

## 1. Antenna Description:

|                 |                                                                          |
|-----------------|--------------------------------------------------------------------------|
| Antenna type    | PIFA antenna                                                             |
| Model           | T700-WIFI                                                                |
| Frequency range | 2400-2500MHz, 5180-5240MHz, 5745-5825MHz                                 |
| Manufacturer    | Shenzhen Binhai Rongchuang Technology Co., LTD                           |
| ANT Peak Gain   | 2400-2500MHz:0.95 dBi; 5180-5240MHz: 3.11 dBi;<br>5745-5825MHz: 3.11 dBi |

## 2. Antenna Photo:

Length :38.40mm  
Width:17.91mm



### 3. Test Equipment & Conditions

#### 3.1 Test instrument

VSWR is tested using Agilent E5071B connected to a hand mechanism, and the status is free space.

#### 3.2 Test environment and methods

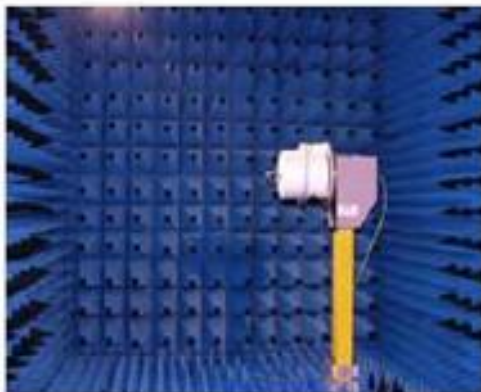
Dark room specifications: ETS-743

TD-SCDMA test equipment: StarPoint SP6010/Agilent 8960

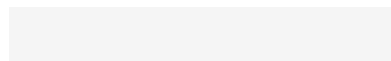
LTE-TDD/FDD-SCDMA test equipment: StarPoint SP8011/CMW500

