

Shenzhen Anwei Wireless Technology Co., Ltd

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Longhua New District, Shenzhen, Guangdong Province

APPROVAL SHEET

Customer		Specs	MC013
Part Number	AW006-MC013-021-A0	Frequency Band	2.4G-BT
Color	BLACK	Edition	REV:A0
Salesperson	XIE	Design	宋兵伟
Structure	QIN	Confirm	
Date	2024.12.25	Signing Date	
Customer confirmation:			
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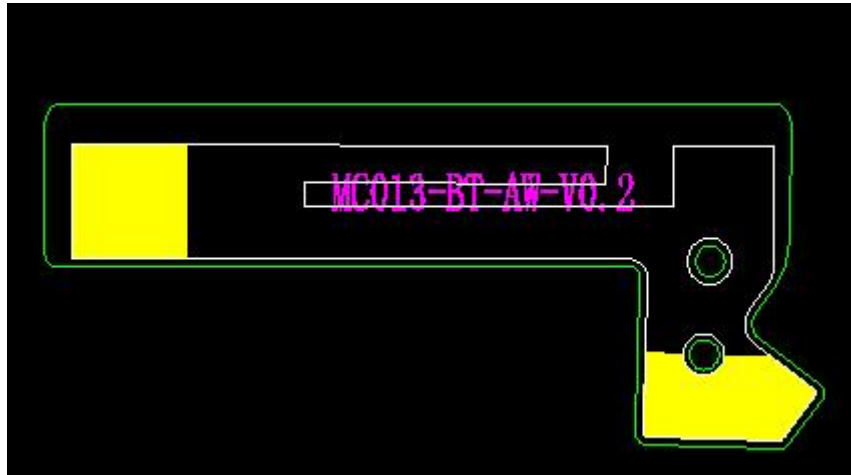
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一、Product Specifications

The report mainly provides the parameter test of MC013 antenna performance. The MC013 antenna is a BT antenna.



1. Specification standard 2400-2480mhz, resonant in this band.

2. Antenna matching circuit

Antenna structure: FPC

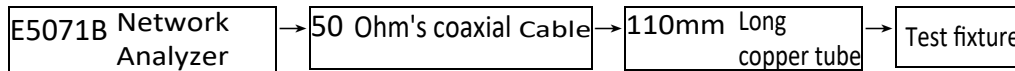
Matching circuit (Matching circuit)

(The accuracy of the matching value is recommended to be higher)

三、Testing of parameters

1.

VSWR The test devices are in sequence connected to:



Treatment of test instruments:

Use a hard cable to lead out the SMA-J connector from the antenna 50 ohm test point on the mobile phone PCB, connect it to the copper tube with a choke, and then connect to other devices in turn.

2. Test results.

Everything is fine.

四、 Setup for a source test

The source test devices are connected in sequence as:



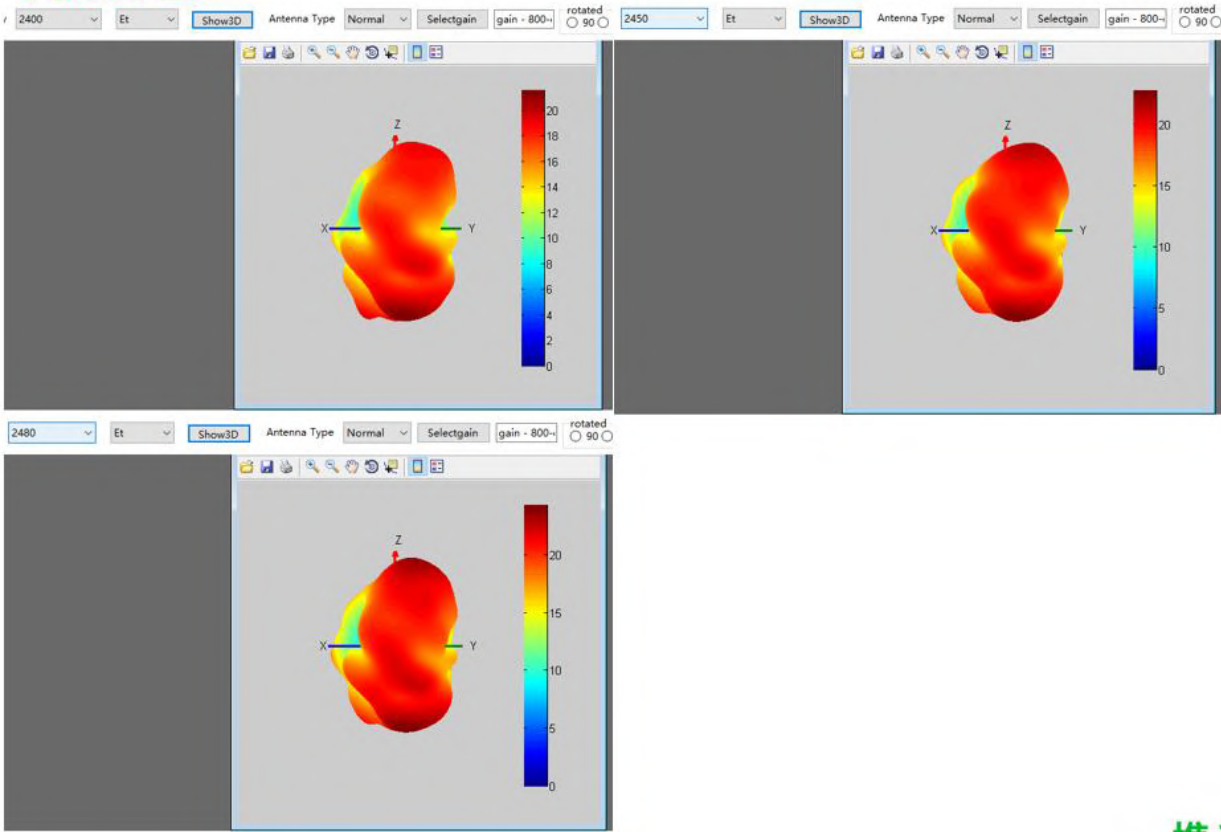
1. The venue for the test

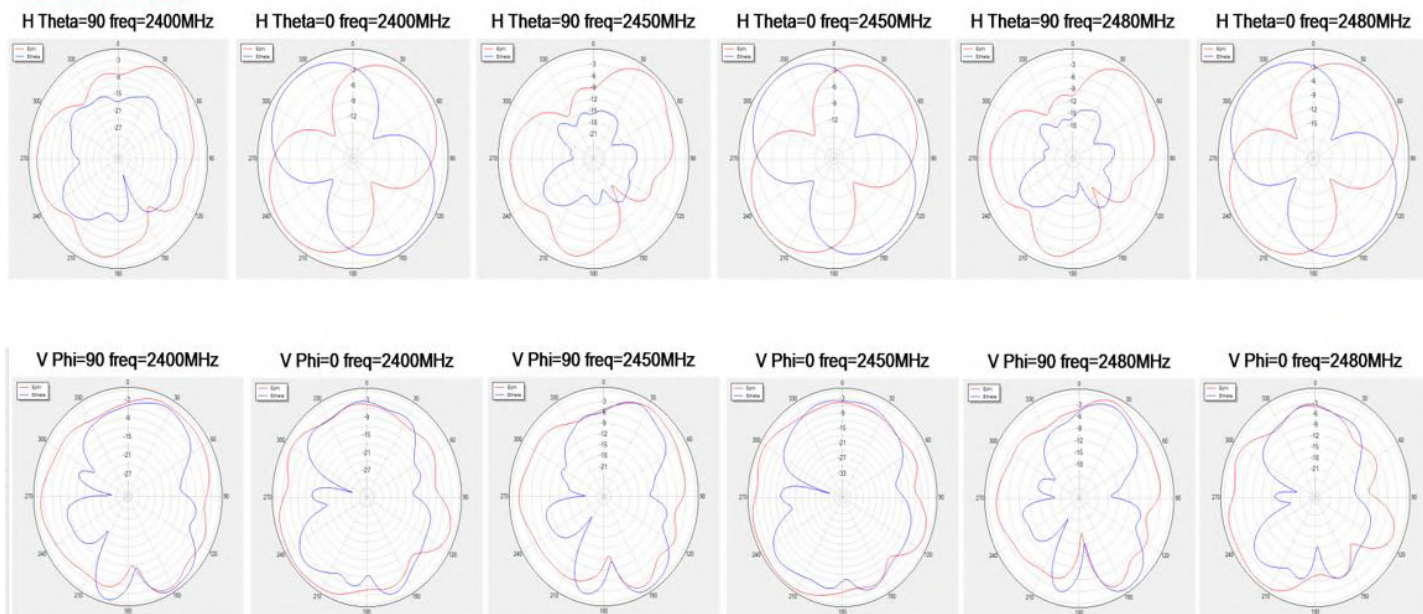
AW microwave anechoic chamber: the test frequency range is 400MHz to 6GHz, the quiet area is 40cm circumference, the reflectivity is less than -90dB.

