

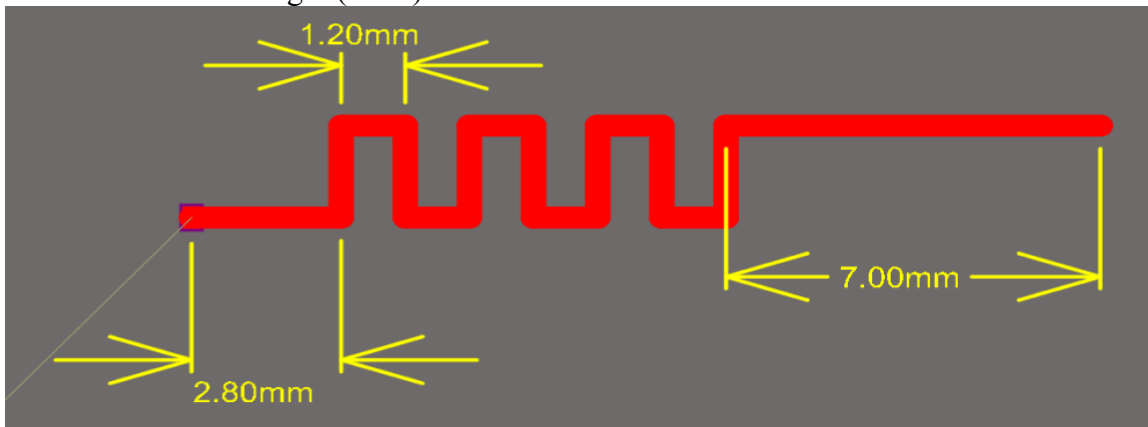
# Antenna Specification

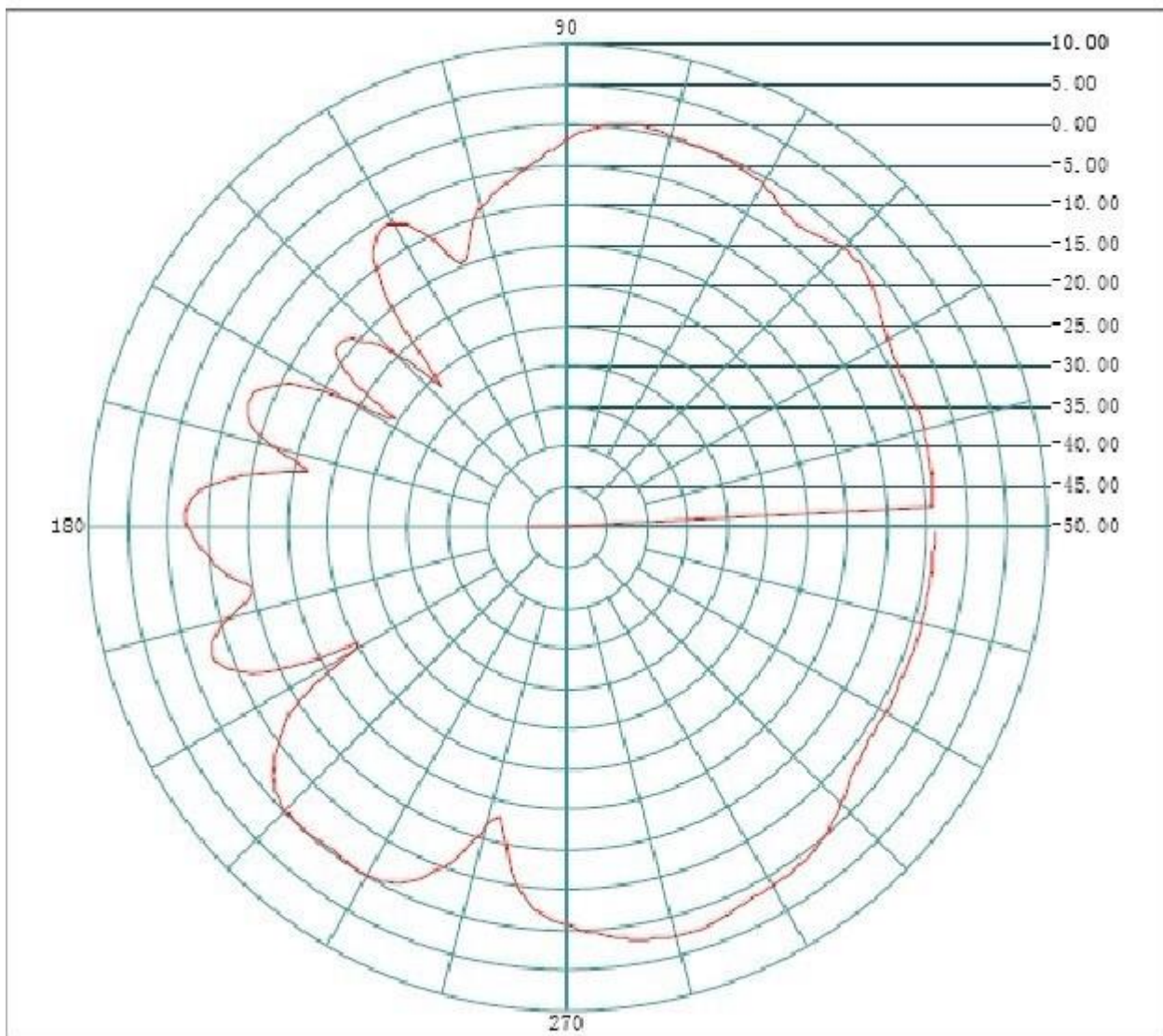
## Specifications

### Summary

ITEM	SPEC.	
Model Name	IBM 2.4 GHz	
Center Frequency	2402 MHz	2.34dBi
	2441 MHz	2.07dBi
	2480 MHz	1.45dBi
MAX. GAIN	2.34 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 $\Omega$	
Antenna Length	3.1 cm	

Antenna Photo & Length ( mm )





<b>Test Address</b>	<b>16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303 , Taiwan</b>
<b>Test Date</b>	<b>2019-10-11</b>
<b>Test Instrument</b>	<b>vector network analyzer - R&amp;S ZVB20</b>

