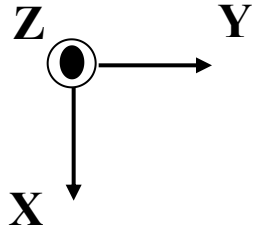
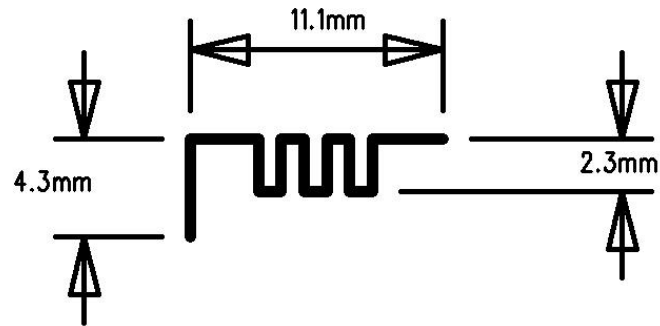


PCB Antenna Simulation

PCB Antenna pattern



ITEM	SPE.
MAX.GAIN	1.5dBi
Polarization	Horizontal
Azimuth Beam Pattern	Omni-directional
Impedance	50 Ω
Antenna Length	2.92CM

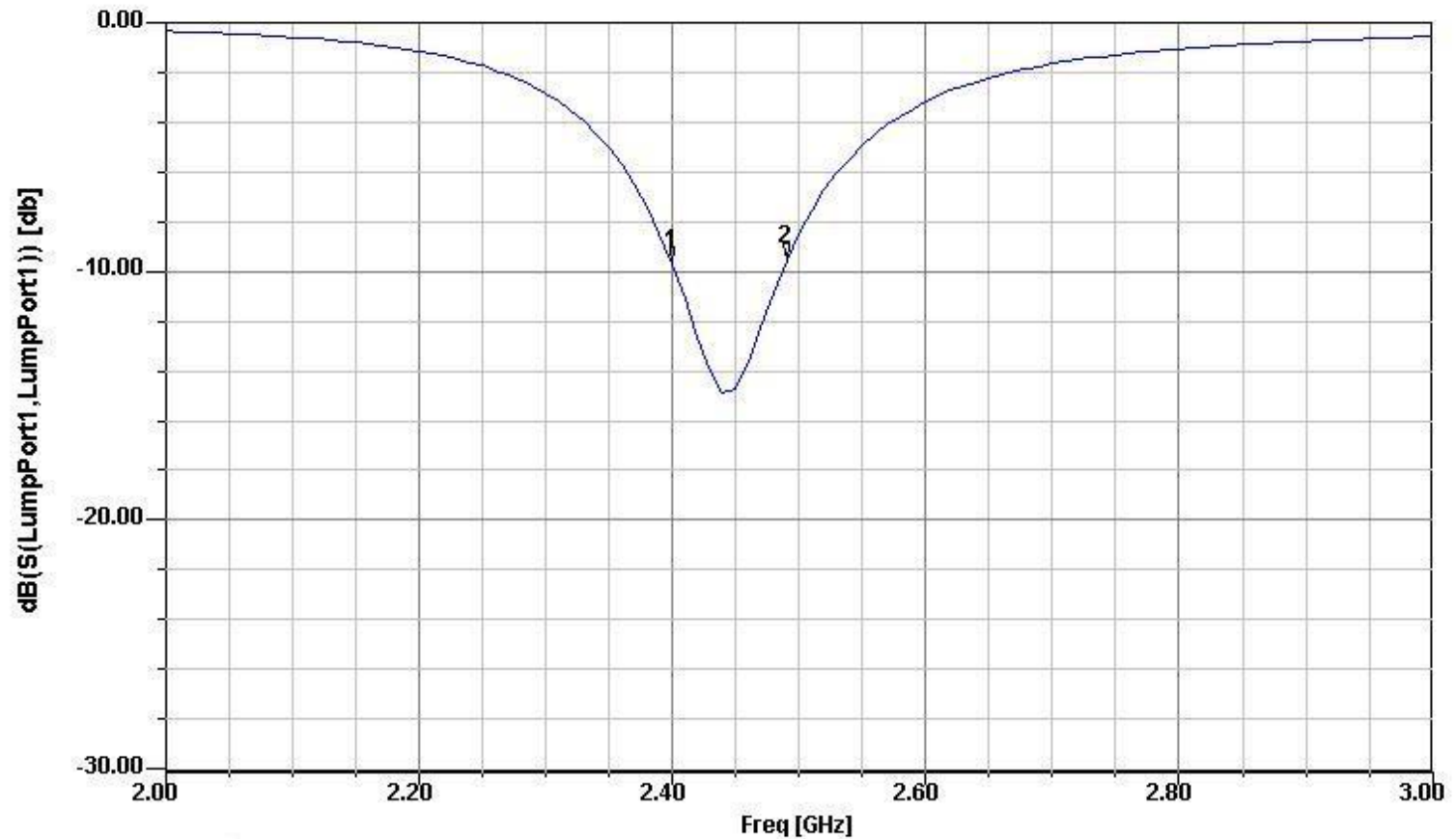


PCB Antenna Simulation

(S11)

Ansoft Corporation
XY Plot 1
HFSSDesign1

BW(RL<10dB): 90 MHz

