

深圳市盛邦尔科技有限公司
鸿瑞佳(香港)科技有限公司

承認書

SPECIFICATION FOR APPROVAL

客 戶： 嘉兴林克思

Customer

項目名： 785

Project

品 名： WIFI 天线

Description

料 號： W5006A-P1C1G-100-A

Part Number

日 期： 2013 年 12 月 27 日

Date Year Month Day

承認人簽章

Signature

制定 Responsible

审核 Approve

客户确认 Confirm

卢 兵

Contact:13428953437

TEL:+86-755-82790675

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±1 X.X=±0.1 X.XX=±0.01

ANGLES=±

HOLE DIA=±

SCALE :

UNIT : mm

DRAWN BY : 章生兵

CHECKED BY : 易珂湘

DESIGNED BY : 卢兵

APPROVED BY : 易珂湘

TITLE : W5006A-P1C1G-100-A Specification



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1. Electrical Specification :

Those specifications were specially defined for 嘉兴林克思 785 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

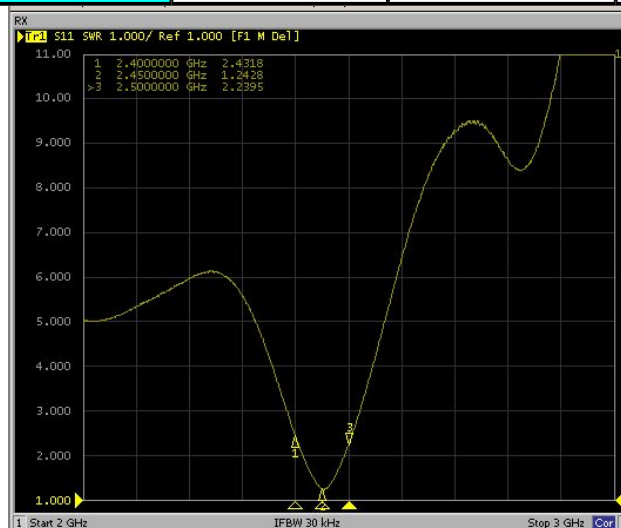
2. VSWR

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	2.43	1.24	2.23



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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。

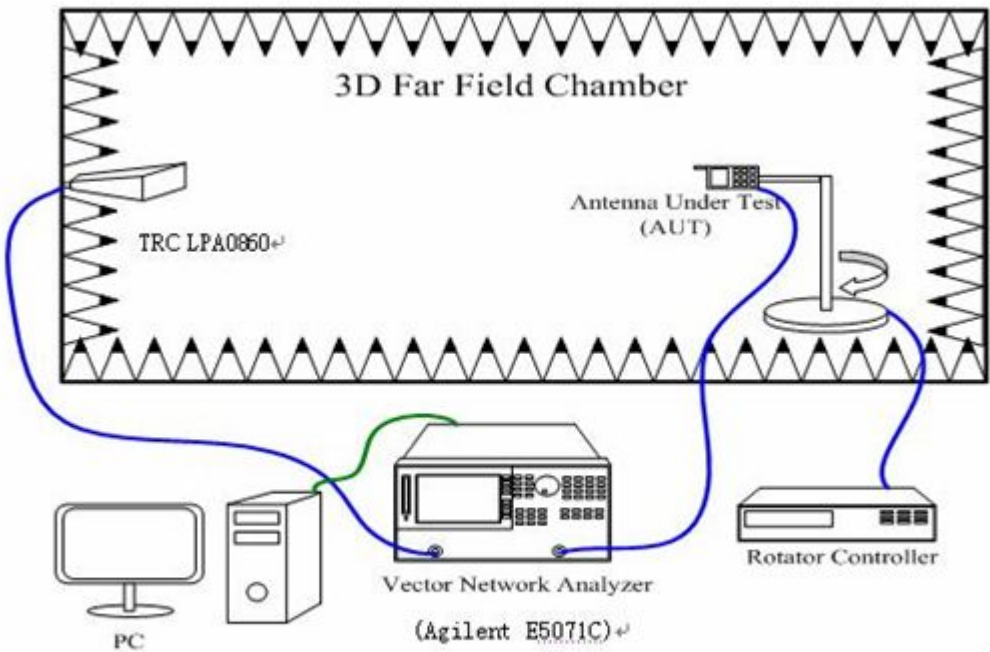



图. 1. 微波暗室内仪器设置 r.

