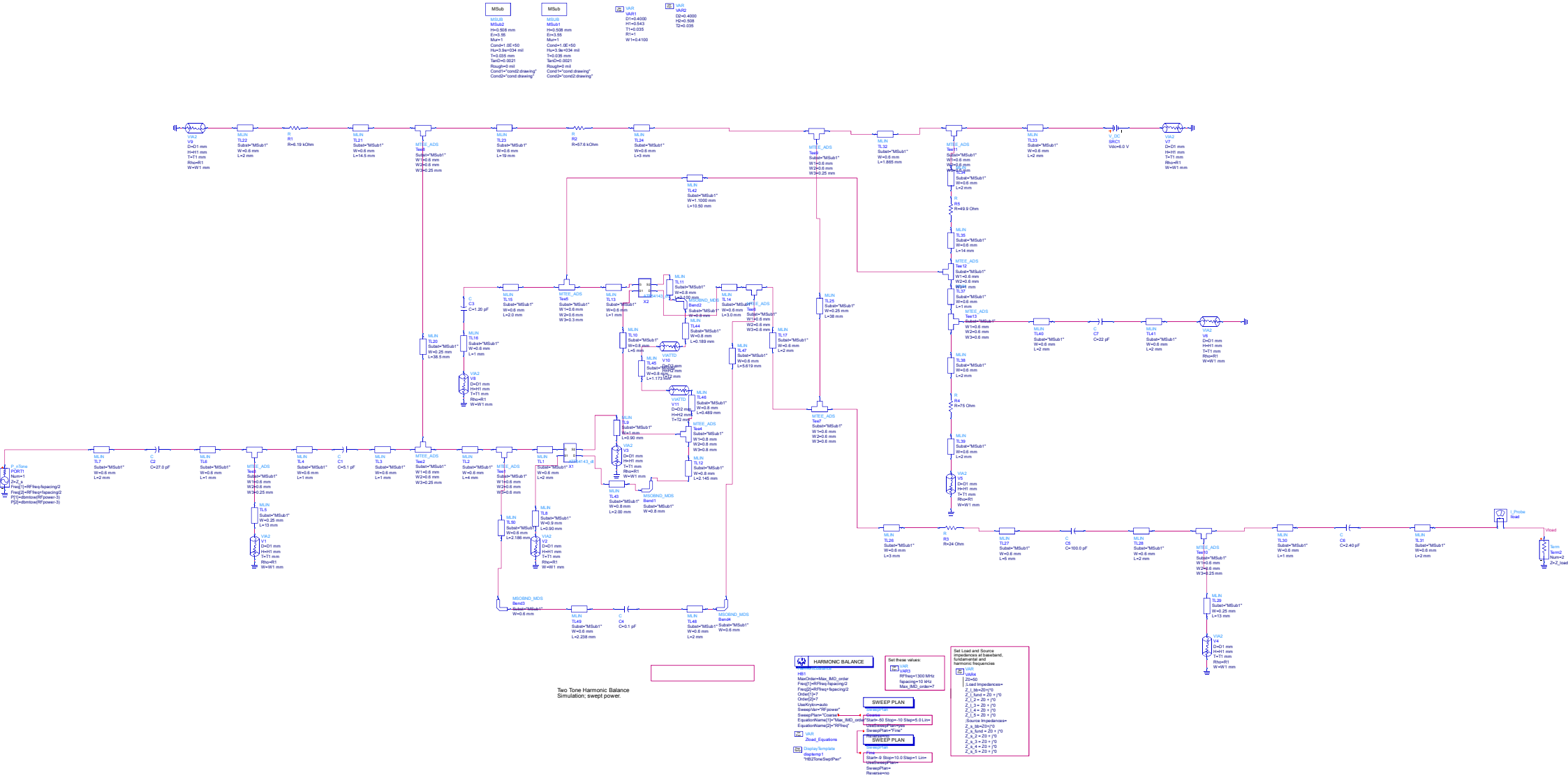
MSub
MSUB
MSub2
H=0.508 mm
Er=3.55
Mur=1
Cond=1.0E+50
Hu=3.9e+034 mil
T=0.035 mm
TanD=0.0021
Rough=0 mil
Cond1="cond2:drawing"
Cond2="cond:drawing"
MSub
MSUB
MSub1
H=0.508 mm
Er=3.55
Mur=1
Cond=1.0E+50
Hu=3.9e+034 mil
T=0.035 mm
TanD=0.0021
Rough=0 mil
Cond1="cond:drawing"
Cond2="cond2:drawing"
VAR
VAR1
D1=0.4000
H1=0.543
T1=0.035
R1=1
W1=0.4100
VAR
VAR2
D2=0.4000
H2=0.508
T2=0.035
HARMONIC BALANCE
HB1
MaxOrder=Max_IMD_order
Freq[1]=RFfreq-fspacing/2
Freq[2]=RFfreq+fspacing/2
Order[1]=7
Order[2]=7
UseKrylov=auto
SweepVar="RFpower"
SweepPlan="Coarse:k"
EquationName[1]="Max_IMD_order"
EquationName[2]="RFfreq"
VAR
2load_Equations
Display Template
displaytmp1
"HB2ToneSweptPwr"
Set these values:
VAR
VAR3
RFfreq=1300 MHz
fspacing=10 kHz
Max_IMD_order=7
SWEEP PLAN
SweepPlan
Start=-50 Stop=-10 Step=5.0 Lin
UseSweepPlanHere
SweepPlan="Fine"
SWEEP PLAN
SweepPlan
Start=-9 Stop=10.0 Step=1 Lin
UseSweepPlanHere
SweepPlan=
Reverse=no
Set Load and Source impedances at baseband, fundamental and harmonic frequencies
VAR
Zdefs
Z0=50
:Load Impedances=
Z_l_bb=Z0+j*0
Z_l_fund = Z0 + j*0
Z_l_2 = Z0 + j*0
Z_l_3 = Z0 + j*0
Z_l_4 = Z0 + j*0
Z_l_5 = Z0 + j*0
:Source Impedances=
Z_s_bb=Z0+j*0
Z_s_fund = Z0 + j*0
Z_s_2 = Z0 + j*0
Z_s_3 = Z0 + j*0
Z_s_4 = Z0 + j*0
Z_s_5 = Z0 + j*0
Two Tone Harmonic Balance
Simulation; swept power.