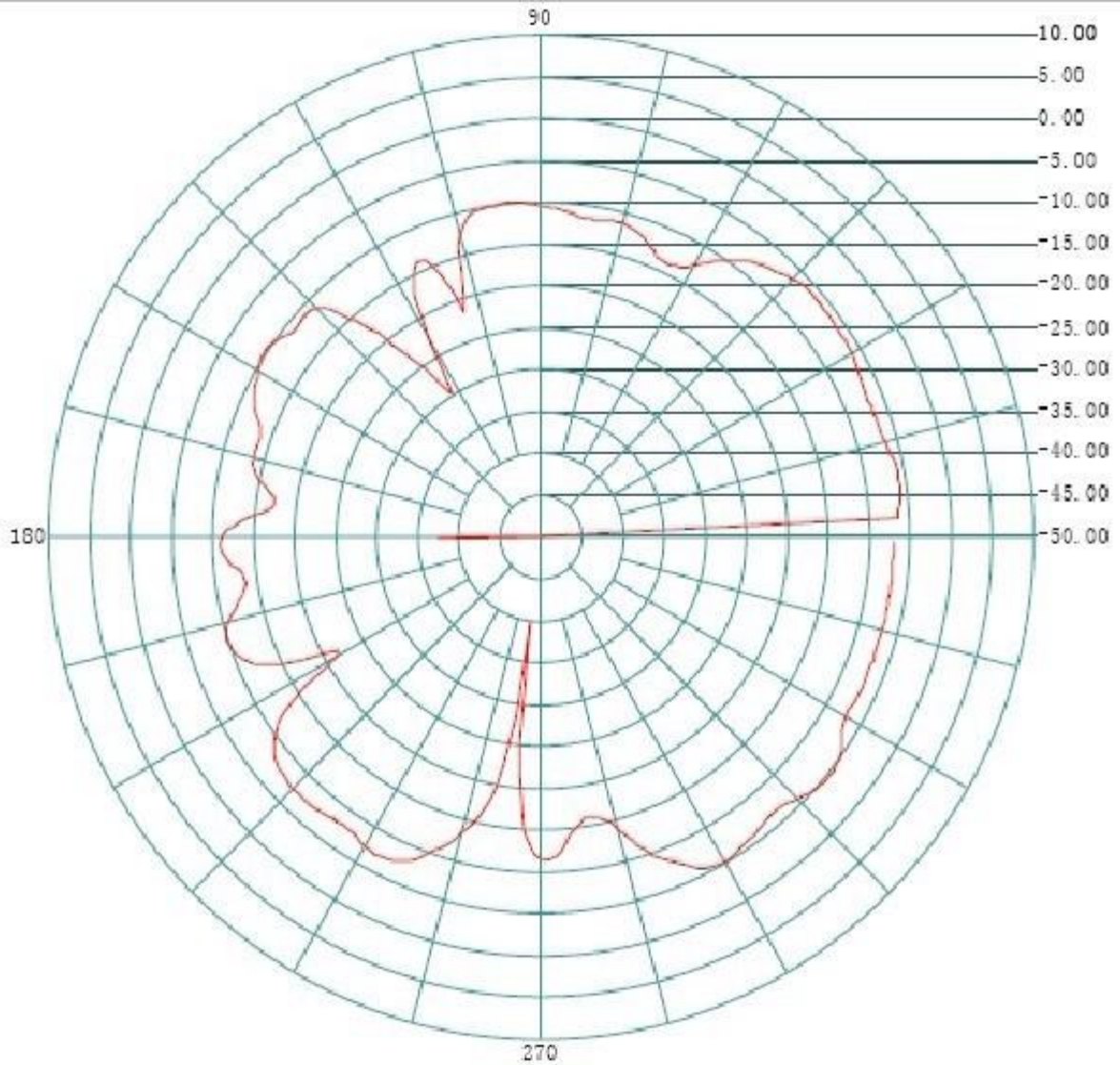
**1. Main antenna : 2402 MHz**

### **1.1 Horizontal**

Frequency(MHZ): **2402** Antenna Polarity: **Horizontal**

Maximum Value(dBi): **2.34**

Average Gain(dBi) : **-2.48**



Minimum Gain(dBi): **-55.18**

