

Antenna Coding: ANT-BBNCNC23001

Antenna Type: PCB onboard Antenna

Model of the DUT: MBS02

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

1、Technical Specification

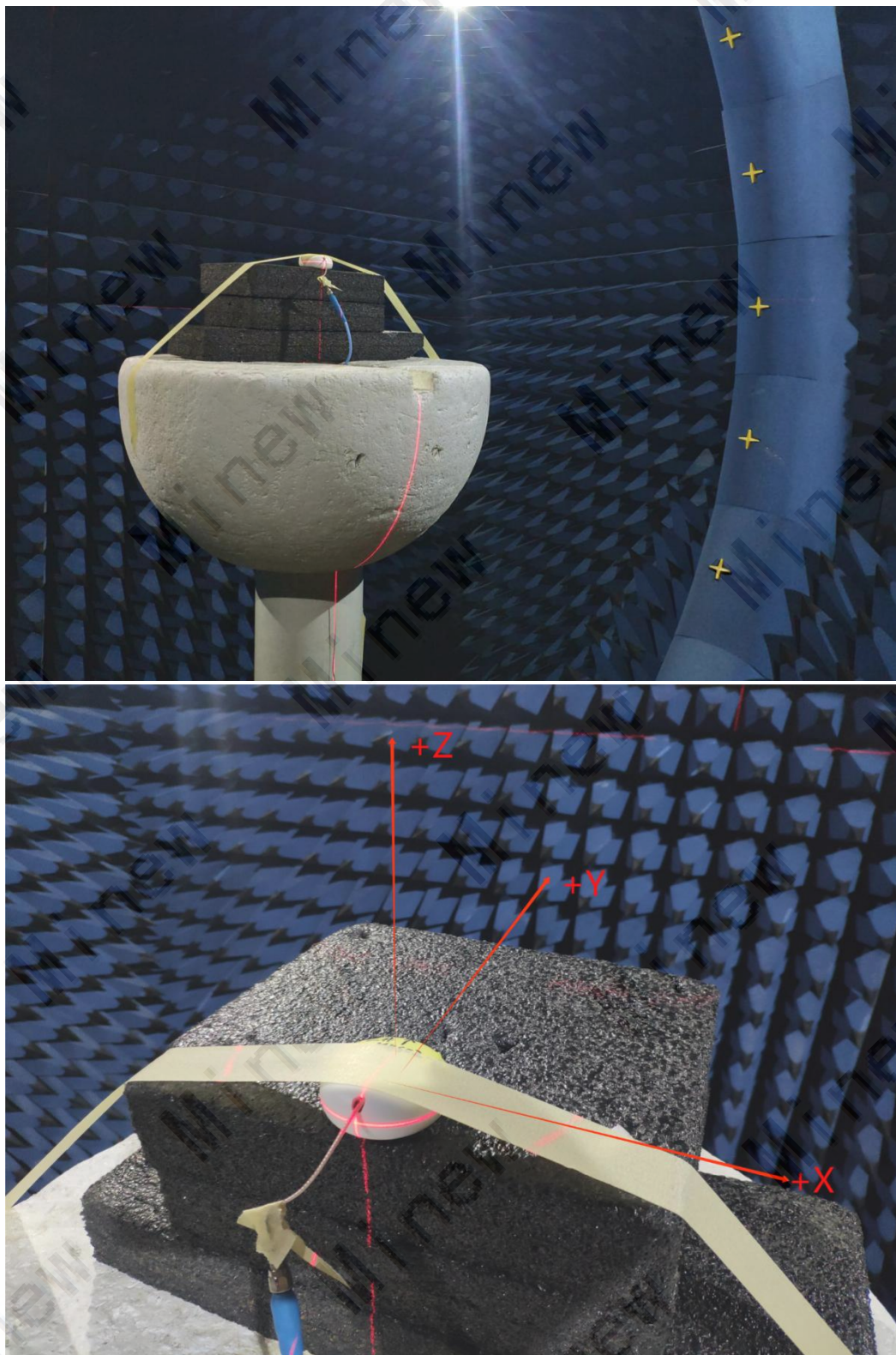
| Electrical Specifications | |
|------------------------------|---------------------|
| Frequency Range (MHz) | 2400-2480 |
| Input Impedance (Ω) | 50 |
| Return Loss (dB) | <-10 |
| VSWR | <2 |
| Peak Gain (dBi) | 2.29 |
| Polarization Type | Linear polarization |
| Mechanical Specifications | |
| Antenna Size (mm) | 27.4*5.7 |
| Radiator | Cuprum |

