

Shenzhen Lxc Electronics Technology Co ., Ltd
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Industrial Park, No. 12, Huafang Road, Dalang
Street, Longhua District, Shenzhen

Model: XBY240035

Revision History

Date	Revision	Description of Changes
2025-01-07	RA	Measured with SUS301 sample.

深圳市连兴创电子科技有限公司	1
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8Project:		Author:Wang	L018
Date: 2025-01-07			
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 Shenzhen Lxc Electronics Technology Co ., Ltd			

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 quiet 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 (BT WIFI)

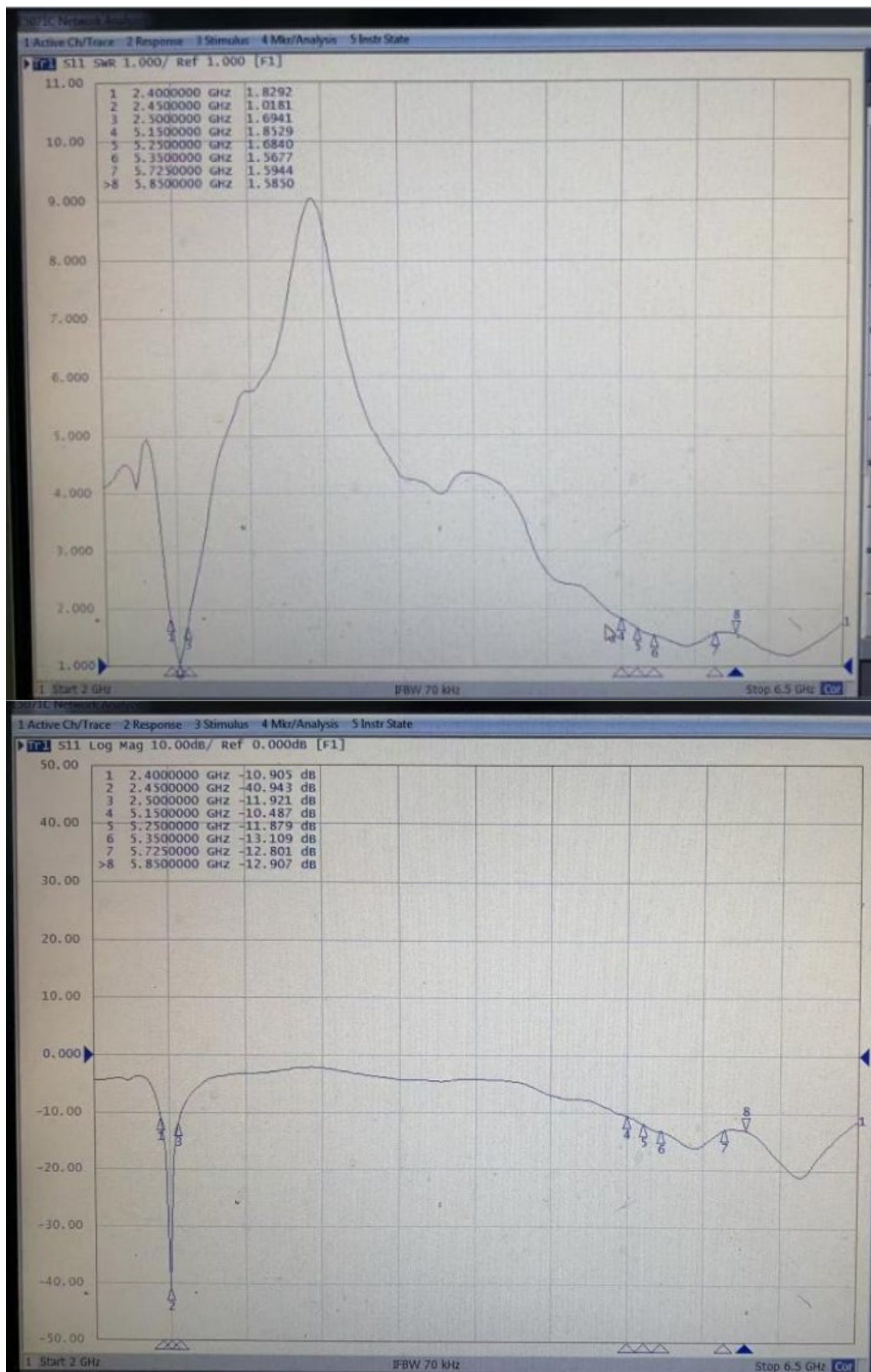


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整机有源测试数据

