

Antenna Coding: ANT-BBNCNC24021

Antenna Type: PCB onboard Antenna

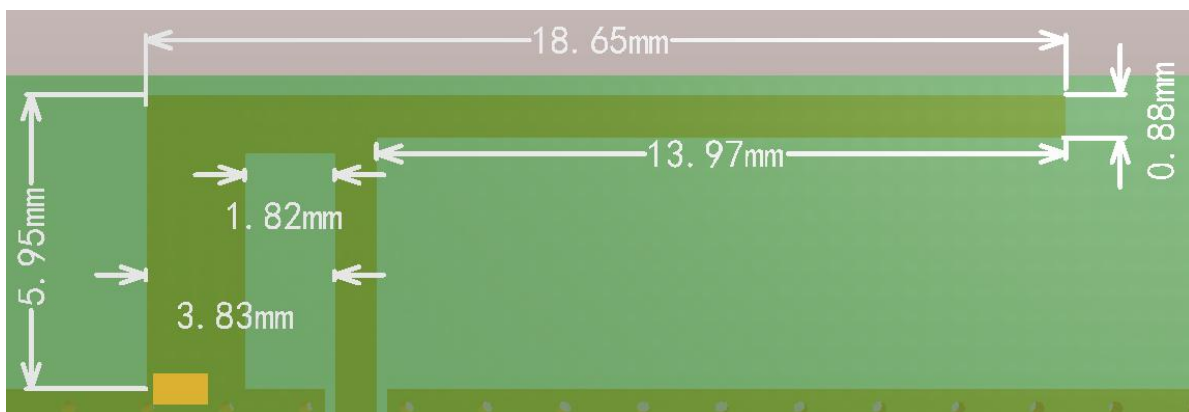
Model of the DUT: SE-420R

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

1、Technical Specification

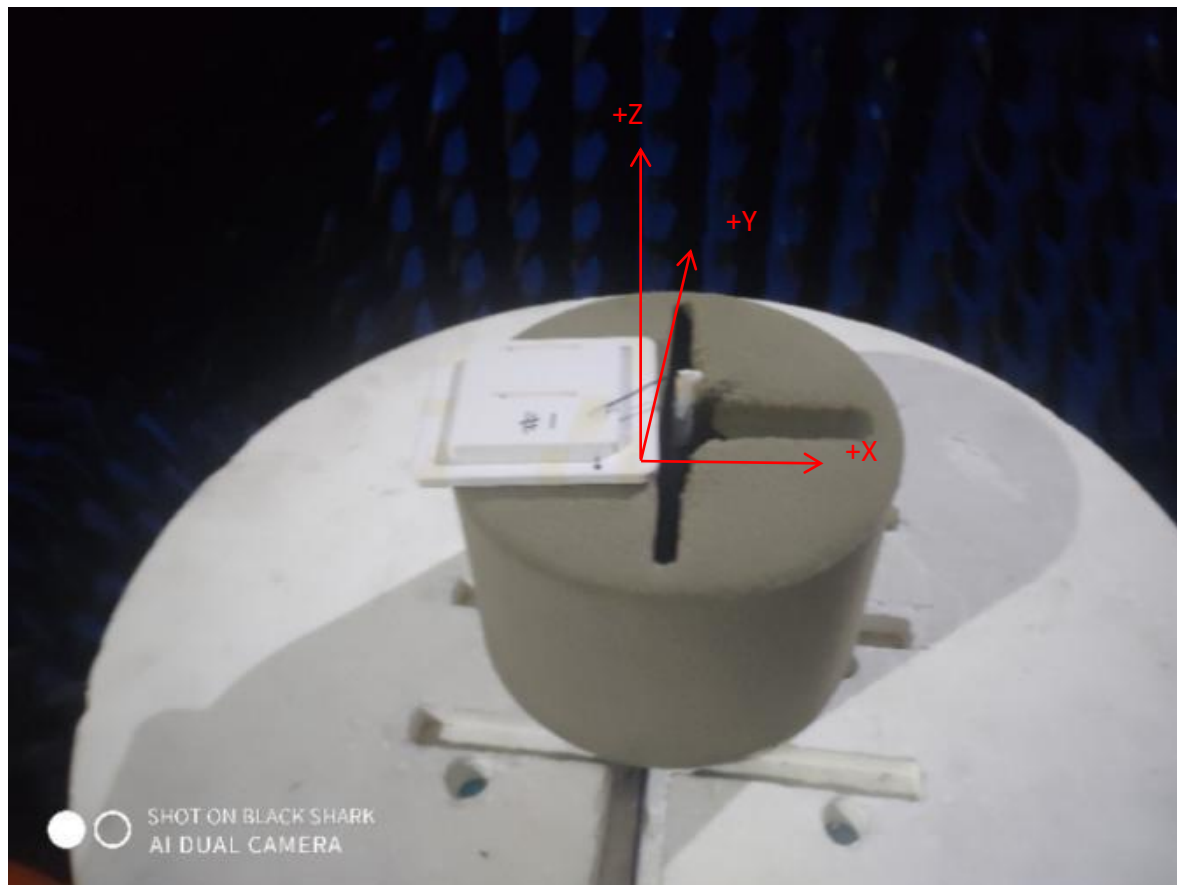
Electrical Specifications	
Frequency Range (MHz)	2400-2480
Input Impedance (Ω)	50
Return Loss (dB)	<-10
VSWR	<2
Peak Gain (dBi)	2.41
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	18.7*6mm
Radiator	Cuprum

