

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW111218\  
 Data File : VW006813.D  
 Acq On : 12 Nov 2018 18:14  
 Operator : SY/AP  
 Sample : VW1112SBS01  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1112SBS01

Manual Integrations  
 APPROVED

Quant Time: Nov 13 13:34:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 14:58:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 304142   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 401746   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 390134   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 221888   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 114464   | 51.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.96% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 119814   | 50.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.16% |      |
| 50) Toluene-d8            | 10.33  | 98  | 495998   | 50.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.04% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 183102   | 50.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.28% |      |

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## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 59604  | 23.738  | ug/l | 98     |
| 3) Chloromethane              | 2.21 | 50  | 65331  | 23.080  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.36 | 62  | 68151  | 22.429  | ug/l | 98     |
| 5) Bromomethane               | 2.78 | 94  | 45068  | 22.046  | ug/l | 94     |
| 6) Chloroethane               | 2.92 | 64  | 41601  | 21.217  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 88109  | 21.967  | ug/l | 98     |
| 8) Diethyl Ether              | 3.69 | 74  | 26063  | 22.144  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 59491  | 21.874  | ug/l | 99     |
| 10) Methyl Iodide             | 4.28 | 142 | 68447  | 17.957  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.20 | 59  | 15735m | 107.813 | ug/l |        |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 49936  | 21.737  | ug/l | 96     |
| 13) Acrolein                  | 3.90 | 56  | 17660  | 115.696 | ug/l | 96     |
| 14) Allyl chloride            | 4.68 | 41  | 63177  | 20.909  | ug/l | 98     |
| 15) Acrylonitrile             | 5.38 | 53  | 49687  | 111.473 | ug/l | 99     |
| 16) Acetone                   | 4.14 | 43  | 35245  | 110.380 | ug/l | 96     |
| 17) Carbon Disulfide          | 4.39 | 76  | 154824 | 21.310  | ug/l | 99     |
| 18) Methyl Acetate            | 4.68 | 43  | 24233  | 22.187  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 124160 | 22.765  | ug/l | 97     |
| 20) Methylene Chloride        | 4.92 | 84  | 65805  | 19.463  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 57687  | 21.292  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.32 | 45  | 139753 | 22.270  | ug/l | 99     |
| 23) Vinyl Acetate             | 6.26 | 43  | 407656 | 115.235 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 88663  | 21.304  | ug/l | 98     |
| 25) 2-Butanone                | 7.18 | 43  | 62563  | 115.857 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 89683  | 21.417  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 62819  | 21.748  | ug/l | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 31277  | 21.485  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 39155  | 113.303 | ug/l | 98     |
| 30) Chloroform                | 7.68 | 83  | 96234  | 21.178  | ug/l | 98     |
| 31) Cyclohexane               | 7.96 | 56  | 97081  | 22.788  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 96357  | 21.968  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 86054  | 22.889  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 30234  | 24.593  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 90243  | 22.085  | ug/l | 98     |

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Manual Integrations  
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 14:58:58 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 105148   | 21.557  | ug/l   | 99       |
| 40) Benzene                    | 8.33  | 78   | 226618   | 21.677  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 17518    | 23.208  | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 8.41  | 62   | 62622    | 22.358  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 54877    | 22.952  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 72348    | 21.933  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 54023    | 22.172  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 29330    | 21.626  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.65  | 83   | 74475    | 22.139  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 24932    | 21.269  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 8674     | 423.314 | ug/l # | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 135739   | 113.223 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 157990   | 21.317  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 72253    | 21.817  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 87290    | 22.228  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 46119    | 22.916  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 47928    | 21.730  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 70479    | 22.113  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 126332   | 114.362 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 94833    | 114.681 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 53371    | 21.672  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 43023    | 22.509  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 66245    | 21.189  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 182545   | 21.091  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 59364    | 21.138  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 311282   | 21.097  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 255693   | 42.354  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 117435   | 20.901  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 187114   | 20.807  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 32595    | 21.266  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 323270   | 20.989  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.28 | 43   | 51251    | 22.007  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 47158    | 22.133  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 36428m   | 22.781  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 83291    | 21.450  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.81 | 91   | 389379   | 21.420  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 213881   | 20.971  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 282720   | 21.353  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 13254    | 20.502  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 231527   | 21.277  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 247169   | 21.119  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 288816   | 21.434  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 353394   | 21.308  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 323370   | 21.436  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 170843   | 21.587  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 167803   | 21.431  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 297237   | 21.560  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 49453    | 20.487  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 148481   | 21.544  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7381     | 21.638  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 113496   | 21.811 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 70688    | 21.439 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 168194   | 21.612 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 96443    | 21.597 | ug/l  | 100      |

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

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