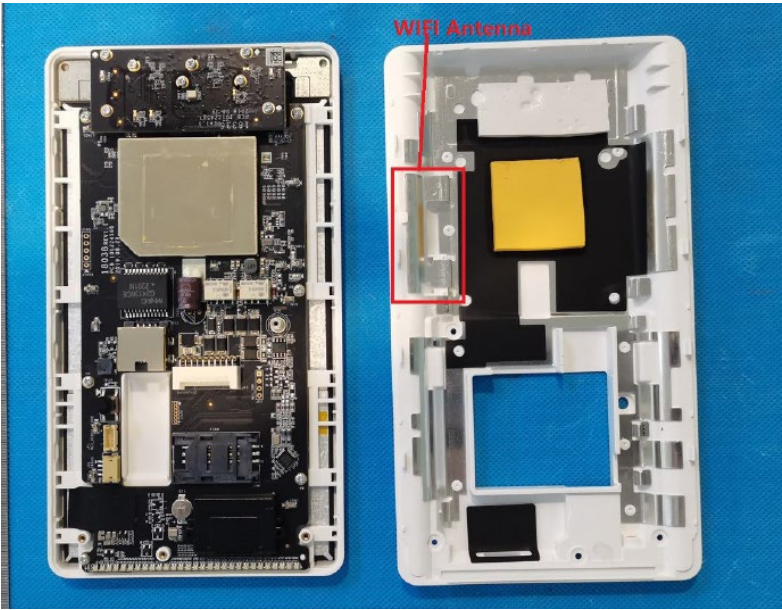


Antenna Specification

1. Antenna Photo



2. Antenna Technical Parameters and Interface

Design Specifications	Typical	Units
Form	Integral Antenna	\
Frequency	2400-2500	MHz
Gain	High channel: -1.7	dBi
	Medium channel: -2.93	dBi
	Low channel: -3.93	dBi
Antenna Efficiency	13.64	%
VSWR	< 10	\
Polarization	Linear Polarization	\
Axial Ratio	\	\
Radiation pattern	Omnibearing	\
impedance	50	ohm
Power handling	33	dBm
Interface	\	\
Overall dimensions	23mm*11mm	\
Weight	\	\
Operation Temp.	-30-70	°C
Storing Temp.	-30-70	°C