**1.2 Vertical**

Frequency(MHZ): **2402** Antenna Polarity: **Vertical**

Maximum Value(dBi): **-4.51**

Average Gain(dBi) : **-8.98**

Minimum Gain(dBi): **-62.3**

**2. Main antenna : 2441 MHz**

**2.1 Horizontal**

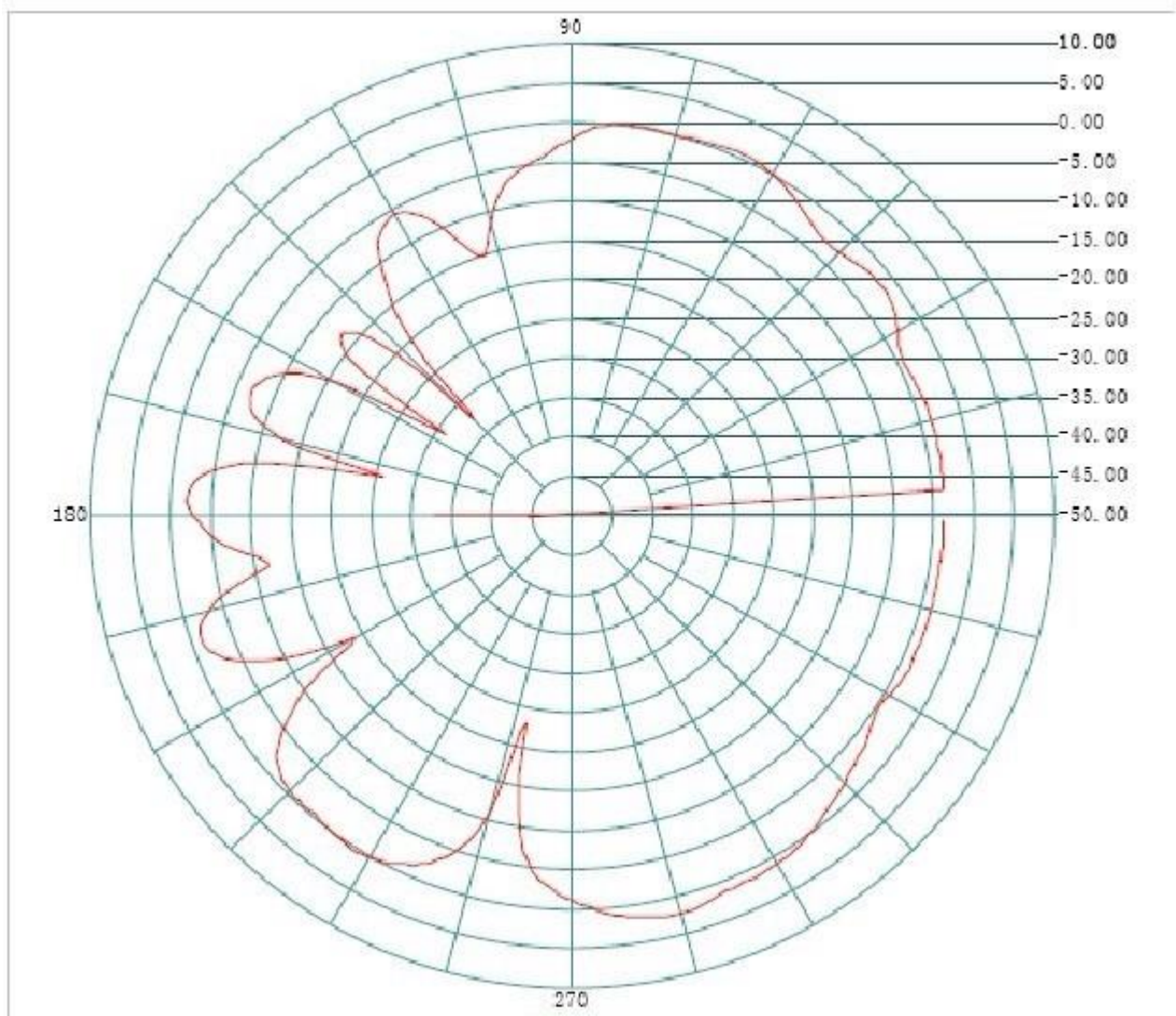
Frequency(MHZ): **2441** Antenna Polarity: **Horizontal**

