



# 规格承认书

## SPECIFICATION FOR APPROVAL

|                |            |
|----------------|------------|
| 日期<br>Date     | 2025/12/03 |
| 编号<br>File No  | 25120301   |
| 版本<br>Revision | 1.0        |

客户  
CUSTOMER: 惠州市智远传感仪器  
Huizhou Zhiyuan Sensor Instruments

客户料号  
CUSTOMER NO: 蓝牙电子秤 Bluetooth electronic scale

品名  
PART NAME: BT Antenna

供方料号  
SUPPLIER NO: YJI01.064.001.301A

送样日期Date: 送样数量Q'TY:

| 客户确认CUSTOMER APPROVED BY |       |            |
|--------------------------|-------|------------|
| APPROVAL                 | CHIEF | SUPERVISOR |
|                          |       |            |

| 供方确认 SUPPLIER SIGNATURE                                                                             |            |            |
|-----------------------------------------------------------------------------------------------------|------------|------------|
| APPROVAL                                                                                            | CHECK      | DESIGN     |
| <br>ChenGuoqiang | ZhangLiqun | ChenXingyi |

YJ-RD-F04-A





## 承认书项目表

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| 12 | -                            | -                       | -                  |
| 13 | -                            | -                       | -                  |



RoHS

CUSTOMER  
PART NO

REV.

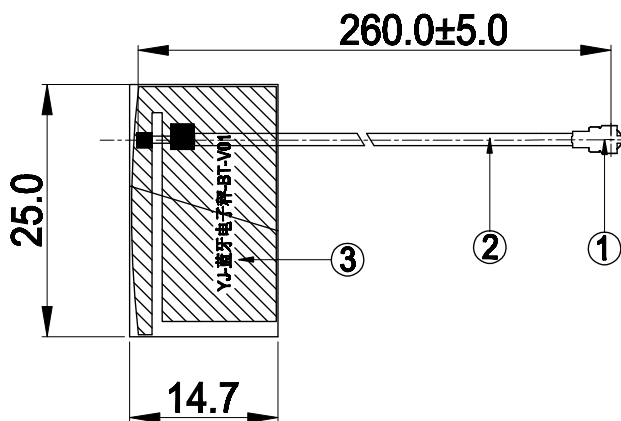
DESCRIPTION

DATE



首次发行

2025-12-01



东莞市一佳电子通讯科技有限公司  
DONGGUAN YUJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

PART NAME: BT Antenna

PART NO.: YJ101.064.001.301A

DATE: 2025-12-03

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

殷涛

唐国浩

黄土勇

UNITS: mm  
SCALE: 1/1  
REVISION: A

X.X ±0.50  
X.XX±0.15  
X° ±3°

|    |                |                |          |                      |      |
|----|----------------|----------------|----------|----------------------|------|
| 3  | FPCB           | 25.0*14.7MM    | FPCB     | 101.064.001.FPC0101T | 1    |
| 2  | Coaxial Cable  | O.D.1.13 Black | O.D.1.13 | COA10001A.P01        | 1    |
| 1  | Mini Connector | Au Plated 1代   | Cu       | TER10001A.P01        | 1    |
| NO | PART NAME      | DESCRIPTION    | Material | Part Number          | Q.TY |



