



深圳市安特通讯科技有限公司

ANT Communication Technology (Shenzhen) Co., LTD.  
address : 701, Building A, No. 10, Jiangfu Road, Xinzhuang Community,  
Matian Street, Guangming District, Shenzhen

**HUACHUANG TECHNOLOGY LTD**

## **Antenna Test Report**

**M/N:DB300**

**Tester : Hu Lin**  
**Date : 2025 / 8 / 13**



# 深圳市安特通讯科技有限公司

ANT Communication Technology (Shenzhen) Co., LTD.

**1. Device Profile**

**2. LORA Test**

**3. BT Test**



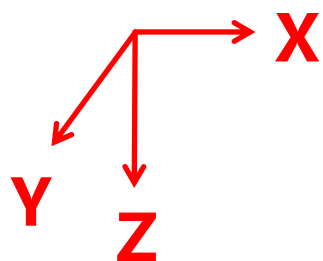
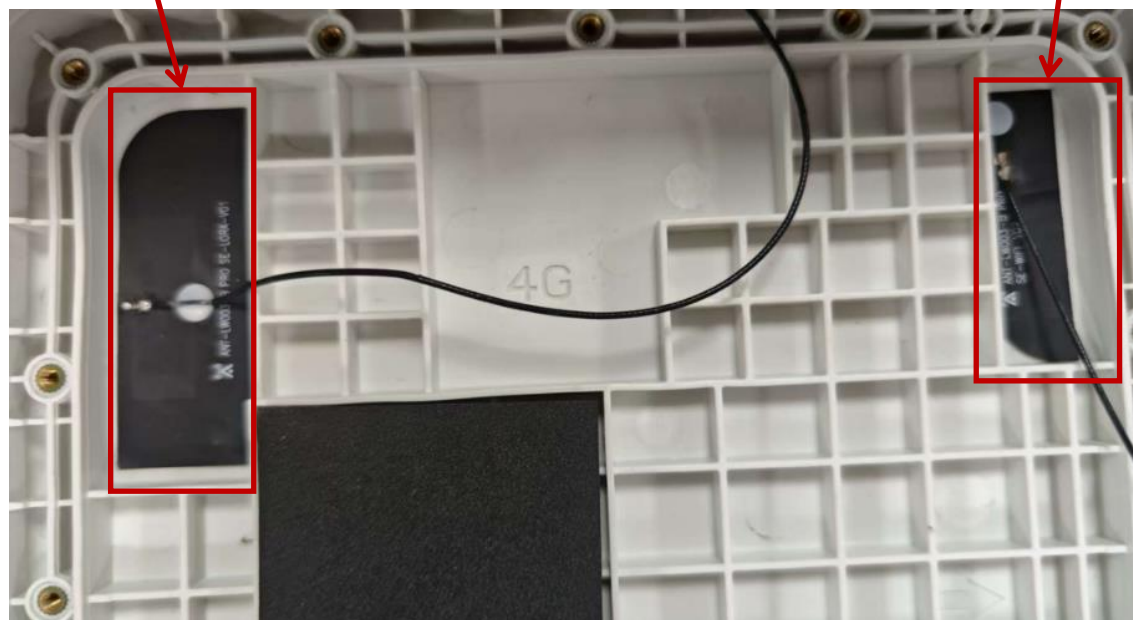
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ANT Communication Technology (Shenzhen) Co., LTD.

