

SPECIFICATION FOR APPROVAL

承認書

Customer Name	美芯
Product name	WIFI 双频天线//YY-MX01007-A.0/rd-60 专用/同轴线长 45 ±3MM/带一代端子 Dual-band WiFi Antenna // YY-MX01007-A.0/rd-60 Specialized // Coaxial cable length 45±3MM // Equipped with Generation 1 RF terminal
Product number	YY-MX01007-A0
Prepared By	Tony-Men
Checked By	
Approved By	
Apply Date	2026 年 1 月 17 日

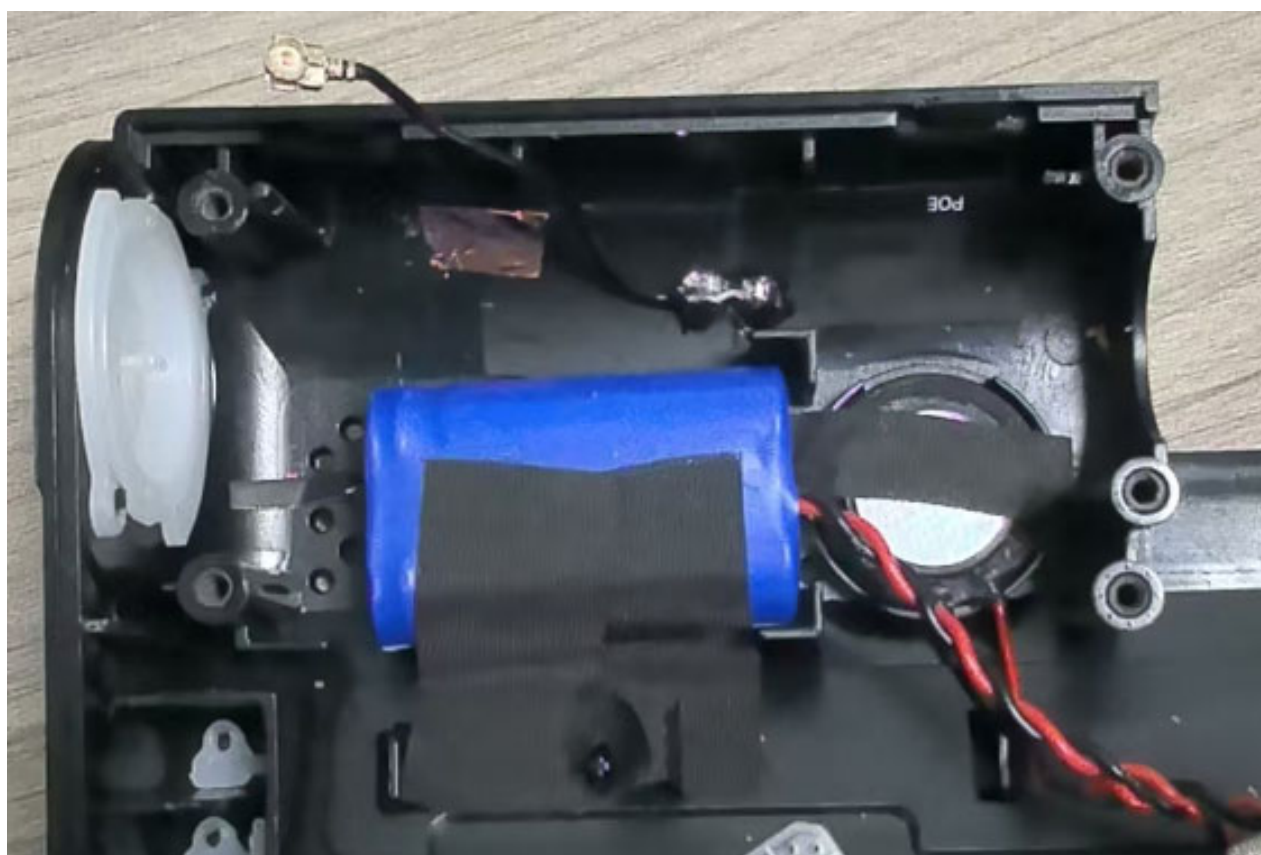
CUSTOMER SIGNATURE		
Prepared By	Checked By	Approved By
PLEASE RETURN TO US ONE COPY OF "SPECIFICATION FOR APPROVAL" WITH YOUR APPROVED SIGNATURES.		

