



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

WiFi Antenna specification

我司料号 Our material No: W784-1B50B-A

Antenna type:PIFA

频段: WiFi/BT	日期: 2024/10/12	版本: R:A
FB: WiFi/BT	Data: 10/12/2024	Version: R:A

Address:

Room 211, Hengbo science and technology Industrial Park, Qingning road, Longhua District, Shenzhen



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1. Project information and Electrical Specification

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

1-1 Frequency Band:

Frequency Band	MHz
WiFi/BT	2400-2500

1-2 Impedance matching

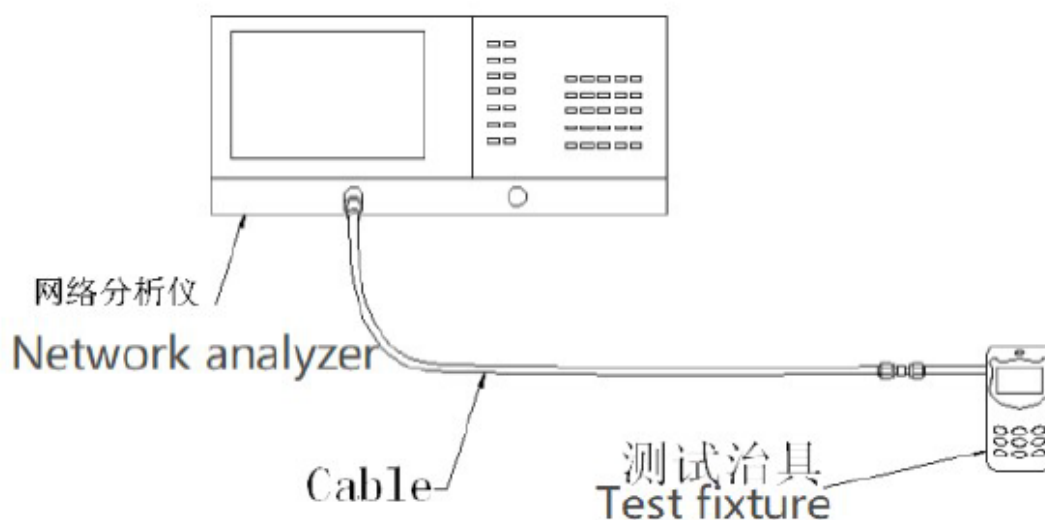
DUT 的 RF 线路上的所有匹配器件都保持不变 All matching devices on the RF circuit of DUT remain unchanged

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 The test diagram is as follows:



2-2 S11 parameter values

频率 Frequency (MHZ)	2400	2500	5050	5400	5850
驻波 Standing wave	1.52	1.63	2.04	1.17	1.50



3. Efficiency and Gain

*measuring and test instruments:

微波暗室 Microwave anechoic chamber

Agilent 网络分析仪 Microwave anechoic chamber

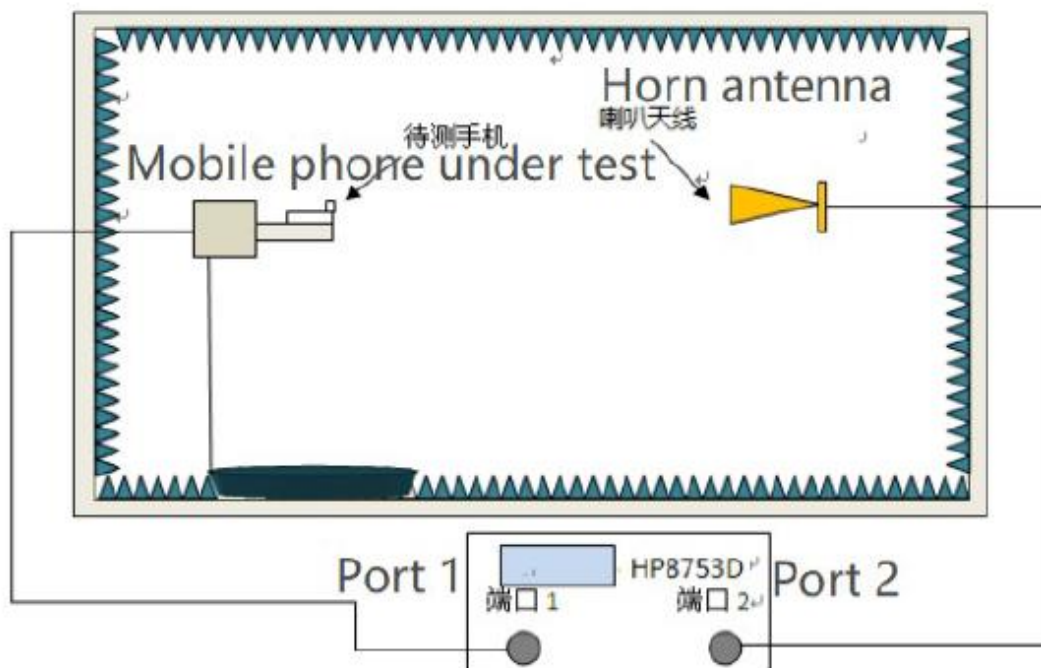
Agilent 频谱分析仪 Spectrum analyzer

8960 综合测试仪 Network analyzer

标准天线 Standard antenna

*test method:

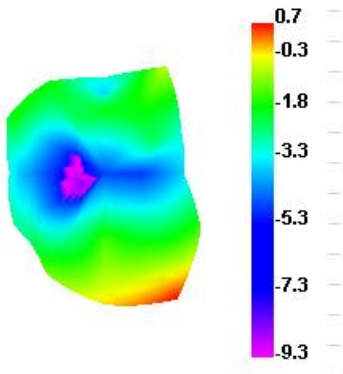
equipment 以 H 面放于转台中心位置固定，与喇叭天线中心位置在同一个水平线上。



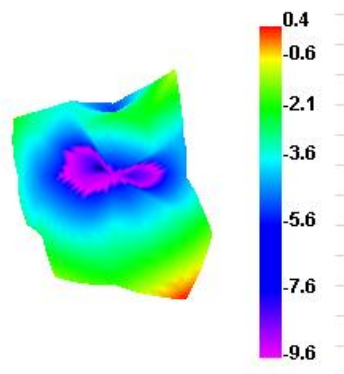
3-1 Efficiency/Gain- WIFI/BT

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	43.25	-3.64	0.69
2450	41.22	-3.85	0.4
2500	42.18	-3.75	0.55

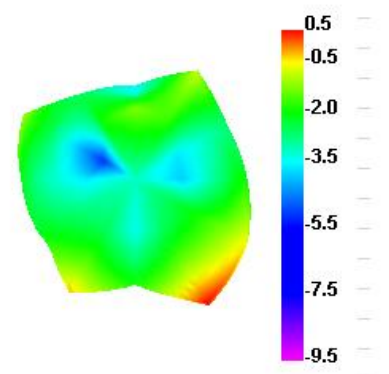
2400.000MHz



2450.000MHz



2500.000MHz



4. The production index

In the mass production of antenna, the standing-wave ratio is used as the test standard.

According to the differences of the project itself, the following standards are given:

频率 Frequency (MHZ)	量产标准 Mass production standard
WIFI (2400-2500)	VSWR (量产产品 Mass production products) < <VSWR(设计样品 Design sample)+)+0.5

5. structural drawings