2、The shape and size of the antenna



3、 The result of the test

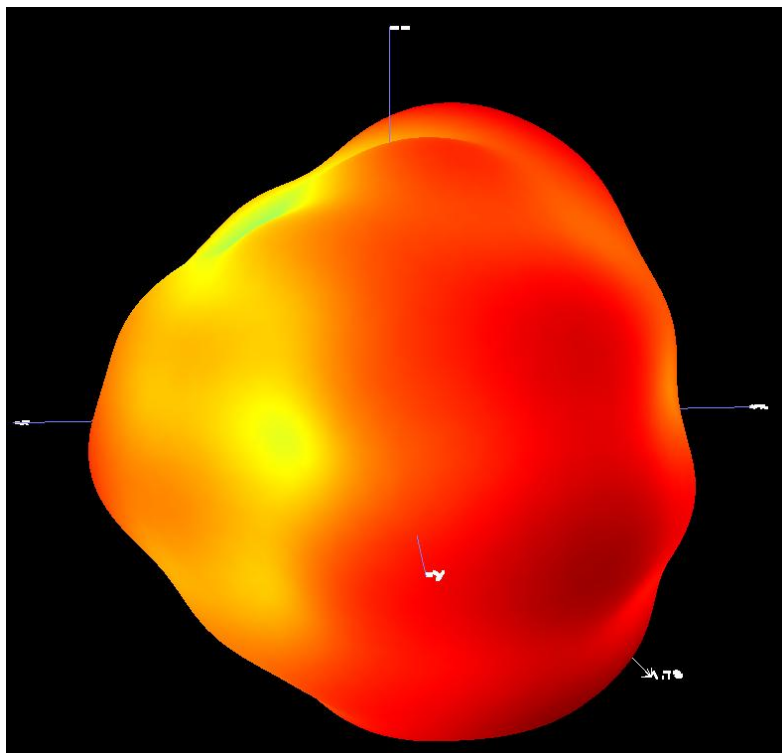
3.1 Test Environment



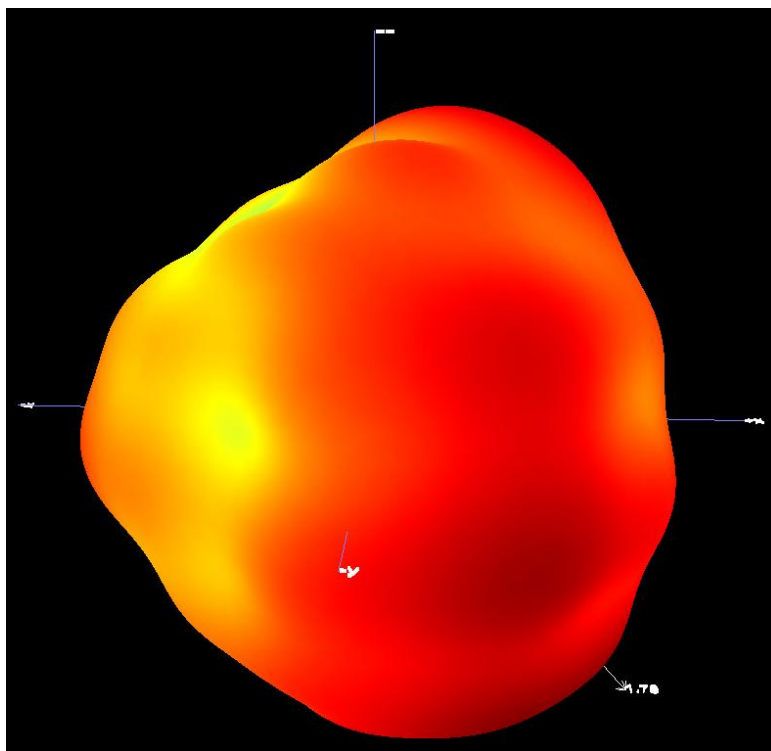
3.2 Gain and Efficiency

Frequency	Efficiency(%)	Efficiency(dB)	Gain(dBi)
2400	59.73%	-2.24	2.07
2402	59.61%	-2.25	1.94
2404	59.24%	-2.27	1.93
2406	58.68%	-2.31	2.09
2408	58.62%	-2.32	2.21
2410	59.25%	-2.27	2.24
2412	60.06%	-2.21	2.23
2414	60.28%	-2.20	2.22
2416	59.97%	-2.22	2.36
2418	59.71%	-2.24	2.41
2420	59.66%	-2.24	2.35
2422	59.78%	-2.23	2.22
2424	59.68%	-2.24	2.23
2426	59.56%	-2.25	2.31
2428	60.16%	-2.21	2.31
2430	61.44%	-2.12	2.24
2432	61.94%	-2.08	2.16
2434	61.76%	-2.09	2.15
2436	61.13%	-2.14	2.13
2438	60.77%	-2.16	1.99
2440	60.64%	-2.17	1.86
2442	60.26%	-2.20	1.76
2444	59.51%	-2.25	1.78
2446	59.01%	-2.29	1.78
2448	59.31%	-2.27	1.79
2450	59.96%	-2.22	1.78
2452	60.59%	-2.18	1.73
2454	60.59%	-2.18	1.78
2456	60.60%	-2.18	1.79
2458	60.96%	-2.15	1.84
2460	61.30%	-2.13	1.81
2462	61.24%	-2.13	1.81
2464	60.87%	-2.16	1.78
2466	61.13%	-2.14	1.79
2468	61.85%	-2.09	1.75
2470	62.67%	-2.03	1.79
2472	62.13%	-2.07	1.73
2474	61.51%	-2.11	1.72
2476	61.26%	-2.13	1.66
2478	61.51%	-2.11	1.64
2480	61.63%	-2.10	1.67

