

# 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:

产品名称:

Product Name: 2.4G铜管天线全长100黑色

客户型号:

Product Name:

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 |
|            |                  |             |



# Product Specification

## A. Electrical Characteristics

**Frequency** 2400MHz ~2500MHz

**VSWR** <2.0

**Efficiency** >75%

**Impedance** 50 Ohm

**Polarization** Line

**Gain** 2.99DBi

## B. Material & Mechanical Characteristics

**Material of Radiator** Cu

**Cable Type** 1.13 灰色

**Connector Type** : NO

**Dimension**

## C. Environmental

**Operation Temperature** - 30 ℃ ~ + 80 ℃

**Storage Temperature** - 30 ℃ ~ + 85 ℃

# Test Equipment & Conditions

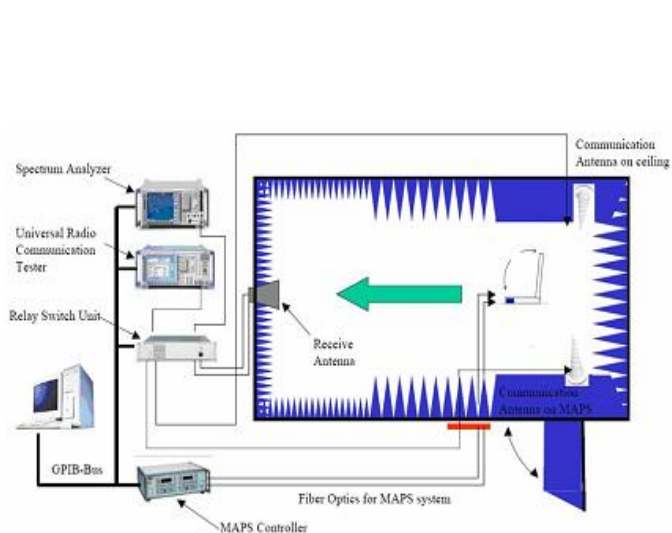
## 1. Network Analyzers :

Agilent 8753D 5071B

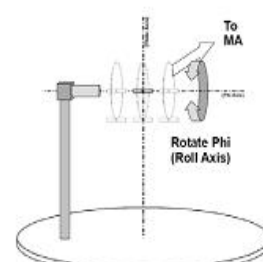
## 2. Communications Test Set:

Agilent E5515C

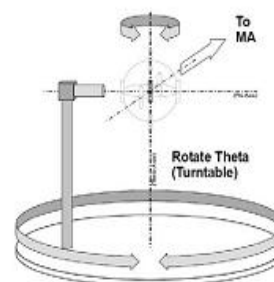
## 3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

