



# Specification Recognition Certificate

## Approval Sheet

**customer name** \_\_\_\_\_ Huilian \_\_\_\_\_

(Customer Name)

**product name** \_\_\_\_\_ Y101 (2.4 GHz Wi-Fi Antenna) \_\_\_\_\_

(Specification)

**Customer Material Number** \_\_\_\_\_

(Customer P/N)

**Product Material Number** \_\_\_\_\_

(O/I)

**Sample submission date:** 2026-5-11 \_\_\_\_\_ 2026-  
5-11 \_\_\_\_\_

(Date)

|                    |             |        |  |
|--------------------|-------------|--------|--|
| frequency<br>range | 2.4GWIFI    |        |  |
| edition            | A           |        |  |
| radio<br>frequency | Hu Jiaming  | affirm |  |
| structure          | Yang Guojun |        |  |

**Shenzhen Deshiqin Technology Co., Ltd.**

1 10

Dosking MicroElectronics Co.,Ltd

Address: Room 403, West Block, Building 2 (Ganghongji Tower), Private Enterprise Science Park, Xili University Town, Nanshan District, Shenzhen

TEL:0755-88602767 FAX:0755-82793883

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|                              |  |
|------------------------------|--|
| Customer<br>Confirmatio<br>n |  |
| date                         |  |

## catalogue

### 1. Project Images

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### 4. S11: Testing Electrical Performance

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#### 4.2 S11 Parameter Images

### 5. Power and Sensitivity Testing

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## 1. Project images (for reference only)

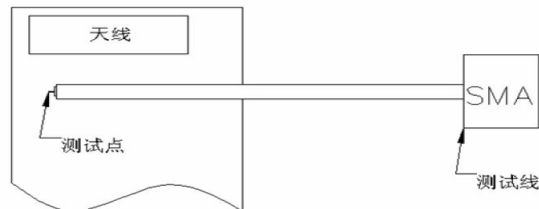


2.4G Wi-Fi Antenna

## 2. Passive Testing

Objective: To measure the antenna's passive parameters as accurately as possible.

Method: This fixture utilizes a 50-ohm coaxial cable, with one end connected to the test point at the rear end of the matching circuit on the mobile phone's motherboard (prior to the RF test port) and the other end connected to an SMA connector. The detailed configuration is shown in the figure below:



The table below presents the performance test parameters for the Y101 mass-production antenna:

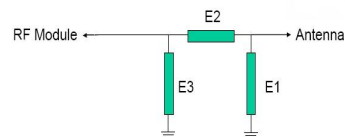
| 2.4G-WIFI Antenna |                    |      |                 |      |
|-------------------|--------------------|------|-----------------|------|
|                   | frequency<br>(MHz) | VSWR | frequency (MHz) | VSWR |

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| frequency range | transmitting terminal |            | receiving terminal |            |
|-----------------|-----------------------|------------|--------------------|------------|
| 2.4G WIFI       | 2400-2550             | $\leq 3.0$ | 2400-2550          | $\leq 3.0$ |

### 3. Matching Circuit

**Main Antenna (Match unchanged)**



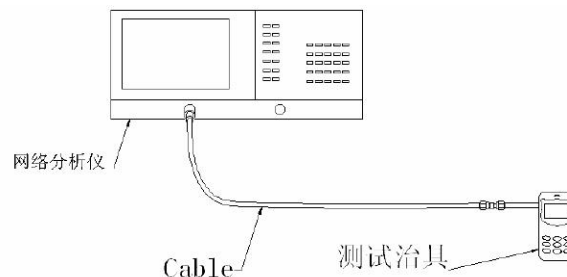
| Element  | Match Value |
|----------|-------------|
| E1(0201) |             |
| E2(0201) | 0           |
| E3(0201) |             |

### 4. S11 Test

#### 4.1 Specifications and Standards for the S11 Testing Method Description

The VSWR test setup is connected in the following sequence: HDS10K753ES network analyzer → 50-ohm coaxial cable → 120-mm copper tube → test fixture.

