

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	Anker	
CS P/N(客户机种)	V8110	T8110
PART NAME(品名)	WIFI天线/ WIFI antenna	
Antenna type(天线类型)	PCB + Hardware shrapnel PCB+五金钢片	
FREQUENCY(频率)	2.4-2.5GHz	
ANTENNA MANUFACTURER (天线制造商)	深圳市中天迅通信技术股份有限公司 Shenzhen ZTX Communication Technology Co., Ltd	
ZTX NO.(物料编号)	2.00005767	
DATE(日期)	2023-04-19	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注): _____

Sign(客户确认签字盖章):

MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
Guohua Zou	Yilin Zou	Guangli Xiang		

ZTX 中天迅

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ANTENNA SPECIFICATION

CUS P/N :V8110 WIFI天线组件
ZTX P/N :V8110 WIFI天线组件

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Revision history

版本	日期	状态
A1	2023-04-19	首版

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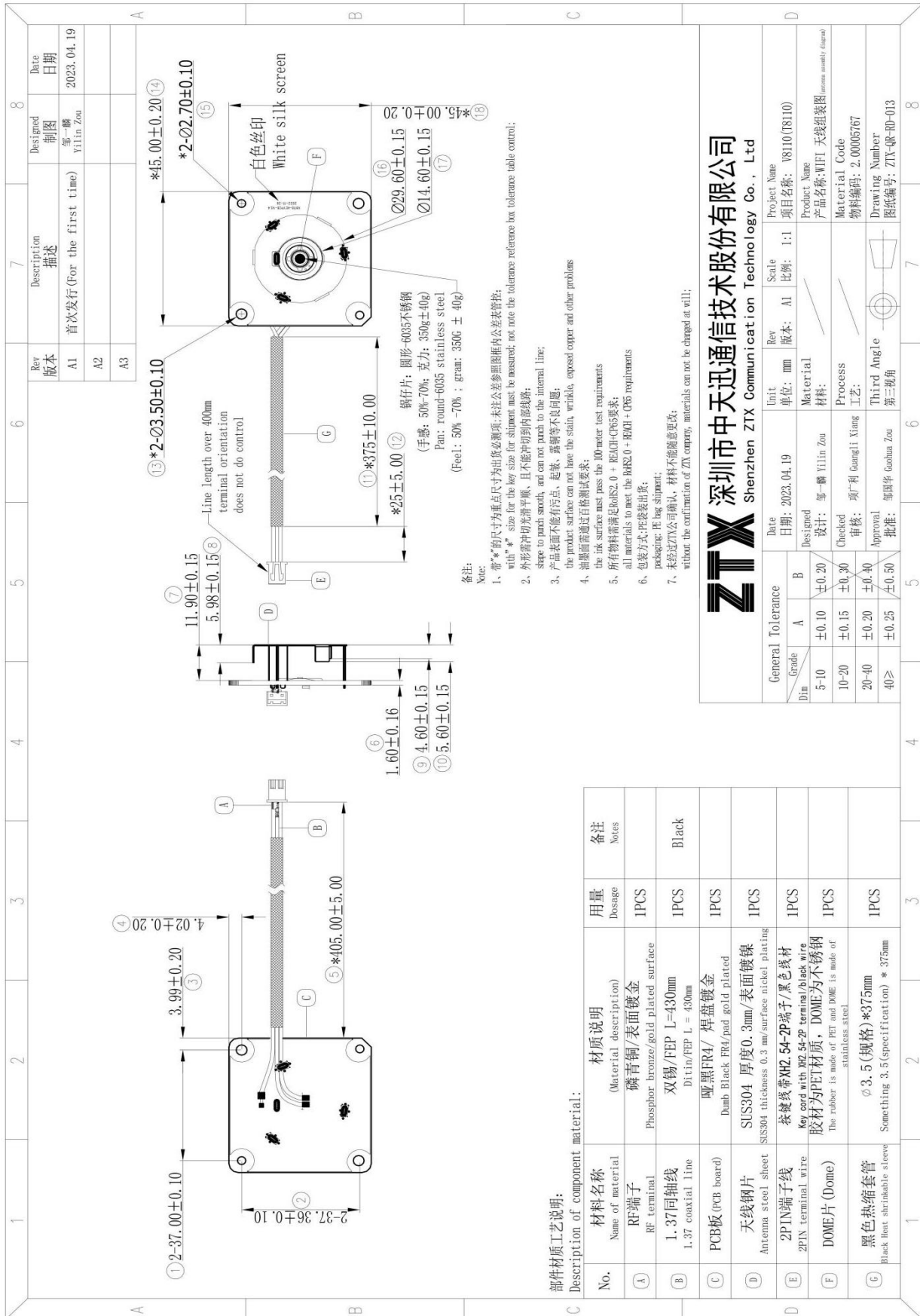
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1. Mechanical Specification

