

# Antenna Specification

Manufacturer : Dongguan Suoai Electronics Co., LTD

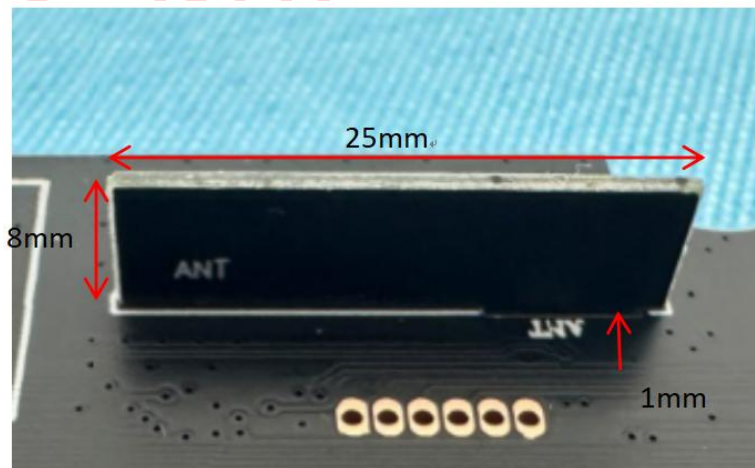
Address : No.3, Huayu Street, Changlong Village, Huangjiang Town, Dongguan City, Guangdong, China

## Specifications

### Summary

| ITEM                 | SPEC.            |          |
|----------------------|------------------|----------|
| Model Name           | IBM 2.4 GHz      |          |
| Center Frequency     | 2402 MHz         | 2.34 dBi |
|                      | 2441 MHz         | 2.07dBi  |
|                      | 2480 MHz         | 1.45 dBi |
| MAX. GAIN            | 2.34 dBi         |          |
| Polarization         | Horizontal       |          |
| Azimuth Beam Pattern | Omni-directional |          |
| Impedance            | 50 $\Omega$      |          |
| Antenna Length       | 3.45cm           |          |

