

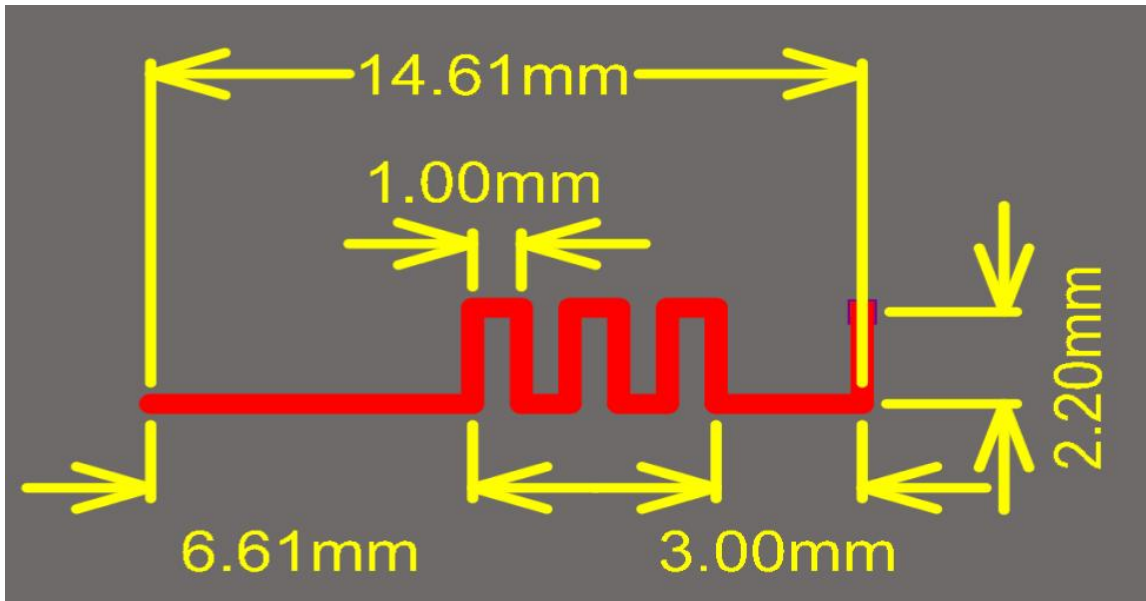
# Antenna Specification

## Specifications

### Summary

ITEM	SPEC.	
Antenna Type	PCB Antenna	
Center Frequency	2402 MHz 2441 MHz 2480 MHz	2.34 dBi 2.07 dBi 1.45 dBi
MAX. GAIN	2.34 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 $\Omega$	
Antenna Length	14.61 cm	
Model Name	MP8019	
manufacturer	B.O.W	

