

Antenna Coding: ANT-BBNCNC22013

Antenna Type: PCB onboard Antenna, Patch Antenna

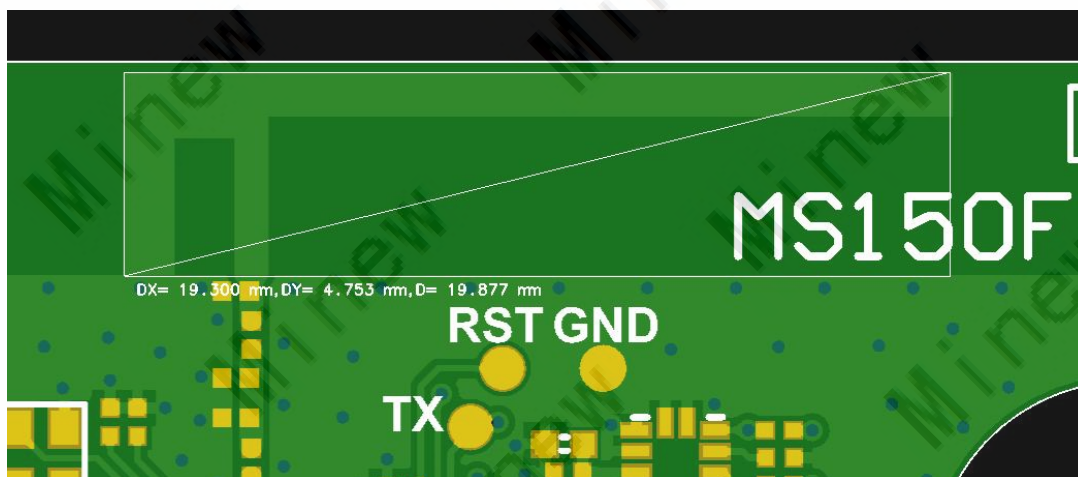
Model of the DUT: MWC01

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

### 1、Technical Specification

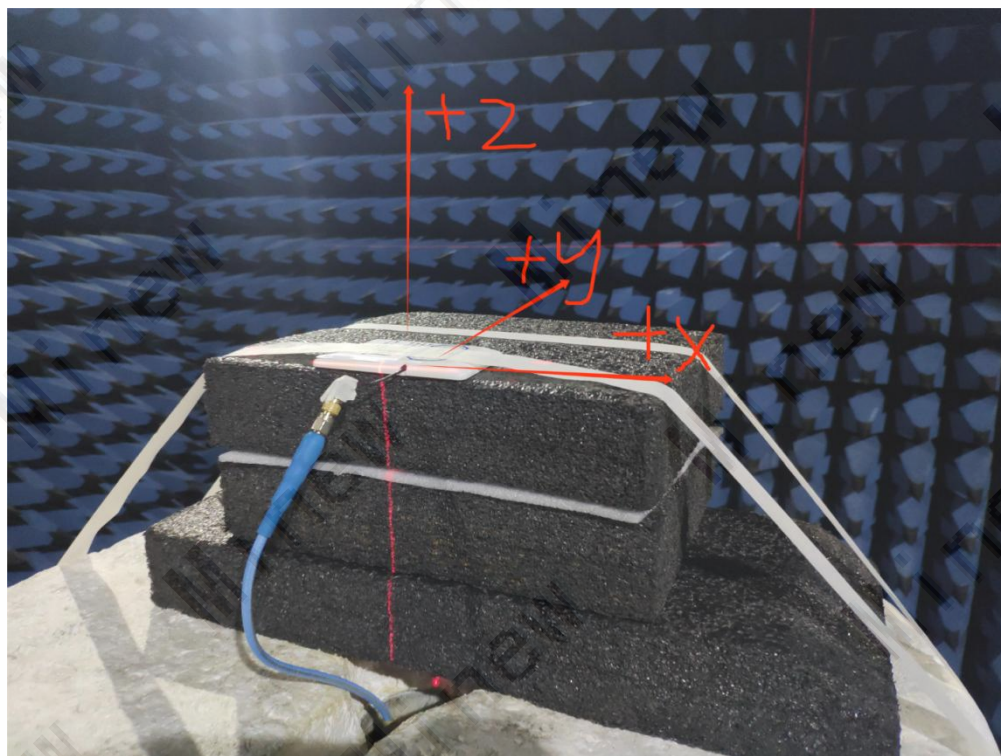
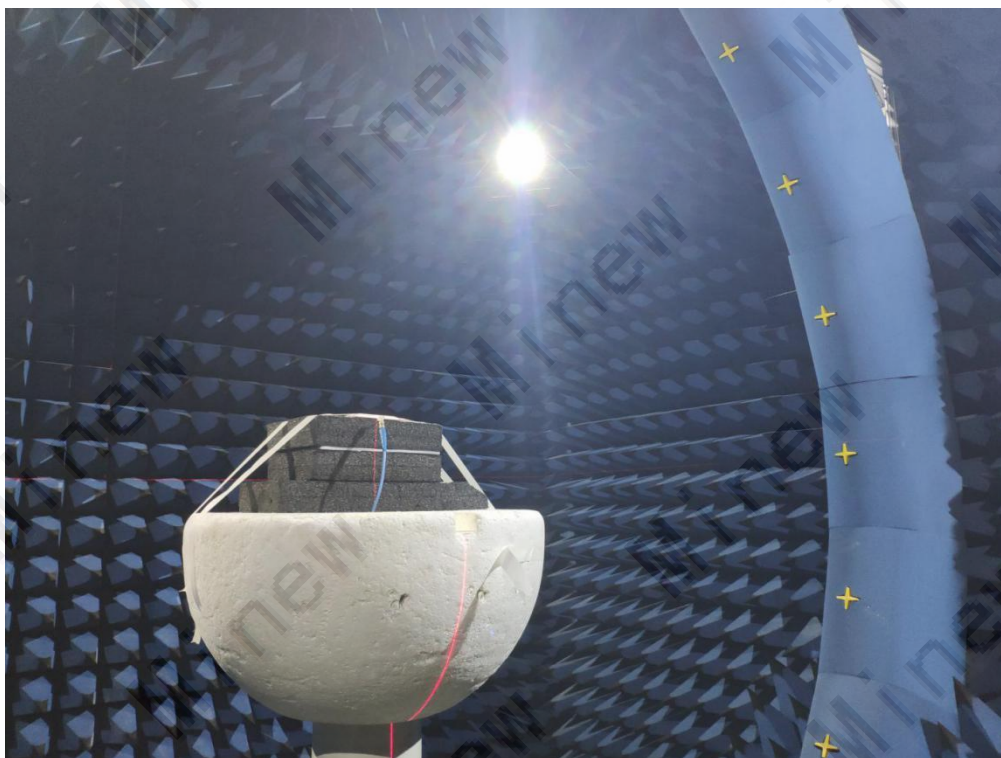
| Electrical Specifications    |                     |
|------------------------------|---------------------|
| Frequency Range (MHz)        | 2402-2480           |
| Input Impedance ( $\Omega$ ) | 50                  |
| Return Loss (dB)             | <-15                |
| VSWR                         | <1.5                |
| Peak Gain (dBi)              | 2.54                |
| Polarization Type            | Linear polarization |
| Mechanical Specifications    |                     |
| Antenna Size (mm)            | 19.3*4.75           |
| Radiator                     | Cuprum              |

