

# 东振电子有限公司

## 天线规格承认书

### Antenna Specification for Approval

客户名称

Customer Name: Guangdong Hengdi Technology Corp., Ltd

客户地址:

Customer Address : Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road

产品名称:

Product Name: Brass Tube Antenna

产品料号:

Part NO. : C113H-BT4429-100

制 表:

Write By: 周 敏

日 期:

Issued Date: 2019-3-20

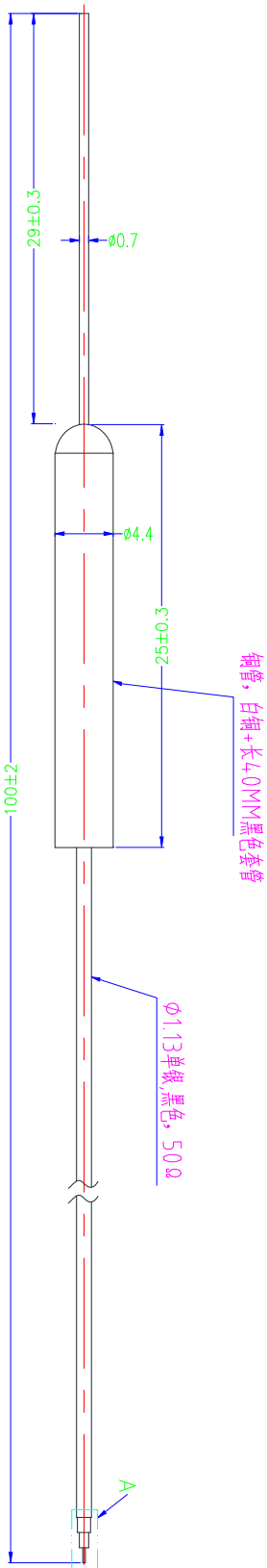
客 户:

|            |                 |                |
|------------|-----------------|----------------|
| 工程R&D Dept | 采购Business Dept | 承认 Approved By |
|            |                 |                |

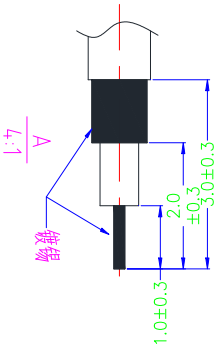
东 振 电 子

|            |                  |             |
|------------|------------------|-------------|
| 研发R&D Dept | 工程 Engineer Dept | 审核 Approval |
|            |                  |             |

| 标记 | 页数 | 更改内容 | 签字 | 日期 |
|----|----|------|----|----|
|    |    |      |    |    |



规格说明:  
1.频率范围: 2.4GHz-2.5GHz;  
2.功率增益: 2.0dBi。



|                 |  |               |  |              |  |
|-----------------|--|---------------|--|--------------|--|
| TITLE: 2.4G铜管天线 |  | MATERIAL: ??  |  | FINISH: 表面处理 |  |
| PART/NO.: ??    |  | SCALE: 2.5:1  |  | CHECKING: ?? |  |
| UNIT IN mm      |  | DATE 16-12-25 |  | DATE ??      |  |
| DRAWING 数       |  | CHECKING      |  | REV 01       |  |
| 东振电子有限公司        |  | DATE          |  | REV          |  |