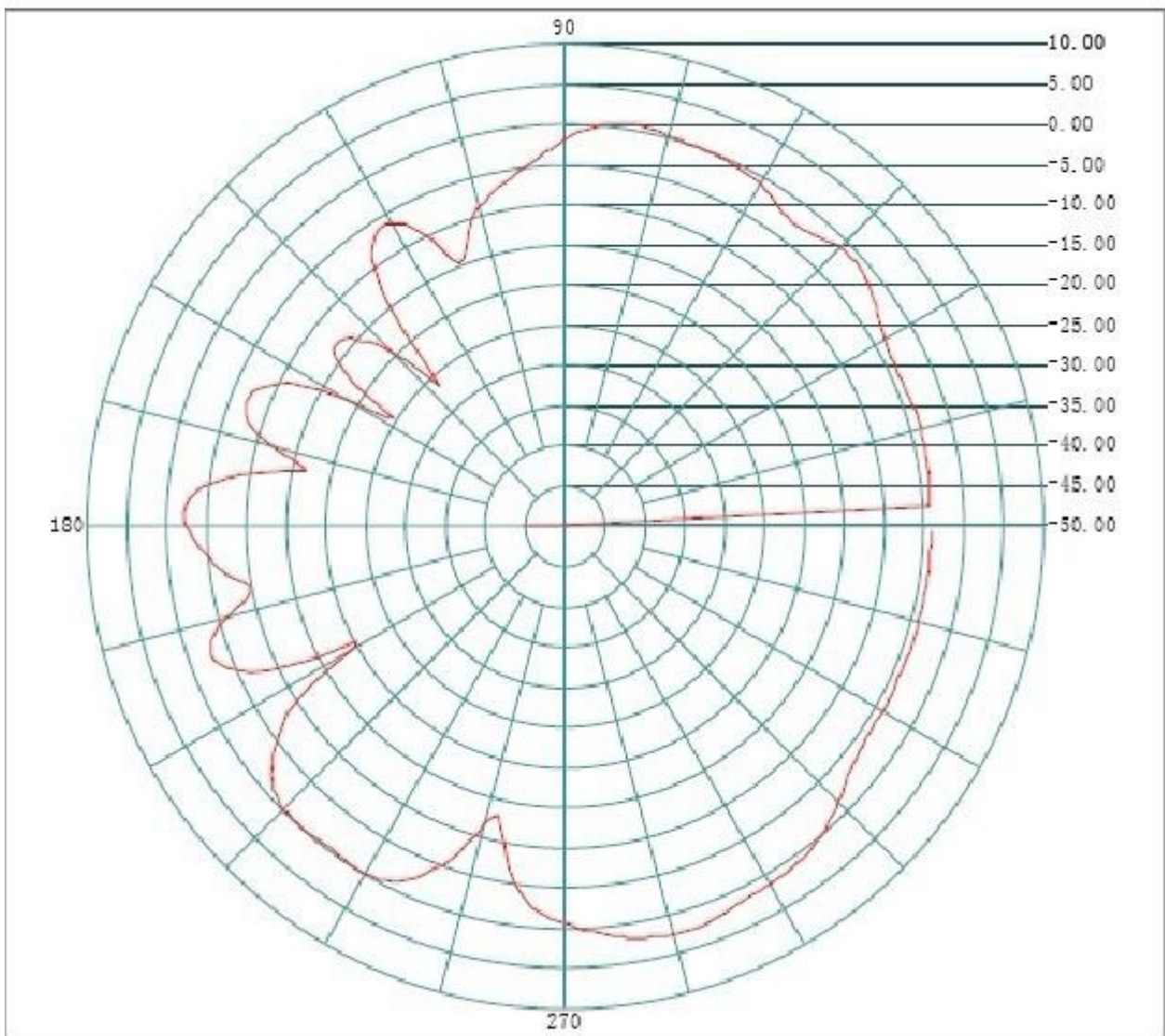
Antenna Photo & Length ( mm )