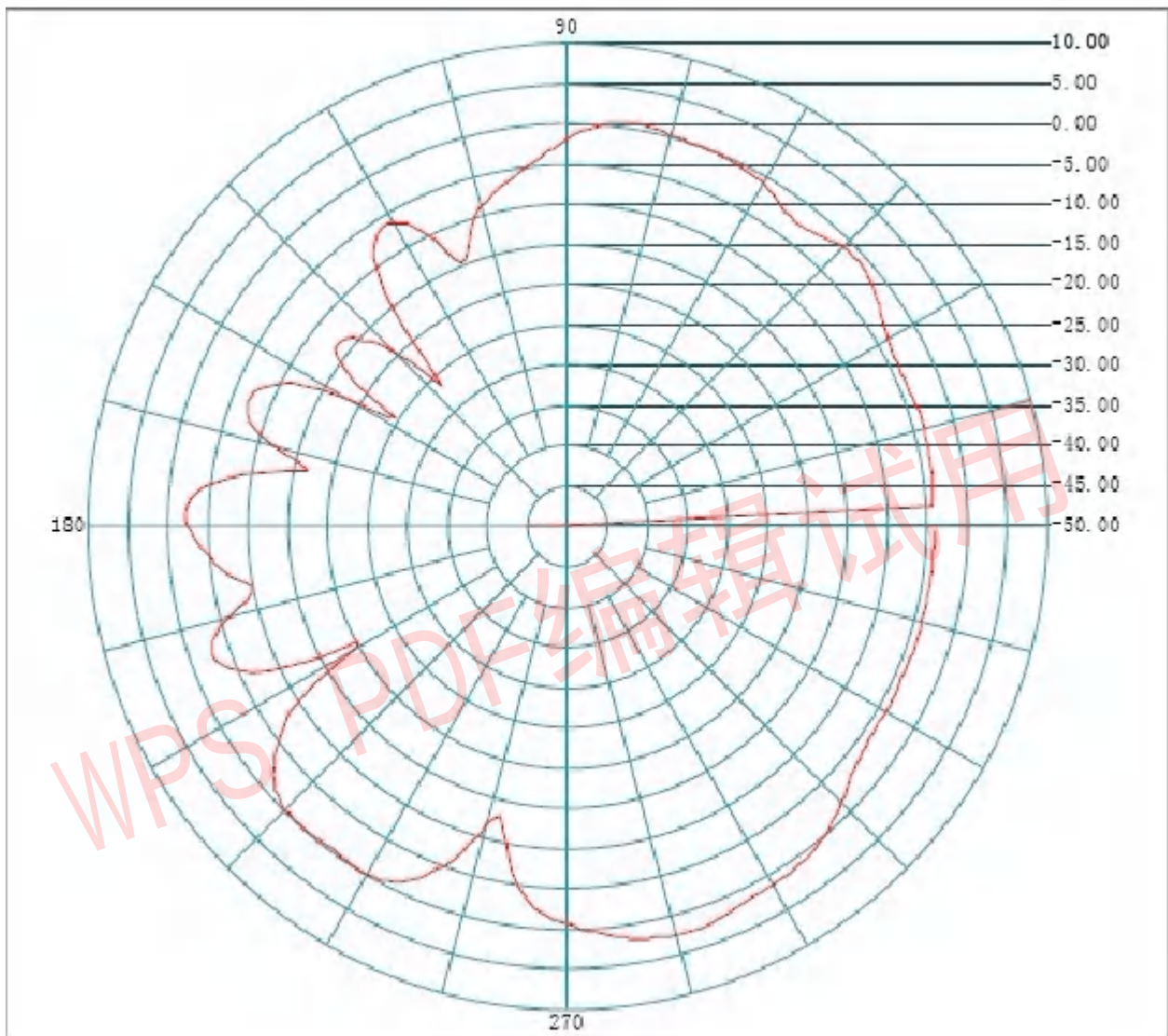
### Antenna Photo & Length (mm)



|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Test Address    | 16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303, Taiwan |
| Test Date       | 2009-04-14                                                                |
| Test Instrument | vector network analyzer - R&S ZVB20                                       |

