



深圳市安特通讯科技有限公司

ANT Communication Technology (Shenzhen) Co., LTD.

# WT11 Antenna Test Report

**Tester : Hu Lin**

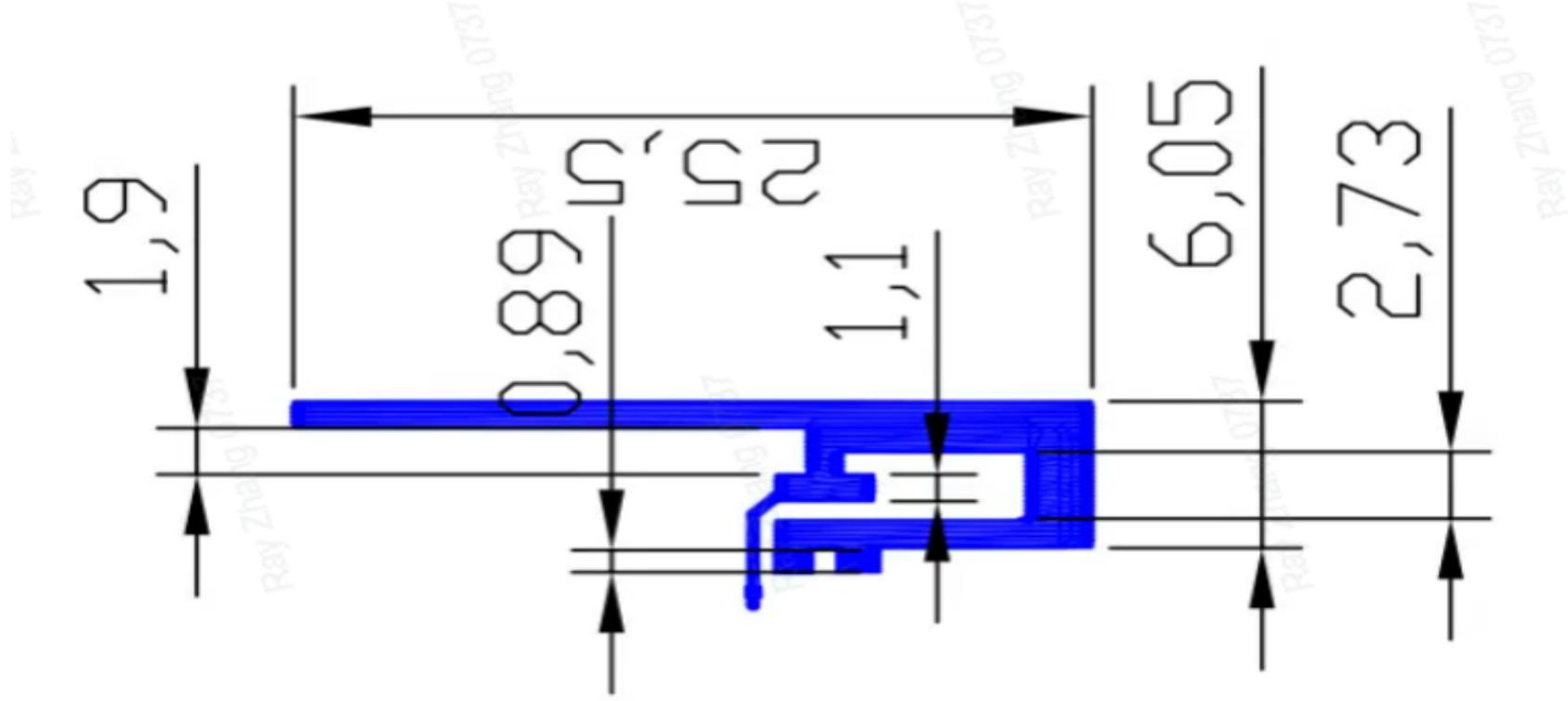
**Approval : Liu Feng**

**Company Address:701,BuildingA,NO.10 Jiangfu Road, xinzhuang  
Community, Matian street, Guangming District, Shenzhen**

**Date : 2024 / 12 / 24**



# 一、Antenna size





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## 二、Product specifications and technical parameters:

Telecommunication energy parameters	
Frequency range	2400~2500MHz
Input impedance	50 $\Omega$
Standing Poppy	$\leq 2.2$
Max gain	-1.54 dBi
efficiency	>20 %
Polarization mode	vertical
Radiation direction	omnidirectional
Mechanical parameters	
Antenna size	/
Coaxial line <u>trpy</u>	/
<u>Trpe</u> of connector	/
Pulling force	/
Smoke experiment	/
Environmental parameters	
Working temperature	/



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## 三、Testing equipment

1. network analyzer

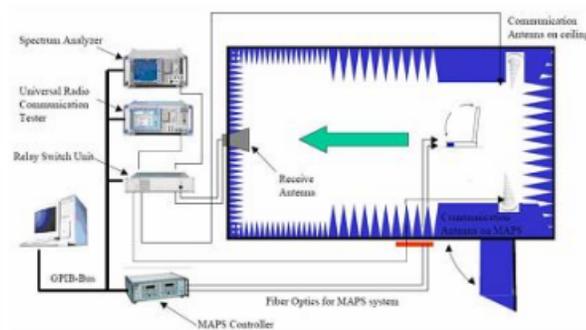
Agilent E5071C

2. Comprehensive test instrument

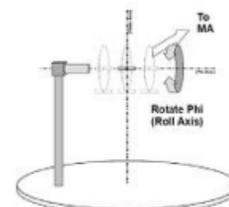
CNV500 Agilent 8960

3. 3D testing system

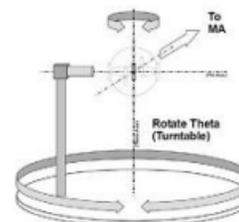
SATIHO-16 XH-24



(Testing by 3D anechoic chamber)



Phi axis test



Theta axis test

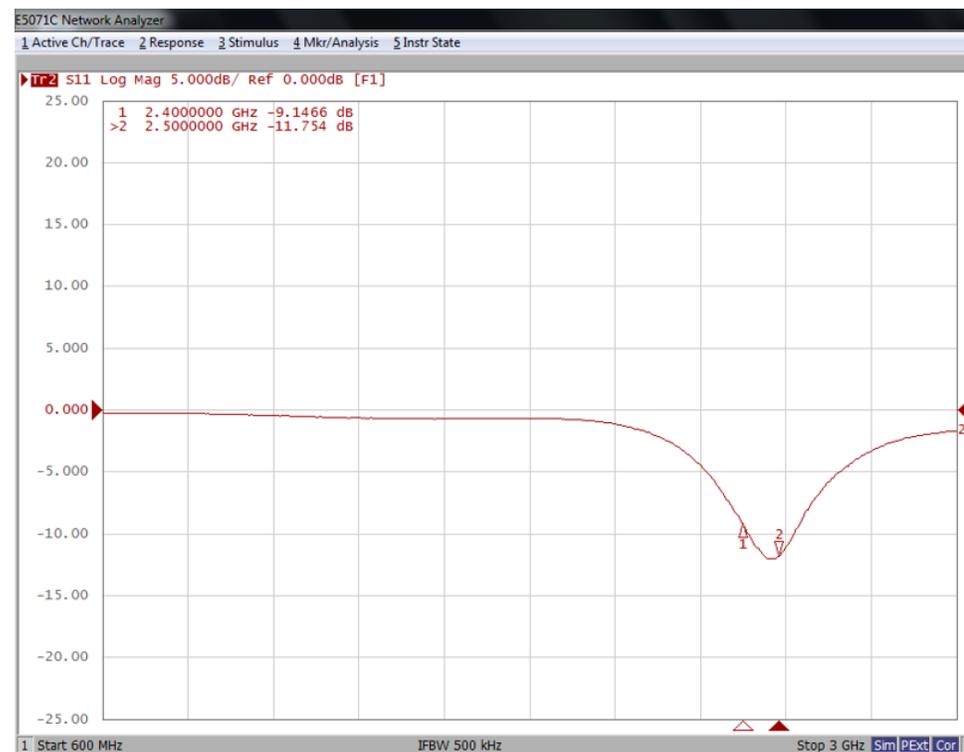


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## 四、Antenna testing parameters

