

Antenna Coding: ANT-BBNCNC22017

Antenna Type: PCB onboard Antenna

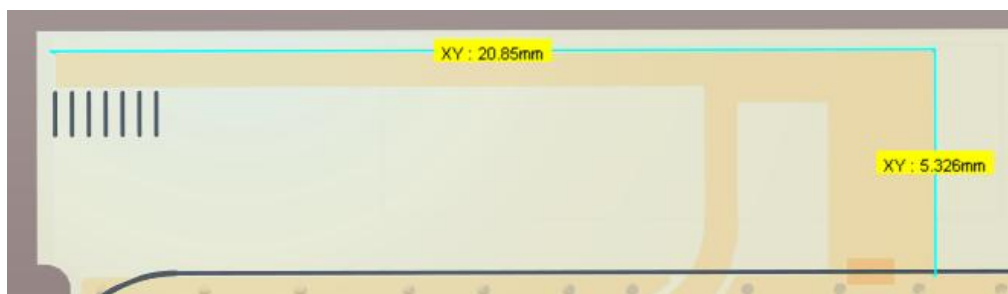
Model of the DUT: SE-290R

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

## 1、Technical Specification

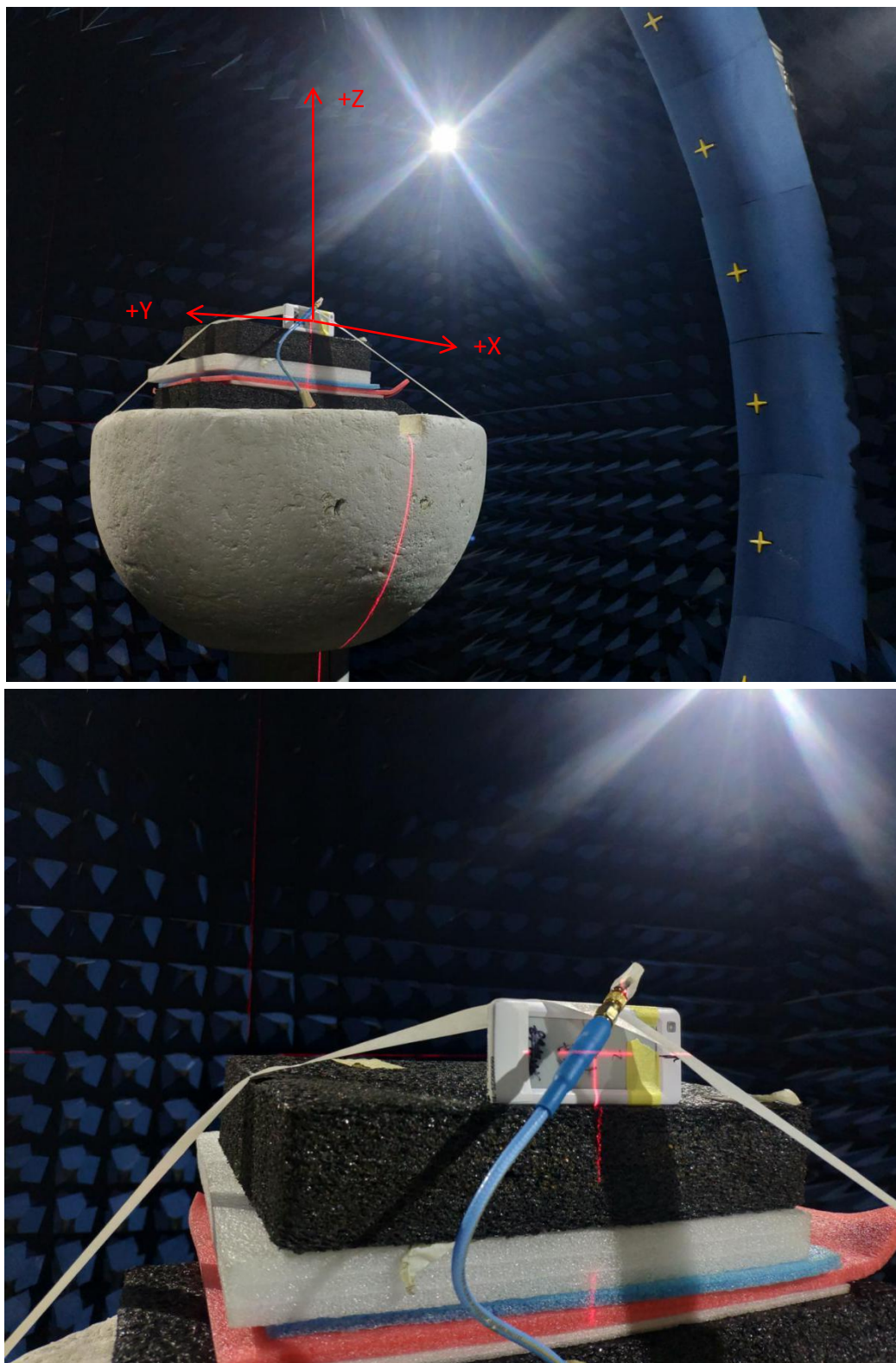
| Electrical Specifications    |                     |
|------------------------------|---------------------|
| Frequency Range (MHz)        | 2400-2480           |
| Input Impedance ( $\Omega$ ) | 50                  |
| Return Loss (dB)             | $<-10$              |
| VSWR                         | $<2$                |
| Peak Gain (dBi)              | 1.47                |
| Polarization Type            | Linear polarization |
| Mechanical Specifications    |                     |
| Antenna Size (mm)            | 20.85*5.326         |
| Radiator                     | Cuprum              |