### 2、The shape and size of the antenna



### 3、The result of the test

#### 3.1 Test Environment



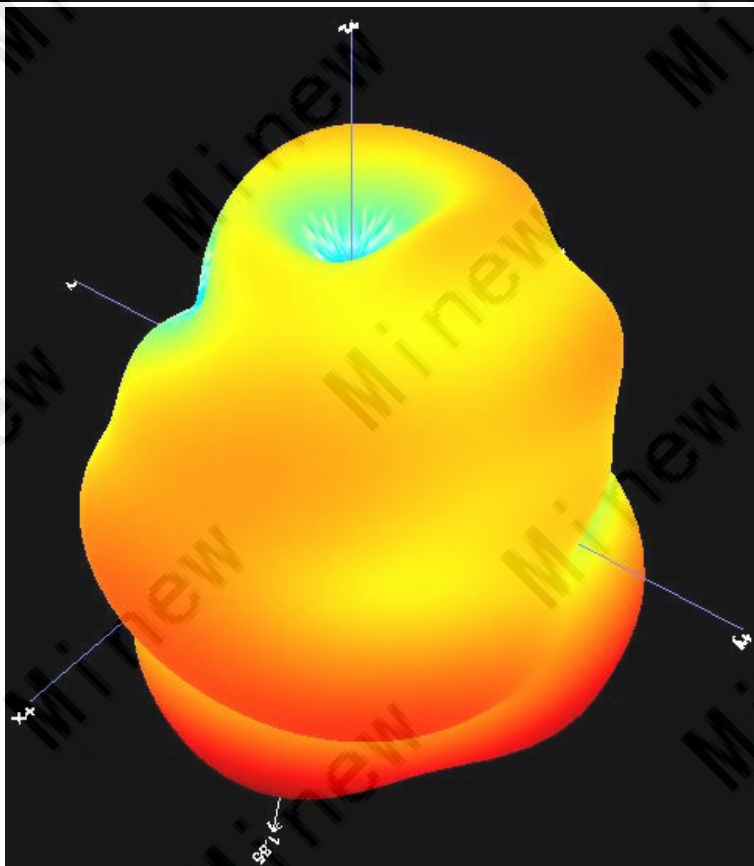




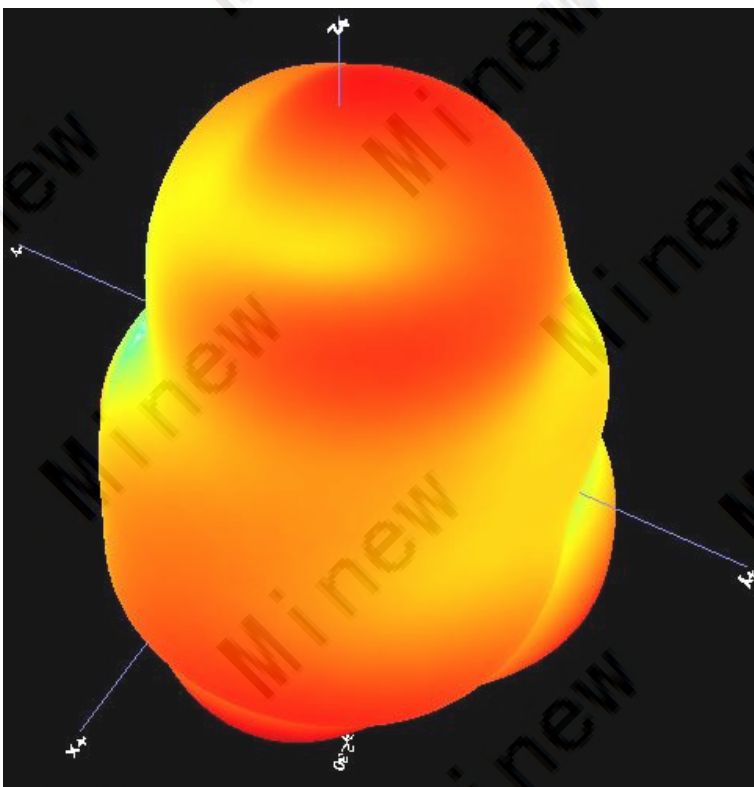
### 3.2 Gain and Efficiency

| EUT型号<br>备注 | 2#-MWC01   |               | PeakGain |
|-------------|------------|---------------|----------|
| Frequency   | Gain (dBi) | Efficiency(%) |          |
| 2400MHz     | 1.83       | 66%           | 2.54643  |
| 2402MHz     | 1.85       | 66%           |          |
| 2404MHz     | 1.85       | 66%           |          |
| 2406MHz     | 1.79       | 66%           |          |
| 2408MHz     | 1.80       | 67%           |          |
| 2410MHz     | 1.81       | 67%           |          |
| 2412MHz     | 1.79       | 67%           |          |
| 2414MHz     | 1.77       | 67%           |          |
| 2416MHz     | 1.87       | 68%           |          |
| 2418MHz     | 1.87       | 68%           |          |
| 2420MHz     | 1.87       | 68%           |          |
| 2422MHz     | 1.91       | 69%           |          |
| 2424MHz     | 1.98       | 69%           |          |
| 2426MHz     | 2.03       | 70%           |          |
| 2428MHz     | 2.05       | 70%           |          |
| 2430MHz     | 2.10       | 70%           |          |
| 2432MHz     | 2.15       | 70%           |          |
| 2434MHz     | 2.20       | 70%           |          |
| 2436MHz     | 2.21       | 70%           |          |
| 2438MHz     | 2.24       | 70%           |          |
| 2440MHz     | 2.30       | 70%           |          |
| 2442MHz     | 2.35       | 70%           |          |
| 2444MHz     | 2.37       | 70%           |          |
| 2446MHz     | 2.48       | 70%           |          |
| 2448MHz     | 2.51       | 70%           |          |
| 2450MHz     | 2.55       | 70%           |          |
| 2452MHz     | 2.48       | 71%           |          |
| 2454MHz     | 2.49       | 71%           |          |
| 2456MHz     | 2.49       | 71%           |          |
| 2458MHz     | 2.51       | 72%           |          |
| 2460MHz     | 2.49       | 72%           |          |
| 2462MHz     | 2.50       | 72%           |          |
| 2464MHz     | 2.51       | 73%           |          |
| 2466MHz     | 2.45       | 73%           |          |
| 2468MHz     | 2.45       | 74%           |          |
| 2470MHz     | 2.47       | 74%           |          |
| 2472MHz     | 2.48       | 75%           |          |
| 2474MHz     | 2.50       | 75%           |          |
| 2476MHz     | 2.50       | 76%           |          |
| 2478MHz     | 2.52       | 75%           |          |
| 2480MHz     | 2.54       | 75%           |          |

