

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082418\  
 Data File : VD059906.D  
 Acq On : 24 Aug 2018 14:54  
 Operator : JC/SY  
 Sample : J4559-11MSD  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081718-WSW-20-053MSD

Quant Time: Aug 24 22:43:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 03:03:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.39  | 168  | 65520    | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 7.42  | 114  | 104298   | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 88542    | 50.00 | ug/l  | -0.03    |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 36730    | 50.00 | ug/l  | -0.02    |

|                             |        |     |          |        |         |       |
|-----------------------------|--------|-----|----------|--------|---------|-------|
| System Monitoring Compounds |        |     |          |        |         |       |
| 33) 1,2-Dichloroethane-d4   | 6.76   | 65  | 55301    | 100.14 | ug/l    | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 200.28% |       |
| 35) Dibromofluoromethane    | 6.30   | 113 | 50117    | 61.29  | ug/l    | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 122.58% |       |
| 50) Toluene-d8              | 9.44   | 98  | 119049   | 52.46  | ug/l    | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 104.92% |       |
| 62) 4-Bromofluorobenzene    | 12.42  | 95  | 47789    | 51.85  | ug/l    | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 103.70% |       |

| Target Compounds              |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85  | 29435  | 50.26   | ug/l   | 93     |
| 3) Chloromethane              | 1.73 | 50  | 34631  | 65.27   | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.84 | 62  | 22327  | 53.67   | ug/l   | 95     |
| 5) Bromomethane               | 2.15 | 94  | 15586  | 216.99  | ug/l # | 80     |
| 6) Chloroethane               | 2.24 | 64  | 12953  | Below   | Cal    | 91     |
| 7) Trichlorofluoromethane     | 2.50 | 101 | 30765  | 63.92   | ug/l   | 94     |
| 8) Diethyl Ether              | 2.80 | 74  | 11529  | 106.77  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.07 | 101 | 15034  | 51.01   | ug/l # | 85     |
| 10) Methyl Iodide             | 3.22 | 142 | 15285  | 48.77   | ug/l # | 84     |
| 11) Tert butyl alcohol        | 3.94 | 59  | 51043  | 1211.37 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 3.06 | 96  | 14581  | 63.55   | ug/l   | 95     |
| 13) Acrolein                  | 2.96 | 56  | 13279  | 726.59  | ug/l   | 99     |
| 14) Allyl chloride            | 3.51 | 41  | 42195  | 81.28   | ug/l   | 97     |
| 15) Acrylonitrile             | 4.05 | 53  | 166518 | 1055.30 | ug/l   | 99     |
| 16) Acetone                   | 3.14 | 43  | 135767 | 1349.43 | ug/l   | 98     |
| 17) Carbon Disulfide          | 3.30 | 76  | 37677  | 52.90   | ug/l   | 100    |
| 18) Methyl Acetate            | 3.53 | 43  | 101967 | 485.49  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 4.09 | 73  | 139241 | 107.27  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.70 | 84  | 57218  | 88.04   | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 4.07 | 96  | 34987  | 55.34   | ug/l   | 90     |
| 22) Diisopropyl ether         | 4.83 | 45  | 218978 | 82.71   | ug/l   | 95     |
| 23) Vinyl Acetate             | 4.78 | 43  | 531800 | 359.34  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 4.73 | 63  | 77355  | 67.63   | ug/l   | 98     |
| 25) 2-Butanone                | 5.60 | 43  | 357482 | 1199.70 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 5.57 | 77  | 55448  | 57.99   | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 5.57 | 96  | 47366  | 68.43   | ug/l   | 93     |
| 28) Bromochloromethane        | 5.90 | 49  | 49036  | 89.46   | ug/l   | 99     |
| 29) Tetrahydrofuran           | 5.93 | 42  | 158615 | 1118.11 | ug/l   | 99     |
| 30) Chloroform                | 6.08 | 83  | 81839  | 70.41   | ug/l   | 97     |
| 31) Cyclohexane               | 6.35 | 56  | 29768  | 28.31   | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 6.28 | 97  | 54479  | 55.22   | ug/l   | 91     |
| 36) 1,1-Dichloropropene       | 6.50 | 75  | 41328  | 43.71   | ug/l   | 96     |
| 37) Ethyl Acetate             | 5.67 | 43  | 97573  | 132.62  | ug/l # | 94     |
| 38) Carbon Tetrachloride      | 6.48 | 117 | 38988  | 40.86   | ug/l   | 96     |

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 ClientSampleId :  
 RA-081718-WSW-20-053MSD