天线规格  
Antenna Specification

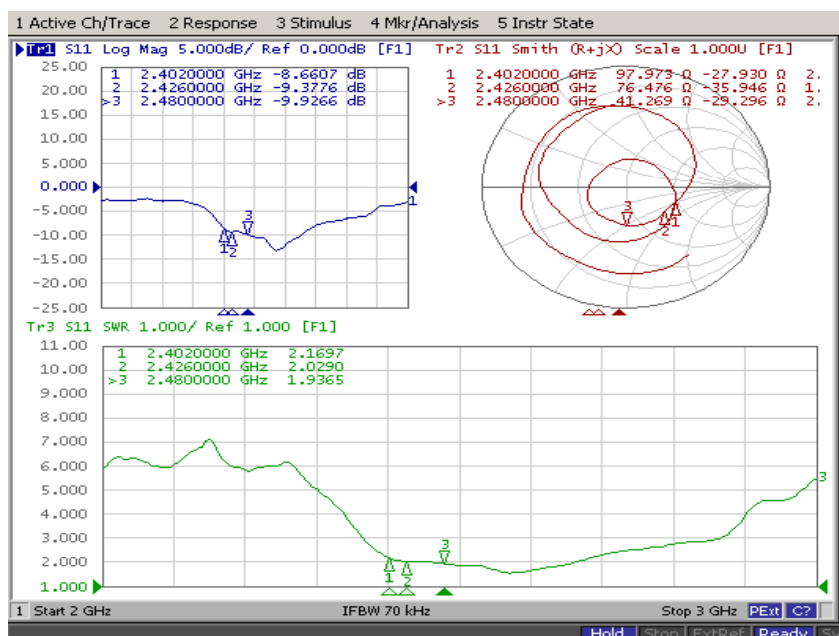
| Electrical Properties   |                  |
|-------------------------|------------------|
| Frequency               | 2.4-2.5GHz       |
| Impedance               | 50 Ohm Nominal   |
| V.S.W.R                 | 2.5 Max          |
| Gain                    | 2.5 dBi          |
| Radiation               | Omni-directional |
| Polarization            | Linear           |
| Physical Properties     |                  |
| Connector               | 1代IPEX           |
| Cable Type              | O.D.1.13mm       |
| Cable Length            | 260mm            |
| Cable Color             | Black            |
| Operating Temp.         | -40 ~ +85 °C     |
| Storage Temp / Humidity | 25±5°C / <70%    |





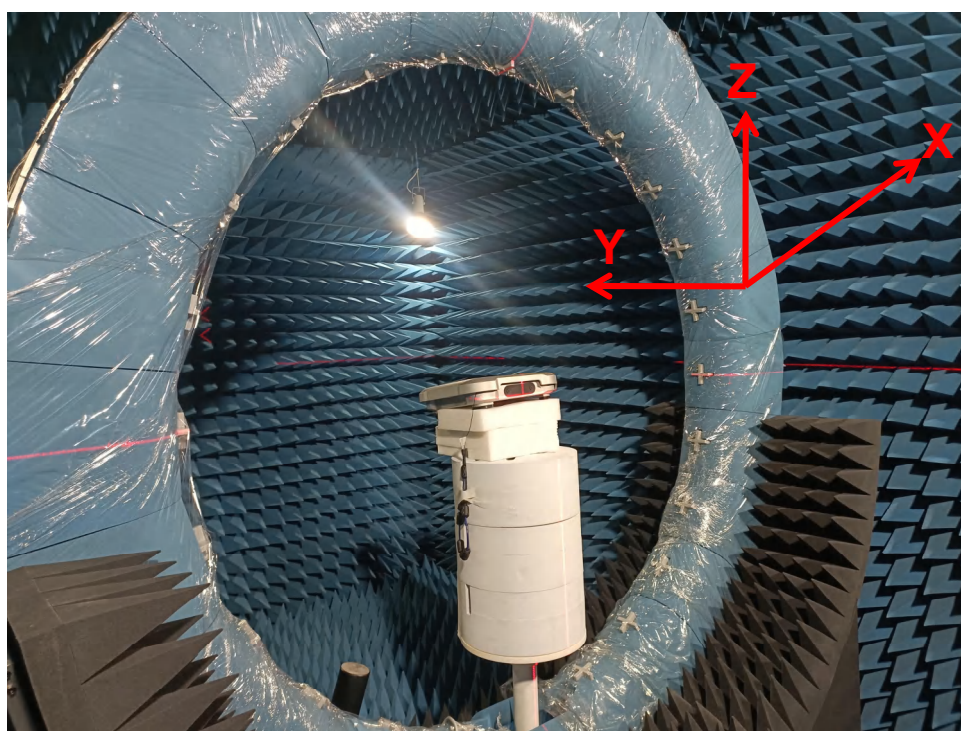
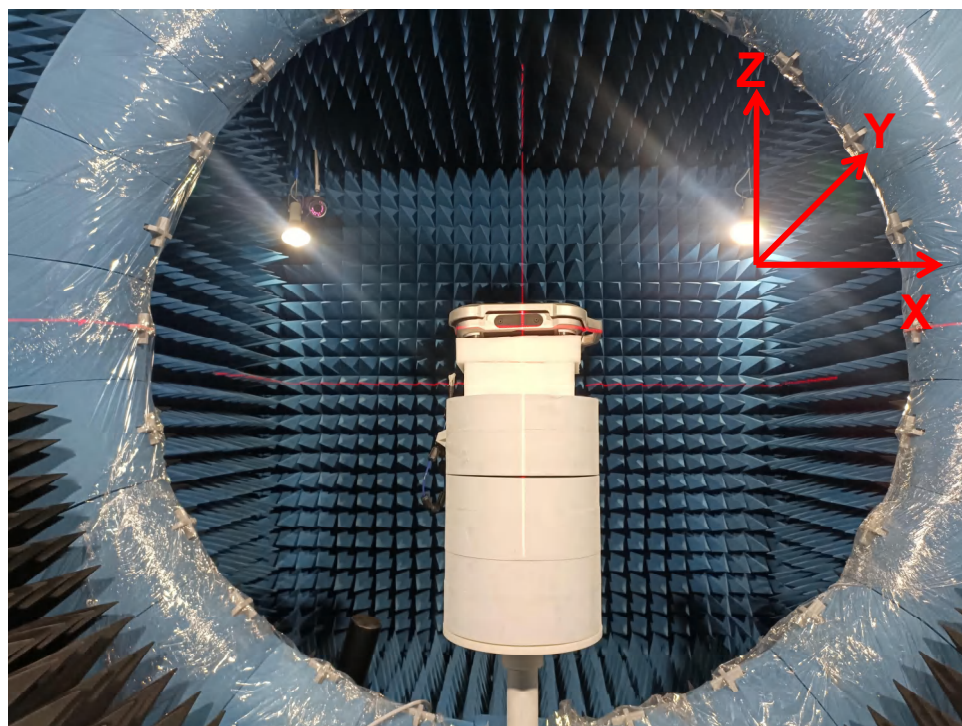
## Antenna Performance Test

