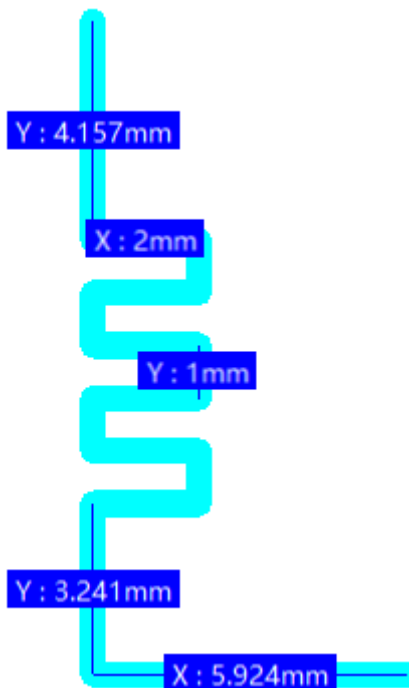
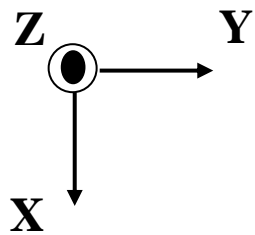


PCB Antenna Simulation

PCB Antenna pattern

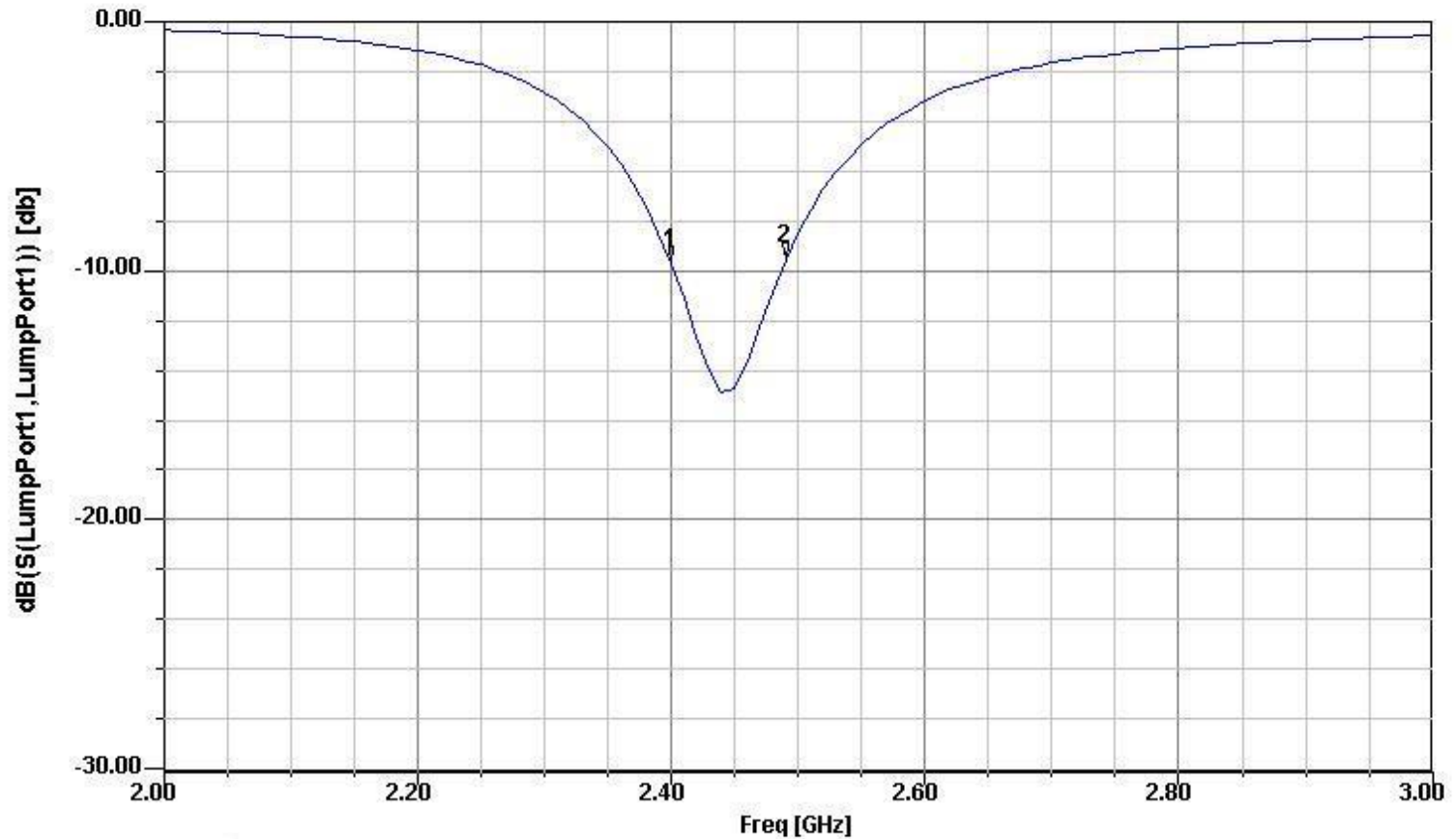


PCB Antenna Simulation

(S11)

Ansoft Corporation
XY Plot 1
HFSSDesign1

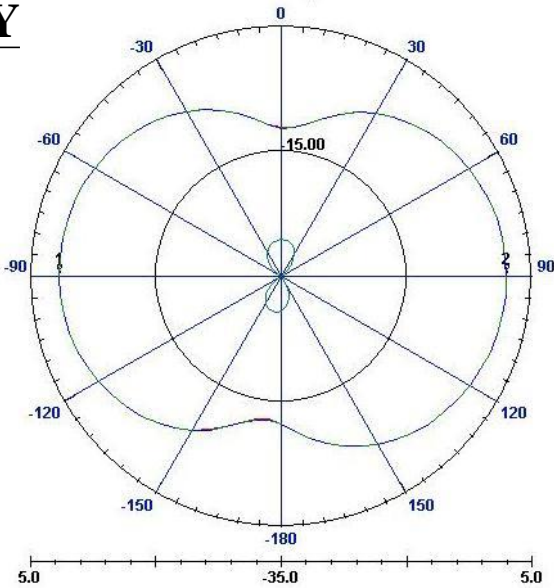
BW(RL<10dB) : 90 MHz



