



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: W700-1B120B-E

Manufacturer: SHENZHEN YNC ELECTRONIC CO., LTD
Model: FPC ANT

客户：一诺成		项目名：数码相框	
频段：WIFI		日期：2022.09.06	版本：R:A
研发	结构：	审核：	批准：
	射频：	审核：	
客户审核：		客户批准：	

contents

contents	2
1. PROJECT INFORMATION AND ELECTRICAL SPECIFICATION	3
1-1 Project picture	3
1-2 Frequency Band:	3
1-3 Impedance matching	3
2. VSWR	3
2-1 Measuring Method:	3
2-2 S11 parameter values	4
3. EFFICIENCY AND GAIN	4
3-1 Efficiency/Gain- WIFI.....	5
4. THE PRODUCTION INDEX	7
5. STRUCTURAL DRAWINGS	8
6. THE ANTENNA PLACEMENT	8

1. Project information and Electrical Specification

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

1-1Antenna picture



1-2 Frequency Band:

Frequency Band	MHz
WiFi	2400-2500

1-3 Impedance matching

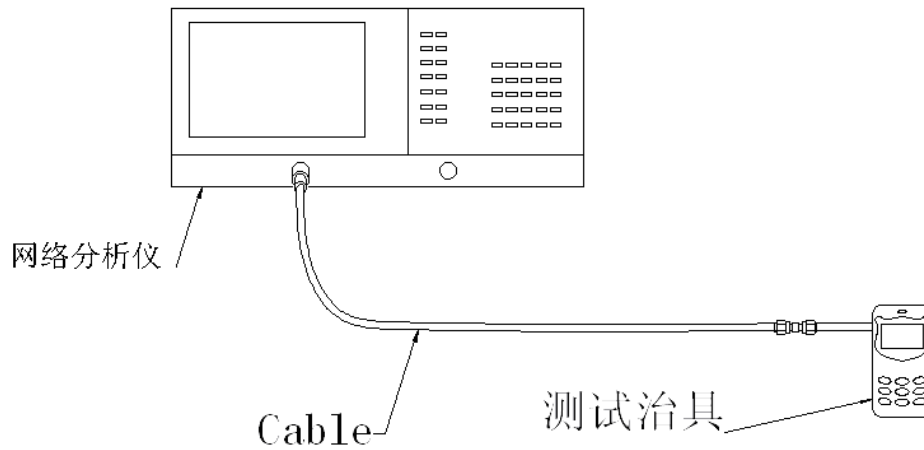
天线原匹配

2.VSWR

2-1 Measuring Method:

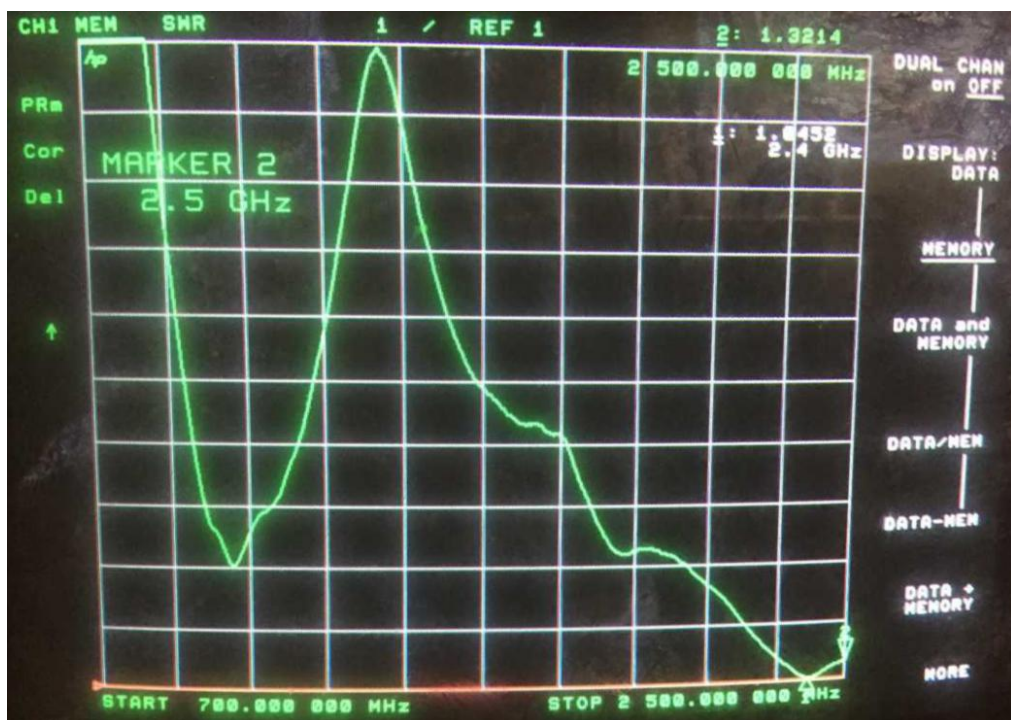
- 1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,*
- 2. Keeping this jig away from metal at least 20cm.*

