Shenzhen Lxc Electronics Technology Co ., Ltd

深圳市连兴创电子科技有限公司

APPROVAL SHEET

承认书

客户（Customer）:_____海泰_____

产品（Product）: 2.4G-FPC 天线 L:48MM

型号（Model）:_____WIFI 天线

料号（Part Number）:__W620121-A-01-P

制作人（Written By）:_____唐红交_____

签发时间（Issued Date）:___2024-07-02_____

客户 CUSTOMER

频率范围 Frequency range	WIFI:(2.4/2.5)
驻波比系数 VSWR	<4.0
输入阻抗 Input Impedance	50（Ω）
极化方式 Polarization	垂直极化 Vertical Polarization
半功率波束（3dB）HPW	180° H-plane 120° E-plane

RF by		**Checked by**	
ME by		**Date**	
Customer Confirm			

8Project:		Author:Wang	File Name:
Date: 2024-07-02			**W620121-A-01-P**
TEST:	Language:	Check: Zhong	
A	English		

地址:深圳市龙华区大浪街道华芳路 12 号金瑞华工业园 C 栋 4 楼
电话：0755-29195258 传真：0755-29590286
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Revision History

Date	Revision	Description of Changes
2024-07-02	RA	Measured with SUS301 sample.

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1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the program. We test the antenna with the latest version handset. And it seems to be acceptable.

2 General Description

2.1 Components/Part revisions

VSWR: Voltage Standing Wave Rate.

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

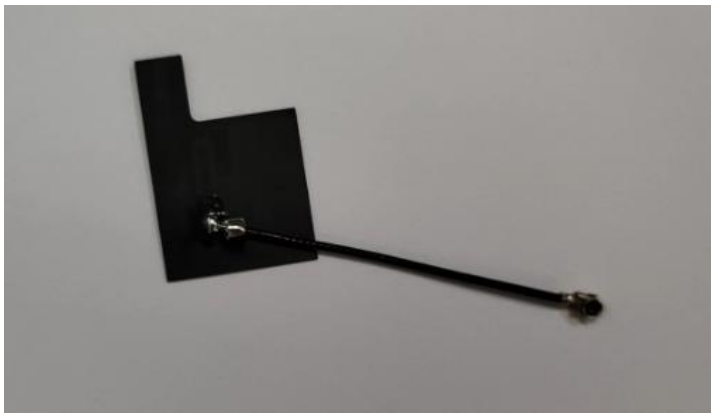
4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Gain & Radiation Patterns

