l  | 95       |
| 55) 1,1,2-Trichloroethane      | 9.43  | 97   | 18862    | 23.282  | ug/l  | 94       |
| 56) Ethyl methacrylate         | 9.29  | 69   | 21668    | 23.574  | ug/l  | 96       |
| 57) 1,3-Dichloropropane        | 9.65  | 76   | 28321    | 22.001  | ug/l  | 94       |
| 58) 2-Chloroethyl Vinyl ether  | 8.16  | 63   | 45691    | 105.794 | ug/l  | 97       |
| 59) 2-Hexanone                 | 9.76  | 43   | 63002    | 105.005 | ug/l  | 98       |
| 60) Dibromochloromethane       | 9.94  | 129  | 30385    | 22.592  | ug/l  | 95       |
| 61) 1,2-Dibromoethane          | 10.07 | 107  | 22058    | 22.976  | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.49  | 164  | 27193    | 23.427  | ug/l  | 96       |
| 65) Chlorobenzene              | 10.71 | 112  | 61371    | 23.373  | ug/l  | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.84 | 131  | 27513    | 24.089  | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.85 | 91   | 109411   | 24.240  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.99 | 106  | 70041    | 46.463  | ug/l  | 96       |
| 69) o-Xylene                   | 11.40 | 106  | 33745    | 23.070  | ug/l  | 96       |
| 70) Styrene                    | 11.42 | 104  | 56913    | 23.466  | ug/l  | 99       |
| 71) Bromoform                  | 11.58 | 173  | 20501    | 22.043  | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.76 | 105  | 106861   | 22.309  | ug/l  | 99       |
| 74) N-amyl acetate             | 11.63 | 43   | 35584    | 21.682  | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.07 | 83   | 22110    | 22.609  | ug/l  | 91       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 24406    | 21.767  | ug/l  | 96       |
| 77) Bromobenzene               | 12.03 | 156  | 31135    | 22.205  | ug/l  | 98       |
| 78) n-propylbenzene            | 12.14 | 91   | 122938   | 21.124  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.20 | 91   | 80478    | 23.194  | ug/l  | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.31 | 105  | 82889    | 21.918  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.83 | 75   | 5685     | 19.831  | ug/l  | 87       |
| 82) 4-Chlorotoluene            | 12.31 | 91   | 87760    | 22.365  | ug/l  | 87       |
| 83) tert-Butylbenzene          | 12.57 | 119  | 91705    | 21.540  | ug/l  | 97       |
| 84) 1,2,4-Trimethylbenzene     | 12.62 | 105  | 84374    | 20.988  | ug/l  | 97       |
| 85) sec-Butylbenzene           | 12.74 | 105  | 105986   | 21.785  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.87 | 119  | 88393    | 21.558  | ug/l  | 96       |
| 87) 1,3-Dichlorobenzene        | 12.83 | 146  | 53173    | 22.422  | ug/l  | 95       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 49462    | 21.649  | ug/l  | 96       |
| 89) n-Butylbenzene             | 13.19 | 91   | 92355    | 23.330  | ug/l  | 99       |
| 90) Hexachloroethane           | 13.39 | 117  | 22775    | 20.787  | ug/l  | 85       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 45703    | 22.968  | ug/l  | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 4570     | 23.180  | ug/l  | 91       |

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ALS Vial : 5 Sample Multiplier: 1

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ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072418S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 25 07:10:33 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.33 | 180  | 36992    | 22.450 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.43 | 225  | 29077    | 22.371 | ug/l  | 100      |
| 95) Naphthalene            | 14.51 | 128  | 52125    | 22.243 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 32373    | 21.712 | ug/l  | 99       |

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

