

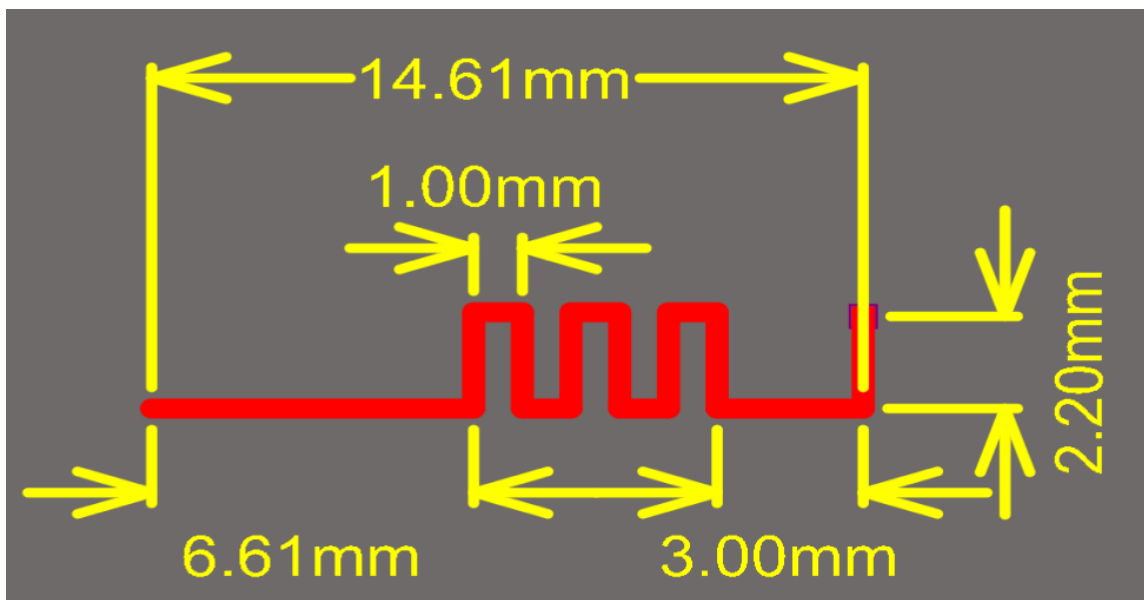
Antenna Specification

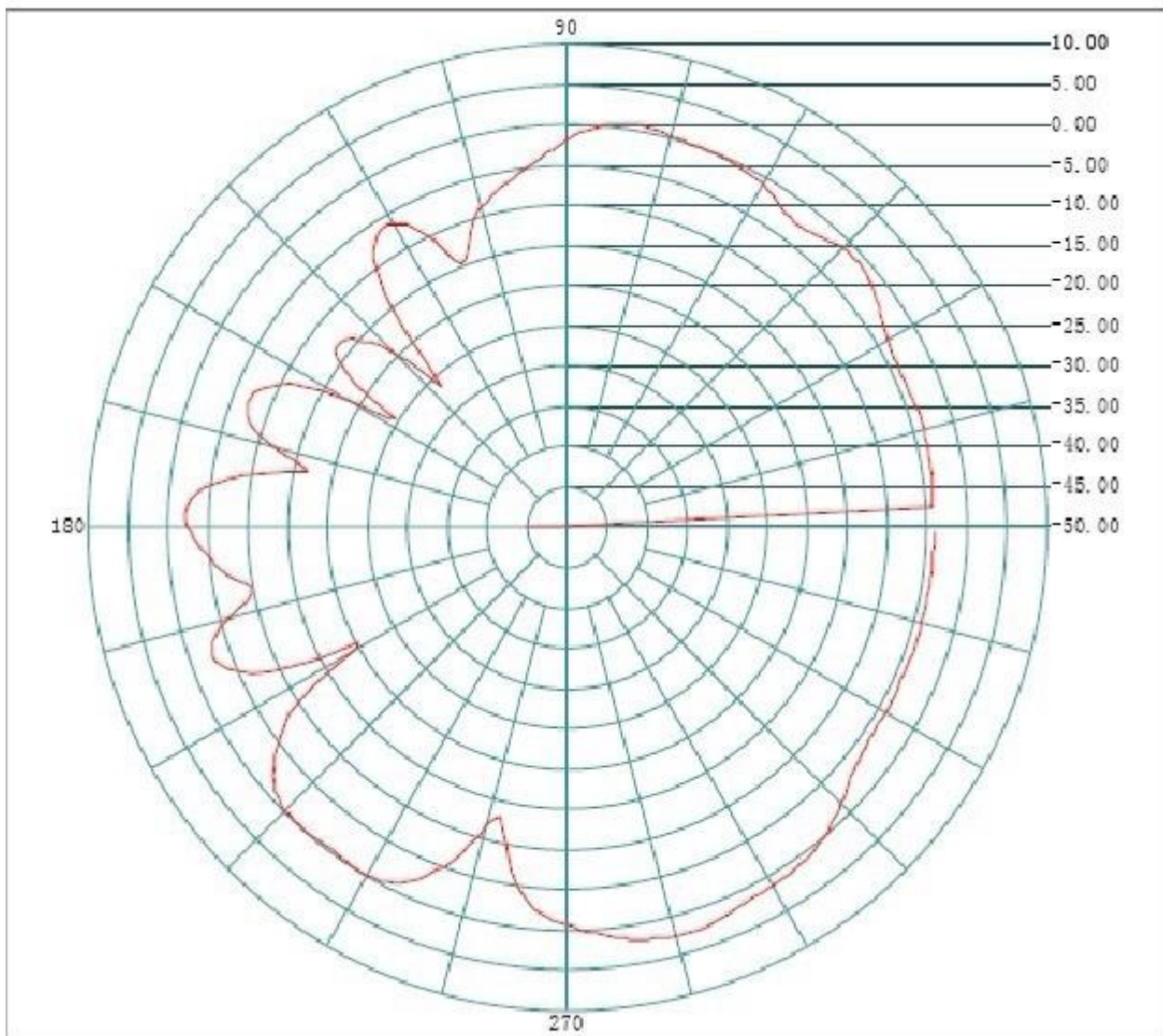
Specifications

Summary

ITEM	SPEC.
Antenna Type	PCB Antenna
Center Frequency	2402 MHz -1 dBi 2441 MHz -1 dBi 2480 MHz -1 dBi
MAX. GAIN	-1 dBi
Polarization	Horizontal
Azimuth Beam Pattern	Omni-directional
Impedance	50 Ω
Antenna Length	14.61 cm
Model Name	MD280
manufacturer	B.O.W

Antenna Photo & Length (mm)