WiFi(2.4G/B)	CH	功率(11M)	灵敏度(11M)	WiFi(2.4G/N)	CH	功率(MCS7)	灵敏度(MCS7)
	1	16.25	-81.62		1	15.06	-67.72
	6	16.93	-81.18		6	15.17	-67.55
	11	17.06	-81.50		11	15.25	-67.26
WiFi(2.4G/G)	CH	功率(54M)	灵敏度(54M)	WiFi(5G/A)	CH	功率(54M)	灵敏度(54M)
	1	15.13	-71.28		36	15.1	-70.3
	6	15.28	-71.38		149	15.2	-72.2
	11	15.82	-71.95		165	15.4	-71.5

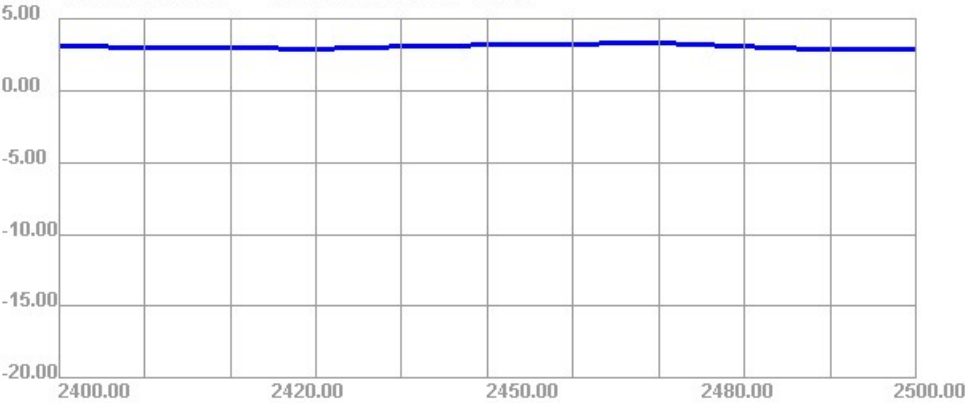
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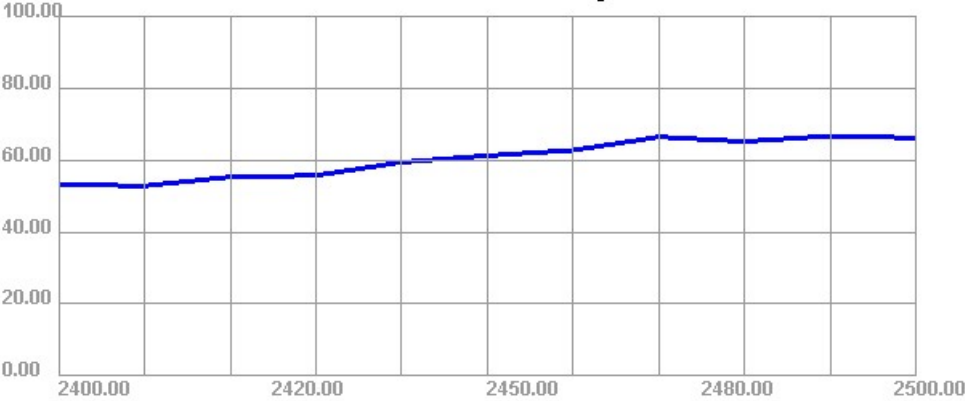
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Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	51.59	2.67
2410	51.72	2.66
2420	50.55	2.5
2430	50.26	2.36
2440	52.61	2.47
2450	53.09	2.2
2460	54.37	1.9
2470	54.77	1.41
2480	54.01	1.42
2490	51.7	1.34
2500	51.41	1.23