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

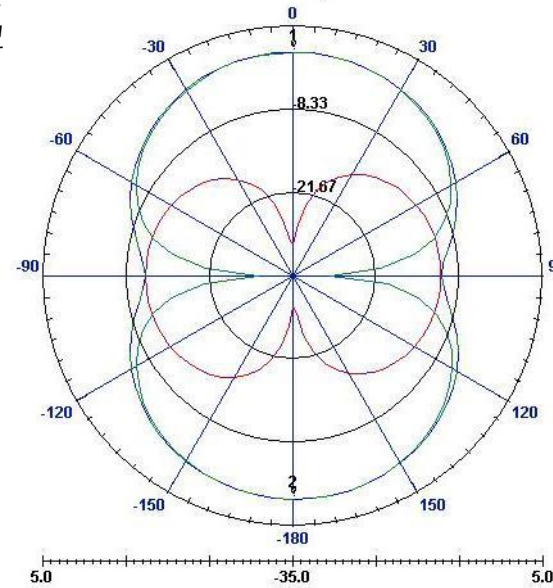
PCB Antenna Simulation (Radiation)

XY



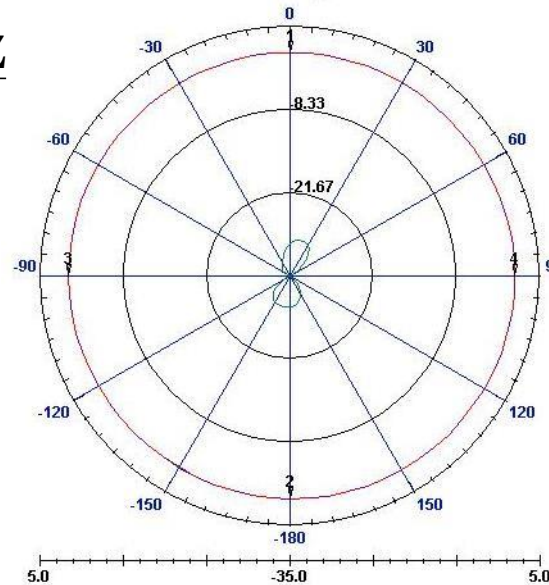
M1= 0.458 P1= 270.000 270.000deg
M2= 0.944 P2= 90.000 90.000deg

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