
Antenna Specification

Manufacture: Espressif Systems (Shanghai) Co.,Ltd.

Product Name: CBU Antenna

Antenna Type: PCB

Test Date: 2020.11.24

Tested by: Yinhua Zhang

Approved by: Licco

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1.General Description

Manufacturer	Espressif Systems (Shanghai) Co.,Ltd.
Address	3rd Building, Lane 235, Yubu Road, Pudong New Area , Shanghai, 1st to 7th Floor
Test Location	3rd Building, Lane 235, Yubu Road, Pudong New Area, Shanghai, 1st to 7th Floor
Product Name	CBU Antenna
Product model	CBU
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

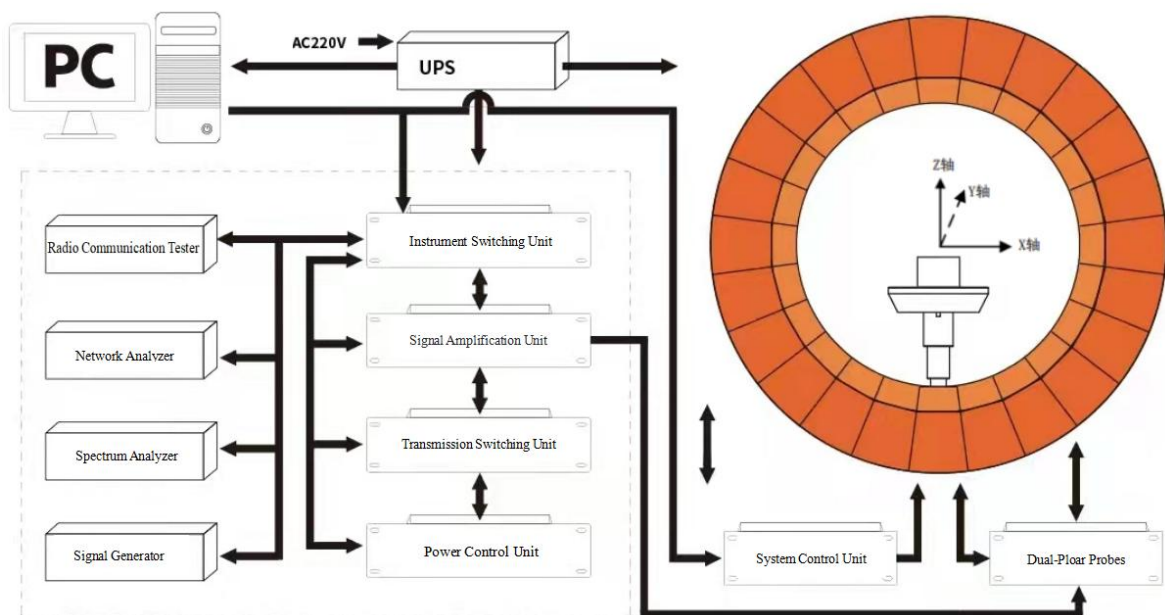
2.1 Test Environment