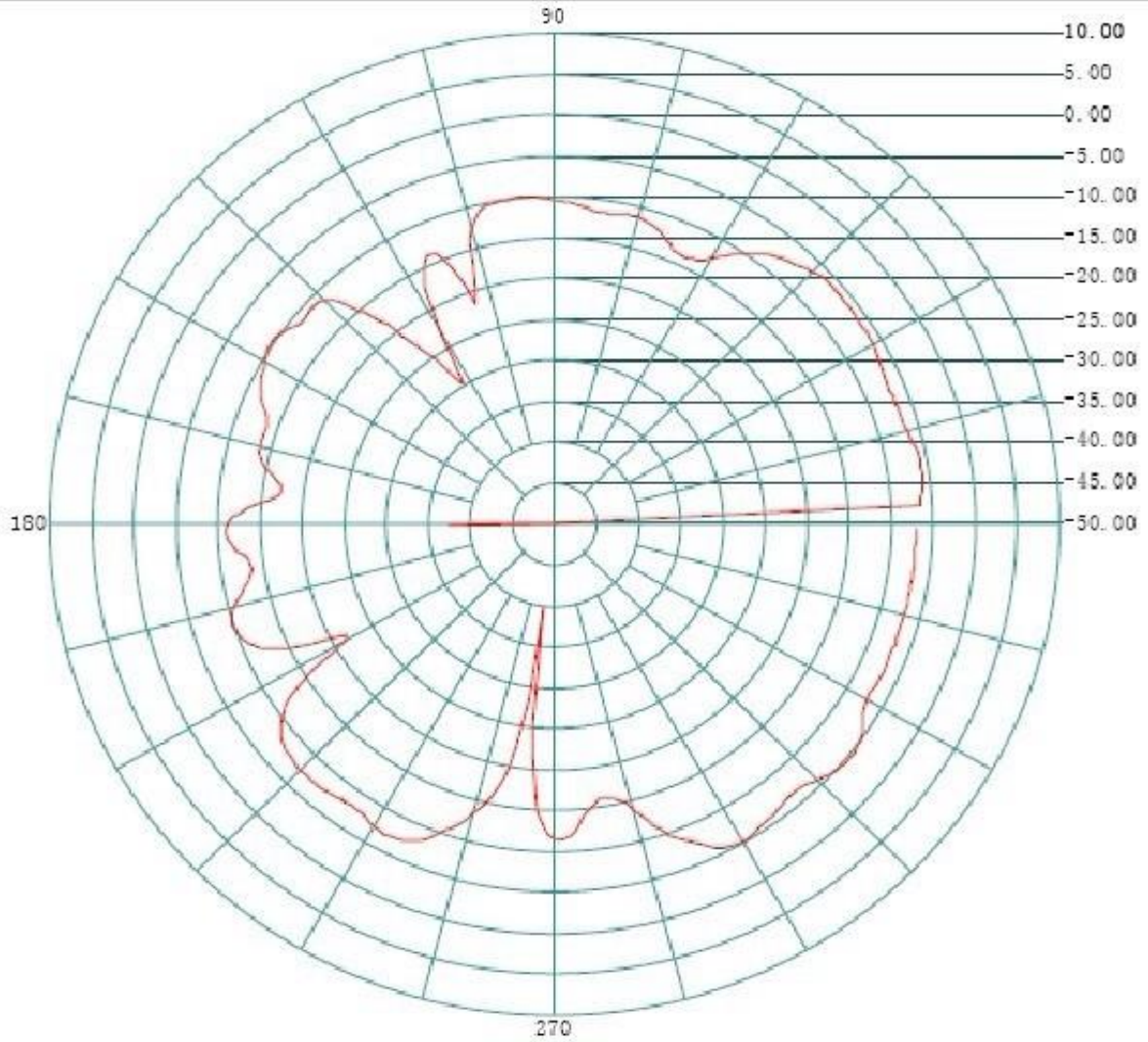


Test Address	16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303 , Taiwan
Test Date	2019-10-11
Test Instrument	vector network analyzer - R&S ZVB20