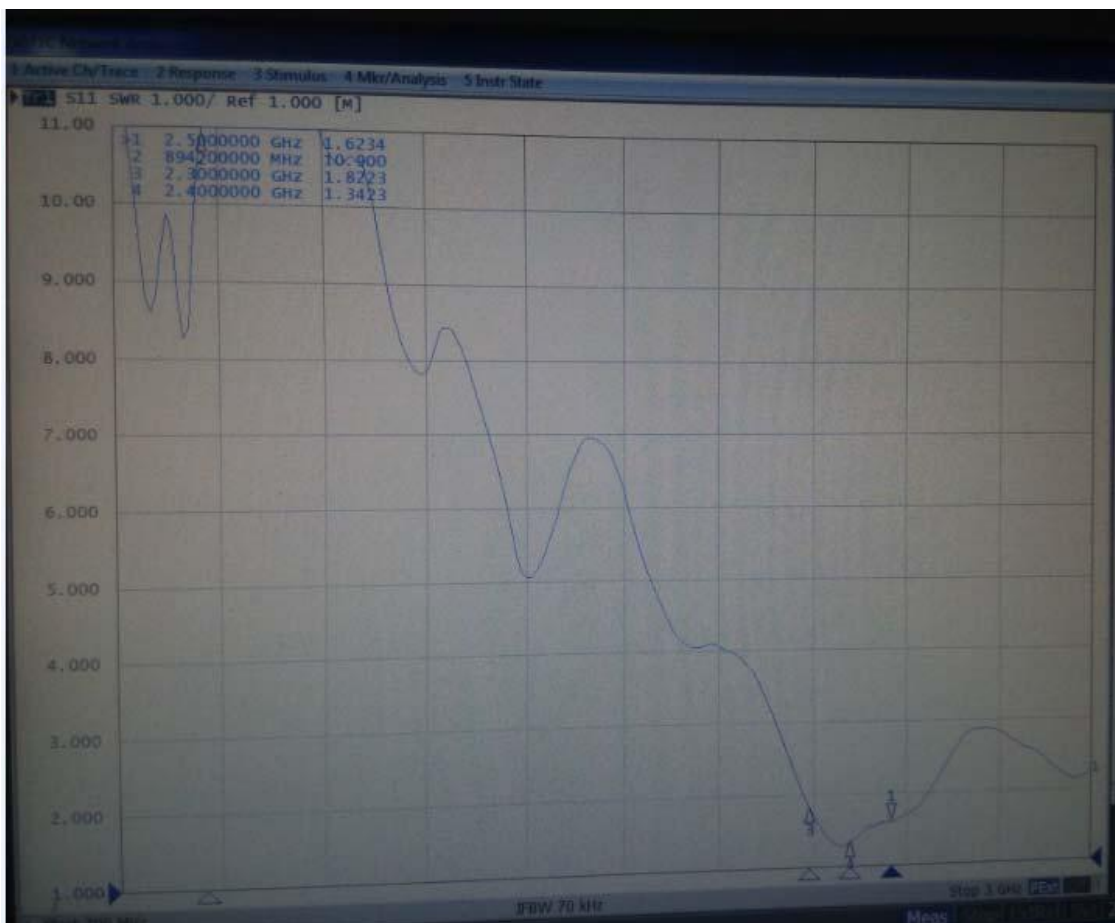


Theta axis test

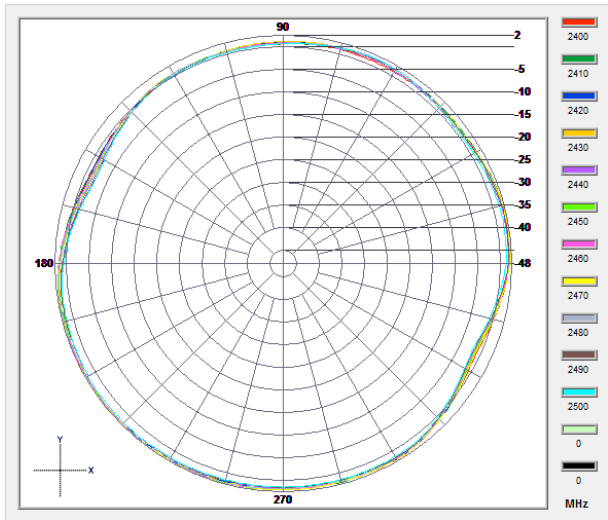
## Effiency&Gain

| Freq  | Effi  | Gain  |
|-------|-------|-------|
| (MHz) | (%)   | (dBi) |
| 2400  | 76.92 | 2.8   |
| 2410  | 75.12 | 2.88  |
| 2420  | 73.34 | 2.7   |
| 2430  | 72.57 | 2.99  |
| 2440  | 66.67 | 2.61  |
| 2450  | 71.03 | 2.83  |
| 2460  | 70.83 | 2.82  |
| 2470  | 71.95 | 2.89  |
| 2480  | 72.28 | 2.68  |
| 2490  | 68.19 | 2.62  |
| 2500  | 67.42 | 2.03  |