## 1. Device Profile

LORA Antenna

BT Antenna



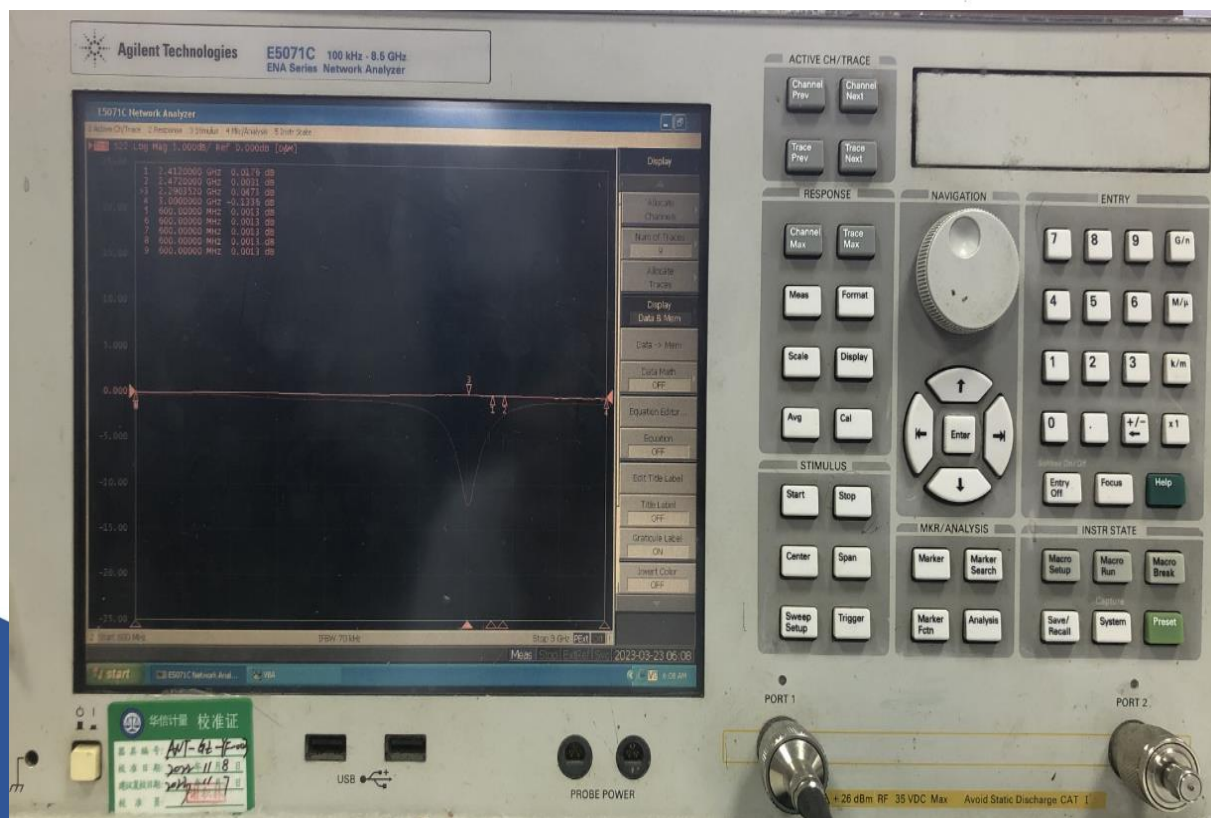


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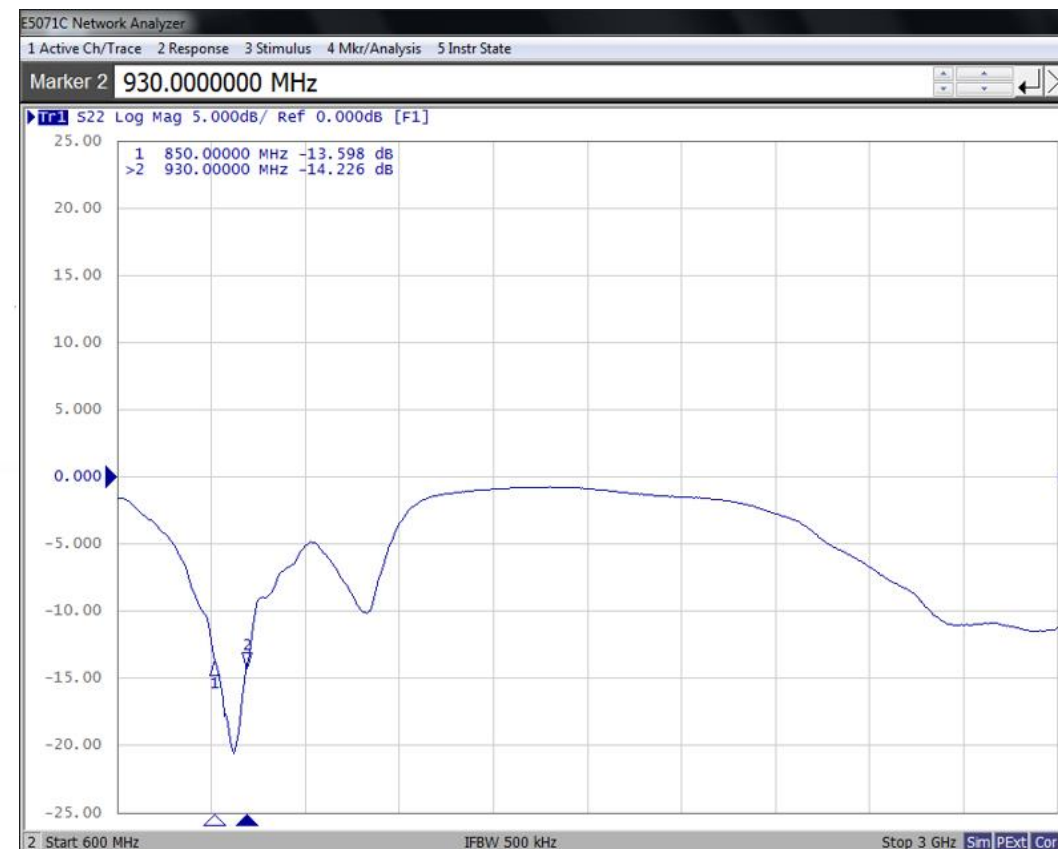
ANT Communication Technology (Shenzhen) Co., LTD.