Treatment of the test fixture: From the 50-ohm test point on the mobile phone PCB's antenna, connect a rigid cable to an SMA-J connector, which is then linked to a copper tube fitted with a choke coil, and subsequently connected to other components in sequence.



Test Schematic

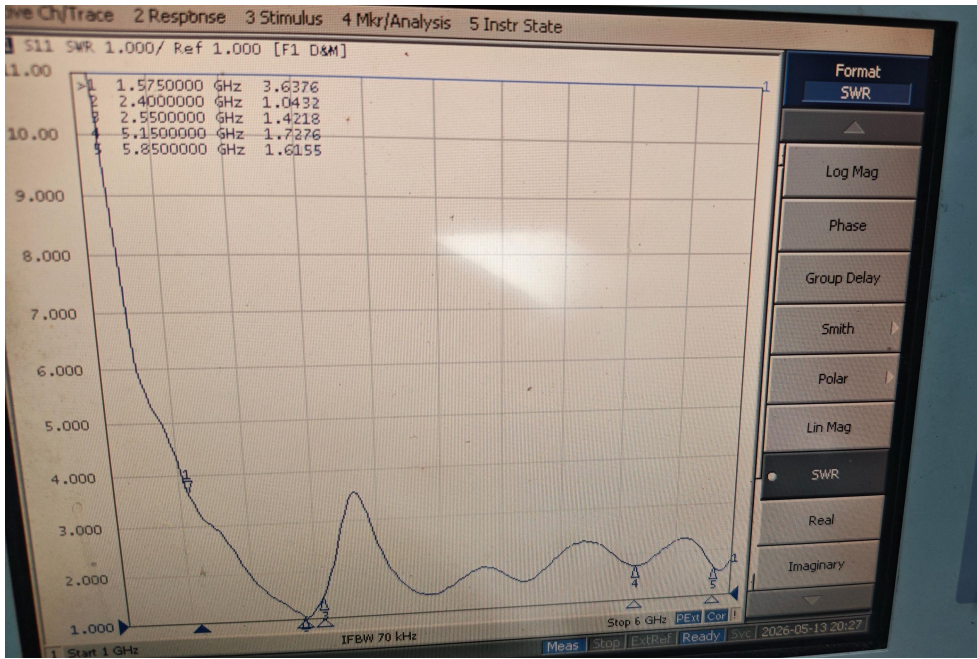
Shenzhen Deshiqin Technology Co., Ltd.

Dosking MicroElectronics Co.,Ltd

Address: Room 403, West Building, Building 2, Private Enterprise Science Park, Xili University Town, Nanshan District, Shenzhen

TEL:0755-88602767 FAX:0755-82793883

4.2 S11



2.4 Passive Efficiency/Gain

| Passive Test For 2400-2500 |          |            |
|----------------------------|----------|------------|
| Freq (MHz)                 | Effi (%) | Gain (dBi) |
| 2400                       | 32.75    | -0.15      |
| 2410                       | 32.32    | -0.15      |
| 2420                       | 32.79    | -0.06      |
| 2430                       | 32.59    | -0.16      |
| 2440                       | 32.48    | -0.08      |
| 2450                       | 32.98    | -0.03      |
| 2460                       | 33.05    | -0.05      |
| 2470                       | 31.99    | -0.14      |
| 2480                       | 30.83    | -0.37      |
| 2490                       | 29.57    | -0.55      |
| 2500                       | 29.53    | -0.59      |

