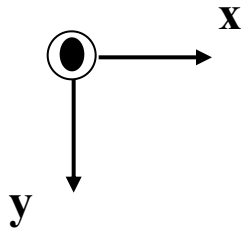


# **PCB Antenna Simulation**

# PCB Antenna pattern



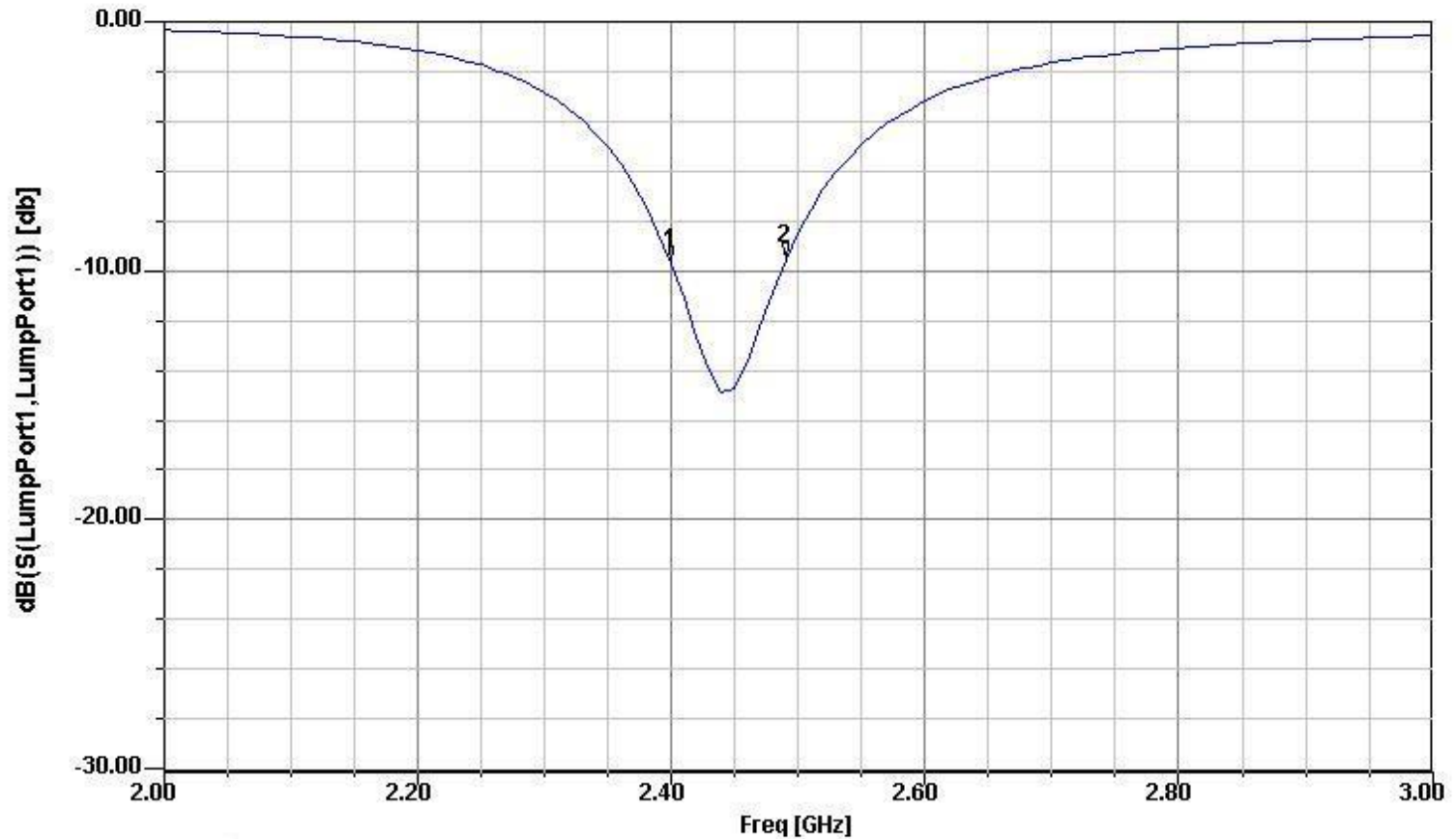
X:17mm

# PCB Antenna Simulation

## (S11)

Ansoft Corporation  
XY Plot 1  
HFSSDesign1

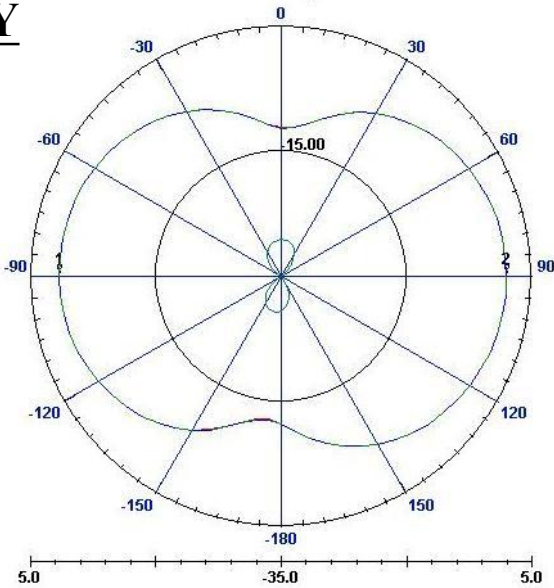
**BW(RL<10dB): 90 MHz**



X1= 2.40GHz	X2= 2.49GHz
Y1= -9.70	Y2= -9.58

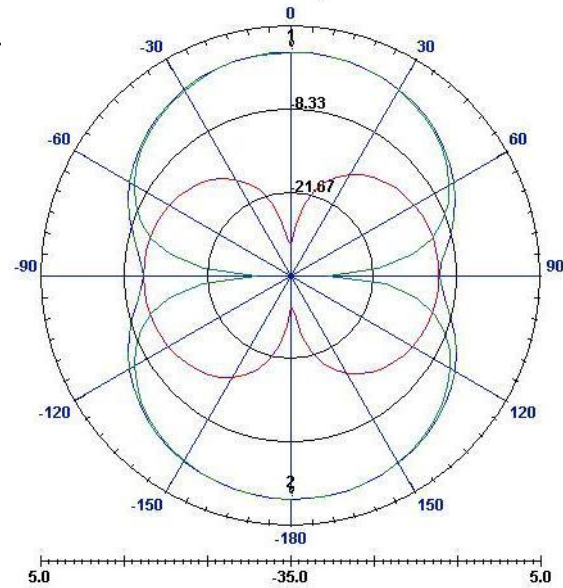