2、The shape and size of the antenna



3、 The result of the test

3.1 Test Environment

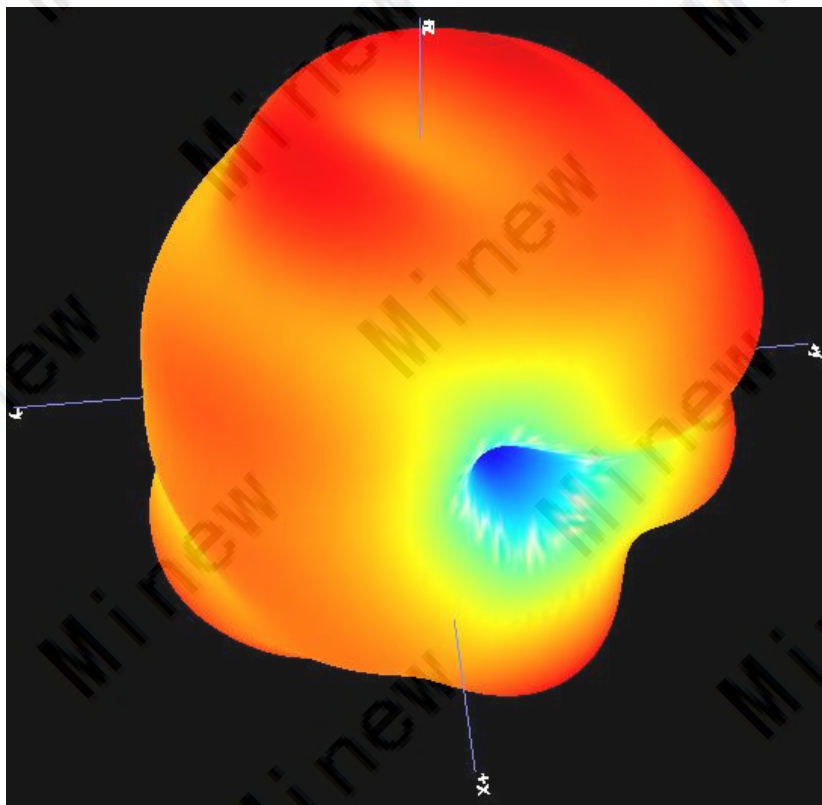




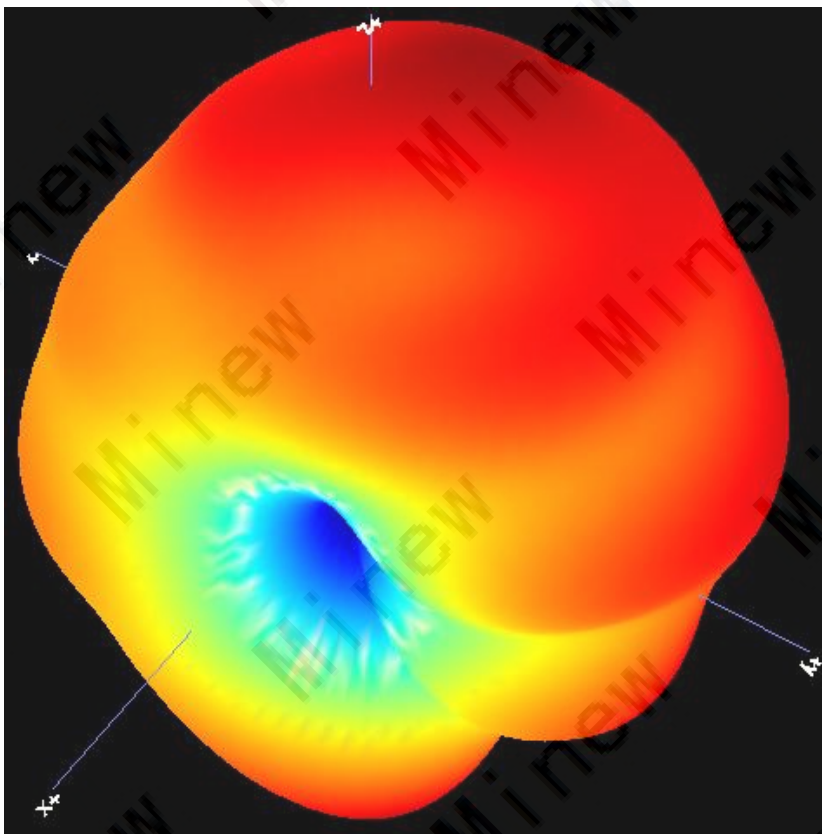
3.2 Gain and Efficiency

| Frequency | Gain (dBi) | Efficiency(%) | PeakGain (dBi) |
|-----------|------------|---------------|----------------|
| 2400MHz | 1.61 | 67% | 2.29 |
| 2402MHz | 1.68 | 68% | |
| 2404MHz | 1.71 | 68% | |
| 2406MHz | 1.68 | 68% | |
| 2408MHz | 1.70 | 68% | |
| 2410MHz | 1.70 | 69% | |
| 2412MHz | 1.67 | 69% | |
| 2414MHz | 1.64 | 69% | |
| 2416MHz | 1.62 | 69% | |
| 2418MHz | 1.62 | 69% | |
| 2420MHz | 1.59 | 69% | |
| 2422MHz | 1.57 | 70% | |
| 2424MHz | 1.76 | 70% | |
| 2426MHz | 1.88 | 71% | |
| 2428MHz | 2.04 | 71% | |
