



深圳信诺山通信技术有限公司

Shenzhen Signalsen Telecom Technology Co., Ltd

WIFI 天线规格书

物料编号: W693-1B50B-A

客户: 瑞扩		项目名: R10
频段: 2.4G	日期: 2022.08.26	版本: R:A
研发	结构:	审核:
	射频:	审核:
客户审核:		客户批准:

1. Project information and Electrical Specification

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

1-1 Project picture

1-2 Frequency Band:

Frequency Band	MHz
WiFi/BT	2400-2500

1-3 Impedance matching

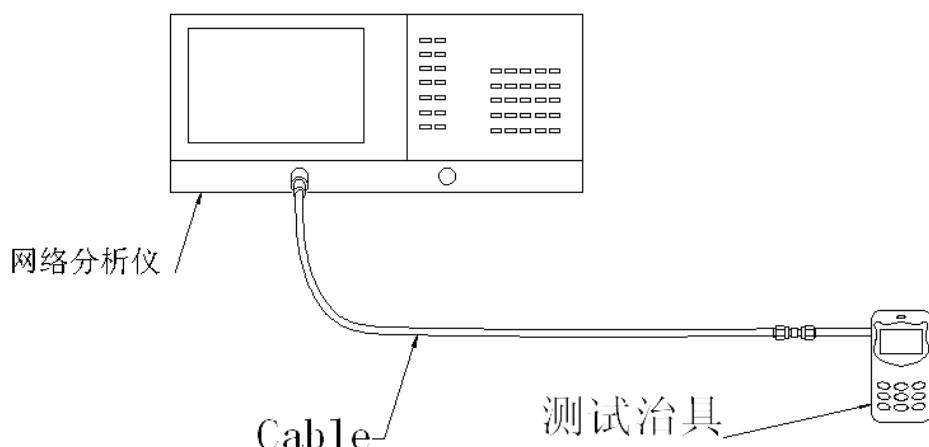
天线原匹配

2.VSWR

2-1 Measuring Method:

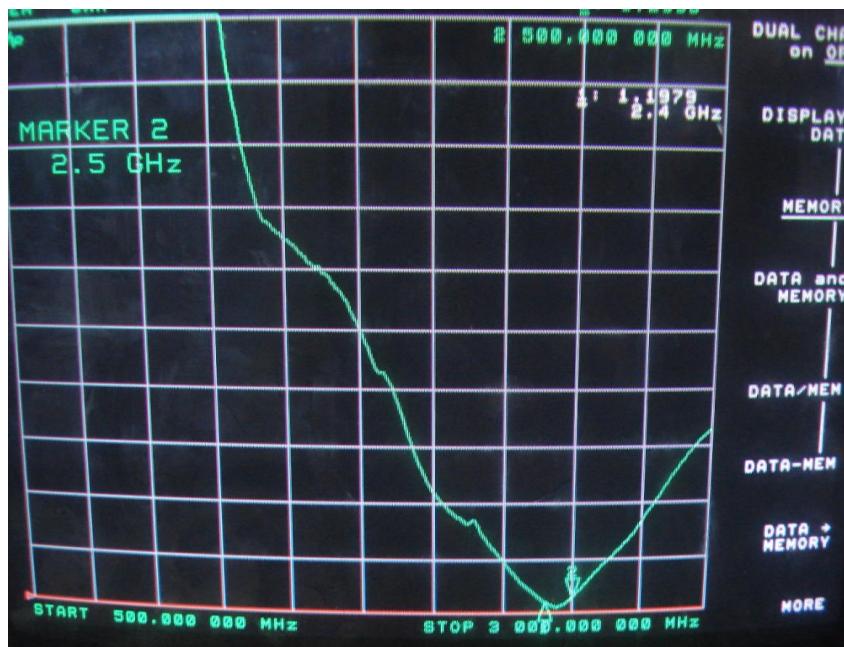
1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm.

