
Antenna Specification

Manufacture : HUANZHI

Product Name: HZ-MBTDEMS Antenna

Antenna Type: PCB

Test Date: 2024.03.20

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1. General Description

Manufacturer	Shanghai Huanzhi electronic Technology Co., LTD
Address	Room 320, Floor 3, Building 1, Lane 30, Lane 3111, Nanqiao Huancheng West Road, Fengxian District, Shanghai
Test Location	Building B, No. 2305 Zuchongzhi Road, Pudong New Area, Shanghai
Product Name	HZ-MBTDEMS Antenna
Product model	HZ-MBTDEMS
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2. Test Configurations

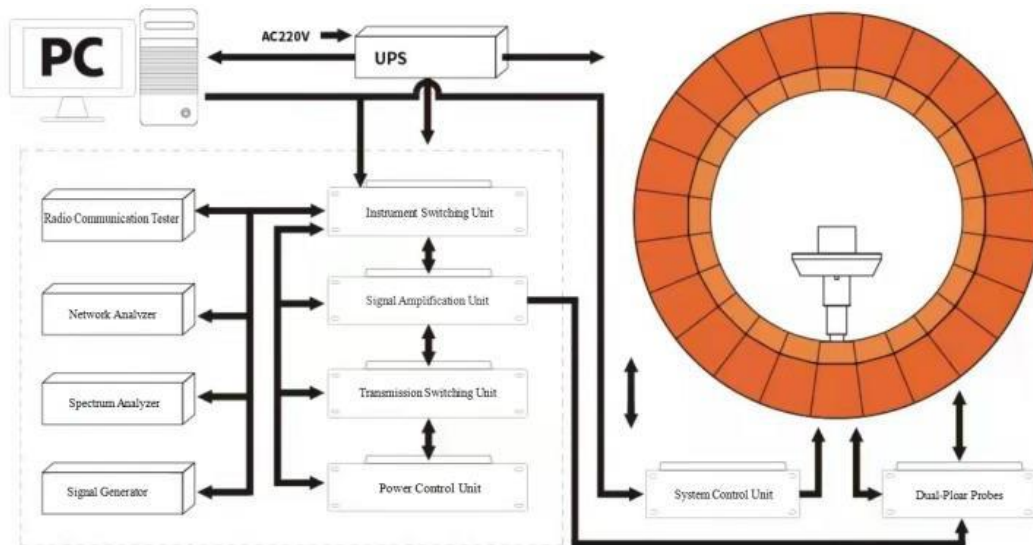
2.1 Test Environment

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



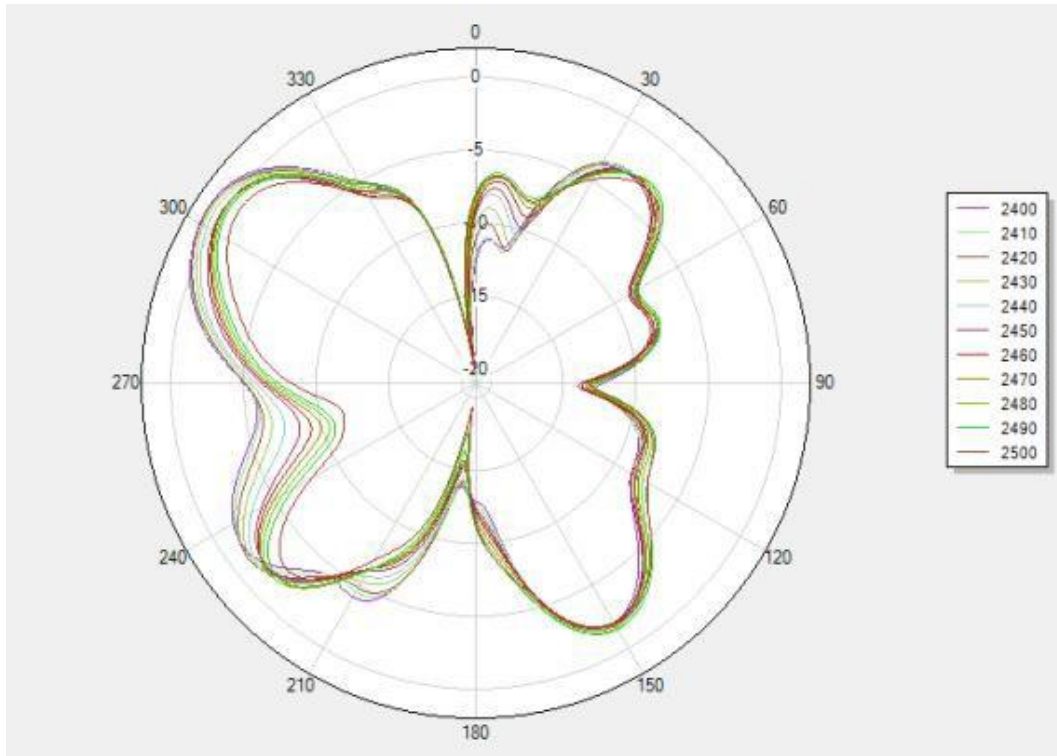
3. Test Results

3.1 Gain and Efficiency

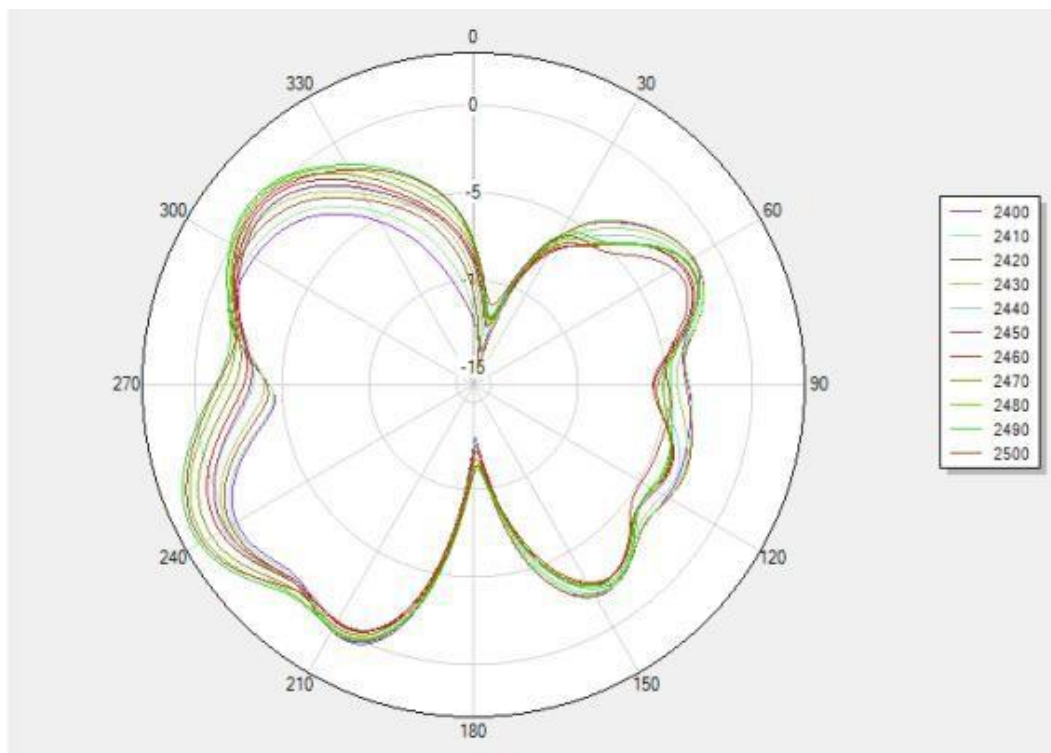
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	1.62	52.29
2410	1.71	52.17
2420	1.93	53.14
2430	1.98	54.16
2440	2.00	57.62
2450	2.17	59.64
2460	2.45	61.55
2470	2.38	60.64
2480	2.54	62.86
2490	2.30	59.85
2500	2.49	60.41