## 2. LORA Antenna Test

Agilent E5071C



S-Parameter Test

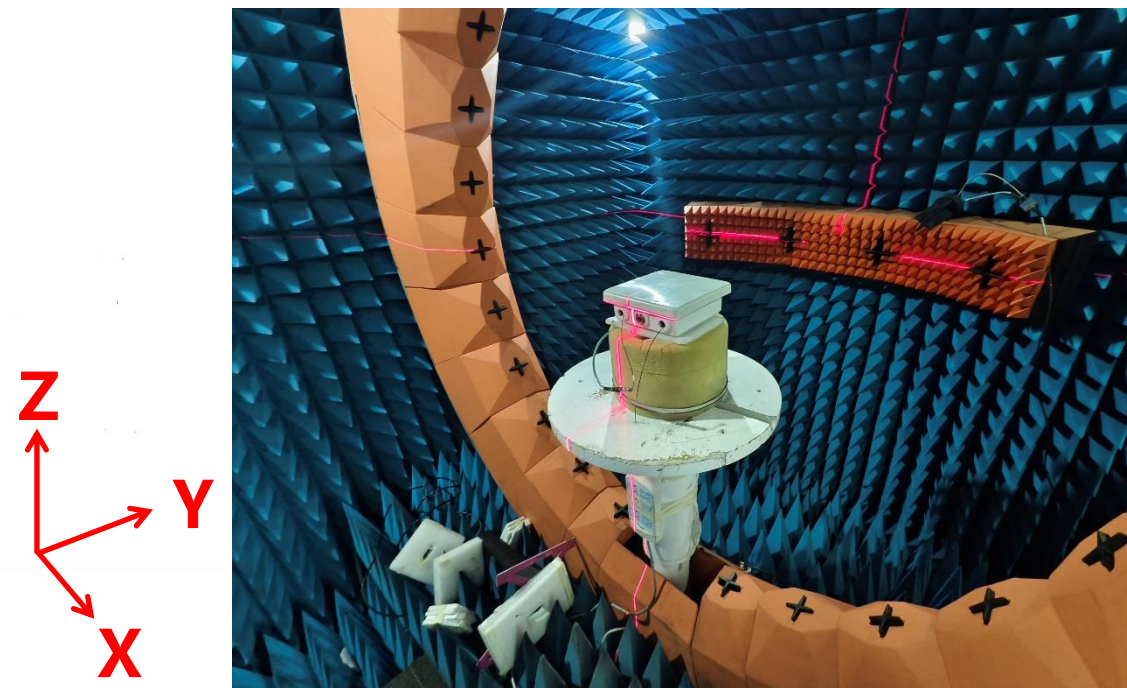
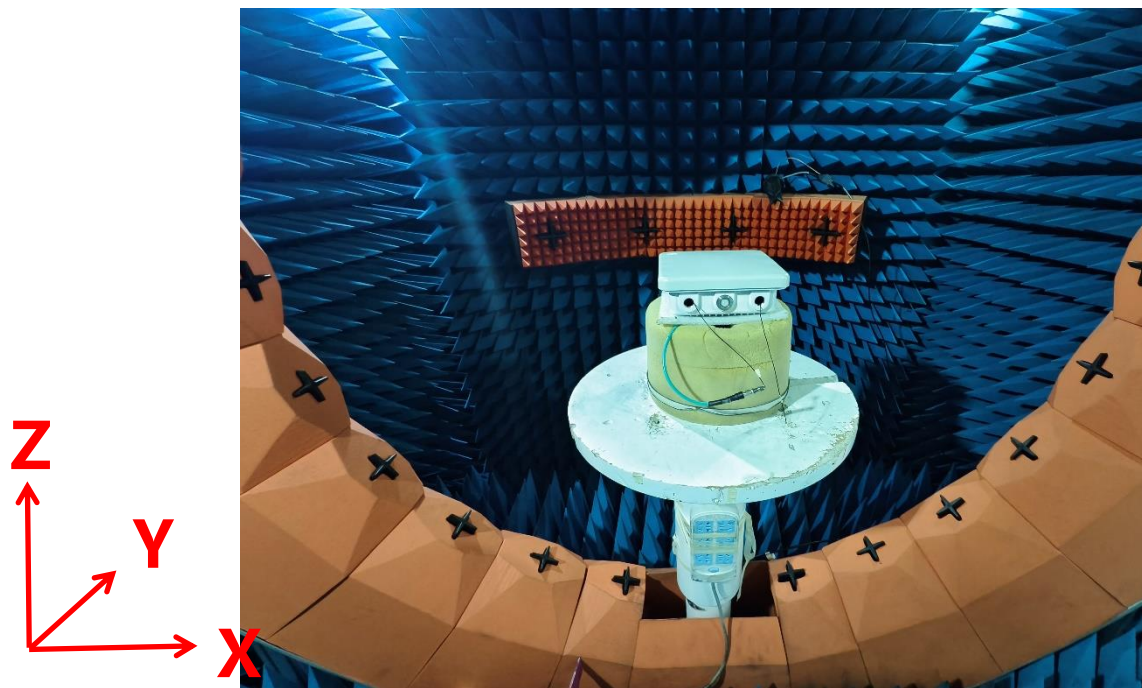




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## Antenna Passive Test





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| Passive Test  |               |              |             |
|---------------|---------------|--------------|-------------|
| Frequency/Mhz | Efficiency/dB | Efficiency/% | MaxGain/dBi |
| 850           | -3.23         | 47.53        | 3.23        |
| 860           | -3.07         | 49.32        | 3.45        |
| 870           | -3.4          | 45.71        | 2.61        |
| 880           | -3.13         | 48.64        | 2.73        |
| 890           | -3.98         | 39.99        | 1.71        |
| 900           | -3.99         | 39.9         | 2.51        |
| 910           | -4.35         | 36.73        | 1.36        |
| 920           | -4.86         | 32.66        | 1.35        |
| 930           | -5.26         | 29.79        | 1.08        |

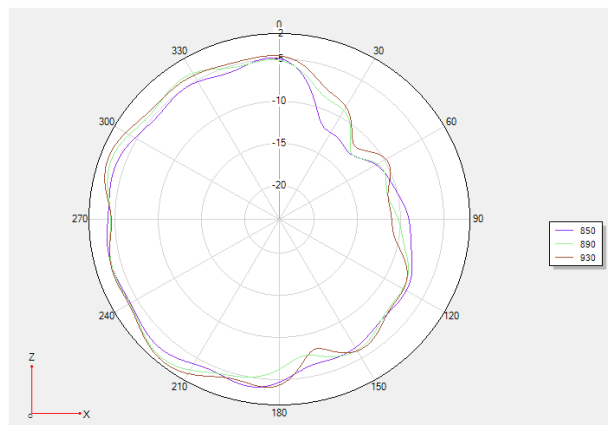


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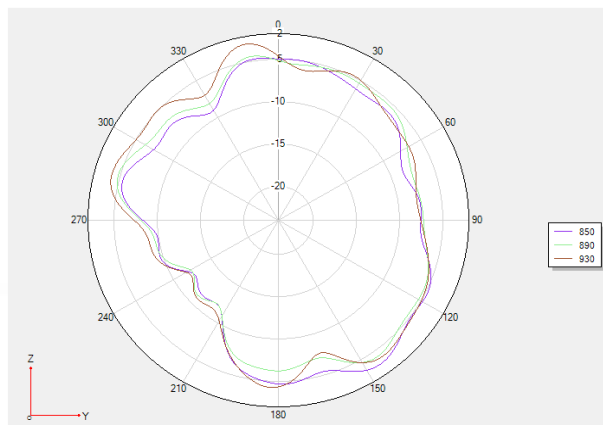
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## 2D-Etotal (850/890/930Mhz)