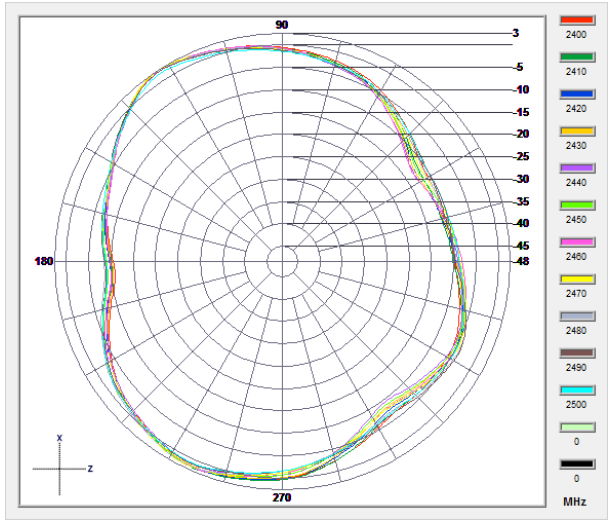
## S11



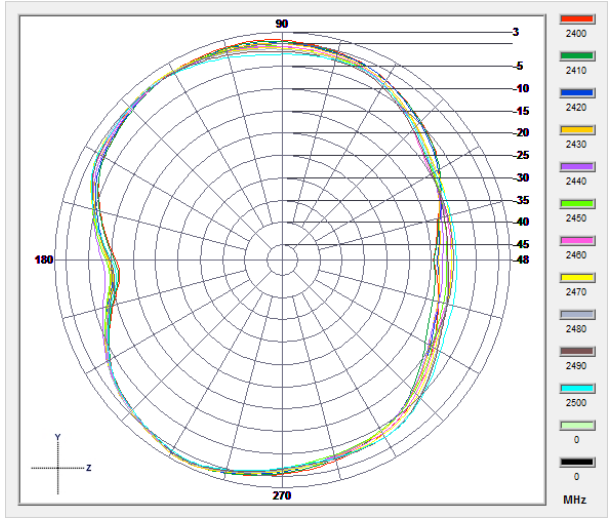
# Radiation Pattern:



XY

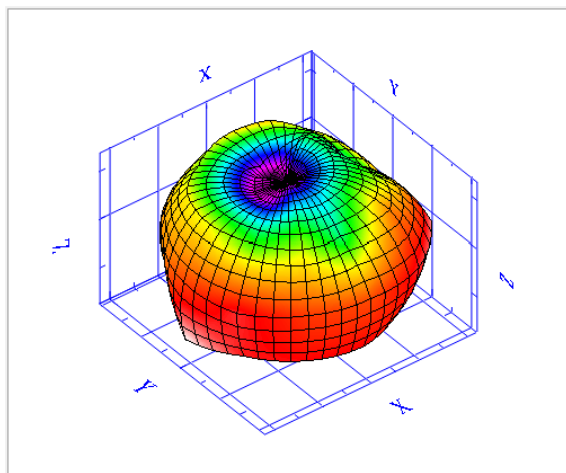


XZ

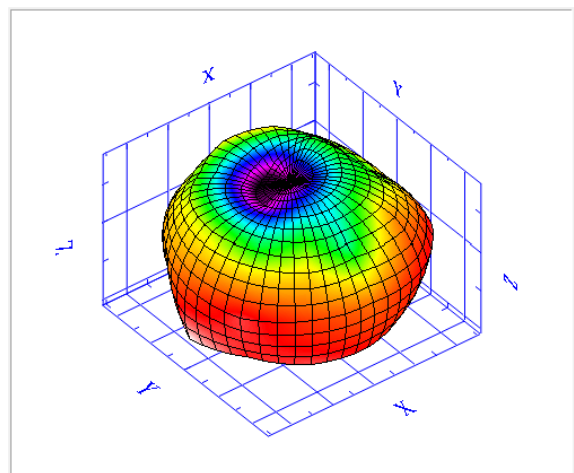


YZ

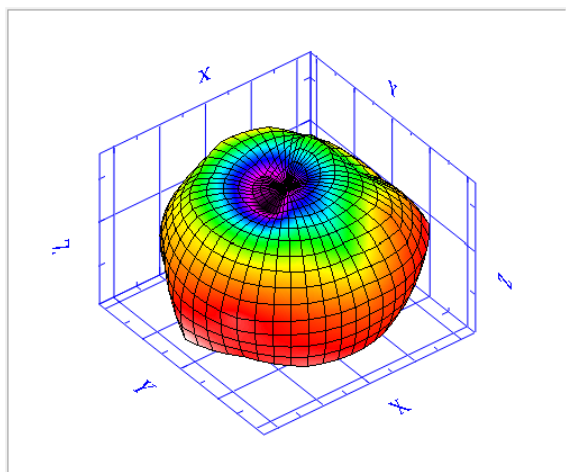
2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500