3.2 Radiation Pattern

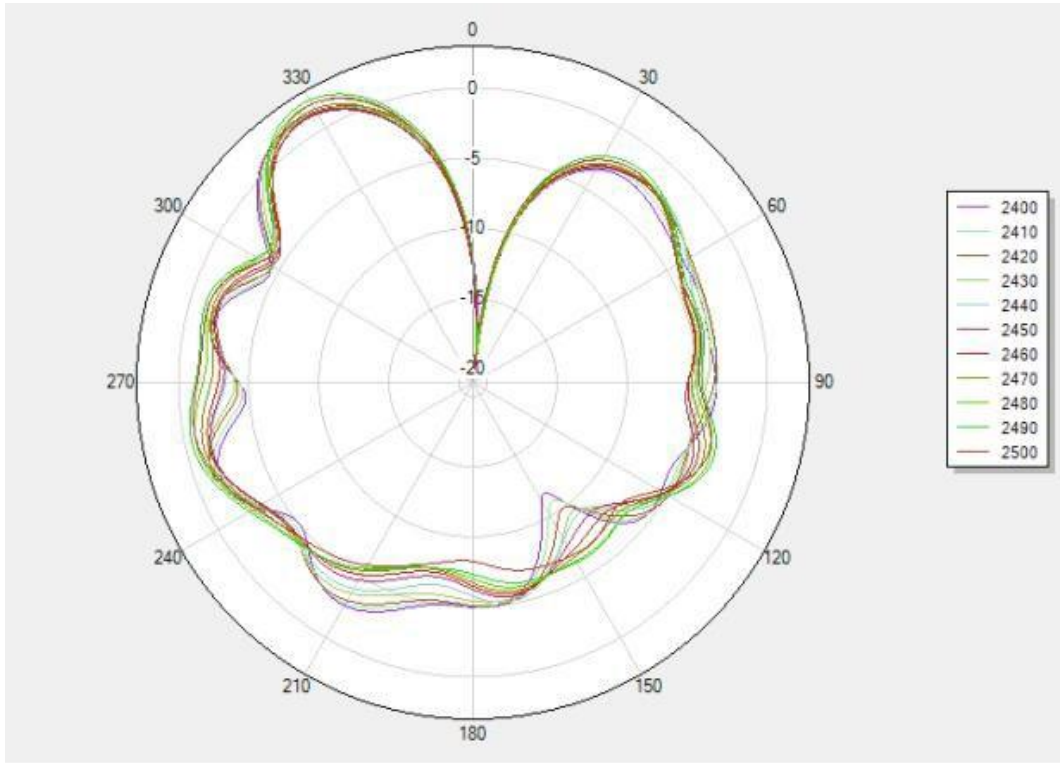
Phi 0 2D



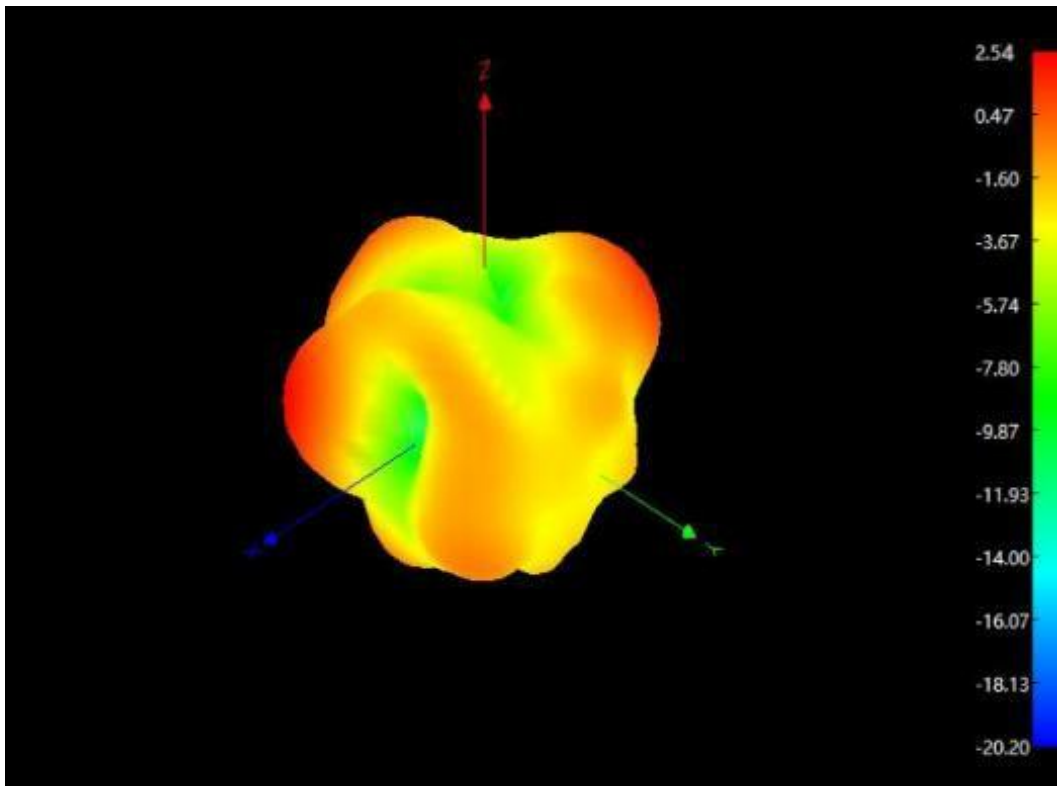
Phi 90 2D



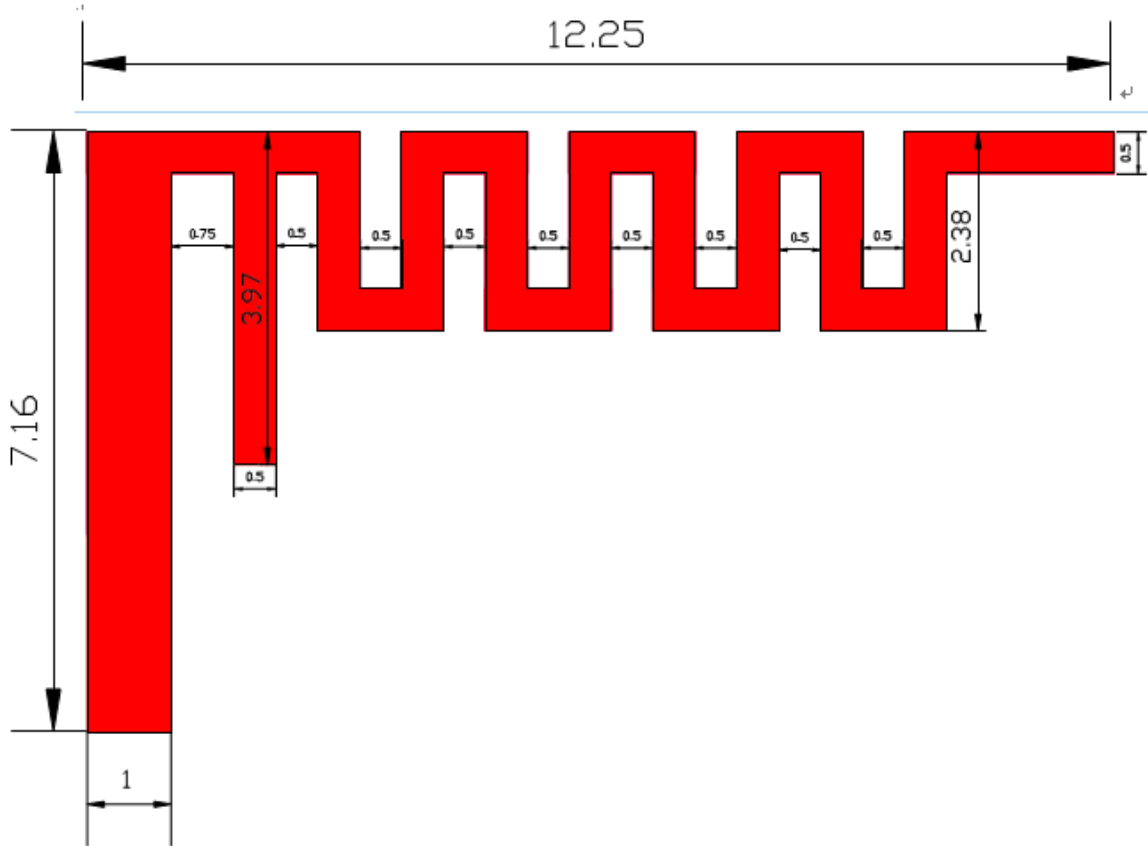