## 2、The shape and size of the antenna



### 3、 The result of the test

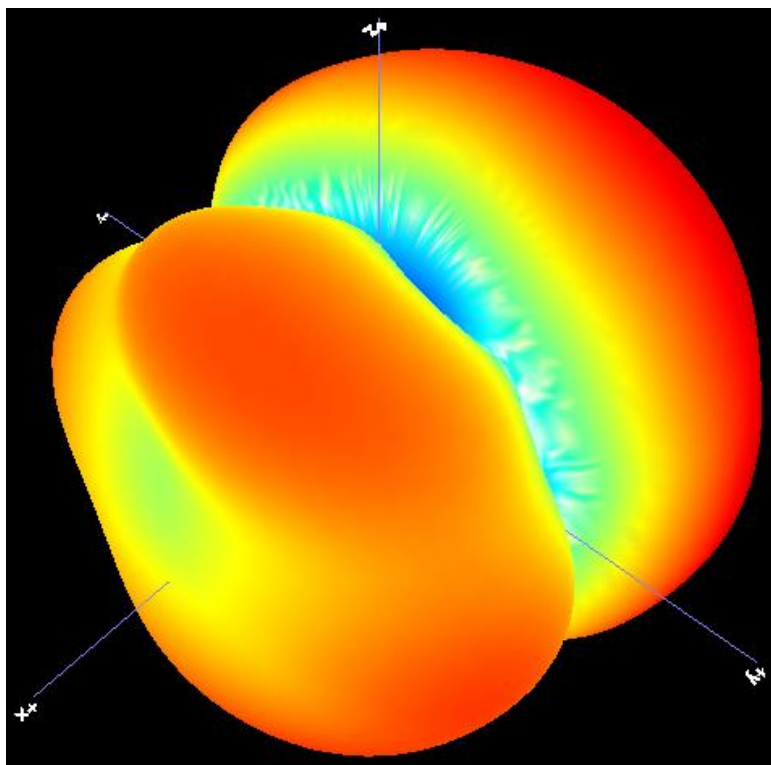
#### 3.1 Test Environment



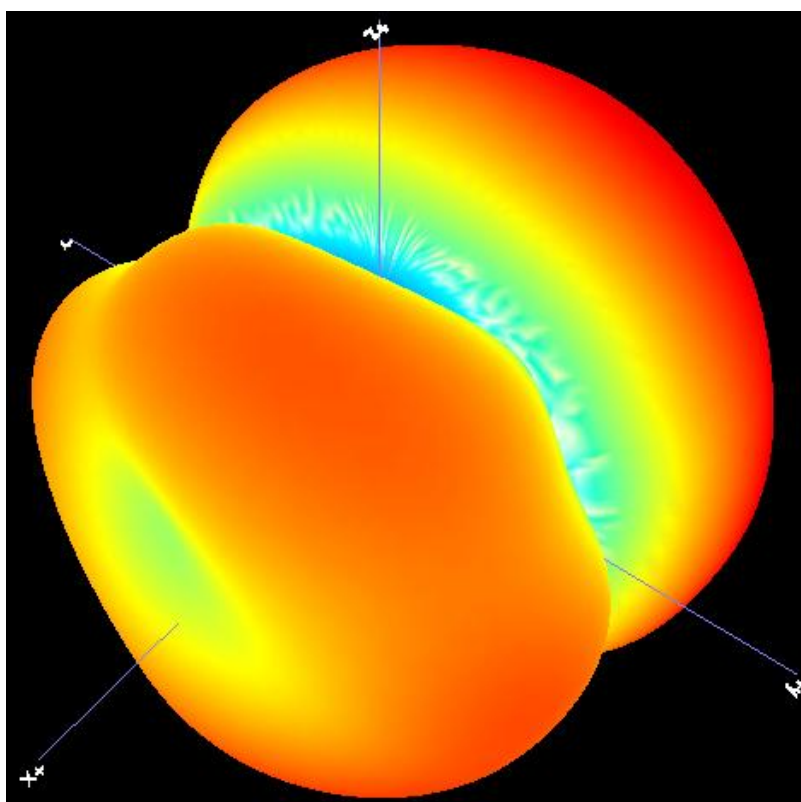
### 3.2 Gain and Efficiency

| EUT型号     | 2#               |               | Peak Gain (dBi) |
|-----------|------------------|---------------|-----------------|
| 备注        | Stag29           |               |                 |
| Frequency | E Total. dB(dBi) | Efficiency(%) |                 |
| 2400MHz   | 1.47             | 44%           | 1.47            |
| 2402MHz   | 1.44             | 44%           |                 |
| 2404MHz   | 1.41             | 44%           |                 |
| 2406MHz   | 1.35             | 44%           |                 |
| 2408MHz   | 1.33             | 44%           |                 |
| 2410MHz   | 1.31             | 43%           |                 |
| 2412MHz   | 1.28             | 43%           |                 |
| 2414MHz   | 1.22             | 42%           |                 |
| 2416MHz   | 1.28             | 42%           |                 |
| 2418MHz   | 1.23             | 41%           |                 |
| 2420MHz   | 1.16             | 40%           |                 |
| 2422MHz   | 1.13             | 40%           |                 |
| 2424MHz   | 1.13             | 39%           |                 |
| 2426MHz   | 1.24             | 39%           |                 |
| 2428MHz   | 1.21             | 39%           |                 |
| 2430MHz   | 1.19             | 39%           |                 |
| 2432MHz   | 1.20             | 39%           |                 |
