

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER(客户名称)	Hesung
CS P/N(客户机种)	4L Humidifier
PART NAME(品名)	WIFI antenna
FREQUENCY(频率)	2400~2500MHz
ZTX NO.(物料编号)	2.00006109
DATE(日期)	2023-04-14

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign: _____

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER



Shenzhen ZTX Communication Technology Co., Ltd

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Revision history

Version	Date	Record
A0	2023-04-14	first edition

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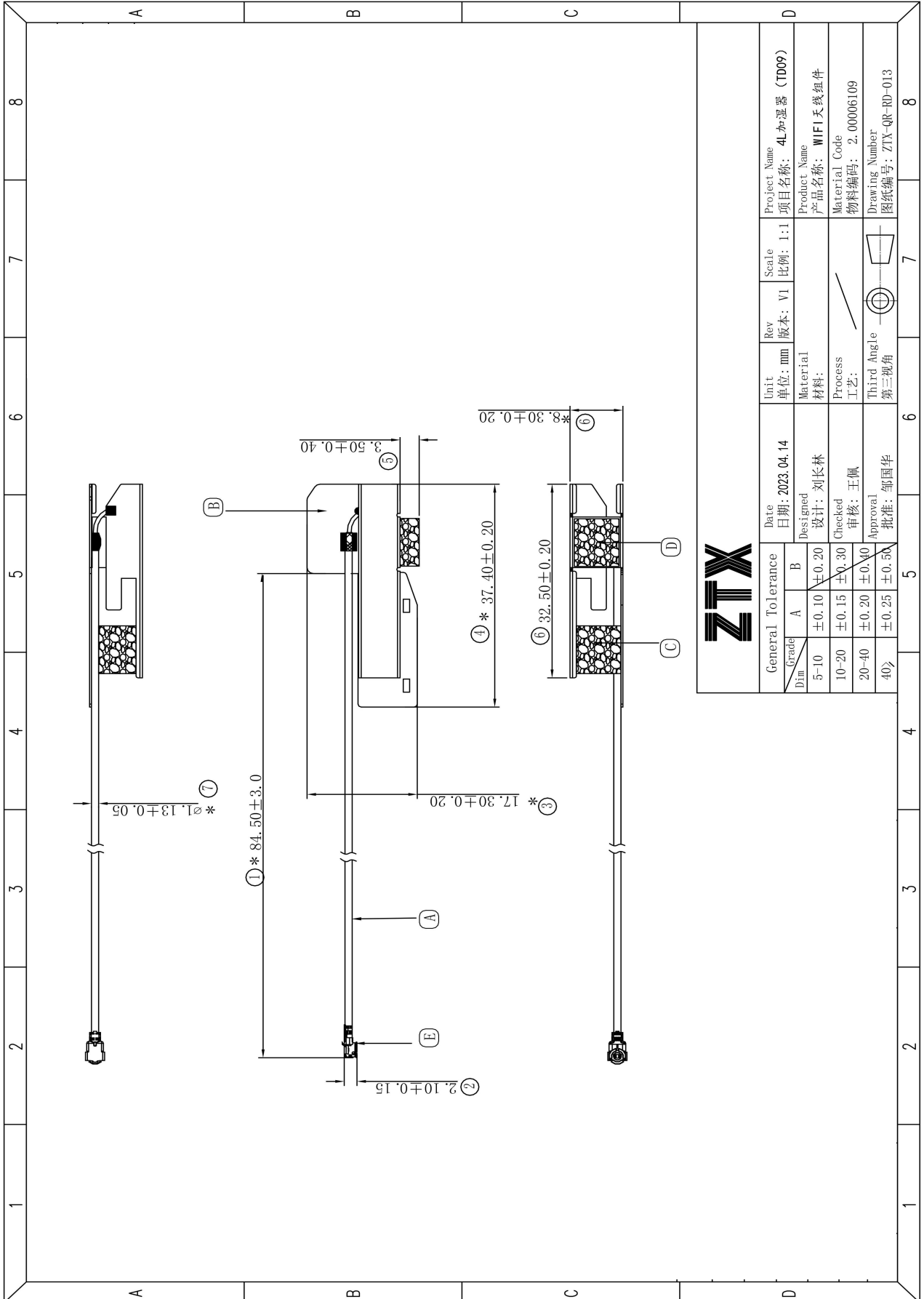
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ANTENNA SPECIFICATION