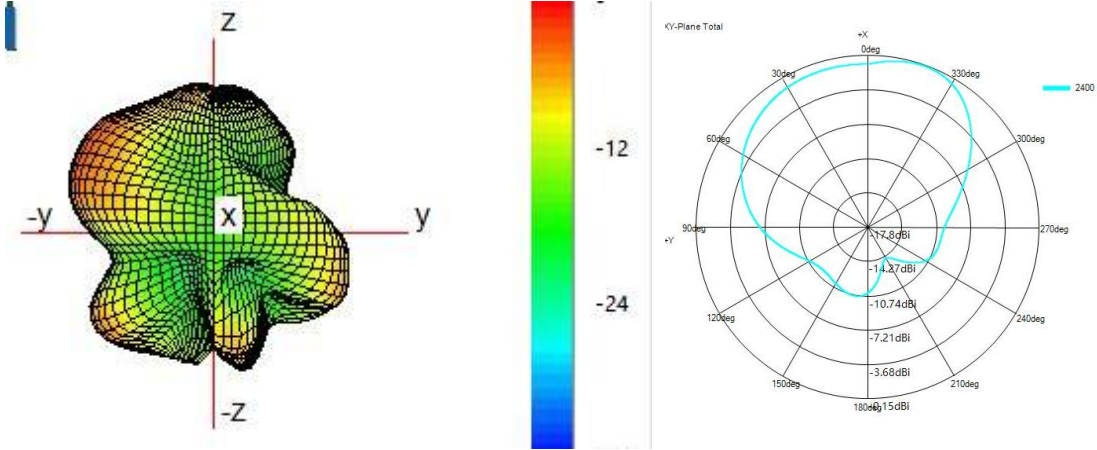
|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