2. The results of the test.

The following is the MC013 project BT antenna test results:

Gain&Efficiency			
frequency (MHz)	gain (dBi)	efficiency (dBi)	efficiency (%)
2400	-0.11	-6.04	24.90
2410	-0.03	-5.81	26.26
2420	0.17	-5.49	28.27
2430	-0.07	-5.82	26.16
2440	0.07	-5.71	26.86
2450	0.02	-5.71	26.86
2460	0.43	-5.4	28.82
2470	-0.06	-5.79	26.37
2480	-0.14	-5.69	26.98





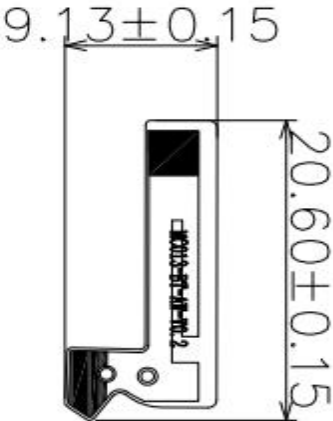
五、Recommendations and conclusions

This report is measured based on the performance of the antenna electrical equipment provided by the customer, and your company is requested to review it carefully.

六、Structure drawings



丝印白色亮光字码



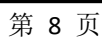
半切模整版出货

技术要求: I对半材料

- 1. 绿色为外形轮廓,白色填充部位为电气走线覆铜;
- 2. 基材材质为聚酰亚胺或聚酰亚胺薄膜;
- 3. 图示为正面,反面背胶,此PCB背胶3600LSI(94711E);
- 4. 打*为公模尺寸及重点尺寸,铜箔线路所有尺寸公差不得超过±0.05,模具冲出外型尺寸公差不得超过±0.1,未注尺寸以图形为准;
- 5. 基材25 μm,铜箔18 μm,微蚀1.5 μm,镀金0.025 μm,0.075 μm;
- 6. 走线面除焊盘外其它区域表面无亮黑色;
- 7. 可靠性测试:盐水喷雾试验(48h/1度皮膜测试(100个循环)\耐弯折测试(50个循环)\恒湿恒湿试验\冷热冲击试验(12个循环)\附着力测试\金手指引脚处折性测试;
- 8. 出现下列问题均视为不合格:起翘分层\露铜\折痕、折裂\边缘毛边\字符不清;
- 9. 包装应防潮、防潮、表面干净,完好无破损。

深圳市安威无线科技有限公司

第三视角			项目名称	M2013	日期		2025-01-06				
0°~10°	±0.05	⊕			0.03	设计					
10°~30°	±0.10	○	0.03	产品名称	审核	MD	QTL				
30°~50°	±0.15	◎	0.02			PC	SR				
50°~80°	±0.20	⊥	0.02	产品料号	批准						
角度	±1°	∇	0.05								
第1页,共1页				材质	FR4	单位	mm	比例	FIT	版本	AI



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