

Shenzhen Anwei Wireless Technology Co., Ltd

SPECIFICATION

|                                 |                       |                |              |
|---------------------------------|-----------------------|----------------|--------------|
| Customer                        | weipai                | Specs          | BW6-H-V9     |
| Part Number                     | AW006-BW6-H-V9-021-A0 | Frequency Band | 2.4G/5G-WIFI |
| Color                           | Balck                 | Edition        | REV:A        |
| Salesperson                     | Xu long               | Design         | Huang he     |
| Structure                       | Qin yun lin           | Confirm        | Song         |
| Date                            | 2025/9/5              | Signing Date   |              |
| Customer confirmation:          |                       |                |              |
| Join hands to create the future |                       |                |              |

## CATALOGUE

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## 1、Product specification

The report mainly provides parameter test of BW6-H-V9 antenna performance.

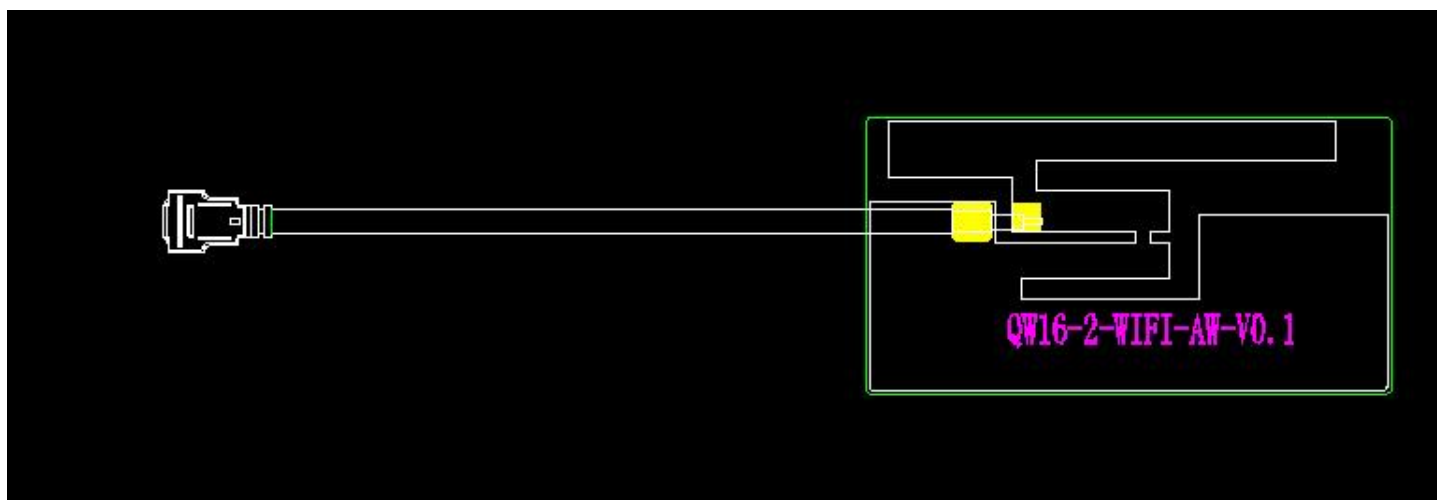
| Silk screen model | Frequency+Range | Impendence  | Antenna Gain | V. S. W. R |
|-------------------|-----------------|-------------|--------------|------------|
| BW6-H-V9          | 2400~2500MHz    | 50 $\Omega$ | 1. 4dBi      | 1. 6       |
|                   | 5100~5800       | 50 $\Omega$ | 3. 06dBi     | 1. 4       |

## 2、Electrical performance

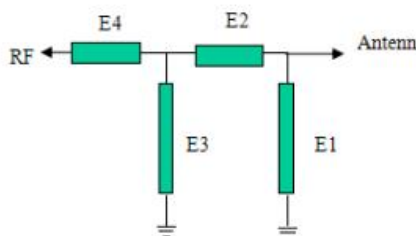
### 2.1 Specifications and standards

BW6-H-V9 antenna operates at 2400~2500/5100~5800MHZ, and resonance occurs at this frequency band.