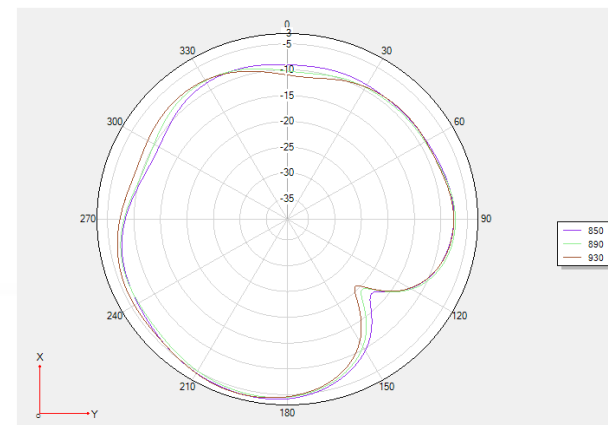
Phi 0 2D



Phi 90 2D



Theta 90 2D

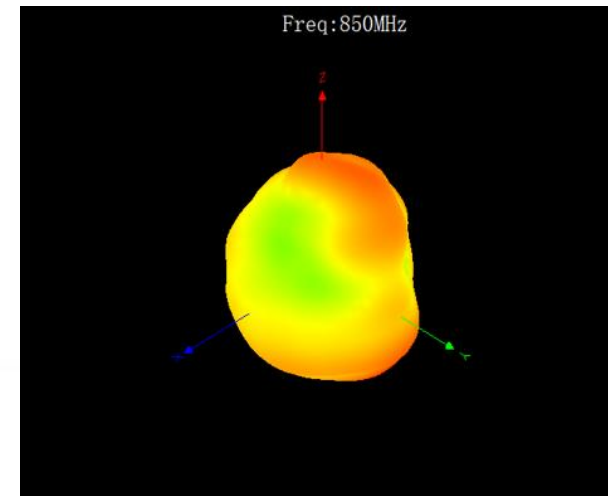
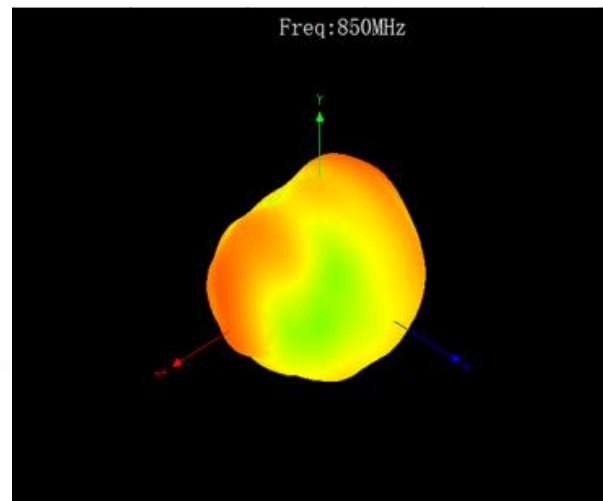
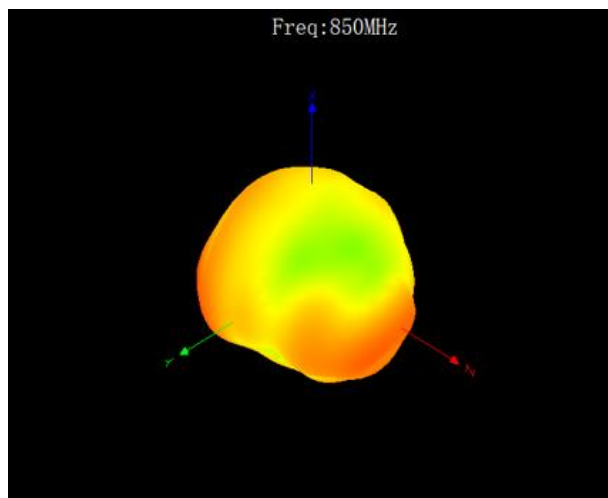




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## 3D-Etotal (850Mhz)

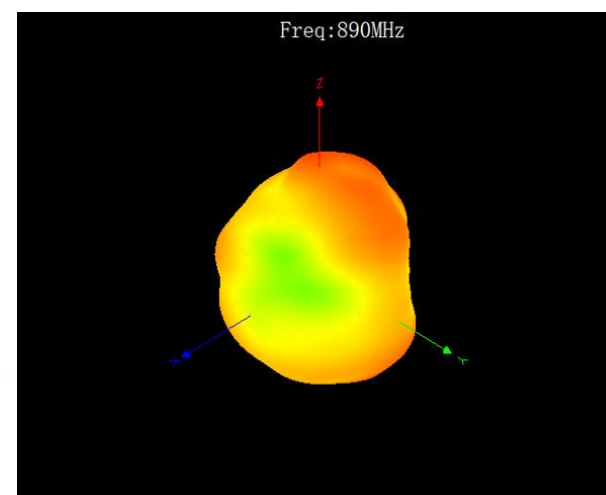
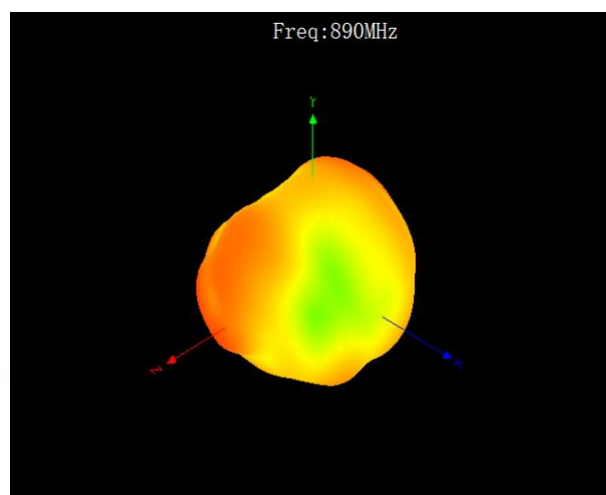
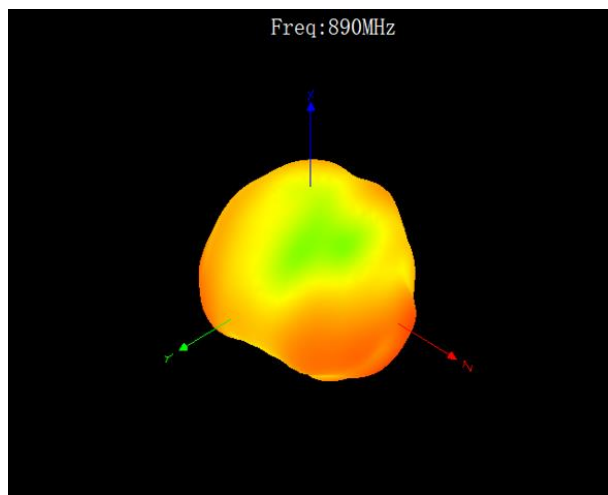