*Agilent  
E5071C  
S  
Parameter  
Test //  
BT  
Antenna*





## *Antenna Passive Test*





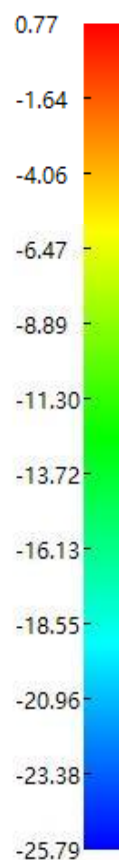
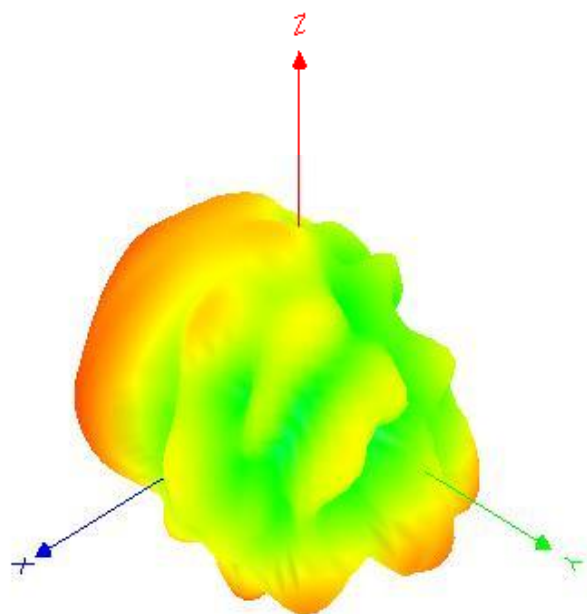
| Passive Test For BT Antenna(2.4G) |             |              |               |
|-----------------------------------|-------------|--------------|---------------|
| Freq<br>(MHz)                     | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
| 2400                              | 29.7        | -5.3         | 0.8           |
| 2410                              | 32.5        | -4.9         | 1.4           |
| 2420                              | 37.0        | -4.3         | 2.1           |
| 2430                              | 38.6        | -4.1         | 2.3           |
| 2440                              | 40.1        | -4.0         | 2.4           |
| 2450                              | 43.5        | -3.6         | 2.5           |
| 2460                              | 45.1        | -3.5         | 2.3           |
| 2470                              | 45.7        | -3.4         | 2.0           |
| 2480                              | 45.5        | -3.4         | 1.8           |
| 2490                              | 46.2        | -3.4         | 1.9           |
| 2500                              | 45.6        | -3.4         | 2.1           |