5. Power and Sensitivity Testing

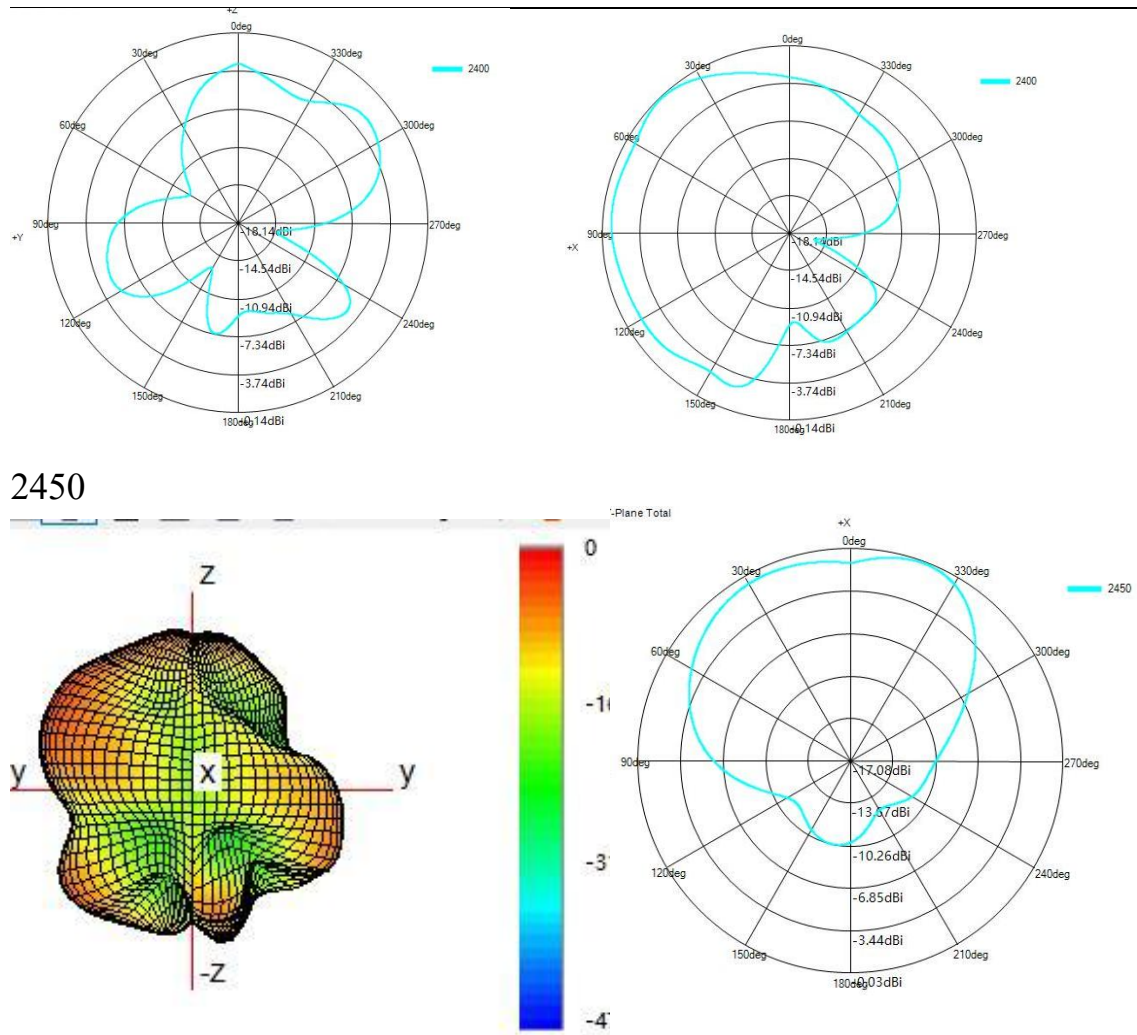
5.1 test data

| BAND     | CHANNEL | TRP   | TIS    |
|----------|---------|-------|--------|
| WIFI 11B | 1       | 12.93 | -81.18 |
|          | 7       | 13.07 | -81.38 |
|          | 13      | 13.17 | -81.86 |
| WIFI 11G | 1       | 10.47 | -68.19 |
|          | 7       | 11.34 | -68.81 |
|          | 13      | 10.62 | -68.78 |
| WIFI 11N | 1       | 9.49  | -68.23 |
|          | 7       | 10.43 | -68.89 |
|          | 13      | 10.13 | -68.66 |

2.4WIFI2D/3D,Phi  
2400



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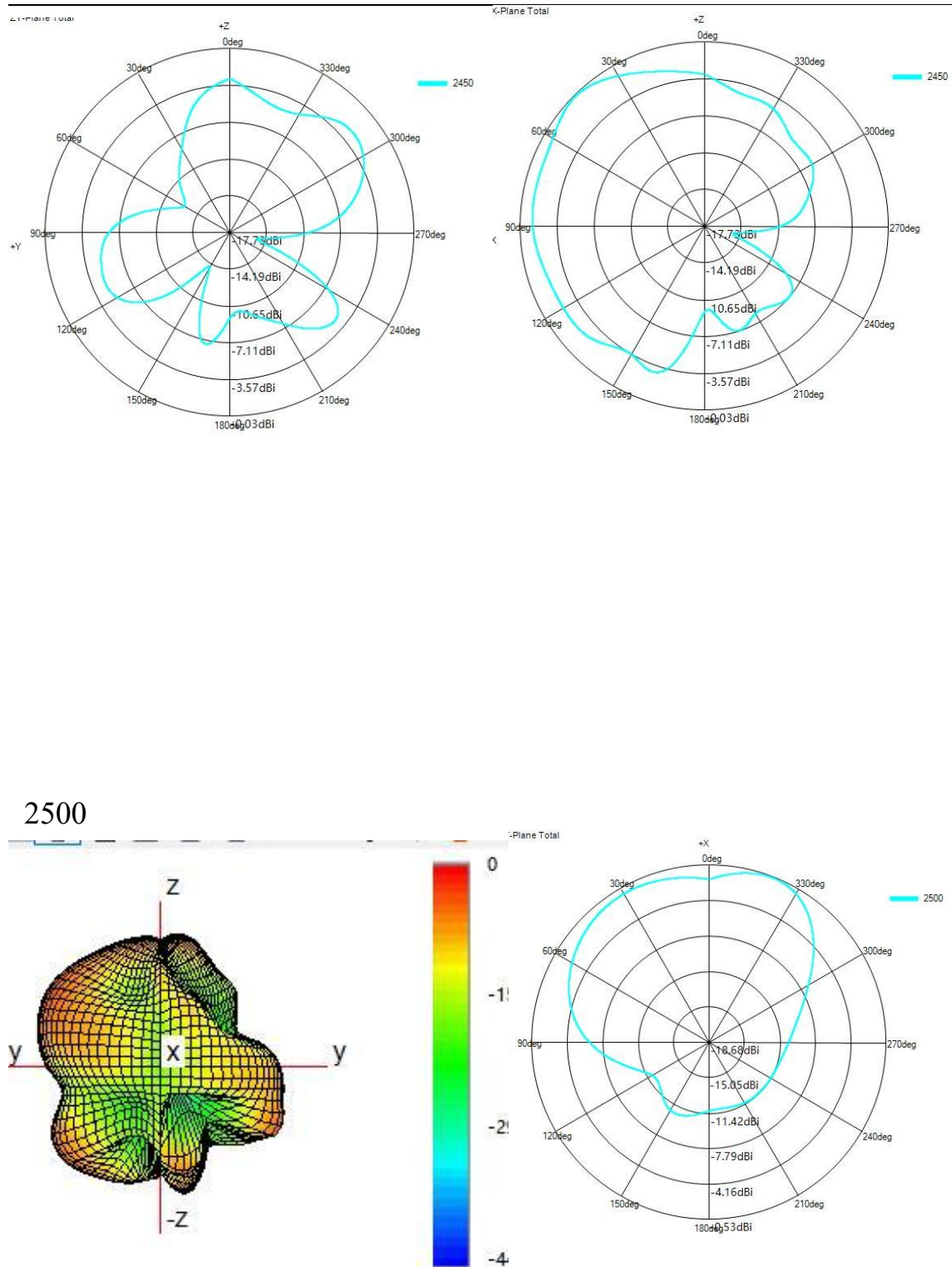
Dosking MicroElectronics Co.,Ltd

