

深圳市肯特新工业技术有限公司

承認書

SPECIFICATION FOR APPROVAL

客 戶： 环翔电子

Customer

项目名： P12 MAX

Project

品 名： WIFI 天线

Description

料 號： W3106X-F8R2B-120-D

Part Number

日 期： 2023 年 11 月 08 日

Date Year Month Day

承認人簽章

Signature

制定 **Responsible**

审核 **Approve**

客户确认 **Confirm**

Contact: 18688745790

TEL: +86-755-23025852

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ±1 X.X = ±0.1 X.XX = ±0.01

ANGLES = ± HOLE DIA = ±

SCALE :

UNIT : mm

DRAWN BY : 周景峰

CHECKED BY : 王浩

DESIGNED BY : 李谋月

APPROVED BY : 易珂湘

TITLE : W3106X-F8R2B-120-D Specification



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1. Electrical Specification :

Those specifications were specially defined for 环翔电子 P12 MAX WIFI model, and all characteristics were measured under the model's handset testing jig .

1-1. Frequency Band:

Frequency Band	MHz
Wi-Fi	2.4G&5.8G

1-2. Impedance

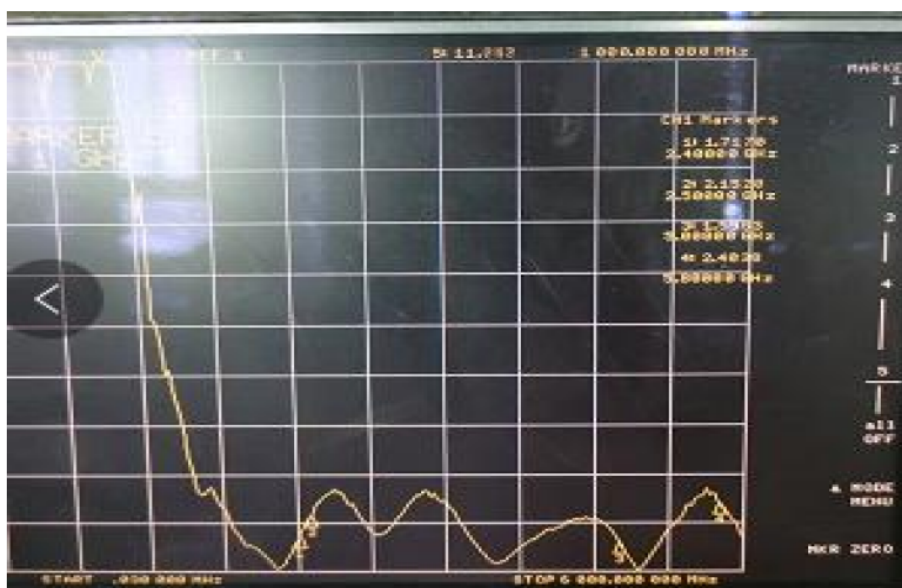
50 ohm nominal

2. VSWR

2-1 Measuring Method

1. A 50Ωcoaxial 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.

2-2 Measurement frequency points and VSWR value



Frequency (MHz)	2400	2500	5000	5800
VSWR	1.66	2.1	1.5	2.18

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3. Efficiency and Gain

- 量测仪器：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。
- 微波暗室说明：
这是本公司设置在深圳的微波暗室，本微波暗室是属于一套远场量测系统,暗室的大小为 5.0 米 x3.0 米 x3.0 米 ， 静区尺寸(Quiet zone)大小为 15 厘米 x15 厘米 x15 厘米。

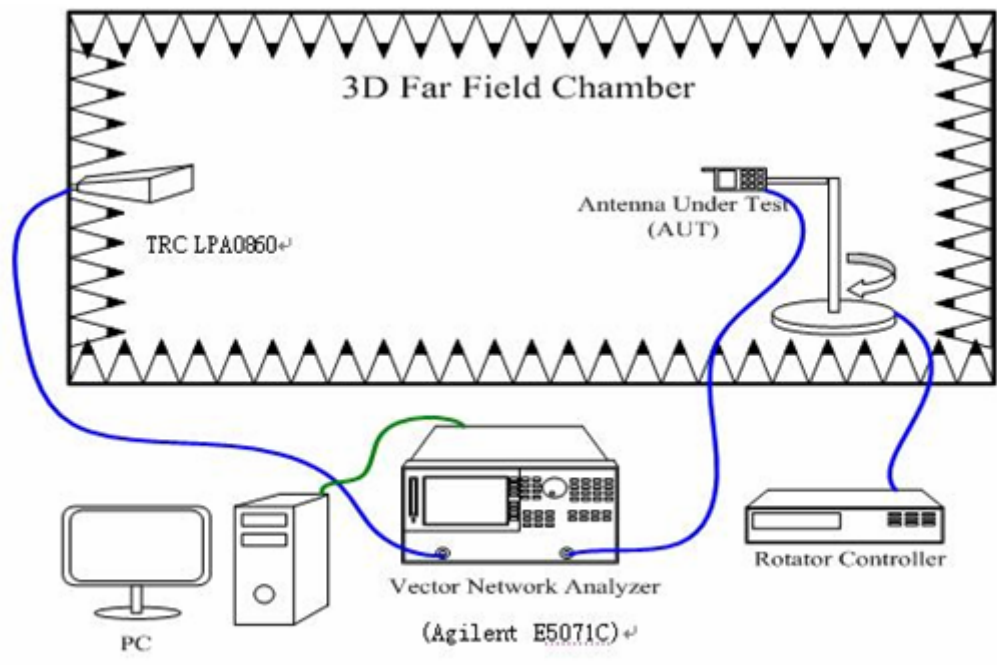


图. 1. 微波暗室内仪器设置 r.

