**Antenna specification** 

## **Antenna Sample Confirmation From**

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name	Suo da				
Sample name	HDV265K				
mode l					
Sample size	Wire lengt	h: 60mm 3rc	d genera	tion ter	minals
Inspection	Performance test	Visual inspection	Structure	In the news	Test results
Notes					
				Business	
Quality Audit		Project Audit		confirm	
				ation	
The following is to be completed by the client					
Customer					
feedback					

Customer
-i
signature/seal

# **Antenna Test Report**

Test Unit: Shenzhen Aihui Technology Co., Ltd.			
Materials	FPC coaxial line		
Antenna type	MonopoleType	Polarization mode	Linear
Application			
scenario			
Working band	2.4G-WIFI	VSWR	≤2
Power	Max: 2W	Impedance	50Ω

dBi	
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable

#### **Antenna Description::**

- 1. Grounding processing and picture description: no
- 2. 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.

- 1. Project Image
- 2. Test Fixture
- 3. Antenna matching circuit
- 4.S11 test
- 5. Antenna passive efficiency and gain
- 6. Darkroom test equipment and data
- 7. Schematic diagram of antenna assembly
- 8. Antenna environment handling
- 9. Antenna mass production index
- 10.Structural drawing

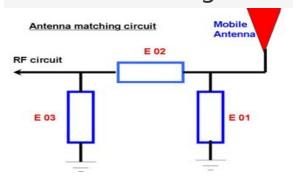
### 1.Project Image

The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

### 2.Test Fixture

Objective: to test the passive parameters of antenna as accurately as possible. Making Method: the handset is made of a 50 ohm coaxial cable, one end of which is connected to the test point of the back end of the matching circuit of the handset motherboard (front end of the RF test hole), and the other end is connected to the SMA joint. The diagram is as follows:

### 3. Antenna matching circuit



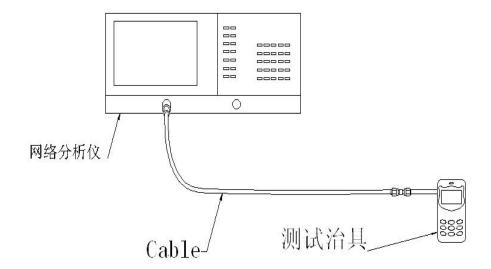
#### Modify

E01	E02	E03
No	No	No

Note: The match is unmodified.

### 4.S11 test

4.0 4.0 s11 test method description of test equipment: Network Analyzer (E5071C) test method: a 50 ohm CABLE is used to export from the instrument test port. The SMA connector for connecting the handset is calibrated using a calibration piece, record the echo loss and standing wave ratio corresponding to the relevant frequency points. The test schematic is as follows:



5. Darkroom test equipment and data

5.1.Test Equipment

Test system: shielded darkroom

The temperature was 22 ° C ± 3 ° C and the

humidity was 50% ± 15%

Test equipment: when testing passive data, use the Network analyzer AGILENTE5071C to test active data, use the omnibus CMW500



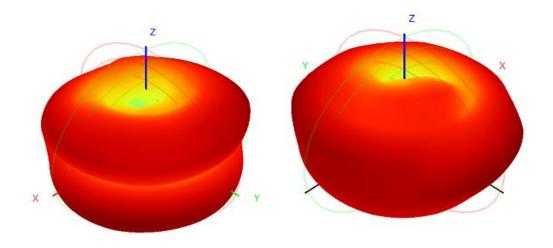


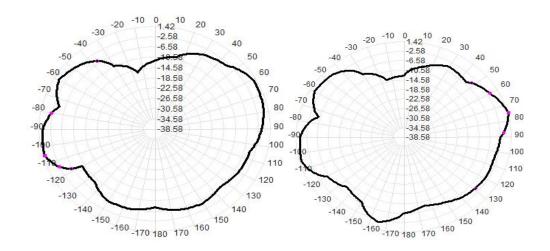




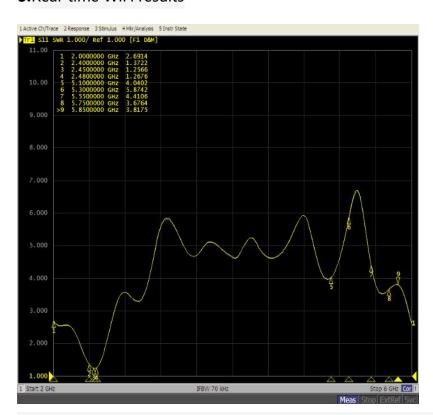
#### 5.2. Passive antenna test data

则试数据:			
WIFI 2.4G			
Freq(MHz)	Efficiency (%)	Gain (dBi)	
2400	50.21	1.22	
2410	54.33	1.30	
2420	52.22	1.42	
2430	54.63	1.22	
2440	49.85	1.31	
2450	48.65	1.25	
2460	51.22	1.09	
2470	51.36	1.01	
2480	52.14	0.58	





#### 6. Real-time WiFi results



7. Schematic diagram of antenna assembly



### 8. Antenna environment handling

Prototype environmental processing

# 9.Antenna mass production index

When the antenna is mass-produced, the SWR is taken as the mass-produced test standard. Based on the differences of the project itself, the following criteria are given:

Frequency	Standard for volume production
2400MHZ -2500MHZ	vswr (Massproduction performance)
	<vswr(recognition of="" p="" performance)+0.5<=""></vswr(recognition>

### 10. Structural drawings