## Radiation Pattern For BT Antenna (2400MHz)

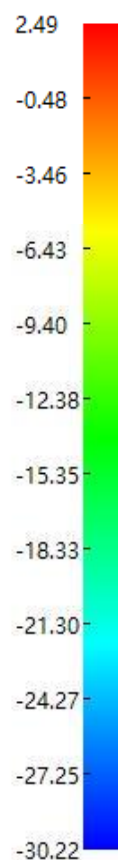
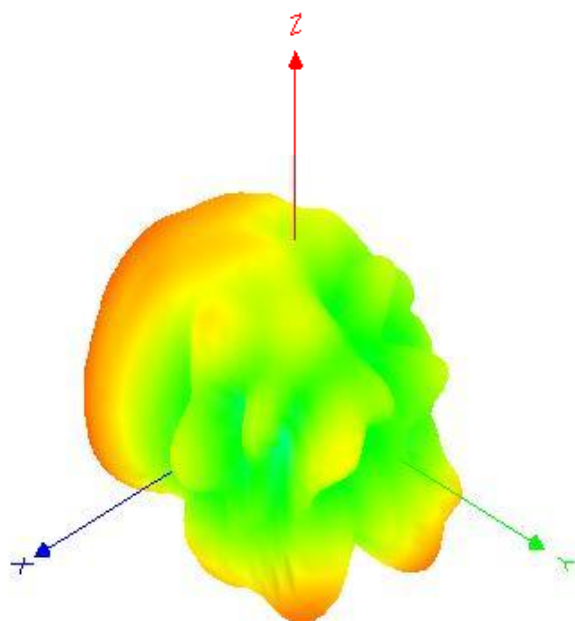
Frequency (MHz) : 2400