图. 1 为微波暗室内的仪器设置及网络分析仪的联接图，发射天线(0.8-6.0GHZ for Gain Calibration)到待测天线(AUT)的距离为 3.0 米，待测天线放置在旋转平台上,藉由控制转台旋转的角度可对待测天线做概略性及较为准确的量测。

将待测天线放置于旋转台上,并测得其各个平面(ZY 平面及 ZX 平面)的 360 度场强数据。再将待测天线换置成标准偶极天线将其 360 度的场强数据测出，以作换算增益标准值，经由式 1 的换算即可获得待测天线的增益值及方向图。

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ANGLES = ± HOLE DIA = ±			
SCALE :	UNIT : mm		
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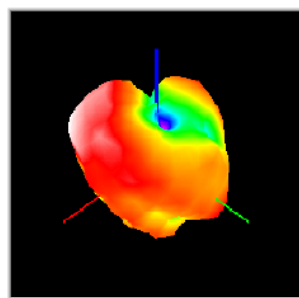
3-1 Measuring Method

1. Using a low loss coaxial cable to link a standard handset jig,
2. Fixed this handset jig on chamber's rotator plane,
3. Linking jig into network analyzer port and using a probing horn antenna to collect data,
4. Using another standard gain horn antenna to calibrated those data.

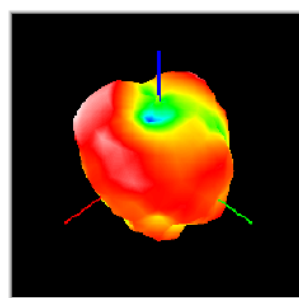
3-2 Efficiency and Gain Value

Frequency (MHz)	Efficiency (%)	Average GAIN (dB)	Peak GAIN (dBi)
2400	43.5%	-3.61	3.53
2450	42.8%	-3.69	3.17
2500	45.4%	-3.43	2.79
5000	42.6%	-3.71	4.28
5400	43.6%	-3.61	4.01
5800	46%	-3.37	3.96

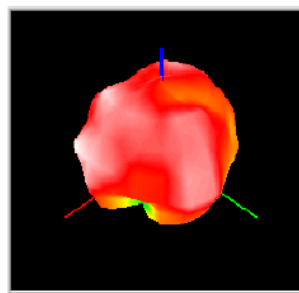
3-3 3D Pattern



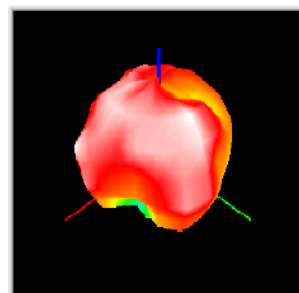
2400MHZ



2500MHZ



5000MHZ



5800MHZ

4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 4-1

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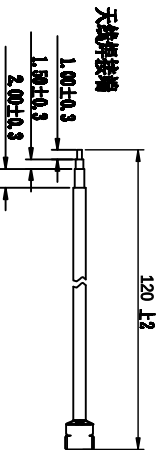
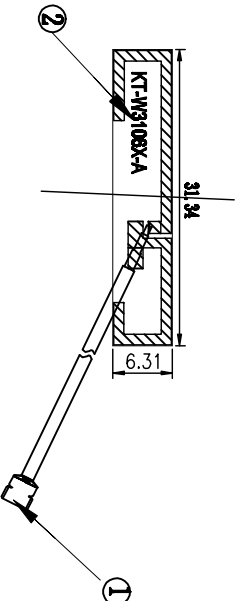
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1				2	3	4
NO.	NAME	SPECIFICATION		Q'TY		
1	电缆线	L=120mm 0.D.=0.81mm 2代端子 端子朝下		1		
2	ANTENNA	W3108X+BT-A黑色油墨亮黑字符		1		

6	7	8
版次	变更内容	设计 日期
A0		



NOTES:

1. Electrical:
 - 1.1 Impedance: 50 OHM
 - 1.2 Frequency:2400~2500MHz
 - 1.3 Polarization :Vertical
 - 1.4 VSWR: ≤2.0
 - 1.5 Gain: 2dBi
2. Environmental:
 - 2.1 Storage Temperature Range: -30 TO +70℃.
 - 2.2 Operating Temperature Range: -30 TO +70℃.
3. All Materials must Meet & Shall RoHS Request.

((KINTEK)) 深圳市肯特新工业技术有限公司

设计		名 称		WiFi天线			
		成品料号		W3108X-F382B-120-D			
审核		比例	版次	单位	视图	变更标记	变更数量
批准		FREE	A0				——