| 2434MHz   | 1.22             | 39%           |                 |
| 2436MHz   | 1.19             | 38%           |                 |
| 2438MHz   | 1.17             | 38%           |                 |
| 2440MHz   | 1.18             | 38%           |                 |
| 2442MHz   | 1.15             | 38%           |                 |
| 2444MHz   | 1.11             | 38%           |                 |
| 2446MHz   | 1.18             | 38%           |                 |
| 2448MHz   | 1.12             | 37%           |                 |
| 2450MHz   | 1.08             | 37%           |                 |
| 2452MHz   | 1.02             | 37%           |                 |
| 2454MHz   | 0.93             | 36%           |                 |
| 2456MHz   | 0.91             | 36%           |                 |
| 2458MHz   | 0.83             | 35%           |                 |
| 2460MHz   | 0.75             | 34%           |                 |
| 2462MHz   | 0.70             | 34%           |                 |
| 2464MHz   | 0.67             | 34%           |                 |
| 2466MHz   | 0.56             | 34%           |                 |
| 2468MHz   | 0.55             | 33%           |                 |
| 2470MHz   | 0.54             | 33%           |                 |
| 2472MHz   | 0.54             | 33%           |                 |
| 2474MHz   | 0.56             | 33%           |                 |
| 2476MHz   | 0.48             | 33%           |                 |
| 2478MHz   | 0.46             | 33%           |                 |
| 2480MHz   | 0.45             | 33%           |                 |