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频率范围 Frequency range	2400 ~ 2500 MHz 5200 ~ 5800 MHz
增益 Gain	2.21 dBi/Max@2400 ~ 2500 MHz 3.35dBi/Max@5200 ~ 5800 MHz
驻波比系数 VSWR	2.0/Max@2400 ~ 2500 MHz 2.0/Max@5200 ~ 5800 MHz
输入阻抗 Input Impedance	50 ± 5 (Ω)
极化方式 Polarization	垂直极化 + 水平极化

天线位置 Antenna position



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Revision History

Date	Revision	Description of Changes
2026-1-17	RA	Measured with 2.4GHz/5.8GHZ antenna sample.

1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the 2.4GHz/5.8GHZ antenna 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 300 MHz through 6 GHz and an 18" diameter spherical quiet zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

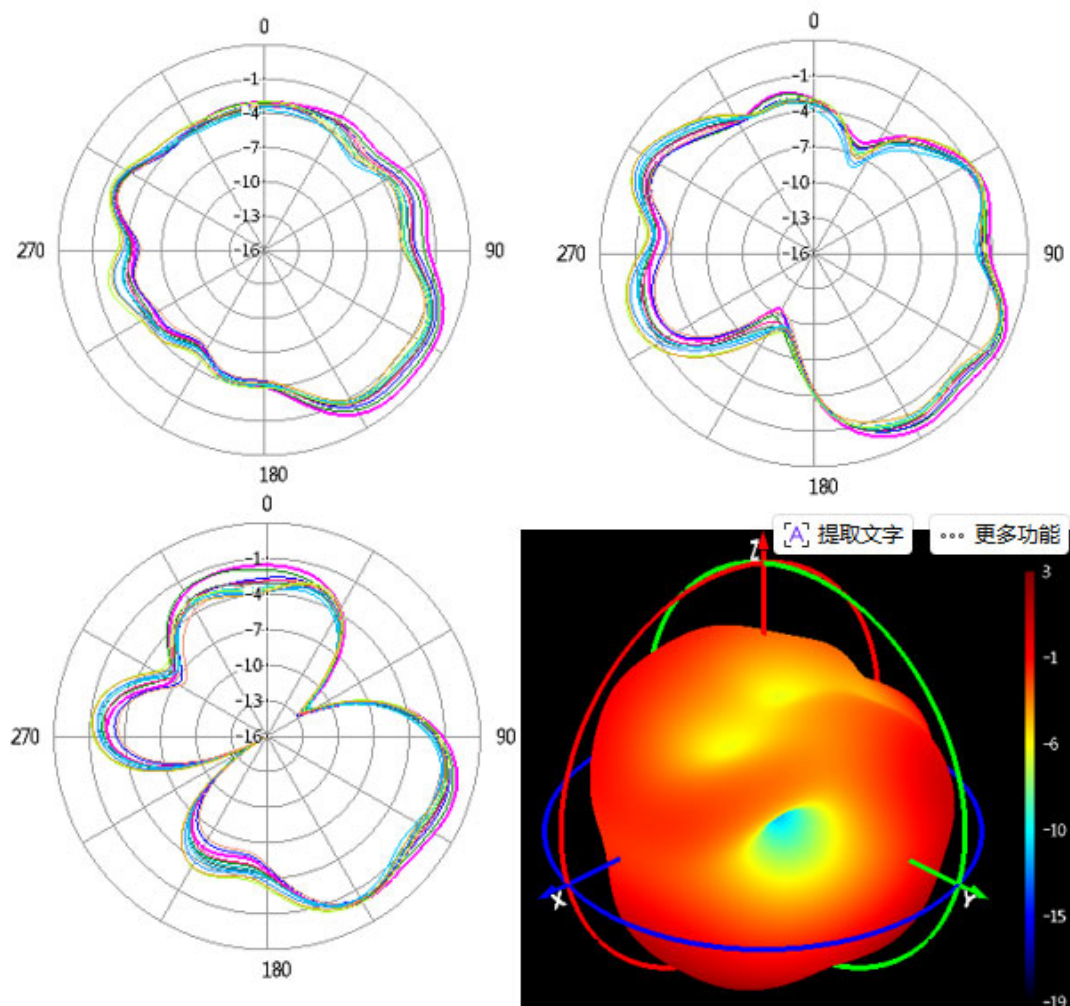
4.1.3 Matching Circuit Description

No changed..

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4.2Antenna – Radiation Pattern Test Data



Frequency 频率(MHz)	Gain 增益 (dBi)	Efficiency 效率(%)
2400	2.13	50.61
2410	2.05	50.24
2420	2.18	53.72
2430	1.63	47.5
2440	1.51	46.72
2450	1.85	49.75
2460	1.48	46.81
2470	1.31	52.75
2480	2.21	54.72
2490	1.5	51.14

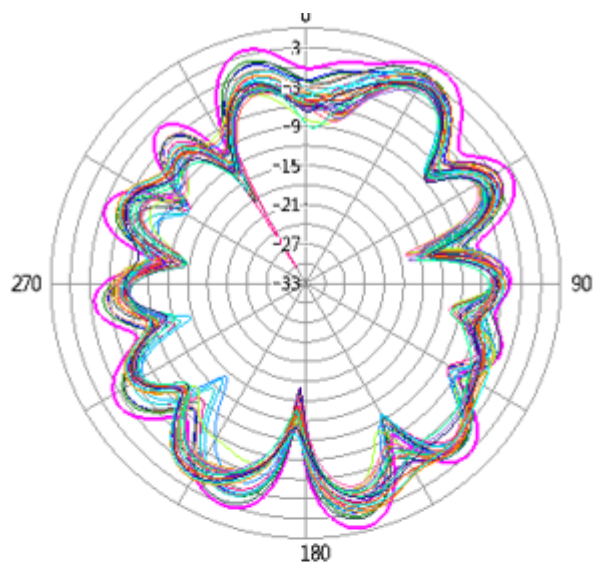
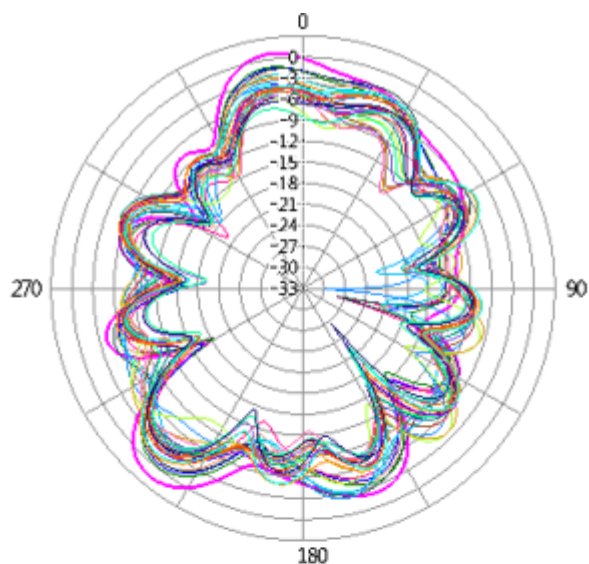
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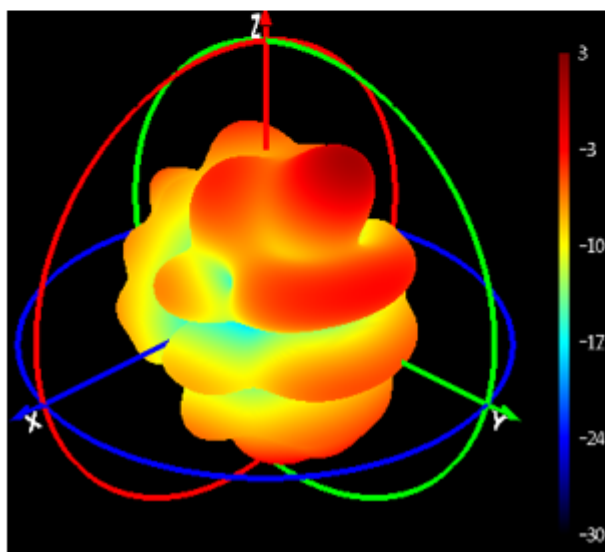
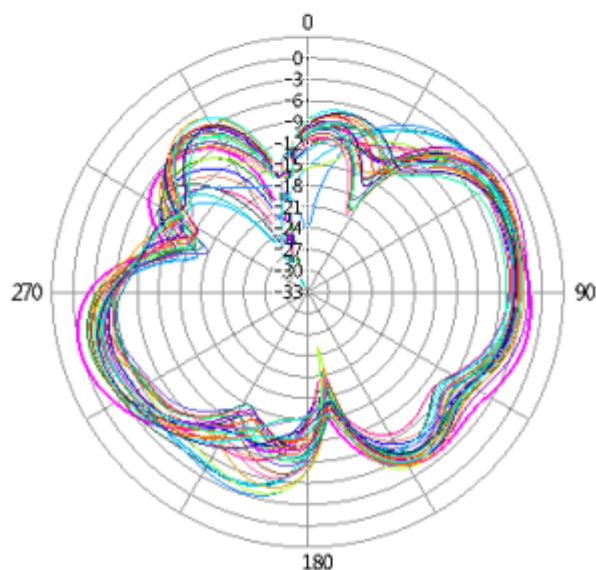
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2500	1.48	49.9
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... 更多功能