### S11Parameter





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## Passive efficiency of antenna

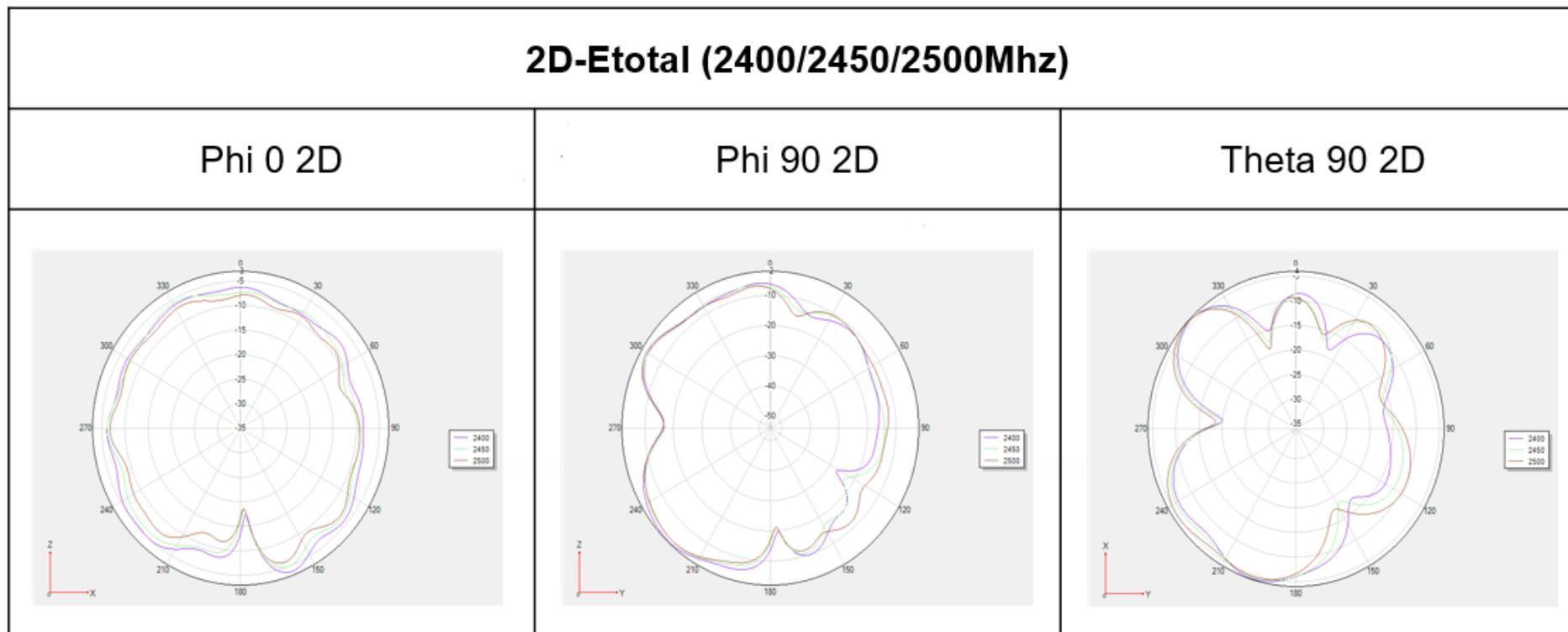
Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-5.45	28.51	-1.54
2410	-5.95	25.41	-2.16
2420	-5.54	27.93	-1.61
2430	-6.07	24.72	-2.48
2440	-5.34	29.24	-1.82
2450	-5.46	28.44	-2.41
2460	-5.55	27.86	-2.29
2470	-5.95	25.41	-2.24
2480	-5.86	25.94	-2.5
2490	-5.99	25.18	-1.92
2500	-6.11	24.49	-2.68



