



Specification for copper tube wifi antenna

0404-L200-T25

1. Project information and Electrical Specification

Those specifications were specially defined for WIFI model, and all characteristics were measured under the model's handset testing jig .

1-1Antenna picture



1-2 Frequency Band:

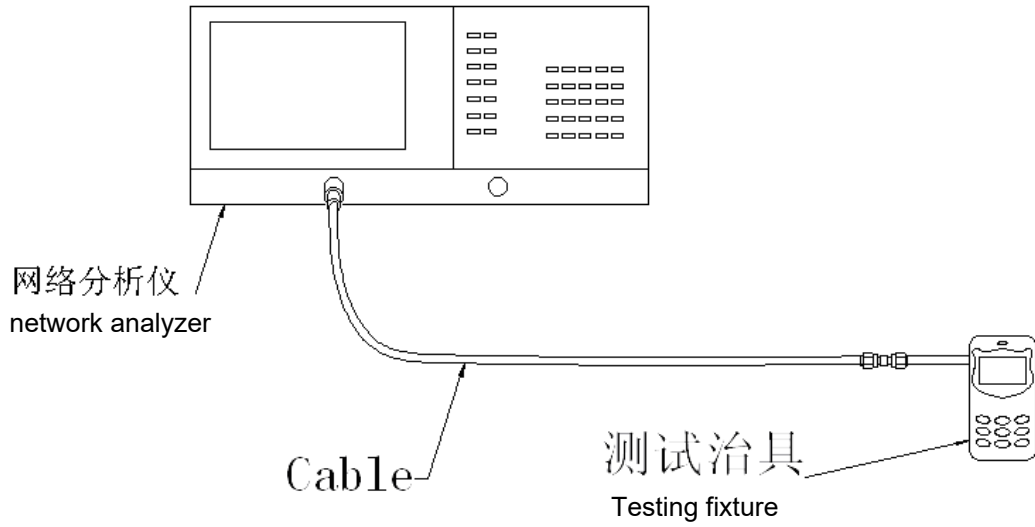
Frequency Band	MHz
WiFi	2400-2500

2.VSWR

2-1 Measuring Method:

- 1. A 50Ωcoaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,*
- 2. Keeping this jig away from metal at least 20cm.*

Test diagram:



2-2 S11 parameter values

频率 (MHZ)	2400	2500
驻波 standing wave	1.38	1.50



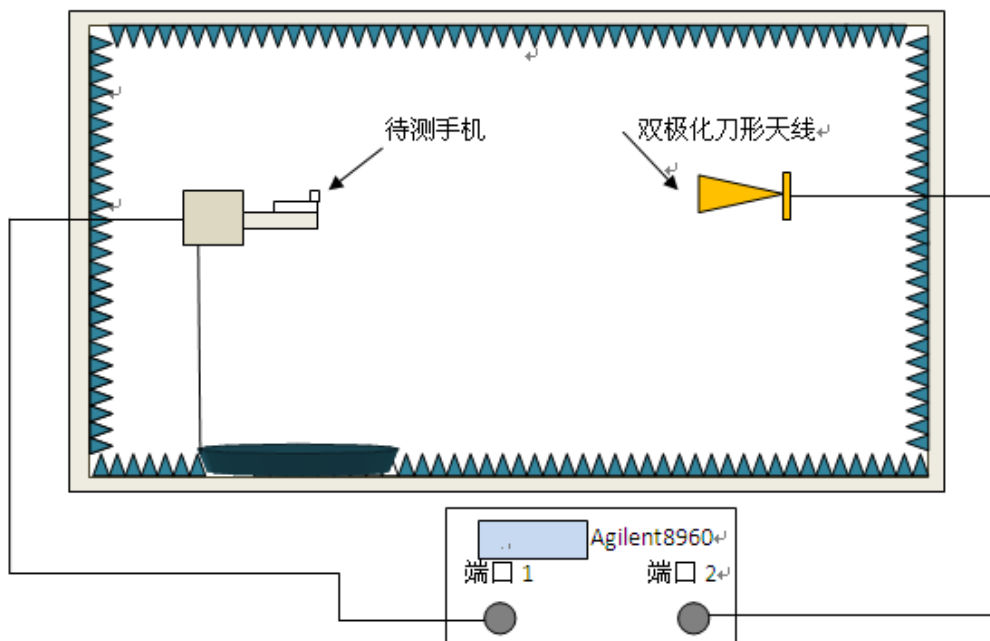
3. Efficiency and Gain

*measuring and test instruments:

Microwave darkroom, Agilent network analyzer, Agilent spectrum analyzer, 8960 comprehensive tester, standard antenna.