| 2430MHz | 2.12 | 71% | |
| 2432MHz | 2.15 | 72% | |
| 2434MHz | 2.13 | 72% | |
| 2436MHz | 2.05 | 72% | |
| 2438MHz | 1.91 | 72% | |
| 2440MHz | 1.95 | 72% | |
| 2442MHz | 2.00 | 73% | |
| 2444MHz | 2.02 | 73% | |
| 2446MHz | 2.24 | 73% | |
| 2448MHz | 2.24 | 72% | |
| 2450MHz | 2.26 | 72% | |
| 2452MHz | 2.26 | 72% | |
| 2454MHz | 2.24 | 72% | |
| 2456MHz | 2.19 | 72% | |
| 2458MHz | 2.20 | 72% | |
| 2460MHz | 2.20 | 73% | |
| 2462MHz | 2.20 | 73% | |
| 2464MHz | 2.22 | 74% | |
| 2466MHz | 2.11 | 74% | |
| 2468MHz | 2.14 | 75% | |
| 2470MHz | 2.15 | 76% | |
| 2472MHz | 2.18 | 76% | |
| 2474MHz | 2.23 | 77% | |
| 2476MHz | 2.29 | 78% | |
| 2478MHz | 2.29 | 78% | |
| 2480MHz | 2.28 | 78% | |

