

# Dongzhen Electronics Co., Ltd

## Antenna Specification for Approval

Customer Name: Wandi Electronics

Product Name: 2.4G antenna

Part NO. : 19PIN\*0.12\*1.4PVC

Write By: Mr. zhou

Issued Date: 2019-3-8

Address of Manufacturer: 4 / F, Shangpin Technology Building,  
Nanlong Street, Jinfeng Residential Committee, Xincuo Liao,  
Longhu District, Shantou City

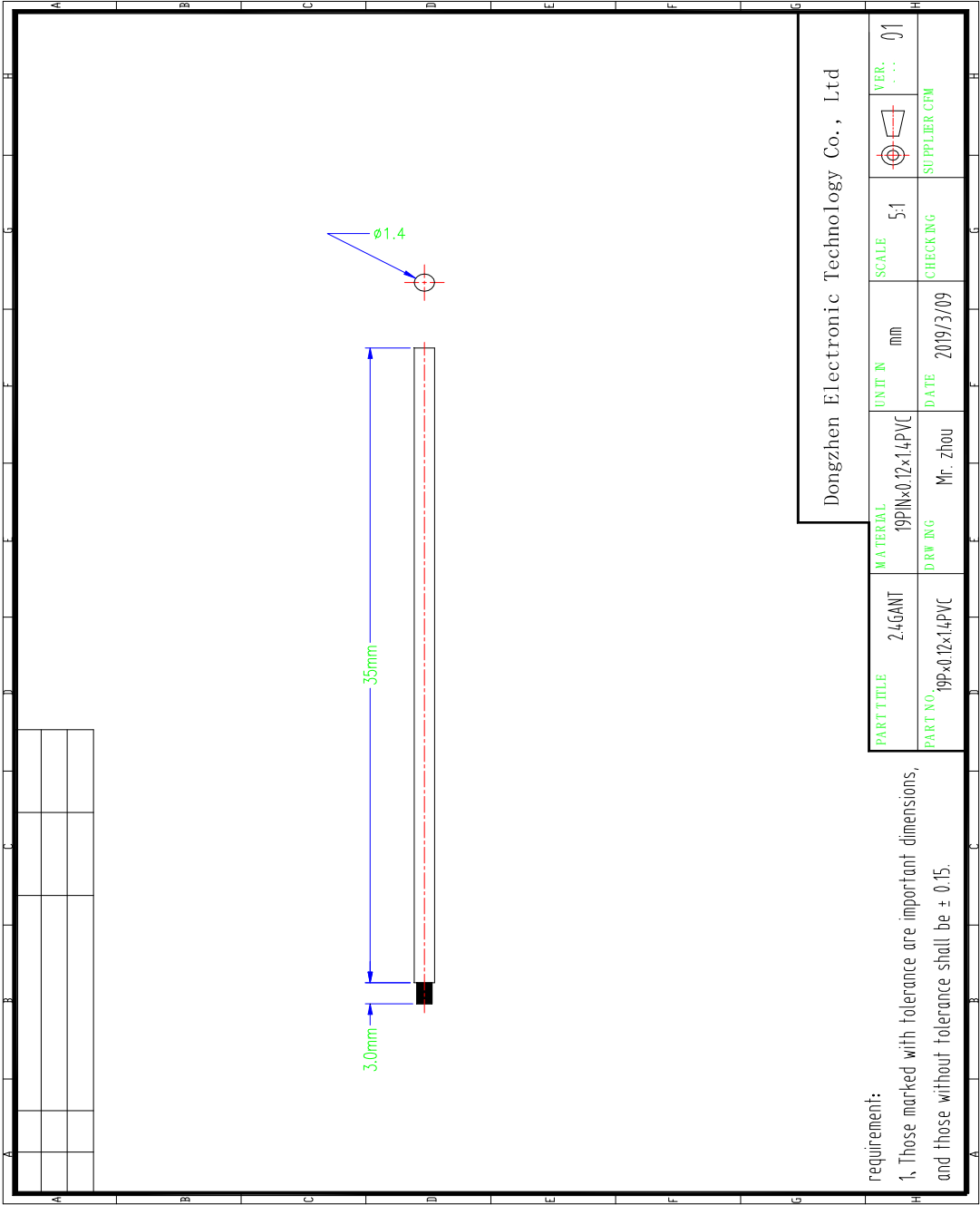
### customer:

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

### supplier

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

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Product Specification

- A. Electrical Characteristics
- Frequency 2402MHz ~2480MHz
- VSWR <3.0
- Efficiency >20%
- Impedance 50 Ohm
- Polarization Line
- Gain 0.17DBi

## B. Material & Mechanical Characteristics

### Material of Radiator Cu

Cable Type 1.4 white

Connector Type : NO

### Dimension

## C. Environmental

Operation Temperature - 30 °C ~ + 80 °C

Storage Temperature - 30 °C ~ + 85 °C

## Test Equipment & Conditions

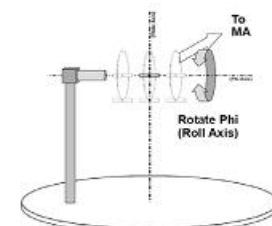
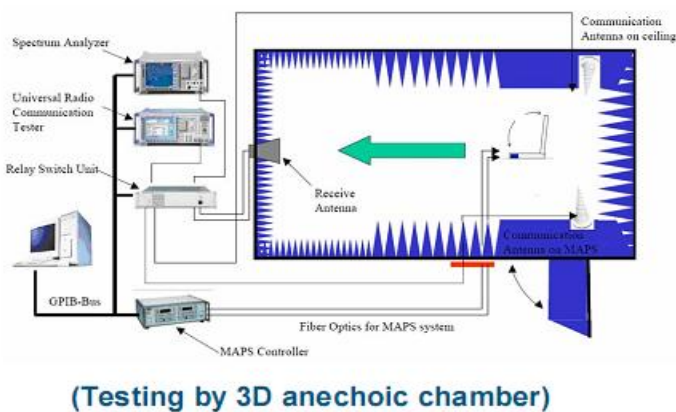
### 1. Network Analyzers :

Agilent 8753D 5071B

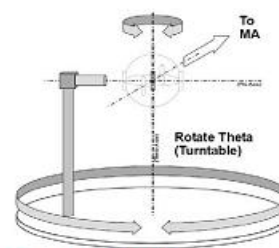
### 2. Communications Test Set:

Agilent E5515C

### 3. 3D Chamber Test System



Phi axis test



Theta axis test

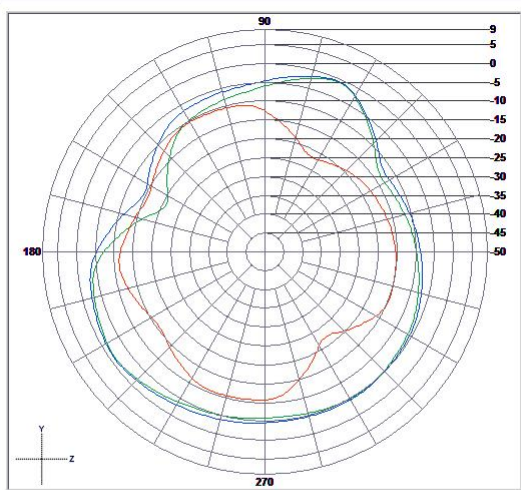
## Gain

2.40 -0.01

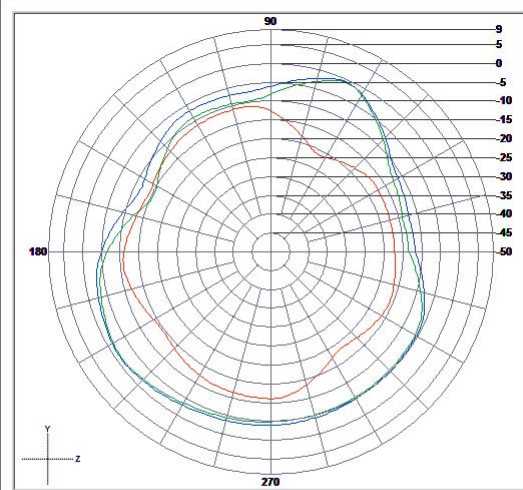
2.440 0.12

2.48 0.17

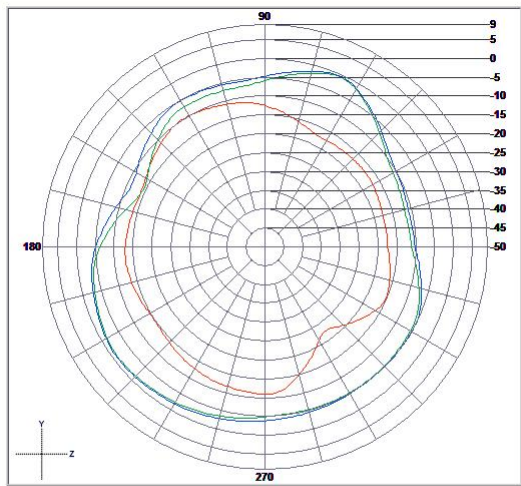
## Radiation Pattern:



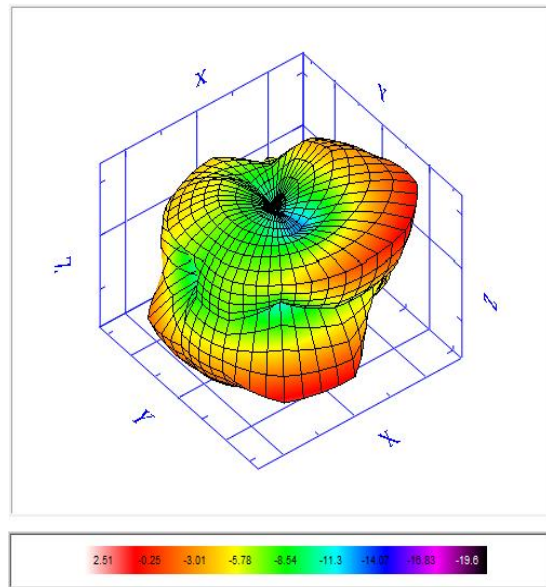
|           | Vertical | Horizontal | Total |
|-----------|----------|------------|-------|
| Avg. Gain | -13.14   | -5.08      | -4.45 |
| Peak Gain | -10.08   | -0.03      | -0.01 |



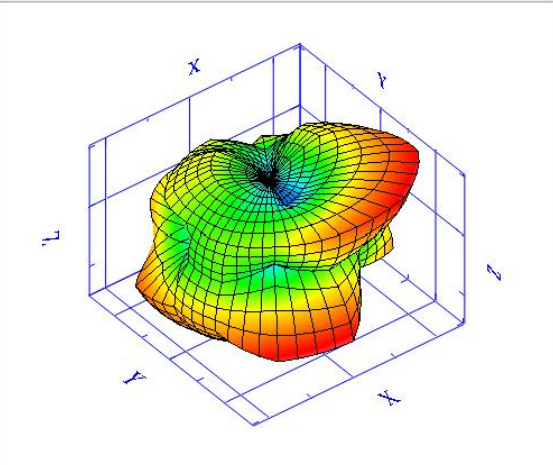
|           | Vertical | Horizontal | Total |
|-----------|----------|------------|-------|
| Avg. Gain | -13.34   | -5.06      | -4.46 |
| Peak Gain | -10.3    | 0.09       | 0.12  |



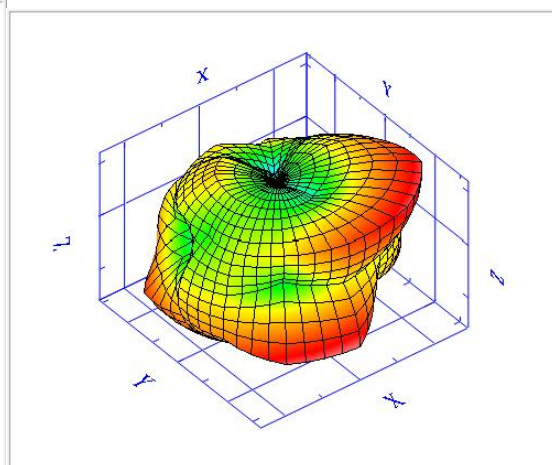
|           | Vertical | Horizontal | Total |
|-----------|----------|------------|-------|
| Avg. Gain | -13.42   | -4.6       | -4.06 |
| Peak Gain | -9.47    | 0.1        | 0.17  |



2.51 -0.25 -3.01 -5.78 -8.54 -11.3 -14.07 -16.83 -19.6



2.12 -0.3 -2.73 -5.15 -7.58 -10.01 -12.44 -14.86 -17.29



1.98 -0.58 -3.14 -5.7 -8.26 -10.81 -13.37 -15.93 -18.49