1. Mechanical Specification

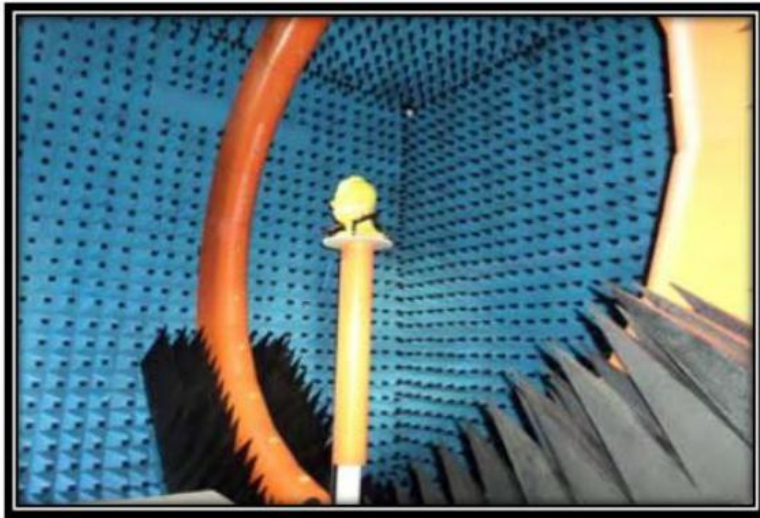
1-1 Mechanical Configuration (WIFI antenna)



General Tolerance		Date	Rev	Unit	Scale	Project Name
Dim	Grade	日期: 2023.04.14	版本: V1	单位: mm	比例: 1:1	项目名称: 4L 加速器 (TD09)
5-10	A	Designed		材料:		产品名称: WIFI 天线组件
10-20	B	设计: 刘长林		工艺:		物料编码: 2.00006109
20-40	C	Checked		Third Angle		图纸编号: ZTX-QR-RD-013
40>	D	审核: 王佩		第三视角		
		Approval				
		批准: 邹国华				

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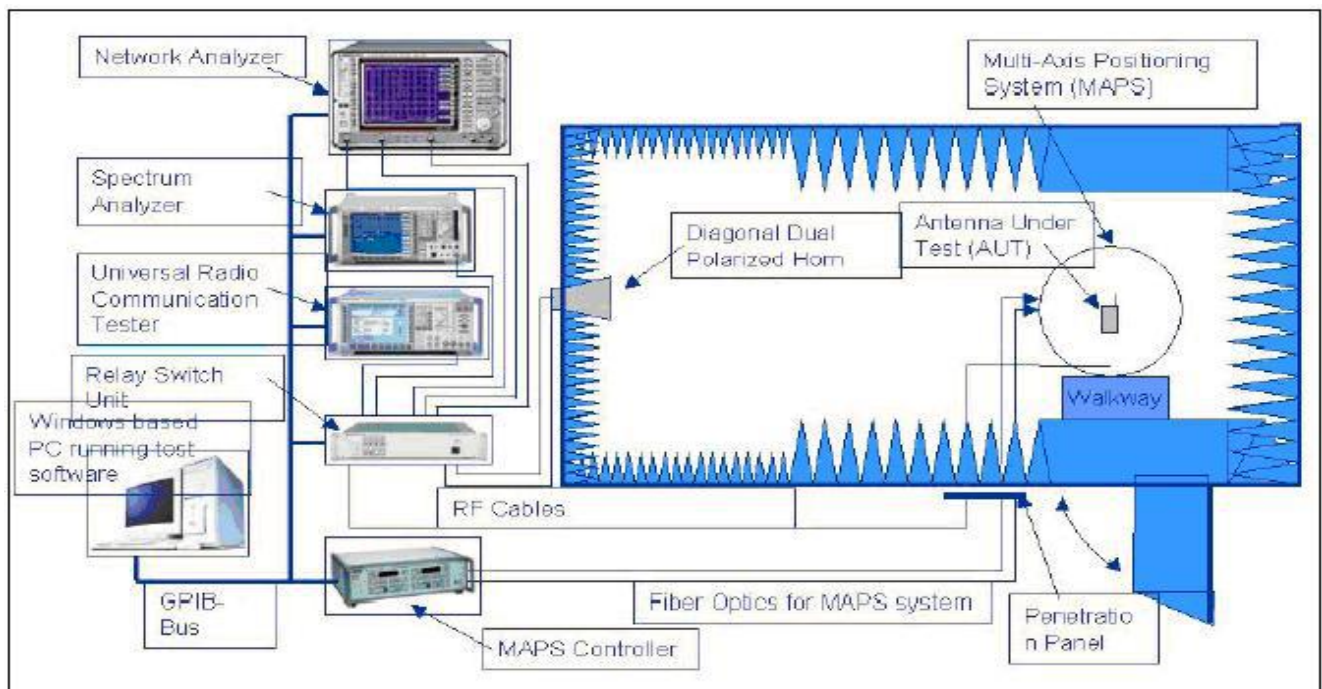
2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



