

Antenna Specification

Manufacture: TUYA

Product Name: TTFM-11 Antenna

Antenna Type: PCB

Test Date: 2024.4.24

Tested by: Zoyo

Approved by: Liu

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1.General Description

Manufacturer	Zhejiang Lingzhu Technology Co., Ltd.
Address	Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China
Test Location	Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China
Product Name	TTFM-11 Antenna
Product model	TTFM-11 Antenna
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Instrument Calibration Date	2024.01.05
Software Version	V1.0
Test Standard	ANSI/IEEE Std 149-1979

2. Test Configurations

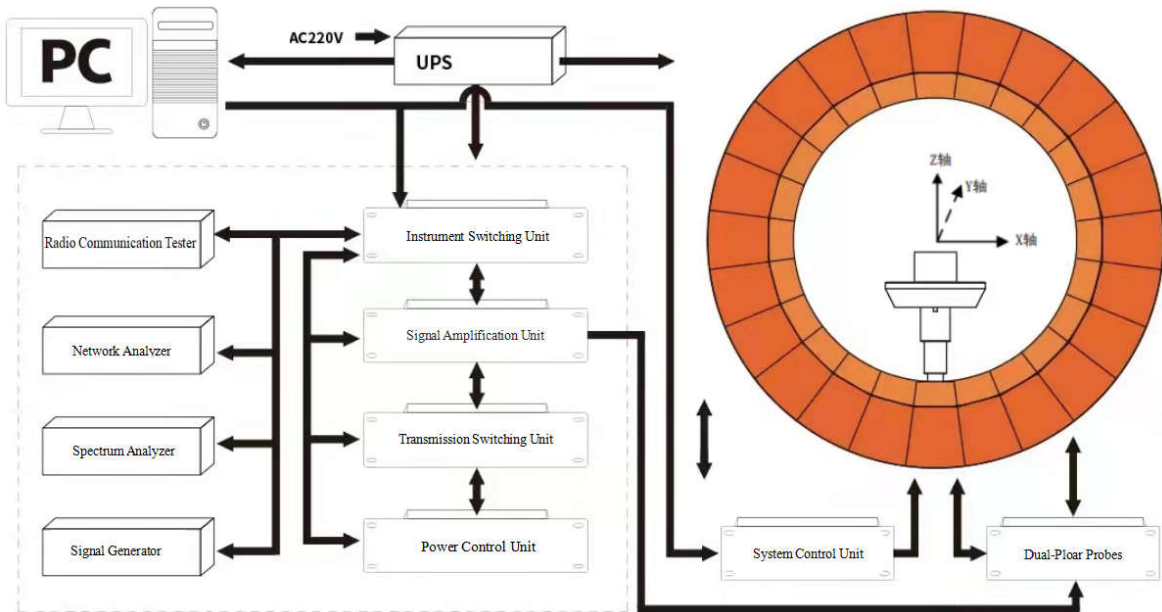