# Product Specification

## A. Electrical Characteristics

**Frequency** 2400MHz ~2500MHz

**VSWR** <2.0

**Efficiency** >75%

**Impedance** 50 Ohm

**Polarization** Line

**Gain** 2DBi

## B. Material & Mechanical Characteristics

**Material of Radiator** Cu

**Cable Type** 1.13 gray

**Connector Type** : NO

**Dimension**

## C. Environmental

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

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

# Test Equipment & Conditions

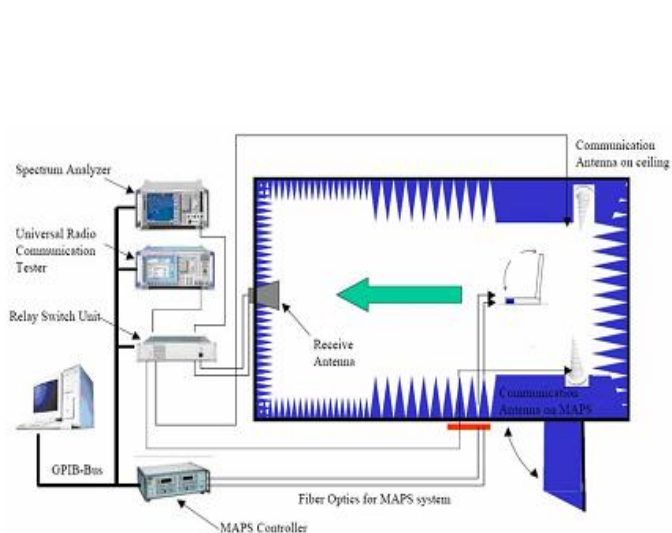
## 1. Network Analyzers :

Agilent 8753D 5071B

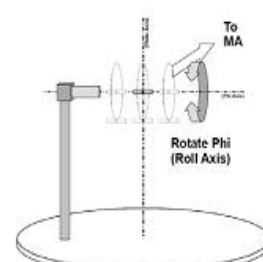
## 2. Communications Test Set:

Agilent E5515C

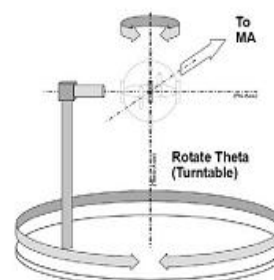
## 3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

