

TWX-152-011-MAIN-V0

WIFI 天线规格书

客户：Shenzhen Lanjin Technology			项 目 名 称： HCAR4000-MI
频段： 5G		日期： 2021.04.26	版本： R:A
研发	结构：	审核：	批准：
	射频：	审核：	
客户审核：			客户批准：

天线：5.8gwifi 天线 TWX-152-011-MAIN-V0

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1. Project information and Electrical Specification

Those specifications were specially defined for 2.4G/5G model, and all characteristics were measured under the model's handset testing jig .

1-1Antenna picture

1-2 Frequency Band:

Frequency Band	MHz
5G	4950-5850

1-3 Impedance matching

天线原匹配

2.VSWR

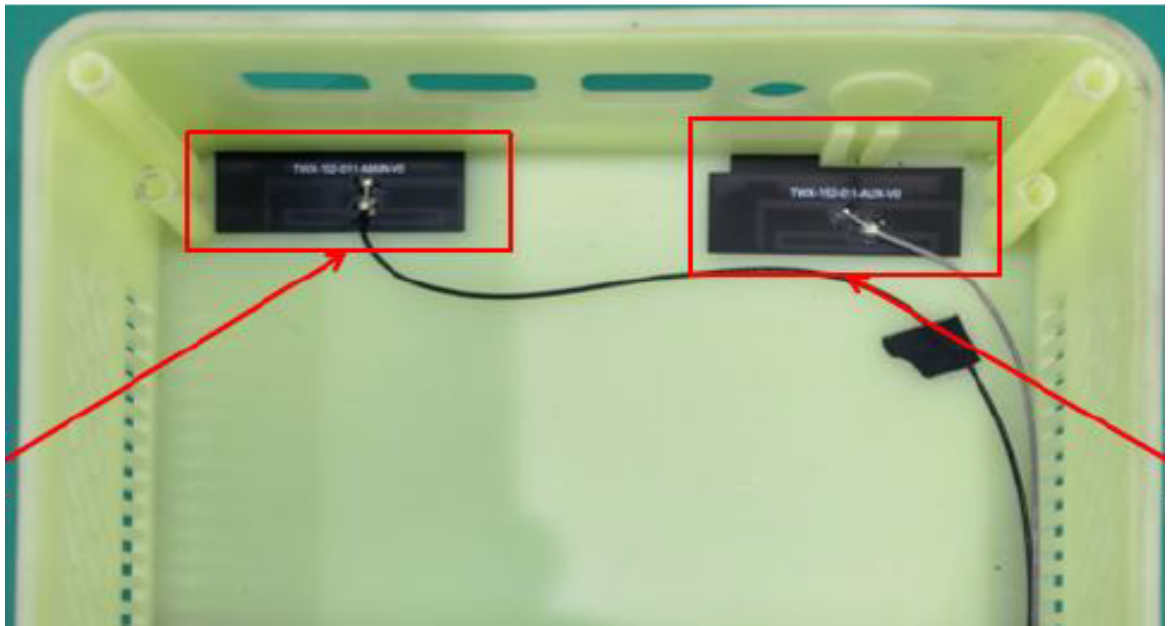
2-1 Measuring Method:

- 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.*

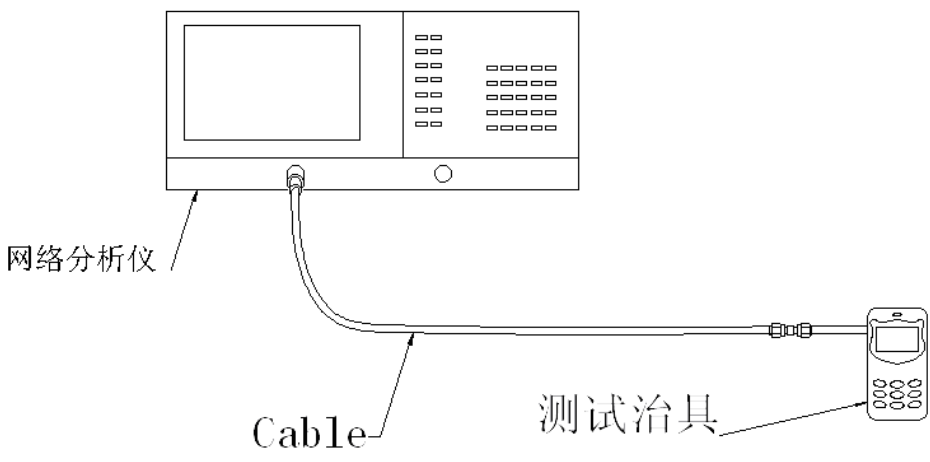
天线装配图跟实物

天线：5.8gwifi 天线





测试示意图如下：



2-2 S11 parameter values

频率 (MHZ)	4950	5400	5850
驻波	1.78	1.63	1.23



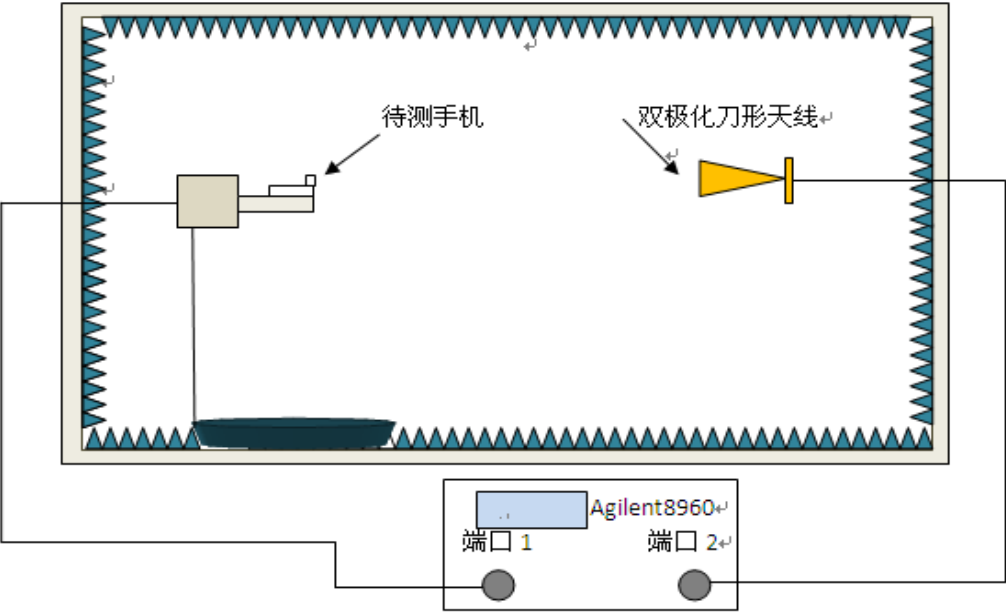
3. Efficiency and Gain

***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:**

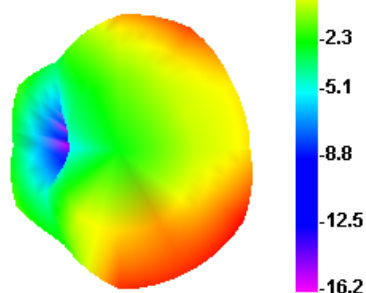
equipment 以 H 面放于转台中心位置固定，与喇叭天线中心位置在同一个水平线上。



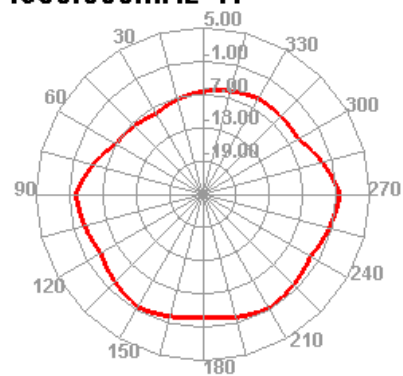
3-1 Efficiency/Gain- WIFI

Passive Test For 5.8								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
4950	53.52	-2.71	2.33	0.18	2.33	-16.16	62.44	62.5
5400	66.72	-1.76	4.64	2.49	4.64	-19.6	63.55	63.99
5850	64.22	-1.92	3.44	1.29	3.44	-11.42	66.35	66.32