Theta 90 2D



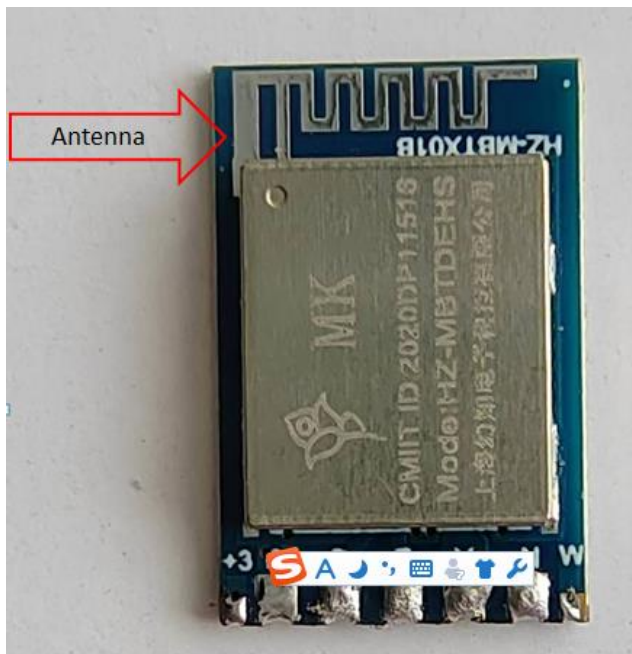
2480MHz 3D



4. Antenna Dimensions



5. EUT Photo



6. Test Setup Photo

