

# Test Report

## 一、Test environment:

|                      |           |
|----------------------|-----------|
| Temperature          | 24℃       |
| Humidity             | 55%RH     |
| Atmospheric pressure | 100.04kPa |

## 二、Sample information:

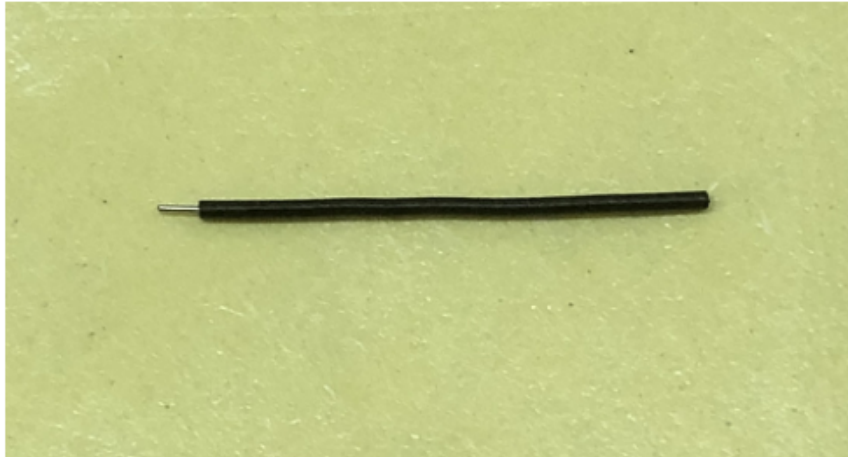
|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Product name         | 2.4G ANT                                                        |
| Specification Size   | 11.65mm x 4.7mm x 0.8mm                                         |
| Test Project         | Standing Wavebie: Gain; Radiation efficiency; Radiation pattern |
| Frequency Band Range | 2400-2500MHZ                                                    |
| Test Data            | 2020.09.01                                                      |

### 三、Test Results

#### 1. Antenna Specification

| ITEM                 | ANT SPEC                         |                                    |
|----------------------|----------------------------------|------------------------------------|
| Polarization         | Horizontal                       |                                    |
| Center Frequency     | 2400 MHZ<br>2450 MHZ<br>2500 MHZ | -0.71 dBi<br>1 dBi<br>-3.22 dBi    |
| Polarization         | Vertical                         |                                    |
| Center Frequency     | 2400 MHZ<br>2450 MHZ<br>2500 MHZ | -0.53 dBi<br>-1.10 dBi<br>-3.99dBi |
| Azimuth Beam Pattern | Omni-directional                 |                                    |
| Impedance            | 50 $\Omega$                      |                                    |
| Antenna Length       | 11.65mm                          |                                    |

