



SHENGZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

Mobile communication terminal antenna
Product design and manufacturing specifications

◆ Customer: Vanstone

◆ Project: Q191

◆ Name: WIFI Antenna

PCB ☒ FPC ☐ support ☐ coaxial ☐

◆ Part no:

◆ Designer:

◆ Check:

◆ Approved:

Add:Room 505, Building 8, Yungu Phase II, Pingshan 1st Road, Xili Town, Nanshan

District, Shenzhen

Tel:86-755-83763273

Fax:86-755-83763348

Email: dbt1668@163.com

Content

1. Antenna finished product
2. Technical indicators
3. S11 VSWR/Impedance Test Results
4. Dynamic test data
5. Antenna actual test data

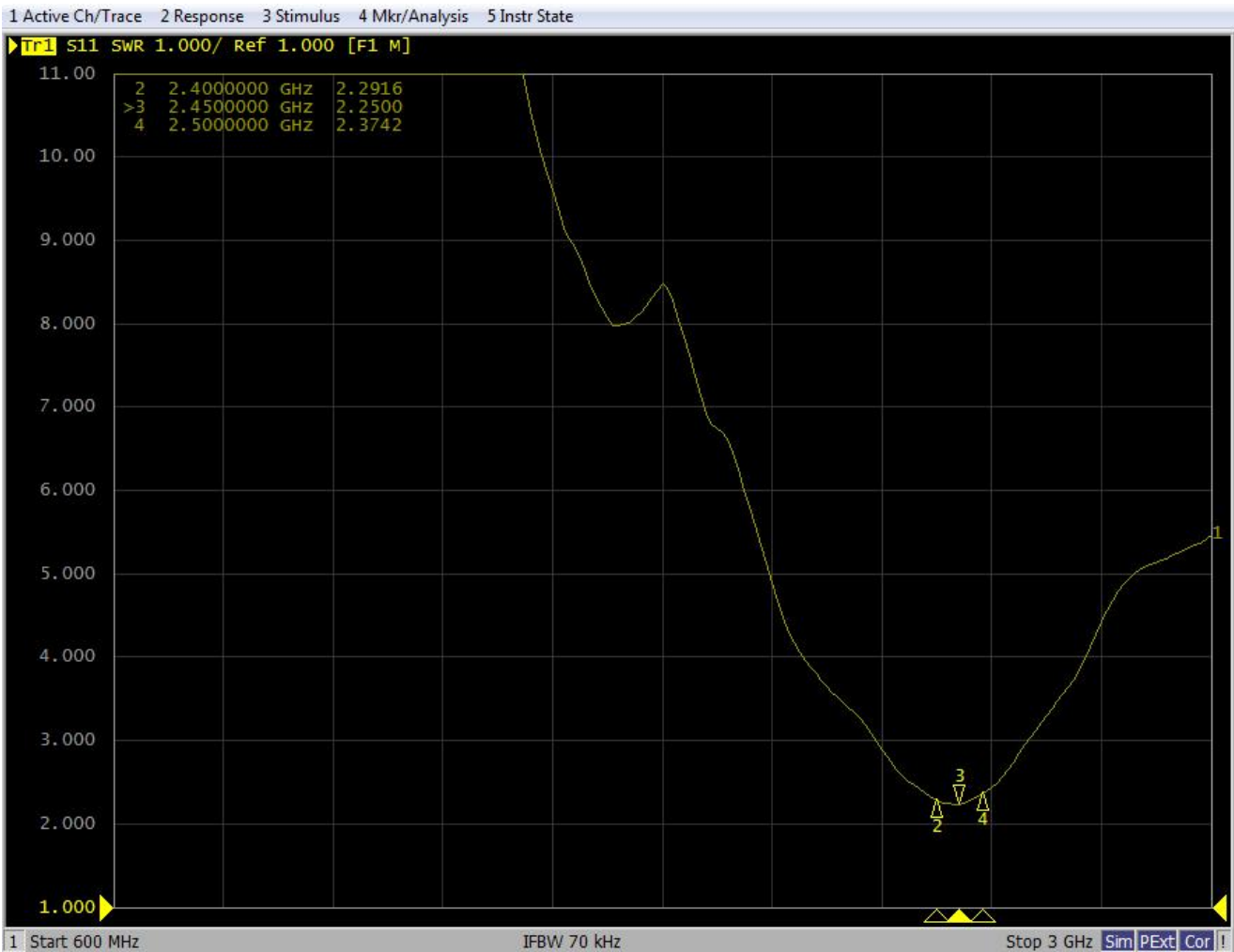
1. Antenna finished product



2. Technical indicators

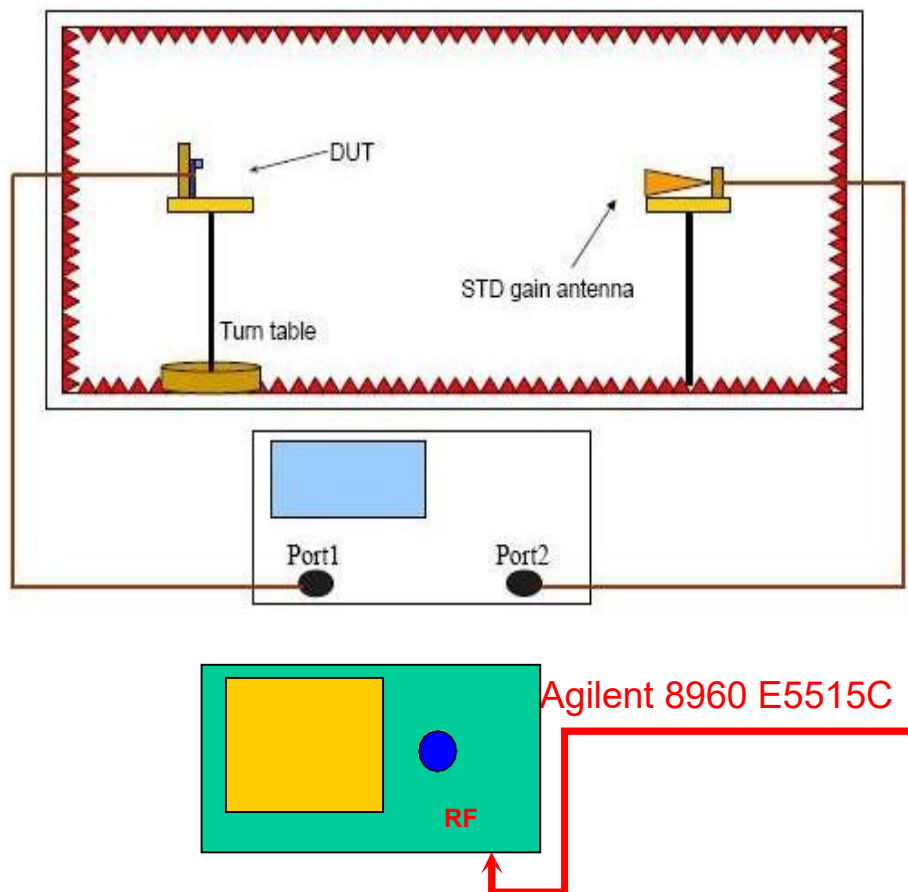
A. Electrical properties	
