

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011019\  
 Data File : VW008161.D  
 Acq On : 10 Jan 2019 20:47  
 Operator : SY/AP  
 Sample : K1088-08MS  
 Misc : 5.02G/5ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CPSB-07(15-20)MS

Manual Integrations  
 APPROVED

MMDadoda  
 1/11/2019 2:27:46 PM

Quant Time: Jan 11 06:48:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.95   | 168  | 35274    | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.84   | 114  | 67785    | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.63  | 117  | 42962    | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.56  | 152  | 10515    | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.31   | 65   | 25763    | 64.98   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 129.96% |          |
| 35) Dibromofluoromethane      | 7.88   | 113  | 23601    | 59.70   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 119.40% |          |
| 50) Toluene-d8                | 10.32  | 98   | 64022    | 38.59   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 77.18%  |          |
| 62) 4-Bromofluorobenzene      | 12.62  | 95   | 15364    | 25.83   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 51.66%  |          |
| Target Compounds              |        |      |          |         |         |          |
|                               |        |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 2.01   | 85   | 17447    | 60.605  | ug/l    | 100      |
| 3) Chloromethane              | 2.21   | 50   | 23276    | 62.321  | ug/l    | 96       |
| 4) Vinyl Chloride             | 2.36   | 62   | 31927    | 65.498  | ug/l    | 97       |
| 5) Bromomethane               | 2.79   | 94   | 19876    | 54.432  | ug/l    | 99       |
| 6) Chloroethane               | 2.93   | 64   | 19866    | 54.160  | ug/l    | 97       |
| 7) Trichlorofluoromethane     | 3.26   | 101  | 26488    | 66.840  | ug/l    | 100      |
| 8) Diethyl Ether              | 3.68   | 74   | 15475    | 69.076  | ug/l    | 99       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06   | 101  | 13043    | 33.150  | ug/l    | 96       |
| 10) Methyl Iodide             | 4.27   | 142  | 31880    | 55.595  | ug/l    | 99       |
| 11) Tert butyl alcohol        | 5.16   | 59   | 10689    | 463.256 | ug/l #  | 100      |
| 12) 1,1-Dichloroethene        | 4.03   | 96   | 21572    | 55.844  | ug/l    | 98       |
| 13) Acrolein                  | 3.89   | 56   | 5219     | 197.421 | ug/l    | 95       |
| 14) Allyl chloride            | 4.67   | 41   | 35275    | 50.296  | ug/l    | 98       |
| 15) Acrylonitrile             | 5.37   | 53   | 32785    | 384.384 | ug/l    | 98       |
| 16) Acetone                   | 4.12   | 43   | 34025    | 498.489 | ug/l #  | 85       |
| 17) Carbon Disulfide          | 4.37   | 76   | 59972    | 49.698  | ug/l    | 98       |
| 18) Methyl Acetate            | 4.67   | 43   | 25050    | 99.973  | ug/l    | 99       |
| 19) Methyl tert-butyl Ether   | 5.42   | 73   | 53715    | 85.534  | ug/l    | 92       |
| 20) Methylene Chloride        | 4.92   | 84   | 28383    | 75.132  | ug/l    | 95       |
| 21) trans-1,2-Dichloroethene  | 5.42   | 96   | 22754    | 54.204  | ug/l    | 95       |
| 22) Diisopropyl ether         | 6.31   | 45   | 90309    | 67.516  | ug/l    | 97       |
| 23) Vinyl Acetate             | 6.26   | 43   | 200639   | 285.607 | ug/l    | 99       |
| 24) 1,1-Dichloroethane        | 6.22   | 63   | 47631    | 61.116  | ug/l    | 99       |
| 25) 2-Butanone                | 7.17   | 43   | 43593    | 395.205 | ug/l    | 95       |
| 26) 2,2-Dichloropropane       | 7.16   | 77   | 30483    | 57.725  | ug/l    | 99       |
| 27) cis-1,2-Dichloroethene    | 7.17   | 96   | 27414    | 59.855  | ug/l    | 98       |
| 28) Bromochloromethane        | 7.51   | 49   | 19734    | 64.017  | ug/l #  | 99       |
| 29) Tetrahydrofuran           | 7.52   | 42   | 28501    | 386.811 | ug/l    | 98       |
| 30) Chloroform                | 7.68   | 83   | 46175    | 62.245  | ug/l    | 94       |
| 31) Cyclohexane               | 7.95   | 56   | 14787    | 17.723  | ug/l    | 96       |
| 32) 1,1,1-Trichloroethane     | 7.87   | 97   | 31773    | 49.224  | ug/l    | 98       |
| 36) 1,1-Dichloropropene       | 8.08   | 75   | 25938    | 37.147  | ug/l    | 99       |
| 37) Ethyl Acetate             | 7.25   | 43   | 19339    | 69.132  | ug/l    | 98       |
| 38) Carbon Tetrachloride      | 8.07   | 117  | 21862    | 34.208  | ug/l    | 100      |