测试示意图如下:



2-2 S11 parameter values

频率 (MHZ)	2400	2500
驻波	1.04	1.32



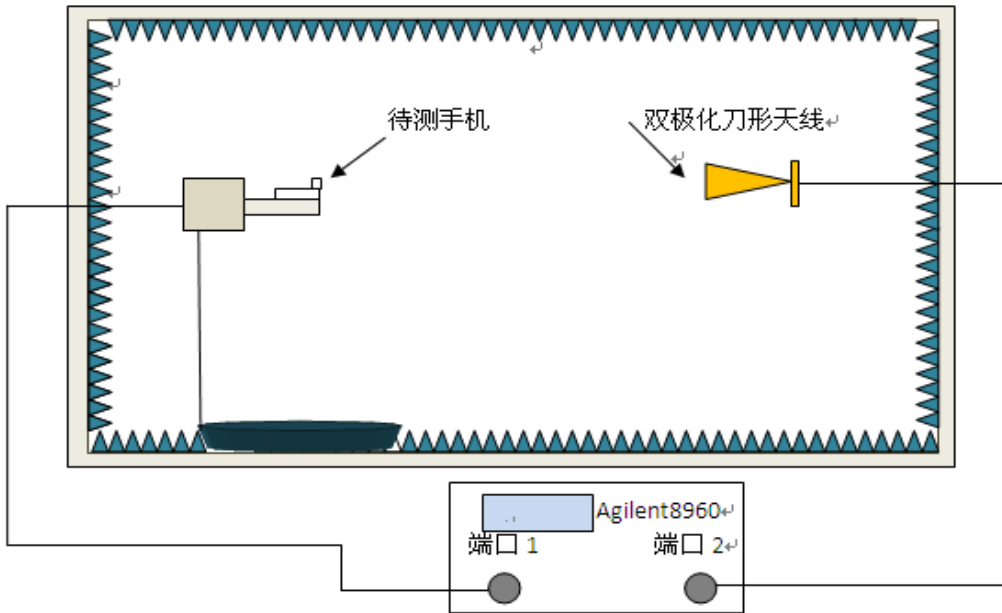
3. Efficiency and Gain

*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

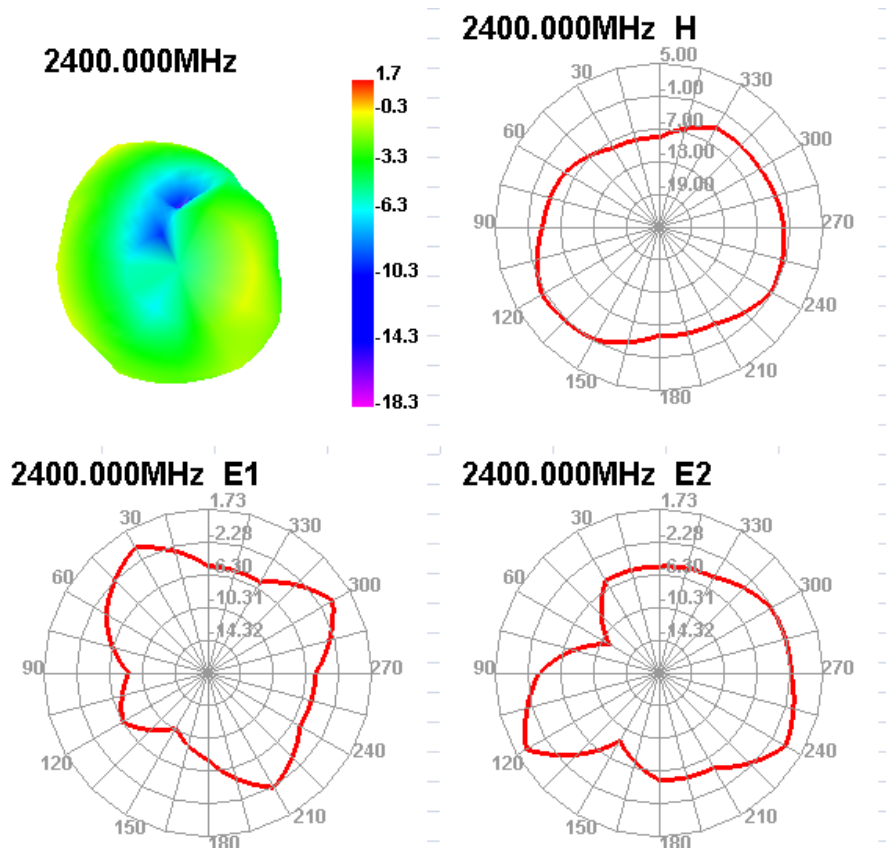
*test method:

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。

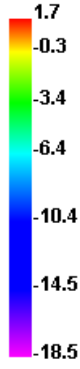
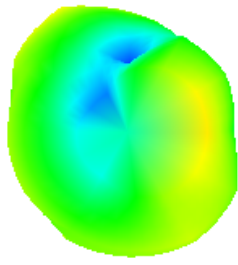


3-1 Efficiency/Gain- WIFI

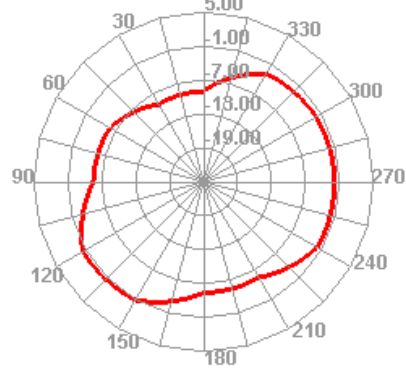
Passive Test For WIFI_BT								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	50.67	-2.95	1.73	-0.42	1.73	-18.33	51.53	51.61
2450	50.75	-2.95	1.69	-0.46	1.69	-18.53	51.67	51.63
2500	51.75	-2.86	1.9	-0.25	1.9	-12.83	51.56	51.46



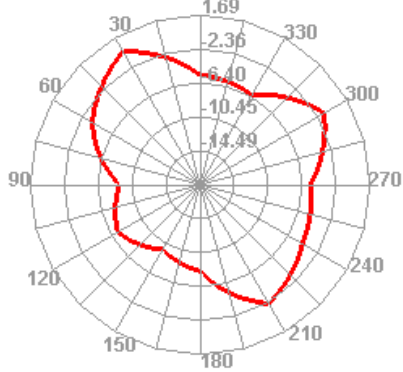
2450.000MHz



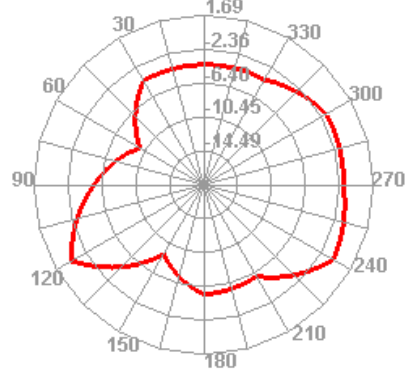
2450.000MHz H



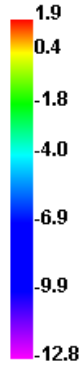
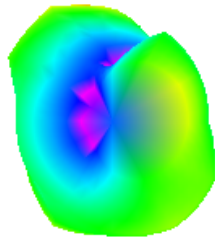
2450.000MHz E1



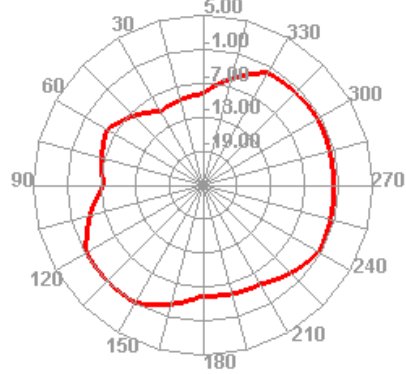
2450.000MHz E2



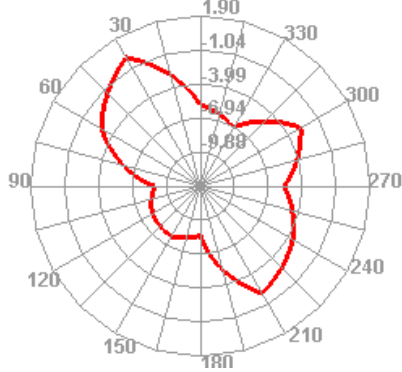
2500.000MHz



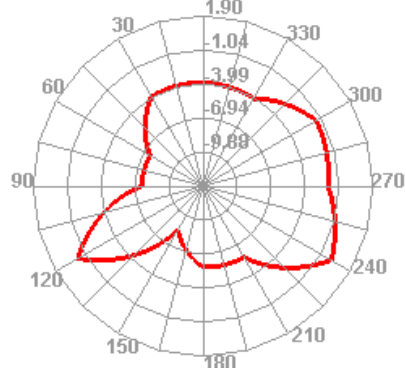
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