1. Main antenna : 2402 MHz

1.1 Horizontal

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



Maximum Value(dBi): -1

Average Gain(dBi) : -2.48

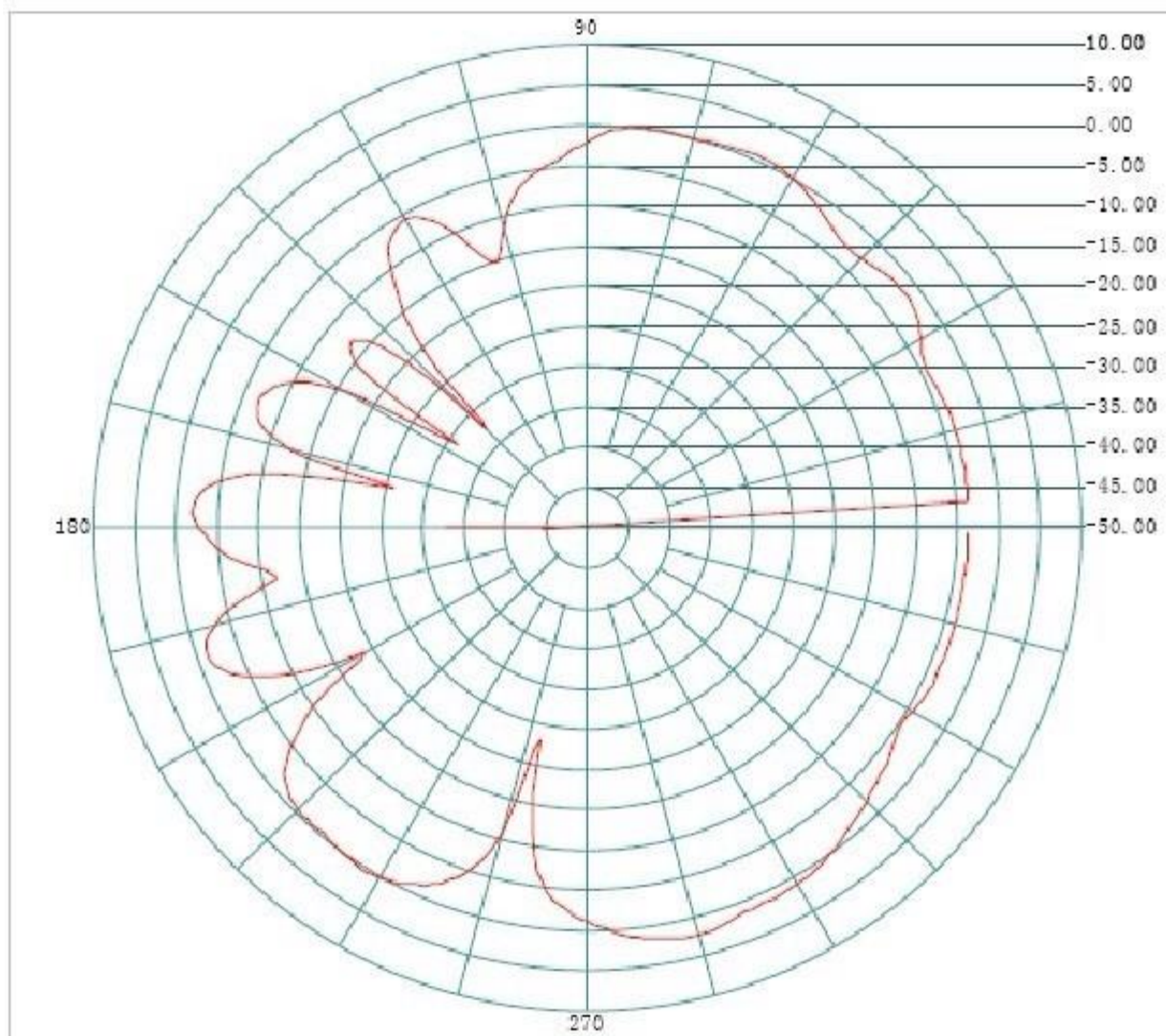
Minimum Gain(dBi): -55.18
1.2 Vertical

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): **-1**

