

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041519\  
 Data File : VN055039.D  
 Acq On : 15 Apr 2019 11:35  
 Operator : JC/SP  
 Sample : VSTDICC100  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

MMDadoda  
 4/17/2019 1:49:12 PM

Quant Time: Apr 15 12:15:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 15 11:57:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 430386   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 683214   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 615890   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 276882   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 543920   | 100.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 201.42% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 441983   | 101.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 202.96% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1648434  | 103.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 206.10% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 578572   | 107.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 214.74% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 468842   | 98.761  | ug/l   | 100    |
| 3) Chloromethane              | 2.06 | 50   | 606681   | 95.298  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.19 | 62   | 500494   | 96.884  | ug/l   | 98     |
| 5) Bromomethane               | 2.55 | 94   | 273998   | 91.625  | ug/l   | 96     |
| 6) Chloroethane               | 2.70 | 64   | 271660   | 95.357  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.01 | 101  | 626101   | 96.620  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74   | 202781   | 99.505  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101  | 318512   | 94.241  | ug/l   | 99     |
| 10) Methyl Iodide             | 3.94 | 142  | 619887   | 127.174 | ug/l   | 95     |
| 11) Tert butyl alcohol        | 4.82 | 59   | 162627   | 489.319 | ug/l # | 72     |
| 12) 1,1-Dichloroethene        | 3.73 | 96   | 309102   | 92.891  | ug/l   | 99     |
| 13) Acrolein                  | 3.60 | 56   | 175991   | 438.697 | ug/l   | 98     |
| 14) Allyl chloride            | 4.31 | 41   | 837458   | 103.003 | ug/l   | 100    |
| 15) Acrylonitrile             | 4.99 | 53   | 958159   | 522.695 | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43   | 685753   | 462.178 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.04 | 76   | 1108768  | 102.301 | ug/l   | 100    |
| 18) Methyl Acetate            | 4.33 | 43   | 446804   | 97.145  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73   | 1219987  | 102.613 | ug/l   | 99     |
| 20) Methylene Chloride        | 4.54 | 84   | 484358   | 89.084  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.03 | 96   | 440543   | 100.498 | ug/l   | 97     |
| 22) Diisopropyl ether         | 5.96 | 45   | 1713478  | 103.943 | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.90 | 43   | 6278638  | 544.555 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.85 | 63   | 881215   | 98.977  | ug/l   | 99     |
| 25) 2-Butanone                | 6.85 | 43   | 1216704  | 532.430 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.82 | 77   | 596055   | 101.193 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 516223   | 101.370 | ug/l   | 99     |
| 28) Bromochloromethane        | 7.19 | 49   | 417974   | 98.948  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.22 | 42   | 771378   | 514.926 | ug/l   | 100    |
| 30) Chloroform                | 7.37 | 83   | 840482   | 98.996  | ug/l   | 100    |
| 31) Cyclohexane               | 7.65 | 56   | 798278   | 81.478  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 692632   | 102.406 | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 640018   | 101.360 | ug/l   | 100    |
| 37) Ethyl Acetate             | 6.94 | 43   | 513797   | 108.391 | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 590425   | 99.338  | ug/l   | 99     |

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Quant Time: Apr 15 12:15:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 15 11:57:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 691213   | 95.620   | ug/l  | 99       |
| 40) Benzene                    | 8.04  | 78   | 1915641  | 100.347  | ug/l  | 100      |
| 41) Methacrylonitrile          | 7.18  | 41   | 300990   | 103.193  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 655889   | 97.667   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 880053   | 108.576  | ug/l  | 99       |
| 44) Trichloroethene            | 8.83  | 130  | 488568   | 100.144  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 538530   | 99.965   | ug/l  | 100      |
| 46) Dibromomethane             | 9.21  | 93   | 307299   | 99.551   | ug/l  | 98       |
| 47) Bromodichloromethane       | 9.40  | 83   | 649911   | 103.533  | ug/l  | 98       |
| 48) Methyl methacrylate        | 9.20  | 41   | 448922   | 107.515  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 9.20  | 88   | 78532    | 1748.860 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 2545692  | 536.397  | ug/l  | 99       |
| 52) Toluene                    | 10.16 | 92   | 1149542  | 101.818  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 658768   | 115.897  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 785571   | 112.194  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 431919   | 102.697  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 612130   | 113.109  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 750157   | 103.394  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 1169999  | 552.534  | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 1622033  | 546.931  | ug/l  | 100      |
| 60) Dibromochloromethane       | 10.90 | 129  | 475071   | 113.480  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 425745   | 105.730  | ug/l  | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 448010   | 92.994   | ug/l  | 99       |
| 65) Chlorobenzene              | 11.43 | 112  | 1213855  | 102.215  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 454844   | 103.930  | ug/l  | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 2210894  | 101.353  | ug/l  | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 1618327  | 202.777  | ug/l  | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 795400   | 100.728  | ug/l  | 99       |
| 70) Styrene                    | 11.96 | 104  | 1358869  | 108.531  | ug/l  | 99       |
| 71) Bromoform                  | 12.13 | 173  | 307639   | 116.365  | ug/l  | 99       |
| 73) Isopropylbenzene           | 12.25 | 105  | 2096533  | 89.057   | ug/l  | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 714022   | 100.627  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 546347   | 89.639   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 420366m  | 82.523   | ug/l  |          |
| 77) Bromobenzene               | 12.53 | 156  | 527384   | 91.195   | ug/l  | 99       |
| 78) n-propylbenzene            | 12.59 | 91   | 2358482  | 91.955   | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 1436759  | 90.678   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 1738534  | 90.717   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 139303   | 112.873  | ug/l  | 91       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 1449399  | 94.587   | ug/l  | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 1447609  | 88.172   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1734874  | 94.409   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1872176  | 89.313   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 1668366  | 91.502   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 894381   | 95.101   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 872577   | 97.010   | ug/l  | 99       |
| 89) n-Butylbenzene             | 13.61 | 91   | 1414983  | 98.812   | ug/l  | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 276598   | 91.806   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 867117   | 94.976   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 82386    | 103.952  | ug/l  | 95       |

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|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 444339   | 115.576 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 251769   | 79.124  | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 1049398  | 116.623 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 431674   | 104.816 | ug/l  | 99       |

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

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