**Data Types**

[decVal] = myBin2Dec (binStr,twos,wordLength,decLength,arrOrText)

[binVal] = myDec2Bin (decNum,twos,wordLength,decLength,arrOrText)

[sgnNum] = myUnsgn2Sgn(unsgnNum(decimal),wordLength)

[fiOut] = myFixPtWrap (sign,Bits)

**Sources**

[rdata] = myGenRndData (n,upsamp,oneOrzero)

[data] = myGenSqWave (n,upsamp,oneOrzero)

[Pn] = myPnGen (pow2,fBtaps([23 18 1]),numSequences)

[SinOut] = mySin (fSin(Hz),fs(Hz),numPeriods,phase(rad))

[SC] = myGenTdrssSC (userCode,upSamp,zeroOne)

[t,ModOut] = myModGen (carFreq(Hz),fs(Hz),symRate(Hz),numData,BpskQpsk,StaggerQEnb)

**Plotting**

[freq,dataOut] = myFft (data,fs(Hz),numAvg,units,plotOn(0/1))

[freq,dataOut] = myFft 0toFs (data,fs(Hz),numAvg,units,plotOn(0/1))

[adjData] = myAdjDbc (data,numAvg,singleOrDouble)

[freq, sincOut] = mySinc (dataRate,units)

myPlotNTIALog(freq,amp,numAvg(for myAdjDbm),SymRate(Hz),k,units)

myPlotNTIA (freq,amp,numAvg(for myAdjDbm),SymRate(Hz),k,units,singleOrDouble)

myPlotSFCG (freq,amp,numAvg(for myAdjDbm),SymRate(Hz),units)

myPlotPerBW (freq,amp,perBW,numAvg(for myAdjDbm),SymRate(in ‘units’),units)

myPlotSigPwr (data,fs(Hz))

**Import/Export**

myDump2Excel (data,fileName,startColumn,startRow,sheet,rowColumnMatrix)

myDump2Text (data,txtFile)

**Hardware**

myFindResistor (resValue,tolerance)

myResDivider (vIn,vOut,tolerance)

myCompAging (TimeData,TimeNew,TempData,TempNew,ToleranceData,component)

myCalcAcCoupling(bitRate(Hz),loadR(ohms),numConsBits,riseTime(ps))

**Simulation**

[ber, numBits] = bertooltemplate (EbNo, maxNumErrs, maxNumBits)

[sinOut] = myDdsSim (numPts,fs,fNCO,numBitsNCO,cordicStages,numBitsXY,numBitsAngle,fsPerJitterRMS)

[x,y] = myCordicRotate (angle,stages,numBitsXY,numBitsAngle)

**Misc**

myPrintStats (data,bins)

myTestRound (data,ExpMean)

myXmtDataParams (dataI,dataQ,symbRate(Hz),fs(Hz))

[jitterTot] = myCalcPhaseNoise(carFreq,freqOffset,phaseNoise)