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## 3D-Etotal (890Mhz)

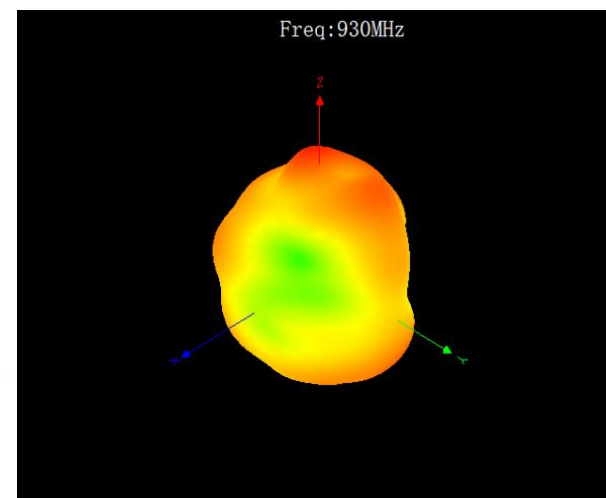
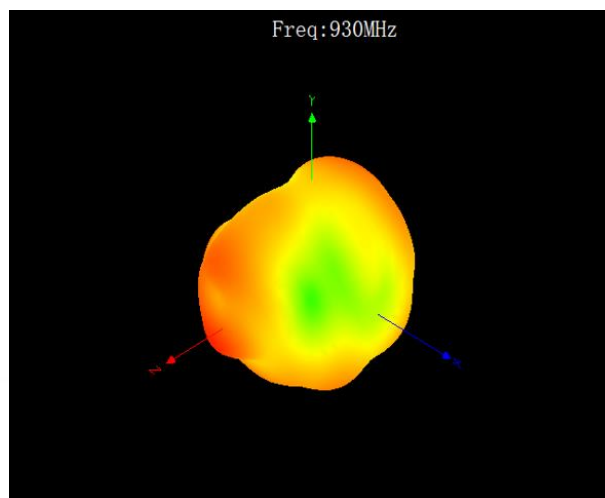
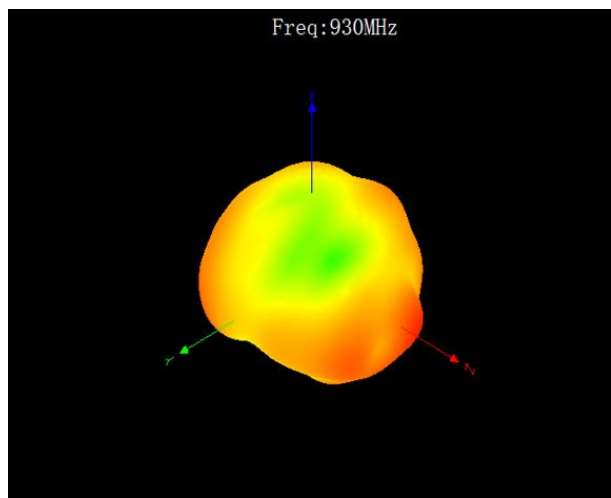




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ANT Communication Technology (Shenzhen) Co., LTD.

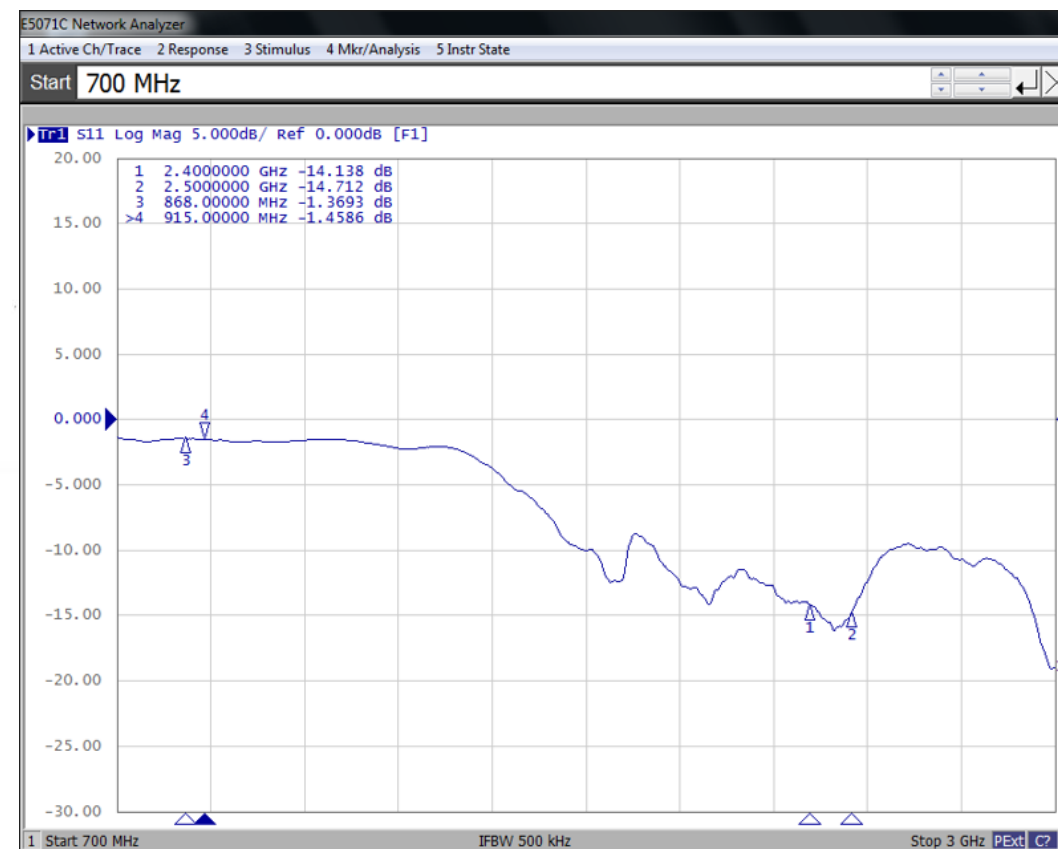
## 3D-Etotal (930Mhz)