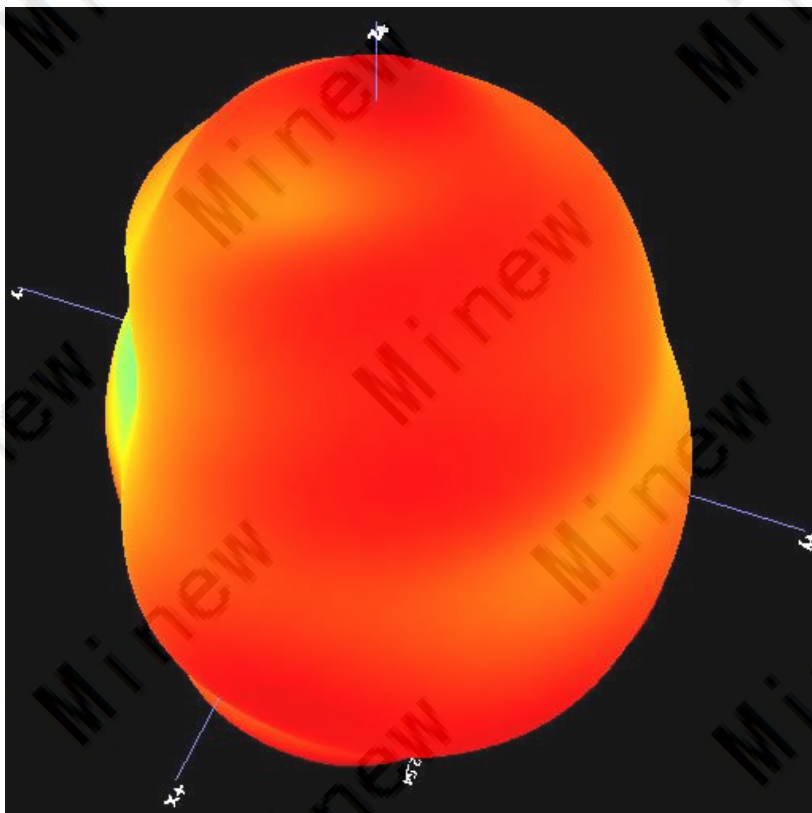
### 3.3 3D Polar Plot



2402MHz



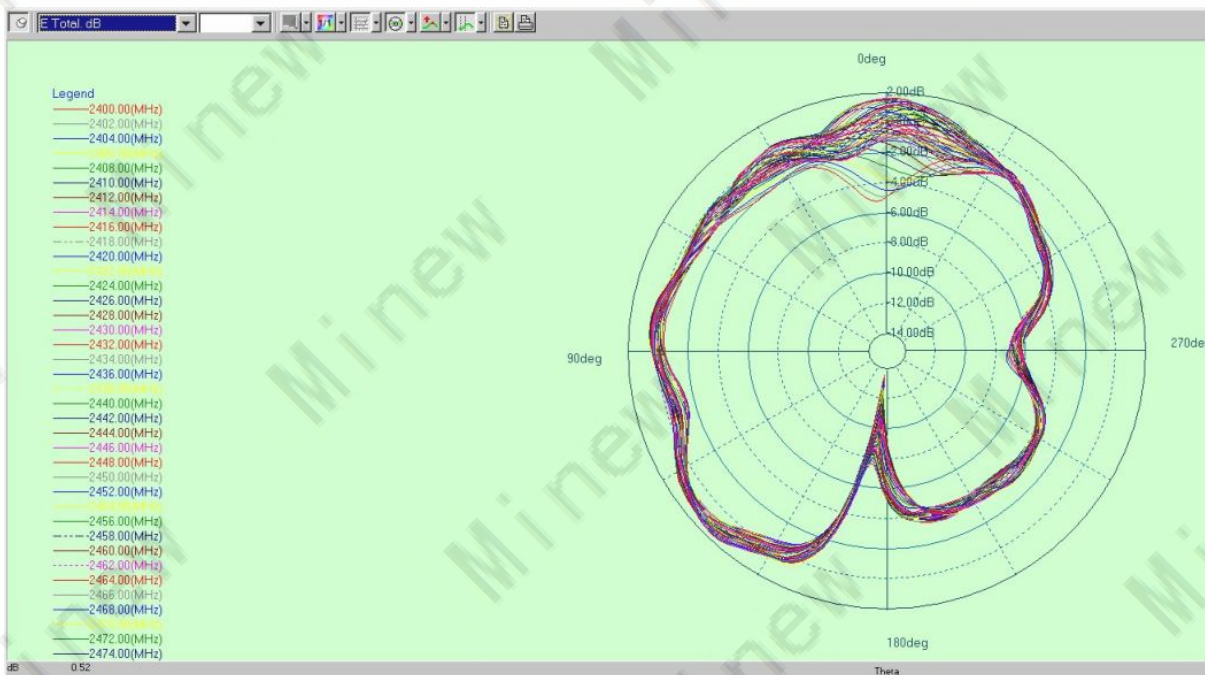
2440MHz



2480MHz

