维度数码

规 格 承 认 书
APPROVAL SHEET

供应商： 信诺山

CUSTOMER:

品　　名： Antenna

DISCRIPTION:

型　　号： WIFI/BT

MODEL NO:

供应商料号： W785-1B-A

CUSTOMER P/N:

机　　种： eBook Reader

CUSTOMER MODEL:

Recognized department	Project	Hardware	Software	Test	Fae, structure	Technical Center Manager
Affirm						
Audit results:			Qualified ☐		Unqualified ☐	
REMARK:						

Manufacturer:Shenzhen Signalsen Communication Technology Co., Ltd
Address:211, 2nd Floor, Hengbo Innovation and Technology Industrial Park, Qingning Road, Qinghu Community, Longhua Street, Longhua District, Shenzhen

1. Project information and Electrical Specification

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

1-1 Project picture

1-2 Frequency Band:

Frequency Band	MHz
Wi-Fi/BT	2400-2500

1-3 Impedance matching

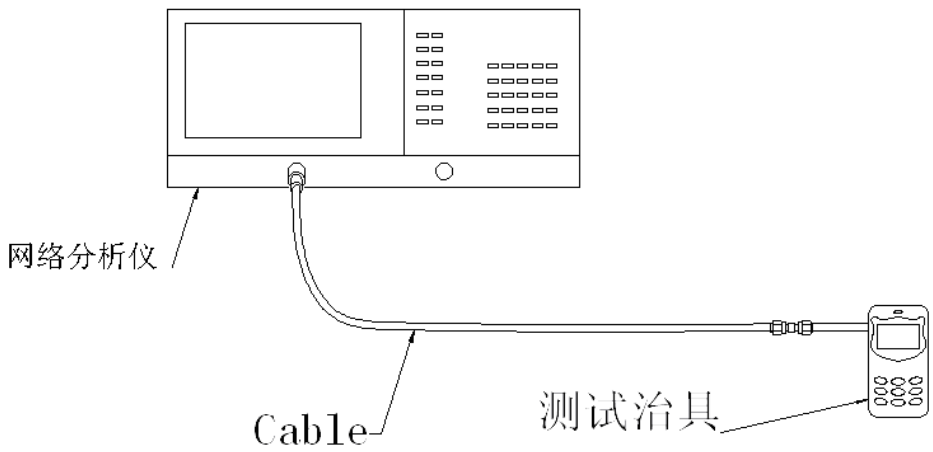
There is no change in the original matching of antenna

2. VSWR

2-1 Measuring Method:

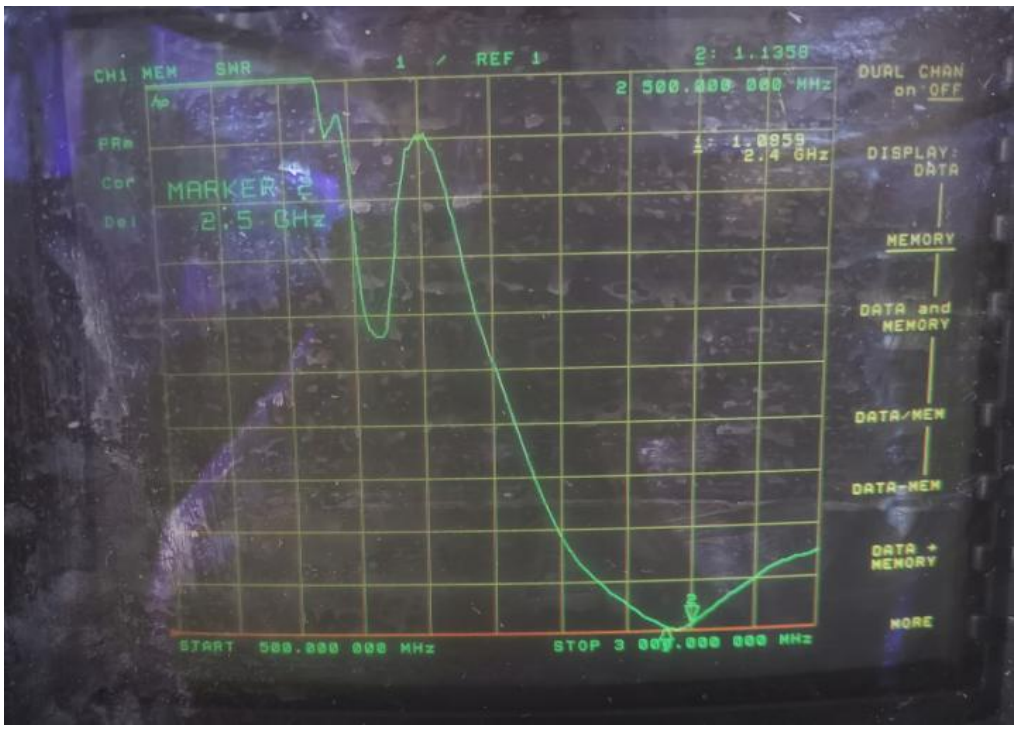
1. *A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,*
2. *Keeping this jig away from metal at least 20cm.*

