Dongguan Lixinwei Electronics Co., Ltd

# Antenna Specification for Approval

Customer Name: _____

Product Name: 2.4G antenna

Product Name: _____

Part NO.: 113H-BT44-1152-29-335R

Write By: Mr. zhou

Issued Date: 2025-7-19

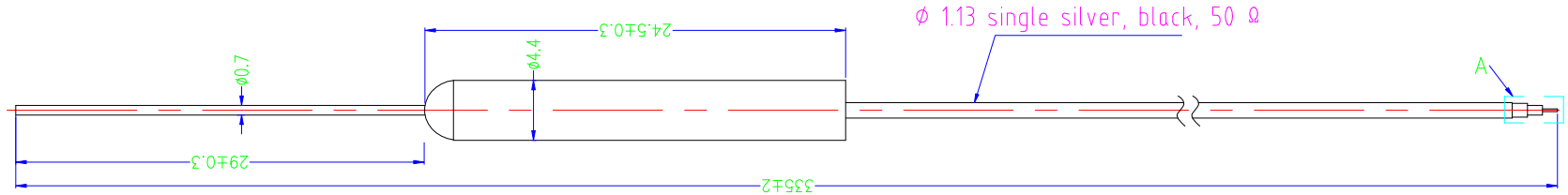
## customer:

| R&D Dept | Business Dept | Approved By |
|---|---|---|
| | | |

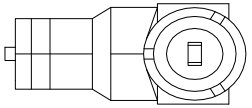
## supplier

| R&D Dept | Engineer Dept | Approval |
|---|---|---|
| | | |

Φ 1.13 gray copper tube antenna




1 IPX



A
4:1

Specification:

1. Frequency range: 2.4GHz - 2.5GHz;

2. Power gin: 1.95dBi.

| | | | | |
|---|---|---|---|---|
| TITLE: 2.4Gantenna | | | MATERIAL: —— | FINISH: |
| PART/NO.: 113H-BT44-1152-29-335R | | | TOLERANCE ?? | |
| UNIT IN mm | SCALE: 2.5:1 | | LINEAR ?? L<30 ——±0.10 30<L<100-±0.15 L>100 ——±0.20 | ANGULAR?? X.XX -±0.1° X.X ±0.2° |
| | | | UNLESS OTHERWISE SPECIFIED | |
| DRWING 敦 | DATE 24-09-20 | | CHECKING | DATE |
| | | | | REV 01 |

Dongguan Lixinwei Electronics Co., Ltd

# Product Specification

A. Electrical Characteristics

**Frequency 2400MHz ~2500MHz**

**VSWR <2.0**

**Efficiency >75%**

**Impedance 50 Ohm**

**Polarization Line**

**Gain 1.95DBi**

B. Material & Mechanical Characteristics

**Material of Radiator Cu**

**Cable Type 1.13**

**Connector Type : NO**

**Dimension**

C. Environmental

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

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

## Test Equipment & Conditions

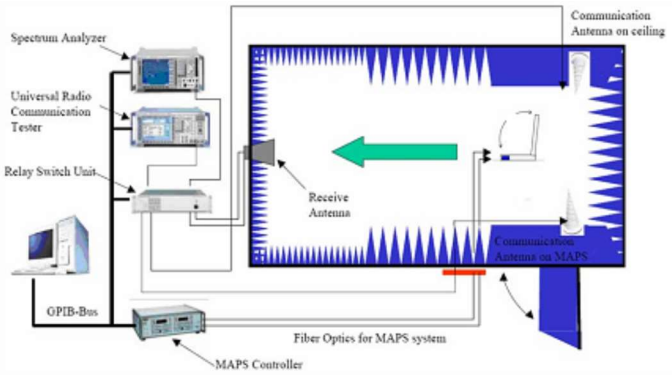
### 1. Network Analyzers :

Agilent 8753D 5071B

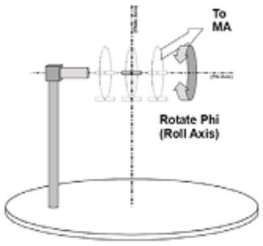
### 2. Communications Test Set:

Agilent E5515C

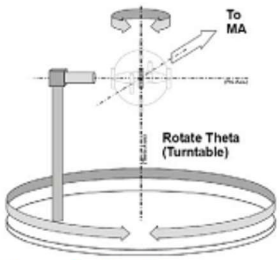
### 3. 3D Chamber Test System




(Testing by 3D anechoic chamber)




