



**BaiKe- BK652 WIFI2.4G antenna acknowledgment
Product Specifications for Approval**

The Part number: WF2396B-A100R-A

The customer name: BaiKe Models: BK652

Antenna band: BT

Version: R-A Date: 2023-4-18

Shenzhen ShunDaCheng Technology Co.,Ltd.			
MD:		RF:	
Audit:		Approval:	
Customer Confirmation			
Customer audit:		Customer approval:	

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1. Project information and Electrical Specification

*Those specifications were specially defined for **BaiKe-BK652** , **BT**, and all characteristics were measured under the model's handset testing jig .*

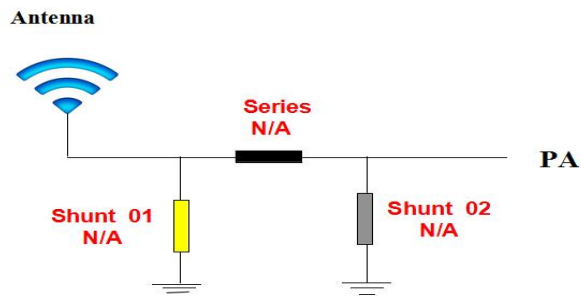
1-1 Antenna picture



1-2 Electrical parameter:

Electrical parameter	
(Frequency range)	2402-2480Mhz
Polarization mode	Horizontal and vertical polarization
Standing wave ratio (VSWR)	1.5≤
impedance(Impedance)	50Ω±5
Passive test standard	BT efficiency greater than 40
Test equipment	Agilent(E5071B); Agilent (8753D)
Instrument calibration cycle	One quarter
Antenna material	FPC+ coaxial line
Debugging mode	PIFA

1-3 Impedance matching



Antenna original match without change

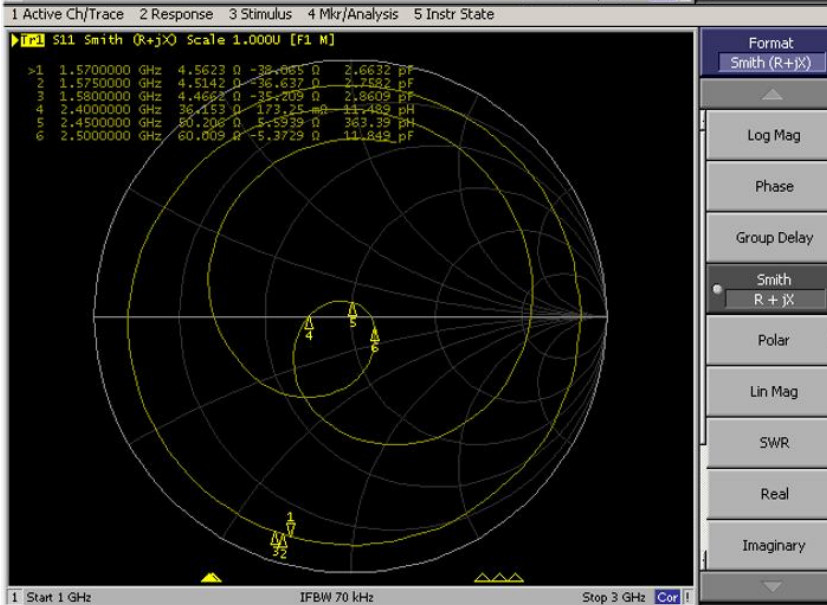
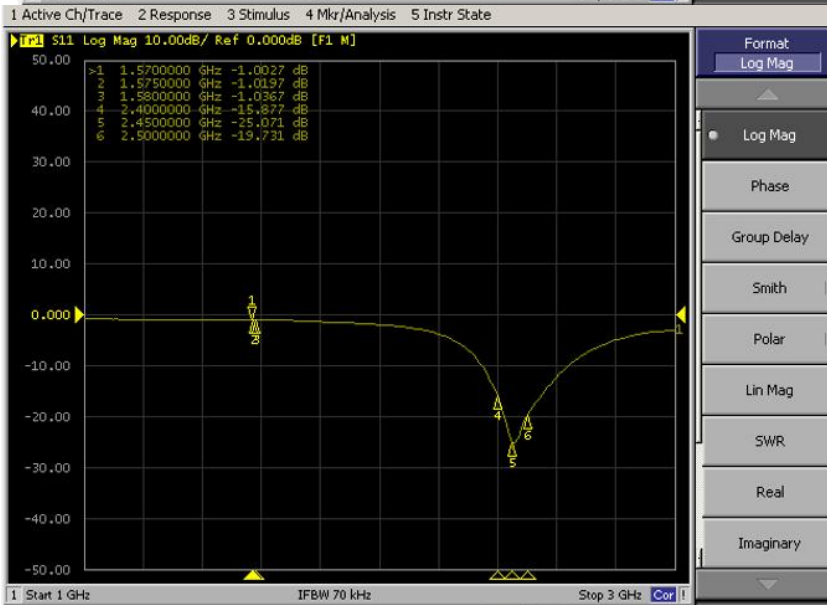
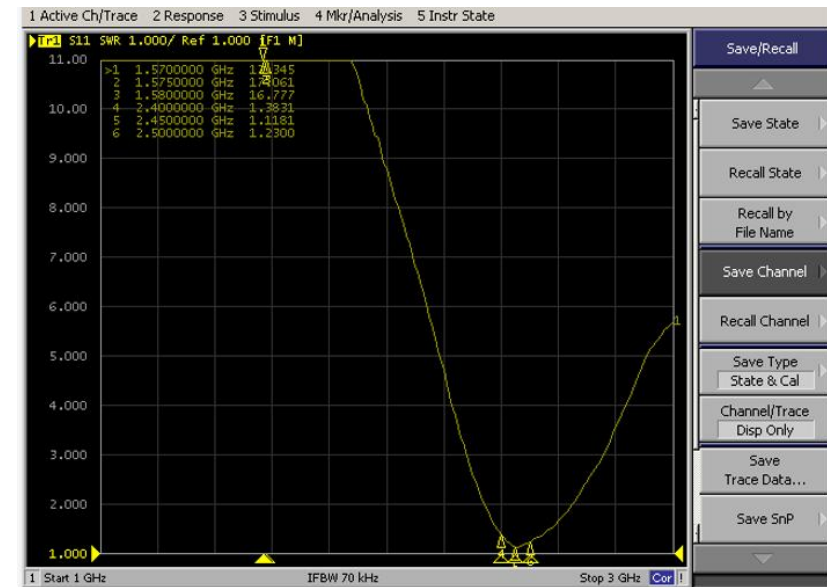
2.VSWR