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## 2D antenna diagram

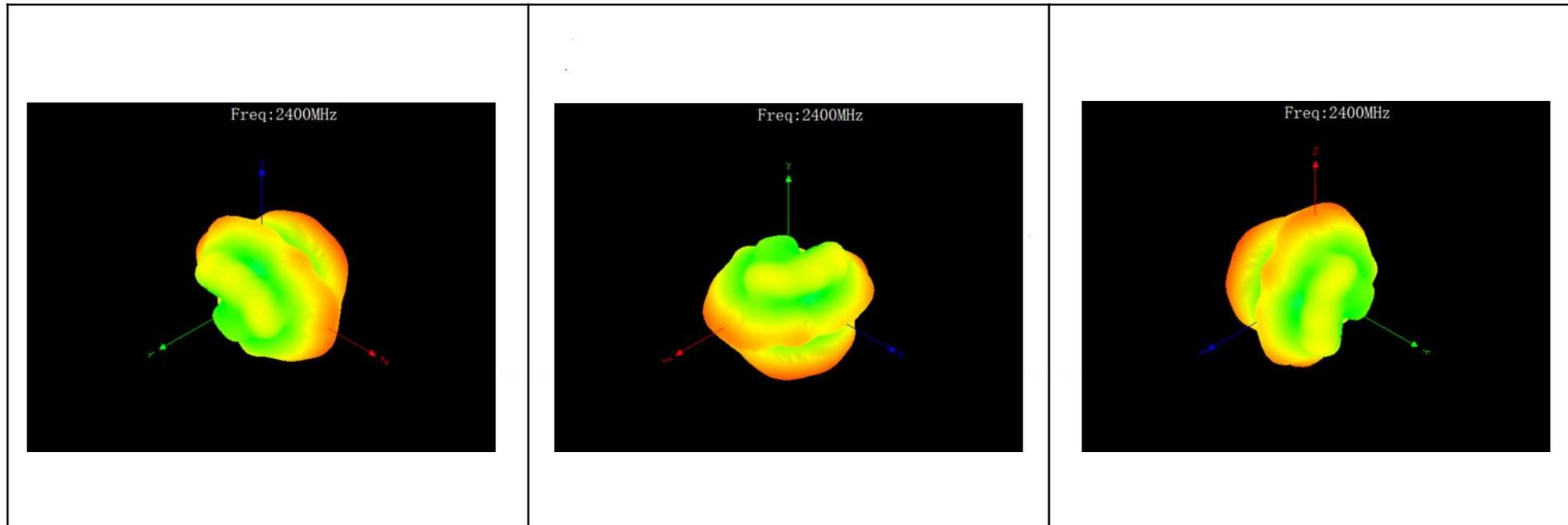




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## 3D image of antenna

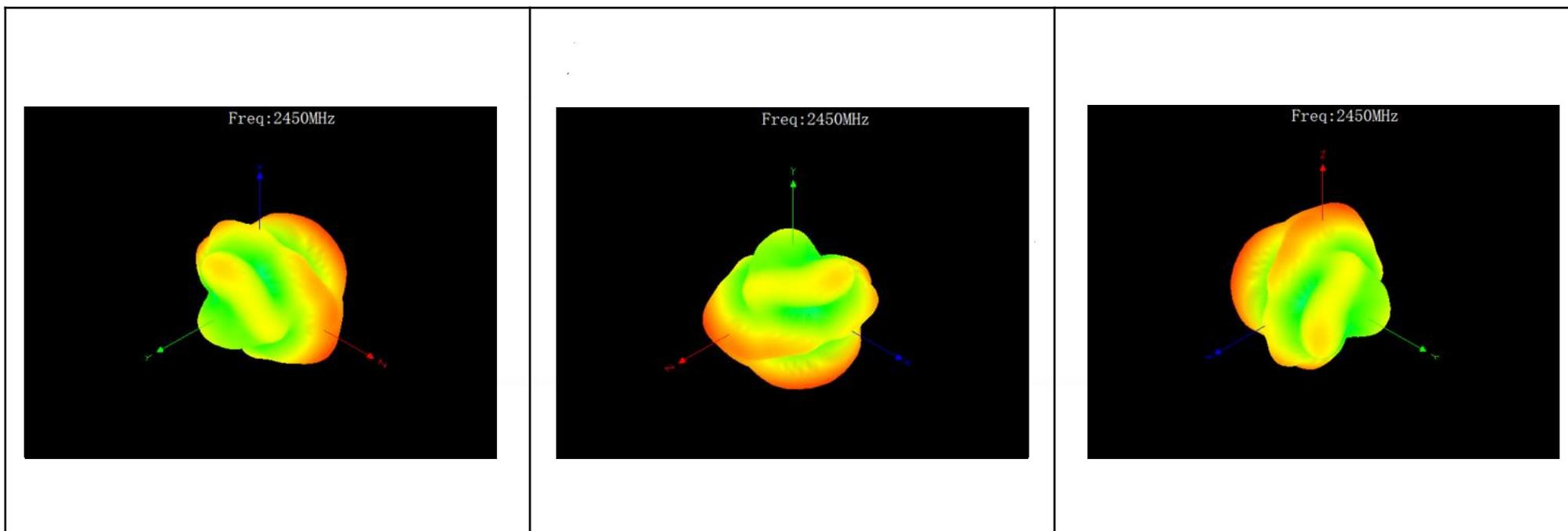