## 1. Main antenna : 2402 MHz

### 1.1 Horizontal



Frequency(MHZ): **2402**

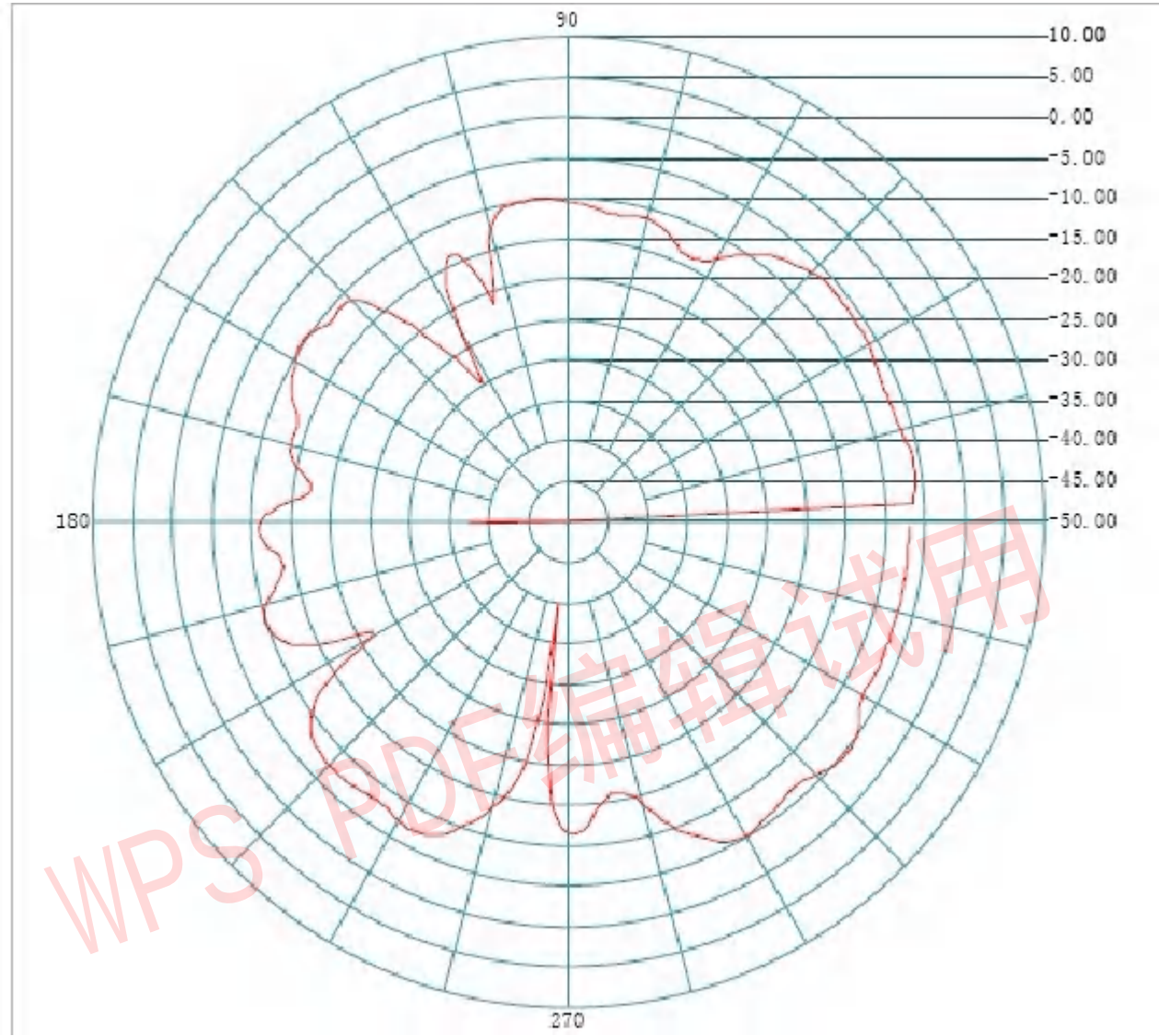
Antenna Polarity: **Horizontal**

Maximum Gain(dBi): **2.34**

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

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

**1.2 Vertical**



Frequency(MHZ): **2402**

Antenna Polarity: **Vertical**