3. Antenna Test Conditions

3.1 Test Equipment

Antenna Vector Network Analyzer ROHDE&SCHWARZ ZNB 20

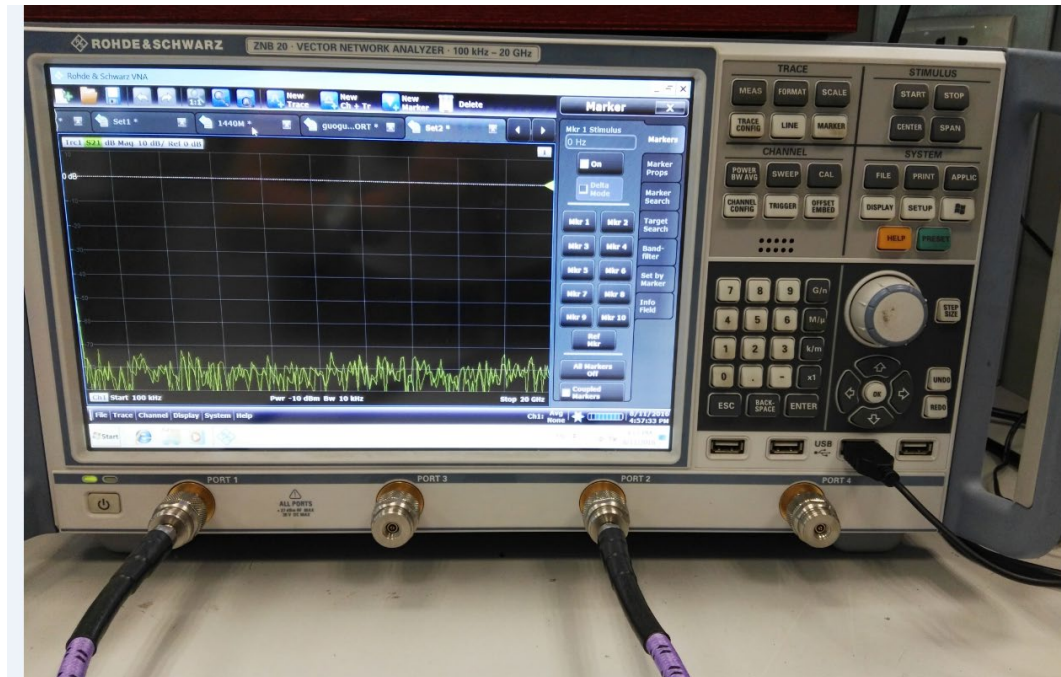


Figure 2.Vector Network Analyzer

3.2 Test Result

Return Loss (S_{11})



Figure 4.Return Loss

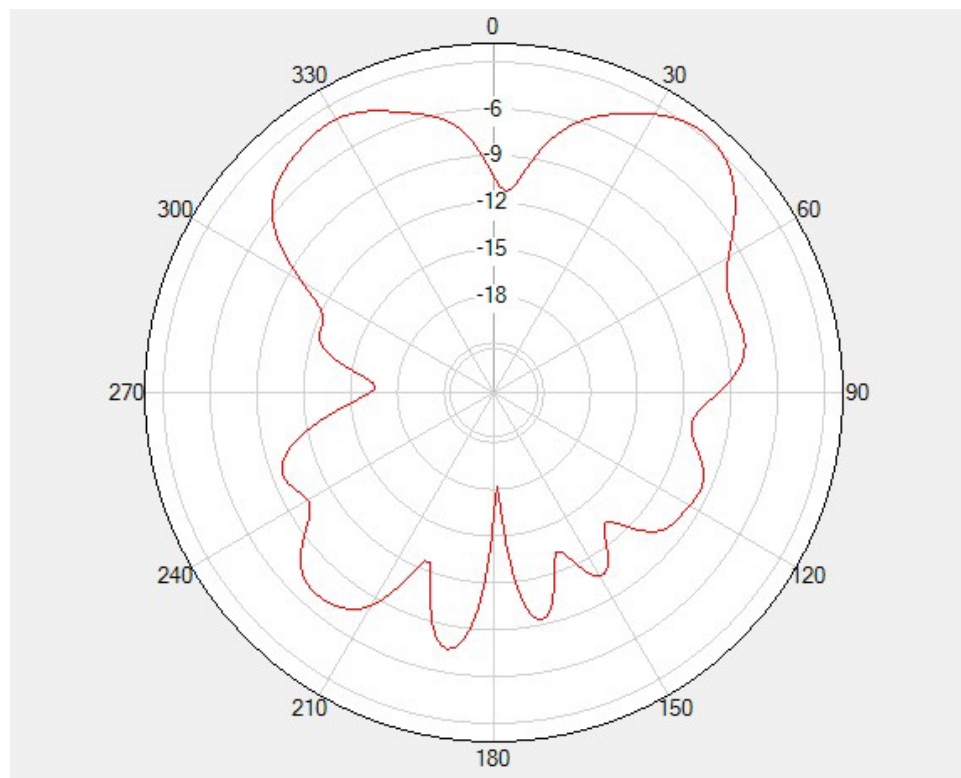
The yellow curve in the figure above shows that the antenna syntony is realized well, and the resistance condition matches well.

