

深圳市肯特新工业技术有限公司

承認書

SPECIFICATION FOR APPROVAL

客 戶： 捷渡中国

Custom

项目名： S1

Project

品 名： BT 天线

Description

料 號： W2024F-F1R1B-130-U

Part Number

日 期： 2023 年 06 月 30 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 : W2024F-F1R1B-130-U Specification

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1. Electrical Specification :

Those specifications were specially defined for 捷渡中国 S1 BT 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 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	2450	2500
VSWR	1.66	1.39	1.48



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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。

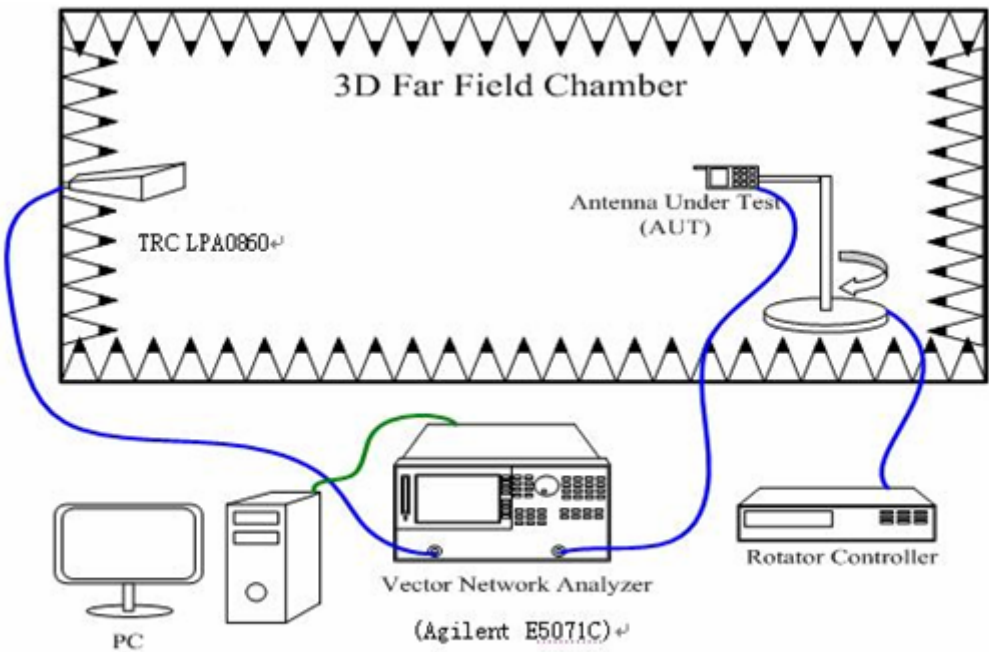



图. 1. 微波暗室内仪器设置 r.

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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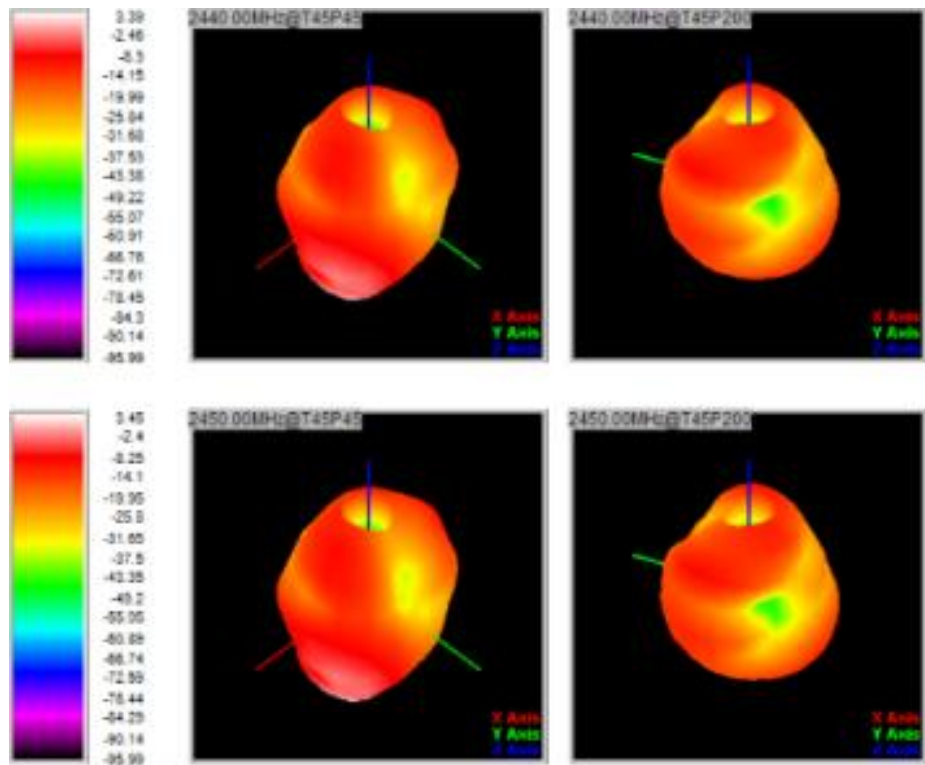
3-1 Measuring Method

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	49%	-3.1	1.29
2450	42.2%	-3.72	0.64
2500	32.8%	-4.8	0.33


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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NO.		NAME		SPECIFICATION		QTY		REV.		DATE		DESIGN		DATE	
1		天线		L=130mm Q.D.=1.13mm 黑色 IPX1 代插长端子 开口朝上		1									
2		ANTENNA		W2024F-F1R1B-130-U 黑色插针连接器		1									

20.7

25.6

BT-2.4G

RT-W2024F-C

1

2

130±2

天线焊接

1.00±0.3

1.50±0.3

2.00±0.3

NOTES:

1. Electrical:

1.1 Impedance: 50 OHM

1.2 Frequency: 791~2650MHz

1.3 Polarization: Vertical

1.4 VSWR: ≤1.0

1.5 Gain: 2dBi

2. Environmental:

2.1 Storage Temperature Range: -30 TO +70°C.

2.2 Operating Temperature Range: -30 TO +70°C.

3. All Materials Must Meet & Shall Meet Request.

设计		周景峰		名称		WIFI天线		成品料号		W2024F-F1R1B-130-U		比例		版本		单位		视图		变更标记		变更数量	
审核												FREE		A0		mm		A					
批准																							

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