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

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

2.2 Vertical

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

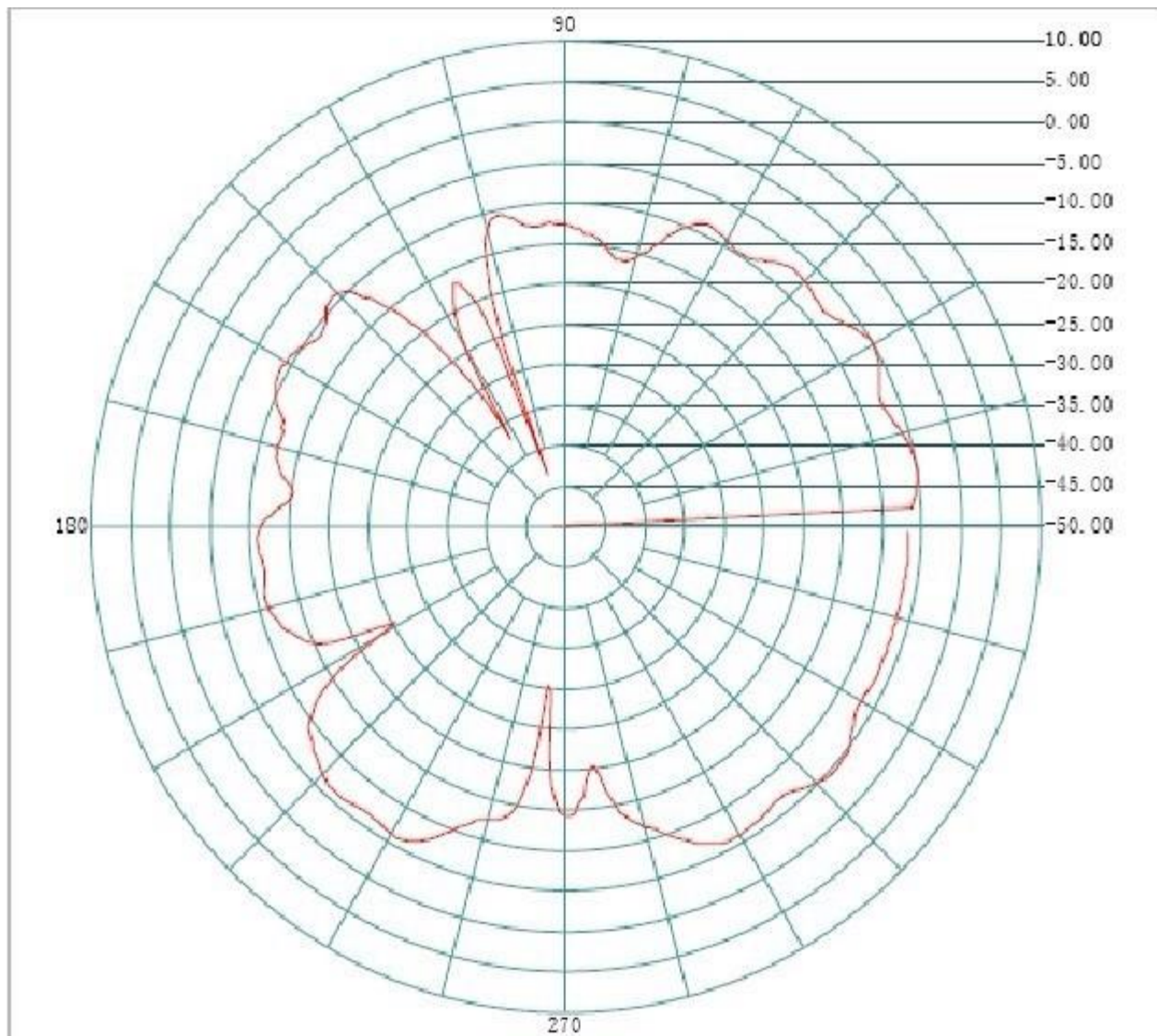
Maximum Value(dBi): **-4.29**