1-1 Mechanical Configuration (V8110 WIFI天线组件)



部件材质工艺说明:

Description of component material:

No.	材料名称 Name of material	材质说明 (Material description)	用量 Dosage	备注 Notes
(A)	RF端子 RF terminal	磷青铜/表面镀金 Phosphor bronze/gold plated surface	1PCS	
(B)	1.37同轴线 1.37 coaxial line	双锡/FEP L=430mm Ditin/FEP L = 430mm	1PCS	
(C)	PCB板 (PCB board)	哑黑FR4/焊盘镀金 Dumb Black FR4/pad gold plated	1PCS	Black
(D)	天线钢片 Antenna steel sheet	SUS304 厚度0.3mm/表面镀镍 SUS304 thickness 0.3 mm/surface nickel plating	1PCS	
(E)	2PIN端子线 2PIN terminal wire	按键线带XHZ 54-2P端子/黑色线材 Key cord with XHZ 54-2P terminals/black wire	1PCS	
(F)	DOME片 (Dome)	胶材为PET材质, DOME为不锈钢 The rubber is made of PET and DOME is made of stainless steel.	1PCS	
(G)	黑色热缩套管 Black heat shrinkable sleeve	Ø 3.5 (规格) *375mm Something 3.5 (specification) * 375mm	1PCS	



General	Tolerance	Date	Rev	Scale	Project Name
Grade	A B	日期: 2023.04.19	版本: A1	比例: 1:1	项目名称: V8110(8110)
Dim	5-10	Designed	Material		产品名称: WIFI 天线组件图 (dimension sheet) (drawing)
	10-20	设计: 郑一麟 Yilin Zou	Process		Material Code
	20-40	Checked	工艺:		物料编码: 2.0005767
	40≥	审核: 项广利 Guangli Xiang	Third Angle		Drawing Number
		批准: 郑国华 Guohua Zou	第三视角		图框编号: ZTX-QR-013

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3.Test Report



测试报告(Test Report)

