深圳市肯特新工业技术有限公司

承 認 書

SPECIFICATION FOR APPROVAL

客 戶： 华芯智影
Custome

项目名： HX233
Project

品 名： WIFI天线
Description

料 號： W3106N-F8R2B-050-N

Part Number

日 期： 2023年01月5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	

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SCALE：	**UNIT**：**mm**	
DRAWN BY： 周景峰	**CHECKED BY**： 王浩	
DESIGNED BY： 李谋月	**APPROVED BY**：易珂湘	
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1. Electrical Specification :

*Those specifications were specially defined for华芯智影-**HX233** WIFI model, and all characteristics were measured under the model's handset testing jig .*

1-1. Frequency Band:

Frequency Band	MHz
Wi-Fi	2400-2500

1-2. Impedance

50 ohm nominal

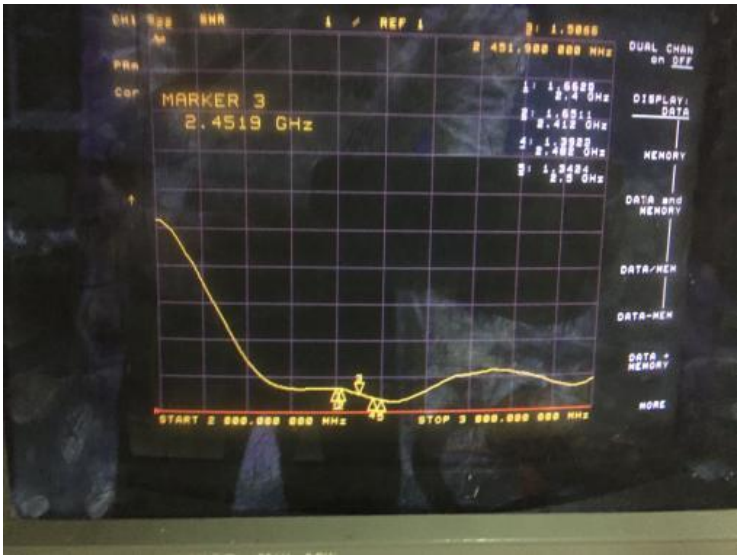
2. VSWR

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.

2-2 Measurement frequency points and VSWR value

Frequency (MHz)	2400	2450	2500
VSWR	1.77	1.50	1.45



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。

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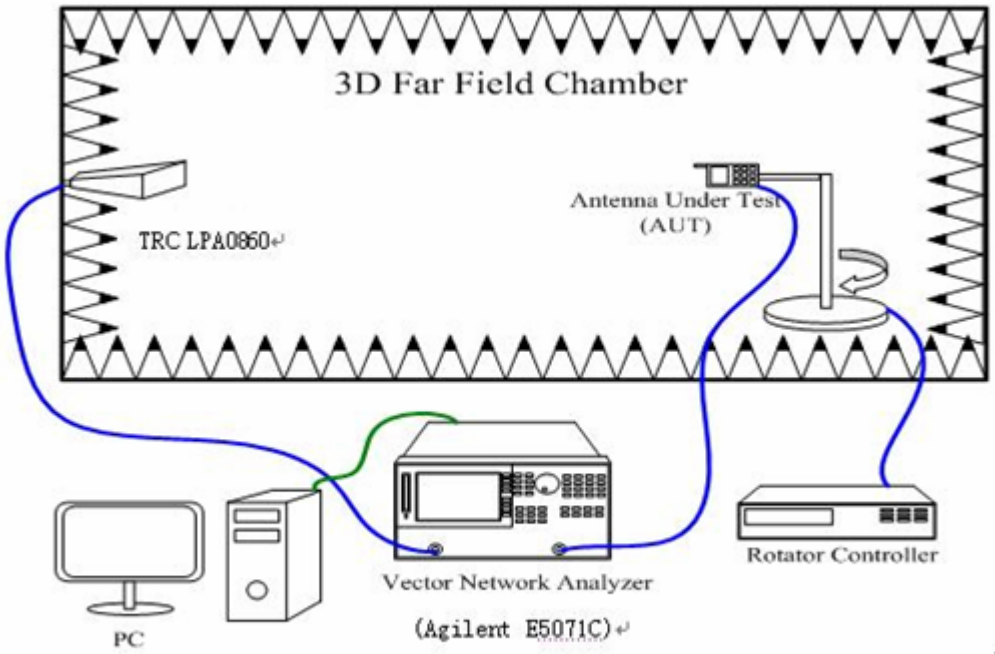


图. 1. 微波暗室内部仪器设置 r.

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　　数据　出，以作换算增益标准值，经由式1的　算即可　得待天　的增益　及方向　。

