

Shenzhen Hetuo Technology Co., Ltd

Sample Approved Sheet

Hetuo (2.4G-001) Acknowledgment

Customer Name Dongguan Hengyue Industrial Co., Ltd.

Client Type 2.4G-001

Brand HT-2.4G-001

Hetuo Judgment Audit Team

Formulate	Check	Ratify	Acknowledge the book completion time
ZhongXiaoMing	HuangZhiLing	Daitingting	2024.11.22

Hengyue Judgment Audit Team

Acknowledgement Number _____

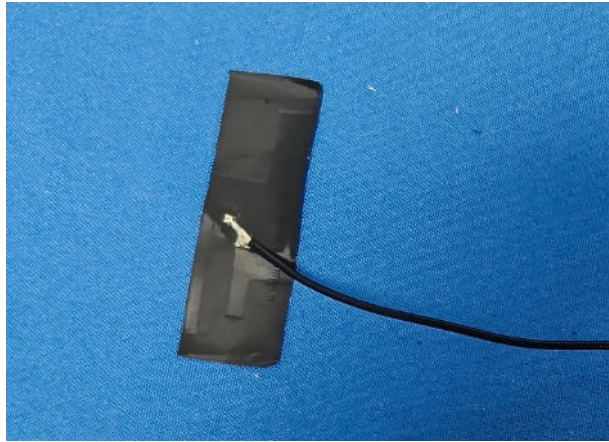
Proving time

acknowledge	check	ratify	Acknowledge the book completion time
Project Review ☐Three acknowledgements☐Specifications/drawings ☐examining report ☐Specimen PCS ☐Safety standard ☐HSF			
Appraisal report☐Accept ☐Conditional acceptance ☐Refuse			

[illegible]

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of **HT-2.4G-001**. The **HT-2.4G-001** antenna is a **BT** Band . The antenna Picture and assembly are shown below.



FPC Antenna picture & assembly picture

2. Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber , and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

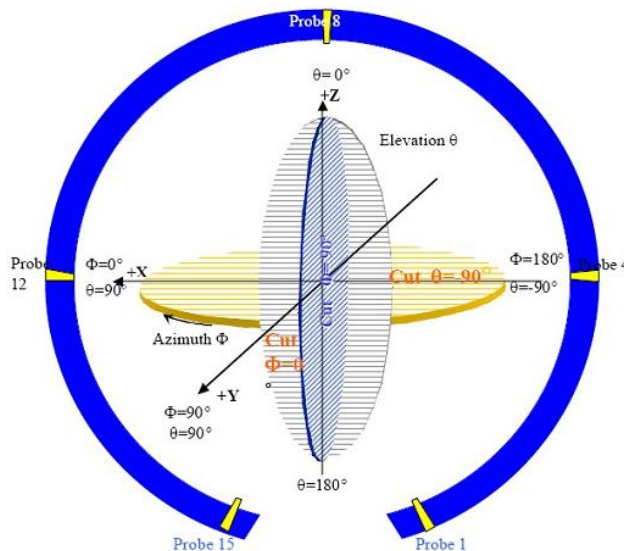


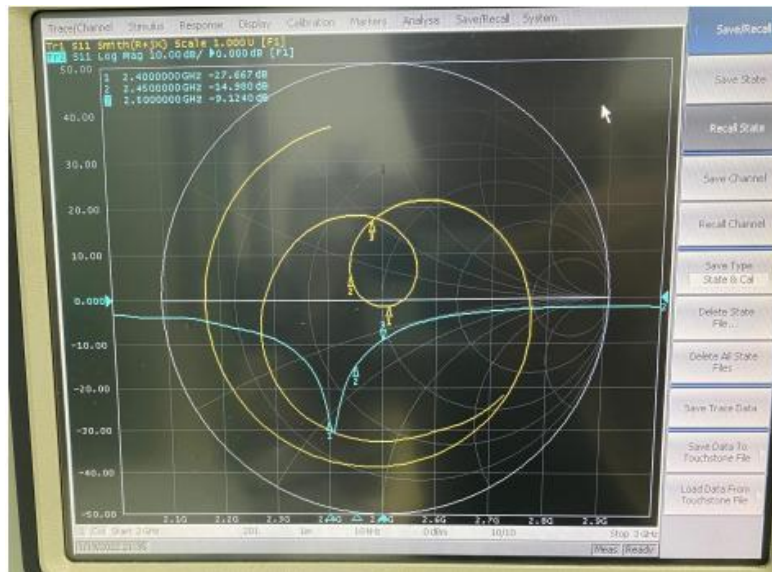
图 4 3D 微波暗室测试坐标系 (back view)