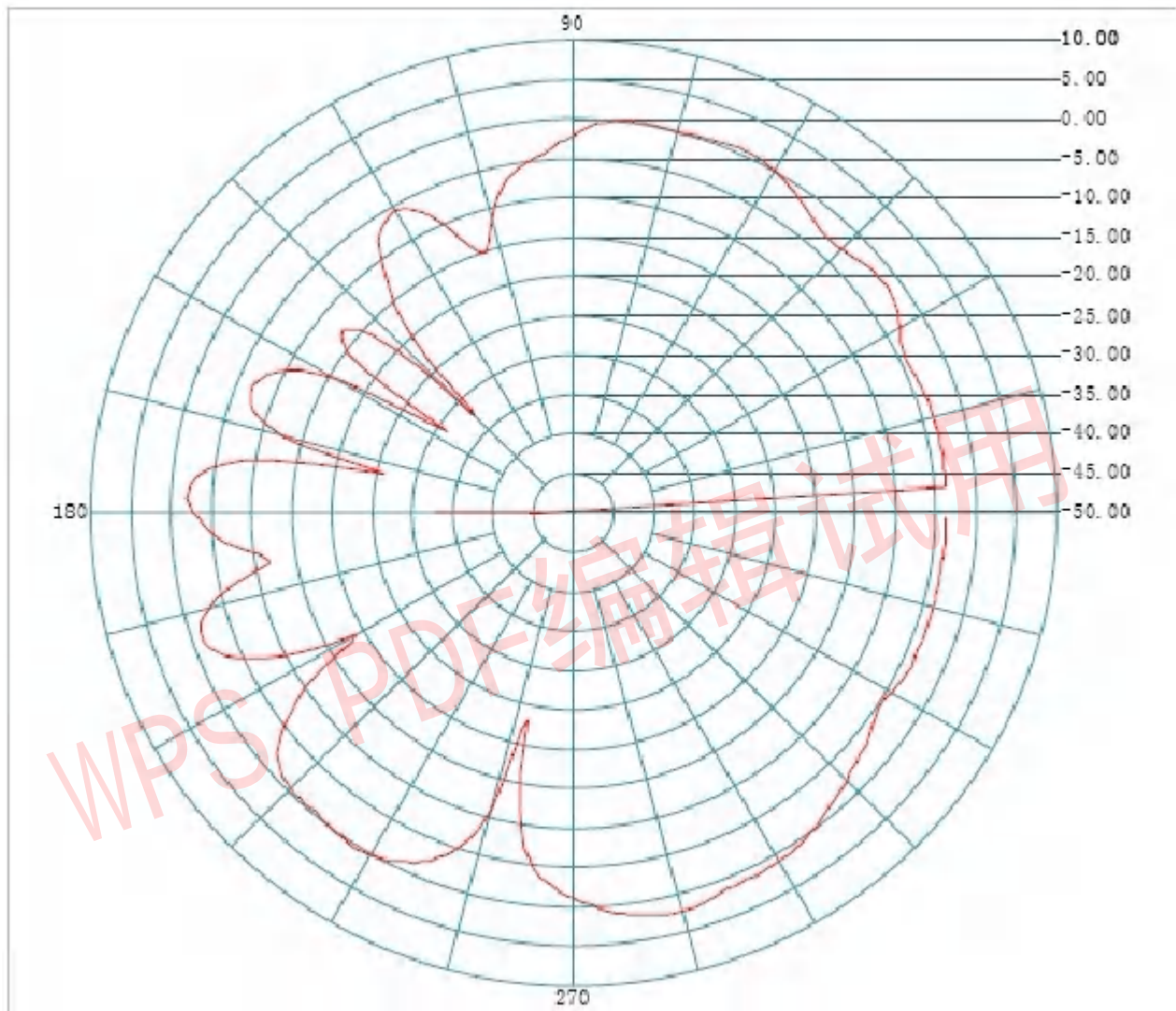
Maximum Gain(dBi): **-4.51**

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

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

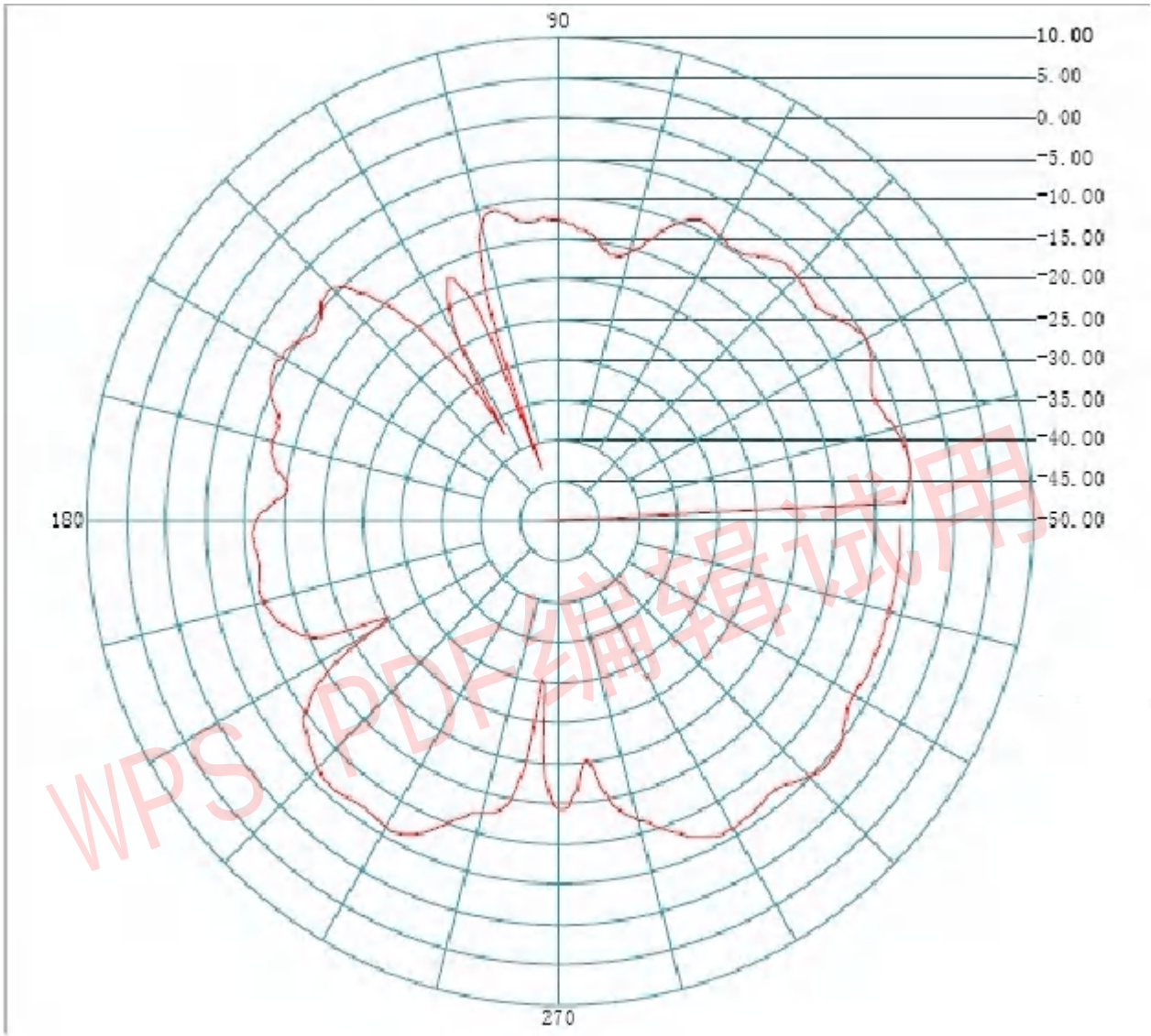
**2. Main antenna : 2441 MHz**

**2.1 Horizontal**



|                     |               |                   |                   |
|---------------------|---------------|-------------------|-------------------|
| Frequency(MHZ):     | <b>2441</b>   | Antenna Polarity: | <b>Horizontal</b> |
| Maximum Gain(dBi):  | 2.07          |                   |                   |
| Average Gain(dBi) : | <b>-2.54</b>  |                   |                   |
| Minimum Gain(dBi):  | <b>-66.98</b> |                   |                   |