Operating frequency range	2400 ~2500 MHz
Standing wave ratio	2400 ~2500MHz: < 2.5
Antenna gain(Max)	2400 ~2500MHz: 1.11dBi
Antenna efficiency (average)	2400 ~2500 MHz: 28.3 %
Impedance	50 ohm
B. Material	
FR4	
C. Environment	
Operating temperature	- 40°C ~ + 85 °C
Stored temperature	- 40°C ~ + 85 °C

3.S11 VSWR/Impedance Test Results



4.Dynamic test data

Test instrument: Agilent 8960 E5515B+ Shield Box

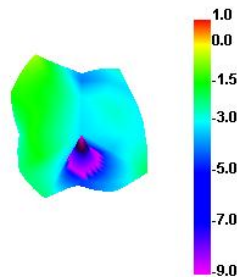


5. Antenna actual test data

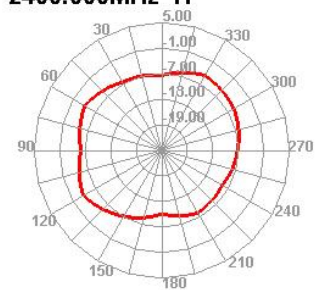
Passive Efficiency/Gain/Pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	27.83	1.03
2410	30.12	1.11
2420	29.18	0.67
2430	31.03	1.08
2440	31.59	0.39
2450	30.64	0.49
2460	27.53	-0.6
2470	25.93	-0.33
2480	25.34	-0.48
2490	26.74	0.03
2500	25.11	-0.66