*test method:

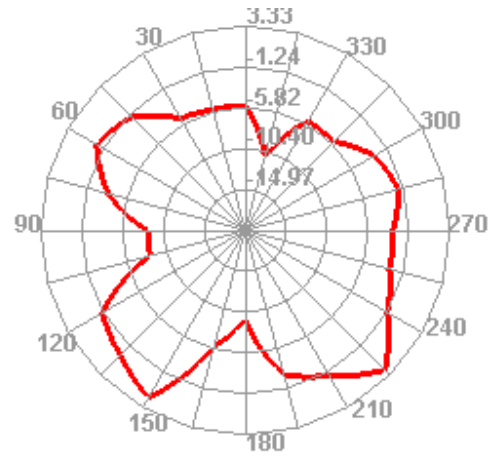
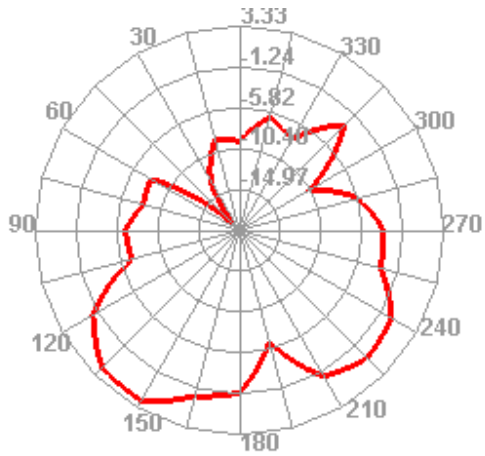
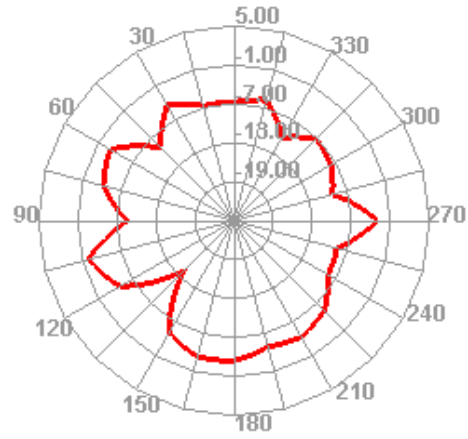
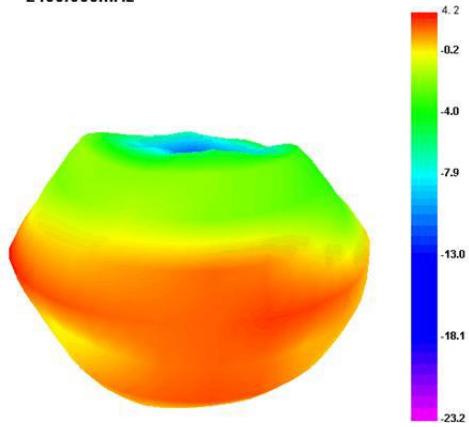
The equipment is fixed in the center position of the turntable with plane H, on the same horizontal line with the center position of the horn antenna.



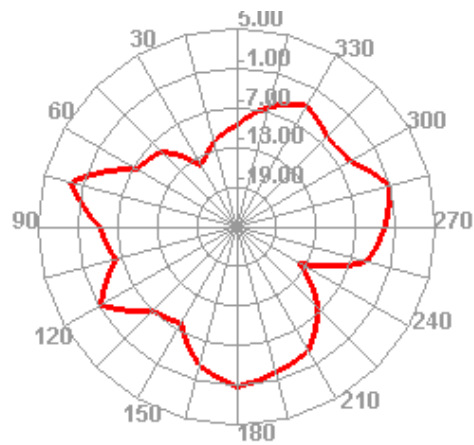
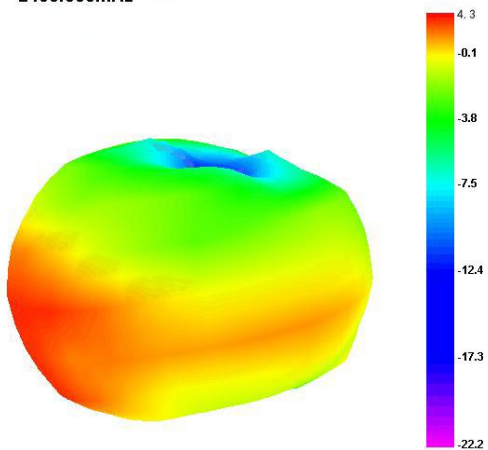
3-1 Efficiency/Gain- WIFI

