

# Weilin Electronics Co., Ltd

## Antenna Specification for Approval

Customer Name: \_\_\_\_\_

address: Fengxiang Street, Chenghai District, Shantou  
City, Guangdong ProvinceNo. 8, Kunmei Lake Xing Road, East  
12

Product Name: 2.4G antenna

Part NO.: 27\*0.14\*1.4 \*35mm

Write By: Mr. zhou

Issued Date: 2024-4-8

### customer:

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

### supplier

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

# Product Specification

## A. Electrical Characteristics

**Frequency** 2400MHz ~2500MHz

**VSWR** <3.0

**Efficiency** >20%

**Impedance** 50 Ohm

**Gain** 0.59DBi

**Polarization mode:** linear polarization

## B. Material & Mechanical Characteristics

**Material of Radiator** Cu

**Cable Type:** 1.0 red

**Connector Type** : NO

**Dimension**

## C. Environmental

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

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

# Test Equipment & Conditions

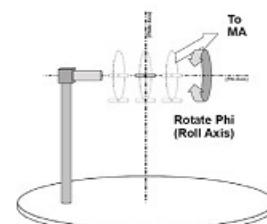
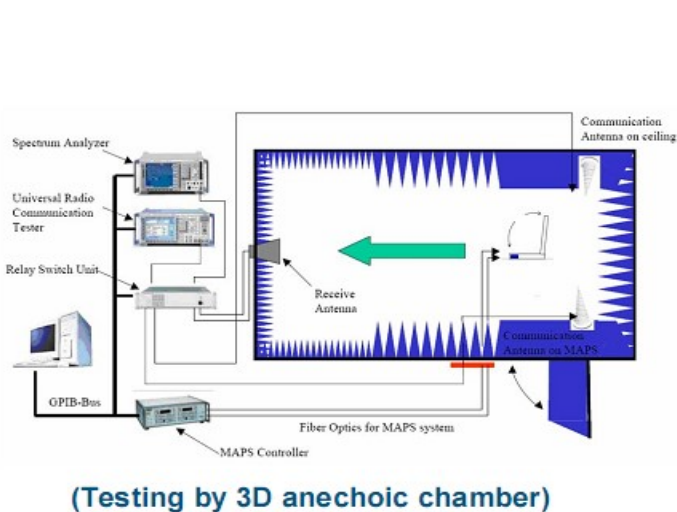
## 1. Network Analyzers :

Agilent 8753D 5071B

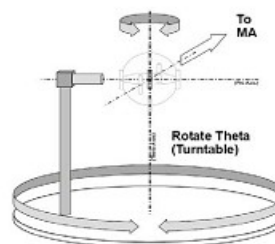
## 2. Communications Test Set:

Agilent E5515C

## 3. 3D Chamber Test System



**Phi axis test**



**Theta axis test**

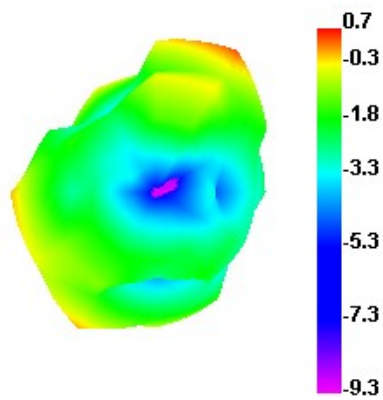


## Effiency &Gain

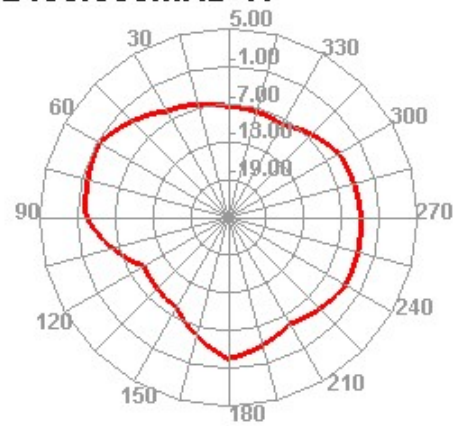
| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 23.66       | 0.47          |
| 2410          | 23.19       | 0.38          |
| 2420          | 23.03       | 0.49          |
| 2430          | 22.41       | 0.42          |
| 2440          | 21.67       | 0.45          |
| 2450          | 20.24       | 0.52          |
| 2460          | 20.61       | 0.51          |
| 2470          | 21.41       | 0.59          |
| 2480          | 23.89       | 0.56          |
| 2490          | 26.46       | 0.53          |
| 2500          | 25.73       | 0.46          |