3. Electrical Specification

3-2 Passive S11 parameter

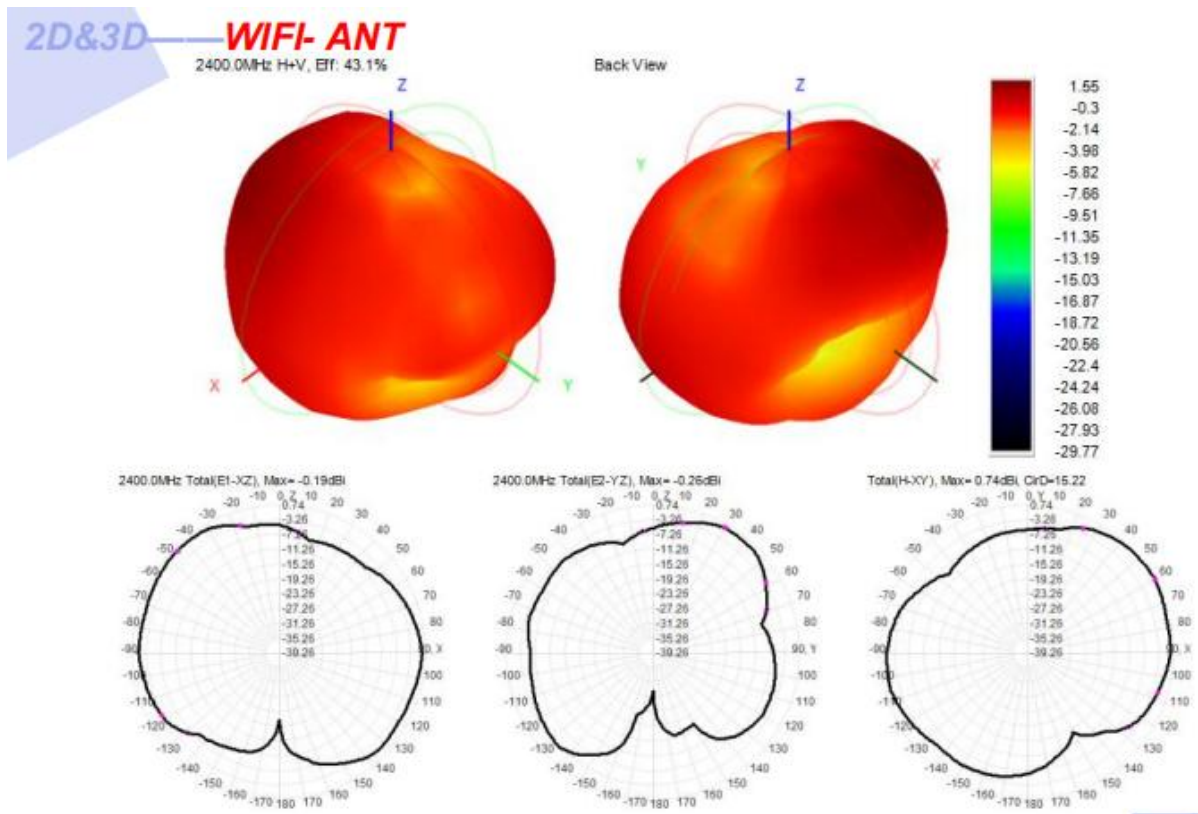
Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

VSWR



3-3 Antenna Matching Network

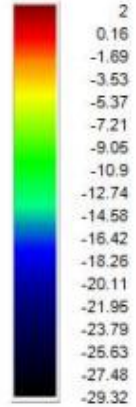
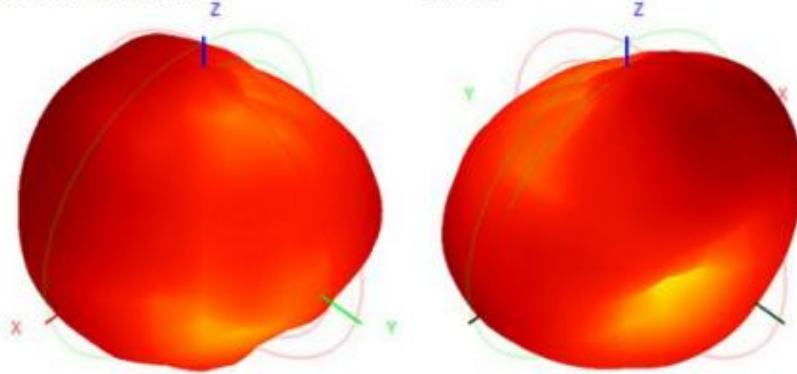
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	43.14	1.55
2410	44.46	1.89
2420	46.79	2.05
2430	50.39	2.33
2440	53.32	2.06
2450	55.67	2.00
2460	54.69	1.97
2470	54.27	1.94
2480	47.96	1.82
2490	46.17	2.11
2500	43.41	1.59