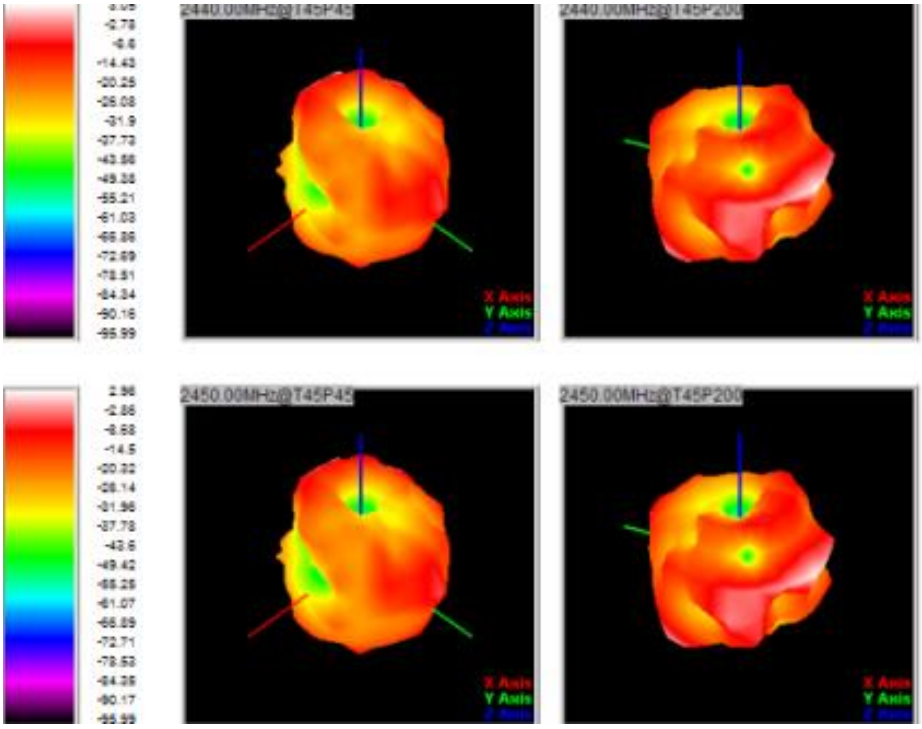
3-1 Measuring Method

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	**37%**	-1. 14	3.48
2450	32. 4%	-0. 78	3.54
2490	36. 6%	-1. 48	3.29

3-3 3D Pattern



4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

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

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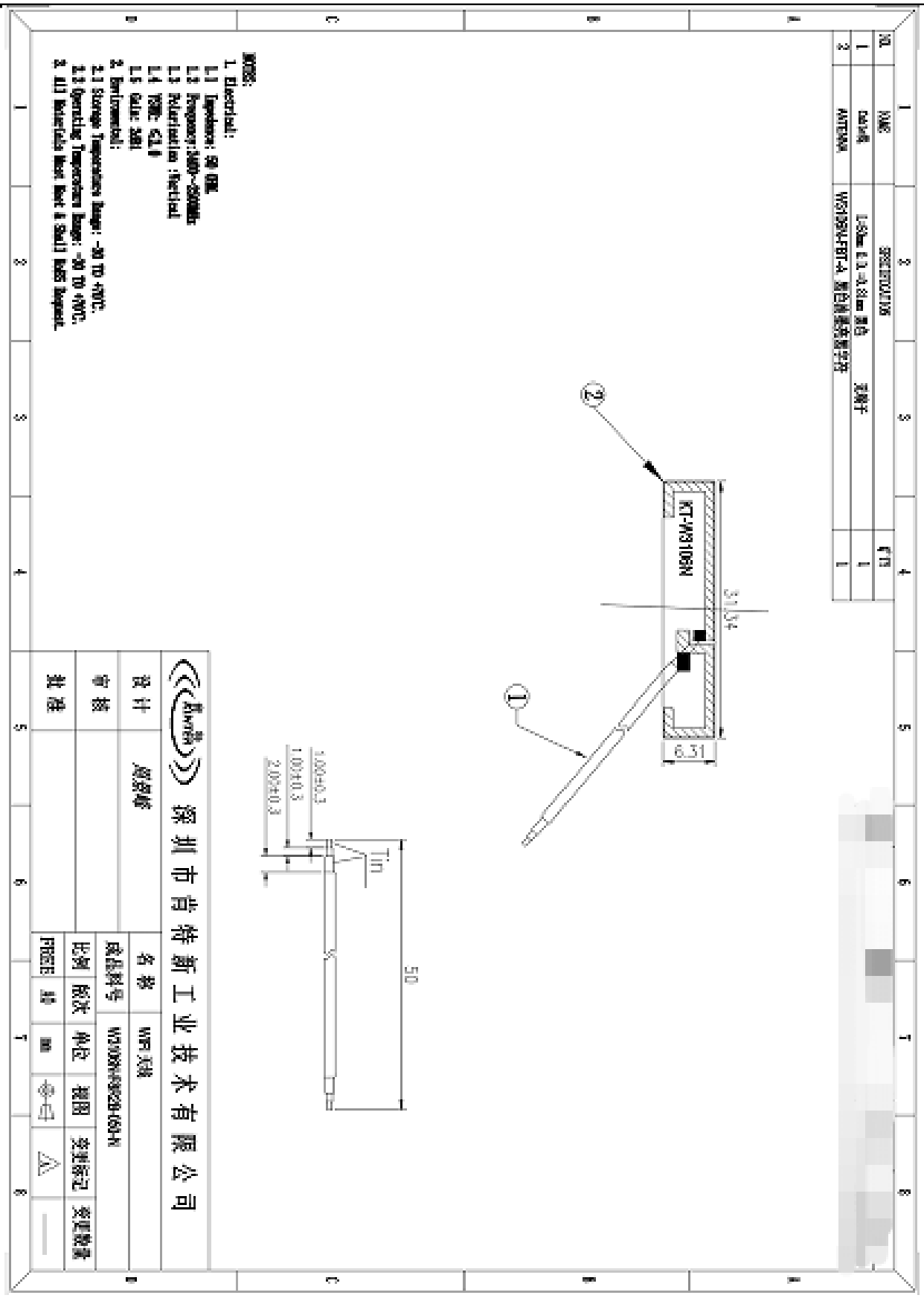

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