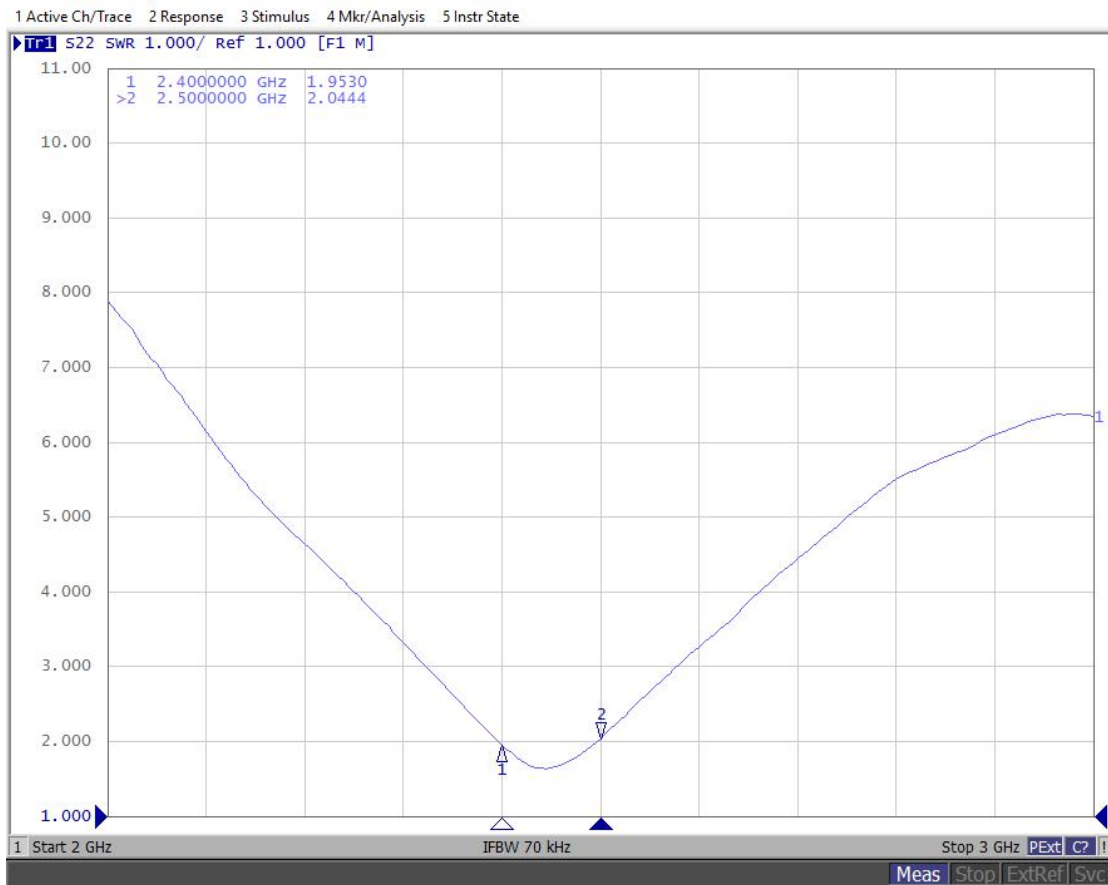
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3. Test Results Summary

3-1 OTA Test

B	Channels	TRP	TIS
	1	14.58	-82.48
	6	14.59	-82.05
	11	13.97	-81.99
G	Channels	TRP	TIS
	1	12.42	-68.48
	6	12.28	-69.05
	11	12.63	-68.39
N	Channels	TRP	TIS
	1	12.34	-62.48
	6	12.67	-63.05
	11	13.71	-62.99