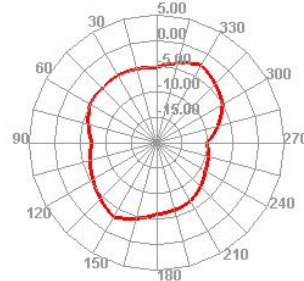
2400.000MHz



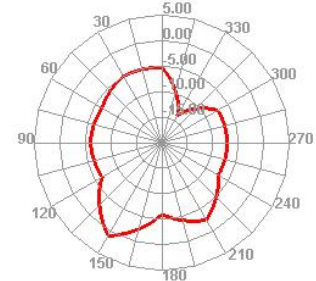
2400.000MHz H



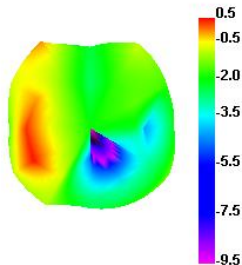
2400.000MHz E1



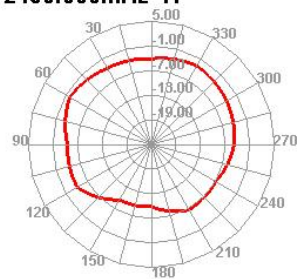
2400.000MHz E2



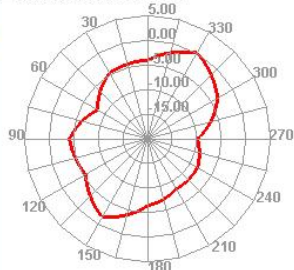
2450.000MHz



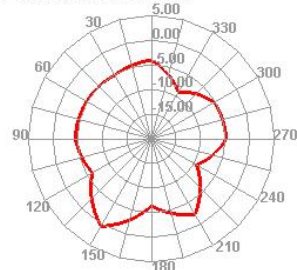
2450.000MHz H



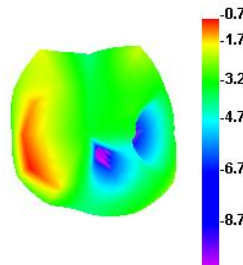
2450.000MHz E1



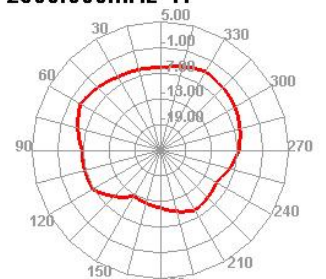
2450.000MHz E2



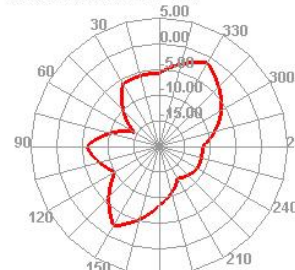
2500.000MHz



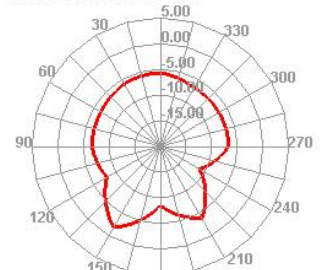
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Note:

- 1. The above test results are limited to the test prototype**
- 2. Changes in the overall casing material process, software version, accessories (camera FPC, speakers, earpieces, motors, batteries, etc.), and chips will lead to changes in the performance of the overall antenna.**
- 3. Changes in the environmental processing of the whole machine (such as grounding position, size, shielding method, etc.) lead to changes in the performance of the whole machine**

Solemnly declare:

The intellectual property rights of this antenna design and research and development are owned by our company. If we find that the same products are supplied to your company without our permission, our company will investigate the corresponding legal responsibilities according to law. Please respect the intellectual property rights. Your support is our unlimited power. , thank you for your cooperation!