样品名称 (Product name)	WIFI天线组件	样品型号 (Part Model)	V8110 (T8110)	环境温度 (Ambient temperature)	20±5℃	测试日期 (Date of test)	2023/3/24
样品数量 (Specimens)	12PCS	客户料号 (Customer number)	/	相对湿度 (Relative humidity)	50-60%RH	委托单位 (Client/Dept)	品质部
测试原因 (Test reasons)	<input checked="" type="checkbox"/> 新型号材料验证 <input type="checkbox"/> 新工艺验证 <input type="checkbox"/> ORT测试 <input type="checkbox"/> 过期物料 <input type="checkbox"/> 客户投诉要求 <input type="checkbox"/> 高不良率 <input type="checkbox"/> 其他: 定期可行性分析			测试依据 (Test documentation)	<input type="checkbox"/> 产品图纸 <input type="checkbox"/> 客户要求 <input type="checkbox"/> 其他:	<input checked="" type="checkbox"/> 天线可靠性检验基准书 <input type="checkbox"/> 出货检验基准书	
序号 (NO)	测试项目 (Test project)	样品数 (Samples Qty.)	测试仪器 (Test equipment)	测试条件与要求 (Test condition and note)	测试结果 (Test result)	结论 (Conclude) (Pass/Fail)	样品图片/实测值
1	盐雾测试	3	盐雾测试机	条件: 1.将产品以30度±5度放置于试验箱 2.调试好试验箱参数: NaCl(无水); 浓度5%±1%; pH值: 6.5~7.2; 试验室温度: 32-38℃; 压缩空气压力: 1.0±0.01(KG/M2)喷雾量: 1.0~2.0ML/80CM2/H.相对湿度: 85%±2%; 试验品放置角度: 30度+/-10度 3.放置时间为48小时. 4.清洗后在室温条件下放置2H观察 要求: 镀(涂)层无脱落、起泡、腐蚀、氧化等不良现象; 产品表面不可有锈斑等不良现象	均未出现镀层脱落及氧化现象。	Pass	
2	高温测试	3	高低温交变湿热试验箱	1.将样品放入高温 85℃ 的环境中保持48小时后取出 2.在室温条件下放置2H.	试验后产品无变形, 无变色, 无脱落, 电性功能完好	Pass	
3	低温测试	3	低温冰箱	1.将样品放入低温 -40℃ 的环境中保持48小时后取出 2.在室温条件下放置2H.	试验后产品无变形, 无变色, 无脱落, 电性功能完好	Pass	
4	高温高湿储存测试	3	高低温交变湿热试验箱	1.取样3pcs 2.将测试样品置于测试箱中(温度70±2℃, 湿度90%~95%RH), 放置48H后取出检查.	试验后产品无变形, 无变色, 无脱落, 电性功能完好	Pass	

备注(Comments):