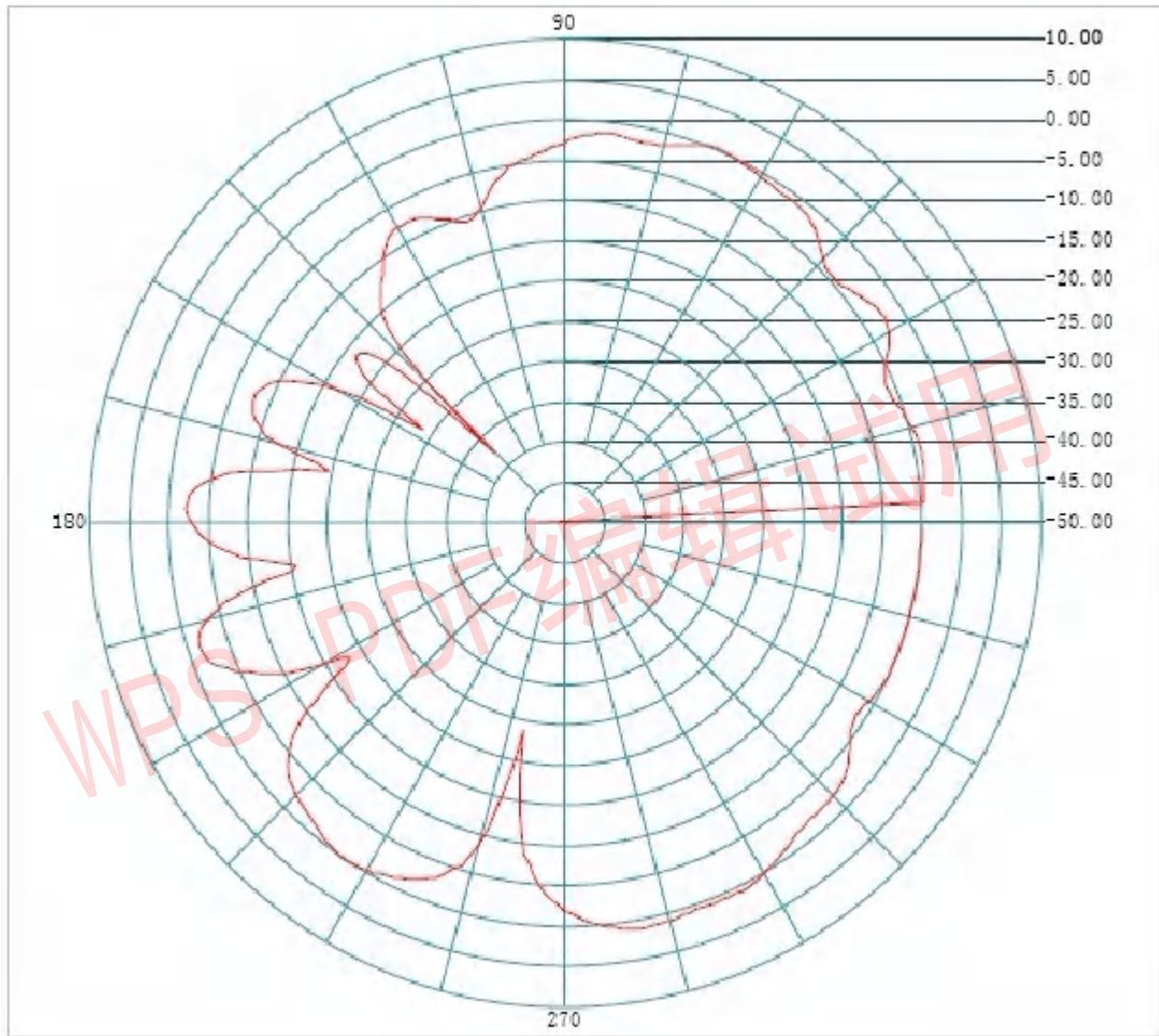
2.2 Vertical



|                     |       |                   |          |
|---------------------|-------|-------------------|----------|
| Frequency(MHZ):     | 2441  | Antenna Polarity: | Vertical |
| Maximum Gain(dBi):  | -4.29 |                   |          |
| Average Gain(dBi) : | -8.81 |                   |          |
| Minimum Gain(dBi):  | -51.4 |                   |          |