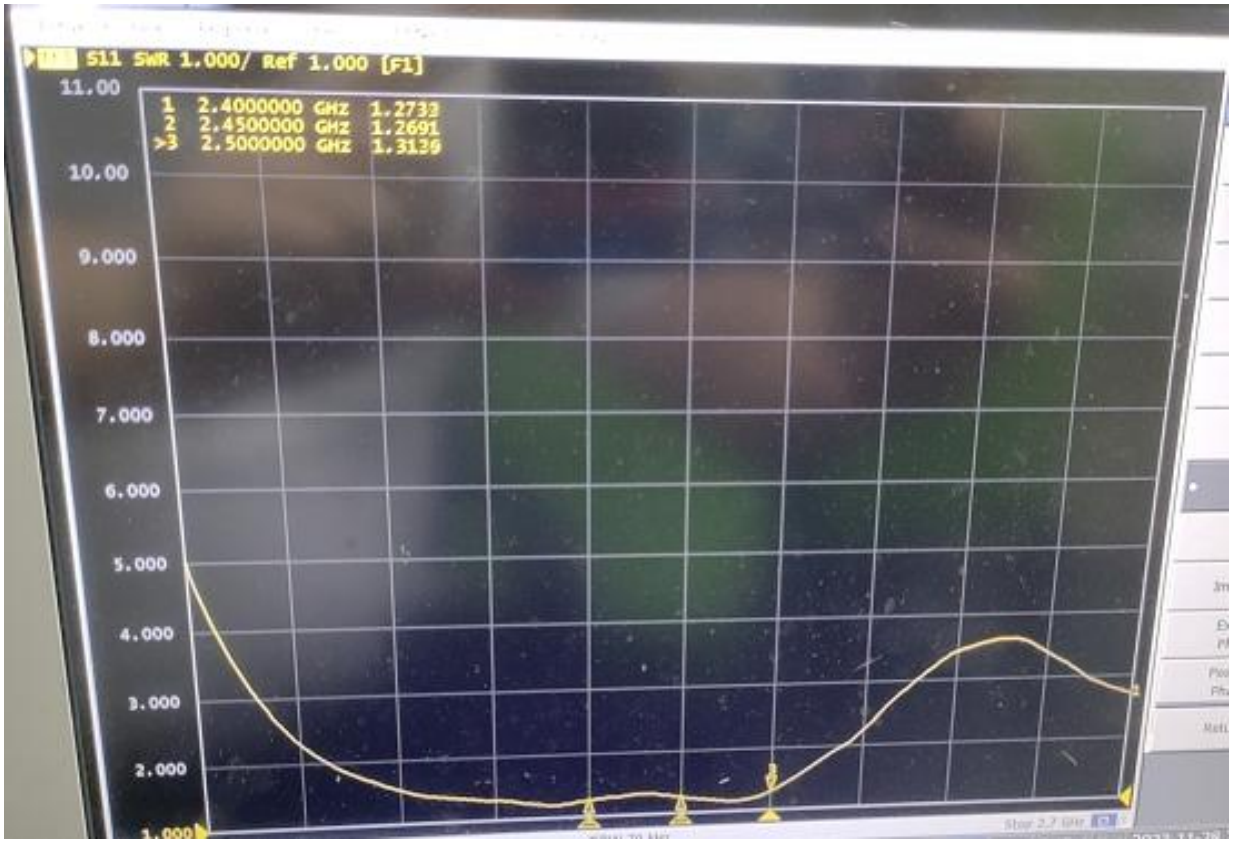
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than –30 dB reflectivity from 800 MHz through 3 GHz and an 18" diameter spherical quite zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