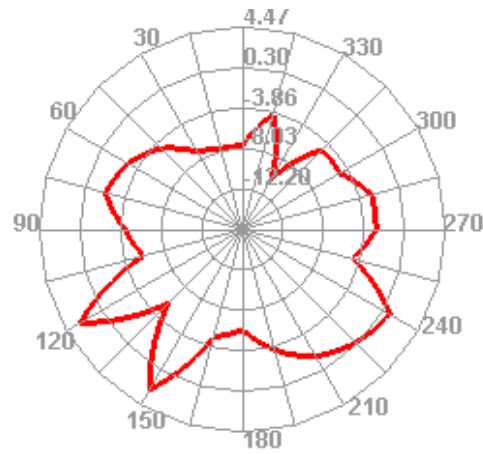
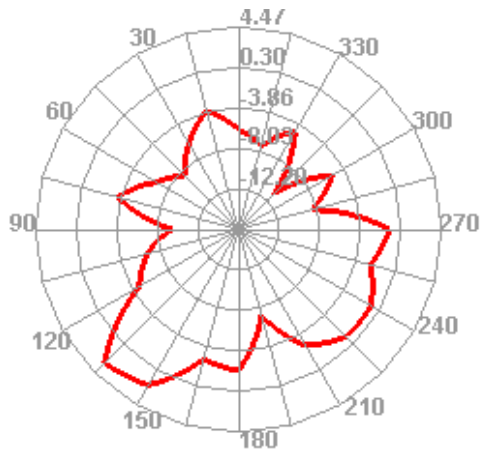
BAND	WIFI		
Freq.[MHZ]	2400	2450	2500
Eff.[%]	54.85	56.34	55.88
Peak Gain [dBi]	4.21	4.26	4.24

2400.000MHz

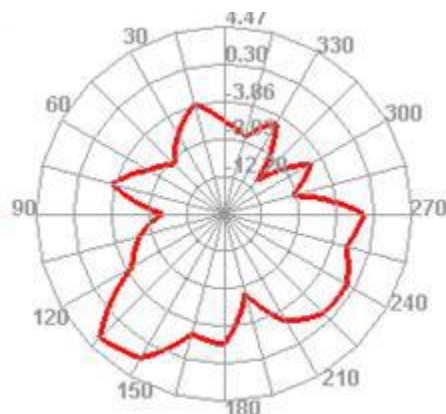
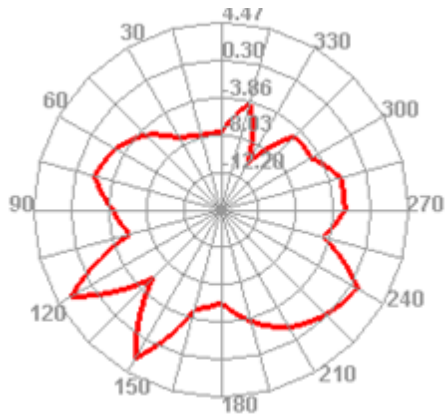
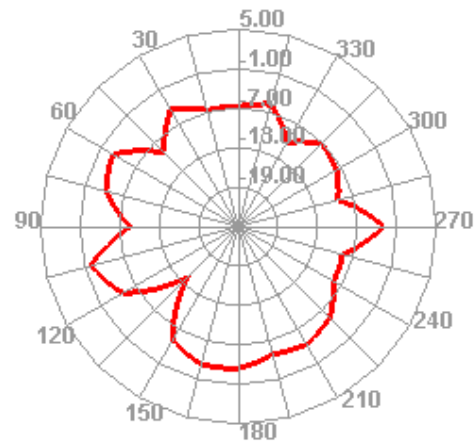
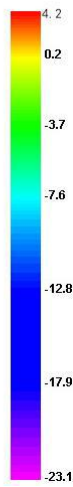
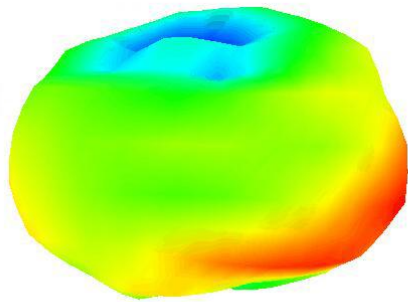


2450.000MHz





2500.000MHz



4. The production index

In the mass production of antenna, the standing wave ratio is used as the mass production test standard.

According to the differences of the project itself, the following criteria are given:

Frequency	Mass production standard
WIFI (2400-2500MHz)	VSWR<VSWR+0.5

5.structural drawings