### 3.3 3D Polar Plot

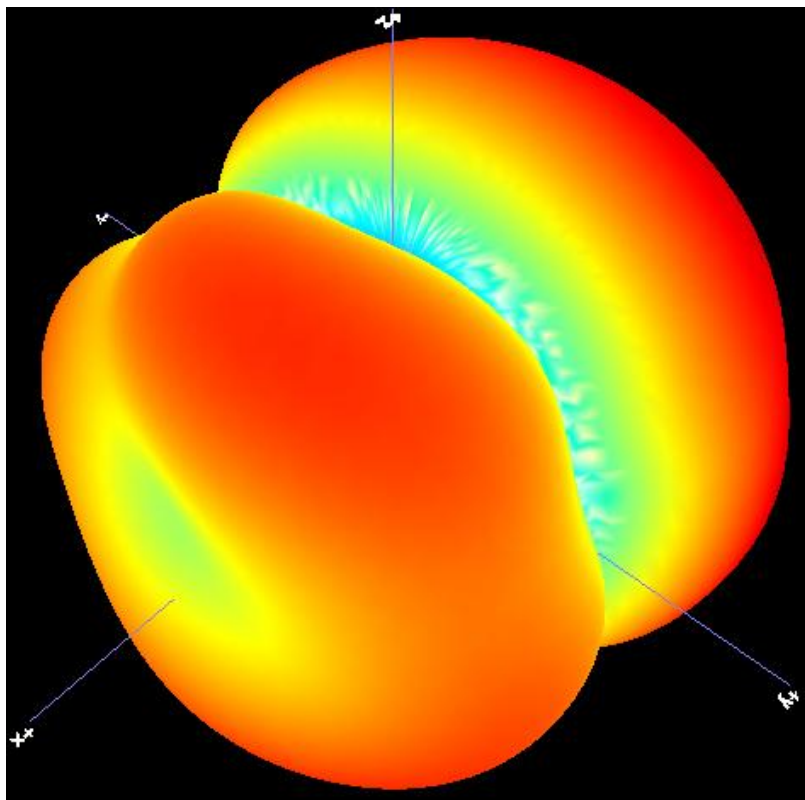


2402MHz



2440MHz

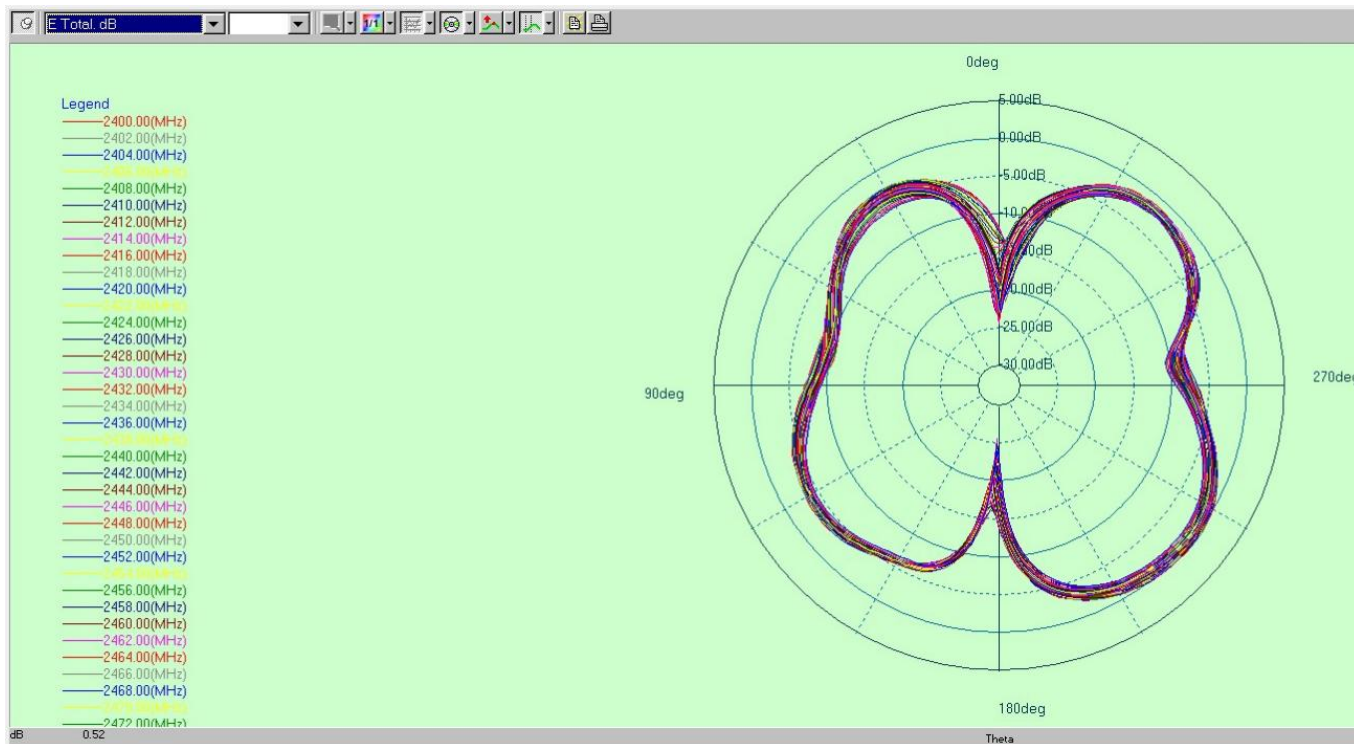