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。

$$G_{AUT} = G_{stand} + P_{AUT} - P_{stand}$$

G_{AUT} : Gain of AUT
 G_{stand} : Gain of Standard Gain Antenna
 P_{AUT} : Measured Power of AUT
 P_{stand} : Measured Power of Standard Gain Antenna

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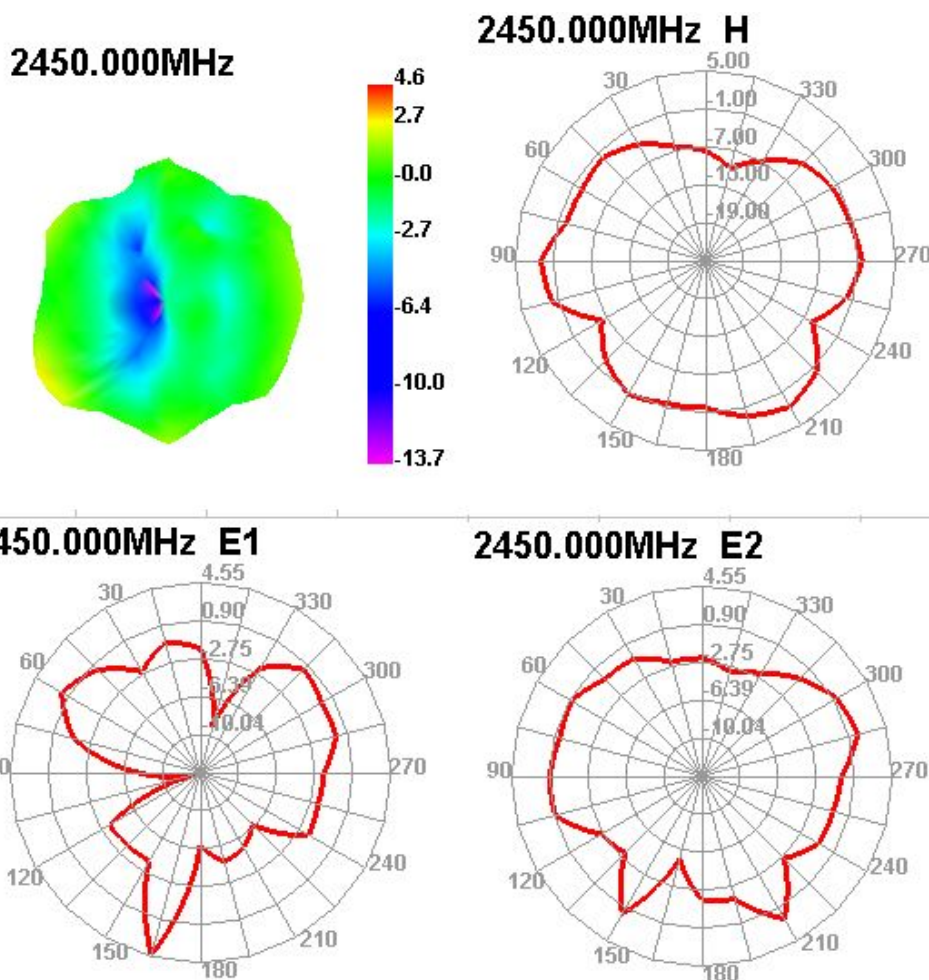
3-1 Measuring Method

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	Efficiency (%)	Average GAIN(dB)	Peak GAIN (dBi)
2400	58.14	-1.25	2.25
2450	59.42	-1.09	2.34
2500	58.07	-1.18	2.29