Antenna Efficiency

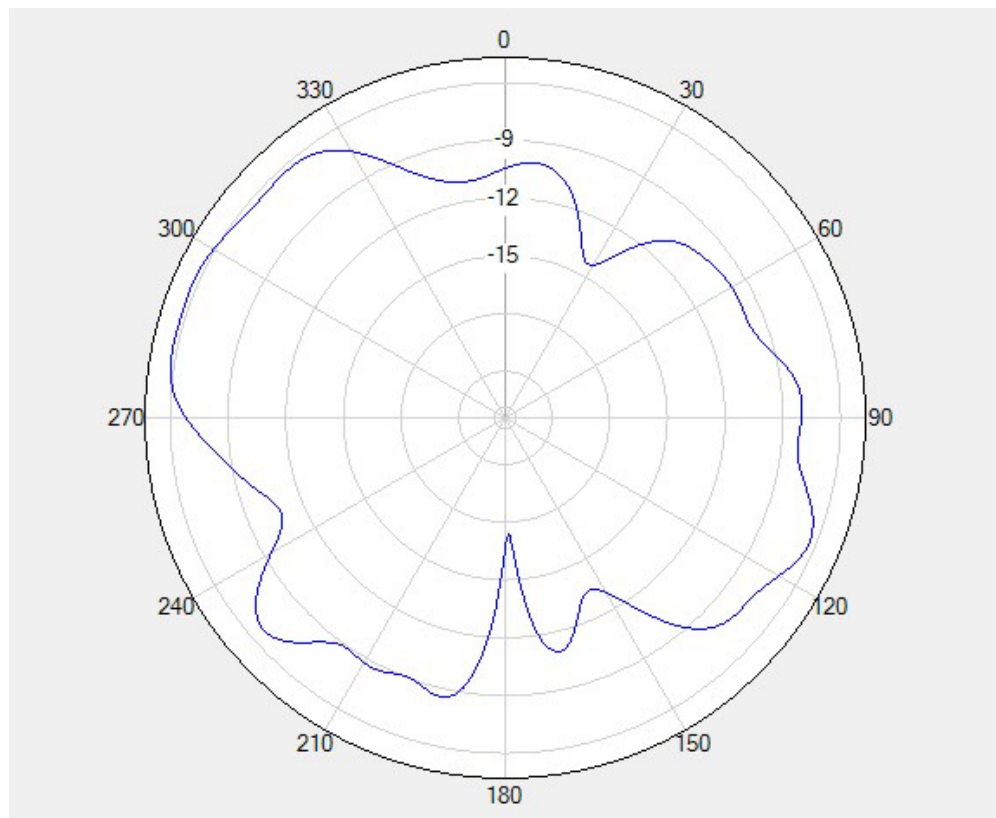
Frequency /MHz	Efficiency /%
2400	16.10
2410	16.19
2420	16.10
2430	15.68
2440	15.05
2450	13.81
2460	12.78
2470	11.99
2480	11.27
2490	10.55
2500	10.50

Antenna 2D Radiation Pattern

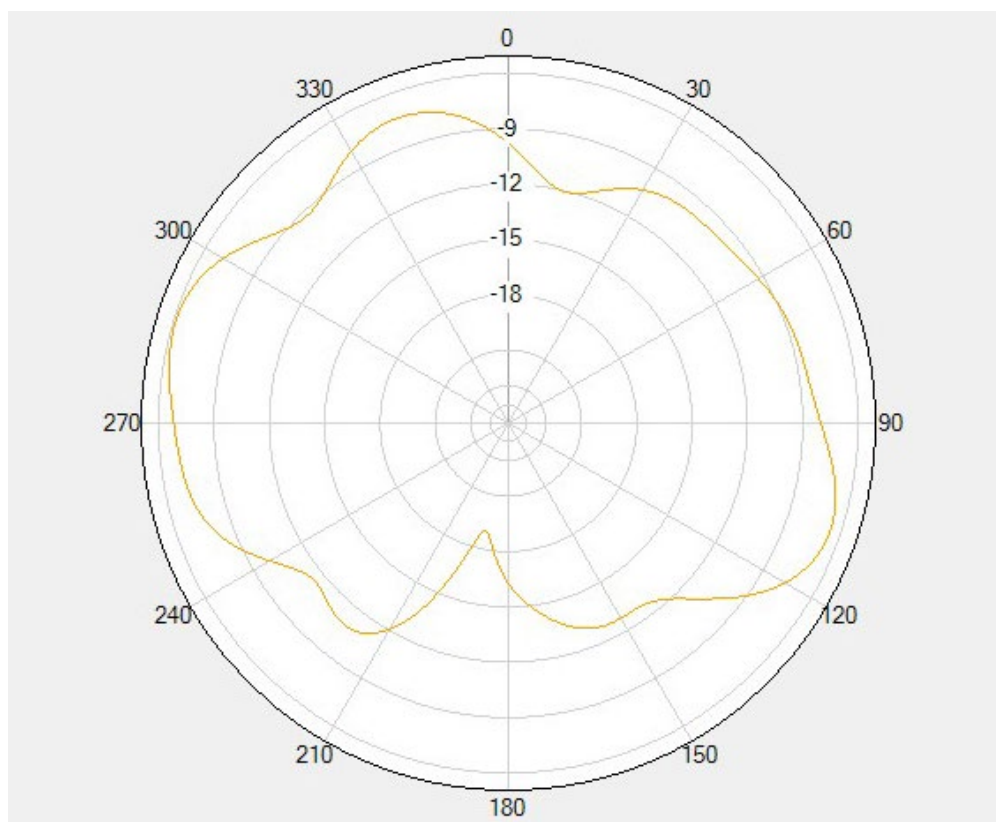
2400MHz:



Phi=0 deg

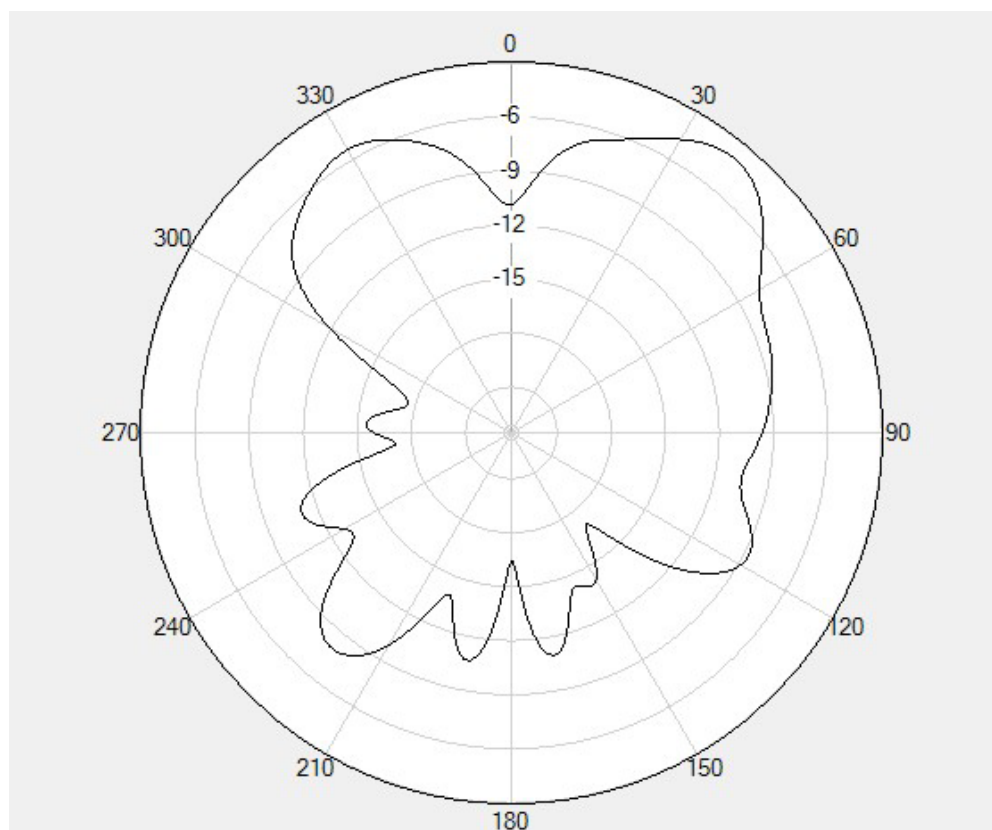


Phi=90 deg

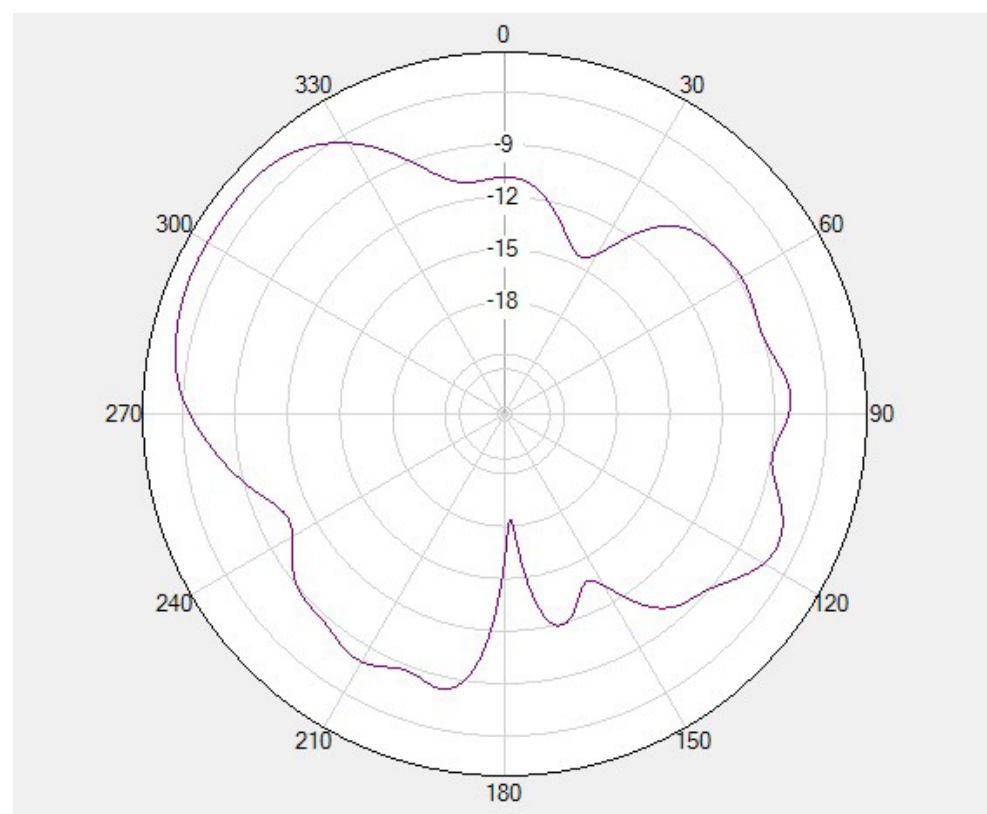


