

Antenna Coding: ANT-BBNCNC20008  
Antenna Type: PCB onboard Antenna  
Model of the DUT: MBS01  
Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

### 1、Technical Specification

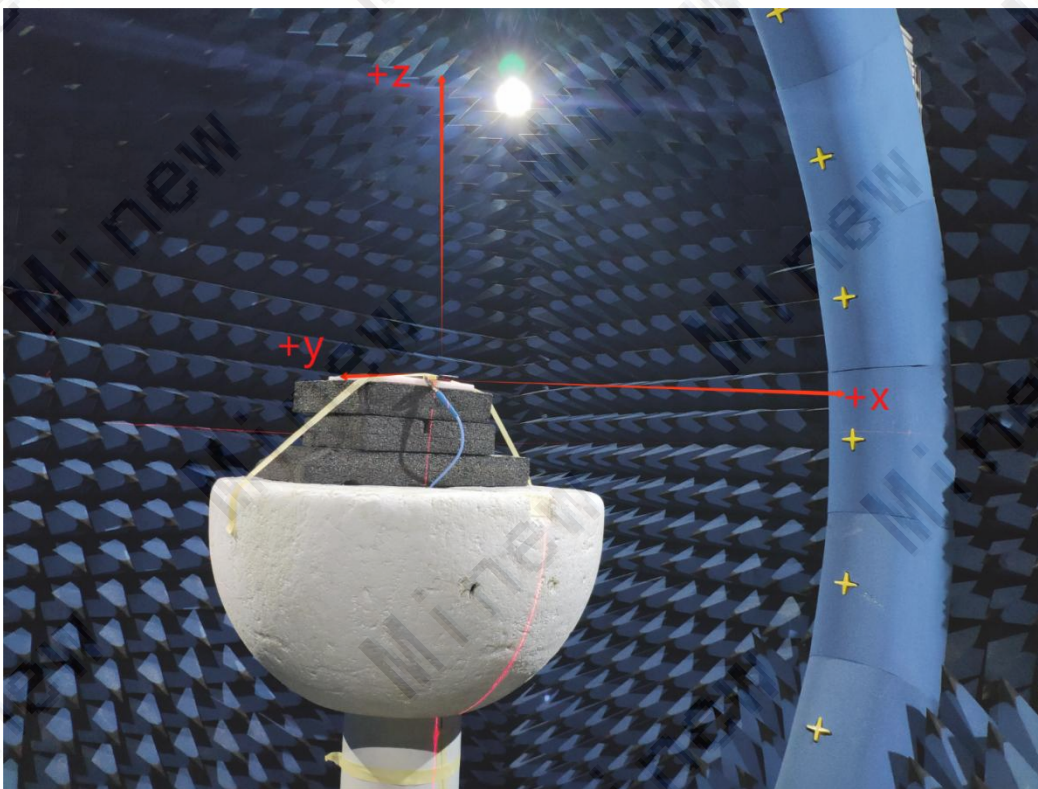
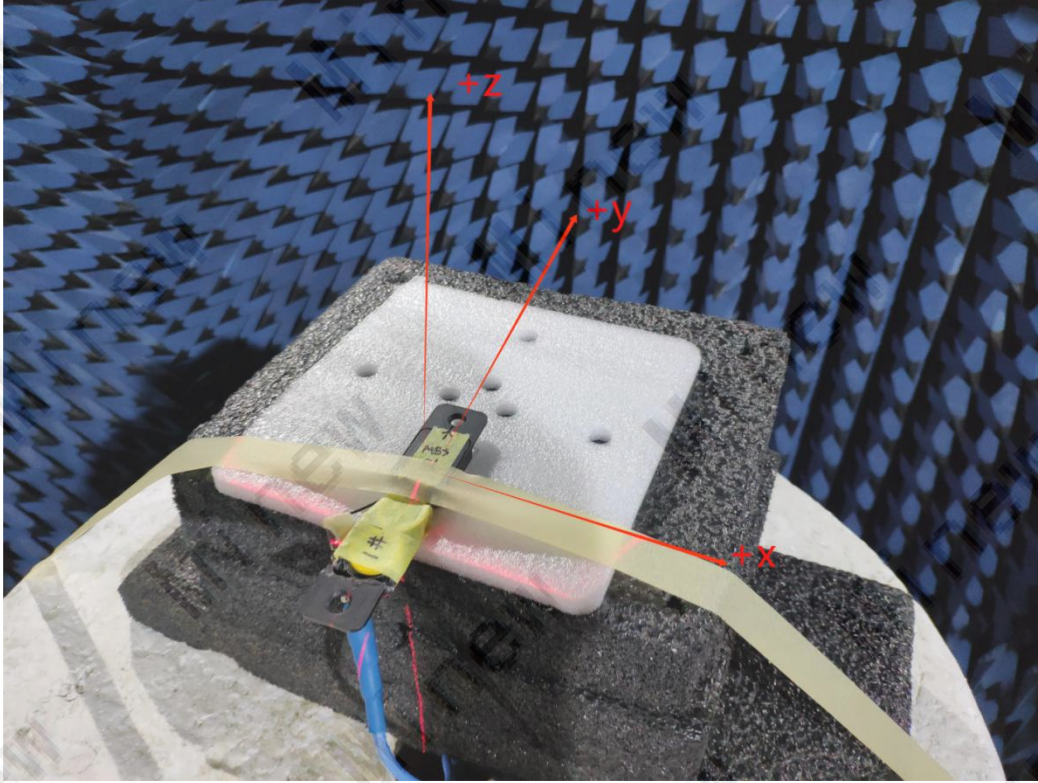
Electrical Specifications	
Frequency Range (MHz)	2400-2480
Input Impedance ( $\Omega$ )	50
Return Loss (dB)	<-10
VSWR	<2
Peak Gain (dBi)	3.39
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	16.5*5.99
Radiator	Cuprum

