

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN020519\  
 Data File : VN053610.D  
 Acq On : 5 Feb 2019 10:33  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 06 03:38:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 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    | 118   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.305  | 3.4    | 115   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.327  | 5.3    | 112   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.803  | 4.4#   | 112   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.215  | 7.6    | 112   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.124  | 3.8    | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.420  | 3.2    | 115   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.525  | 7.0    | 111   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.911  | 0.2    | 121   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.461  | 5.1    | 113   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 245.486 | 1.8    | 119   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.152  | 3.7#   | 114   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 314.288 | -25.7# | 186   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.379  | 3.2    | 114   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 241.195 | 3.5    | 113   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 252.861 | -1.1   | 128   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.866  | 8.3    | 110   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.188  | 5.6    | 118   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.928  | 2.1    | 113   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.140  | 7.7    | 116   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.181  | 5.6    | 113   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.363  | -0.7   | 117   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 249.918 | 0.0    | 113   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.669  | 4.7    | 115   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 245.479 | 1.8    | 116   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.663  | 2.7    | 117   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.326  | 3.3    | 114   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.821  | 6.4    | 112   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 239.311 | 4.3    | 111   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.141  | 5.7#   | 116   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.742  | 4.5    | 115   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.311  | 3.4    | 115   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.250  | 9.5    | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 115   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.522  | 5.0    | 110   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.044  | -2.1   | 118   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.019  | -2.0   | 109   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.665  | 0.7    | 116   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.847  | -5.7   | 118   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.218  | 1.6    | 115   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.110  | 3.8    | 112   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.328  | 3.3    | 115   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.284  | 7.4    | 111   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.515  | 1.0    | 119   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.015  | -0.0#  | 115   | 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   | 48.022  | 4.0   | 114   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.988  | 0.0   | 117   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.743  | 4.5   | 111   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 962.754 | 3.7   | 119   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.377  | 5.2   | 110   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 257.329 | -2.9  | 114   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.353  | -0.7# | 115   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.677  | -1.4  | 115   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.921  | -1.8  | 116   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.514  | 1.0   | 113   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.485  | -5.0  | 116   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.846  | 2.3   | 114   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 203.559 | 18.6  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 255.005 | -2.0  | 115   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.677  | -1.4  | 116   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.655  | 4.7   | 112   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.429  | 3.1   | 112   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 113   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.986  | 2.0   | 115   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.086  | 1.8   | 115   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.714  | -1.4  | 117   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.591  | -1.2# | 116   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.230 | -3.2  | 116   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.168  | -2.3  | 115   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.010  | -4.0  | 116   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.629  | -3.3  | 115   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 113   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.666  | -1.3  | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.461  | -2.9  | 116   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.251  | 5.5   | 113   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.473  | -0.9  | 119   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.341  | 1.3   | 114   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.709  | -3.4  | 118   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.064  | -0.1  | 116   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.285  | -4.6  | 117   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.820  | 0.4   | 111   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.711  | -1.4  | 117   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.526  | -3.1  | 118   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.168  | -4.3  | 117   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.675  | -3.3  | 117   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.553  | -5.1  | 117   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.663  | 0.7   | 117   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.707  | 0.6   | 117   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.851  | -5.7  | 119   | 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 | 51.691 | -3.4 | 121   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.072 | 1.9  | 113   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.224 | 5.6  | 107   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.967 | -3.9 | 111   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.981 | 6.0  | 108   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.477 | 9.0  | 105   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.071 | -0.1 | 108   | 0.00     |

(#) = Out of Range

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