Theta=90 deg

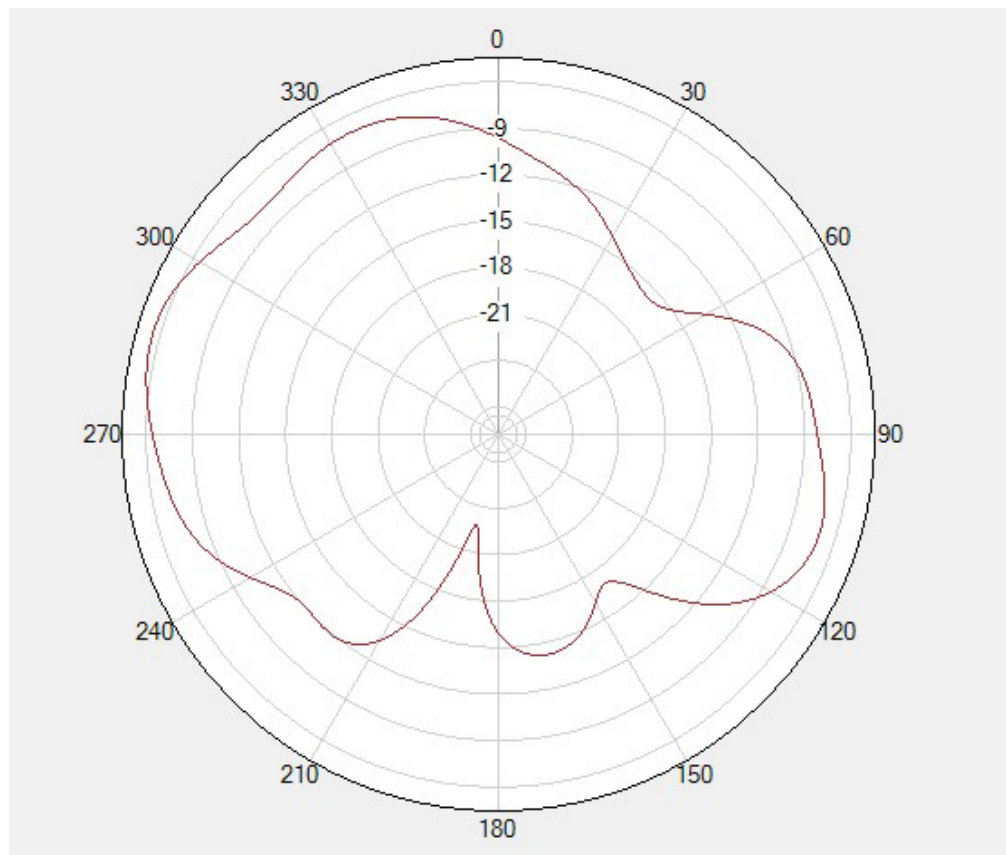
2450MHz:



Phi=0 deg

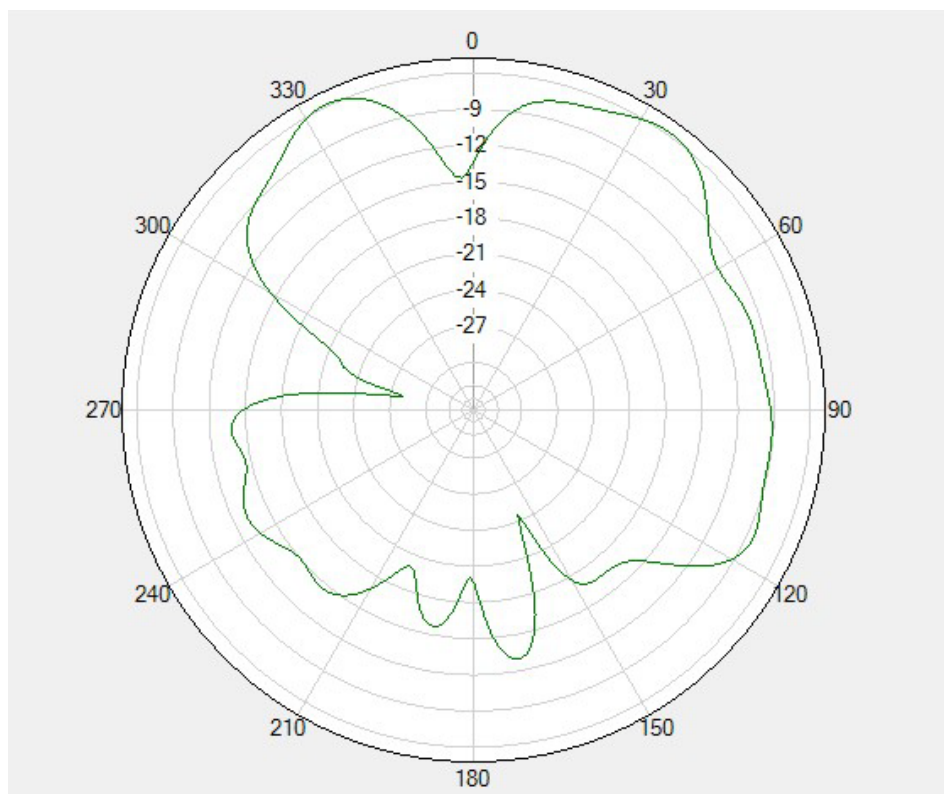


Phi=90 deg

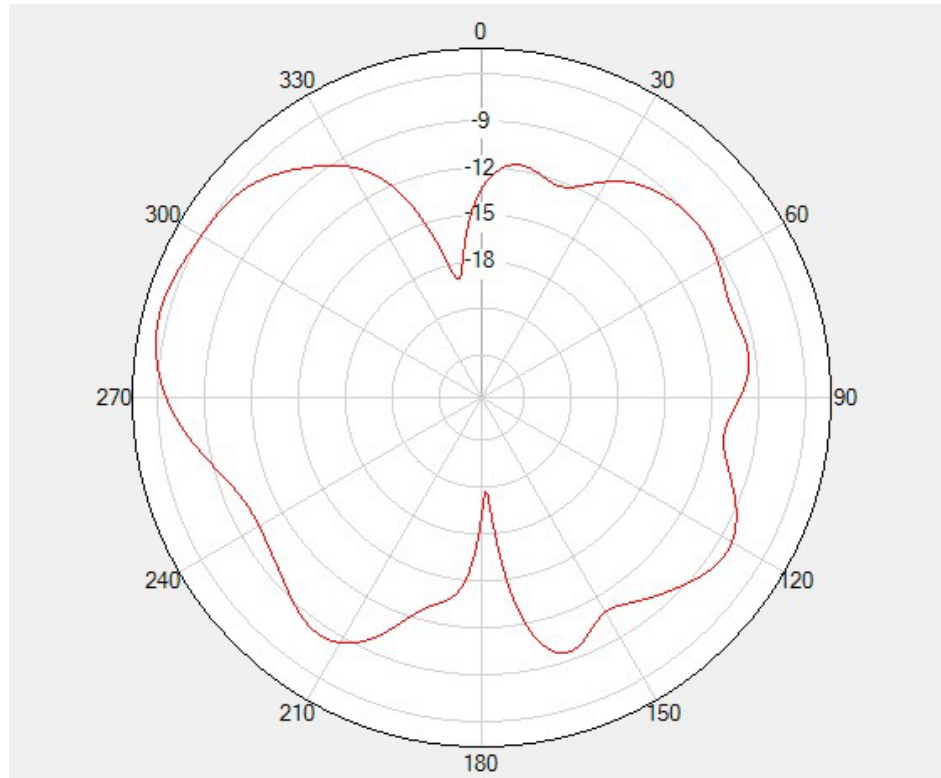