## 2. Main antenna : 2480 MHz

### 2.1 Horizontal



Frequency(MHZ): **2480**

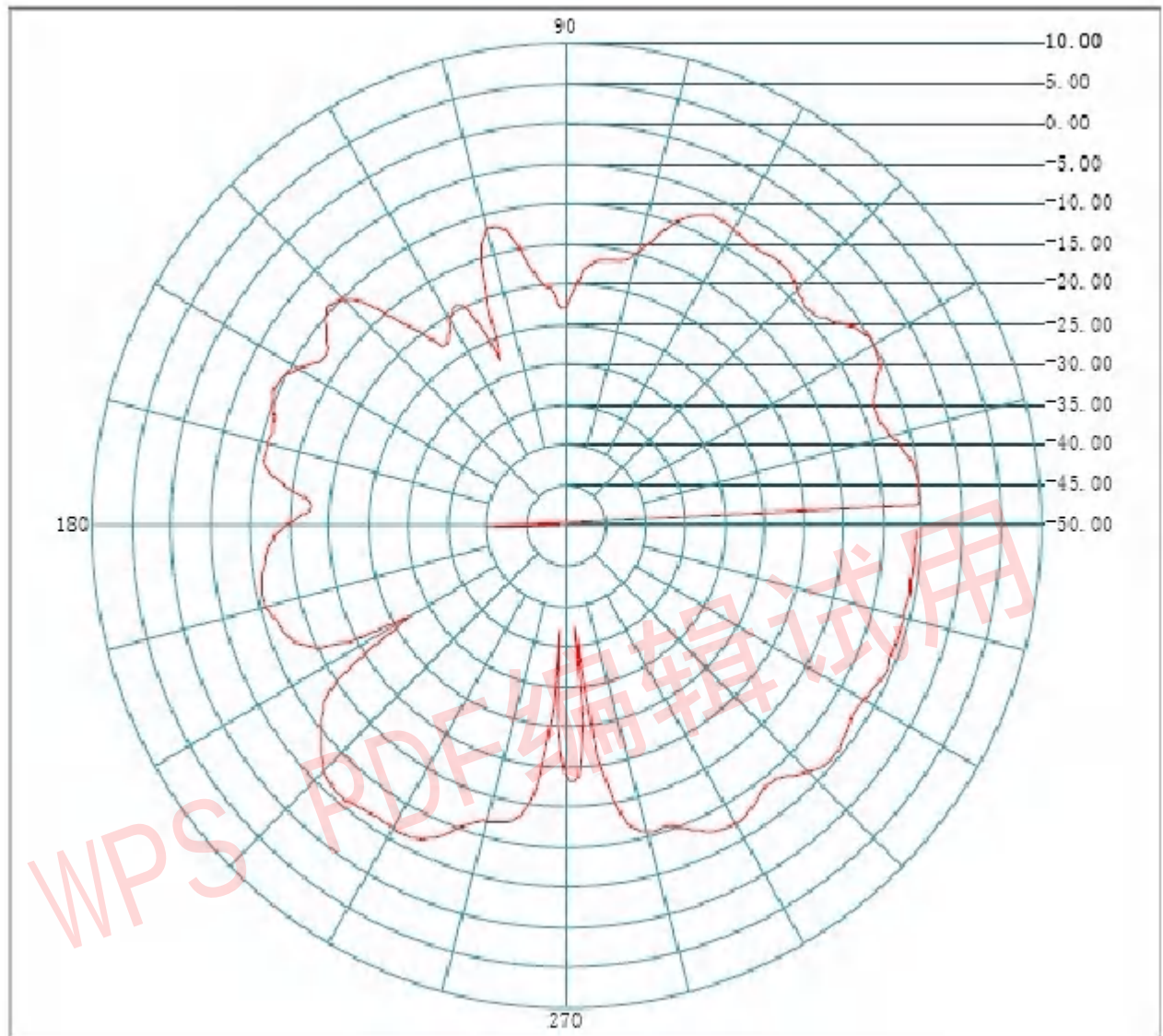
Antenna Polarity: **Horizontal**

Maximum Gain(dBi): **1.45**

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

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

## 2.2 Vertical



Frequency(MHZ): **2480**

Antenna Polarity: **Vertical**

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

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

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