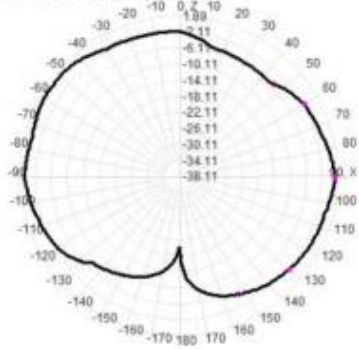
2D&3D — WIFI- ANT

2450.0MHz H+V, Eff: 55.7%

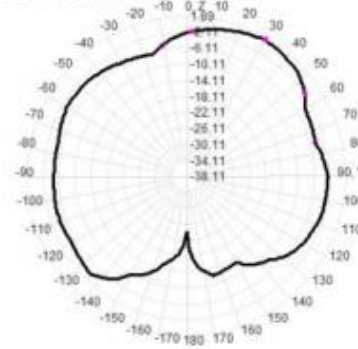
Back View



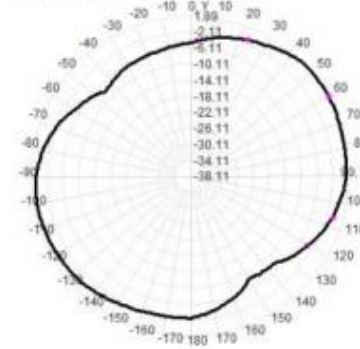
2450.0MHz Total(E1-XZ), Max=-0.93dBi



2450.0MHz Total(E2-YZ), Max=-1.14dBi



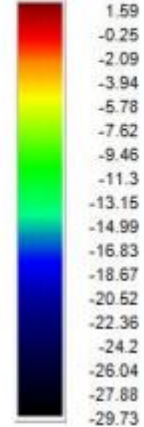
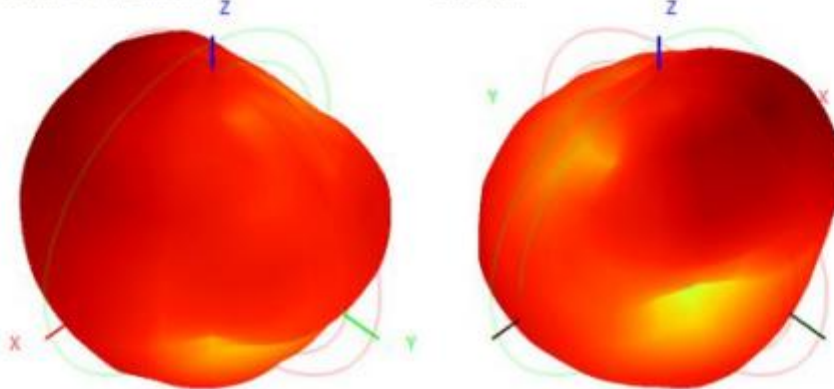
Total(H-XY), Max=-1.89dBi, CrD=10.57



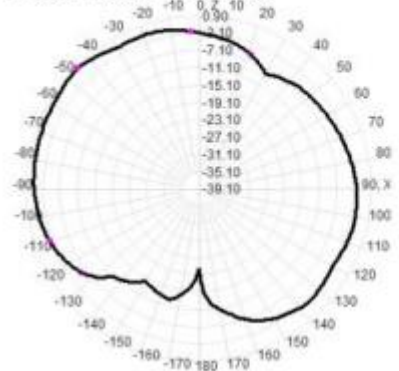
2D&3D — WIFI- ANT

2500.0MHz H+V, Eff: 43.4%

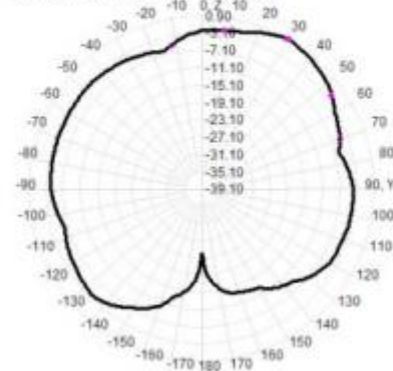
Back View



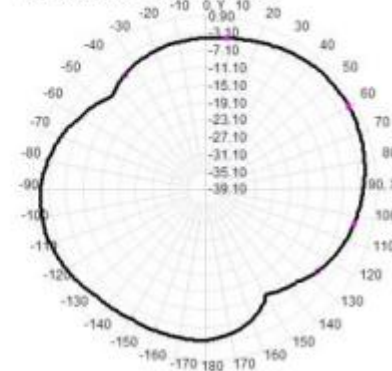
2500.0MHz Total(E1-XZ), Max=-0.36dBi



2500.0MHz Total(E2-YZ), Max=-0.90dBi



Total(H-XY), Max=-0.80dBi, CrD=10.25



4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 8

