

Antenna Specification

Manufacture: TONGXUN

Product Name: XC-5845-15 AntennaAntenna

Type: PCB

Test Date: 2025.05.12

Tested by: Yinhua Zhang

Approved by: Licco

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1.General Description

Manufacturer	Shenzhen Tongxun Precision Technology Co., Ltd
Address	No.52,Xikeng Road,Xikeng community, Fucheng street ,Longhua District, Shenzhen
Test Location	No.52,Xikeng Road,Xikeng community, Fucheng street ,Longhua District, Shenzhen
Product Name	XC-5845-15 Antenna
Product model	XC-5845-15
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2. Test Configurations

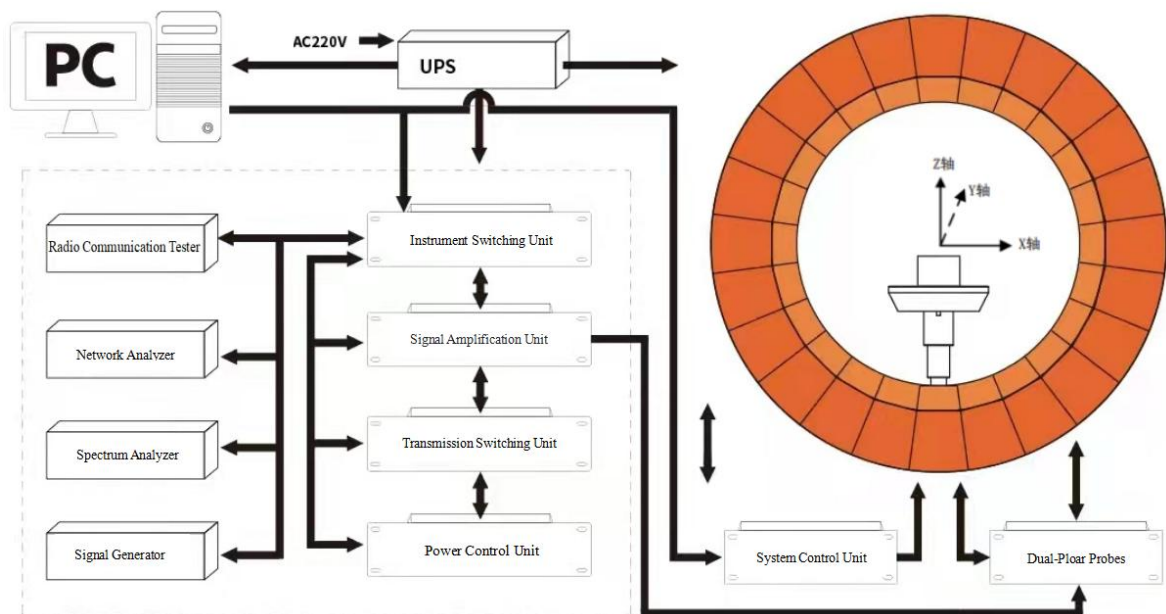
2.1 Test Environment

Temperature (°C)	25
Humidity (%RH)	60
Atmospheric Pressure (kPa)	100.5

2.2 Test Equipment

Test System	TEM 24 Multi-probe Microwave Chamber
Test Instrument	Agilent E5071B

2.3 Test Principle



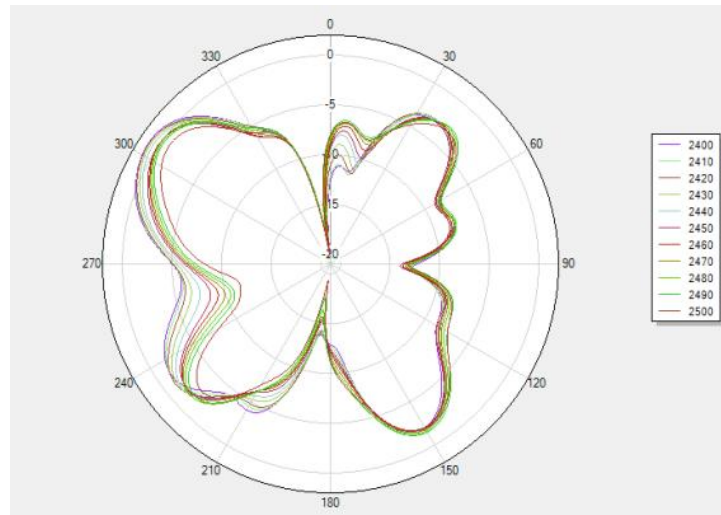
3. Test Results

3.1 Gain and Efficiency

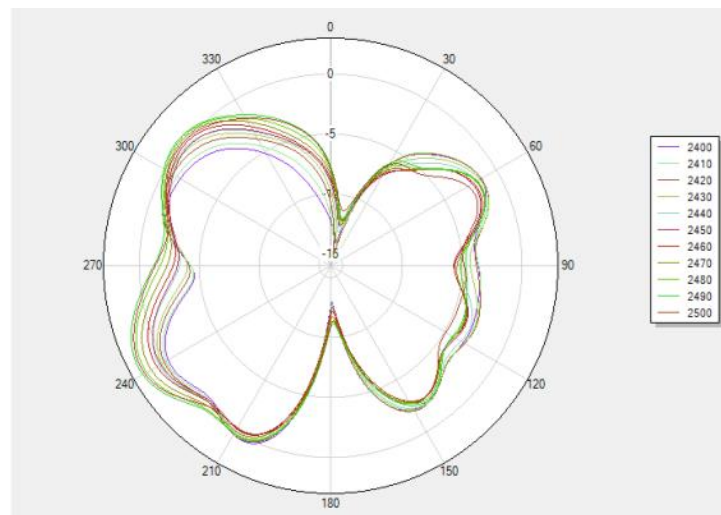
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	1.62	52.29
2410	1.71	52.17
2420	1.93	53.14
2430	1.98	54.16
2440	2.00	57.62
2450	2.17	59.64
2460	2.45	61.55
2470	2.38	60.64
2480	2.50	62.86
2490	2.30	59.85
2500	2.49	60.41

