

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN110520\  
 Data File : VN064452.D  
 Acq On : 5 Nov 2020 10:47  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 06 02:57:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 12:09:03 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.930  | 6.1   | 87    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.723  | 10.6  | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.608  | 4.8#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.908  | 6.2   | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.397  | 3.2   | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.279  | 3.4   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.845  | 4.3   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.691  | 6.6   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.766  | 4.5   | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 245.160 | 1.9   | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.607  | 6.8#  | 87    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 229.154 | 8.3   | 90    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.261  | 5.5   | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 256.367 | -2.5  | 89    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 234.219 | 6.3   | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.949  | 6.1   | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.627  | 4.7   | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.937  | 4.1   | 87    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.162  | 5.7   | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.734  | 4.5   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.105  | 1.8   | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 254.531 | -1.8  | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.146  | 3.7   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 254.798 | -1.9  | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.238  | 5.5   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.203  | 3.6   | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.893  | 6.2   | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 251.043 | -0.4  | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.541  | 2.9#  | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.229  | 9.5   | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.143  | 3.7   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.082  | 5.8   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.012  | 2.0   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.609  | -1.2  | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.307  | 1.4   | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.308  | -0.6  | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.460  | -0.9  | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.644  | 0.7   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.791  | -7.6  | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.044  | -2.1  | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.125  | -2.3  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.273  | 1.5   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.435  | -2.9# | 90    | 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   | 52.108   | -4.2  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.560   | -1.1  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.426   | -4.9  | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1118.989 | -11.9 | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.982   | 2.0   | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 269.698  | -7.9  | 89    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.060   | -4.1# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.266   | -4.5  | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.031   | -2.1  | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.832   | -1.7  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.359   | 5.3   | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.564   | -3.1  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.821  | -3.5  | 124   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 246.499  | 1.4   | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.268   | -6.5  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.872   | -7.7  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.158   | 1.7   | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.402   | 1.2   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.380   | 1.2   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.601   | -1.2  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.844   | -3.7# | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.025  | -5.0  | 89    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.345   | -2.7  | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.783   | -7.6  | 89    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.407   | 3.2   | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.186   | 1.6   | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.853   | 8.3   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.418   | 5.2   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.445   | 7.1   | 85    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.124   | 5.8   | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.636   | 0.7   | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.659   | 2.7   | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.801   | 0.4   | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.024   | 6.0   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.057   | -0.1  | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.497   | 1.0   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.612   | -1.2  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.748   | -1.5  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.950   | -3.9  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.411   | 3.2   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.379   | 5.2   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.955   | -3.9  | 90    | 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 | 49.544 | 0.9  | 90    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.978 | 0.0  | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.036 | -2.1 | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 45.514 | 9.0  | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.987 | 2.0  | 91    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 44.078 | 11.8 | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.407 | 7.2  | 94    | 0.00     |

(#) = Out of Range

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