## Radiation Pattern For BT Antenna (2450MHz)

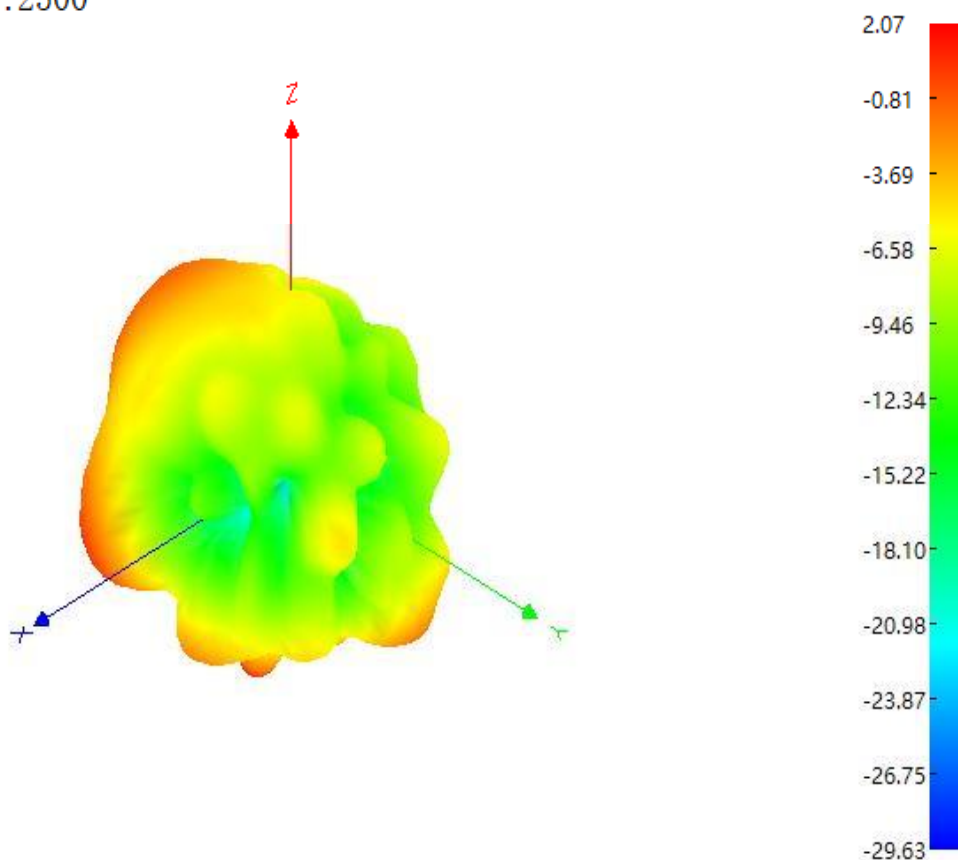
Frequency (MHz) : 2450





## Radiation Pattern For BT Antenna (2500MHz)

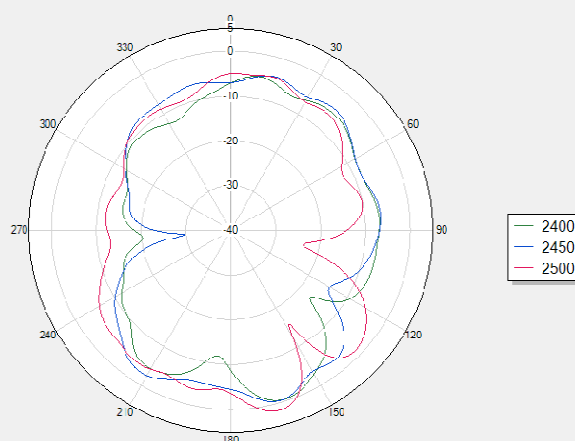
Frequency (MHz) : 2500



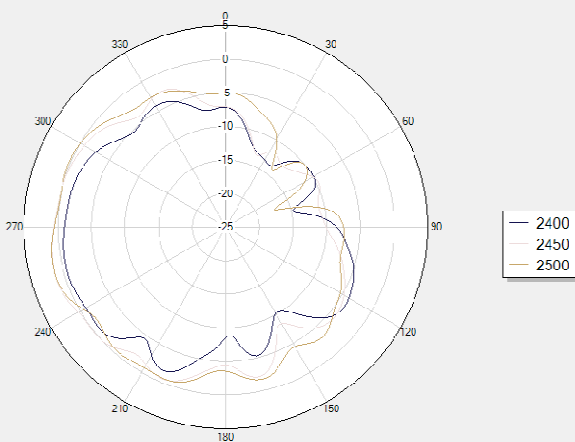


## Radiation Pattern For BT Antenna

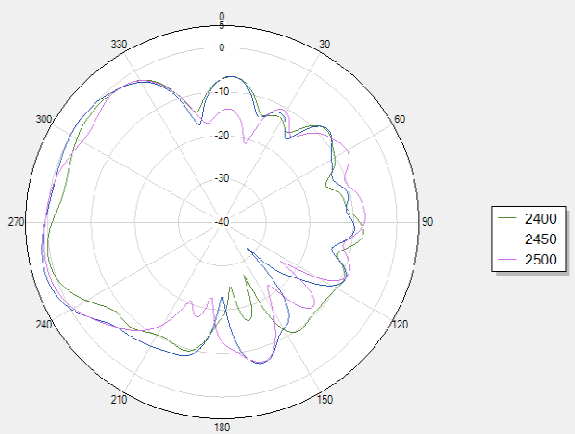
Phi 0°



Phi 90°



Theta 90°





**东莞市一佳电子通讯科技有限公司**  
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

*Device*



*BT  
Antenna*



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**东莞市一佳电子通讯科技有限公司**  
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

**BT Antenna**



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