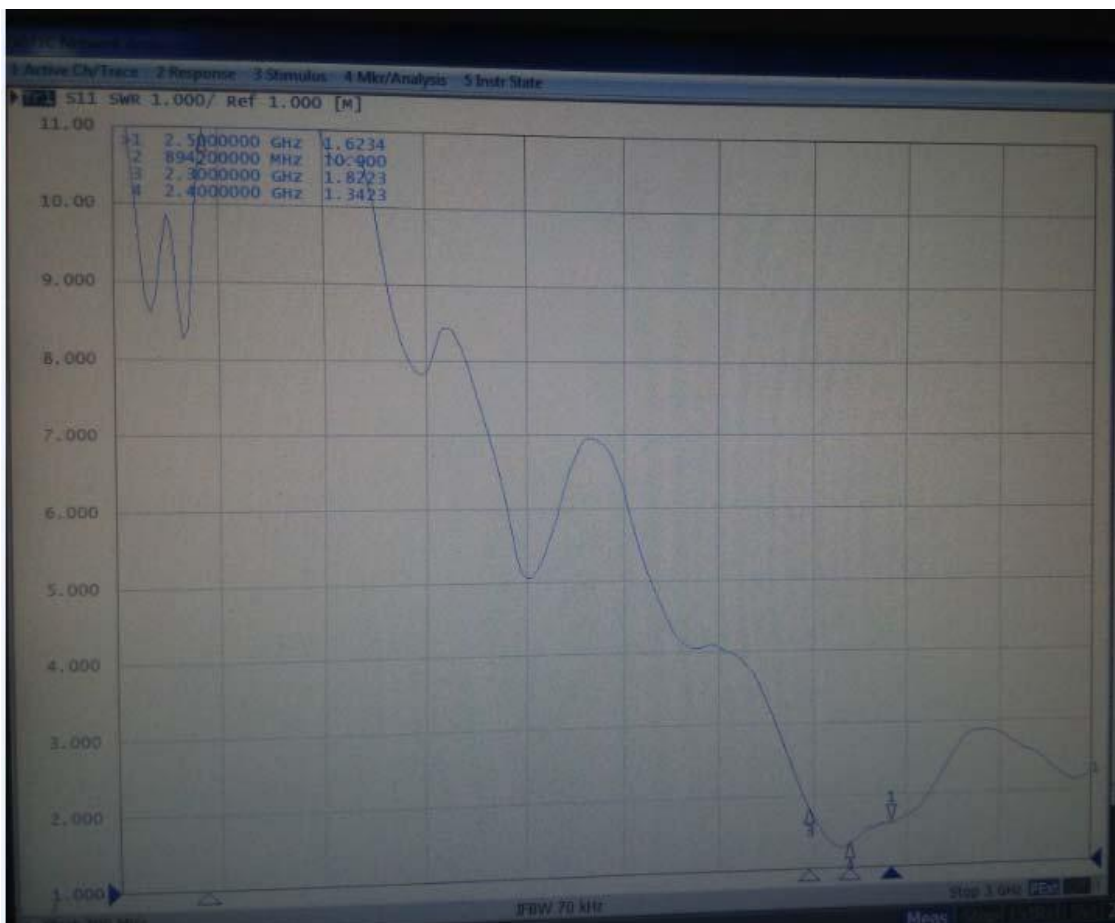


Theta axis test

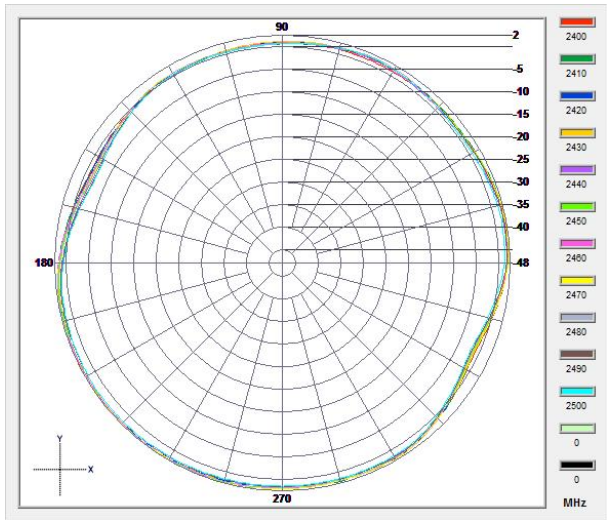
## Effiency & Gain

| Freq<br>(MHz) | Effi<br>(%%) | Gain<br>(dBi) |
|---------------|--------------|---------------|
| 2400          | 76.92        | 1.8           |
| 2410          | 75.12        | 1.88          |
| 2420          | 73.34        | 1.7           |
| 2430          | 72.57        | 2.00          |
| 2440          | 66.67        | 1.61          |
| 2450          | 71.03        | 1.83          |
| 2460          | 70.83        | 1.82          |
| 2470          | 71.95        | 1.89          |
| 2480          | 72.28        | 1.68          |
| 2490          | 68.19        | 1.62          |
| 2500          | 67.42        | 1.03          |

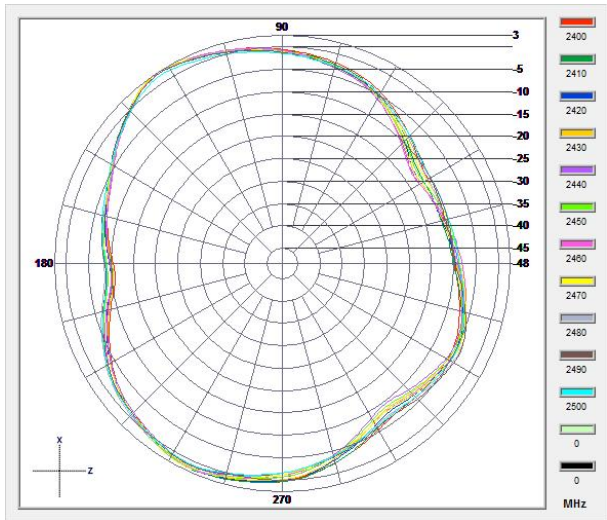
## S11



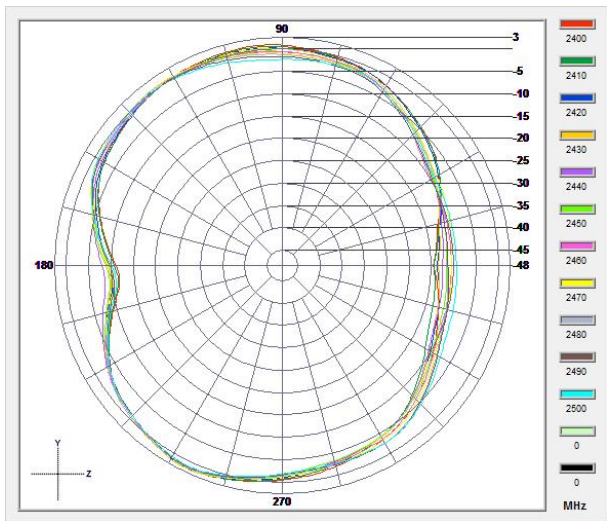
# Radiation Pattern:



XY



XZ



YZ

2400    2410    2420    2430    2440    2450    2460    2470    2480    2490    2500