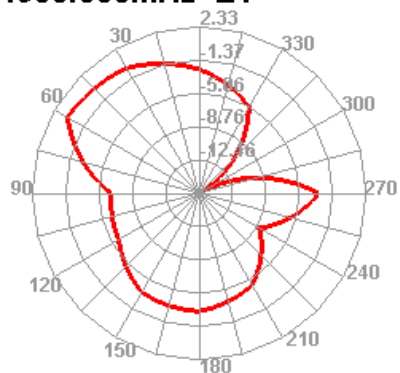
4950.000MHz



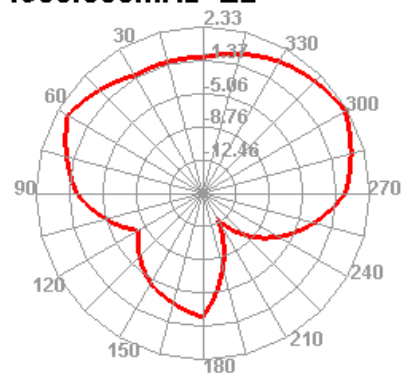
4950.000MHz H



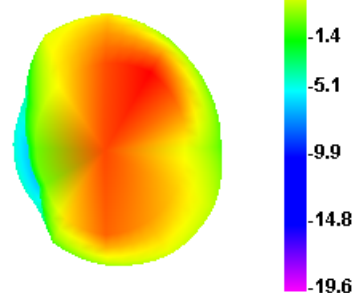
4950.000MHz E1



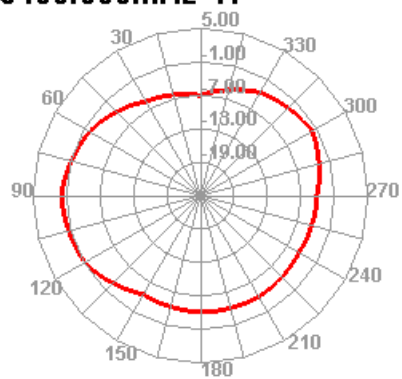
4950.000MHz E2



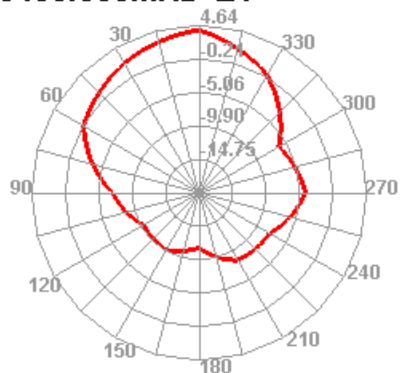
5400.000MHz



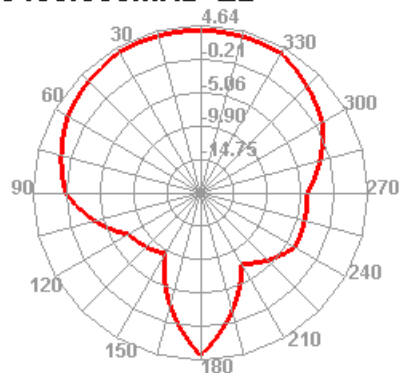
5400.000MHz H

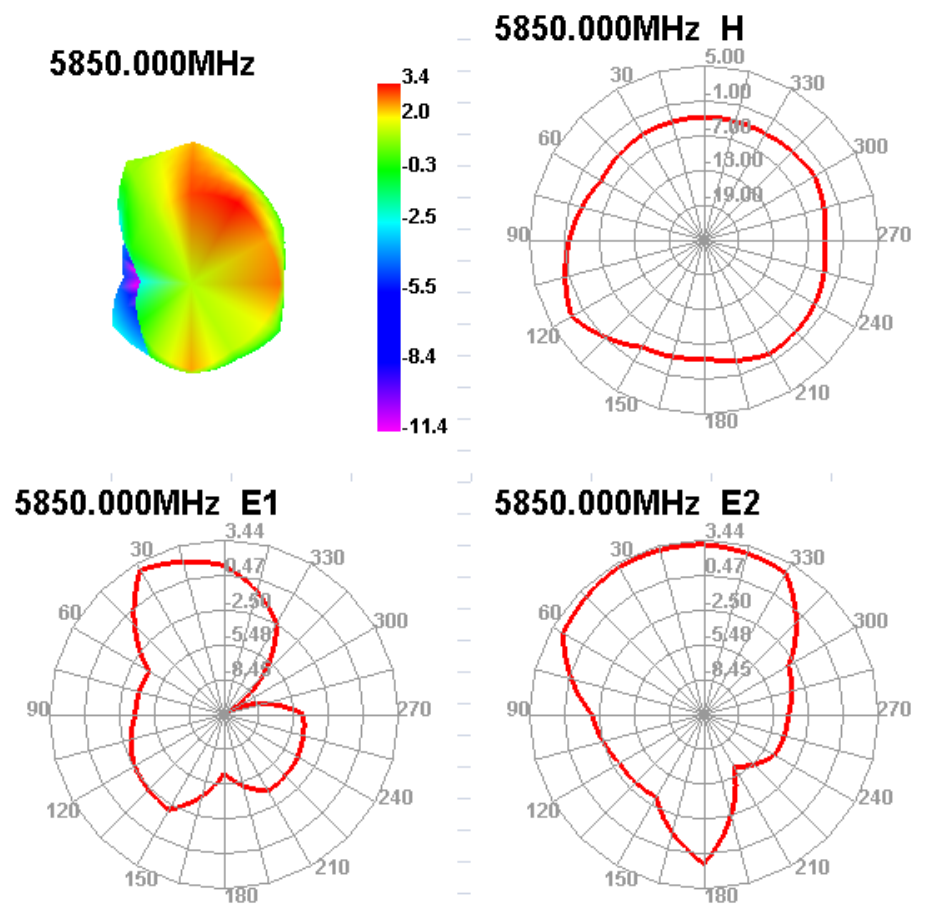


5400.000MHz E1



5400.000MHz E2





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 (4950-5850MHZ)	VSWR (量产产品) < VSWR(设计样品)+0.5

