

天线规格书

Antenna specification

1、天线类型：板载天线

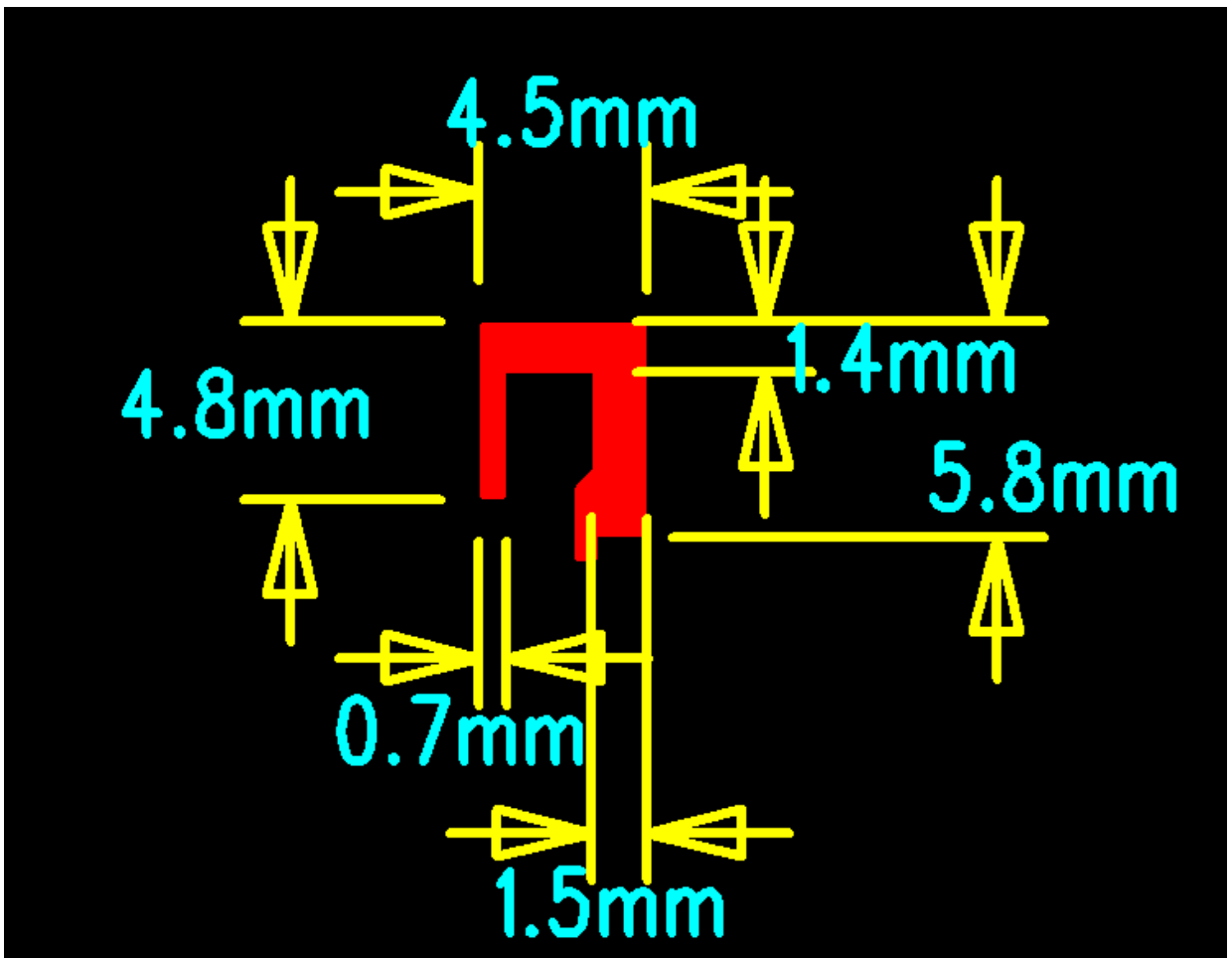
Antenna type: On-board antenna

2、天线厂家：深圳辽原科技有限公司

Antenna manufacturer: Yanshan Xingao Electronic Technology Co., Ltd.