### 3. BT Antenna Test

## S-Parameter Test

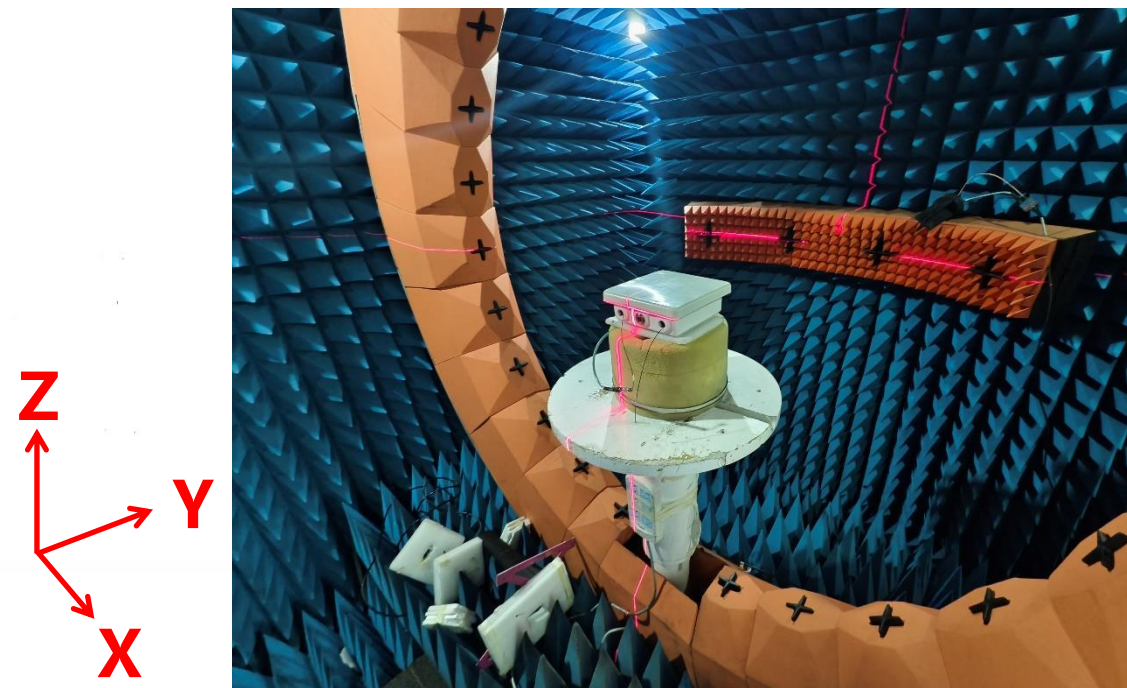
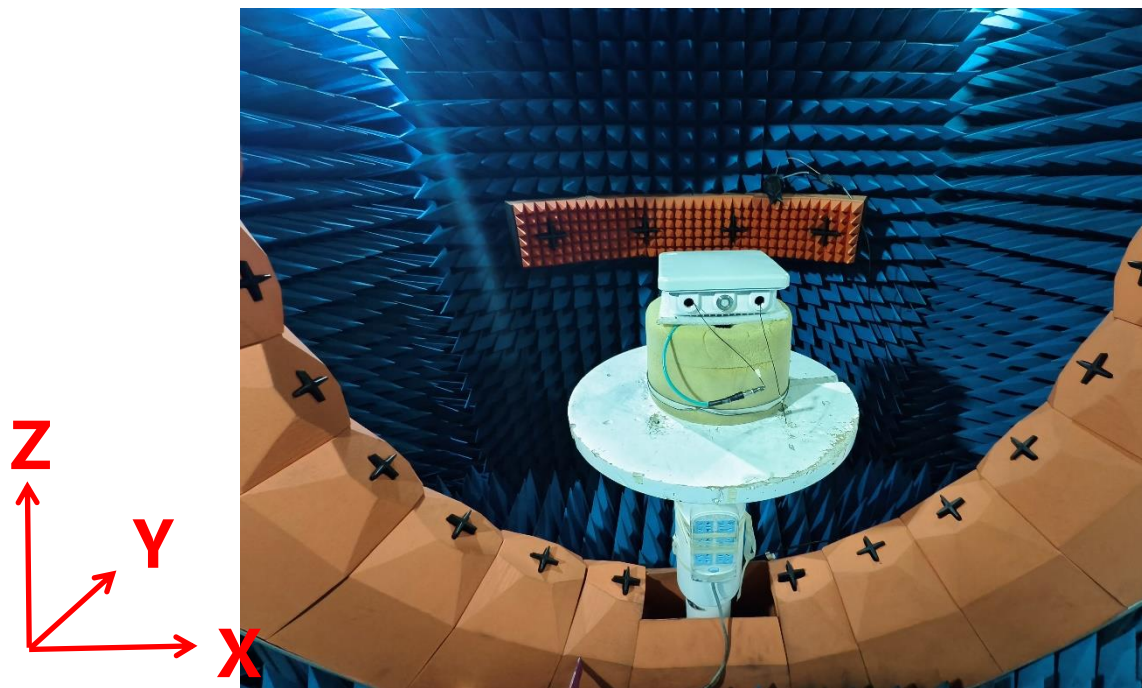




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ANT Communication Technology (Shenzhen) Co., LTD.