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

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

2. Main antenna : 2480 MHz

2.1 Horizontal



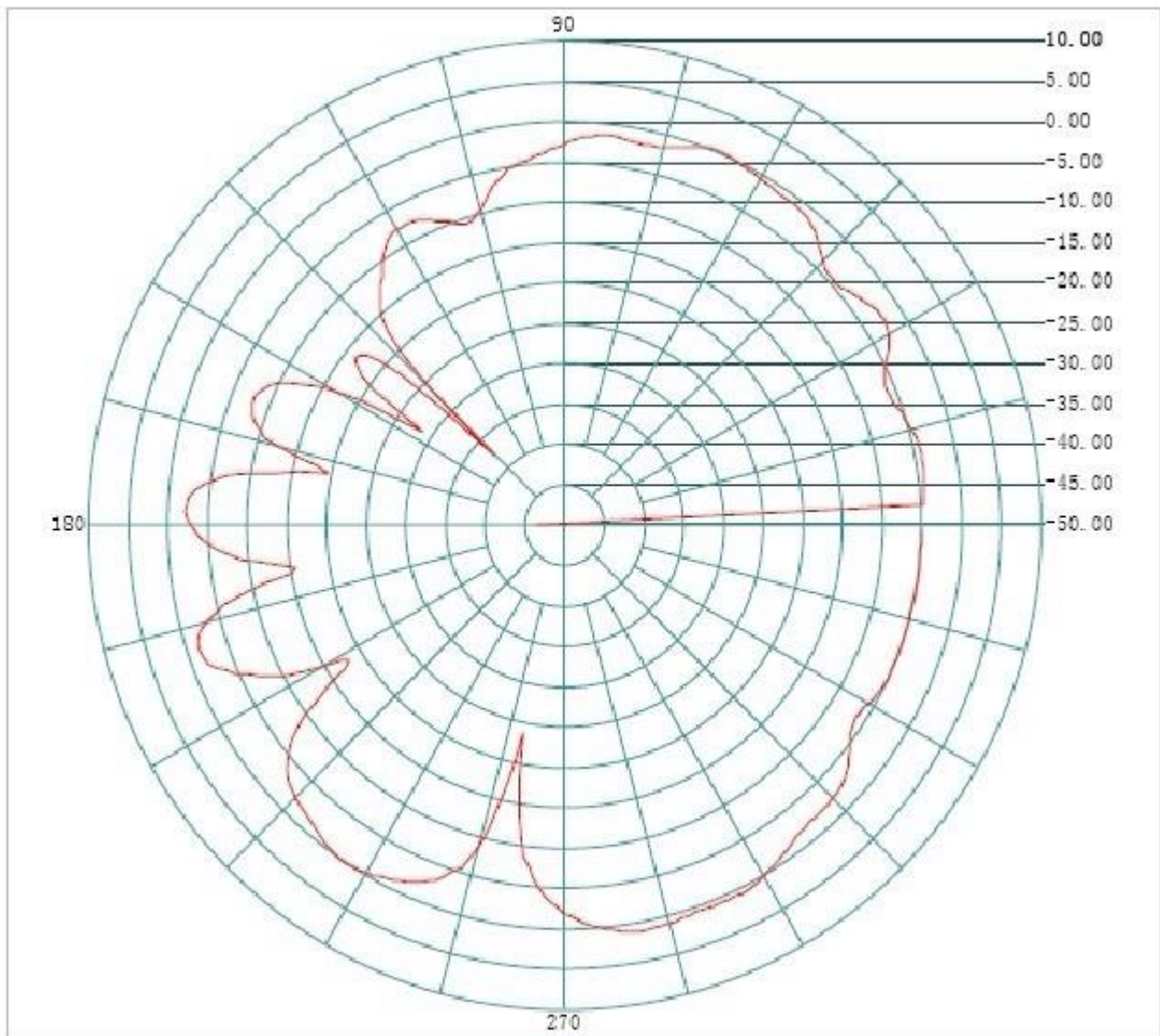
Frequency(MHZ): **2480** Antenna Polarity: **Horizontal**