3-2 VSWR

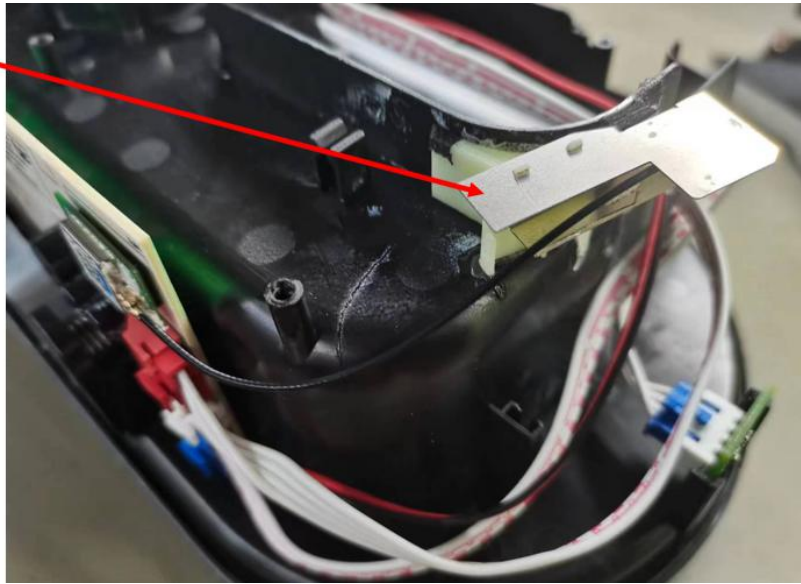


3-3 No-source test data

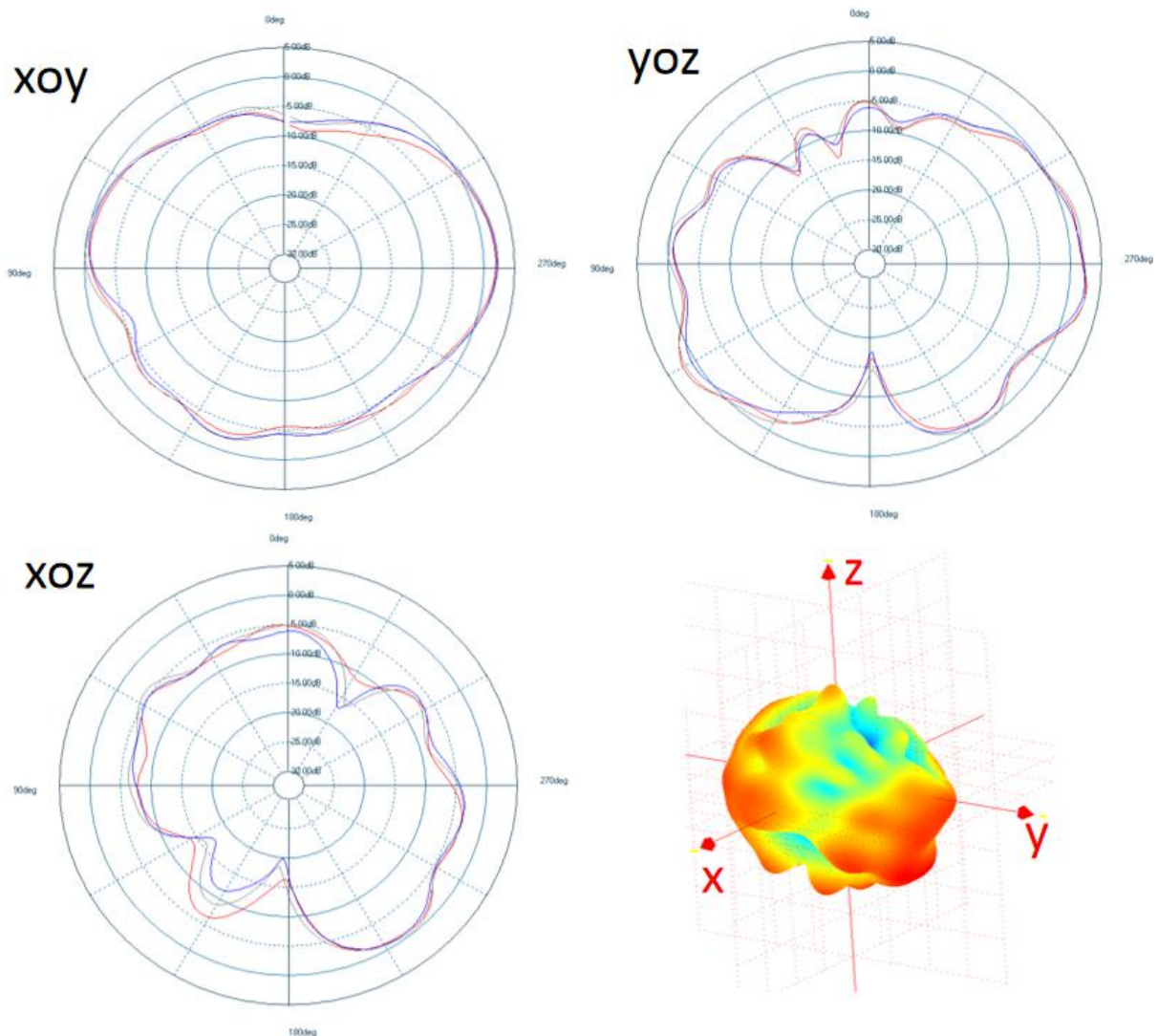
Frequency	Efficiency	Efficiency .dB	Gain .dBi
2400MHz	55%	-2.61	2
2450MHz	57%	-2.47	1.98
2500MHz	54%	-2.7	1.87

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3-4 Environment treatment



3-5 2D/3D Radiation Pattern Results



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4.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1. Temperature: $+70 \pm 2^{\circ}\text{C}$ 2. Humidity: 90~95%RH 3. Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1. Temperature: $-30 \pm 2^{\circ}\text{C}$ 2. Humidity: 0%RH 3. Time: 48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.