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Quant Time: Jan 11 06:48:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 16975    | 19.173   | ug/l   | 95       |
| 40) Benzene                    | 8.32  | 78   | 97033    | 51.235   | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.49  | 41   | 11163    | 63.171   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 31145    | 58.471   | ug/l   | 96       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 38816    | 69.399   | ug/l   | 94       |
| 44) Trichloroethene            | 9.09  | 130  | 19748    | 40.734   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 25372    | 54.030   | ug/l   | 94       |
| 46) Dibromomethane             | 9.46  | 93   | 13573    | 58.854   | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.65  | 83   | 30348    | 51.824   | ug/l # | 95       |
| 48) Methyl methacrylate        | 9.44  | 41   | 18090    | 68.545   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 5321     | 1434.690 | ug/l # | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 93019    | 343.576  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 44673    | 36.935   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 27982    | 45.938   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 32299    | 44.716   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 19770    | 61.058   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 25726    | 64.157   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 33608    | 56.754   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 66091    | 319.079  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 64496    | 352.273  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 18036    | 50.726   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 16926    | 55.091   | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.86 | 164  | 9258     | 33.112   | ug/l   | 92       |
| 65) Chlorobenzene              | 11.66 | 112  | 43046    | 47.294   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 15933    | 53.821   | ug/l   | 95       |
| 67) Ethyl Benzene              | 11.73 | 91   | 53501    | 32.125   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 41206    | 64.824   | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 22037    | 37.437   | ug/l   | 97       |
| 70) Styrene                    | 12.18 | 104  | 36378    | 39.455   | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 8803     | 66.442   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.47 | 105  | 76618    | 92.811   | ug/l   | 80       |
| 74) N-amyl acetate             | 12.27 | 43   | 28929    | 158.240  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 19915    | 150.715  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 16963m   | 176.964  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 13431    | 76.998   | ug/l   | 94       |
| 78) n-propylbenzene            | 12.81 | 91   | 36817    | 36.398   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 25145    | 44.558   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 24103    | 35.530   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 4741     | 115.177  | ug/l # | 30       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 27660    | 46.538   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 14674    | 24.450   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 31837    | 45.503   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 22227    | 25.283   | ug/l   | 94       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 175170   | 230.737  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 14299    | 40.411   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 15000    | 42.252   | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 14428    | 19.404   | ug/l   | 93       |
| 90) Hexachloroethane           | 14.10 | 117  | 3214     | 25.064   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 14863    | 47.795   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 3294     | 154.902  | ug/l   | 95       |

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ALS Vial : 21 Sample Multiplier: 1

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Quant Time: Jan 11 06:48:04 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|-------|------|----------|--------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 3807     | 18.439 | ug/l # | 78       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 1128     | 10.208 | ug/l   | 92       |
| 95) Naphthalene            | 15.37 | 128  | 22731    | 58.964 | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 3550     | 20.170 | ug/l   | 90       |

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

