

Shenzhen Aihui Technology Co., Ltd.

Antenna Sample Confirmation From

Vendor Name	ShenZhen Aihui Technology Co., Ltd
Customer Name	LiWan
Sample Name	Calendar Device
Part Number	Calendar Device
Specification	wire length: 100mm 1rd Generation Terminal Right exit silk Printing: 514K-AH

Address: 3rd Floor, Building 2, Qiyu Industrial Park, No.17 Sanwei
Industrial Road, Sanwei Community, Hangcheng Subdistrict, Bao'an
District, ShenzhenTEL: 0755-23203435 FAX: 0755-23203435

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Test by: ShenZhen Aihui Technology Co., Ltd

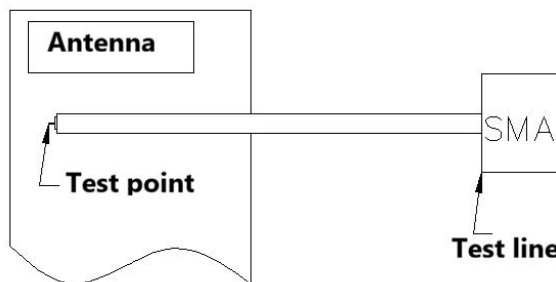
Test by: ShenZhen Aihui Technology Co. , Ltd			
Material	FPC		
Antenna Type	Monopole Type	Polarization mode	Linear
Band	2.4G/5.8GWIFI	VSWR	≤2
Power	Max: 2W	Impedance	50 Ω
dBi	≥1dBi		
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable		
Antenna Description:: 1. Need to change the motherboard to match: no ● Test voltage: 3.6V, check the antenna contact is good before testing. ● The RF cable of the integrated tester is kept in a natural state and can not be curled. Specification:test the specified power level, all indicators must conform to the specifications.			

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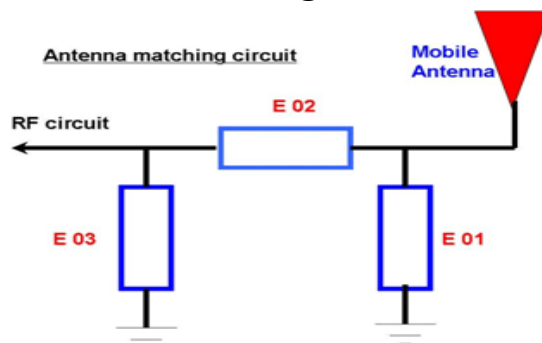
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1、 Purpose of the test fixture: To measure the antenna's passive parameters as accurately as possible.

Construction method: The mobile phone test fixture utilizes a 50-ohm coaxial cable, with one end connected to the test point at the rear end of the matching circuit (front end of the RF test port) on the mobile phone's motherboard, and the other end connected to an SMA connector. The schematic diagram is shown below.:



2、 Antenna Matching Circuit



Modify

E01	E02	E03
No	No	No

Note: No matching modifications required.

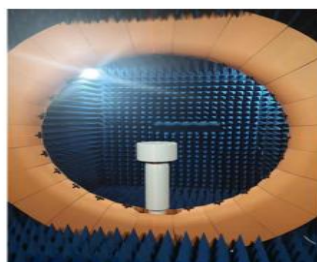
3. S11test

S11Test Method Description: Test Equipment: Network Analyzer (E5071C). Test Procedure: Use a 50-ohm cable to connect from the instrument's test port; after calibrating with a calibration standard, connect it to the SMA connector of the mobile device adapter, and record the echo loss and standing wave ratio at the

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5 Antenna passive test data

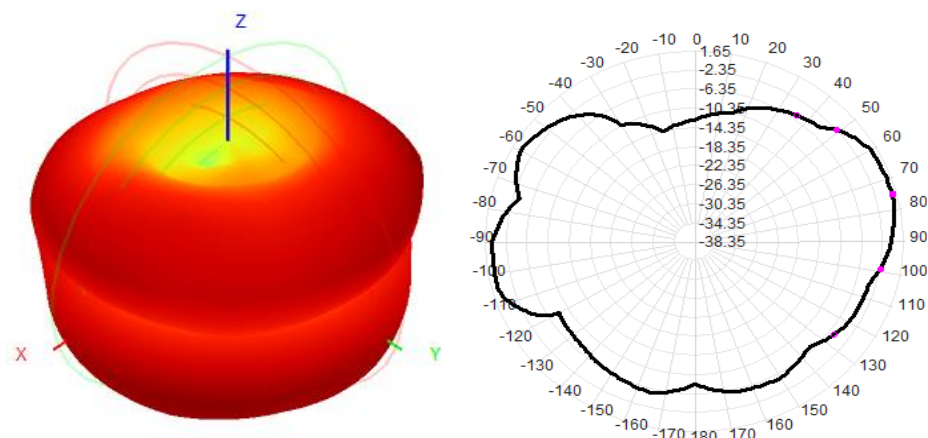
Test data:

WIFI 2.4G

Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	55.25	1.25
2410	55.41	1.47
2420	57.65	1.35
2430	59.65	1.44
2440	51.41	1.54
2450	50.54	1.52
2460	52.63	1.44
2470	54.15	1.65
2480	59.64	1.23

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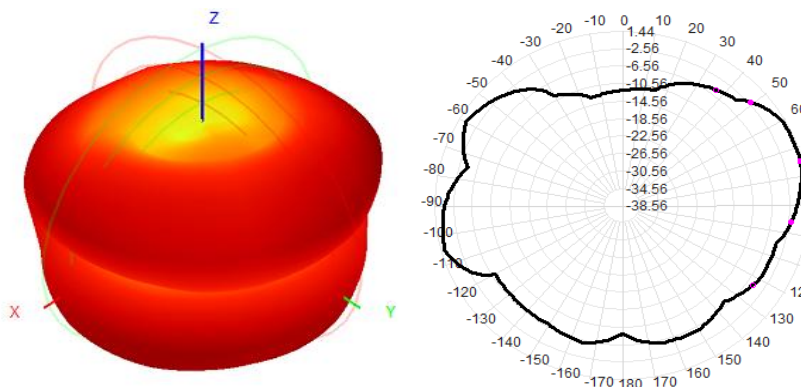
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Test data:		
WIFI 5.8G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
5000	58.27	1.44
5100	56.41	1.32
5200	55.63	1.17
5300	52.52	1.35
5400	57.77	1.27
5500	55.46	1.41
5600	54.29	1.09
5700	53.51	1.35
5800	56.68	1.19
5850	51.34	1.26

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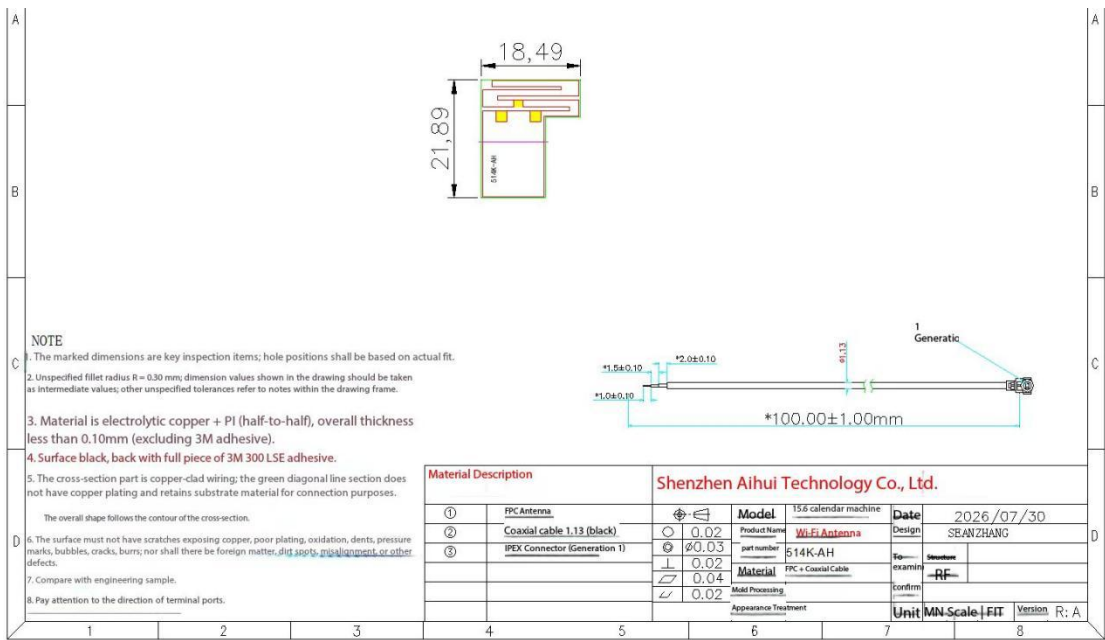


6. ANTENNA MASS-PRODUCTION SPECIFICATIONS: DURING ANTENNA MASS PRODUCTION, THE STANDING WAVE RATIO (SWR) SHALL BE USED AS THE MASS-PRODUCTION TESTING CRITERION.

BASED ON THE SPECIFIC CHARACTERISTICS OF EACH PROJECT, THE FOLLOWING STANDARDS ARE PROVIDED:

frequency	Mass Production Standards
2400MHZ-2500MHZ	VSWR (Mass-production performance) <VSWR(Acknowledge performance)+0.5
5100MHZ-5850MHZ	VSWR (Mass-production performance) <VSWR(Acknowledge performance)+0.5

7.structural drawings



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