Measuring Method:

1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm.

VSWR parameter values

frequency (MHZ)	2400	2450	2500
Standing wave	1.24	1.33	1.47



3. **Efficiency and Gain***measuring and test instruments:

Microwave Darkroom, Agilent Network Analyzer, Agilent Spectrum Analyzer, 8960 Integrated Tester, Standard Antenna

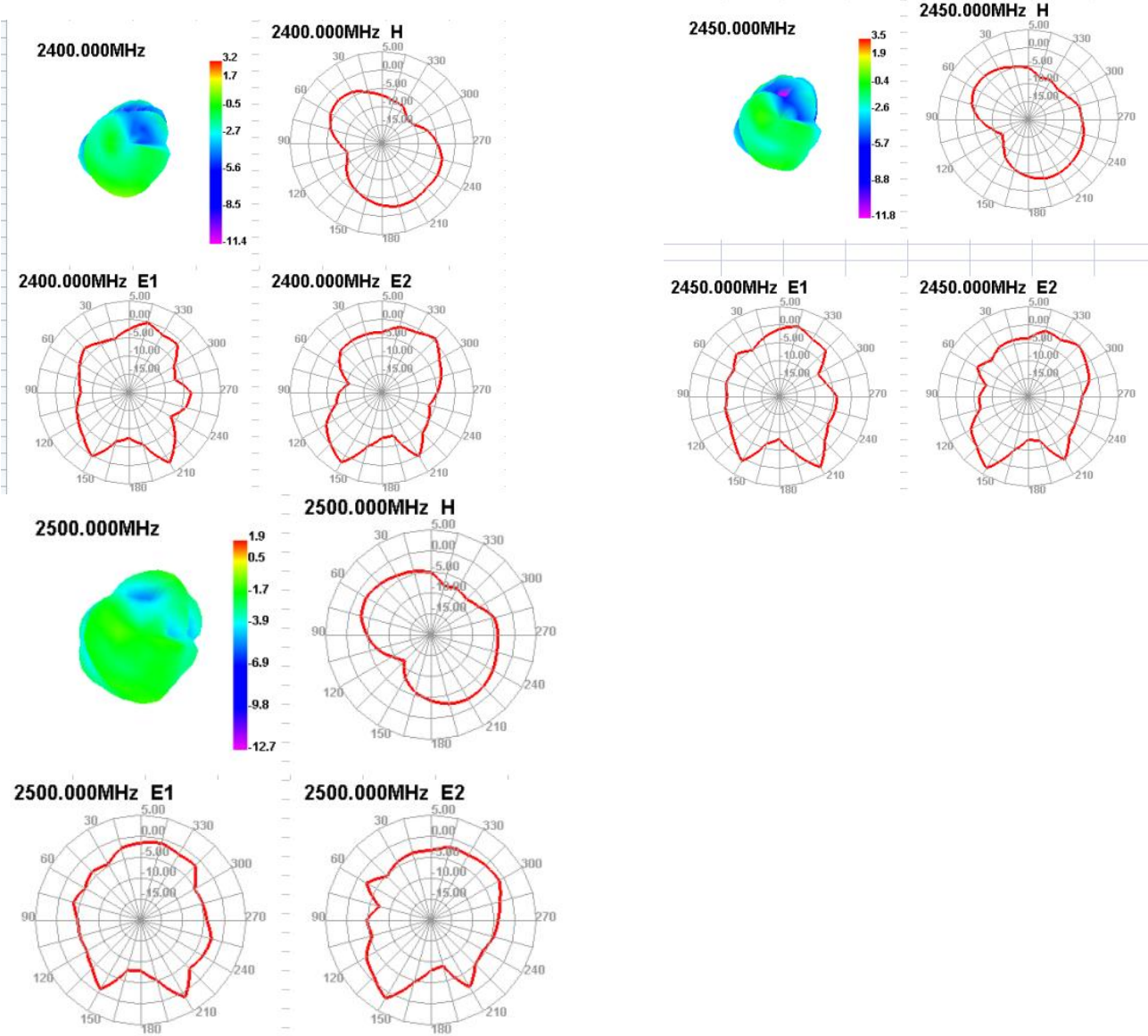
* Test method:

The equipment is fixed at the center of the turntable in the center of the turntable, with the center of the horn antenna on the same horizontal line.

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Efficiency/Gain-BT

Passive Test For 2.4G									
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenuat Hor
2400	46.9	-3.29	3.16	1.01	22.318	24.585	3.16	-11.43	49.25
2450	49.71	-3.04	3.46	1.31	22.77	26.939	3.46	-11.81	49.38
2500	46.11	-3.36	1.93	-0.22	23.105	23.007	1.93	-12.73	49.46



4.The production index

Antenna production, the standing wave ratio as a production test standards.

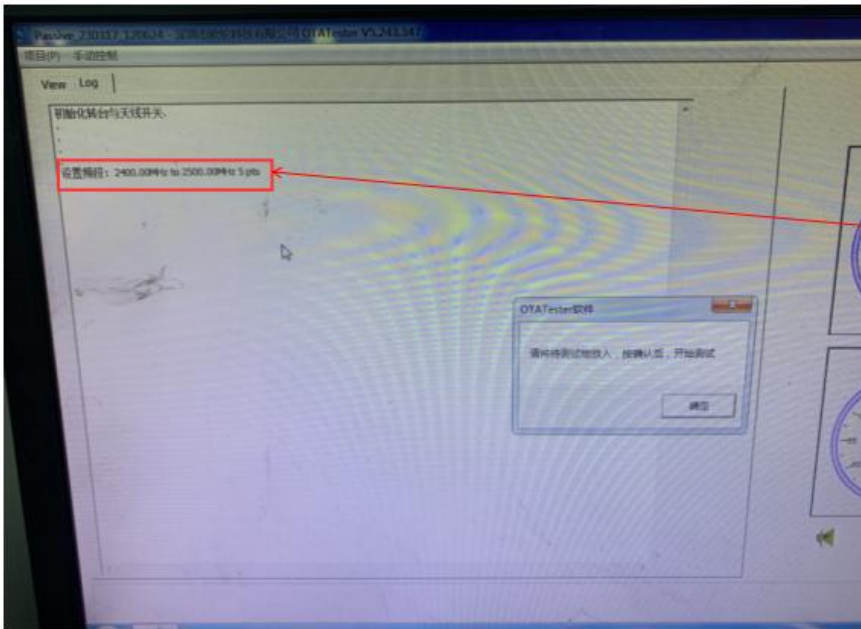
According to the difference between the project itself, given the following criteria:

frequency	Production standards
BT	VSWR (Production products) <VSWR(Design samples)+/-0.5

4. Operation flow chart

Debugging equipment





**Set the frequency
before testing**