Maximum Value(dBi): 2.07

Average Gain(dBi) : **-2.54**

Minimum Gain(dBi): **-66.98**

**2.2 Vertical**



Frequency(MHZ): **2441** Antenna Polarity: **Vertical**

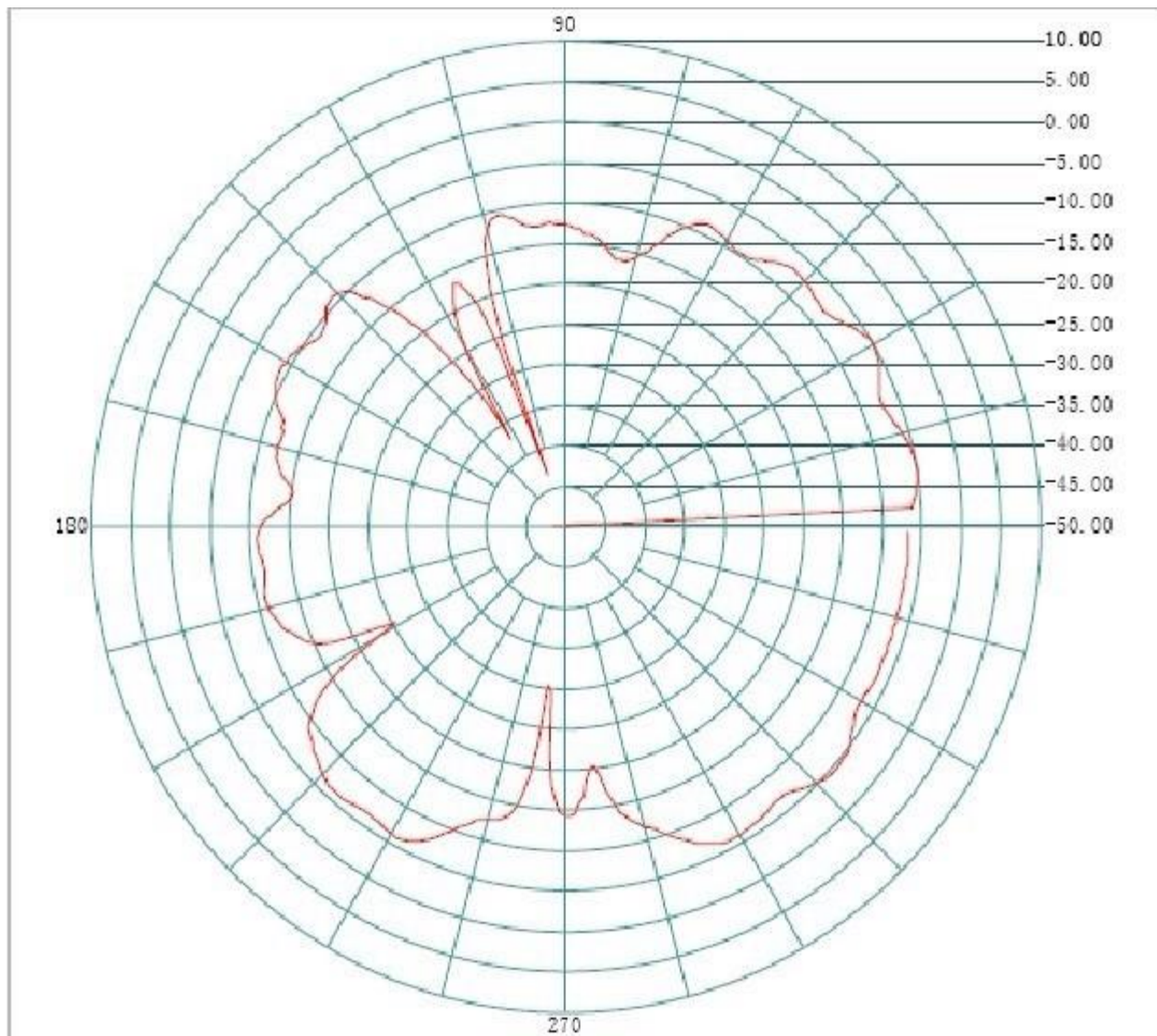
Maximum Value(dBi): **-4.29**