<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**

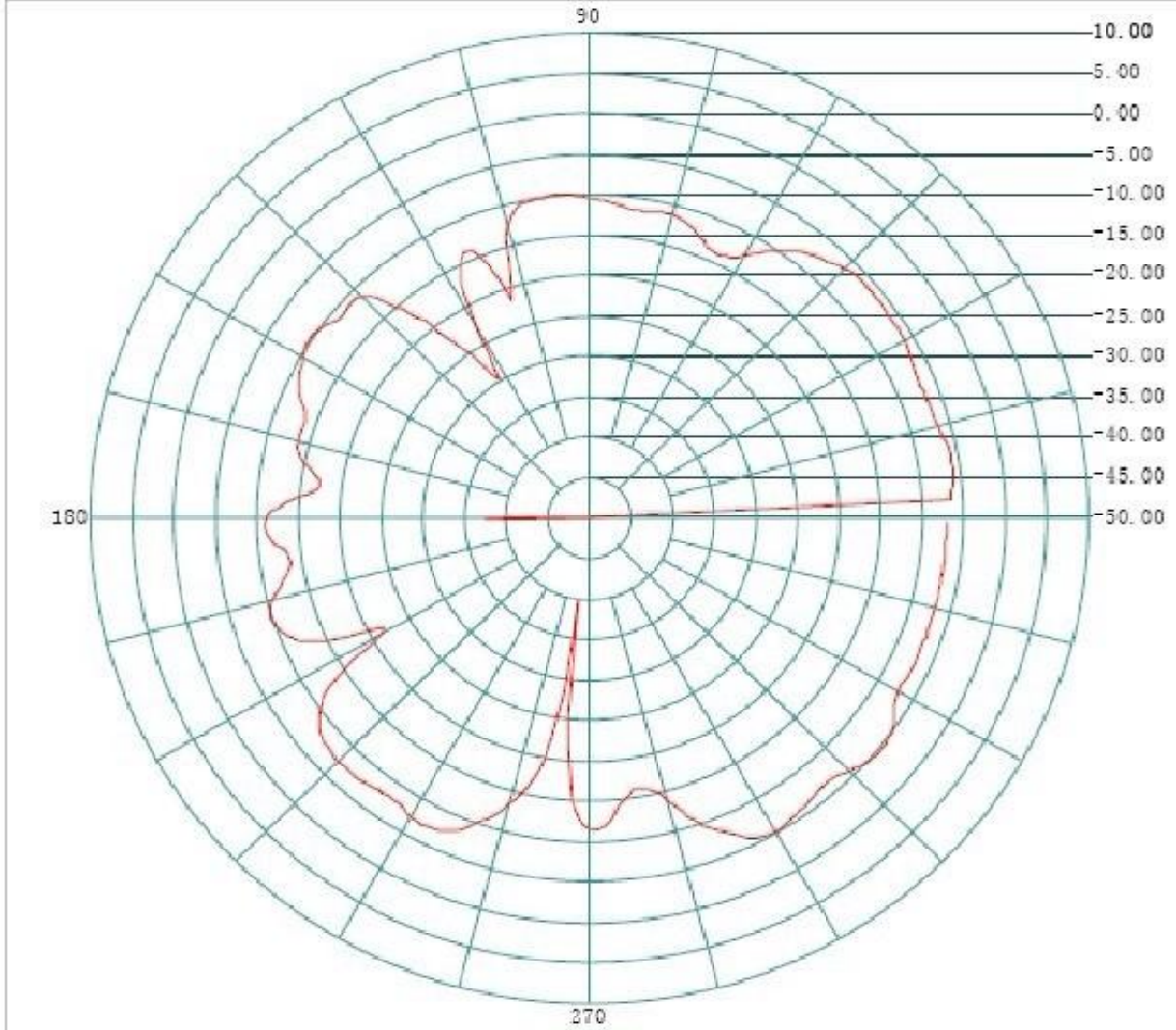


Frequency(MHZ): **2402** Antenna Polarity:  
**Horizontal**

Maximum Value(dBi): **2.34**

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

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



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