核准(Approved by): 邓孝华

审核(Checked by): 易爱玲

测试(Name of operator): 李丽华

表单编号: ZTX-QR-QA-076 版本: A1

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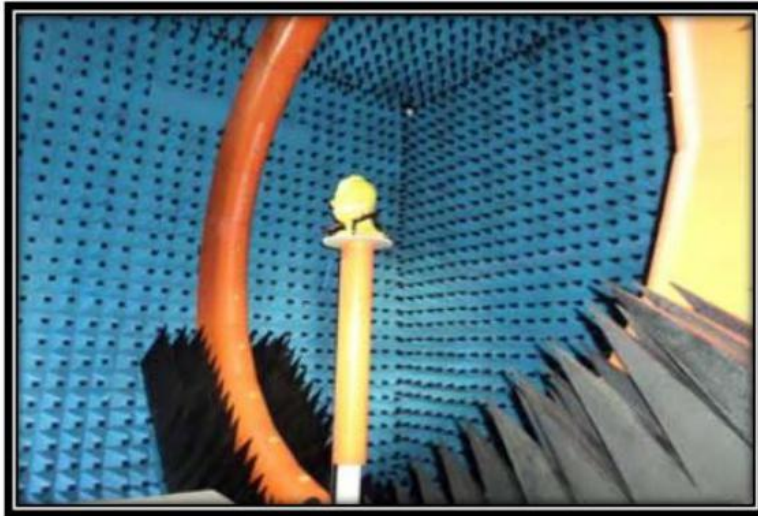
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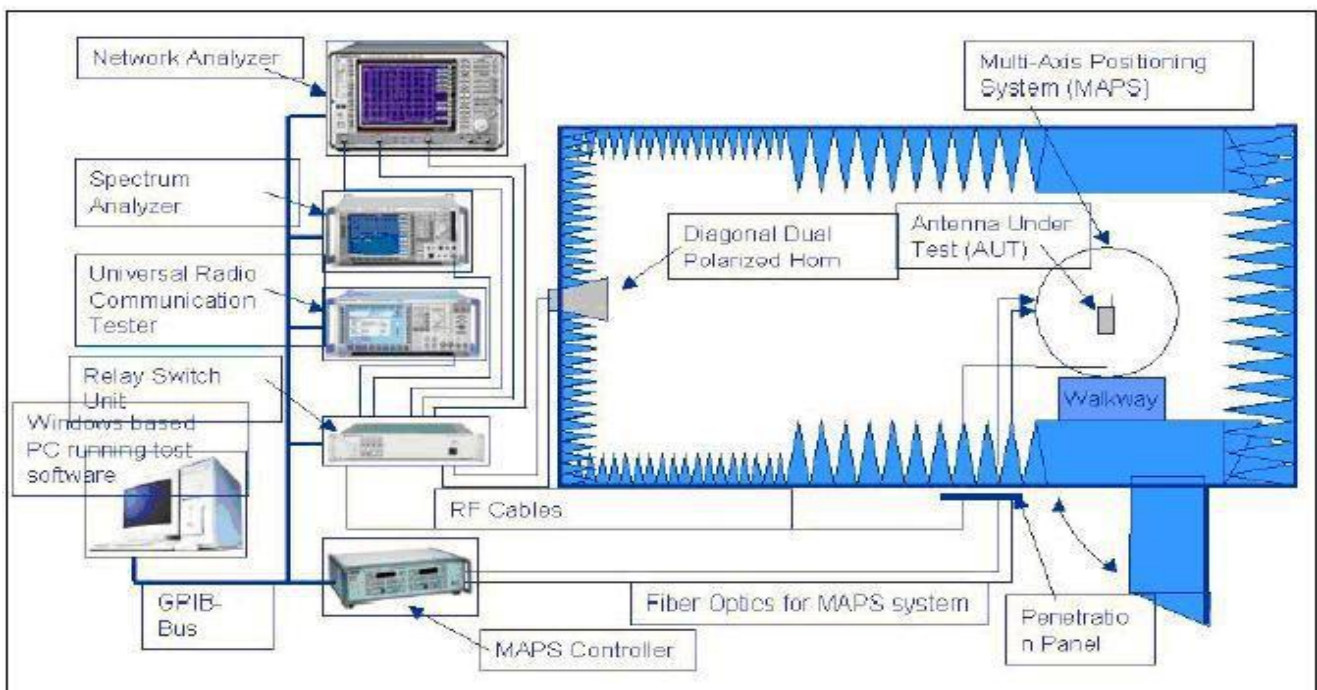
4.Test equipment