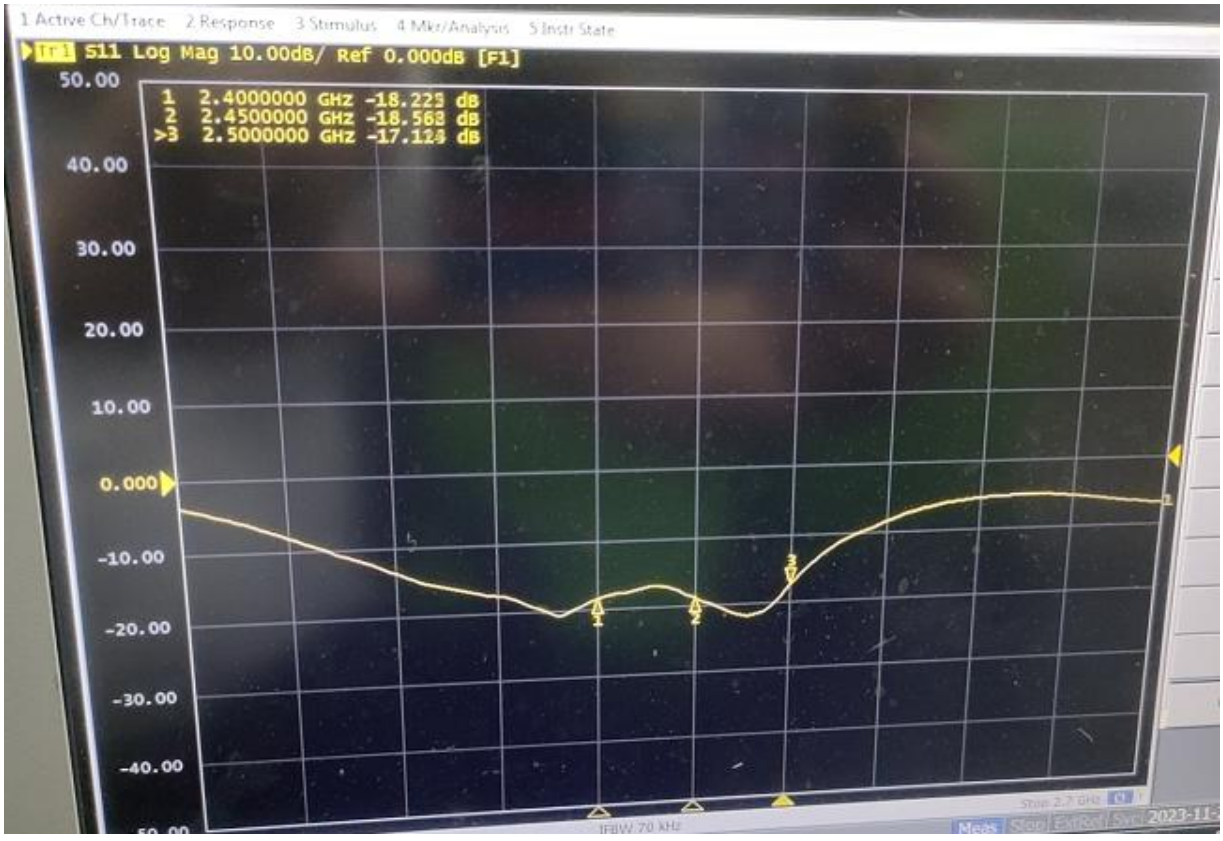
4.1.3 Matching Circuit Description



4.2 Measurement Data

4.2.1 Active result（WIFI）





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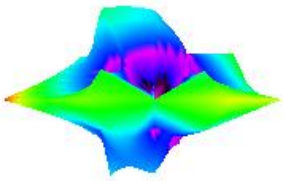
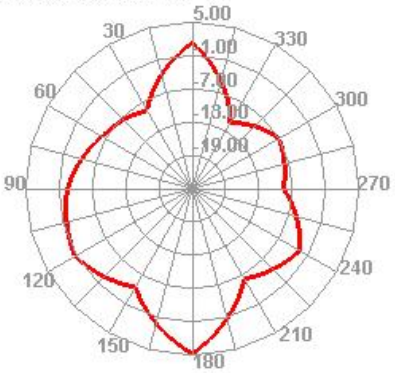
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	60.97	-2.15	3.51
2410	61.42	-2.12	3.67
2420	63.59	-1.97	3.91
2430	64.88	-1.88	4.13
2440	69.58	-1.58	4.54
2450	69.85	-1.56	4.63
2460	71.41	-1.46	4.75
2470	71.81	-1.44	4.87
2480	68.44	-1.65	4.74
2490	70.3	-1.53	4.94
2500	69.71	-1.57	4.9