2400.00MHz - 2500.00MHz Gain

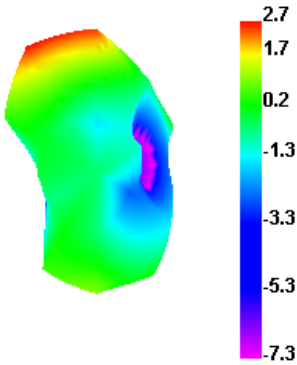


2400.00MHz - 2500.00MHz Efficiency

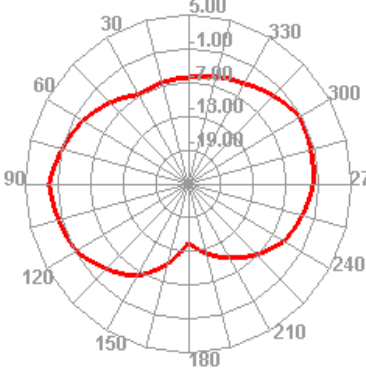


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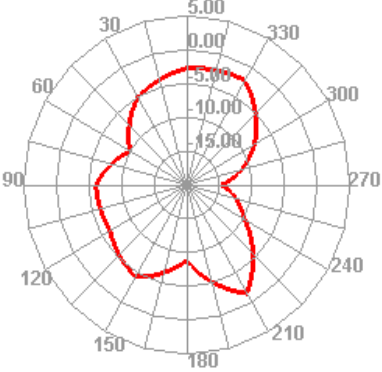
2400.000MHz



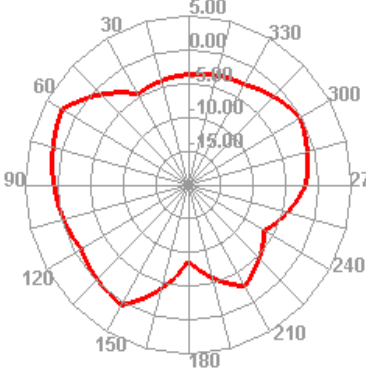
2400.000MHz H



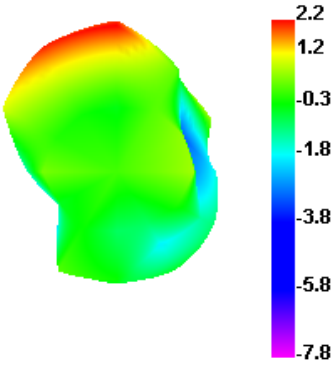
2400.000MHz E1



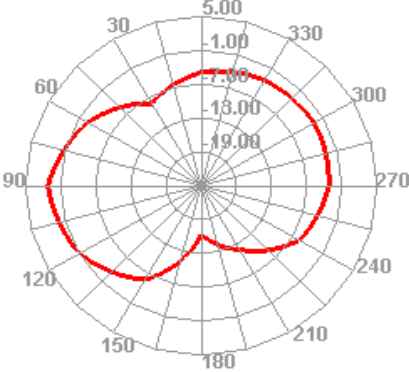
2400.000MHz E2



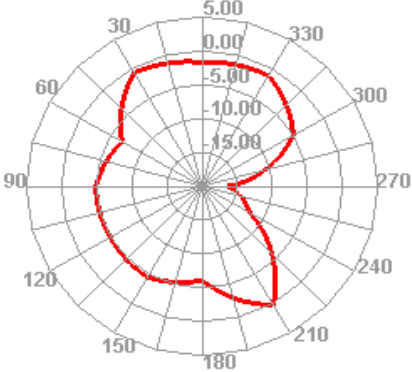
2450.000MHz



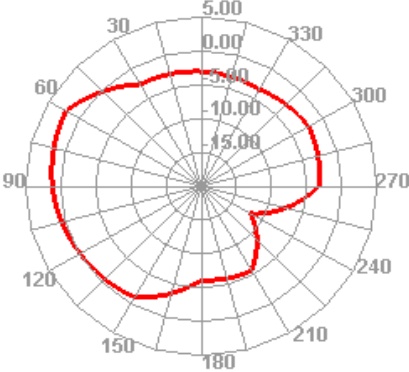
2450.000MHz H



2450.000MHz E1

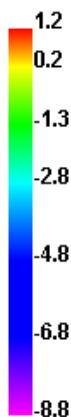
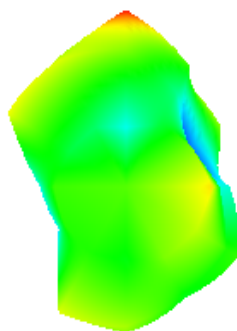


