

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070318\  
 Data File : VW003710.D  
 Acq On : 03 Jul 2018 20:36  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.04G/5ML/MSVOA W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

apatel  
 7/5/2018 11:12:13 AM

Quant Time: Jul 05 02:54:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070218S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 03 08:55:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 225310   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 358329   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 336856   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 180286   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 135503   | 50.44 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.88% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 117040   | 50.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.16% |      |
| 50) Toluene-d8              | 10.33  | 98  | 466836   | 50.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.76% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 169259   | 51.35 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.70% |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 57529   | 47.416  | ug/l | 94     |
| 3) Chloromethane              | 2.21 | 50  | 95679   | 53.310  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.36 | 62  | 135522  | 55.343  | ug/l | 99     |
| 5) Bromomethane               | 2.78 | 94  | 88396   | 55.057  | ug/l | 97     |
| 6) Chloroethane               | 2.92 | 64  | 78792   | 53.475  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 61300   | 47.075  | ug/l | 98     |
| 8) Diethyl Ether              | 3.67 | 74  | 63507   | 52.709  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 113505  | 52.452  | ug/l | 100    |
| 10) Methyl Iodide             | 4.26 | 142 | 173259  | 54.525  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 45596   | 271.268 | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 113109  | 52.443  | ug/l | 97     |
| 13) Acrolein                  | 3.89 | 56  | 27179   | 333.246 | ug/l | 96     |
| 14) Allyl chloride            | 4.66 | 41  | 199782  | 54.160  | ug/l | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 152723  | 273.299 | ug/l | 100    |
| 16) Acetone                   | 4.14 | 43  | 145247  | 226.522 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.37 | 76  | 360919  | 55.742  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 71904   | 51.590  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 231763  | 55.013  | ug/l | 100    |
| 20) Methylene Chloride        | 4.91 | 84  | 131230  | 53.668  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 127885  | 54.139  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 422238  | 55.831  | ug/l | 99     |
| 23) Vinyl Acetate             | 6.26 | 43  | 1316052 | 256.284 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 241102  | 53.458  | ug/l | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 217129  | 264.458 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 132018  | 47.740  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 139236  | 54.128  | ug/l | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 104325  | 52.623  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 137929  | 280.249 | ug/l | 99     |
| 30) Chloroform                | 7.68 | 83  | 244045  | 53.513  | ug/l | 97     |
| 31) Cyclohexane               | 7.95 | 56  | 212625  | 51.778  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 188913  | 53.213  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 194689  | 54.125  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 95713   | 54.666  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 181813  | 53.133  | ug/l | 96     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Jul 03 08:55:34 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 225866   | 54.527   | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 545075   | 53.914   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 56555    | 56.828   | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 172065   | 54.051   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 183821   | 55.744   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 139882   | 53.522   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 140312   | 53.500   | ug/l   | 96       |
| 46) Dibromomethane             | 9.46  | 93   | 73432    | 53.914   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 181824   | 54.003   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 88285    | 50.619   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.47  | 88   | 24008    | 1123.639 | ug/l # | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 490423   | 282.239  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 345352   | 54.738   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 189248   | 54.179   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 212204   | 53.586   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 102782   | 53.563   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 138557   | 50.818   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 183034   | 54.908   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 288153   | 280.938  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 345332   | 278.020  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 122252   | 54.498   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 100609   | 54.739   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 128768   | 56.558   | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 376322   | 53.138   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 131098   | 52.969   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 679410   | 54.753   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 515112   | 109.164  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 241819   | 55.435   | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 412864   | 56.350   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 74776    | 54.374   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 663170   | 54.077   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.28 | 43   | 182681   | 56.414   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 126878   | 52.894   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 85762m   | 52.906   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 155096   | 52.697   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.81 | 91   | 824931   | 54.451   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 467534   | 54.231   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 569046   | 54.851   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 39859    | 52.102   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 499022   | 54.528   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 478462   | 54.674   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 587538   | 55.011   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 700414   | 53.786   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 622942   | 54.691   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 315912   | 52.888   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 310464   | 52.013   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 605015   | 53.726   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 112572   | 53.198   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 280984   | 52.610   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 22351    | 53.478   | ug/l   | 100      |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 196682   | 52.227 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 110967   | 51.019 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 378168   | 55.369 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 175678   | 52.369 | ug/l  | 100      |

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

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