WCDMA/GSM/CDMA test equipment: Agilent 8960

Passive efficiency testing equipment: Agilent Technologies E5071B



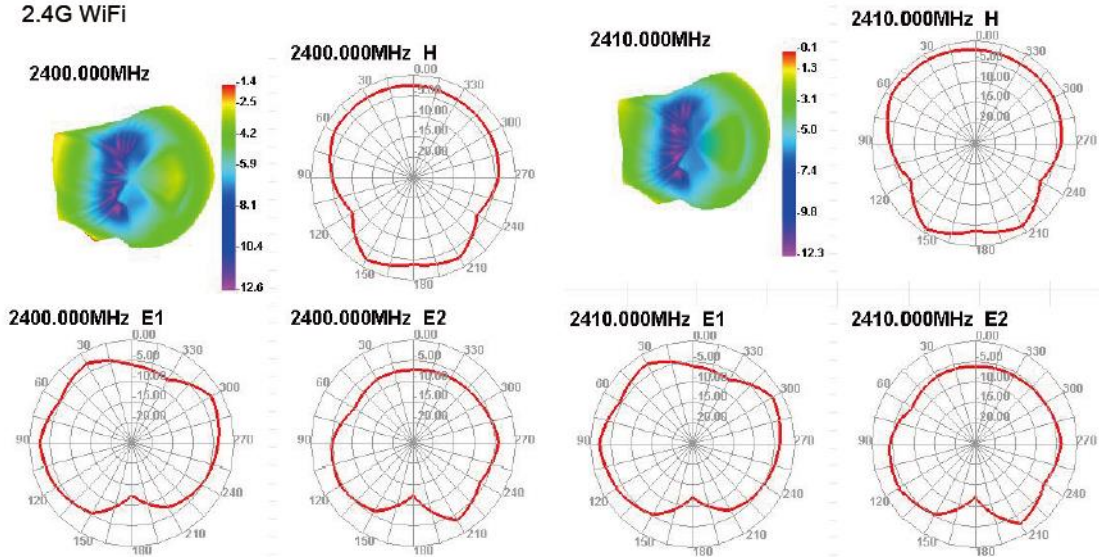
### 4 . Antenna Radiation Pattern



增益与效率  
2.4G WiFi

| Passive Test For WIFI2.4 |          |           |            |            |          |          |          |          |              |              |
|--------------------------|----------|-----------|------------|------------|----------|----------|----------|----------|--------------|--------------|
| Freq (MHz)               | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | OHIS (%) | OHIS (%) | Max (dB) | Min (dB) | Attenuat Hor | Attenuat Ver |
| 2400                     | 35.96    | -4.44     | -1.38      | -3.53      | 15.708   | 20.257   | -1.38    | -12.63   | 55.76        | 57.21        |
| 2410                     | 42.2     | -3.75     | -0.09      | -2.24      | 18.101   | 24.097   | -0.09    | -12.29   | 55.83        | 58.53        |
| 2420                     | 43.38    | -3.63     | -0.32      | -2.47      | 18.847   | 24.529   | -0.32    | -12.39   | 56.07        | 58.09        |
| 2430                     | 46.03    | -3.37     | -0.18      | -2.33      | 20.118   | 25.912   | -0.18    | -12.29   | 56.25        | 58.05        |
| 2440                     | 48.37    | -3.15     | 0.07       | -2.08      | 21.057   | 27.313   | 0.07     | -12.37   | 56.61        | 58.56        |
| 2450                     | 51.47    | -2.88     | 0.4        | -1.75      | 22.421   | 29.048   | 0.4      | -11.73   | 56.87        | 58.64        |
| 2460                     | 47.25    | -3.26     | 0.14       | -2.01      | 20.842   | 26.413   | 0.14     | -12.17   | 56.54        | 57.97        |
| 2470                     | 46.55    | -3.32     | 0.2        | -1.95      | 20.424   | 26.137   | 0.2      | -12.11   | 56.17        | 58.01        |
| 2480                     | 47.8     | -3.21     | 0.55       | -1.6       | 21.056   | 26.747   | 0.55     | -11.75   | 56.4         | 57.83        |
| 2490                     | 48.39    | -3.15     | 0.95       | -1.2       | 21.357   | 27.037   | 0.95     | -11.62   | 56.48        | 57.83        |
| 2500                     | 47.35    | -3.25     | 0.89       | -1.26      | 20.797   | 26.552   | 0.89     | -11.52   | 56.61        | 58.07        |

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增益与效率  
5G WiFi

| Passive Test For WiFi5.8 |          |           |            |            |         |         |          |          |              |              |
|--------------------------|----------|-----------|------------|------------|---------|---------|----------|----------|--------------|--------------|
| Freq (MHz)               | Eff1 (%) | Eff1 (dB) | Gain (dBi) | Gain (dBd) | UHS (%) | DHS (%) | Max (dB) | Min (dB) | Attenuat Hor | Attenuat Ver |
| 5150                     | 15.46    | -8.11     | -3.36      | -5.51      | 10.025  | 5.432   | -3.36    | -23.74   | 67.18        | 67.14        |
| 5200                     | 17.73    | -7.51     | -2.18      | -4.33      | 11.532  | 6.195   | -2.18    | -21.95   | 67.83        | 67.32        |
| 5250                     | 17.71    | -7.52     | -2.12      | -4.27      | 11.388  | 6.347   | -2.12    | -21.86   | 66.74        | 66.84        |
| 5300                     | 15.79    | -8.01     | -1.52      | -3.67      | 10.125  | 5.67    | -1.52    | -33.86   | 66.54        | 66.18        |
| 5350                     | 20.94    | -6.79     | -0.29      | -2.44      | 13.652  | 7.284   | -0.29    | -20.07   | 67.31        | 67.51        |
| 5400                     | 26.33    | -5.79     | 0.36       | -1.79      | 17.006  | 9.328   | 0.36     | -20.24   | 68.37        | 68.36        |
| 5450                     | 31.23    | -5.05     | 0.56       | -1.59      | 20.308  | 10.924  | 0.56     | -20.81   | 69.39        | 70.32        |
| 5500                     | 32.46    | -4.89     | 0.94       | -1.21      | 21.606  | 10.853  | 0.94     | -18.82   | 70.94        | 71.47        |
| 5550                     | 40.81    | -3.89     | 1.3        | -0.85      | 25.97   | 14.843  | 1.3      | -17.71   | 71.36        | 72.61        |
| 5600                     | 45.86    | -3.39     | 3.11       | 0.96       | 28.447  | 17.414  | 3.11     | -14.95   | 71.47        | 73.22        |
| 5650                     | 37.72    | -4.23     | 1.67       | -0.48      | 24.898  | 12.82   | 1.67     | -17.47   | 71.79        | 72.29        |
| 5700                     | 22.65    | -6.45     | -1.68      | -3.63      | 14.431  | 8.162   | -1.68    | -20.25   | 70.18        | 70.93        |
| 5750                     | 21       | -6.78     | -1.41      | -3.56      | 12.934  | 8.014   | -1.41    | -17.4    | 69.58        | 70.68        |
| 5800                     | 24.72    | -6.07     | -1.37      | -3.52      | 15.431  | 9.229   | -1.37    | -16.1    | 70           | 71.21        |
| 5850                     | 22.67    | -6.45     | -1.25      | -3.4       | 14.252  | 8.404   | -1.25    | -14.51   | 70.78        | 70.75        |

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