

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV102218\  
 Data File : VW006244.D  
 Acq On : 22 Oct 2018 11:49  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

sam  
 10/24/2018 5:32:58 PM

Quant Time: Oct 22 14:17:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 18 17:01:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 314969   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 436221   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 386045   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 215405   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 117219   | 44.89 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.78% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 128286   | 49.77 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.54% |      |
| 50) Toluene-d8            | 10.33  | 98  | 483018   | 49.25 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.50% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 183196   | 49.74 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.48% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 85627   | 54.937  | ug/l | 99     |
| 3) Chloromethane              | 2.21 | 50  | 89464   | 44.591  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.37 | 62  | 143427  | 50.058  | ug/l | 98     |
| 5) Bromomethane               | 2.79 | 94  | 112148  | 43.034  | ug/l | 99     |
| 6) Chloroethane               | 2.93 | 64  | 93514   | 45.543  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 133258  | 49.925  | ug/l | 97     |
| 8) Diethyl Ether              | 3.68 | 74  | 62532   | 44.081  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 149966  | 53.612  | ug/l | 99     |
| 10) Methyl Iodide             | 4.26 | 142 | 247349  | 53.127  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.23 | 59  | 37991   | 216.326 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 139089  | 52.852  | ug/l | 94     |
| 13) Acrolein                  | 3.90 | 56  | 38838   | 228.546 | ug/l | 99     |
| 14) Allyl chloride            | 4.67 | 41  | 190029  | 50.501  | ug/l | 98     |
| 15) Acrylonitrile             | 5.38 | 53  | 116241  | 228.460 | ug/l | 100    |
| 16) Acetone                   | 4.15 | 43  | 139560  | 287.076 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.37 | 76  | 404300  | 50.903  | ug/l | 100    |
| 18) Methyl Acetate            | 4.68 | 43  | 57553   | 43.796  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 193023  | 48.156  | ug/l | 98     |
| 20) Methylene Chloride        | 4.92 | 84  | 138787  | 50.238  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 153984  | 52.421  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 362683  | 48.774  | ug/l | 99     |
| 23) Vinyl Acetate             | 6.26 | 43  | 1016962 | 231.740 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 246519  | 51.378  | ug/l | 100    |
| 25) 2-Butanone                | 7.18 | 43  | 161439  | 228.852 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 182036  | 53.791  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 168185  | 51.884  | ug/l | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 88360   | 47.701  | ug/l | 91     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 93038   | 214.565 | ug/l | 97     |
| 30) Chloroform                | 7.68 | 83  | 268039  | 51.274  | ug/l | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 231159  | 48.377  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 250770  | 53.179  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 217989  | 54.216  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 66899   | 44.783  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 244158  | 55.393  | ug/l | 99     |

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 ALS Vial : 2 Sample Multiplier: 1

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 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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sam  
 10/24/2018 5:32:58 PM

Quant Time: Oct 22 14:17:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 18 17:01:24 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 289417   | 54.151  | ug/l   | 99       |
| 40) Benzene                    | 8.33  | 78   | 581133   | 52.690  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 44487    | 49.400  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 164584   | 50.792  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 136901   | 44.821  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 184636   | 54.566  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 134742   | 51.054  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 74965    | 49.837  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.65  | 83   | 188924   | 51.804  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 66442    | 45.891  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 22571    | 974.695 | ug/l # | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 338928   | 221.468 | ug/l   | 98       |
| 52) Toluene                    | 10.39 | 92   | 390934   | 52.870  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 188495   | 51.877  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 218739   | 52.453  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 104862   | 49.816  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 123643   | 47.913  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 173353   | 49.748  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 217121   | 220.191 | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.98 | 43   | 253223   | 231.797 | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.13 | 129  | 133602   | 50.955  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 105414   | 50.119  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 164623   | 54.931  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.66 | 112  | 448087   | 54.221  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 161512   | 54.994  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 790267   | 55.179  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 620585   | 109.629 | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 295991   | 54.865  | ug/l   | 98       |
| 70) Styrene                    | 12.19 | 104  | 473644   | 53.990  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 83727    | 51.112  | ug/l   | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 841099   | 55.271  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.28 | 43   | 137579   | 46.547  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 115937   | 50.091  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 78397m   | 47.650  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 201533   | 54.069  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.81 | 91   | 973593   | 54.991  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 544780   | 54.766  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 703237   | 54.817  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 35404    | 51.438  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 561507   | 53.886  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 635563   | 55.372  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 712113   | 54.855  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 899694   | 55.484  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 820663   | 55.954  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 404139   | 54.481  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 396608   | 53.698  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 745464   | 55.576  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 138224   | 55.638  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 351352   | 53.100  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 19511    | 47.083  | ug/l   | 95       |

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Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

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10/24/2018 5:32:58 PM

Quant Time: Oct 22 14:17:16 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 18 17:01:24 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 274245   | 53.866 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 182818   | 57.161 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 427930   | 50.527 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 233474   | 53.018 | ug/l  | 99       |

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