3-3 3D Pattern



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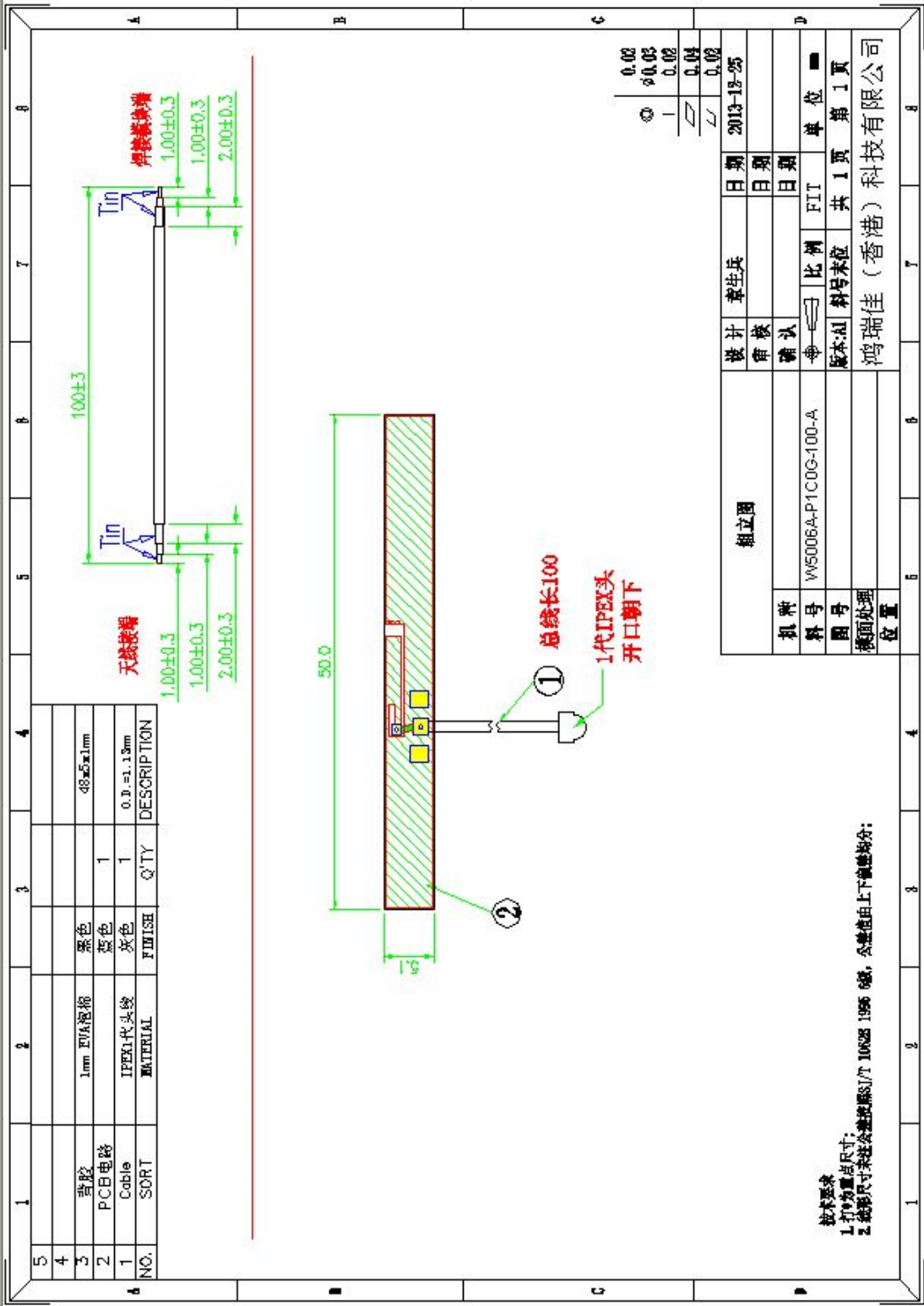
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4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

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



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