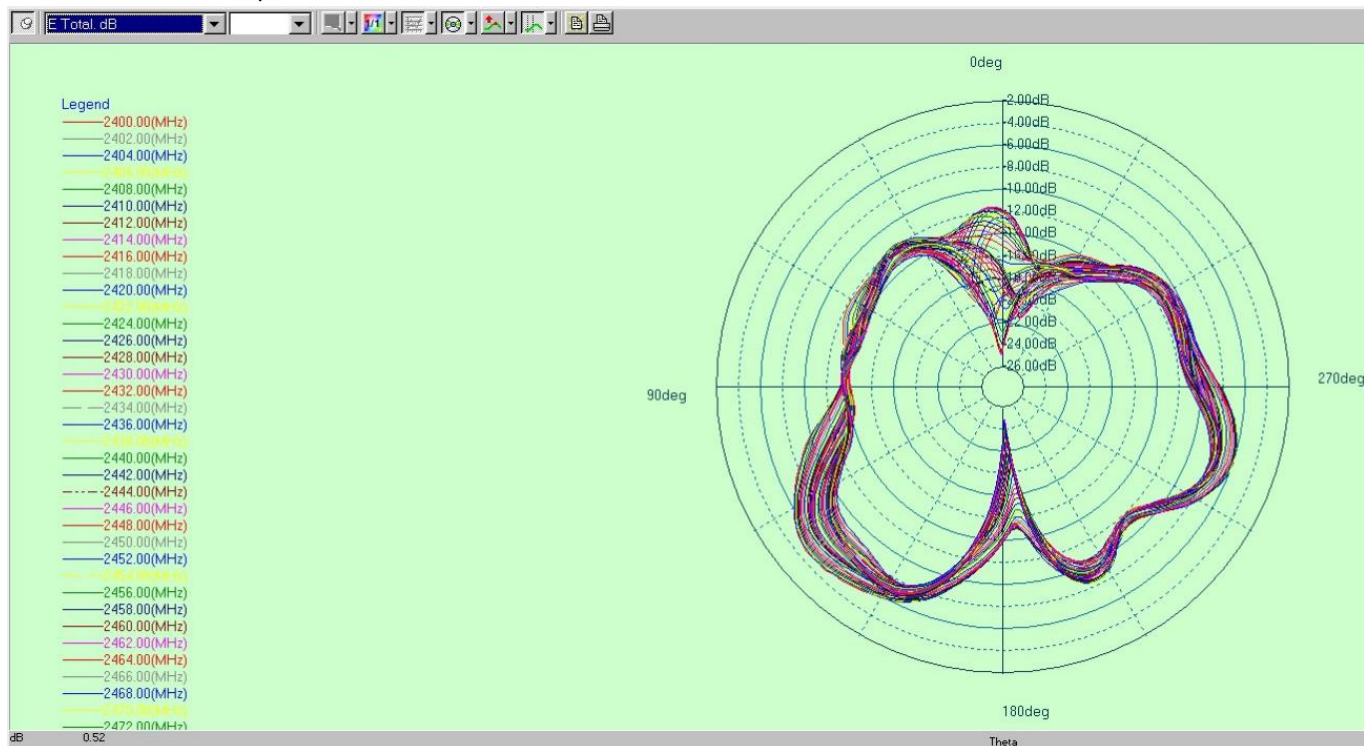
2480MHz

### 3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane,  $\phi=90^\circ$



(3) H, XY plane,  $\theta=90^\circ$