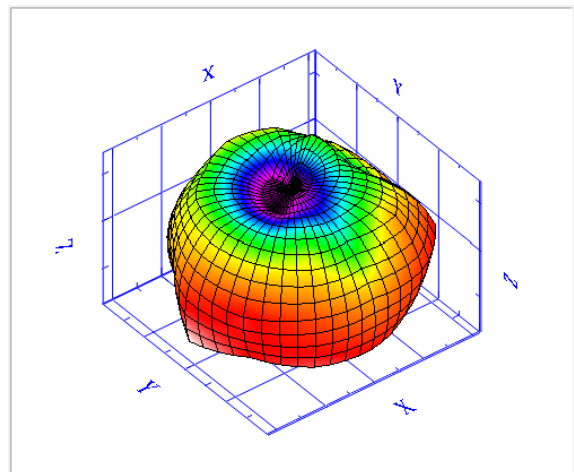
2.82 -0.22 -3.28 -6.3 -9.34 -12.37 -15.41 -18.45 -21.49



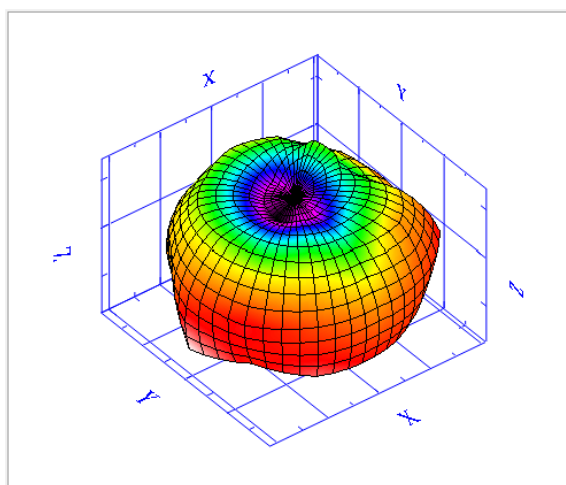
2.89 -0.54 -4.18 -7.71 -11.24 -14.77 -18.31 -21.84 -25.37



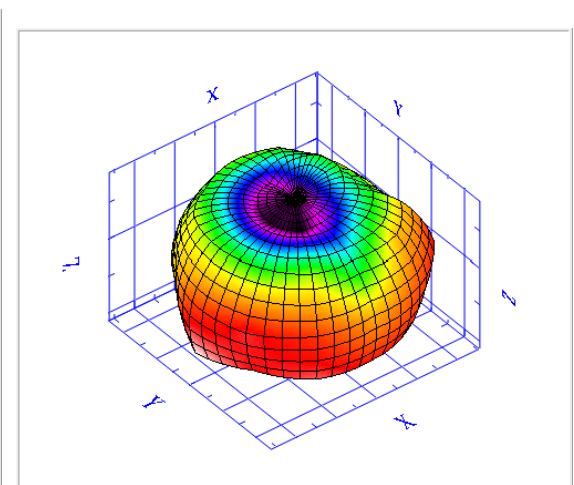
2.7 -0.49 -3.68 -6.87 -10.07 -13.26 -16.45 -19.64 -22.83



3 -0.04 -3.08 -6.12 -9.15 -12.19 -15.23 -18.27 -21.31



2.63 -0.35 -3.32 -6.3 -9.27 -12.25 -15.22 -18.19 -21.17



2.84 -0.75 -4.34 -7.93 -11.52 -15.11 -18.7 -22.29 -25.88