3.2 Radiation Pattern

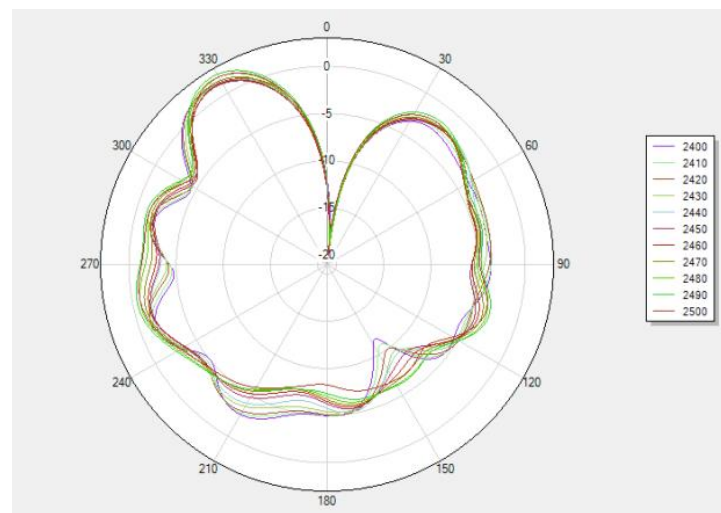
Phi 0 2D



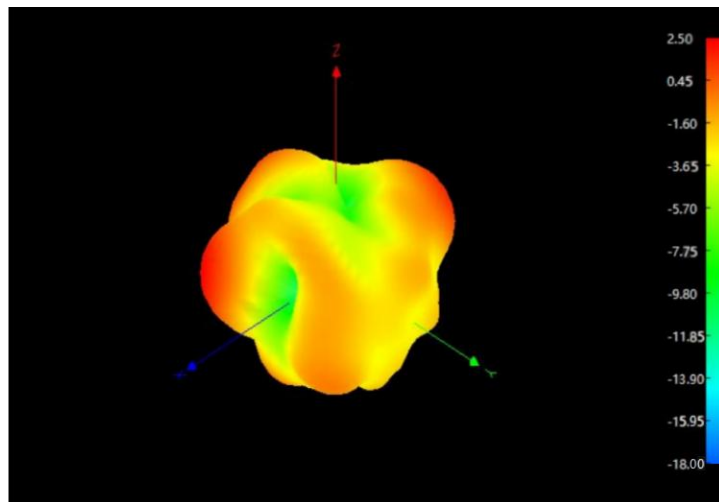
Phi 90 2D



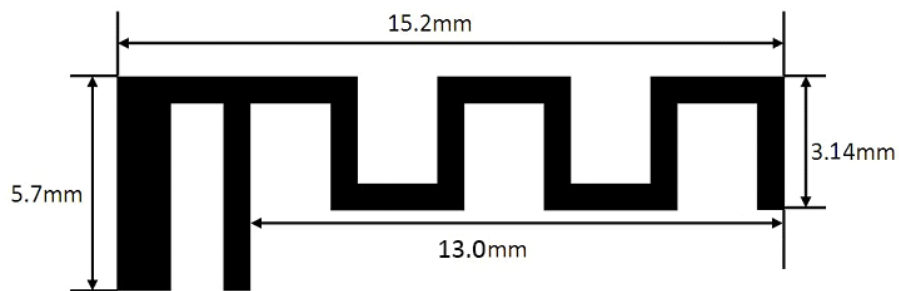
Theta 90 2D



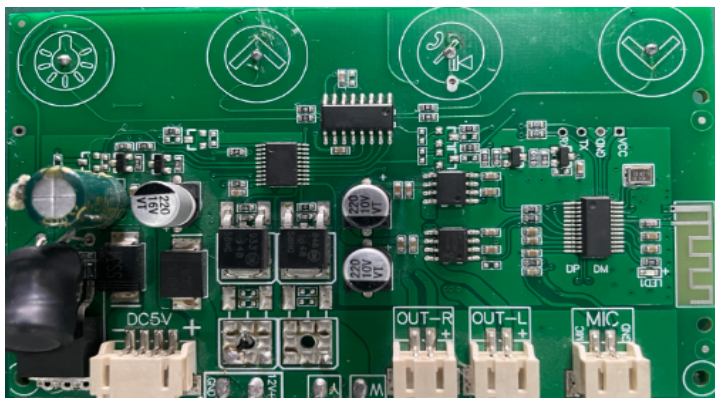
2480MHz 3D



4. Antenna Dimensions



5. EUT Photo



6. Test Setup Photo

