

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071218\  
 Data File : VW003895.D  
 Acq On : 12 Jul 2018 14:04  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

apatel  
 7/13/2018 9:31:16 AM

Quant Time: Jul 12 14:50:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 05:07:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 235189   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 364435   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 333574   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 174063   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 129964   | 42.26 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 84.52% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 118374   | 46.41 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.82% |      |
| 50) Toluene-d8            | 10.33  | 98  | 465895   | 47.75 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.50% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 163952   | 46.44 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.88% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 48301   | 42.228  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50  | 91471   | 42.124  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.36 | 62  | 129108  | 45.078  | ug/l   | 100    |
| 5) Bromomethane               | 2.78 | 94  | 81068   | 40.098  | ug/l   | 99     |
| 6) Chloroethane               | 2.92 | 64  | 78828   | 45.893  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 65495   | 56.607  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.68 | 74  | 56471   | 47.624  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 119566  | 53.138  | ug/l   | 100    |
| 10) Methyl Iodide             | 4.26 | 142 | 174563  | 52.120  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.23 | 59  | 36097   | 216.569 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 117167  | 53.032  | ug/l   | 96     |
| 13) Acrolein                  | 3.90 | 56  | 57419   | 263.158 | ug/l   | 99     |
| 14) Allyl chloride            | 4.66 | 41  | 209485  | 54.537  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.37 | 53  | 135126  | 227.562 | ug/l   | 100    |
| 16) Acetone                   | 4.14 | 43  | 156346  | 292.997 | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.37 | 76  | 356957  | 49.282  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.68 | 43  | 67522   | 44.882  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 221987  | 48.624  | ug/l   | 95     |
| 20) Methylene Chloride        | 4.90 | 84  | 133893  | 51.630  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96  | 128117  | 48.983  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 426577  | 50.515  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.26 | 43  | 1237855 | 240.128 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 244604  | 47.892  | ug/l   | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 193754  | 231.825 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 153287  | 55.334  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 139522  | 48.238  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 99193   | 43.597  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 117385  | 218.483 | ug/l   | 100    |
| 30) Chloroform                | 7.68 | 83  | 245307  | 47.083  | ug/l   | 99     |
| 31) Cyclohexane               | 7.95 | 56  | 224505  | 50.022  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 197841  | 49.893  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 200952  | 51.968  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 82096   | 43.633  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 188548  | 51.284  | ug/l   | 99     |

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 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 05:07:25 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 238449   | 56.304  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 554742   | 50.181  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.49  | 41   | 48100    | 44.442  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 165415   | 46.234  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 158501   | 44.449  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 142403   | 51.096  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 140909   | 49.022  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 69889    | 46.242  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 179845   | 48.369  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.44  | 41   | 77616    | 45.703  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.49  | 88   | 19534    | 864.771 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 422660   | 229.049 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 348740   | 50.875  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 183297   | 49.374  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 214158   | 51.102  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 97603    | 46.497  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 123934   | 48.382  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 170477   | 46.595  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 325993   | 242.142 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 308370   | 243.362 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 116236   | 47.436  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 93078    | 46.367  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 119503   | 48.432  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 368579   | 50.123  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 130092   | 50.626  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 674231   | 53.621  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.85 | 106  | 514244   | 106.801 | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 237533   | 53.463  | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 399025   | 52.815  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 68428    | 48.252  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 678964   | 57.597  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 154128   | 48.237  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 114272   | 47.819  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 75633m   | 44.249  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 152154   | 51.992  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.81 | 91   | 852292   | 57.596  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 469860   | 55.269  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 575551   | 56.649  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 36930    | 52.853  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 489680   | 53.566  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 487861   | 58.225  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 587916   | 55.702  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 727402   | 58.032  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 633286   | 57.820  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 313619   | 52.894  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 304719   | 51.107  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 620466   | 57.590  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 111226   | 52.719  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 271264   | 50.831  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 19226    | 46.479  | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 194078   | 53.727 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 115574   | 55.936 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 336696   | 52.152 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 170137   | 52.602 | ug/l  | 100      |

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