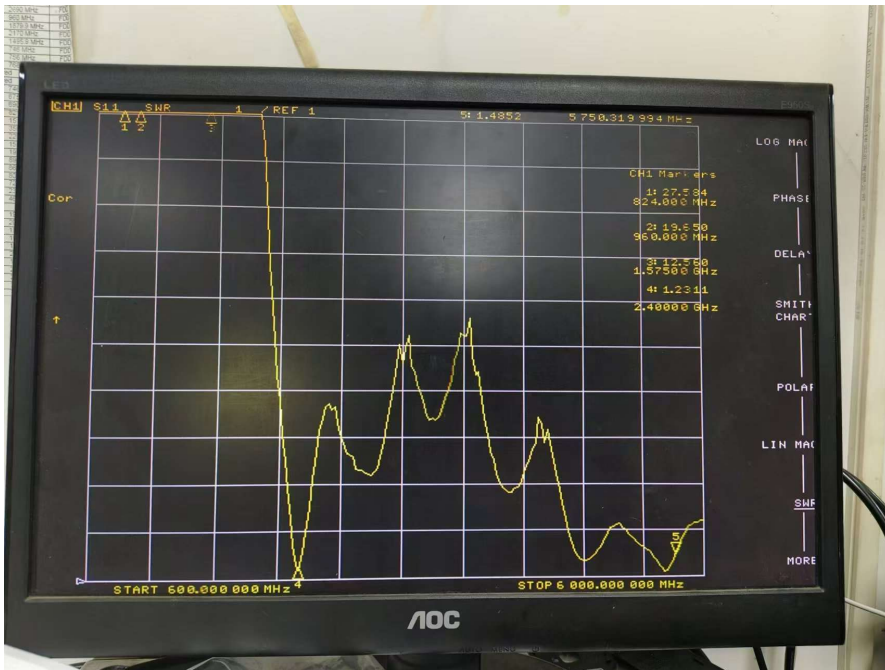
3、实物照片，图纸。

Antenna photo and drawings:



4、天线频率，效率，增益。

Antenna efficiency, frequency, and gain



1-2 Frequency Band:

Frequency Band	MHz
WiFi/BT 频率	2380-2500 4900~5800
ANT GAIN	1.3db
调试类别	同轴线+PCB焊接

1-3 Impedance matching

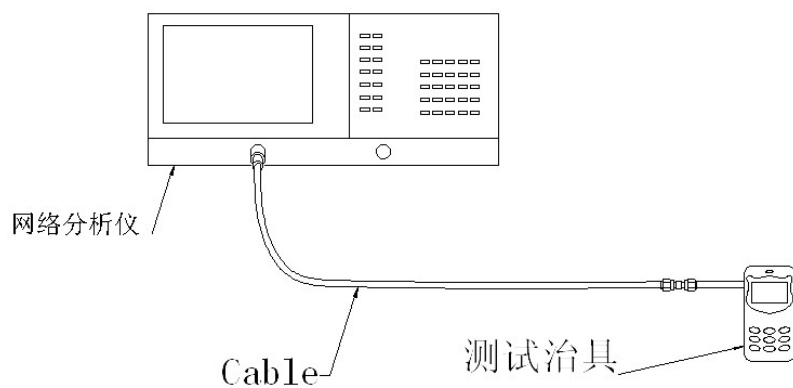
天线原匹配

2.VSWR

2-1 Measuring Method:

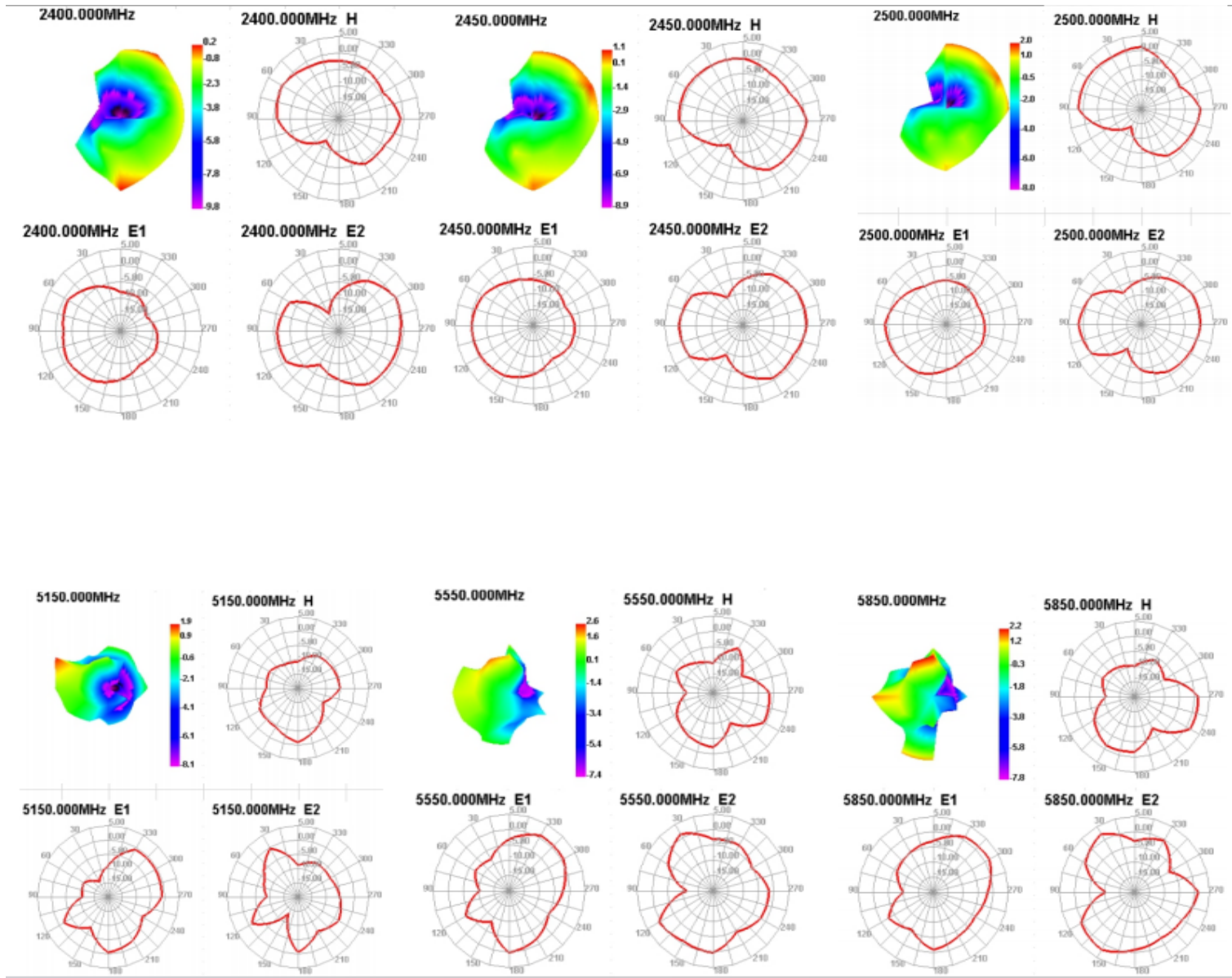
1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm.

测试示意图如下：



2-2 S11 parameter values

频率 (MHZ)	2400	5500	5800
驻波	1.2	1.8	1.6



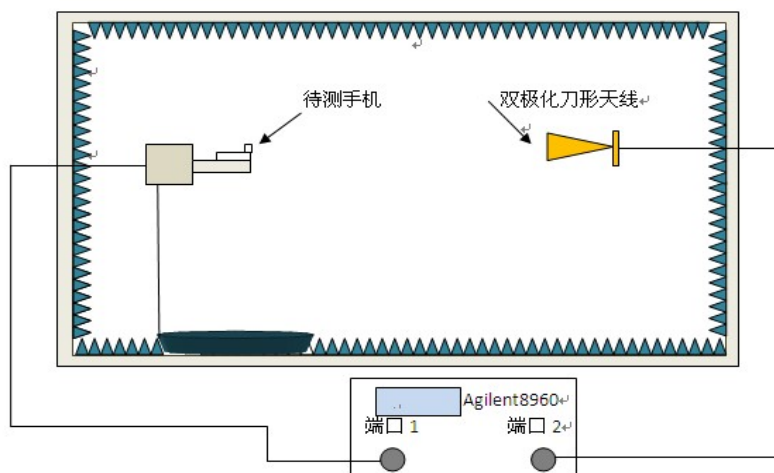
2. Efficiency and Gain

3. *measuring and test instruments:

微波暗室，Agilent 网络分析仪，Agilent 频谱分析仪，8960 综合测试仪，标准天线

***test method:**

equipment 以 H 面放于转台中心位置固定，与喇叭天线中心位置在同一个水平线上。



3-1 Efficiency/Peak Gain-

2. 4G

Test Result	802.11B, Wifi 2.4G 11M		
	12	6	1
Frequency (MHz)	2467	2437	2412
TRP (dBm)	13.33	13.96	13.69
TIS (dBm)	-79.01	-80.07	-79.32

5. 8G

Test Result	802.11A, Wifi 5, 8G 54M		
	36	149	161
Frequency (MHz)	5180	5745	5805
TRP (dBm)	11.33	12.16	12.69
TIS (dBm)	-72.01	-70.07	-71.32

4. The production index

天线量产时，以驻波比作为量产测试标准。根据项目本身的差异, 给出如下标准：

频率	量产标准
WIFI /BT(2400-2500MHZ)	VSWR (量产产品) < VSWR(设计样品)+0.5