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Frequency 频率(MHz)	Gain 增益 (dBi)	Efficiency 效率(%)
5200	2.53	58.41
5240	2.27	57.24
5280	3.02	60.36
5320	2.12	56.5
5360	3.08	65.77
5400	2.24	57.13
5440	3.24	61.53
5480	2.7	58.91
5520	3.35	63.76
5560	2.21	57
5600	2.72	58.42
5640	1.81	49.62
5680	2.89	60.64
5720	2.07	56.48
5760	2.28	57.35
5800	3.19	61.34

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5 .Plots

VSWR

注：1 驻波系数的标准值

Note: 1. Standard value of standing wave coefficient

2 回损的标准值

2. Standard value of return loss



SWR	1.9	1.7	1.5	1.7	1.3
S11	-10.0	-10.9	-12.8	-10.1	-17.2

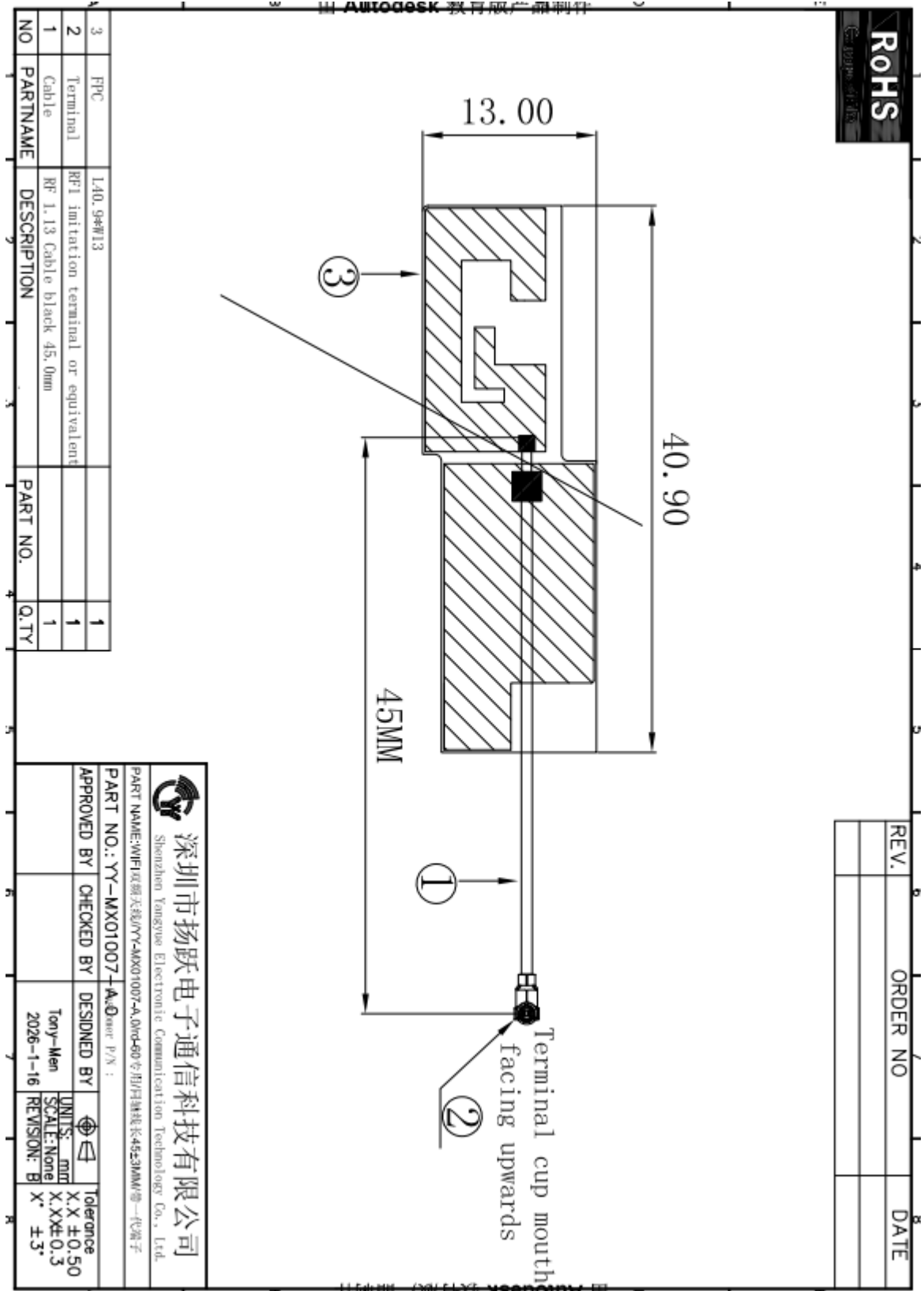
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6.Mechanical drawing



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7 Reliability tests

7.1 Test content

No	试验项目 Test item	试验方法 Test method	判定基准 Decision criteria
1	盐水喷雾试验 Salt spray test	把盐浓度 5%的溶液喷雾 24HR Spray a 5% salt solution for 24 hours	不能有变色, 歪 (变形) 脱落等的缺点 腐蚀面积不能过大 Can not have discoloration, distortion (deformation) fall off and other shortcomings of the corrosion area can not be too large

7.2 Test results

NO	样品数 Sample quantity	试验期间 Test duration	实验结果 Experimental result	备注 remarks
1	10	24H	OK	技术等级为 9 级 腐蚀<0.4mm Technical level is level 9 Corrosion<0.4mm

8 Conclusion

以上数据表明此 2.4GHz/5.8GHz 天线参数均已达标。性能以装机后的实际使用效果为准。

The above data indicates that the 2.4GHz/5.8GHz antenna parameters have all met the standards. The performance shall be based on the actual usage effect after installation.

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

Shenzhen Yangyue Electronic Communication Technology Co., Ltd, look forward to your confirmation, thank you for your cooperation!

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