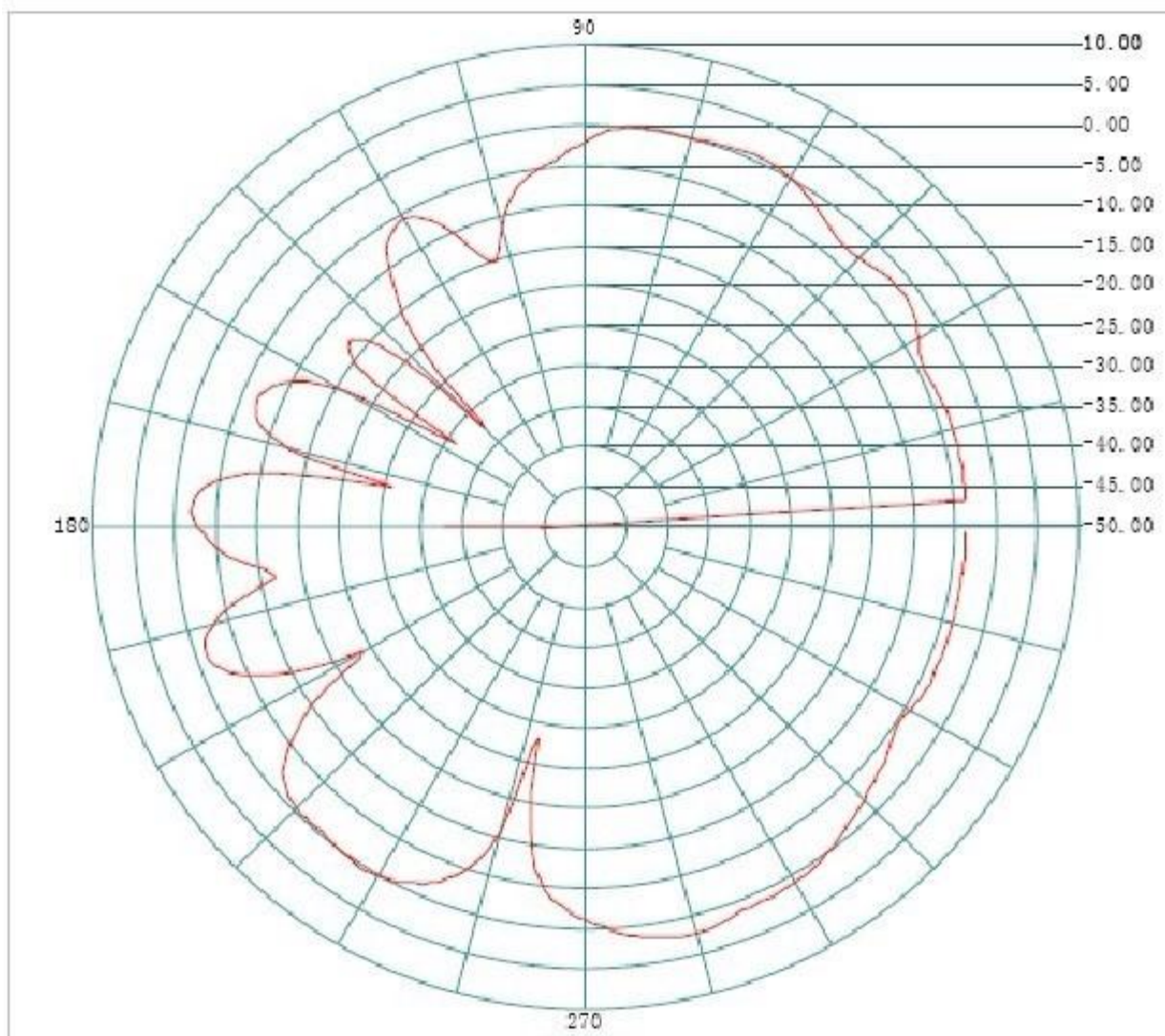
Maximum Value(dBi): **-4.51**

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

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

**2. Main antenna : 2441 MHz**

**2.1 Horizontal**



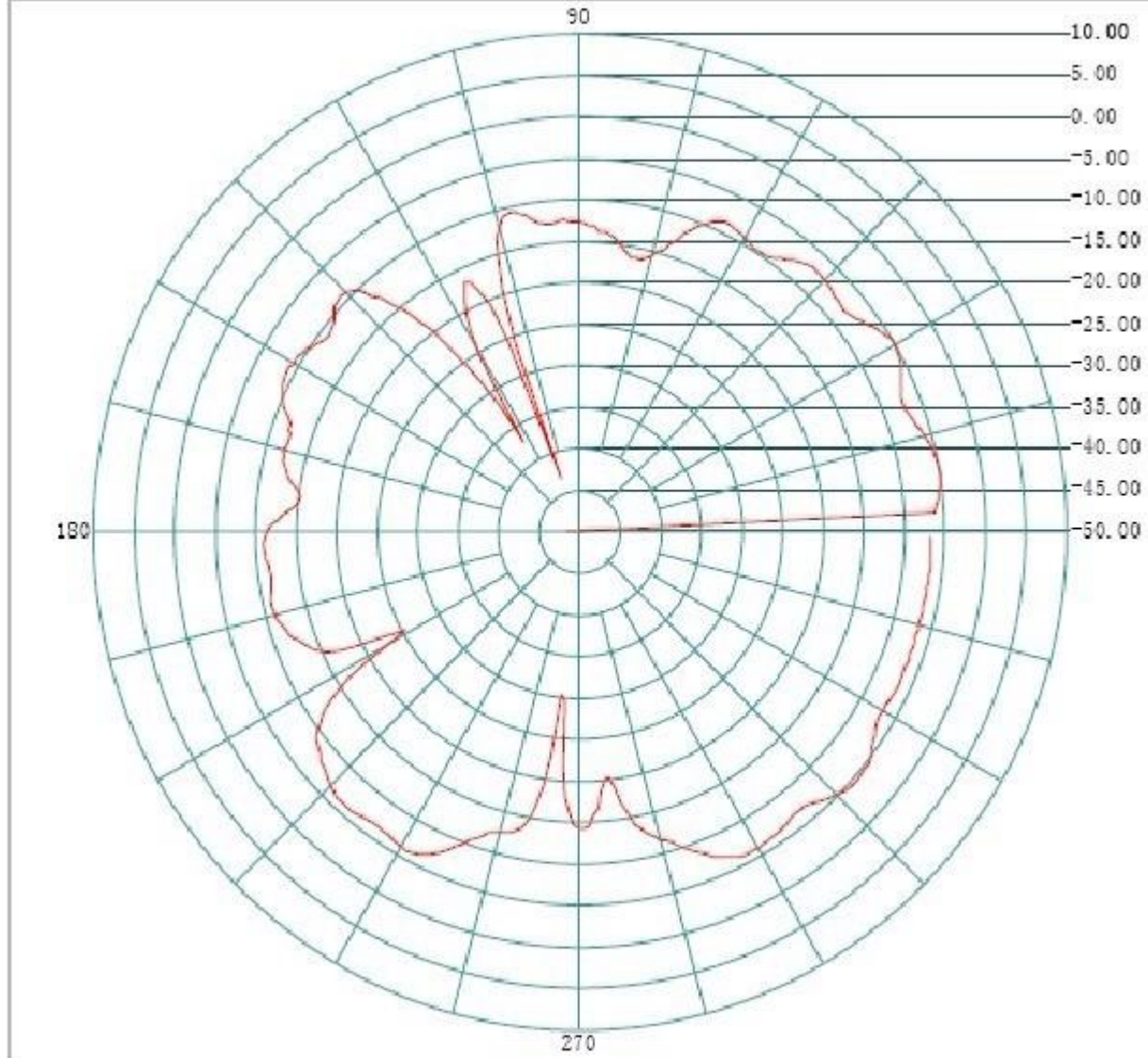
Frequency(MHZ): **2441** Antenna Polarity: **Horizontal**