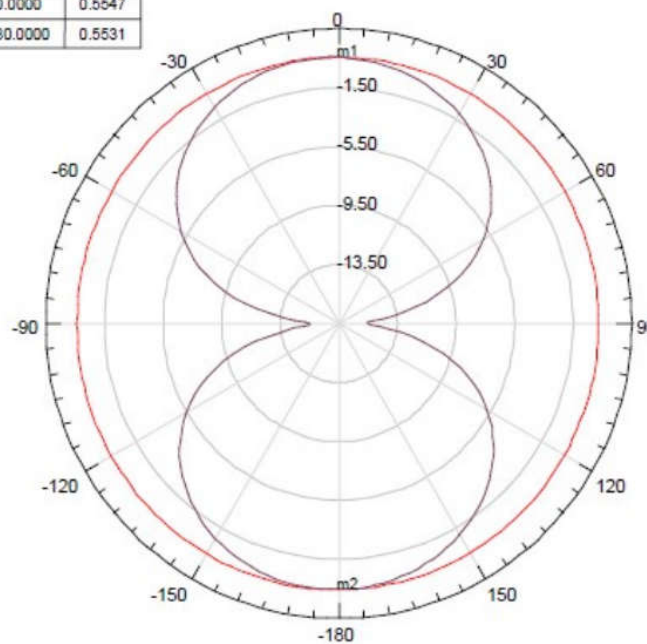
## 2. Antenna Photo & Length



Long: 20mm, diameter: 0.6mm

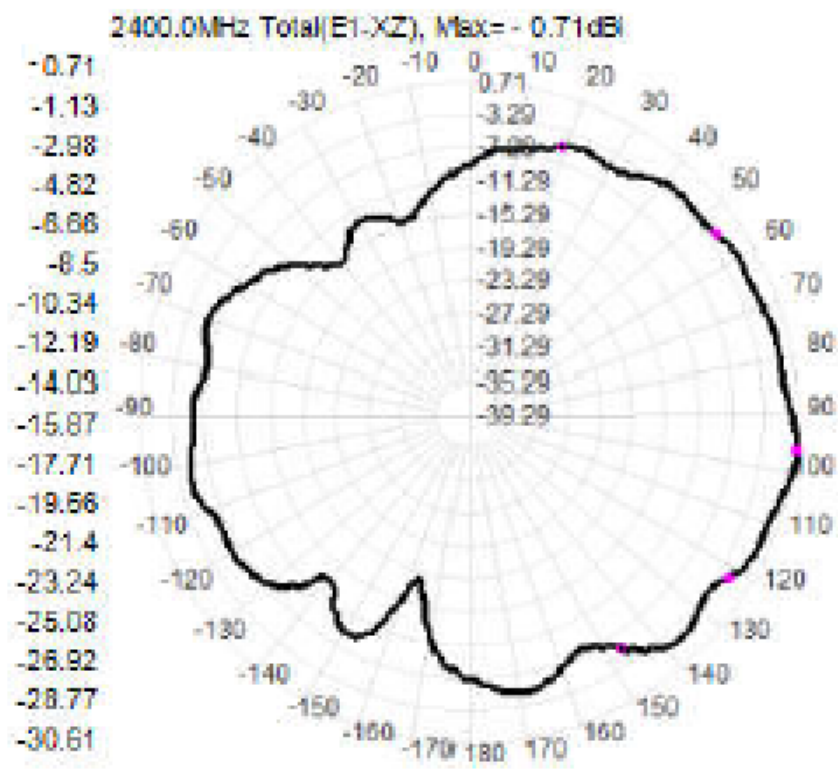
## 3. Directed graph

| Name | Theta    | Ang      | Mag    |
|------|----------|----------|--------|
| m1   | 0.0000   | 0.0000   | 0.5547 |
| m2   | 180.0000 | 180.0000 | 0.5531 |