2.1 Test Environment

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



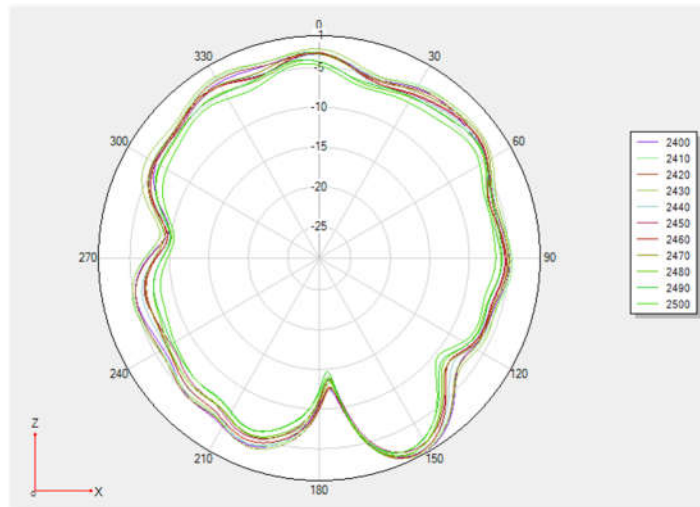
3.Test Results

3.1 Gain and Efficiency

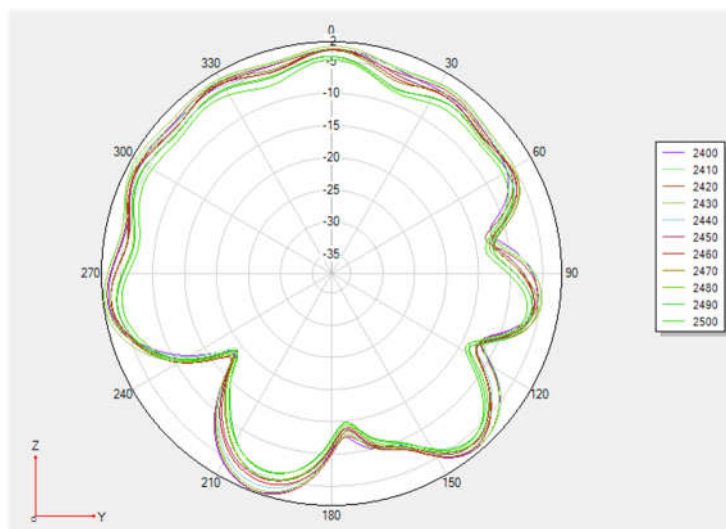
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	-0.44	28.18
2410	-0.75	29.92
2420	-0.45	29.72
2430	-0.82	28.97
2440	-1.19	24.6
2450	-2.01	25.7
2460	-1.32	24.83
2470	-1.79	24.55
2480	-1.78	22.54
2490	-2.33	20.99
2500	-2.3	18.97

3.2 Radiation Pattern

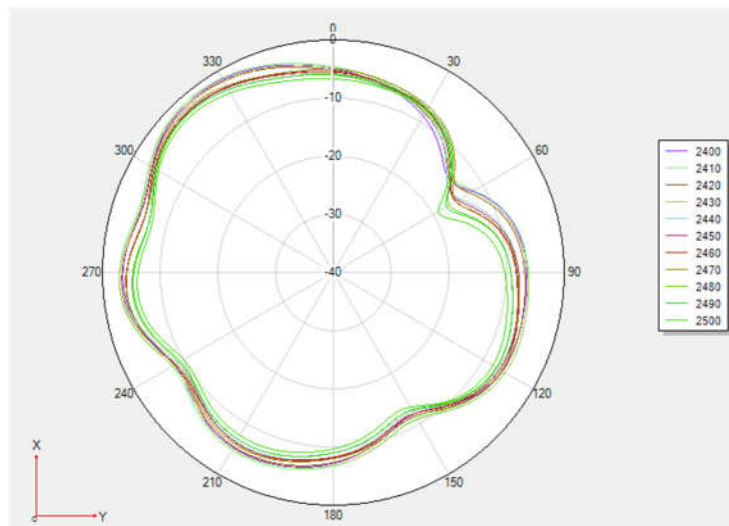
Phi 0 2D



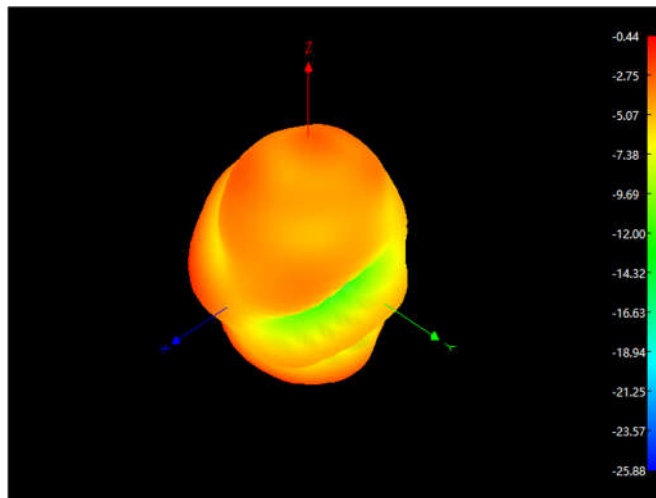
Phi 90 2D



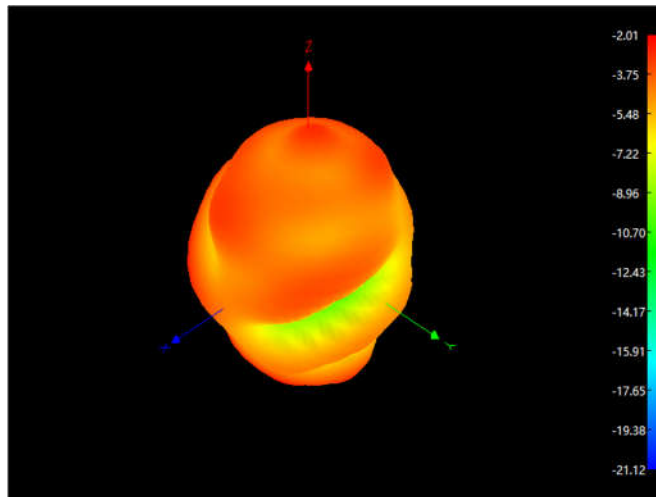
Theta 90 2D



2400MHz 3D



2450MHz 3D



2500MHz 3D