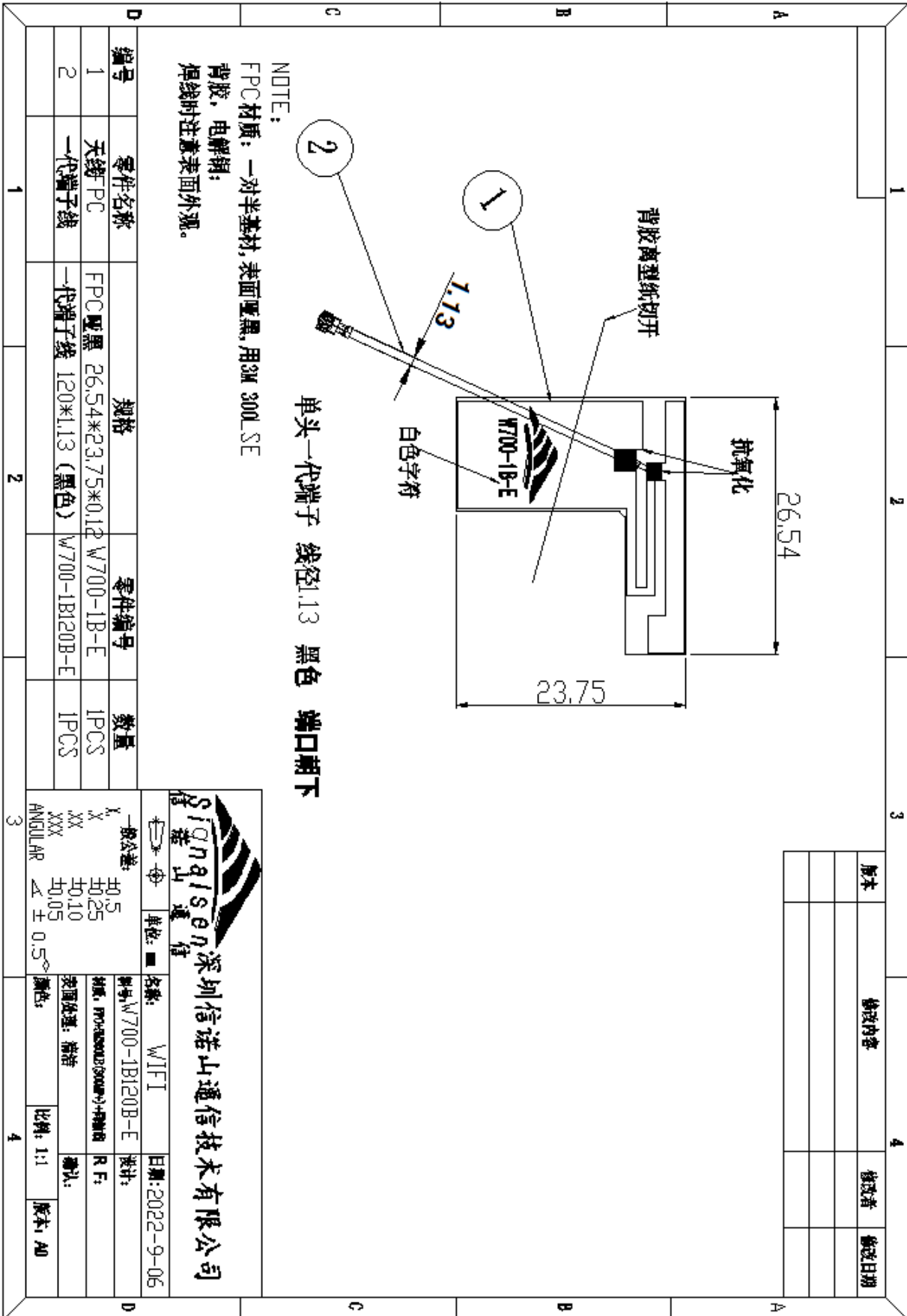
4. The production index

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
WIFI (2400-2500Mhz)	$VSWR(\text{量产产品}) < VSWR(\text{设计样品}) + 0.5$

5.structural drawings



备注：增益测试设备及环境如图：

