



# 深圳信诺山通信技术有限公司

*Shenzhen Signalsen Telecom Technology Co., Ltd*

## BT 天线规格书

物料编号：W183-1B200B-A

客户：		项目名：
频段：BT	日期：2022.08.30	版本：R:A
研发	结构： 射频：	审核： 审核：
客户审核：		客户批准：

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## 1. Project information and Electrical Specification

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

1-1 Antenna picture



1-2 Frequency Band:

Frequency Band	MHz
BT	2400-2500

1-3 Impedance matching

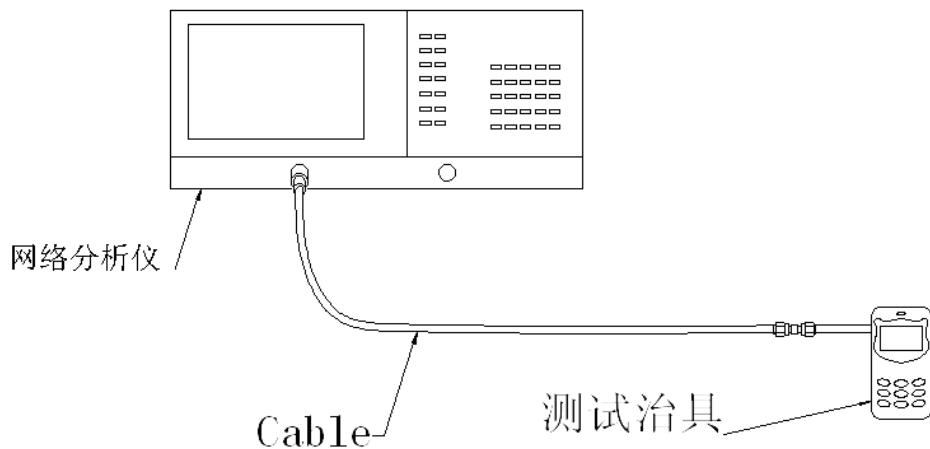
天线原匹配

## 2.VSWR

### 2-1 Measuring Method:

1. A  $50\Omega$  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	1.04	1.32