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



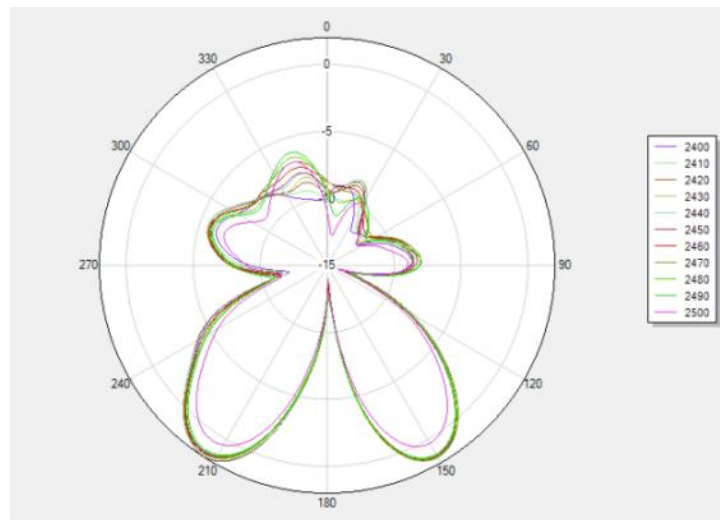
3.Test Results

3.1 Gain and Efficiency

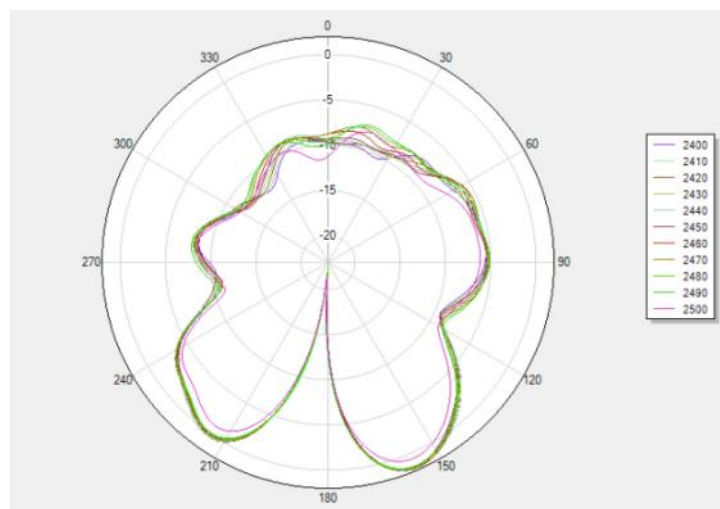
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	2.11	32.36
2410	2.18	32.3
2420	2.20	32.1
2430	2.06	32.4
2440	2.07	32.9
2450	1.91	30.9
2460	2.04	30.8
2470	3.96	30.7
2480	2.98	31.6
2490	2.91	30.6
2500	2.03	30.5

3.2 Radiation Pattern

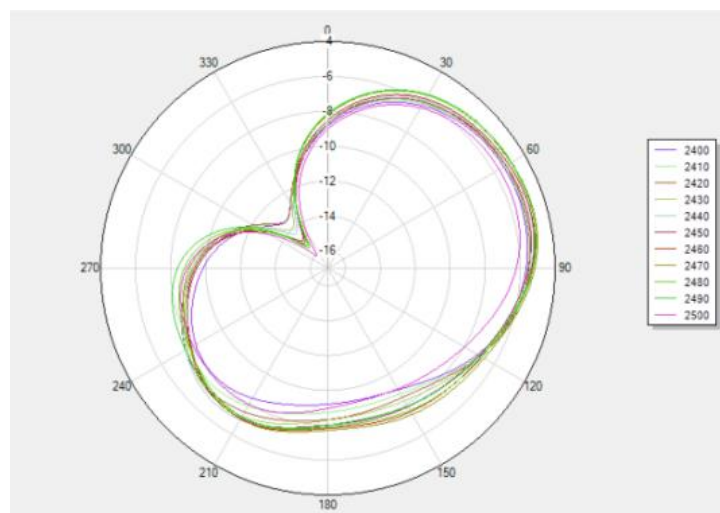
Phi 0 2D



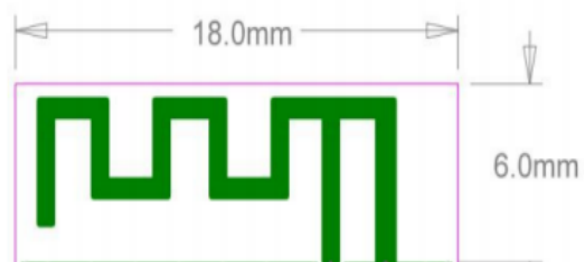
Phi 90 2D



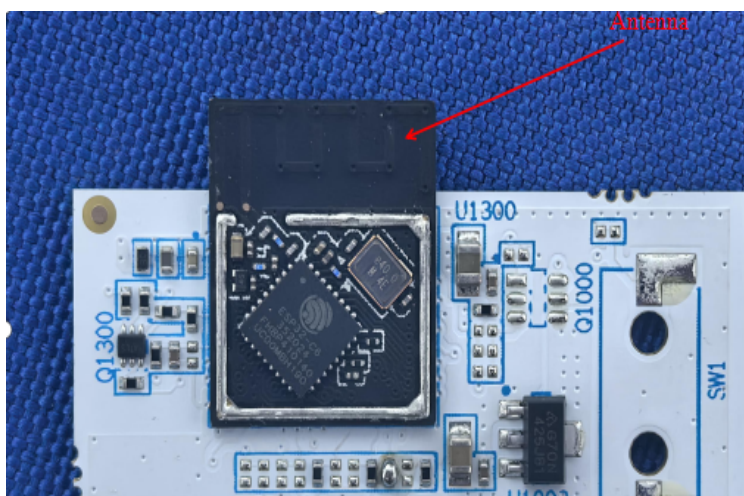
Theta 90 2D



4. Antenna Dimensions



5. EUT Photo



6.Test Setup Photo

