

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072519\  
 Data File : VW011464.D  
 Acq On : 24 Jul 2019 10:11  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/25/2019 8:18:01 AM

Quant Time: Jul 24 12:10:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 11 08:14:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 246196   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 404491   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 352784   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 167954   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 138436   | 44.75 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.50% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 116198   | 48.20 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.40% |      |
| 50) Toluene-d8            | 10.32  | 98  | 463166   | 47.53 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.06% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 170592   | 47.76 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.52% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 71547   | 38.966  | ug/l | 96     |
| 3) Chloromethane              | 2.21 | 50  | 106164  | 44.871  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.36 | 62  | 136529  | 44.088  | ug/l | 96     |
| 5) Bromomethane               | 2.77 | 94  | 70762   | 45.474  | ug/l | 96     |
| 6) Chloroethane               | 2.92 | 64  | 78553   | 47.095  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 64481   | 58.613  | ug/l | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 75570   | 49.646  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 121464  | 46.095  | ug/l | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 177561  | 48.993  | ug/l | 97     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 49724   | 217.101 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 127779  | 46.720  | ug/l | 93     |
| 13) Acrolein                  | 3.89 | 56  | 47455   | 260.199 | ug/l | 98     |
| 14) Allyl chloride            | 4.66 | 41  | 280148  | 56.171  | ug/l | 96     |
| 15) Acrylonitrile             | 5.36 | 53  | 187503  | 241.869 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 216017  | 290.212 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.38 | 76  | 366959  | 44.257  | ug/l | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 91161   | 42.865  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 215751  | 51.990  | ug/l | 99     |
| 20) Methylene Chloride        | 4.92 | 84  | 142807  | 48.634  | ug/l | 93     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 138208  | 48.632  | ug/l | 94     |
| 22) Diisopropyl ether         | 6.31 | 45  | 534805  | 49.856  | ug/l | 97     |
| 23) Vinyl Acetate             | 6.25 | 43  | 1711933 | 257.877 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 281804  | 50.029  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 292476  | 250.317 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 157051  | 53.637  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 154746  | 50.478  | ug/l | 100    |
| 28) Bromochloromethane        | 7.51 | 49  | 115771  | 45.201  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 174117  | 227.264 | ug/l | 99     |
| 30) Chloroform                | 7.67 | 83  | 254405  | 48.768  | ug/l | 100    |
| 31) Cyclohexane               | 7.95 | 56  | 267319  | 44.609  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 195472  | 49.259  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 207645  | 48.206  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.25 | 43  | 119755  | 46.273  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 176181  | 48.249  | ug/l | 99     |

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Manual Integrations  
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 7/25/2019 8:18:01 AM

Quant Time: Jul 24 12:10:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 11 08:14:17 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.33  | 83   | 250982   | 48.073  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 589110   | 49.488  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 77202    | 52.157  | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 180431   | 46.724  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 228066   | 46.676  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 143677   | 50.156  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 159950   | 49.619  | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 71621    | 47.297  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.64  | 83   | 189624   | 48.941  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.43  | 41   | 109733   | 46.681  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 21549    | 852.546 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 591481   | 231.735 | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 361584   | 50.073  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 199271   | 48.317  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 239273   | 49.290  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 103031   | 47.960  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.64 | 69   | 158887   | 48.579  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 196280   | 48.317  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 361112   | 238.157 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 417553   | 235.893 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 116572   | 49.485  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 98216    | 48.266  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 115728   | 48.615  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 361776   | 50.439  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 127170   | 50.356  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 694762   | 50.599  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 504659   | 101.575 | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 235692   | 50.332  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 415405   | 51.401  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 65754    | 48.970  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 653139   | 52.021  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 208102   | 47.592  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 124709   | 48.456  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 102550m  | 52.836  | ug/l   |          |
| 77) Bromobenzene               | 12.74 | 156  | 143543   | 50.945  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.80 | 91   | 797451   | 51.561  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 454274   | 51.042  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 547801   | 51.358  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 41254    | 48.074  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 475425   | 51.287  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 465275   | 52.304  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 548254   | 51.190  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 658231   | 51.280  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 595160   | 51.696  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 275742   | 50.865  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 274782   | 50.336  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 590895   | 51.450  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 105072   | 49.944  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 245716   | 49.962  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 20599    | 45.123  | ug/l   | 96       |

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QLast Update : Thu Jul 11 08:14:17 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 173756   | 51.294 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 106422   | 51.172 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 325956   | 50.214 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 150209   | 50.244 | ug/l  | 99       |

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

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