## Antenna Passive Test





# 深圳市安特通讯科技有限公司

ANT Communication Technology (Shenzhen) Co., LTD.

| Passive Test  |               |              |             |
|---------------|---------------|--------------|-------------|
| Frequency/Mhz | Efficiency/dB | Efficiency/% | MaxGain/dBi |
| 2400          | -4.42         | 36.14        | 3.45        |
| 2410          | -3.79         | 41.78        | 3.97        |
| 2420          | -4.79         | 33.19        | 3.28        |
| 2430          | -4.19         | 38.11        | 3.43        |
| 2440          | -4.43         | 36.06        | 3.04        |
| 2450          | -3.87         | 41.02        | 3.32        |
| 2460          | -4.42         | 36.14        | 3.17        |
| 2470          | -4.26         | 37.5         | 3.19        |
| 2480          | -4.29         | 37.24        | 3.07        |
| 2490          | -4.16         | 38.37        | 3.05        |
| 2500          | -4.36         | 36.64        | 3.04        |

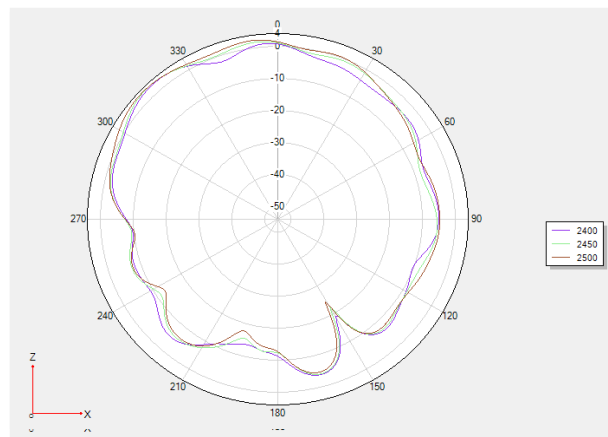


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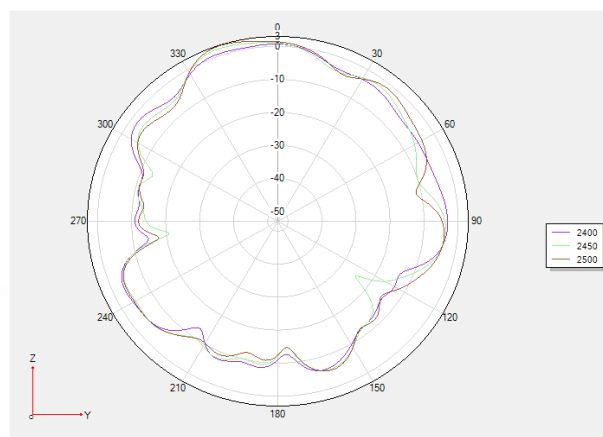
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## 2D-Etotal (2400/2450/2500Mhz)

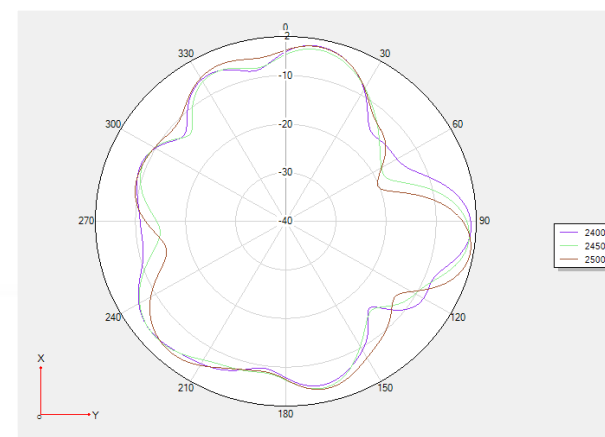
Phi 0 2D



Phi 90 2D



Theta 90 2D

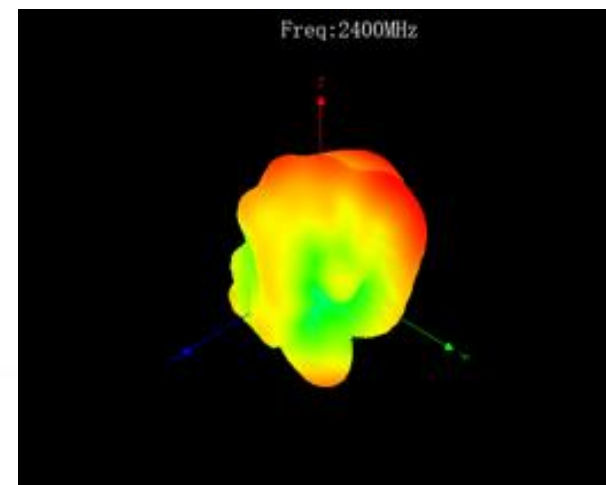
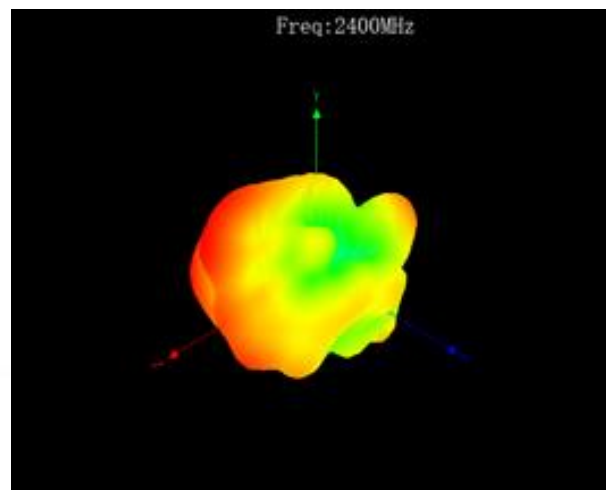
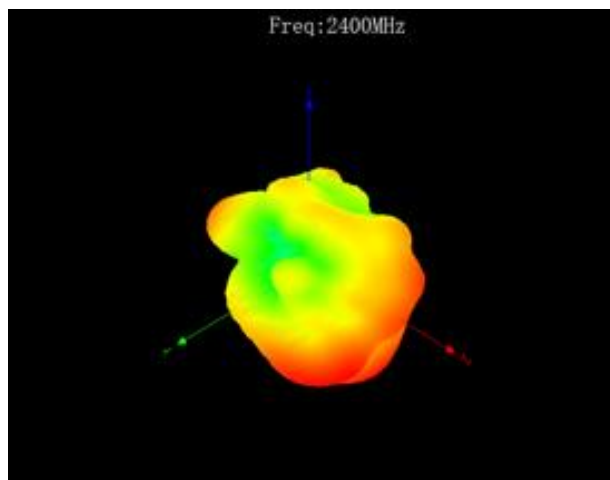