Average Gain(dBi) : **-8.81**

Minimum Gain(dBi): **-51.4**

**2. Main antenna : 2480 MHz**

**2.1 Horizontal**



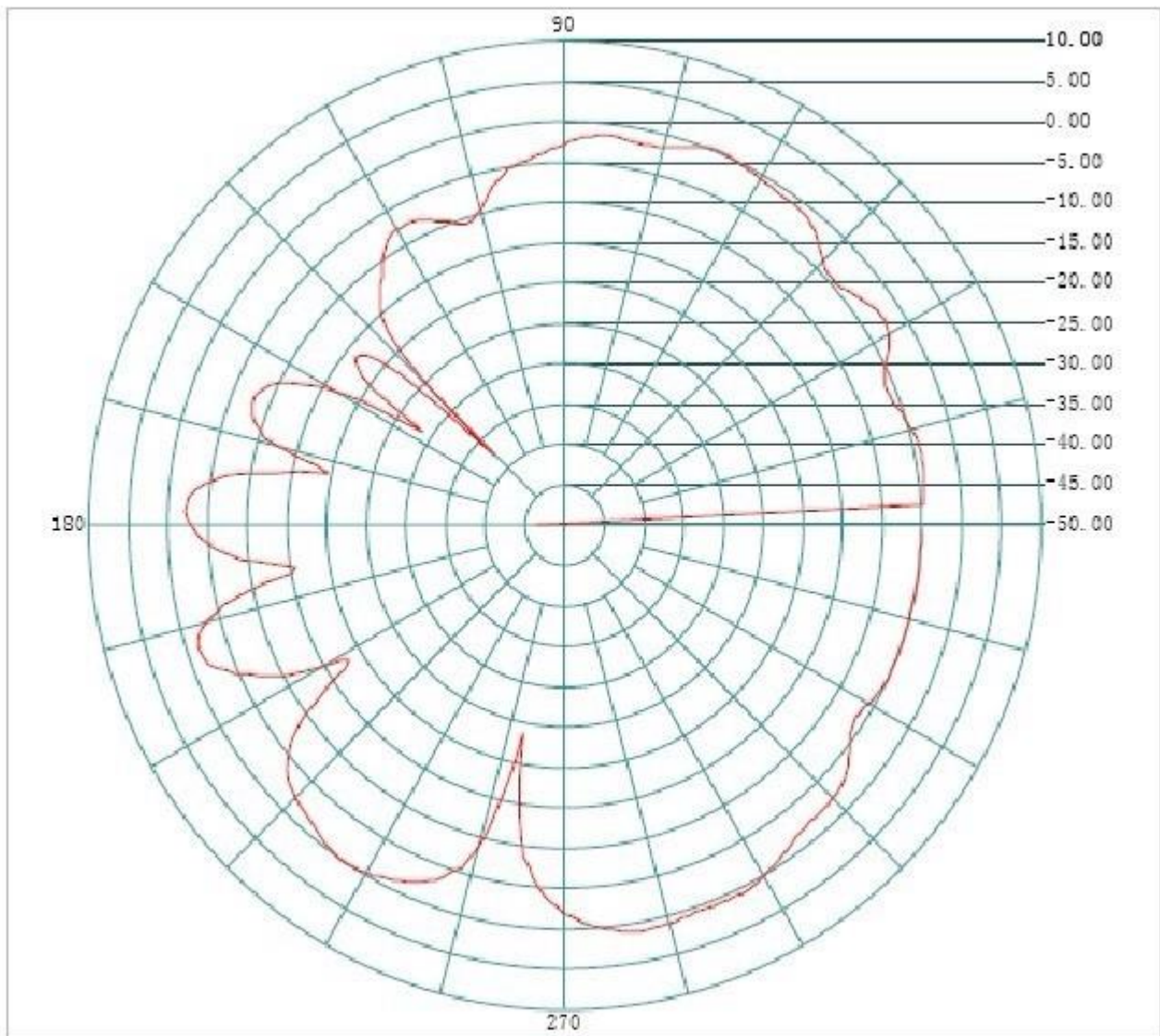
Frequency(MHZ): **2480** Antenna Polarity: **Horizontal**