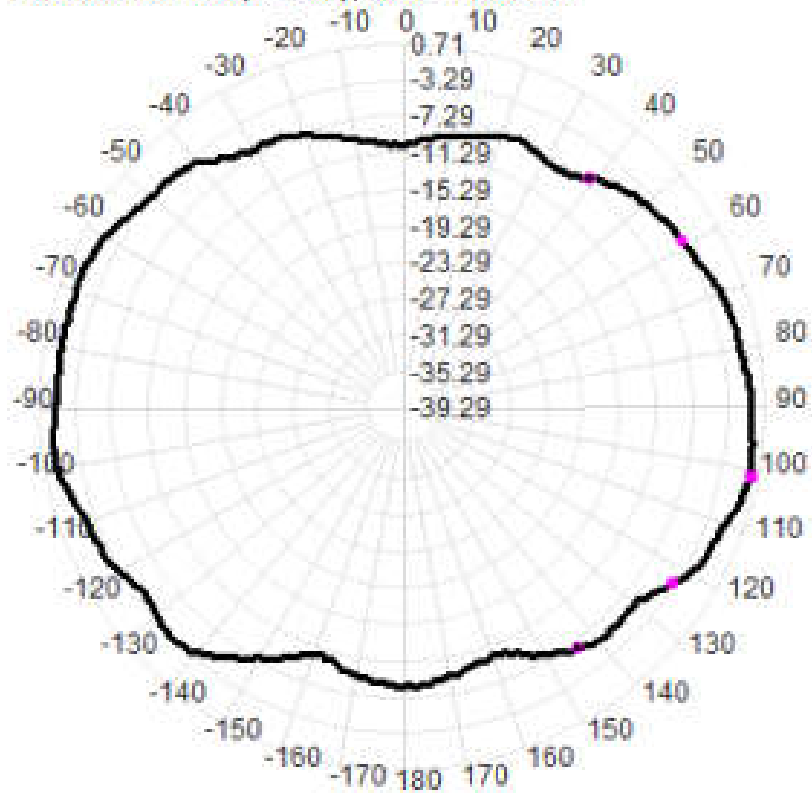


| Curve Info      |
|-----------------|
| dB(GainTotal)   |
| Setup1 : Sweep1 |
| Phi='0deg'      |
| dB(GainTotal)   |
| Setup1 : Sweep1 |
| Phi='90deg'     |