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## 3D-Etotal (2400Mhz)

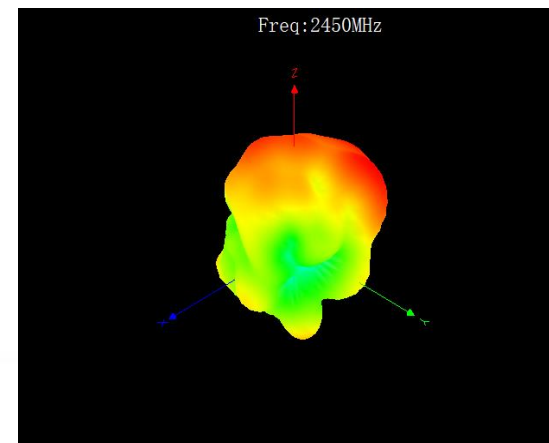
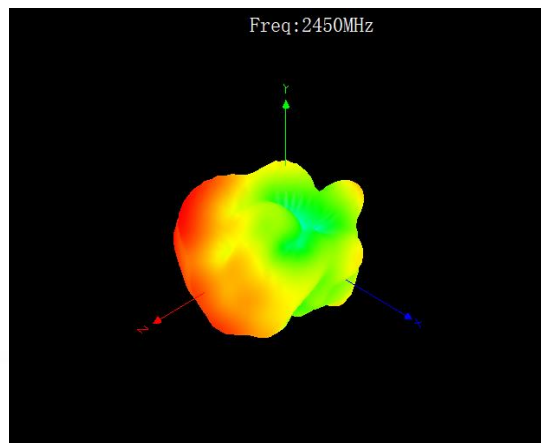
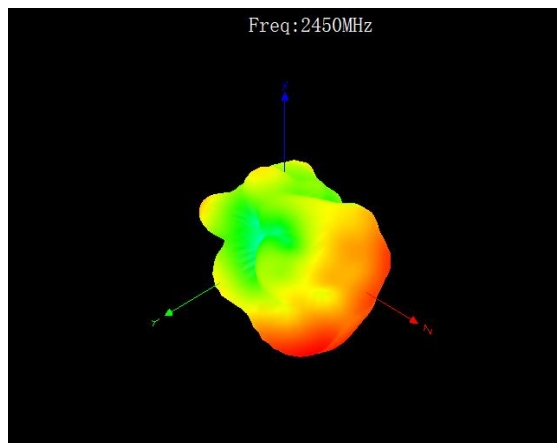




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## 3D-Etotal (2450Mhz)

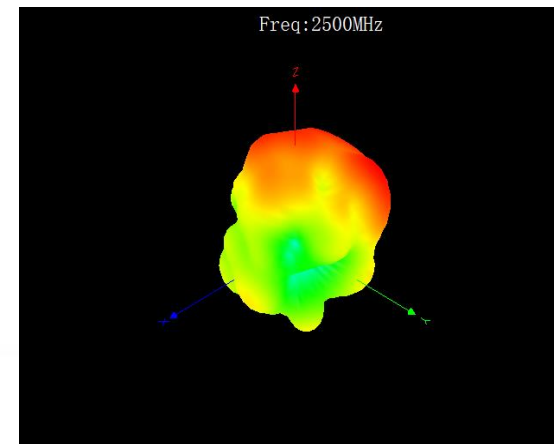
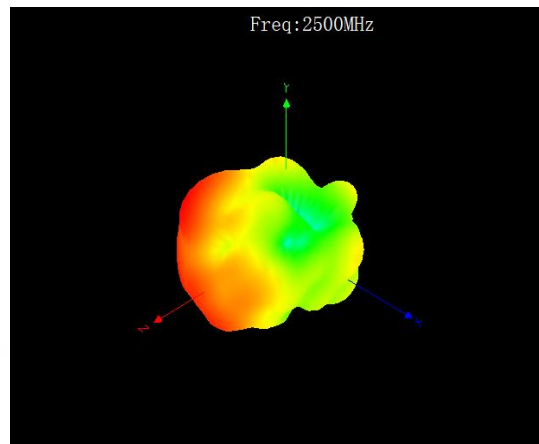
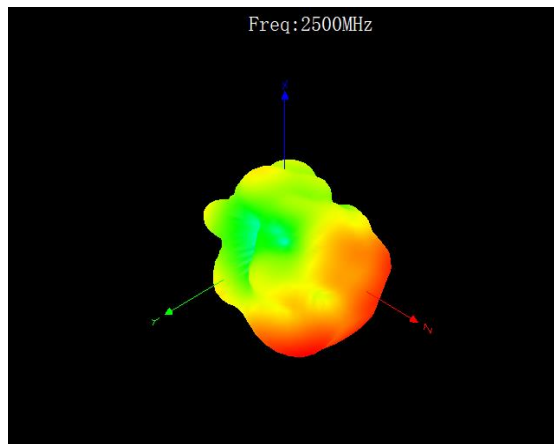




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ANT Communication Technology (Shenzhen) Co., LTD.

## 3D-Etotal (2500Mhz)





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**THANK YOU!**