2450.000MHz E2

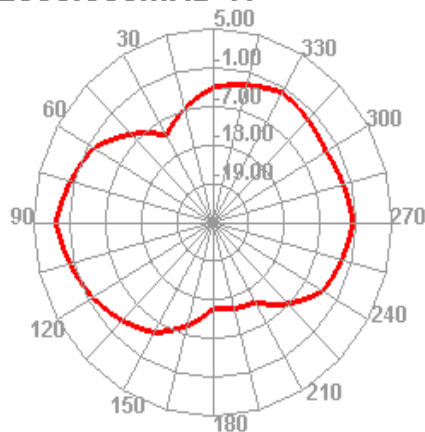


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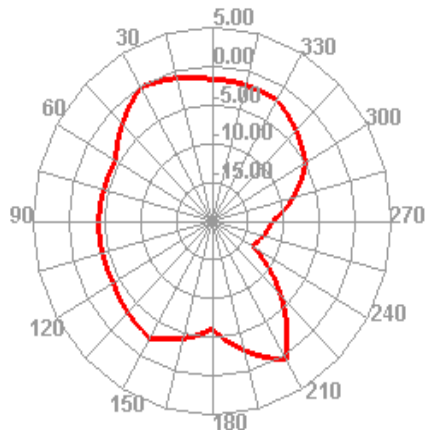
2500.000MHz



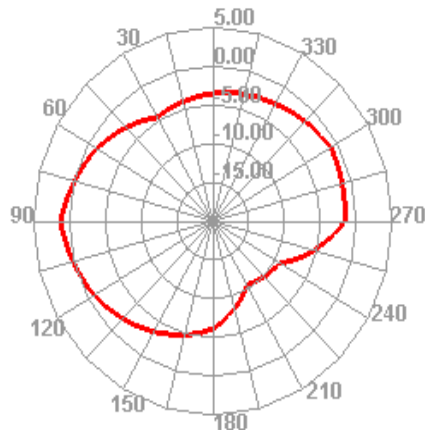
2500.000MHz H



2500.000MHz E1

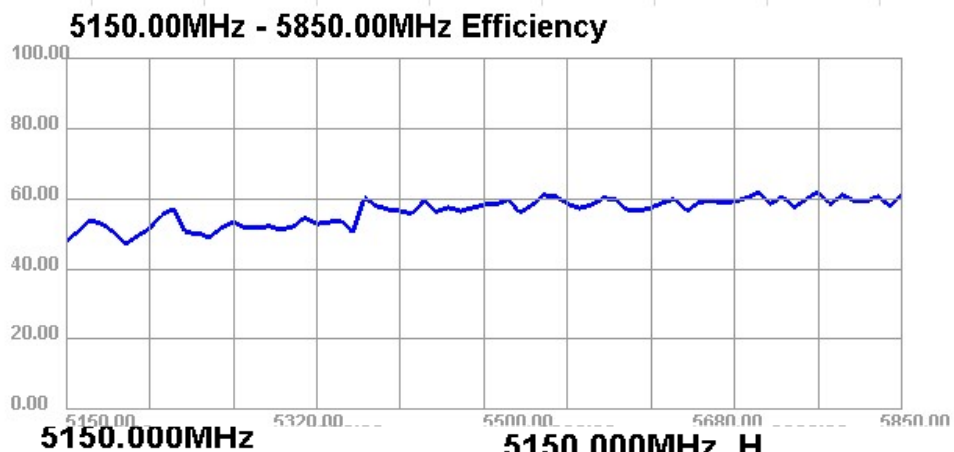
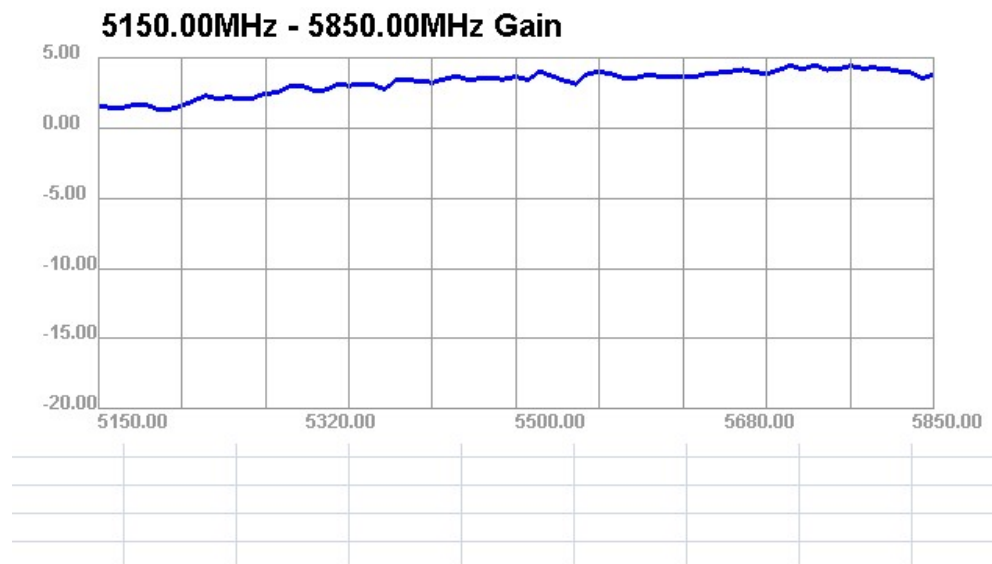