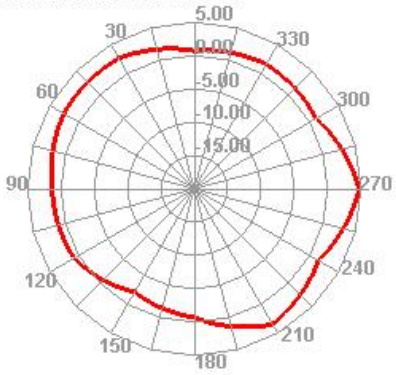
2400.000MHz



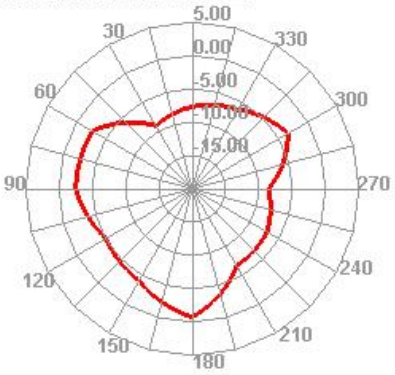
2400.000MHz H



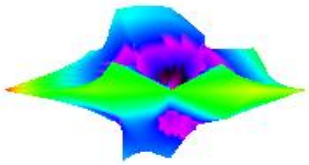
2400.000MHz E1



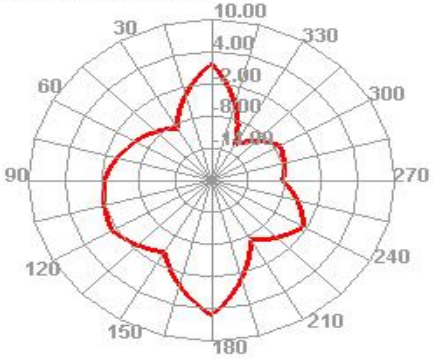
2400.000MHz E2



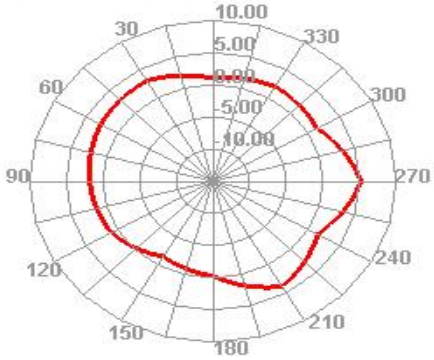
2410.000MHz



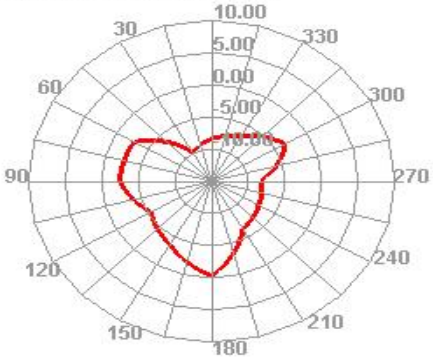
2410.000MHz H



2410.000MHz E1



2410.000MHz E2



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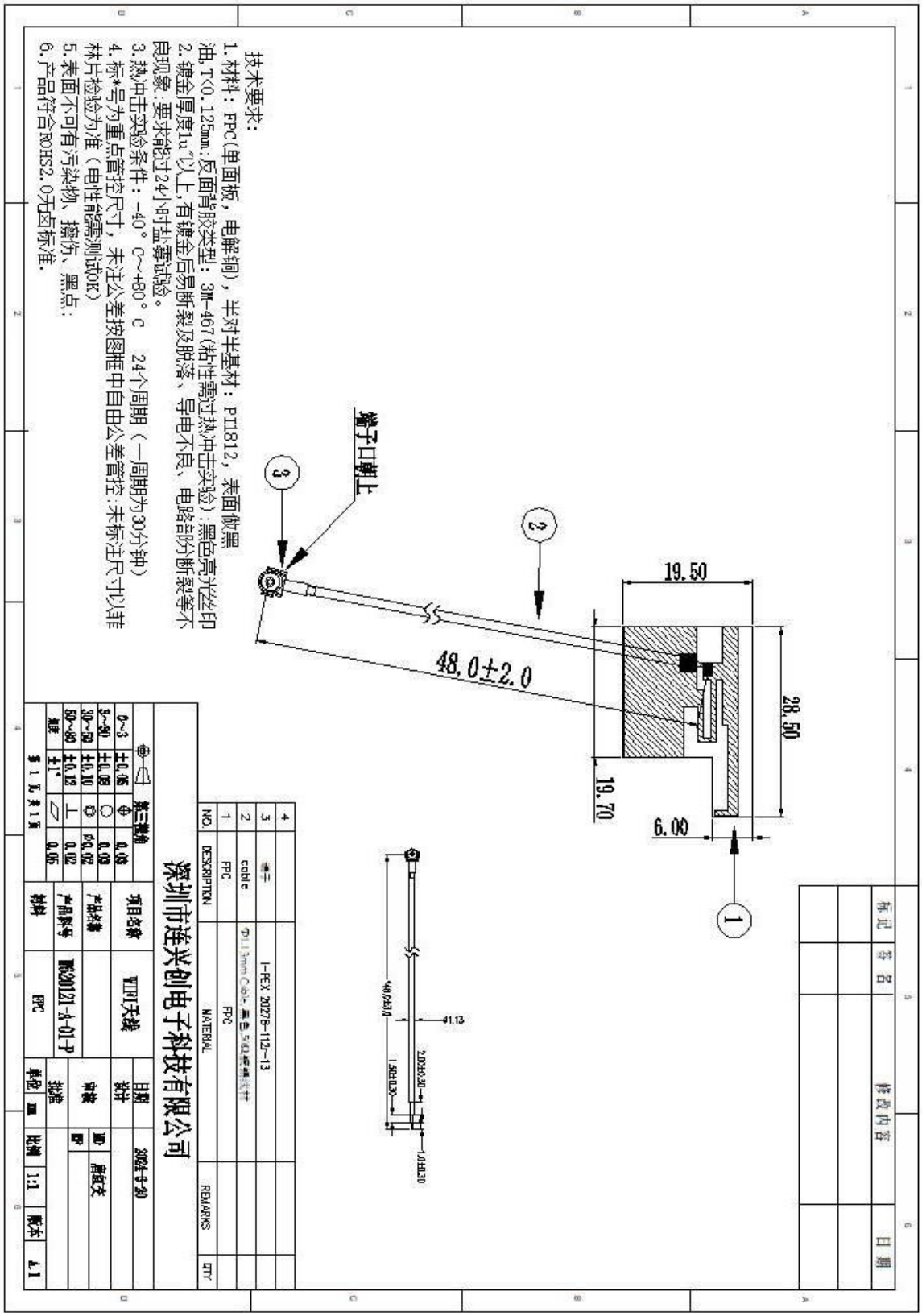
6 Mechanical drawing