Phi axis test

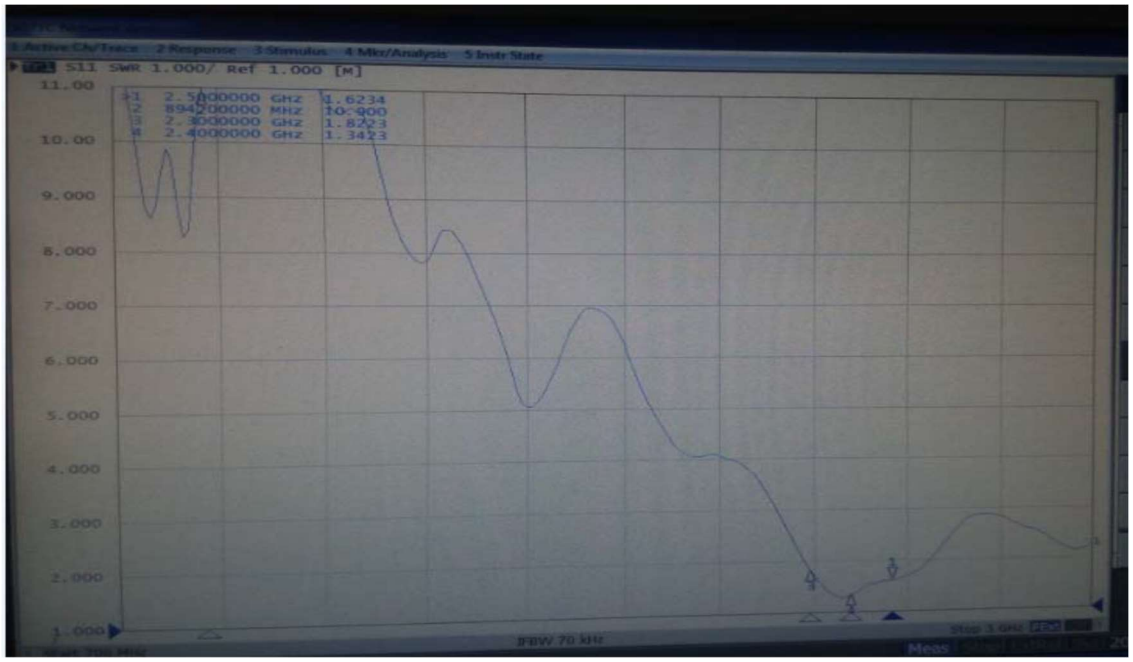



Theta axis test

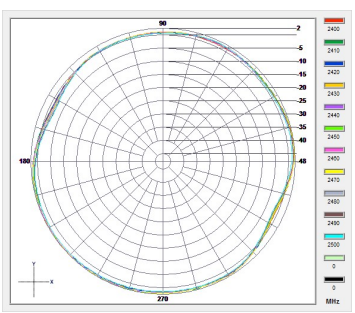
# Effiency &Gain

| Freq (MHz) | Effi (%%) | Gain (dBi) |
|---|---|---|
| 2400 | 76.95 | 1.4 |
| 2410 | 74.84 | 1.86 |
| 2420 | 74.68 | 1.8 |
| 2430 | 72.55 | 1.95 |
| 2440 | 66.66 | 1.51 |
| 2450 | 72.06 | 1.72 |
| 2460 | 71.87 | 1.84 |
| 2470 | 72.95 | 1.83 |
| 2480 | 72.43 | 1.77 |
| 2490 | 68.41 | 1.71 |
| 2500 | 67.46 | 1.32 |

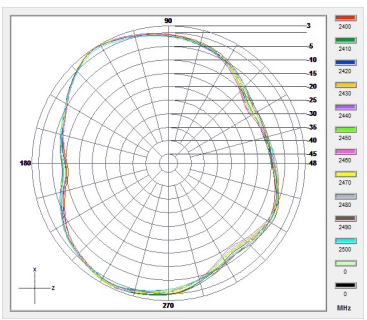
# S11



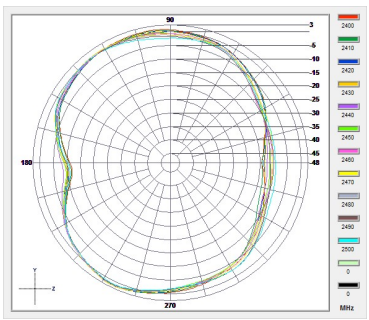

# Radiation Pattern:



XY



XZ



YZ

2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500