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



### 3、 The result of the test

#### 3.1 Test Environment

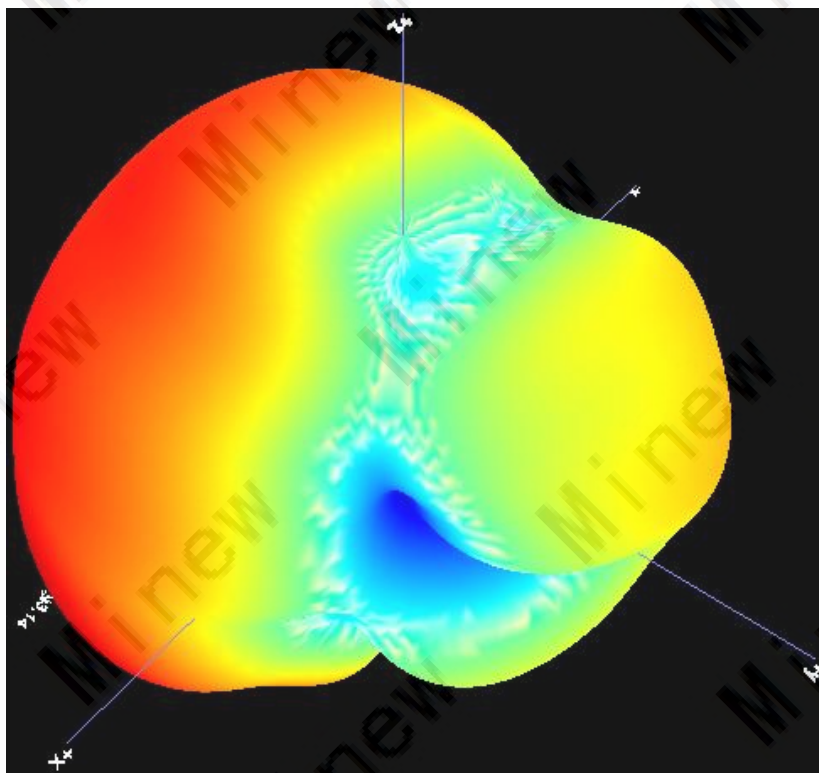




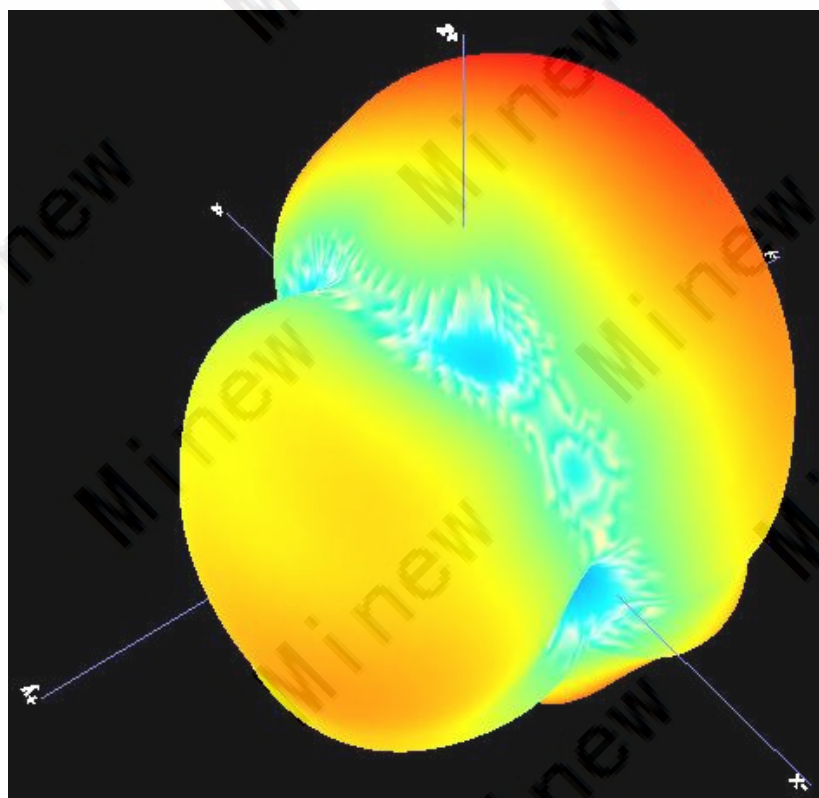
### 3.2 Gain and Efficiency

EUT型号 备注	MBS01 1#		
Frequency	Gain (dBi)	Efficiency(%)	Peak Gain
2400MHz	3.18	47%	3.39
2402MHz	3.14	47%	
2404MHz	3.06	46%	
2406MHz	2.94	45%	
2408MHz	2.86	44%	
2410MHz	2.80	44%	
2412MHz	2.72	43%	
2414MHz	2.66	42%	
2416MHz	2.71	42%	
2418MHz	2.72	42%	
2420MHz	2.71	42%	
2422MHz	2.74	43%	
2424MHz	2.82	44%	
2426MHz	3.06	45%	
2428MHz	3.11	46%	
2430MHz	3.18	46%	
2432MHz	3.25	47%	
2434MHz	3.31	47%	
2436MHz	3.28	47%	
2438MHz	3.25	47%	
2440MHz	3.25	46%	
2442MHz	3.22	46%	
2444MHz	3.16	45%	
2446MHz	3.16	45%	
2448MHz	3.13	44%	
2450MHz	3.12	44%	
2452MHz	3.10	44%	
2454MHz	3.07	44%	
2456MHz	3.13	44%	
2458MHz	3.19	44%	
2460MHz	3.23	45%	
2462MHz	3.27	45%	
2464MHz	3.33	46%	
2466MHz	3.35	47%	
2468MHz	3.37	47%	
2470MHz	3.37	47%	
2472MHz	3.37	47%	
2474MHz	3.39	47%	
2476MHz	3.37	47%	
2478MHz	3.30	47%	
2480MHz	3.25	46%	