### 2.2Product Photograph



## 2.3 Antenna matching circuit



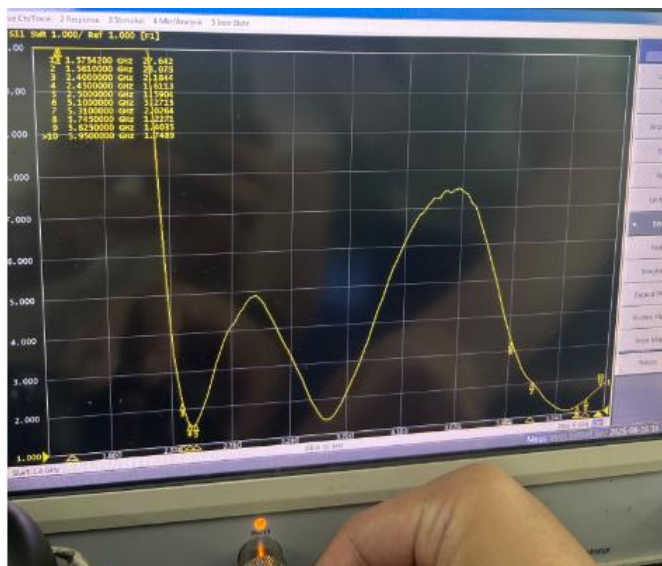
|           | Main Antenna |
|-----------|--------------|
| Element   | Value        |
| E1 (0201) | N/A          |
| E2 (0201) | 0 $\Omega$   |
| E3 (0201) | N/A          |
| E4 (0201) | N/A          |

Antenna structure: FPC+2 generation terminal 60mm copper axis

## 3、Test of passive parameters

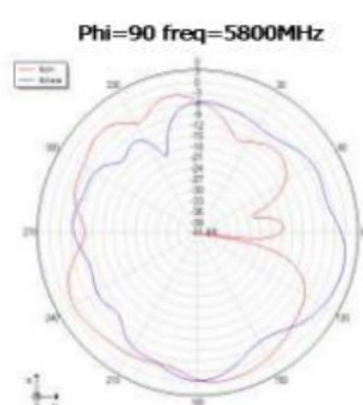
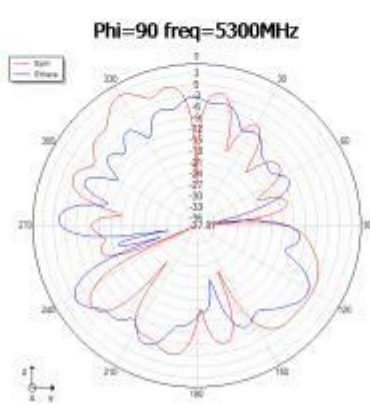
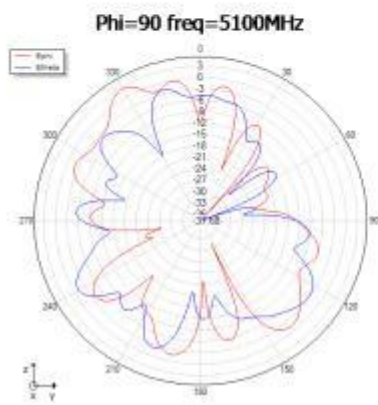
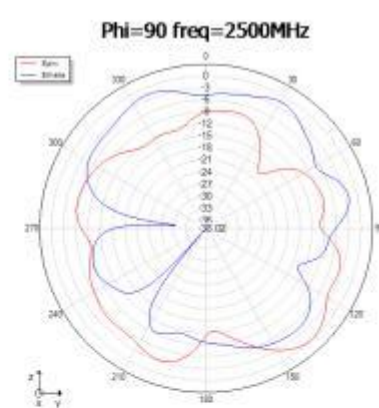
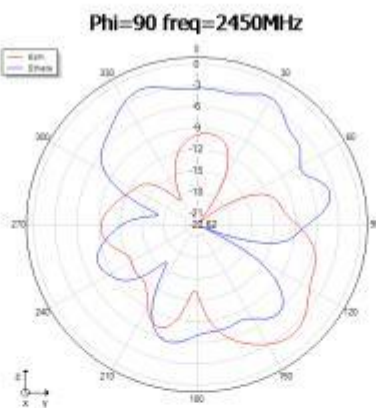
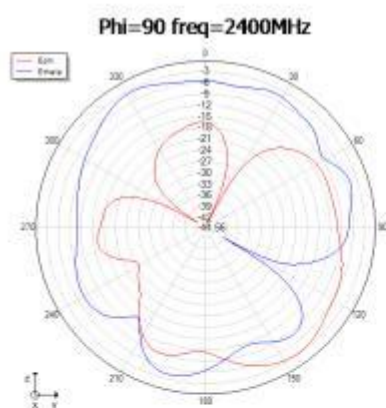
### 3.1 Test result