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## 3D image of antenna

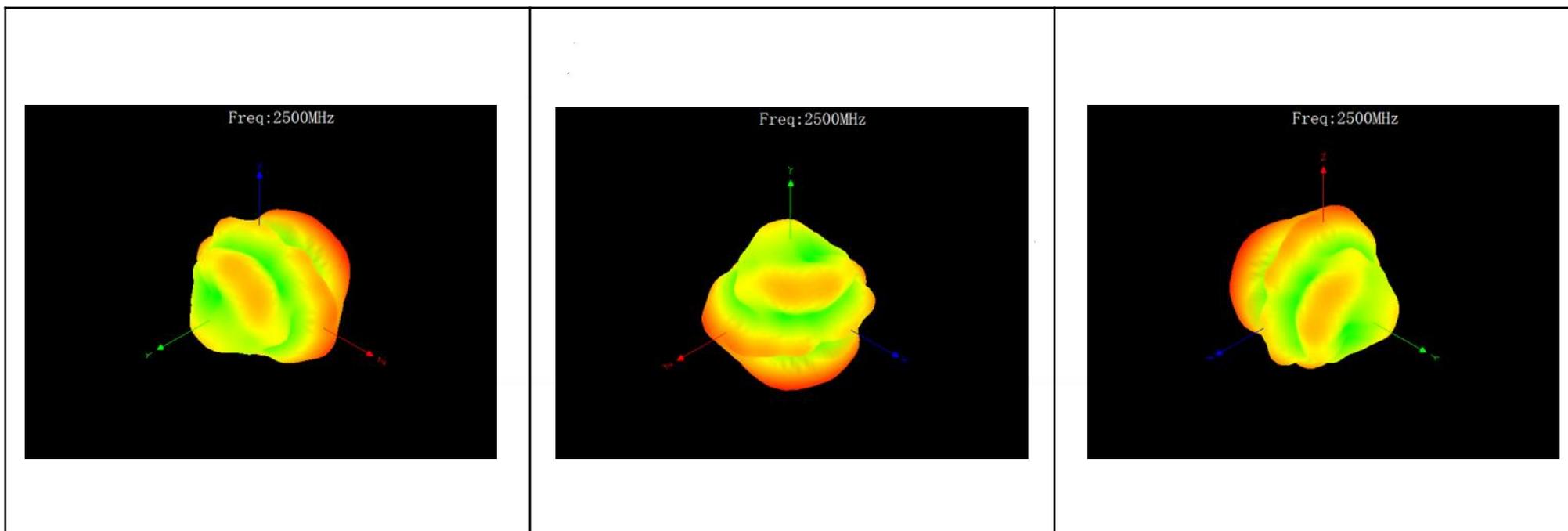




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## 3D image of antenna





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**THANK YOU!**