

Dongguan Lixinwei Electronics Co., Ltd  
No. 2, 2nd Floor, District 2, Fu Hui Chuangyuan, Dongjiang  
Road, Huanlu Village, Huangjiang Town, Dongguan City

## Antenna Specification for Approval

Customer Name: WanDi Electronics

Address:

Product Name: 2.4GHZ copper tube antenna

Part NO.: C113H-BT50-26-120R

Write By: Zhou Min

Issued Date: 2022-9-13



# Product Specification

## A. Electrical Characteristics

**Frequency** 2400MHz ~2500MHz

**VSWR** <2.0

**Efficiency** >75%

**Impedance** 50 Ohm

**Polarization** Line

**Gain** 2.09DBi

## B. Material & Mechanical Characteristics

**Material of Radiator** Cu

**Cable Type** 1.13 black

**Connector Type** : NO

**Dimension**

## C. Environmental

**Operation Temperature** - 30 °C ~ + 80 °C

**Storage Temperature** - 30 °C ~ + 85 °C

# Test Equipment & Conditions

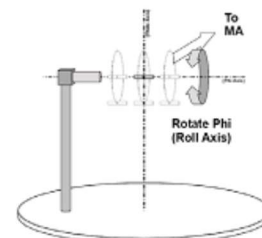
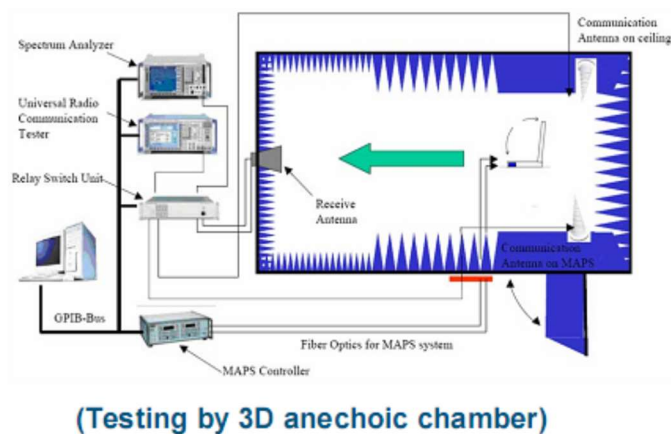
## 1. Network Analyzers :

Agilent 8753D 5071B

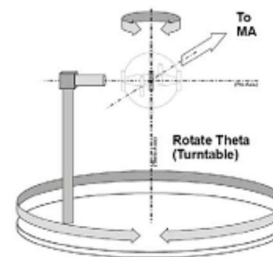
## 2. Communications Test Set:

Agilent E5515C

## 3. 3D Chamber Test System



**Phi axis test**

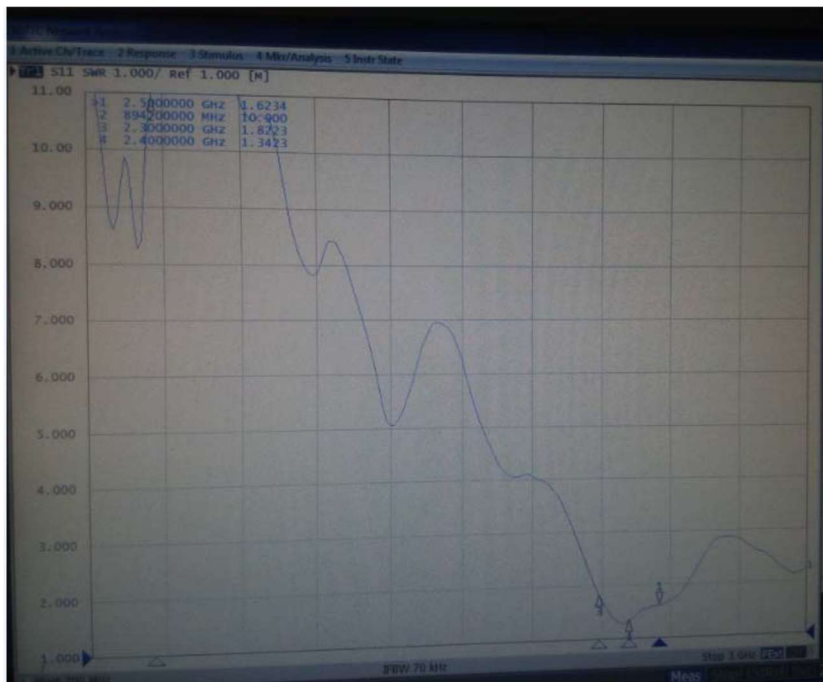


**Theta axis test**

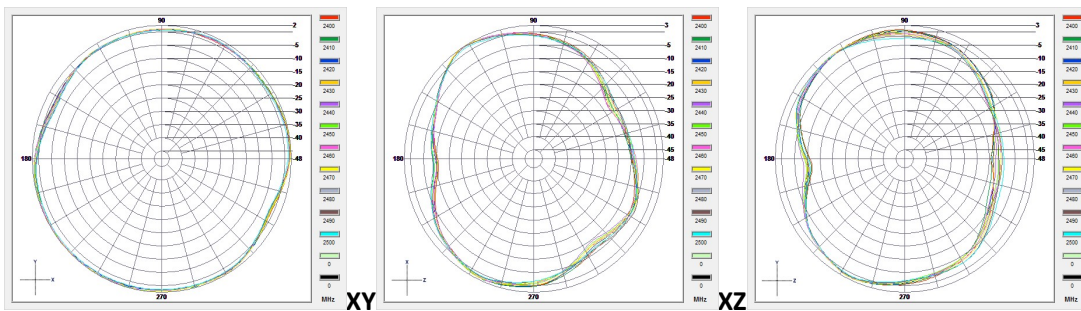
## Efficiency & Gain

| Freq<br>(MHz) | Effi<br>(%%) | Gain<br>(dBi) |
|---------------|--------------|---------------|
| 2400          | 76.45        | 2.02          |
| 2410          | 74.46        | 2.06          |
| 2420          | 74.58        | 2.01          |
| 2430          | 72.59        | 2.06          |
| 2440          | 66.69        | 2.03          |
| 2450          | 72.16        | 2.03          |
| 2460          | 71.67        | 2.09          |
| 2470          | 72.96        | 2.00          |
| 2480          | 72.45        | 2.00          |
| 2490          | 68.43        | 2.05          |
| 2500          | 76.68        | 2.09          |

## S11



## Radiation Pattern:



YZ

2400    2410    2420    2430    2440    2450    2460    2470    2480    2490    2500

