

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011519\  
 Data File : VN053411.D  
 Acq On : 15 Jan 2019 16:41  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 16 04:17:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 15 11:52:35 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.944  | 2.1    | 100   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.446  | 3.1    | 103   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.359  | 3.3#   | 102   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.902  | 6.2    | 102   | 0.02     |
| 6 T   | Chloroethane                | 50.000  | 47.965  | 4.1    | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.279  | 1.4    | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.746  | -1.5   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.615  | 2.8    | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.532  | 0.9    | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 351.831 | -40.7# | 157   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.713  | 0.6#   | 104   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 282.838 | -13.1  | 129   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.810  | -3.6   | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 283.253 | -13.3  | 115   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 280.688 | -12.3  | 123   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.464  | 3.1    | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.585  | -7.2   | 113   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.491  | -5.0   | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.752  | 4.5    | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.891  | 0.2    | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.863  | -1.7   | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 270.700 | -8.3   | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.927  | 0.1    | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 292.301 | -16.9  | 121   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.356  | -0.7   | 105   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.319  | -0.6   | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.176  | 1.6    | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 293.513 | -17.4  | 121   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.058  | -0.1#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.135  | 3.7    | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.002  | -0.0   | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.478  | 1.0    | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.688  | 0.6    | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.782  | 0.4    | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 57.291  | -14.6  | 116   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.436  | 1.1    | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.645  | 0.7    | 102   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.754  | 0.5    | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.019  | 6.0    | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.624  | 0.8    | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.483  | -9.0   | 114   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.684  | 0.6    | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.627  | 0.7#   | 103   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.420   | 1.2    | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.370   | 1.3    | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.858   | -9.7   | 111   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1360.667 | -36.1# | 152   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.405   | 1.2    | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 293.557  | -17.4  | 117   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.208   | -0.4#  | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.009   | -4.0   | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.779   | -1.6   | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.045   | -2.1   | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.312   | -0.6   | 109   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.037   | -2.1   | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 265.022  | -6.0   | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 294.866  | -17.9  | 119   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.429   | -0.9   | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.128   | -4.3   | 106   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.597   | 0.8    | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.990   | 4.0    | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.615   | 0.8    | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.507   | 1.0    | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.729   | -1.5#  | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.278  | -2.3   | 102   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.241   | -2.5   | 103   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.006   | -4.0   | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.065   | -6.1   | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.124   | -2.2   | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 57.328   | -14.7  | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.410   | -8.8   | 112   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.508   | -19.0  | 125   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.625   | 0.8    | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.420   | -2.8   | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.210   | -0.4   | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.193   | -2.4   | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.732   | -1.5   | 111   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.362   | -0.7   | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.147   | -2.3   | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.766   | -1.5   | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.241   | -2.5   | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.549   | -3.1   | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.038   | -0.1   | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.434   | 1.1    | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.220   | -2.4   | 101   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.100 | -2.2  | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.068 | -2.1  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 60.399 | -20.8 | 121   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.399 | -0.8  | 108   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.161 | -0.3  | 97    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.070 | -4.1  | 116   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.042 | -2.1  | 115   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6