# PCB Antenna Simulation (Radiation)

XY



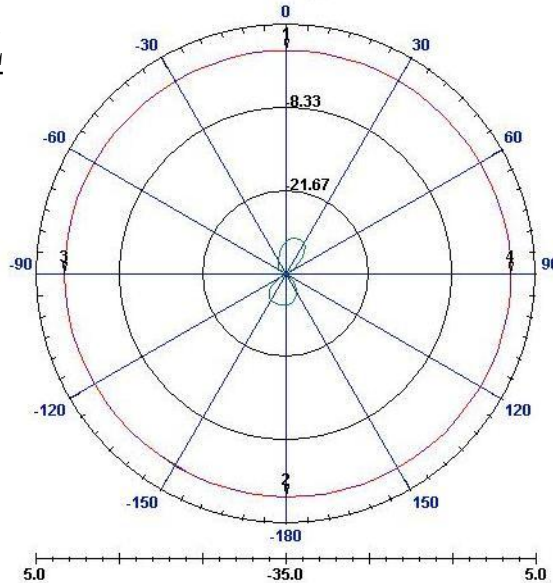
M1= 0.458 P1= 270.000 270.000deg
M2= 0.944 P2= 90.000 90.000deg

XZ



M1= 0.753 P1= 0.000 0.000deg
M2= 0.655 P2= 180.000 180.000deg

YZ



M1= 0.753 P1= 360.000 360.000deg
M2= 0.655 P2= 180.000 180.000deg
M3= 0.458 P3= 270.000 270.000deg
M4= 0.944 P4= 90.000 90.000deg

**Efficiency: 76%**

**Avg. Gain: -1.2 dBi**