The schematic diagram of the test is as follows:



2-2 S11 parameter values

Frequency (MHZ)	2400	2500
Standing wave	1.09	1.13



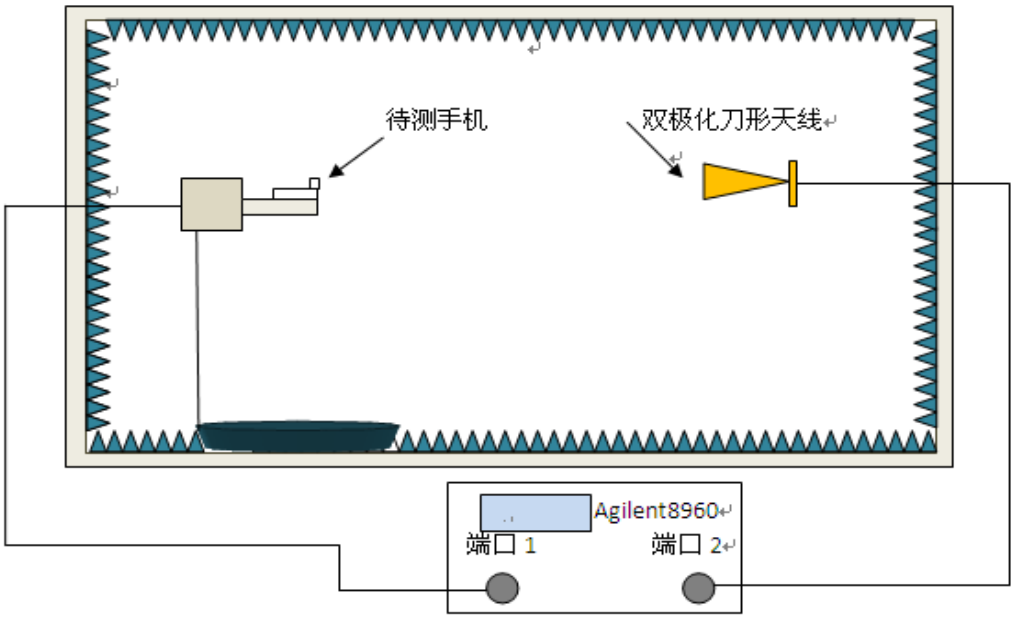
3. Efficiency and Gain

***measuring and test instruments:**

Microwave anechoic chamber,Agilent network analyzer, Agilent spectrum analyzer, 8960 integrated tester,standard antenna