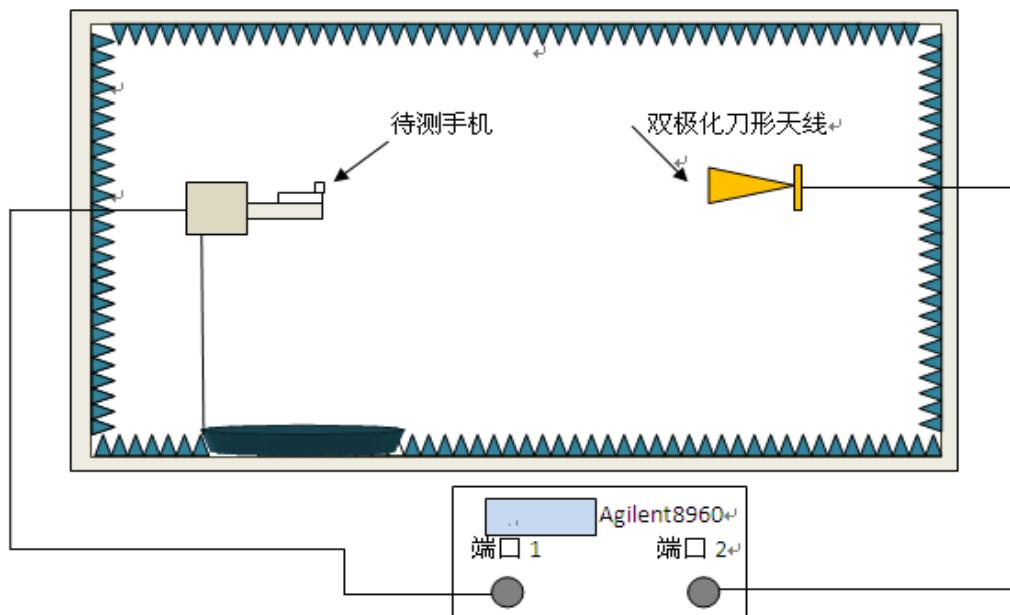
## 3. Efficiency and Gain

### \*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

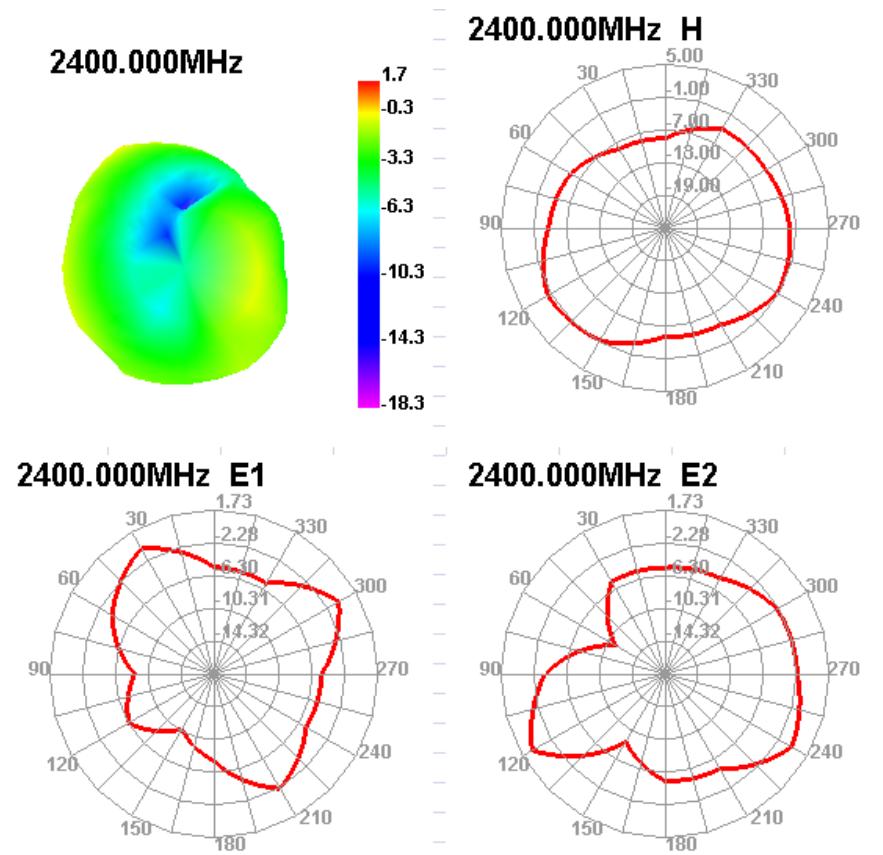
### \*test method:

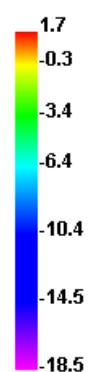
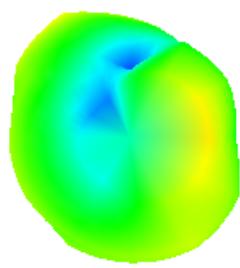
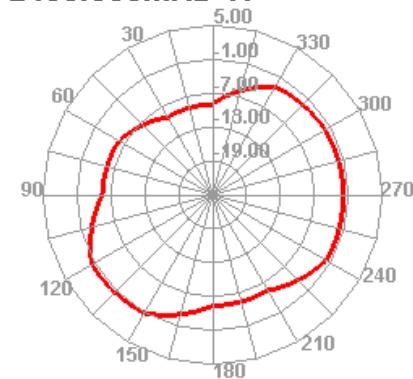
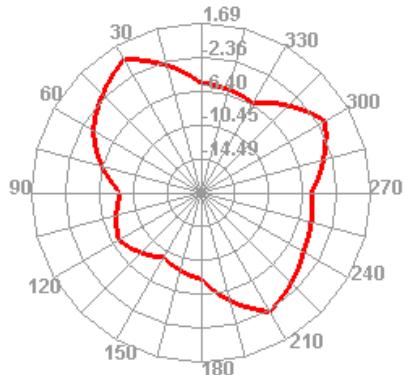
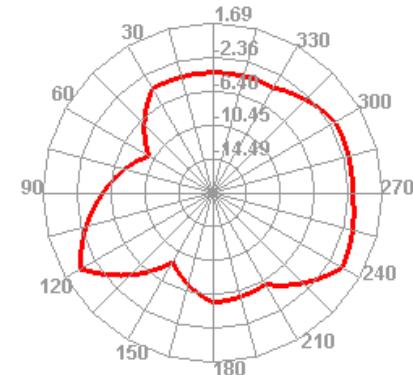
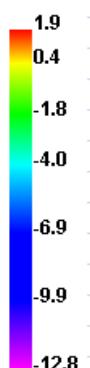
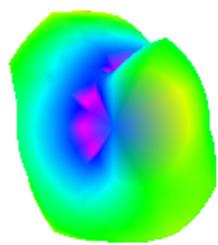
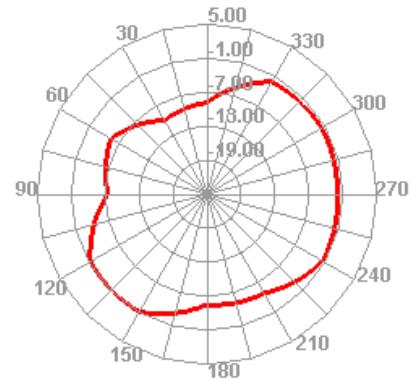
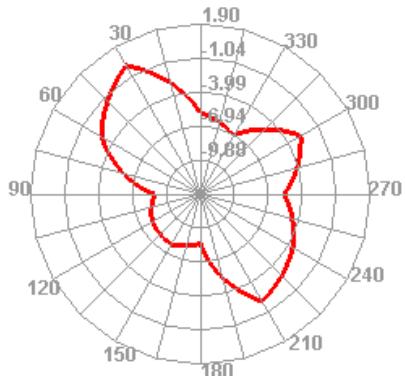
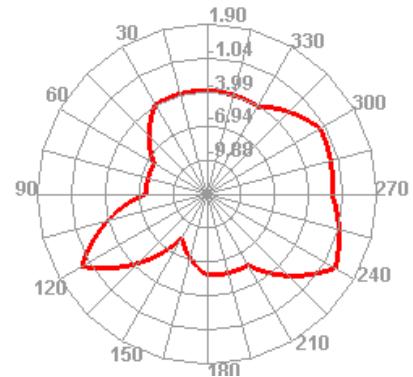
equipment 以 H 面放于转台中心位置固定, 与喇叭天线中心位置在同一个水平线上。



