Simulation setup

Var Eqn	VAR

VAR1

Kv=50 kHz
Bits=1000
RF_Freq=2.44 GHz
VL=-1 V
VH=1 V
Sample_Rate=40 kHz
Samps_per_Sym=20
TStep=1/(Samps_per_Sym*Sample_Rate)
TStop=Bits/Sample_Rate
PA_Gain=20
Channel_Loss=-40*log(h/R) - 3.01
LNA_Gain=10 + 3.01
BB_Gain=40

Var Eqn	VAR

VAR2

R=100
h=1

Var Eqn	VAR

VAR3

Noise=1287

ENVELOPE

Envelope
Env1
Freq[1]=RF_Freq
Order[1]=2
Stop=TStop
Step=TStep

PARAMETER SWEEP

ParamSweep
Sweep1
SweepVar="R"
Start=40
Stop=800
Step=40