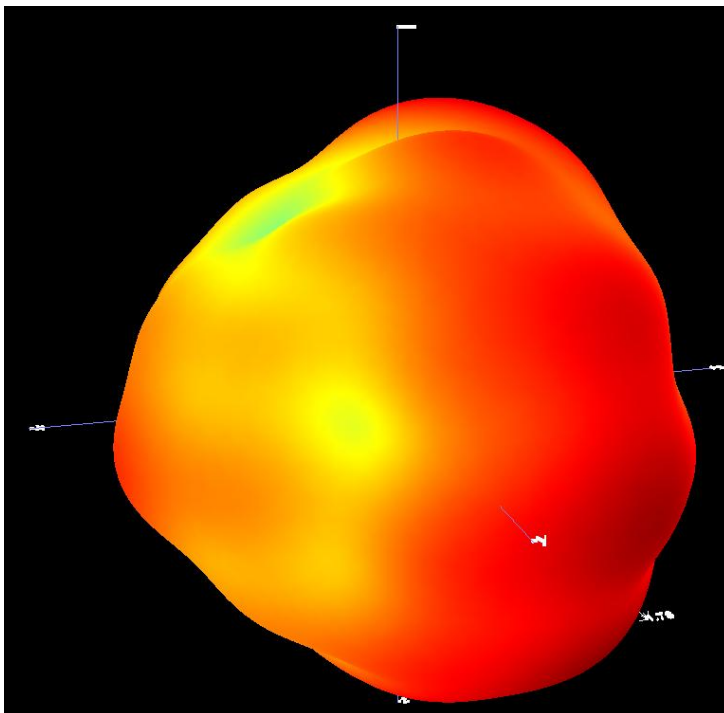
3.3 3D Polar Plot



2402MHz



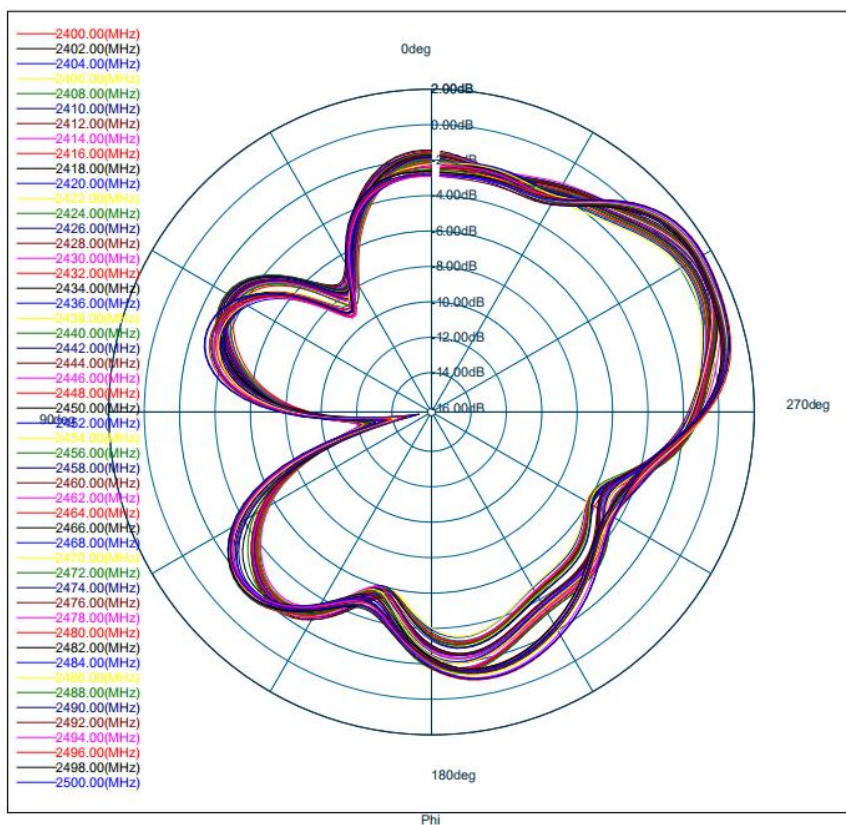
2440MHz



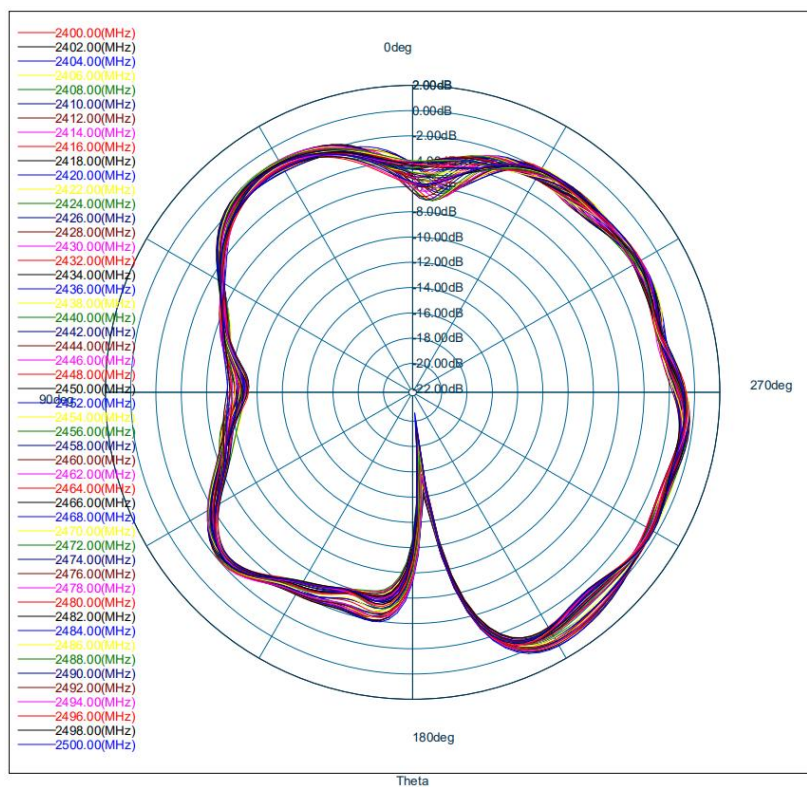
2480MHz

3.4 2D Radiation Pattern

(1) E1, XZ Plane, $\phi=0$



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



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

