

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN092019\  
 Data File : VN058243.D  
 Acq On : 20 Sep 2019 12:26  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 21 00:07:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 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    | 74    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.330  | 7.3    | 75    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.403  | -0.8   | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.626  | -1.3#  | 76    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.236  | -2.5   | 79    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.646  | -7.3   | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.329  | 7.3    | 78    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.396  | 5.2    | 75    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.294  | 5.4    | 77    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.769  | 2.5    | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 226.923 | 9.2    | 69    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.076  | -0.2#  | 77    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 393.107 | -57.2# | 116   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.426  | 3.1    | 77    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 263.660 | -5.5   | 79    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 235.227 | 5.9    | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.046  | 9.9    | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.167  | -0.3   | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.130  | -4.3   | 80    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.606  | -3.2   | 80    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.454  | 1.1    | 76    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.288  | -2.6   | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 274.174 | -9.7   | 79    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.036  | -0.1   | 80    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 261.136 | -4.5   | 78    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.107  | 1.8    | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.441  | 1.1    | 77    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.605  | -7.2   | 78    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 251.071 | -0.4   | 78    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.758  | 0.5#   | 79    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.889  | 0.2    | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.658  | -1.3   | 76    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.965  | -7.9   | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 75    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.151  | -4.3   | 76    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.483  | 7.0    | 77    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.224  | -4.4   | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.469  | 3.1    | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.353  | 1.3    | 76    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.719  | 2.6    | 77    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.798  | 2.4    | 74    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.535  | 0.9    | 79    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.468  | 1.1    | 78    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.625  | 2.8    | 76    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.469  | -2.9#  | 79    | 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   | 51.069  | -2.1  | 79    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.637  | -5.3  | 78    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.528  | -5.1  | 78    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 887.931 | 11.2  | 64    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.582  | -7.2  | 77    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 293.294 | -17.3 | 81    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.207  | -0.4# | 78    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.407  | -8.8  | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.477  | -7.0  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.681  | -5.4  | 80    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.132  | -10.3 | 79    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.051  | -4.1  | 79    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 311.770 | -24.7 | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 291.129 | -16.5 | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.861  | -9.7  | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.421  | -4.8  | 79    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.619  | -9.2  | 80    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 76    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.392  | 7.2   | 77    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.557  | 0.9   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.530  | -5.1  | 78    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.155  | -4.3# | 79    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.629  | 0.4   | 78    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.459  | -2.9  | 80    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.132  | -6.3  | 79    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.411  | 5.2   | 78    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 75    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.462  | -6.9  | 80    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.816  | -11.6 | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.844  | -5.7  | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.767  | -11.5 | 87    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.703  | 0.6   | 78    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.172  | -10.3 | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.819  | -5.6  | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.338  | -8.7  | 79    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.523  | 3.0   | 78    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.226  | -6.5  | 80    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.131  | -8.3  | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.366  | -10.7 | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.286  | -12.6 | 81    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.550  | -13.1 | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.191  | -6.4  | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.861  | -3.7  | 79    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.468  | -12.9 | 79    | 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 | 50.086 | -0.2  | 80    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.116 | -6.2  | 79    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.098 | -10.2 | 80    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.103 | -6.2  | 78    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.178 | -6.4  | 81    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 55.785 | -11.6 | 77    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.073 | -6.1  | 76    | 0.00     |

(#) = Out of Range

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