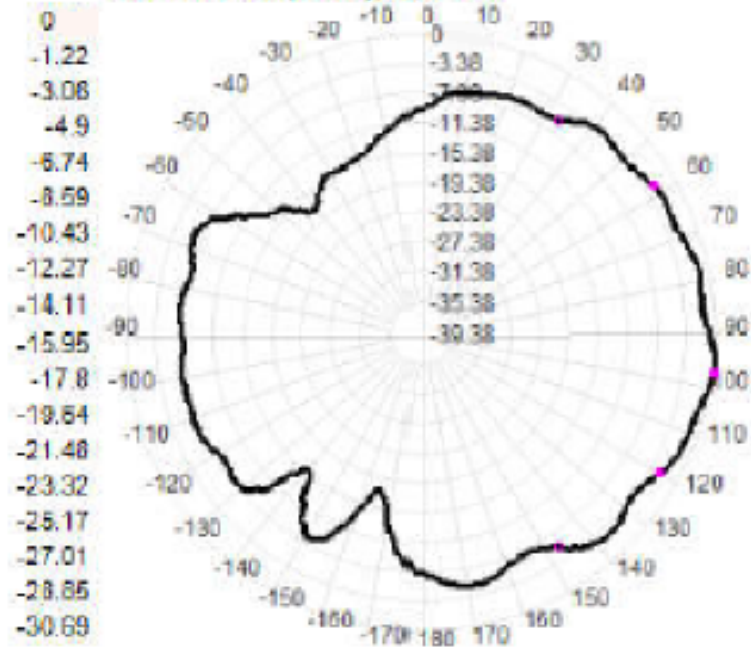
#### 4.Test Datas



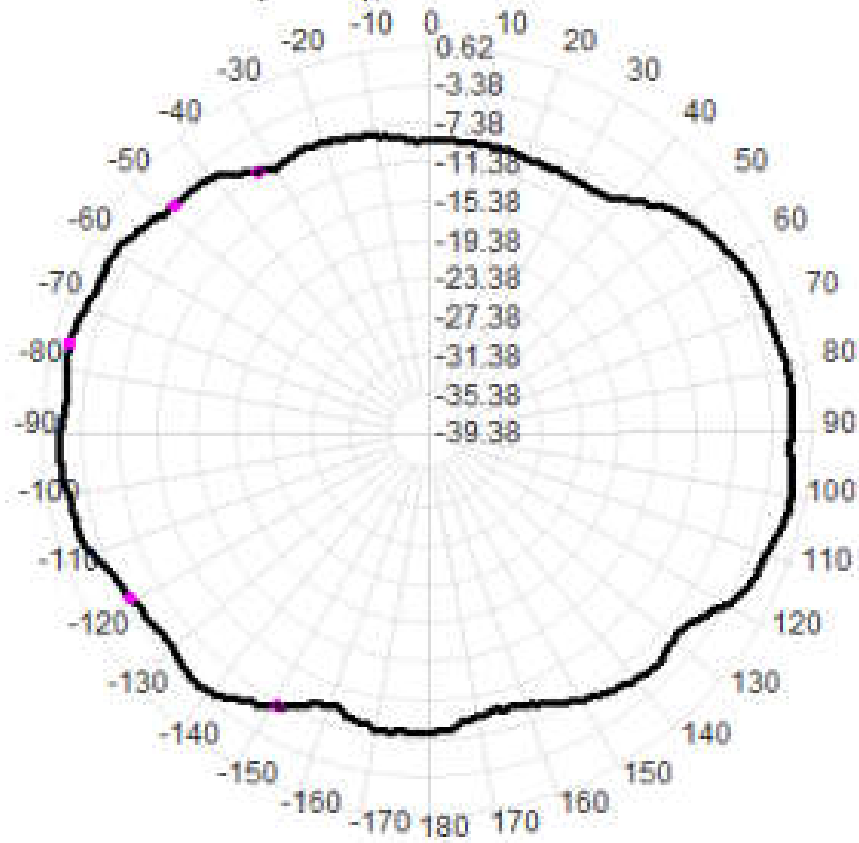
2400.0MHz Total(E2-YZ), Max= -0.53dBi



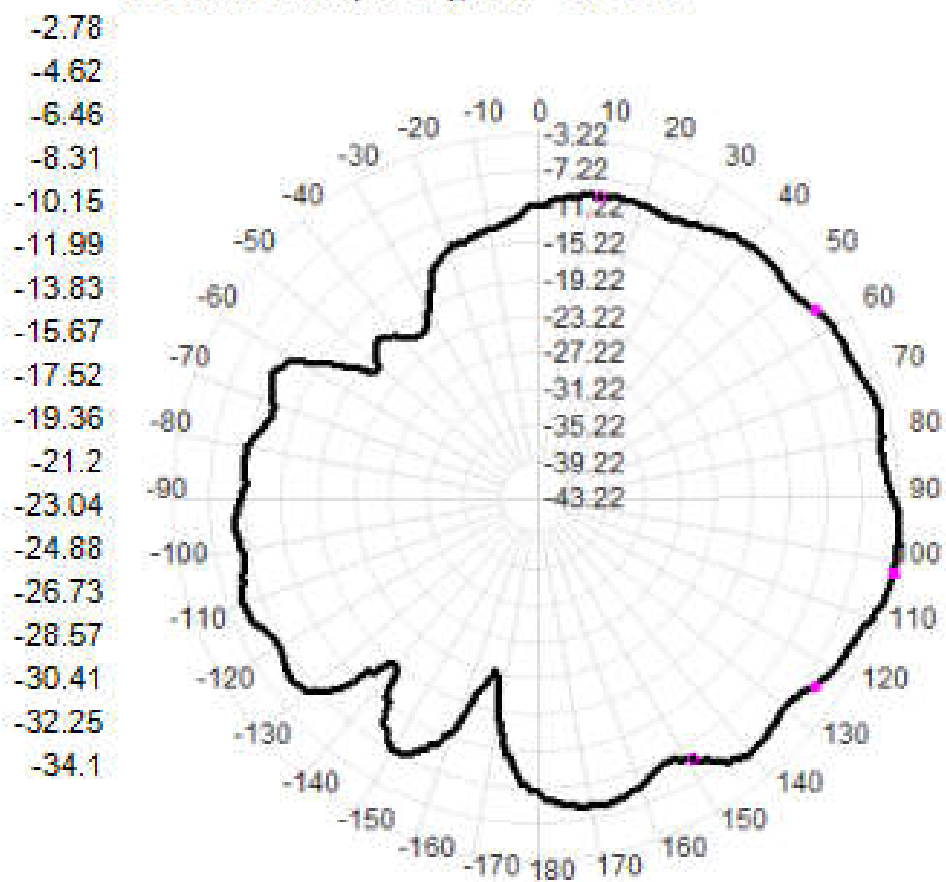
2450.0MHz Total(E1-XZ), Max= 1dBi



2450.0MHz Total(E2-YZ), Max= -1.10dBi



2500.0MHz Total(E1-XZ), Max= -3.22dBi



2500.0MHz Total(E2-YZ), Max= -3.99dBi