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 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 03:03:08 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.02  | 83   | 14567    | 14.26   | µg/l   | 93       |
| 40) Benzene                    | 6.77  | 78   | 138000   | 56.13   | µg/l   | 95       |
| 41) Methacrylonitrile          | 5.92  | 41   | 144858   | 390.87  | µg/l # | 80       |
| 42) 1,2-Dichloroethane         | 6.88  | 62   | 65420    | 82.89   | µg/l   | 98       |
| 43) Isopropyl Acetate          | 8.34  | 43   | 102472   | 107.06  | µg/l # | 97       |
| 44) Trichloroethene            | 7.72  | 130  | 33634    | 46.47   | µg/l   | 100      |
| 45) 1,2-Dichloropropane        | 8.08  | 63   | 41743    | 60.75   | µg/l   | 99       |
| 46) Dibromomethane             | 8.20  | 93   | 39001    | 88.27   | µg/l   | 98       |
| 47) Bromodichloromethane       | 8.47  | 83   | 66251    | 66.23   | µg/l   | 98       |
| 48) Methyl methacrylate        | 8.23  | 41   | 77757    | 139.36  | µg/l   | 94       |
| 49) 1,4-Dioxane                | 8.21  | 88   | 22210    | 4458.63 | µg/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 9.32  | 43   | 671902   | 941.60  | µg/l   | 94       |
| 52) Toluene                    | 9.54  | 92   | 80800    | 51.26   | µg/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.90  | 75   | 71503    | 77.29   | µg/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.08  | 75   | 70663    | 65.88   | µg/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.17 | 97   | 51792    | 89.88   | µg/l   | 98       |
| 56) Ethyl methacrylate         | 10.02 | 69   | 64255    | 96.62   | µg/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.36 | 76   | 74728    | 89.60   | µg/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.91  | 63   | 179124   | 561.47  | µg/l   | 100      |
| 59) 2-Hexanone                 | 10.47 | 43   | 509333   | 967.72  | µg/l   | 96       |
| 60) Dibromochloromethane       | 10.63 | 129  | 54165    | 74.78   | µg/l   | 95       |
| 61) 1,2-Dibromoethane          | 10.75 | 107  | 55020    | 94.43   | µg/l   | 96       |
| 64) Tetrachloroethene          | 10.23 | 164  | 26401    | 38.56   | µg/l   | 98       |
| 65) Chlorobenzene              | 11.30 | 112  | 89465    | 50.85   | µg/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.41 | 131  | 36828    | 57.29   | µg/l   | 96       |
| 67) Ethyl Benzene              | 11.42 | 91   | 127452   | 43.06   | µg/l   | 95       |
| 68) m/p-Xylenes                | 11.55 | 106  | 94020    | 87.24   | µg/l   | 90       |
| 69) o-Xylene                   | 11.93 | 106  | 48767    | 46.26   | µg/l   | 90       |
| 70) Styrene                    | 11.95 | 104  | 90395    | 49.53   | µg/l   | 95       |
| 71) Bromoform                  | 12.10 | 173  | 47621    | 85.62   | µg/l   | 97       |
| 73) Isopropylbenzene           | 12.26 | 105  | 87932    | 37.50   | µg/l   | 100      |
| 74) N-amyl acetate             | 12.12 | 43   | 82841    | 80.69   | µg/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.55 | 83   | 82974    | 153.00  | µg/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.59 | 75   | 90003    | 157.66  | µg/l   | 99       |
| 77) Bromobenzene               | 12.53 | 156  | 43815    | 67.40   | µg/l   | 94       |
| 78) n-propylbenzene            | 12.63 | 91   | 103406   | 34.83   | µg/l   | 98       |
| 79) 2-Chlorotoluene            | 12.69 | 91   | 79560    | 47.38   | µg/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.78 | 105  | 71229    | 38.21   | µg/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.33 | 75   | 24269    | 136.67  | µg/l   | 95       |
| 82) 4-Chlorotoluene            | 12.80 | 91   | 96990    | 50.64   | µg/l   | 98       |
| 83) tert-Butylbenzene          | 13.04 | 119  | 70568    | 33.23   | µg/l   | 92       |
| 84) 1,2,4-Trimethylbenzene     | 13.09 | 105  | 81162    | 41.77   | µg/l   | 99       |
| 85) sec-Butylbenzene           | 13.22 | 105  | 53787    | 21.54   | µg/l   | 97       |
| 86) p-Isopropyltoluene         | 13.33 | 119  | 46104    | 22.70   | µg/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.30 | 146  | 53130    | 45.78   | µg/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.38 | 146  | 59635    | 51.50   | µg/l   | 97       |
| 89) n-Butylbenzene             | 13.64 | 91   | 39795    | 17.88   | µg/l   | 94       |
| 90) Hexachloroethane           | 13.85 | 117  | 9967     | 18.28   | µg/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 57528    | 58.30   | µg/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.22 | 75   | 14346    | 172.05  | µg/l   | 91       |

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Sample : J4559-11MSD  
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ALS Vial : 8 Sample Multiplier: 1

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MSVOA\_D  
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RA-081718-WSW-20-053MSD

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Quant Title : SW846 8260  
QLast Update : Thu Aug 23 03:03:08 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.78 | 180  | 21700    | 25.68 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.87 | 225  | 4433     | 8.00  | ug/l  | 98       |
| 95) Naphthalene            | 14.96 | 128  | 100495   | 77.83 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.11 | 180  | 21753    | 30.10 | ug/l  | 95       |

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