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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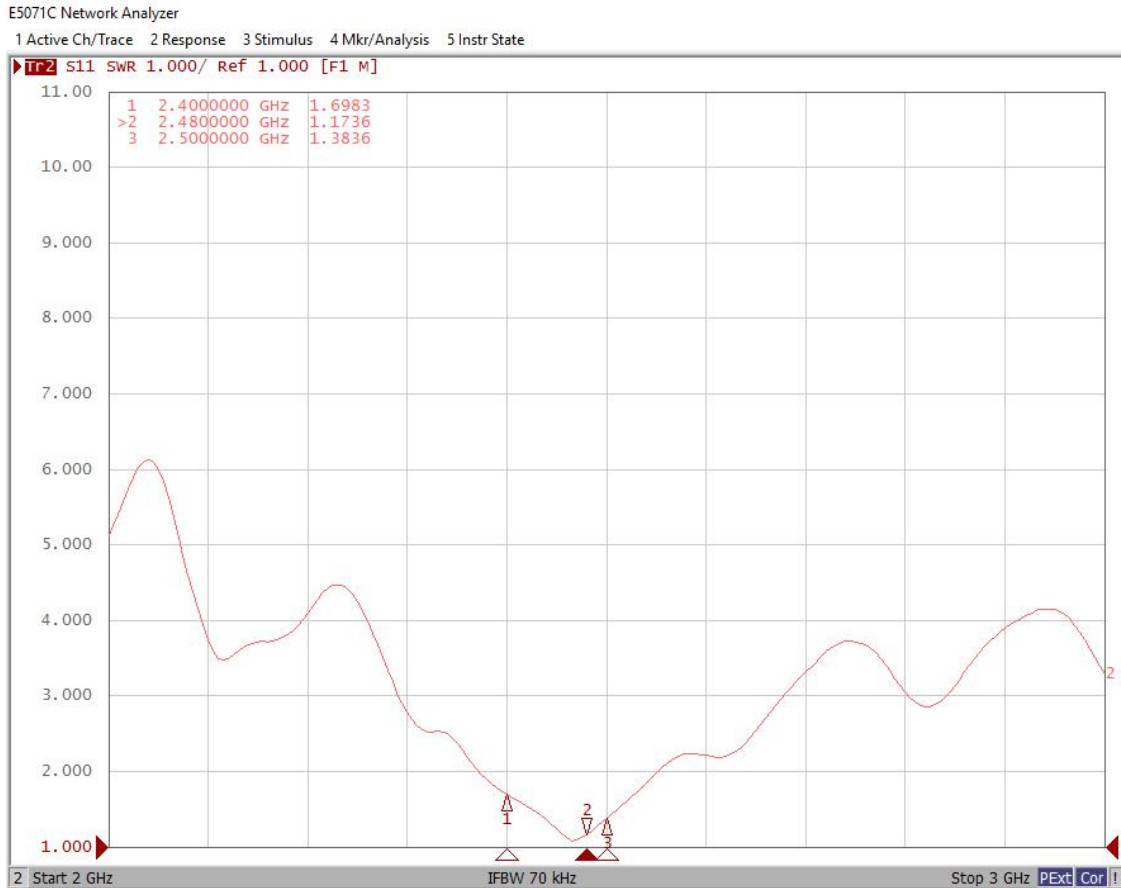
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5.Test Results Summary

5-1 VSWR



5-2 Passive Test

Frequency	Efficiency	Efficiency dB	Gain dB
2.4E+09	42%	-3.79	2.7
2.41E+09	42%	-3.77	2.7
2.42E+09	43%	-3.63	2.7
2.43E+09	44%	-3.55	3.0
2.44E+09	44%	-3.55	3.0
2.45E+09	44%	-3.52	2.7
2.46E+09	45%	-3.48	2.9
2.47E+09	45%	-3.46	3.0
2.48E+09	45%	-3.46	2.9
2.49E+09	44%	-3.59	2.9
2.5E+09	43%	-3.70	2.9