# Radiation Pattern

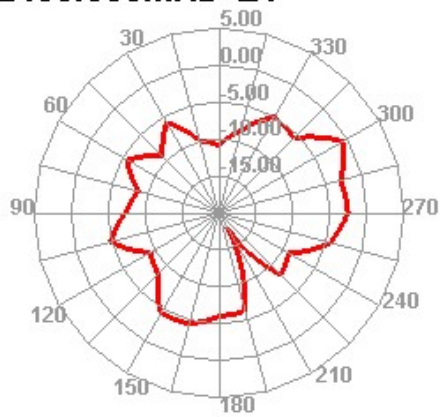
2400.000MHz



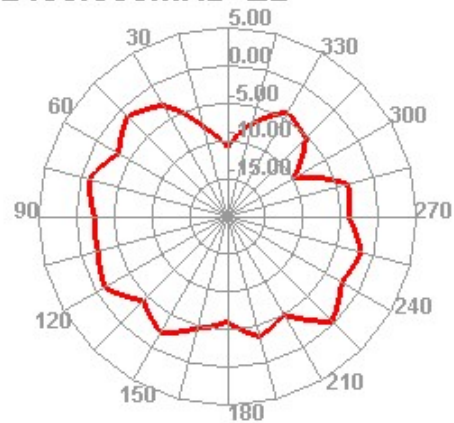
2400.000MHz H



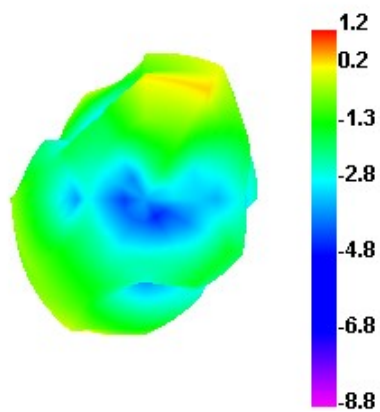
2400.000MHz E1



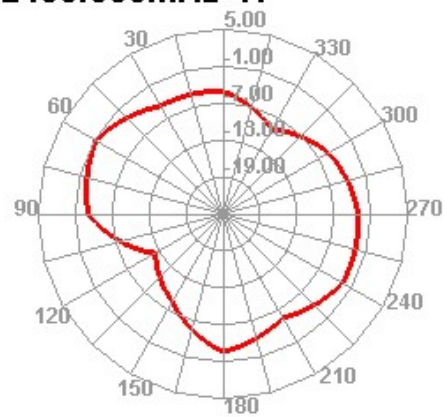
2400.000MHz E2



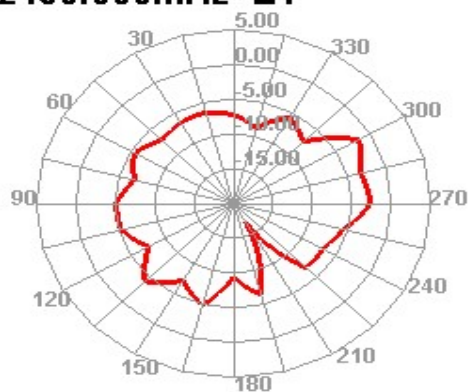
2450.000MHz



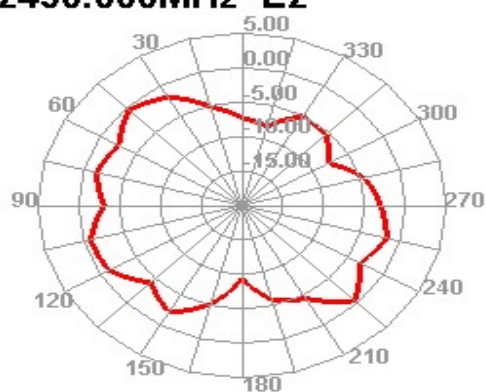
2450.000MHz H



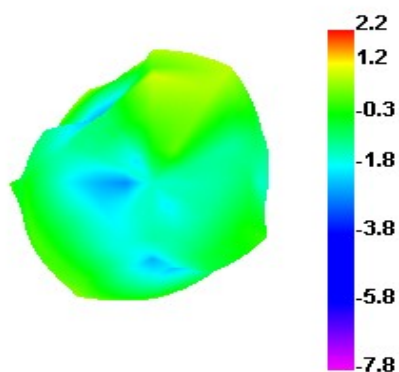
**2450.000MHz E1**



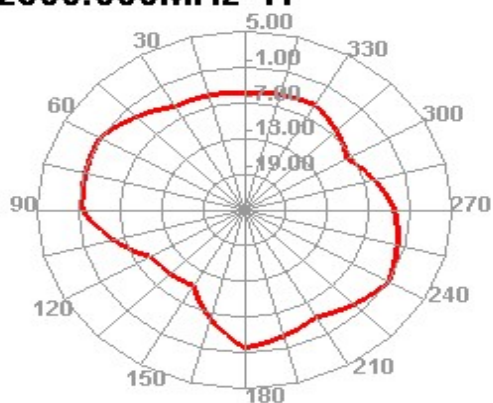
**2450.000MHz E2**



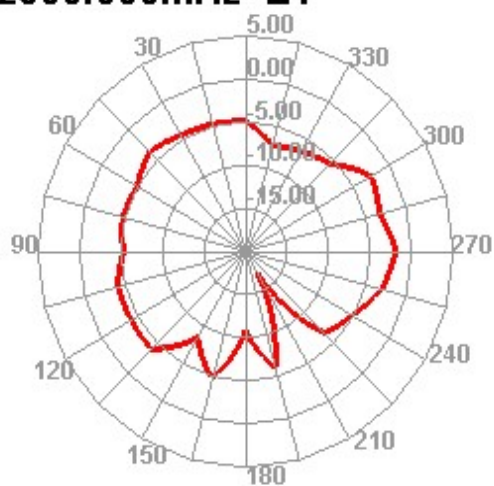
**2500.000MHz**



**2500.000MHz H**



**2500.000MHz E1**



**2500.000MHz E2**