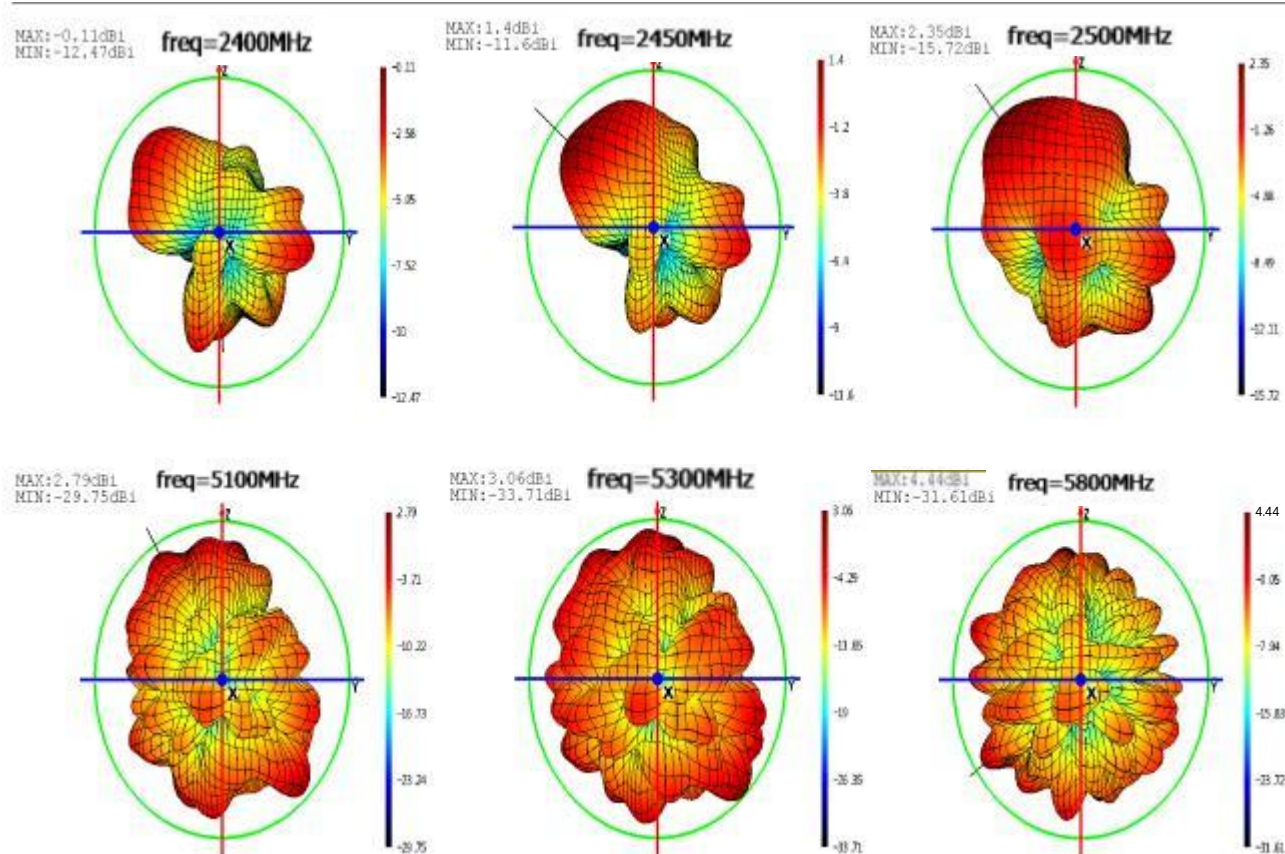
The following are antenna passive parameter data:



## Efficiency and gain

| Frequency ID    | 1     | 2     | 3     | 4     | 5     | 6     |
|-----------------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz) | 2400  | 2450  | 2500  | 5100  | 5300  | 5800  |
| Gain (dBi)      | -0.11 | 1.40  | 2.35  | 2.79  | 3.06  | 4.44  |
| Efficiency (dB) | -4.90 | -3.76 | -2.81 | -2.14 | -2.09 | -1.76 |
| Efficiency (%)  | 48.67 | 48.54 | 51.40 | 52.15 | 51.83 | 56.64 |





## 4、 Setting of OTA active test

### 4.1 Test result

The maximum radiation power and maximum reception sensitivity reflect the maximum power radiation value and the best reception performance of the antenna in the whole radiation space. TRP and TIS reflect the average radiation power and average reception sensitivity of the antenna, that is, the overall reception performance of the antenna.

The following is the active test results of the bright screen of BW6-H-V9 2.4G dual-band WIFI antenna:

## 2.4G

| Standard | Band  | Channel | Frequency | TRP   | TIS    |
|----------|-------|---------|-----------|-------|--------|
| WIFI_B   | B_11M | 1       | 2412      | 18.86 | -83.63 |
| WIFI_B   | B_11M | 6       | 2437      | 18.14 | -85.39 |
| WIFI_B   | B_11M | 11      | 2462      | 18.41 | -77.8  |
| WIFI_G   | G_54M | 1       | 2412      | 17.92 | -66.83 |
| WIFI_G   | G_54M | 6       | 2437      | 17.87 | -64.53 |
| WIFI_G   | G_54M | 11      | 2462      | 18.04 | -62.62 |
| WIFI_N   | N_65M | 1       | 2412      | 18.92 | -67.97 |
| WIFI_N   | N_65M | 6       | 2437      | 18.36 | -66.35 |
| WIFI_N   | N_65M | 11      | 2462      | 18.54 | -63.93 |

## 2.4G/5.0G

| Standard | Band  | Channel | Frequency | TRP   | TIS    |
|----------|-------|---------|-----------|-------|--------|
| WIFI_B   | B_11M | 1       | 2412      | 18.36 | -72.77 |
| WIFI_B   | B_11M | 6       | 2437      | 18.84 | -80.27 |
| WIFI_B   | B_11M | 11      | 2462      | 18.11 | -75.98 |
| WIFI_G   | G_54M | 36      | 2412      | 16.36 | -71.03 |
| WIFI_G   | G_54M | 64      | 2437      | 17.91 | -69.6  |
| WIFI_G   | G_54M | 165     | 2462      | 17.47 | -57.48 |
| WIFI_N   | N_65M | 1       | 2412      | 18.78 | -78.36 |
| WIFI_N   | N_65M | 6       | 2437      | 16.71 | -69.62 |
| WIFI_N   | N_65M | 11      | 2462      | 17.85 | -67.93 |
| WIFI_A   | A_54M | 36      | 5180      | 17.33 | -59.7  |
| WIFI_A   | A_54M | 64      | 5320      | 15.87 | -74.45 |
| WIFI_A   | A_54M | 165     | 5825      | 18.59 | -74.7  |

## 4.2 Environmental treatment



5.Recommendations and conclusions

This report is based on the antenna electrical performance measured by the product provided by the customer. Please check it carefully.

6. Antenna structure drawing