Maximum Value(dBi): 2.07

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

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

**2.2 Vertical**



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

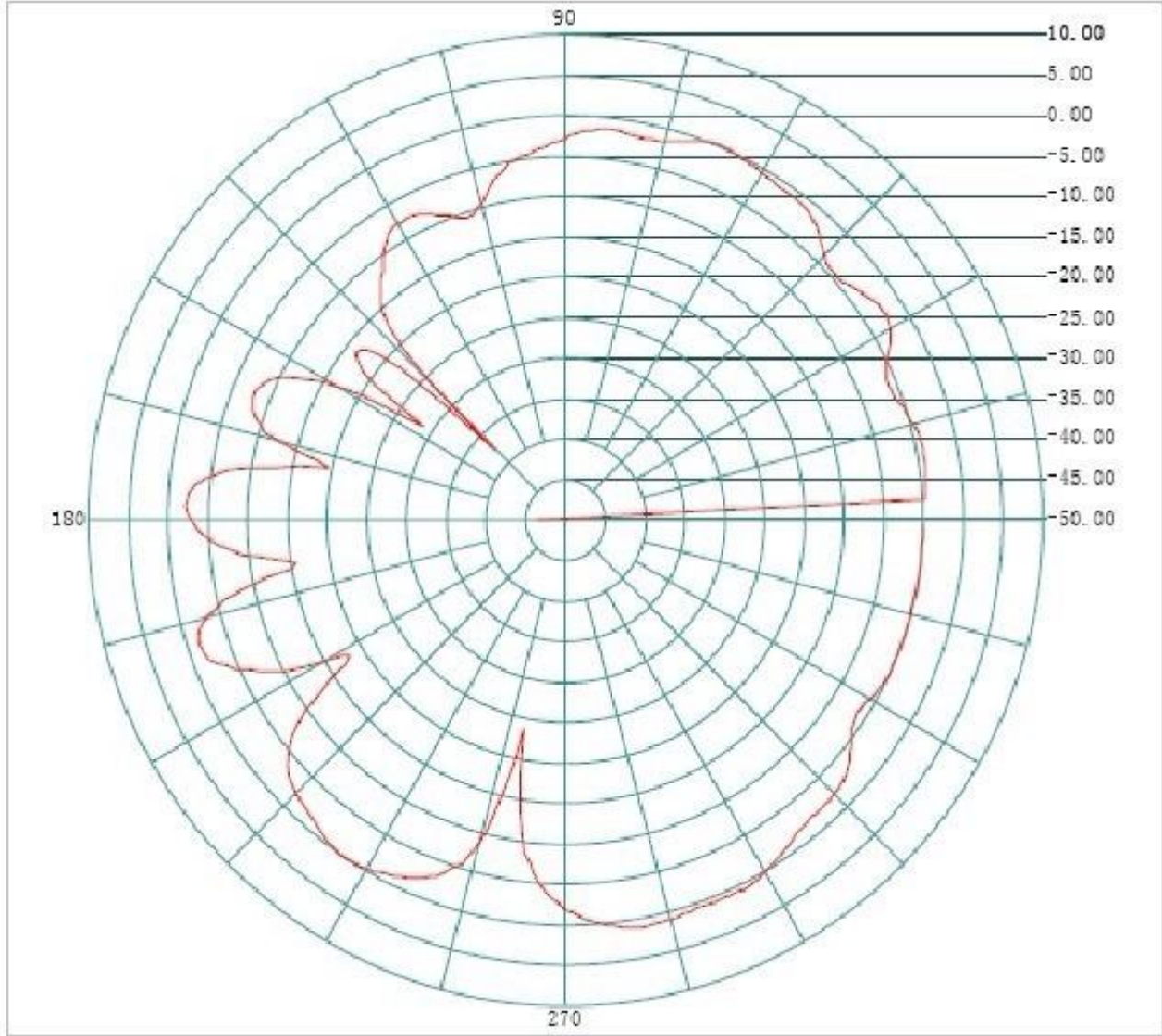
Maximum Value(dBi): **-4.29**

