

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN053019\  
 Data File : VN055888.D  
 Acq On : 30 May 2019 9:54  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 30 17:36:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 24 06:41:54 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.392  | 9.2   | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.038  | 9.9   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.771  | 8.5#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.166  | -6.3  | 96    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.013  | 4.0   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.511  | 3.0   | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.771  | 4.5   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.504  | -1.0  | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.017  | 2.0   | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 242.930 | 2.8   | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.307  | 5.4#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 202.061 | 19.2  | 79    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.876  | 4.2   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 245.675 | 1.7   | 93    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 263.296 | -5.3  | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.873  | 18.3  | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.745  | -3.5  | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.845  | 2.3   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.574  | 4.9   | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.278  | 5.4   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.235  | -0.5  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 245.789 | 1.7   | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.772  | 2.5   | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 251.546 | -0.6  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.086  | 3.8   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.990  | 2.0   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.199  | -0.4  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 244.325 | 2.3   | 93    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.680  | 0.6#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.694  | 4.6   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.755  | 4.5   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.215  | 1.6   | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.602  | 2.8   | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.381  | 5.2   | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.883  | 2.2   | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 44.730  | 10.5  | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.929  | 2.1   | 97    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.918  | 2.2   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 44.639  | 10.7  | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.596  | 2.8   | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.787  | 4.4   | 93    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.734  | 2.5   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.084  | -0.2# | 96    | 0.00     |

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 Quant Title : SW846 8260  
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 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 48.933  | 2.1   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 48.000  | 4.0   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.435  | -0.9  | 95    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 961.026 | 3.9   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.297  | 3.4   | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 246.850 | 1.3   | 93    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.697  | 0.6#  | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.396  | 3.2   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.754  | 2.5   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.631  | 0.7   | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.727  | 0.5   | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.913  | 0.2   | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 226.097 | 9.6   | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 246.269 | 1.5   | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 46.653  | 6.7   | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.835  | 2.3   | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.119  | 1.8   | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.116  | 5.8   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.438  | 1.1   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.507  | 7.0   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.576  | 0.8#  | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.475  | 0.5   | 96    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.870  | 2.3   | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.897  | -1.8  | 94    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 43.051  | 13.9  | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.956  | -9.9  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.258  | -2.5  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.128  | -6.3  | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.656  | -3.3  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.922  | 6.2   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.808  | 2.4   | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.671  | -9.3  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.665  | -7.3  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.599  | 12.8  | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.904  | 2.2   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.956  | -9.9  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.326  | -6.7  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.391  | -10.8 | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.682  | 2.6   | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.639  | 2.7   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.274  | 1.5   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.015  | -2.0  | 97    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 43.746 | 12.5 | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.980 | 4.0  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 42.153 | 15.7 | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 44.149 | 11.7 | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.147 | 1.7  | 89    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.857 | 0.3  | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.102 | -0.2 | 91    | 0.00     |

(#) = Out of Range

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