深圳信诺山通信技术有限公司

Shenzhen Signalsen Telecom Technology Co, .Ltd

WIFI Antenna Recognition Book

Item No：W01-1Y80B-Z

Customer：			Project name： Q8
Band： WIFI		Date： 2018.05.11	Version： R:A
R & D	Structure: Zeng Yang	Review：	Approval：
	RF: Wang Yongya	Review：	
Customer Review：		Customer Approval：	

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contents

1. Project information and Electrical Specification

Those specifications were specially defined for ***Q8*** *WIFI 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	2400-2500

1-3 Impedance matching

original antenna matching

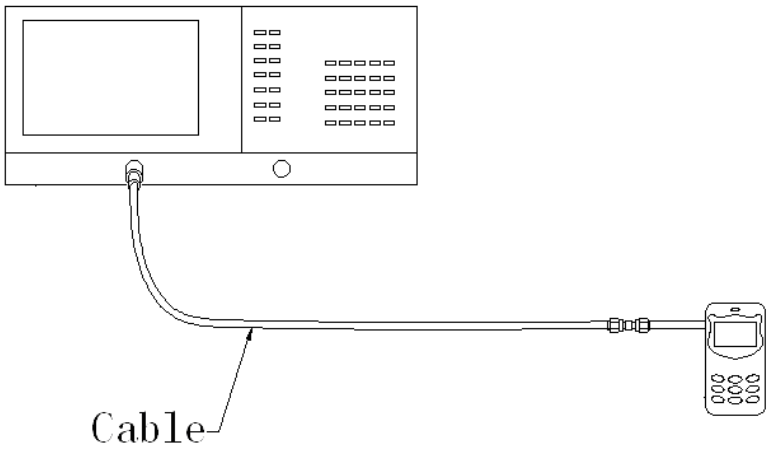
2.VSWR

2-1 Measuring Method:

1. A 50 Ωcoaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,

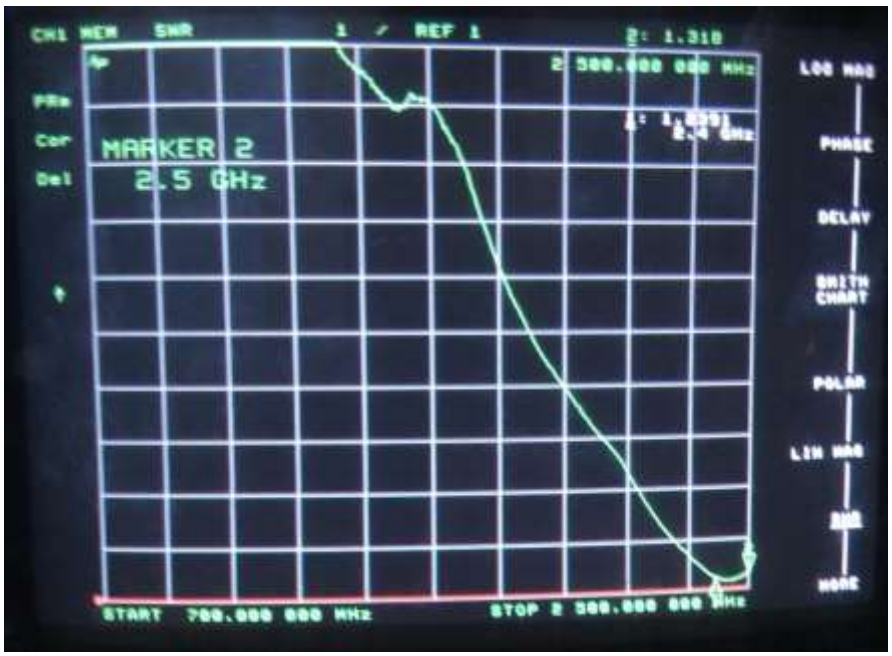
2. Keeping this jig away from metal at least 20cm.

The test diagram is as follows:



2-2 S11 parameter values

Frequency（MHZ）	2400	2500
standing wave	1.23	1.31



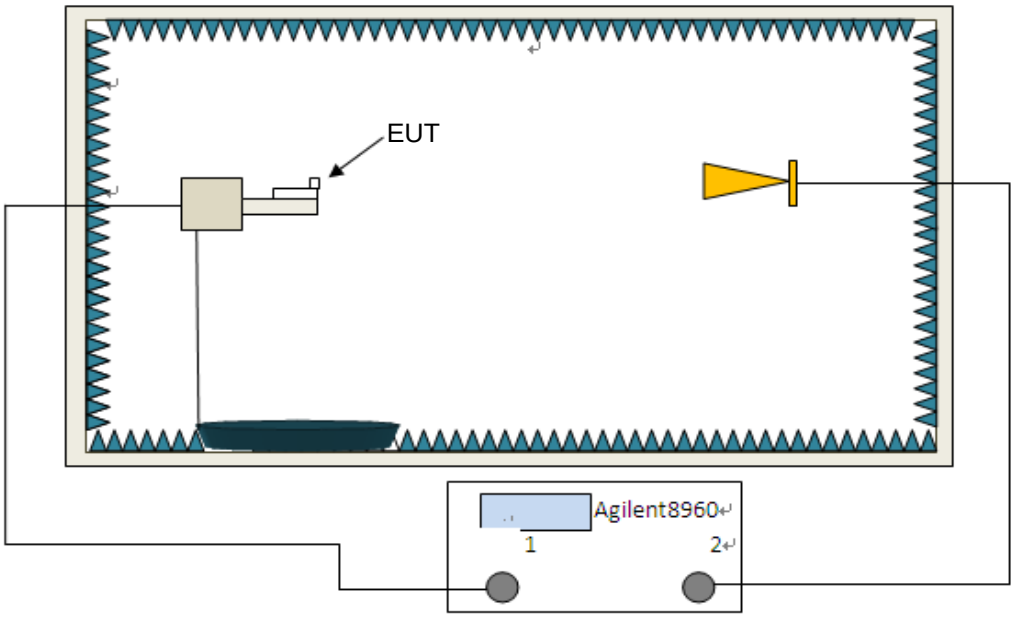
3. Efficiency and Gain

***measuring and test instruments:**

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

***test method:**

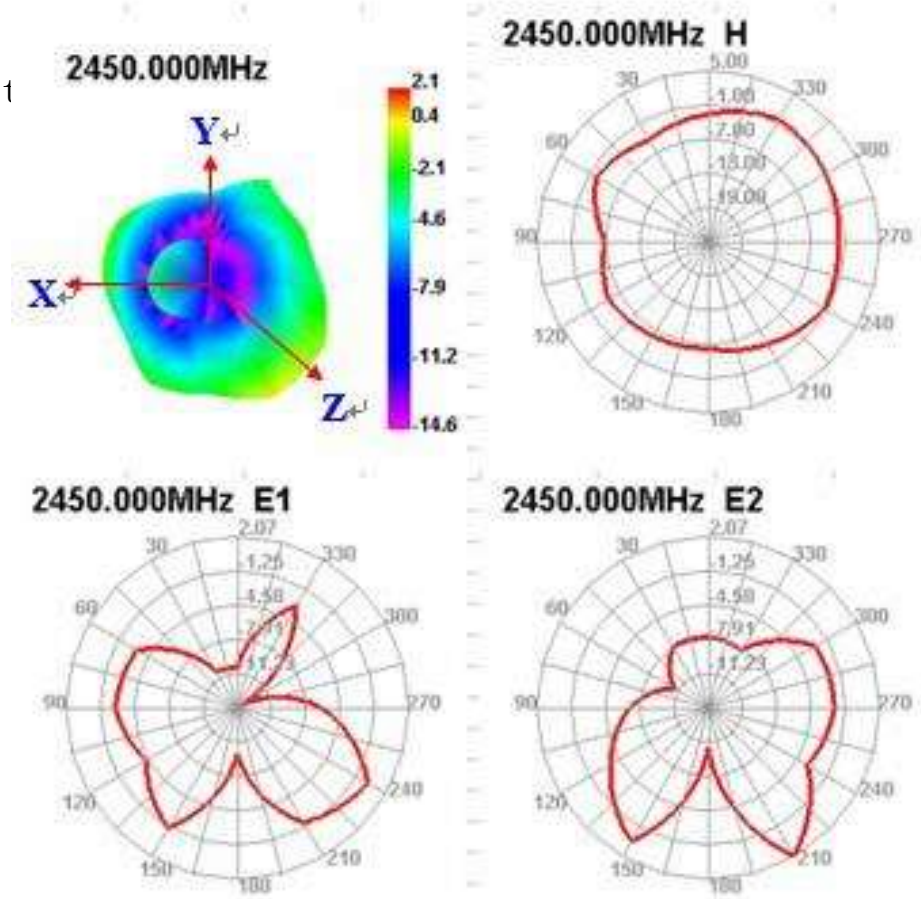
The equipment H plane is placed on the turntable center position is fixed, and the horn antenna center position is on the same horizontal line.



3-1 Efficiency/Peak Gain- WIFI

BAND	WIFI		
Freq.[MHZ]	2400	2450	2500
Eff.[%]	40.12	42.52	41.22
Peak Gain [dBi]	1.16	1.65	1.26

3-2 Patt



4. The production index

When the antenna is mass produced, the standing wave ratio is used as the mass production test standard. According to the differences of the project itself, the following criteria are given:：

Frequency	Mass production standard
WIFI (2400-2500MHZ)	VSWR（mass production）<VSWR(design sample)+0.5

5.structural drawings