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

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

**2. Main antenna : 2480 MHz**

**2.1 Horizontal**



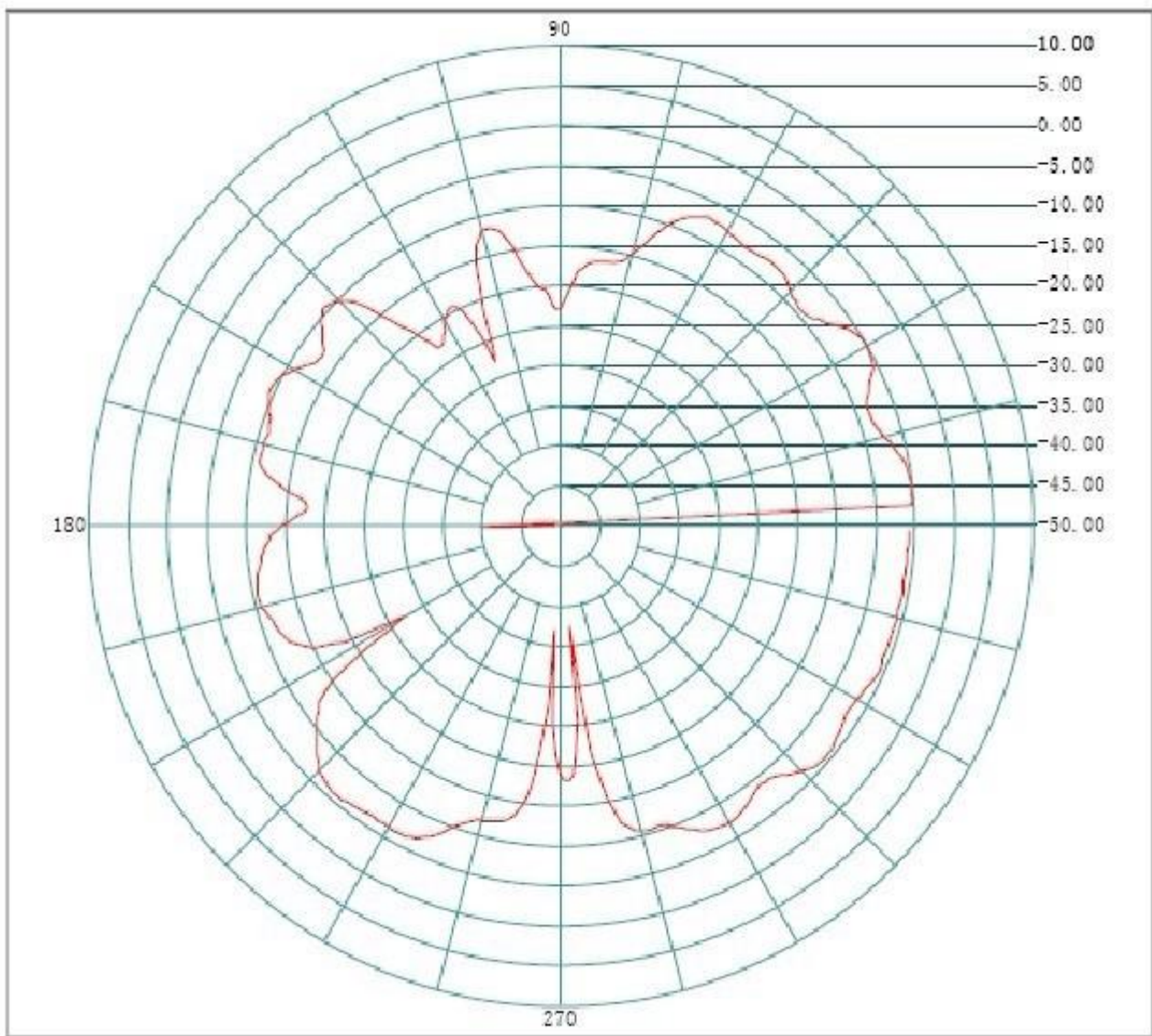
Frequency(MHZ): **2480** Antenna Polarity: **Horizontal**

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**