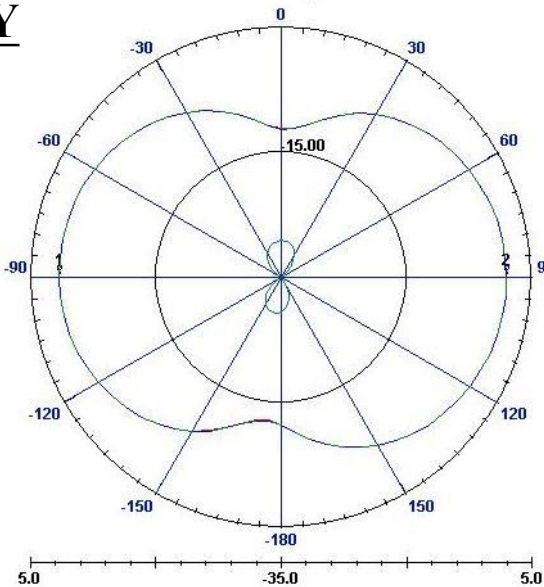


X1= 2.40GHz	X2= 2.49GHz
Y1= -9.70	Y2= -9.58

PCB Antenna Simulation

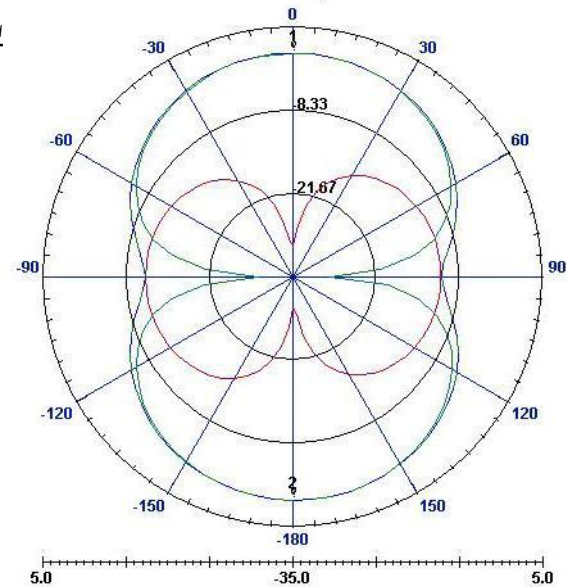
(Radiation)

XY



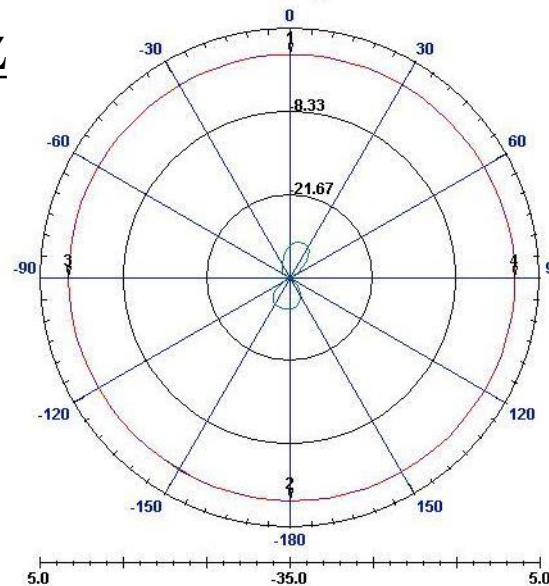
M1= 0.458 P1= 270.000 270.000deg
M2= 0.944 P2= 90.000 90.000deg

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%

MAX.Gain:1.5dBi

Avg. Gain: -1.2 dBi Min. Gain: -30.7 dBi