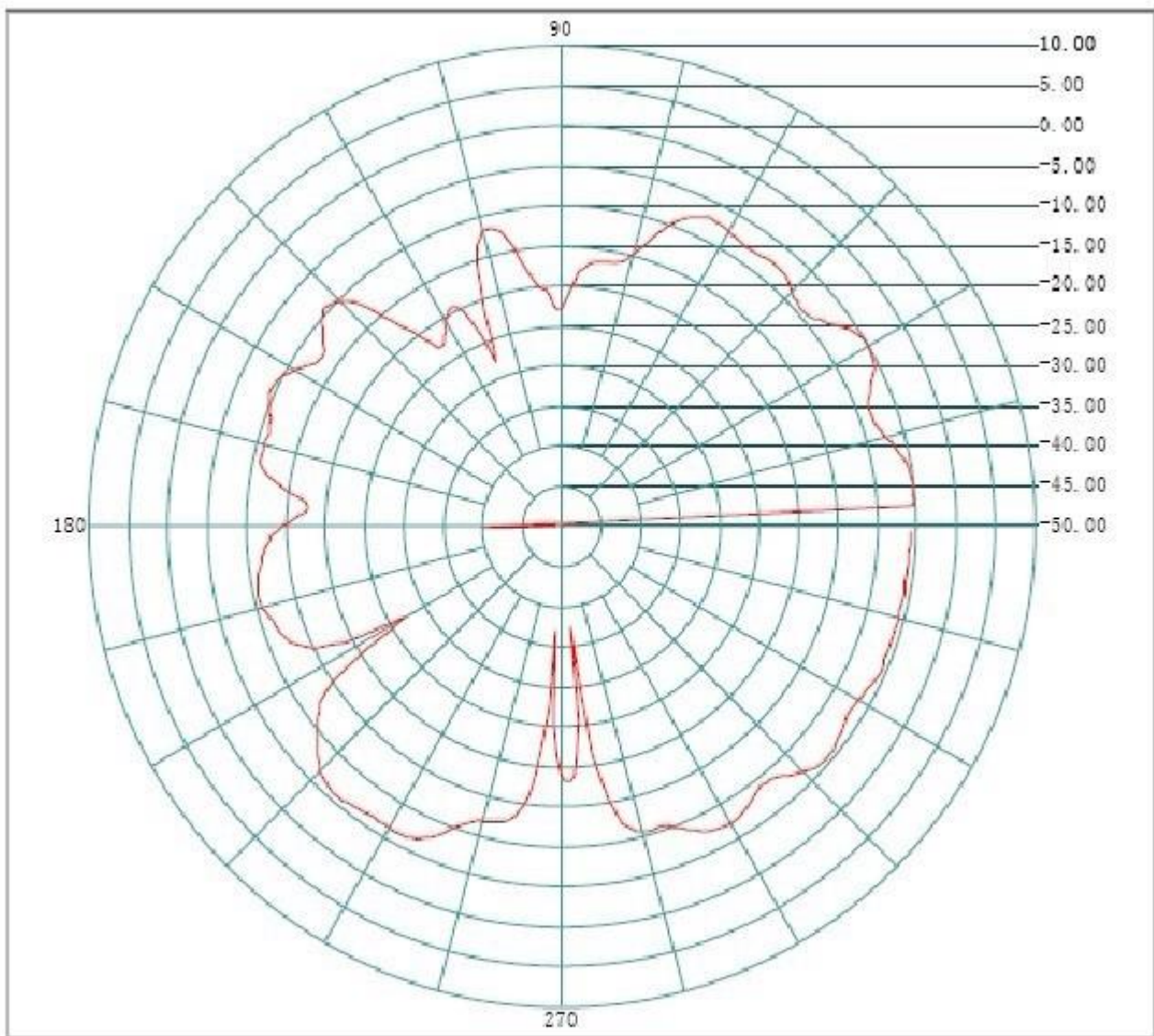
Maximum Value(dBi): **-1**

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**