Address: Room 403, West Building, Building 2, Private Enterprise Science Park, Xili University Town, Nanshan District, Shenzhen

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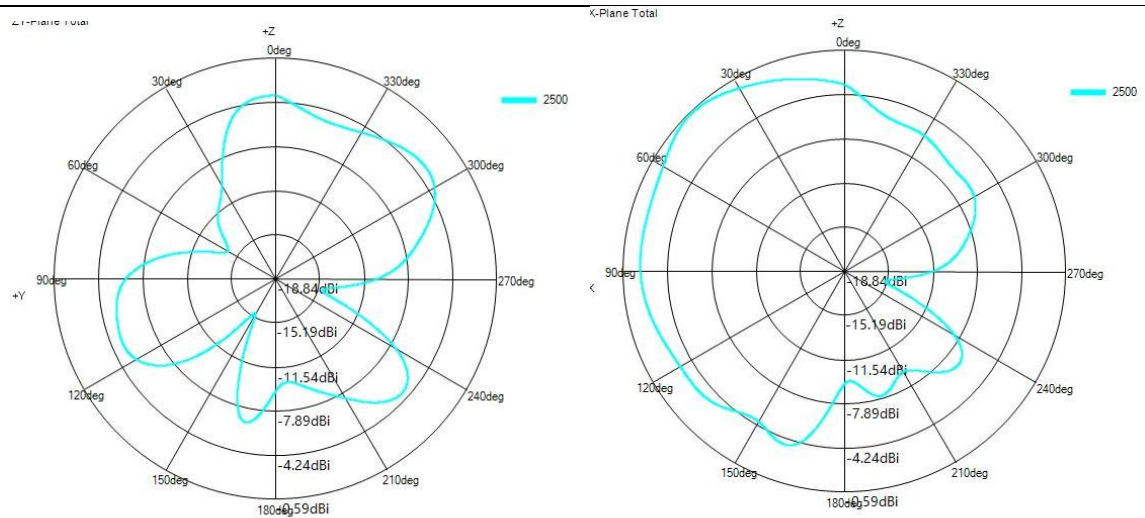
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## 6. Structural Drawings

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