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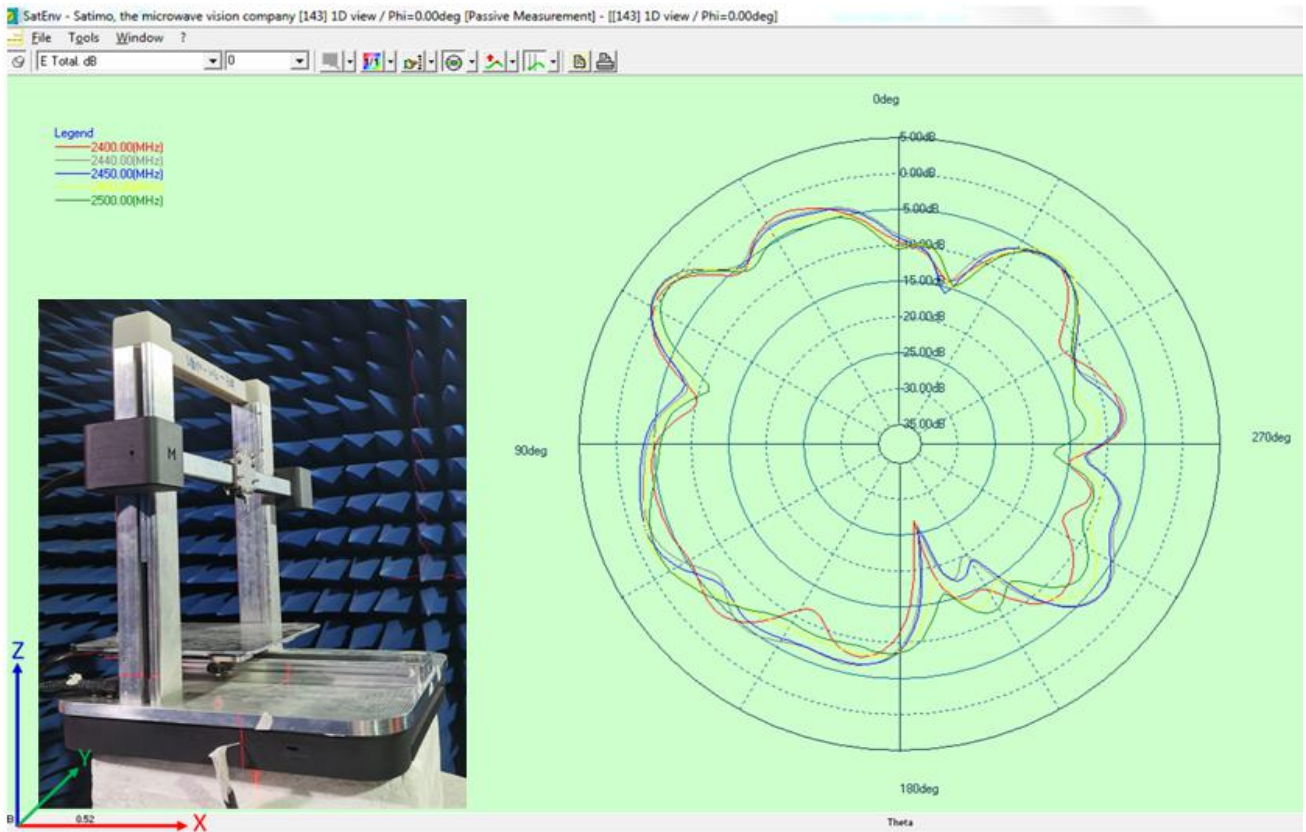
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