2500.000MHz E2

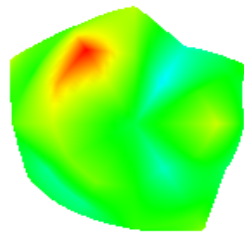


Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	50.95	1.33
5350	52.9	2.23
5550	55.89	1.98
5650	51.36	2.62
5850	56.45	2.51

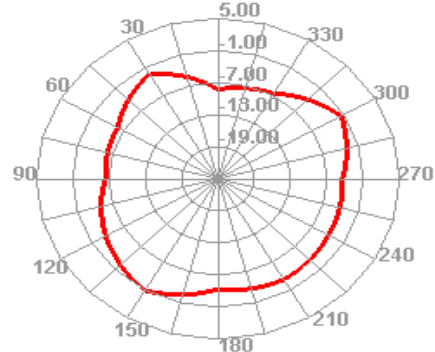
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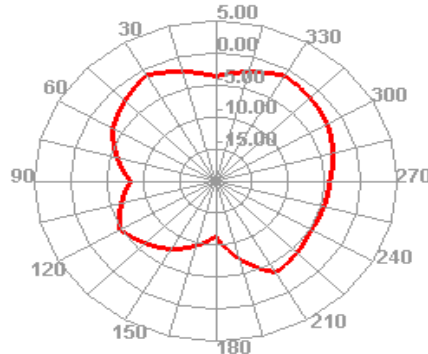
5150.000MHz



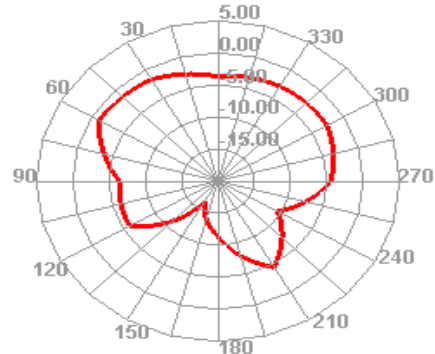
5150.000MHz H



5150.000MHz E1

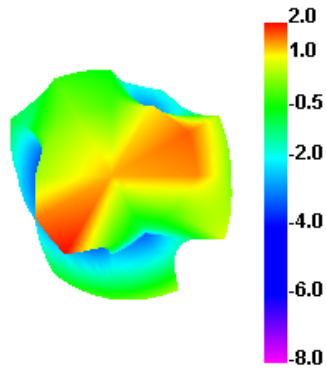


5150.000MHz E2

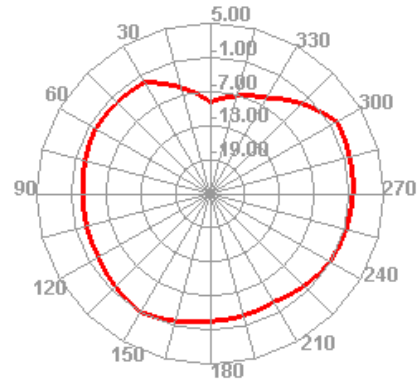


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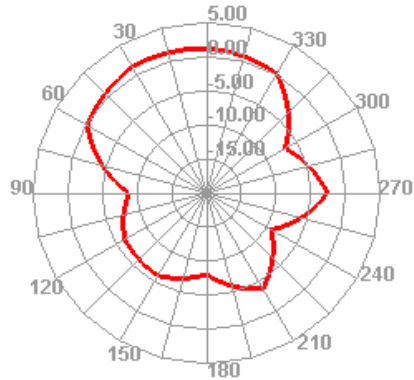
5500.000MHz