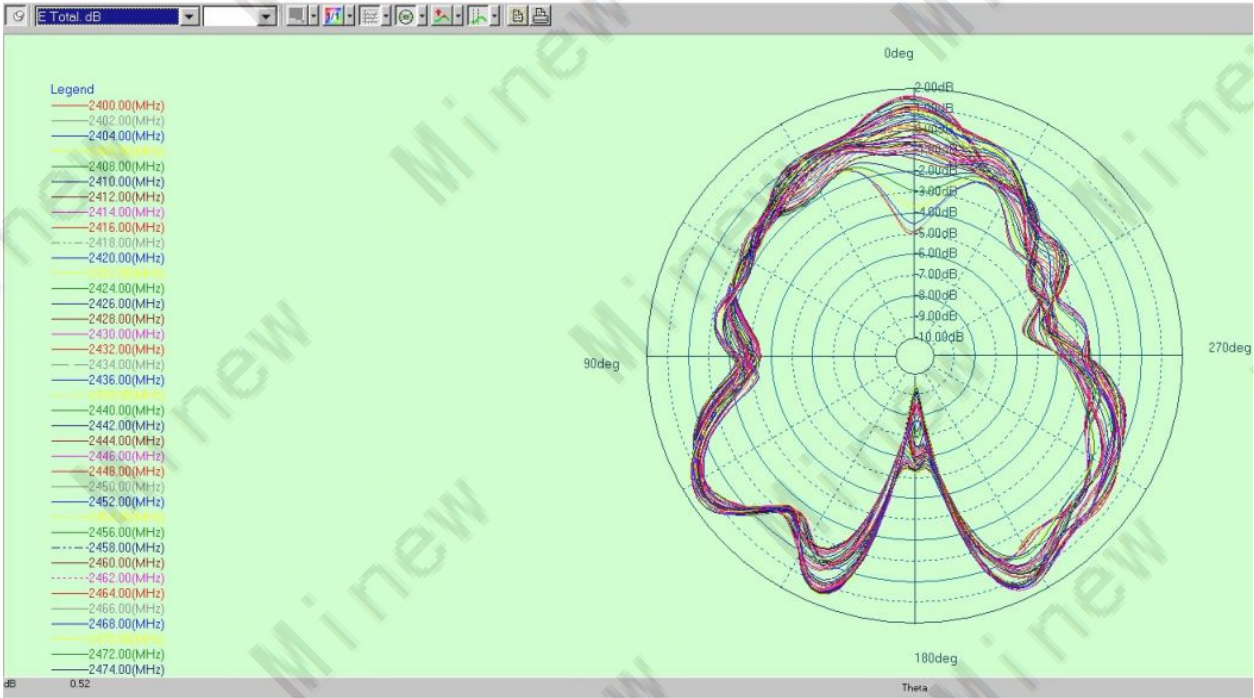
### 3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0





(2) E2, YZ Plane, phi=90°



(3) H, XY plane, theta=90°