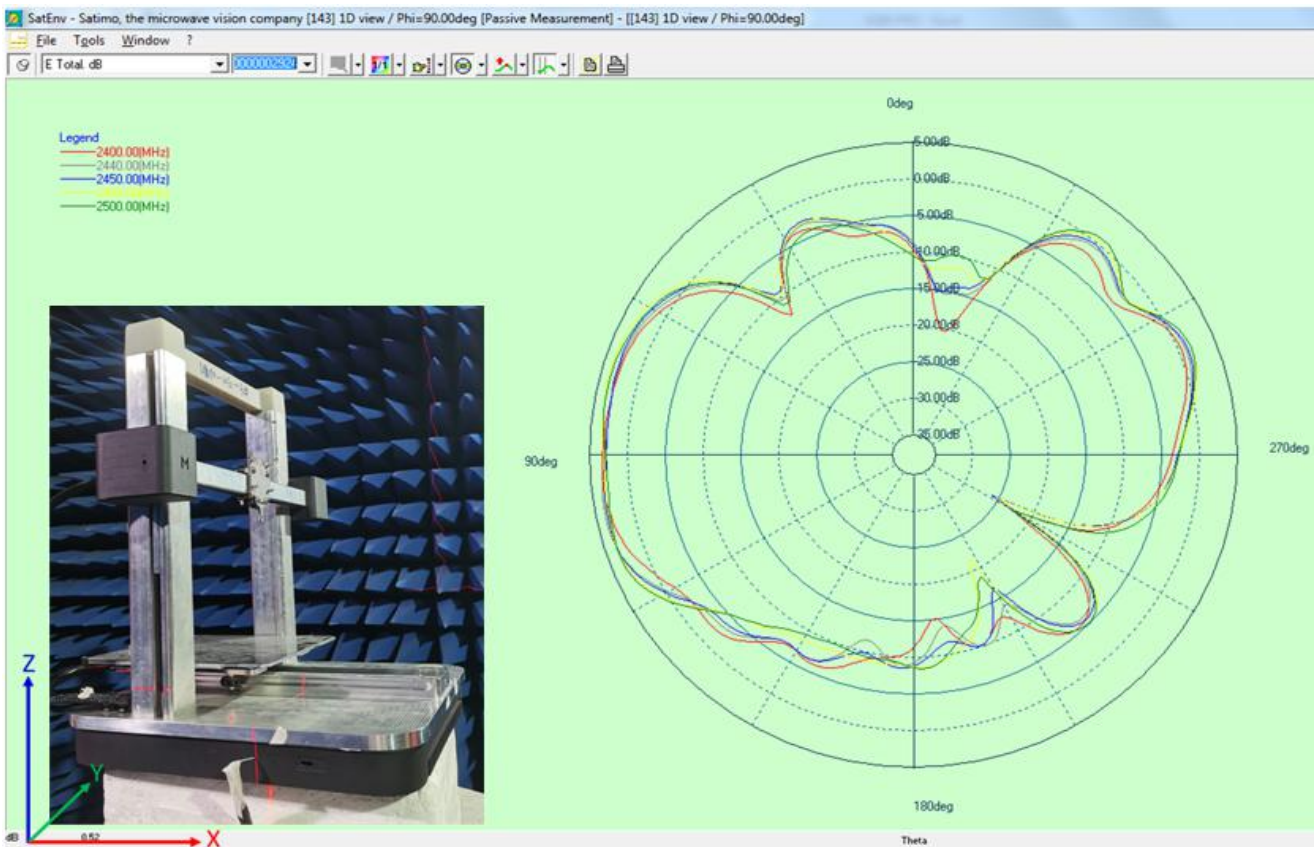
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5-3 2D/3D Radiation Pattern Results