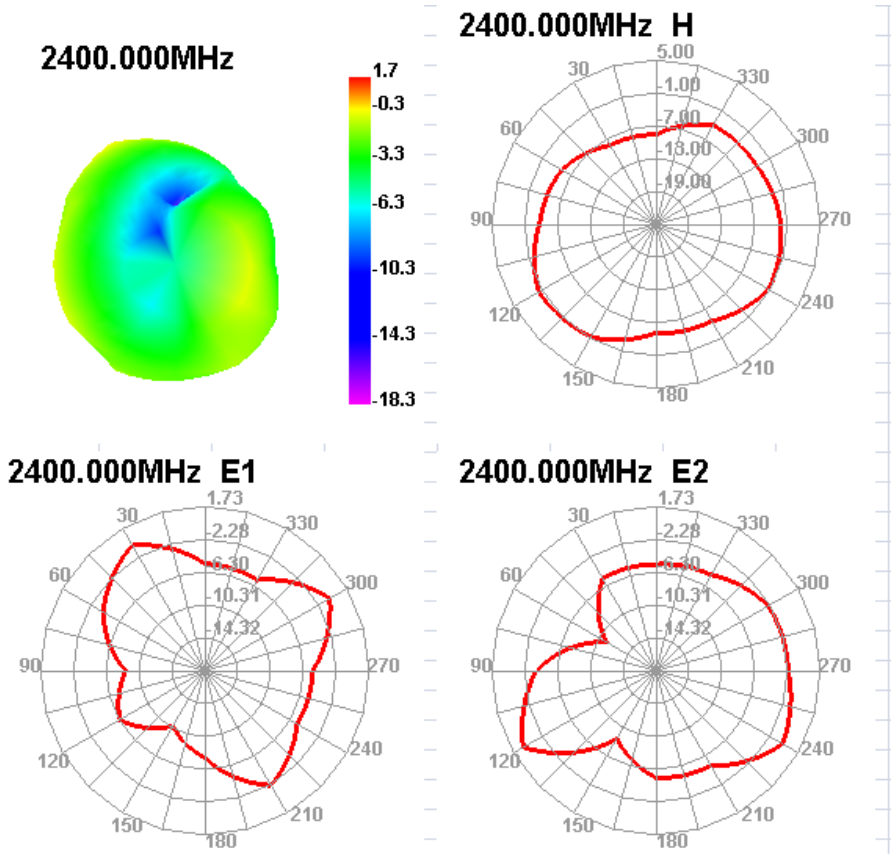
***test method:**

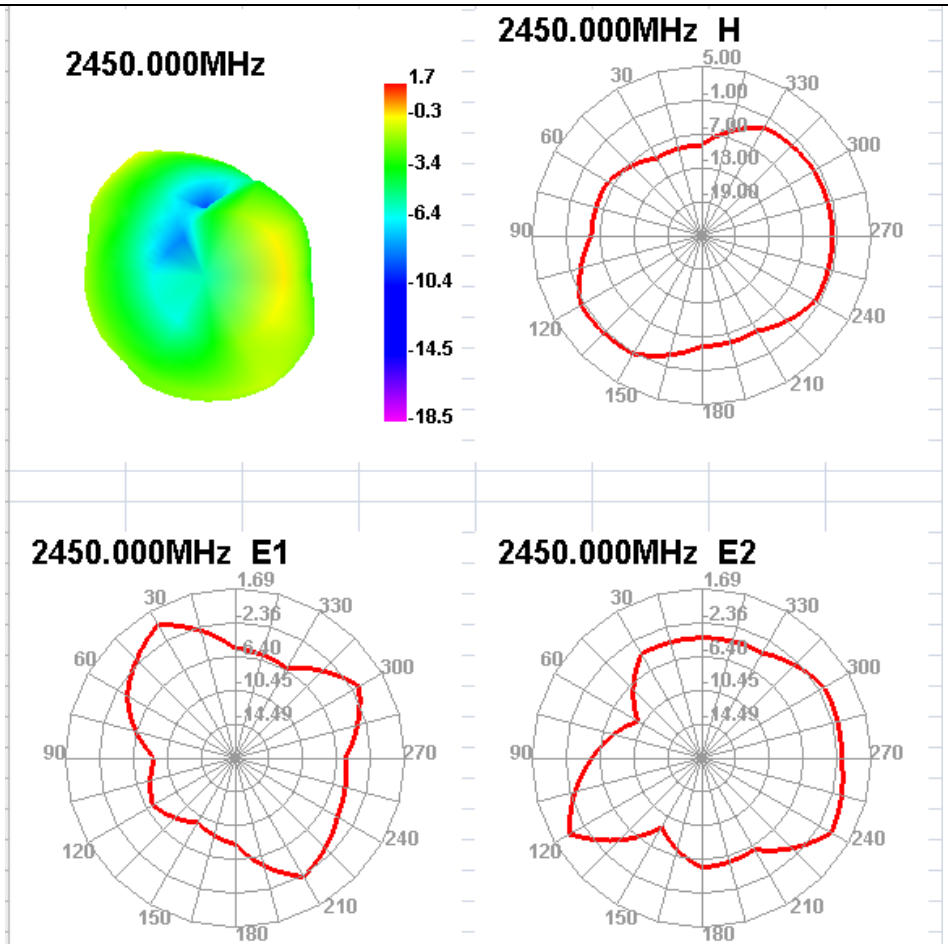
The equipment is fixed in the center position of the turntable with plane H, and the center position of the horn antenna is on the same horizontal line.



3-1 Efficiency/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




2450.000MHz
1.7
-0.3
-3.4
-6.4
-10.4
-14.5
-18.5
2450.000MHz H
5.00
-1.00
-7.00
-13.00
-19.00
2450.000MHz E1
1.69
-2.36
-6.40
-10.45
-14.49
2450.000MHz E2
1.69
-2.36
-6.40
-10.45
-14.49
2500.000MHz
1.9
0.4
-1.8
-4.0
-6.9
-9.9
-12.8
2500.000MHz H
5.00
-1.00
-7.00
-13.00
-19.00
2500.000MHz E1
1.90
-1.04
-3.99
-6.94
-9.88
2500.000MHz E2
1.90
-1.04
-3.99
-6.94
-9.88

5. The production index

When the antenna is in mass production, the standing wave ratio is used as the mass production test standard.

According to the difference of the project itself, the following criteria are given:

Frequency (MHZ)	Mass production standard
2400-2500	VS WR (Production)<VSWR(Design Sample) +0.5

6.structural drawings