



Antenna Specification

Manufacture: TUYA

Product Name: THP01-ZB-V5 Antenna

Antenna Type: FPC Antenna

Test Date: 2024.10.25

Tested by: Zhang Yinhua

Approved by: Licco

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1.General Description

Manufacturer	Hangzhou Tuya Information Technology Co.,Ltd
Address	Room 701,Building 3,More Center,No.87 GuDun Road, Hangzhou, Zhejiang,China
Test Location	Room 509, Building 1, Binrun Science and Technology Park, No. 5 Zhiren Street, Puyan Street, Binjiang District, Hangzhou
Product Name	THP01-ZB-V5 Antenna
Product model	THP01-ZB-V5
Antenna Type	FPC Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2483.5MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

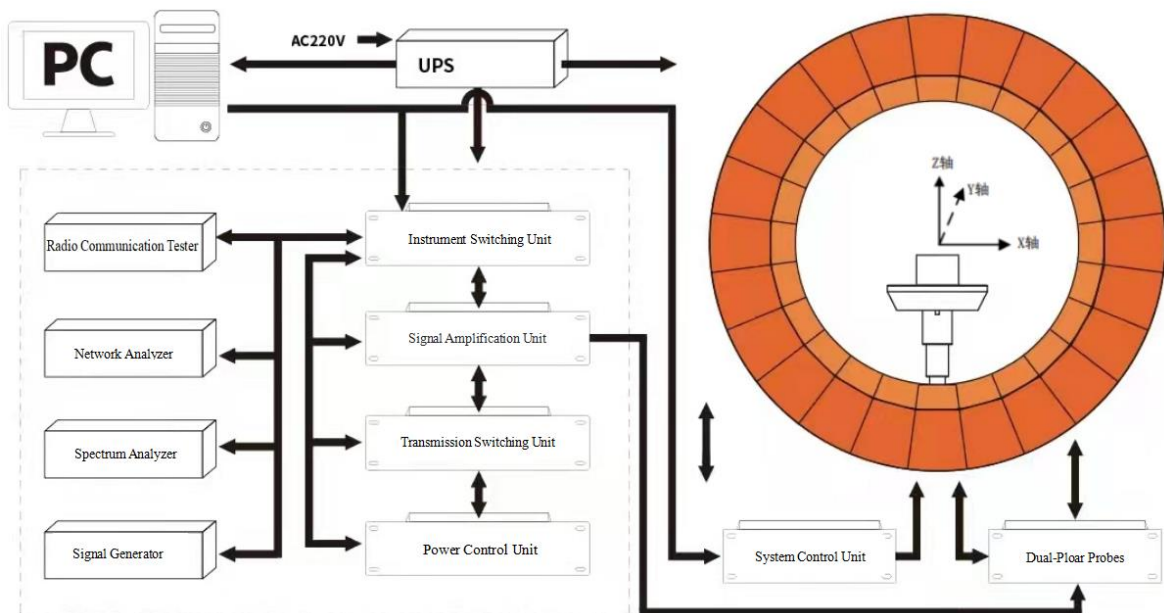
2.1 Test Environment

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



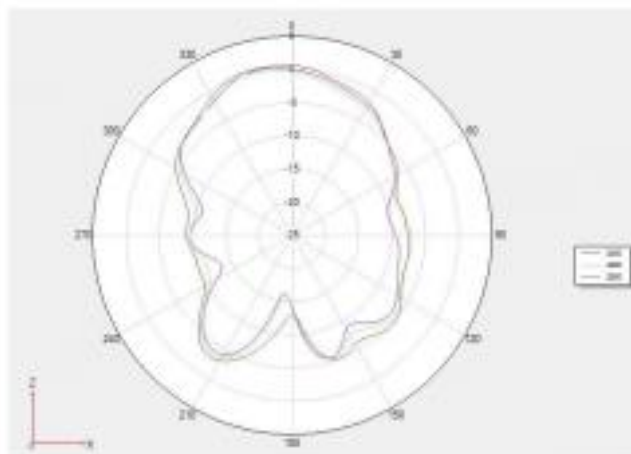


3.Test Results

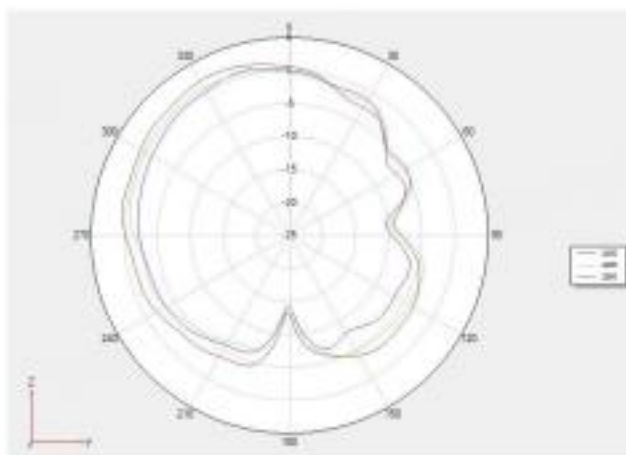
3.1 Gain and Efficiency

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	0.92	40.65
2410	1.13	41.3
2420	0.82	42.27
2430	0.47	40.64
2440	0.47	42.17
2450	0.96	47.42
2460	1.44	48.87
2470	2.45	47.10
2480	2.23	47.32
2490	2.26	47.97
2500	2.06	47.86

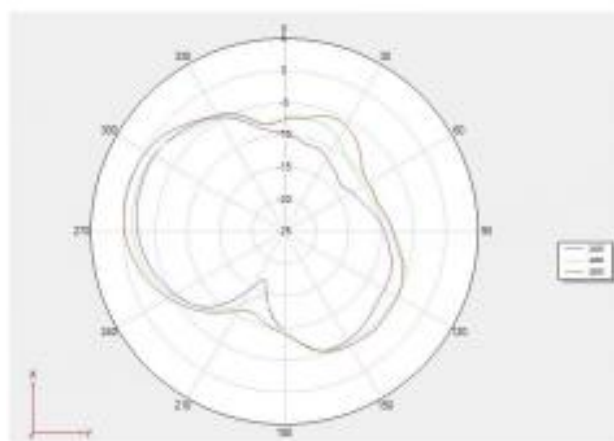
Phi 0 2D



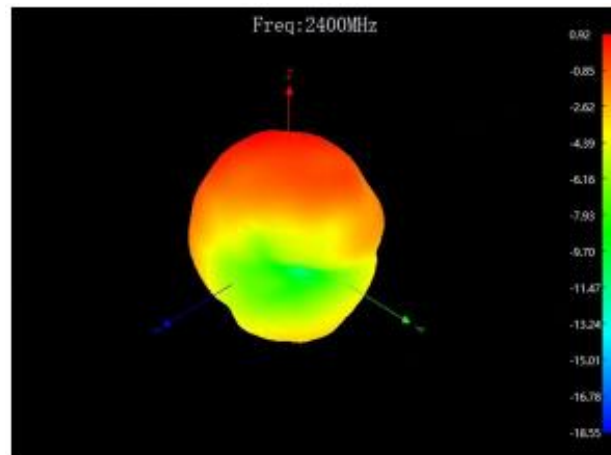
Phi 90 2D



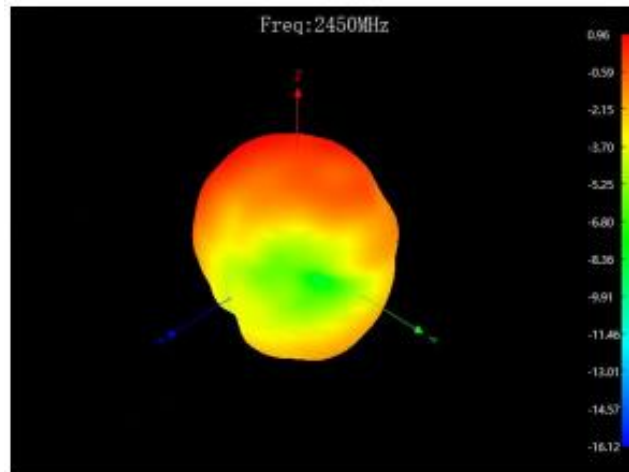
Theta 90 2D



2400MHz 3D



2450MHz 3D



2500MHz 3D