Theta=90 deg

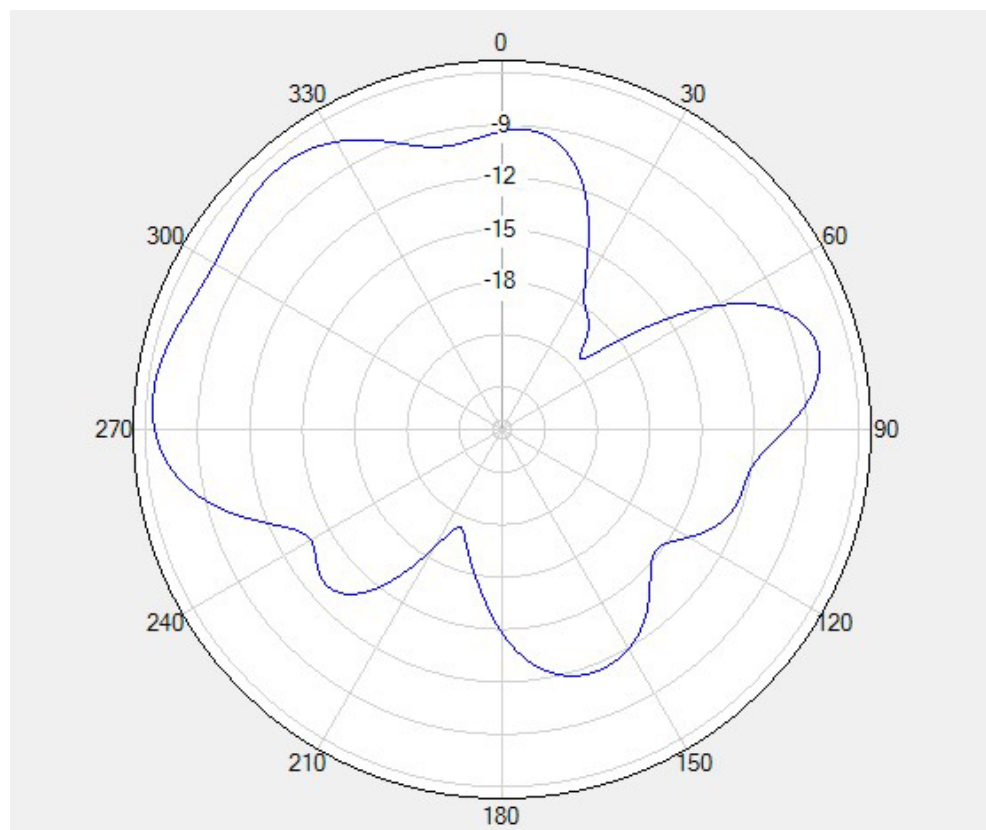
2500MHz:



Phi=0 deg



Phi=90 deg



Theta=90 deg