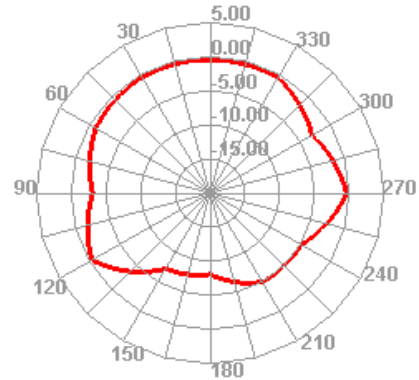
5500.000MHz H



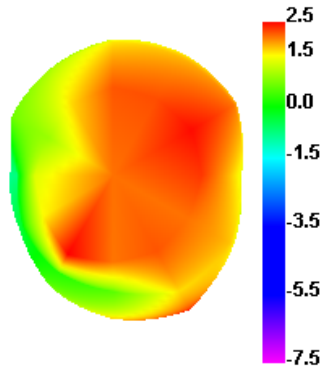
5500.000MHz E1



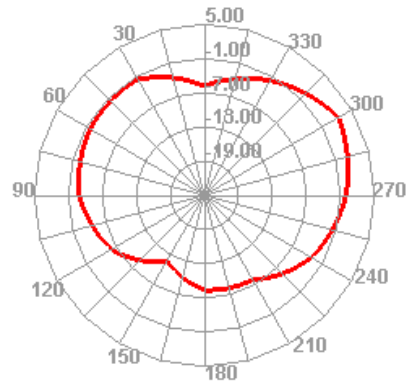
5500.000MHz E2



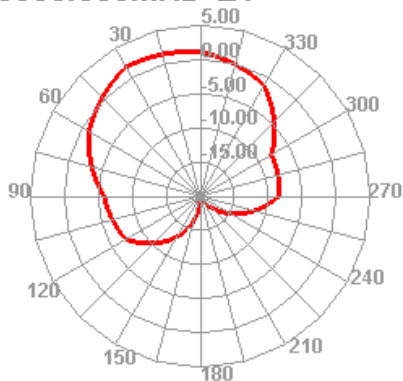
5850.000MHz



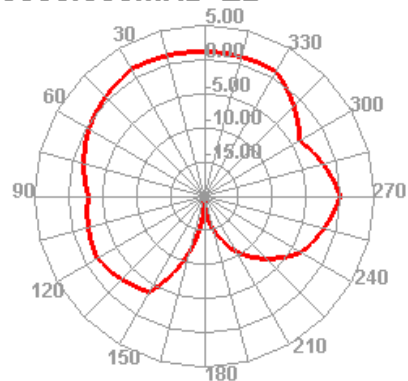
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



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标 记	修 改 内 容	日 期													

备注:

- 标注“*”为重点尺寸, 未标公差尺寸按照±0.15检测
- 未标注尺寸请依图纸。
- 符合ROHS2.0无卤

深圳市连兴创电子科技有限公司									
第三视角 0~3 ±0.05 3~50 ±0.03 50~80 ±0.10 80~90 ±0.12 90~100 ±0.15 公差 0.03 0.03 0.02 0.02 0.05		项目名称 XH240035-1009-F1E1		日期 2024-12-31					
产品规格 00~00 ±0.10 00~00 ±0.12 00~00 ±0.15		产品名称 L018		审核 设计		日期 2024-12-31			
材料 PVC		产品料号 L018		批准 设计		日期 2024-12-31			
单位 个		比例 1:1		版本 A.1					

NO.	DESCRIPTION	MATERIAL	REMARKS	QTY
1	端子	PVC		
2	线材	PVC		
3	线材	PVC		
4	线材	PVC		

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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

8 Conclusion

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 !

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