### 3-1 Efficiency/Gain- BT

Passive Test For WIFI_BT								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBD)	Max (dB)	Min (dB)	Attenuat Hor	Attenuat 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



**2450.000MHz****2450.000MHz H****2450.000MHz E1****2450.000MHz E2****2500.000MHz****2500.000MHz H****2500.000MHz E1****2500.000MHz E2**



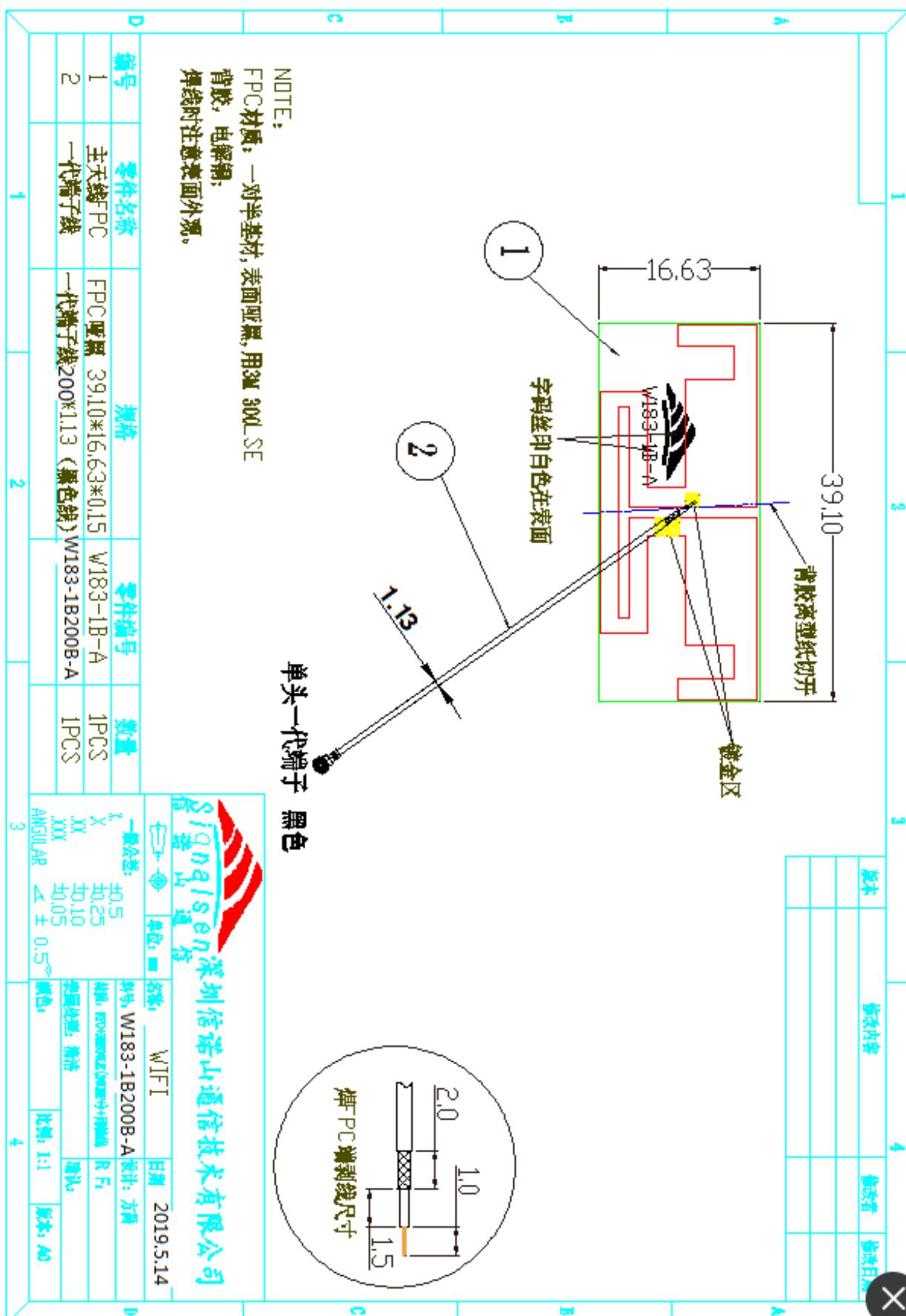
#### 4. The production index

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
BT (2400-2500Mhz)	VSWR (量产产品) < VSWR(设计样品)+0.5

## 5. structural drawings



备注：增益测试设备及环境如图：