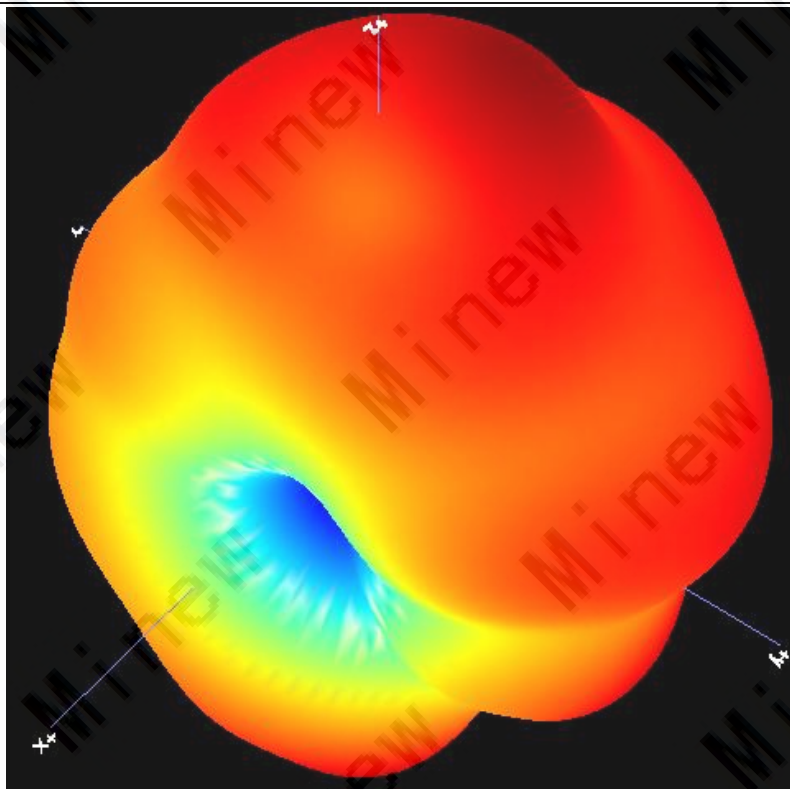
3.3 3D Polar Plot



2402MHz



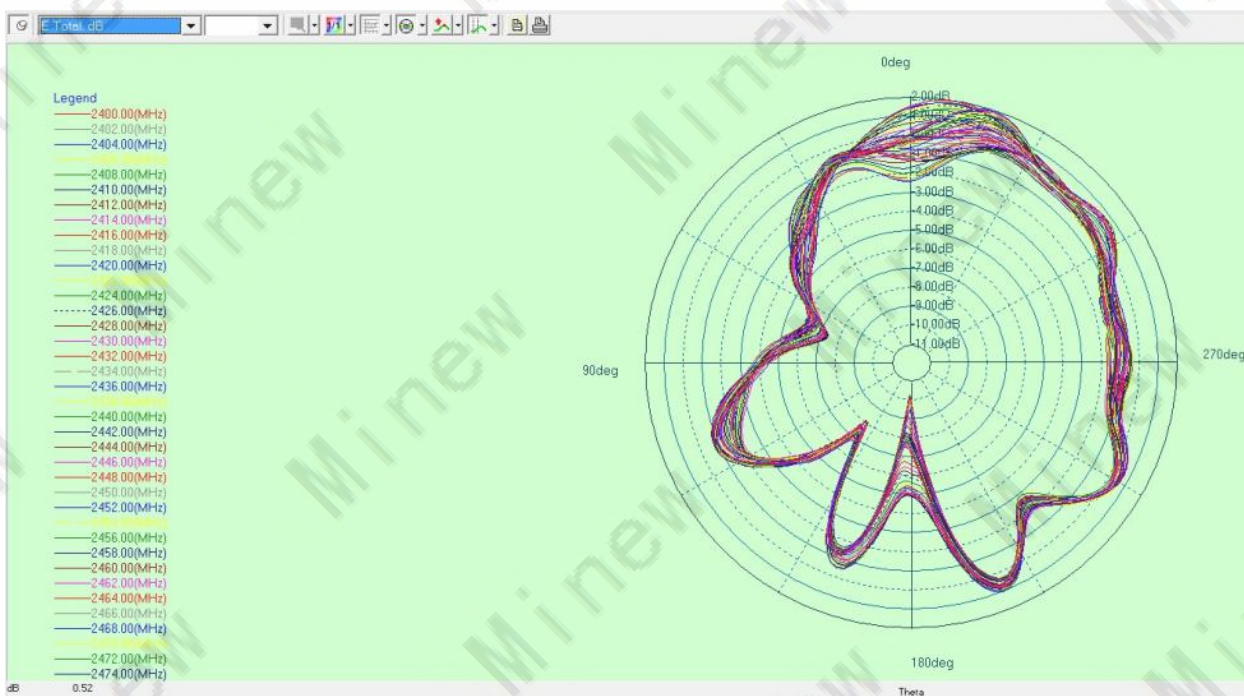
2440MHz



2480MHz

3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane, phi=90°



(3) H, XY plane, theta=90°

