

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN050720\  
 Data File : VN061348.D  
 Acq On : 7 May 2020 20:44  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 08 04:37:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 05 07:01:08 2020  
 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.825  | 6.3   | 77    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.077  | -2.2  | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.635  | -1.3# | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 40.641  | 18.7  | 71    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.727  | 2.5   | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.561  | -13.1 | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.349  | -10.7 | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.085  | -2.2  | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 40.971  | 18.1  | 72    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 247.510 | 1.0   | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.336  | 1.3#  | 87    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 184.205 | 26.3# | 68    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 57.014  | -14.0 | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 258.131 | -3.3  | 88    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 239.384 | 4.2   | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 38.811  | 22.4  | 66    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.052  | 7.9   | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.044  | -0.1  | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.983  | 0.0   | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.503  | 3.0   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.633  | -5.3  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 262.278 | -4.9  | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.923  | -1.8  | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 248.957 | 0.4   | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.807  | 0.4   | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.050  | 1.9   | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.872  | -11.7 | 105   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 247.762 | 0.9   | 85    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.367  | 1.3#  | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.272  | 13.5  | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.945  | 2.1   | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.632  | -1.3  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.383  | 5.2   | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.076  | -2.2  | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.299  | -0.6  | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.678  | -1.4  | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.232  | 11.5  | 74    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.600  | 0.8   | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 58.360  | -16.7 | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.836  | -5.7  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.424  | -2.8  | 87    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 45.049  | 9.9   | 78    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.485  | -3.0# | 88    | 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   | 52.756  | -5.5  | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.728  | -5.5  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.469  | -4.9  | 87    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 932.625 | 6.7   | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.779  | -1.6  | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 262.061 | -4.8  | 86    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.855  | -1.7# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.214  | -2.4  | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.587  | -3.2  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.540  | -1.1  | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.713  | 4.6   | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.302  | -4.6  | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 251.324 | -0.5  | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 259.980 | -4.0  | 84    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.488  | -5.0  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.037  | -2.1  | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.717  | -3.4  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 82    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.152  | 11.7  | 74    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.969  | -1.9  | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.937  | -7.9  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.697  | -3.4# | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.969 | -3.0  | 83    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.553  | -1.1  | 81    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.062  | -6.1  | 84    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.195  | -10.4 | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.383  | -0.8  | 83    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.356  | -2.7  | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.401  | -2.8  | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.225  | -0.5  | 85    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.482  | -1.0  | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.881  | -1.8  | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.201  | -2.4  | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.903  | -1.8  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.691  | -1.4  | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.806  | -3.6  | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.387  | 1.2   | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.286  | -0.6  | 82    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.016  | 2.0   | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.121  | 1.8   | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.978  | 0.0   | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.267  | 1.5   | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.809  | 2.4   | 78    | 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 | 64.993 | -30.0# | 127   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.204 | -0.4   | 83    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.096 | -0.2   | 79    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.393 | 3.2    | 78    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.981 | -2.0   | 83    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.294 | 5.4    | 75    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.688 | 2.6    | 80    | 0.00     |

(#) = Out of Range

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