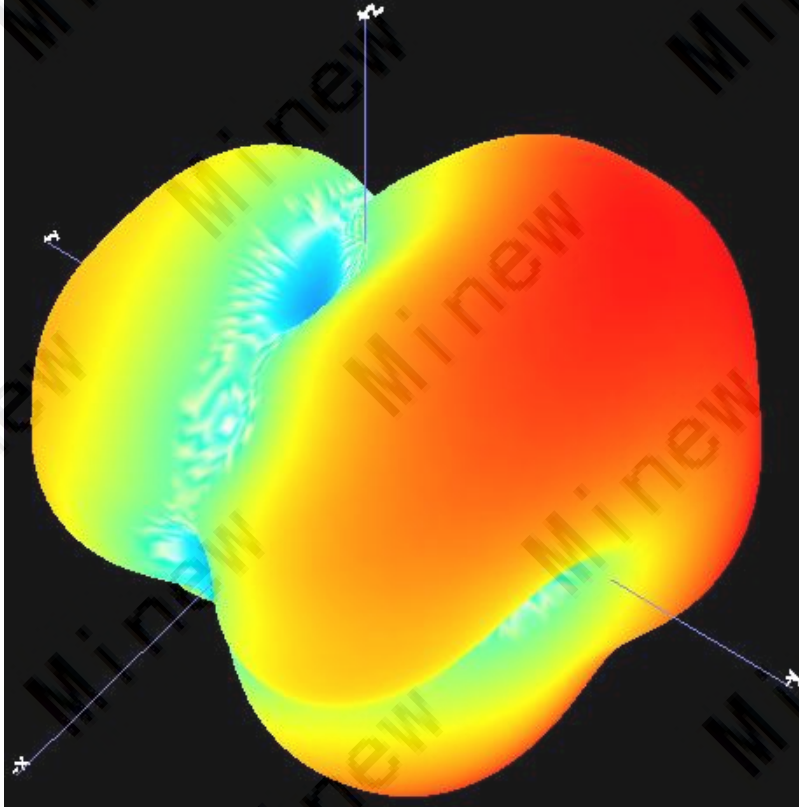
3.3 3D Polar Plot



2402MHz



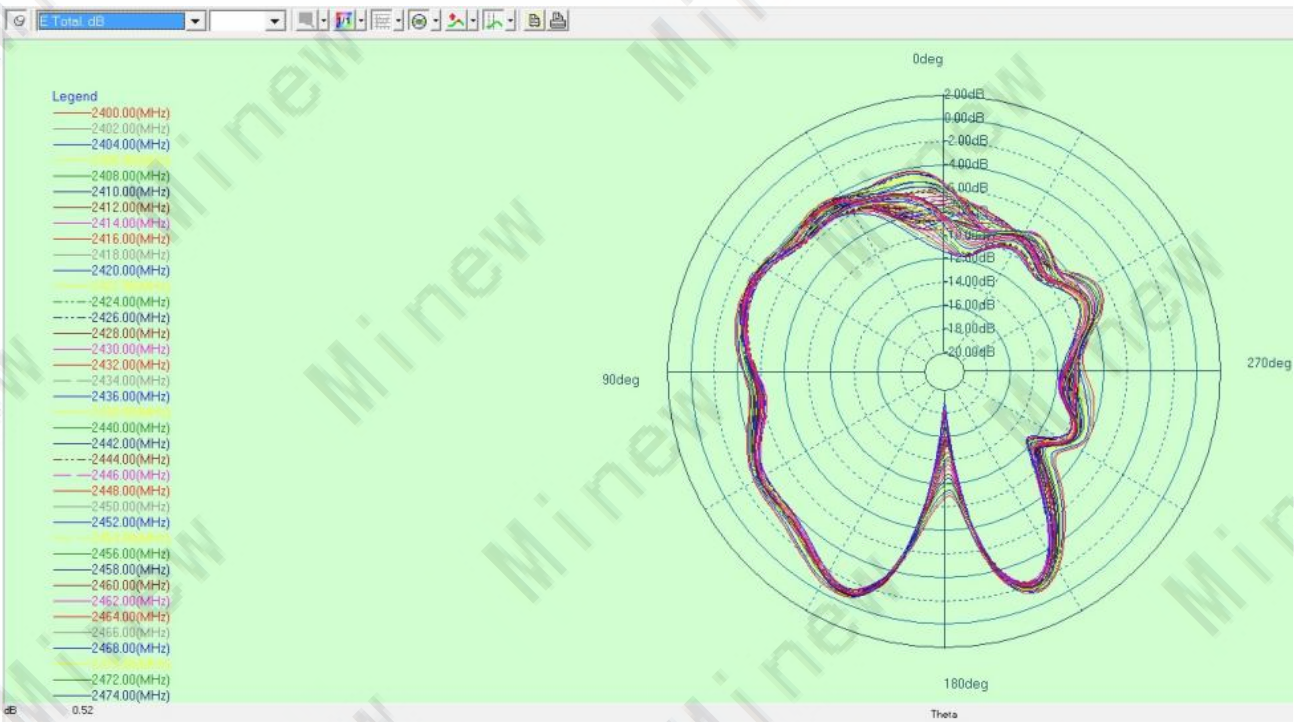
2440MHz