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7 Reliability tests

7.1 Test content

No	试验项目	试验方法	判定基准
1	盐水喷雾试验	把盐浓度 5%的溶液喷雾 48HR	不能有变色，歪（变形）脱落等的缺点 腐蚀面积不能过大

7.2 Test results

NO	样品数	试验期间	实验结果	备注
1	50	24 小时	**OK**	技术等级为 9 级 腐蚀<0.4mm
2	50	48 小时	**OK**	技术等级为 9 级 腐蚀<0.4mm

8Conclusion

From the above test results, we can know the electrical performance of the antenna is seems good.

Shenzhen Lxc Electronics Technology Co ., Ltd ,look forward to your confirmation, thank you for your cooperation!

产品包装规范

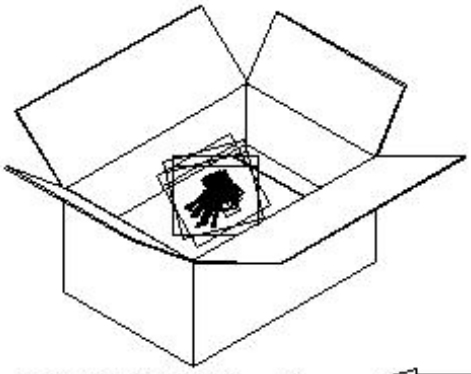
产品名称 W620121-A-01-P	版本：A
产品规格：WIFI天线	客户：海泰

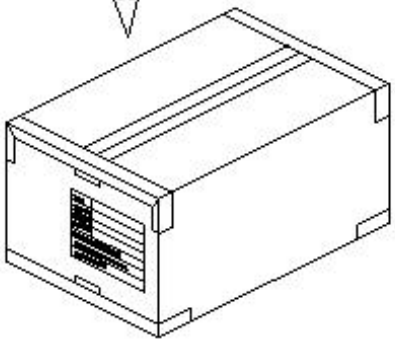
一：成品天线

二：50PCS装入小胶袋内用透明胶纸封好.

三：把封好的小包天线装入夹链袋内，每袋20包，共1000PSC

四：装箱，每5包装一箱，一箱5000PCS成品天线(以实际数量为准)





五：封箱,外箱贴我司生产标签和ROHS标签

批准：_____ 确认：_____ 拟制：唐红交

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