测试示意图如下：



2-2 S11 parameter values

频率 (MHZ)	2400	2500
驻波	1.19	1.42



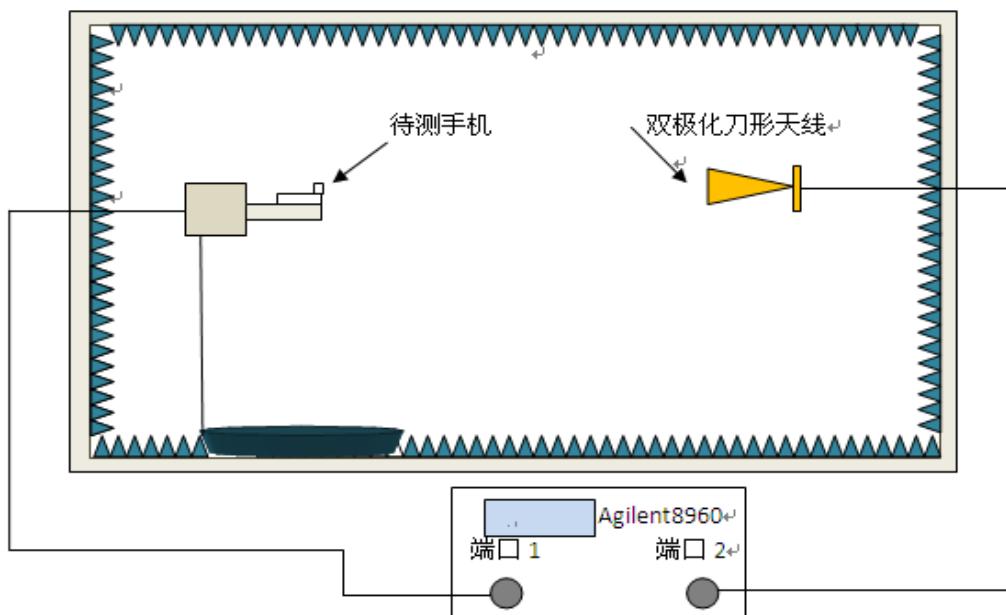
3. Efficiency and Gain

*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

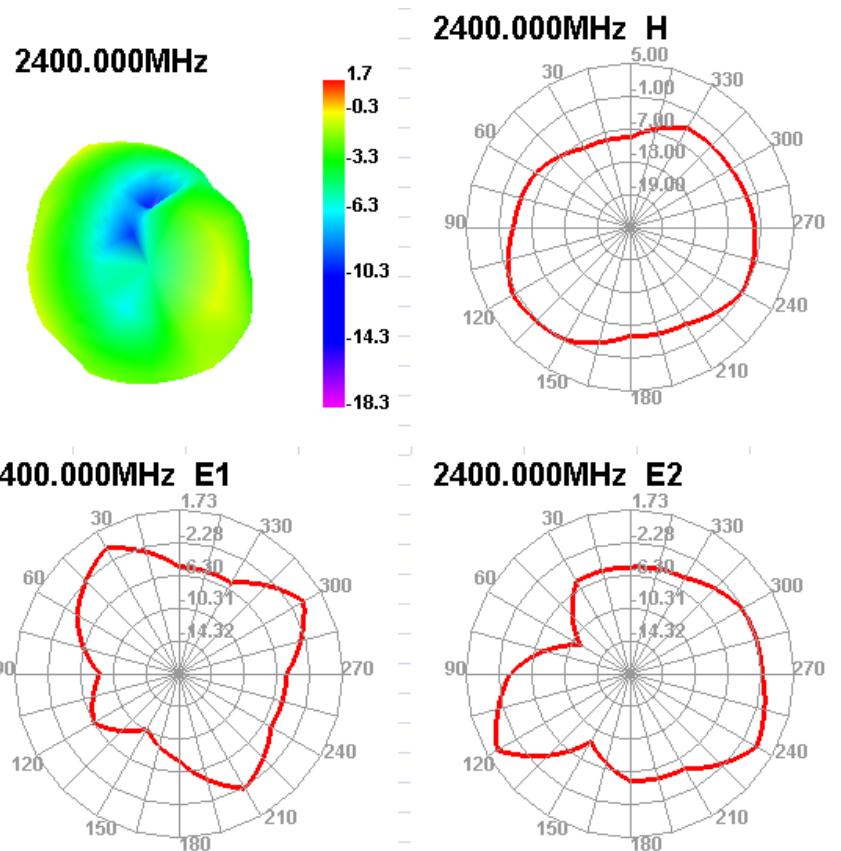
*test method:

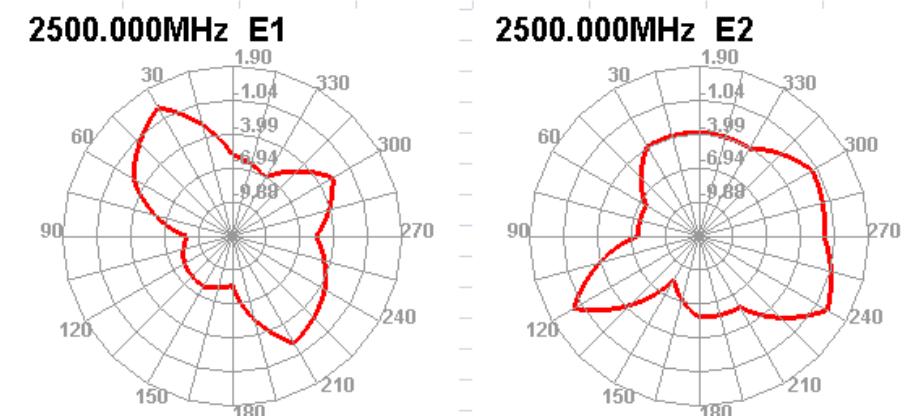
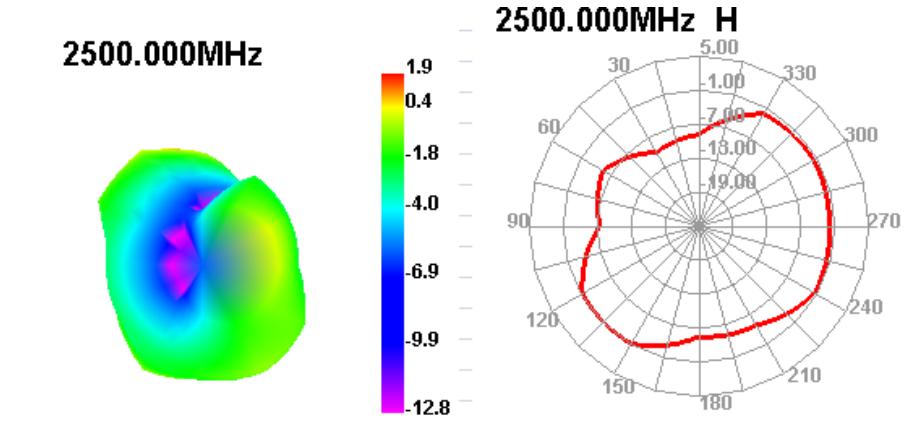
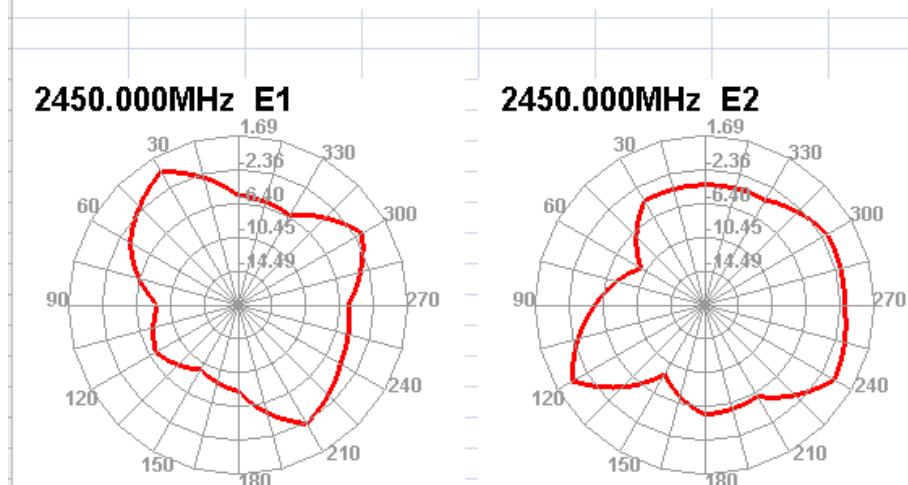
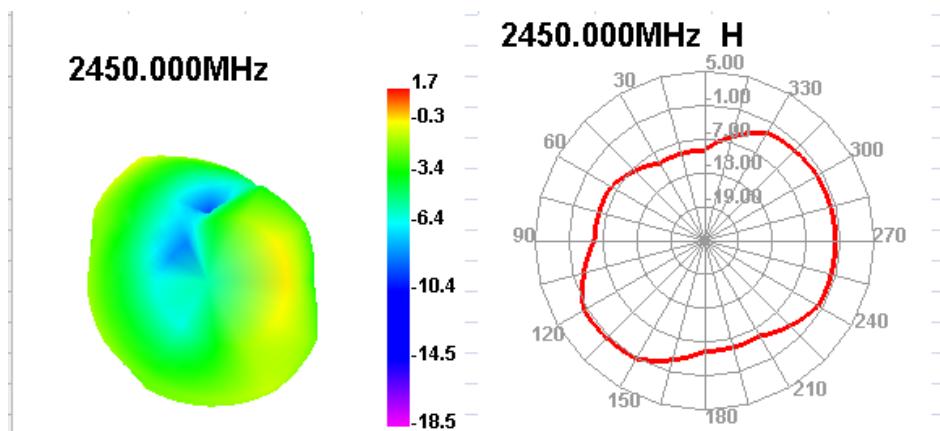
equipment 以 H 面放于转台中心位置固定, 与喇叭天线中心位置在同一个水平线上。



3-1 Efficiency/Peak Gain- WIFI/BT

Passive Test For WIFI_BT								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	50.67	-2.95	1.73	-0.42	1.73	-18.33	51.53	51.61
2450	50.75	-2.95	1.69	-0.46	1.69	-18.53	51.67	51.63
2500	51.75	-2.86	1.9	-0.25	1.9	-12.83	51.56	51.46





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

5. Structural drawings