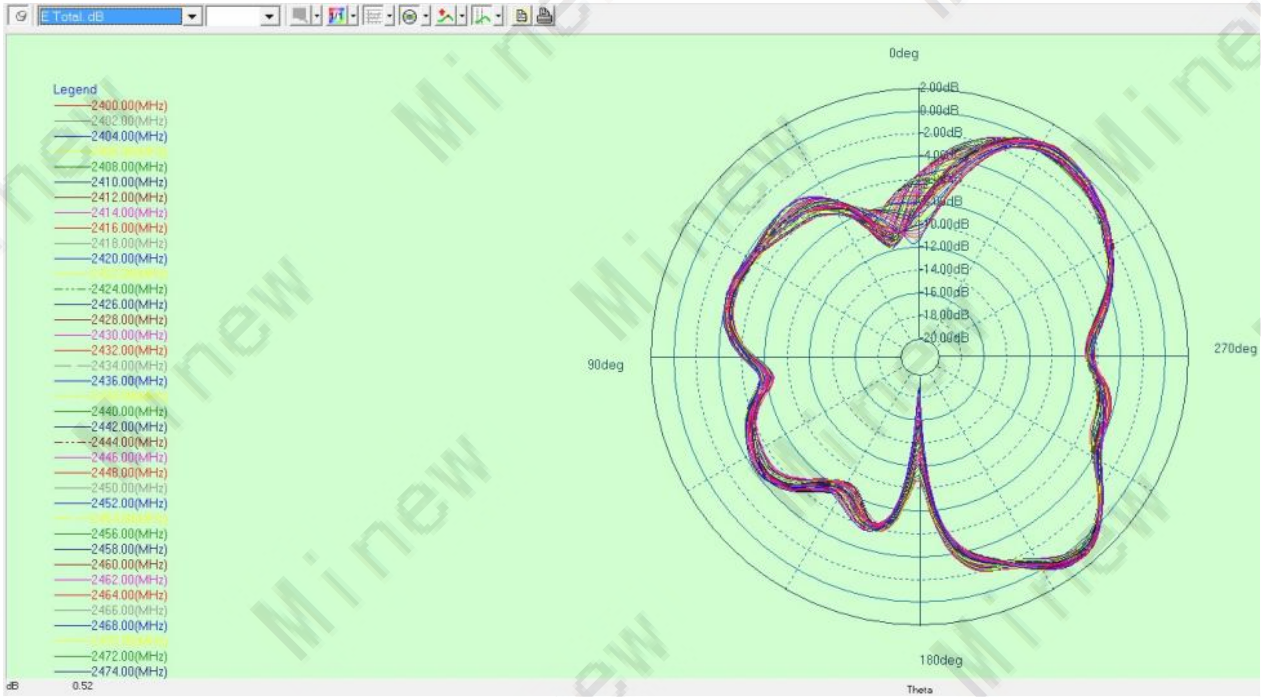
2480MHz

### 3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane, phi=90°



(3) H, XY plane, theta=90°