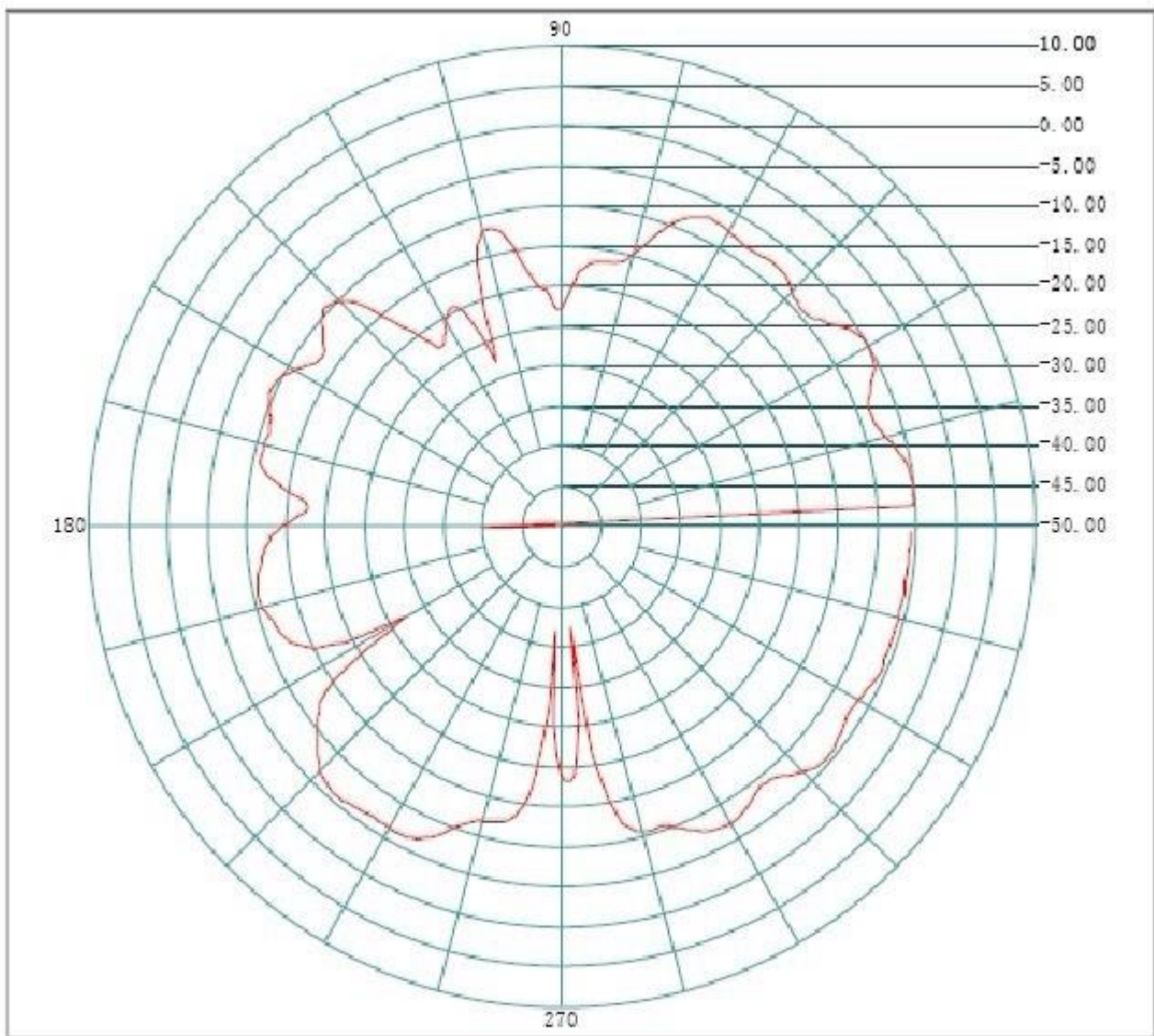
Maximum Value(dBi): **1.45**

Average Gain(dBi) : **-3.34**

Minimum Gain(dBi): **-53.4**

**2.2 Vertical**





Frequency(MHZ): **2480** Antenna Polarity: **Vertical**

Maximum Value(dBi): **-4.95**

Average Gain(dBi) : **-9.06**

Minimum Gain(dBi): **-60.00**