Phi0



Phi90



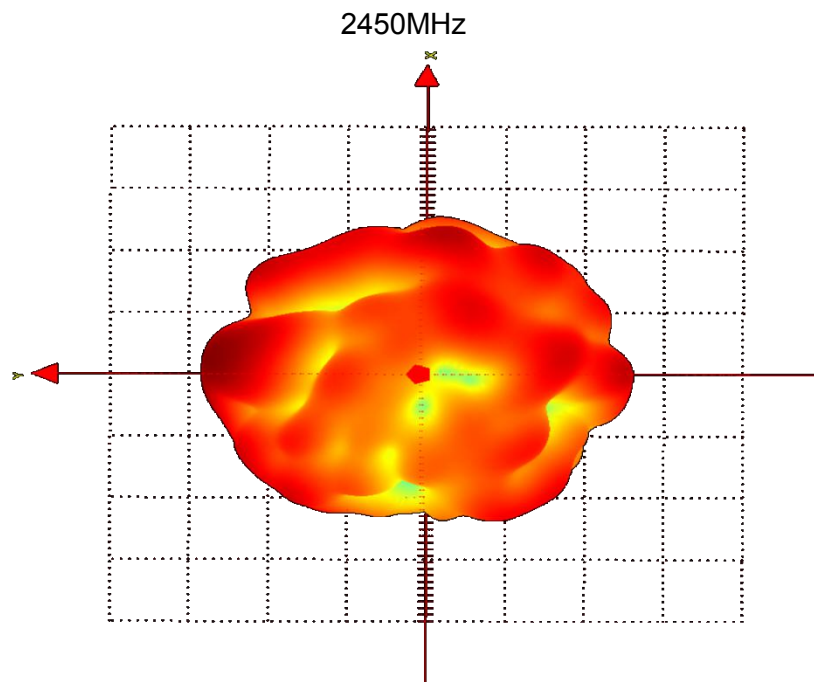
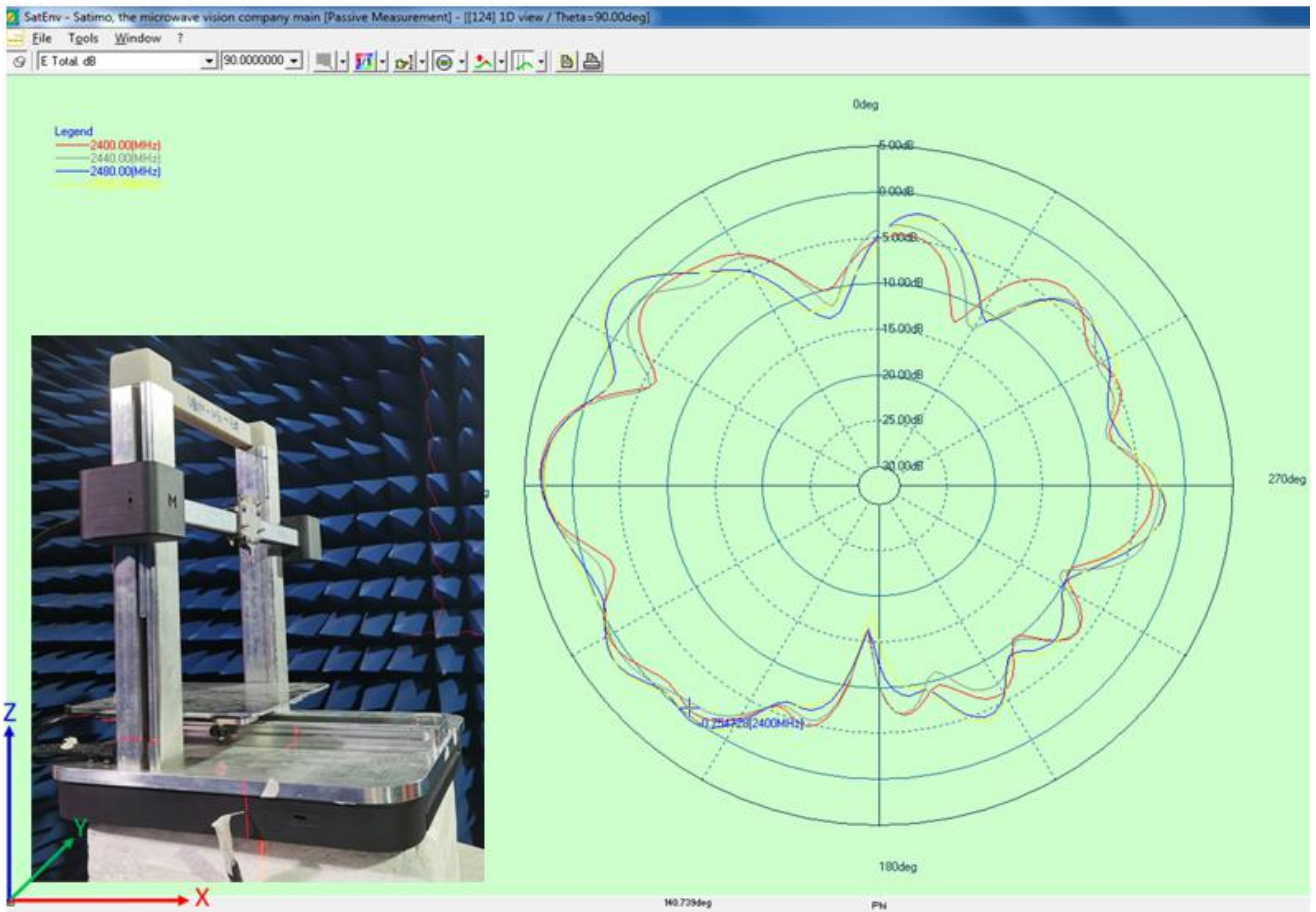
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Theta90



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5-4 Environment treatment

天线采用PCB+弹片制式，总尺寸为45mm*45mm*13.5mm，弹片直径29.6mm，高出底座平面1.5mm，如下图所示。



