



# Shenzhen DBT Telecommunication Technology CO.,LTD

## Antenna Testing Report

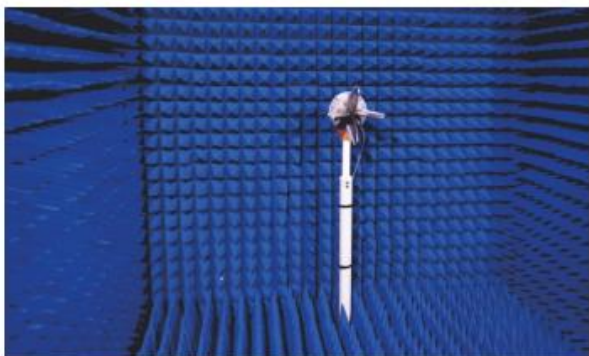
Client: Guangdong Welland Technology Co., Ltd.

Project: FG2540WB-B

Antenna standard: BT

Contact information: TELL: 0755-83763273 FAX:  
0755-83763348 Email:  
dbt1668@163.com Address: Building 8,  
Building 505, Yungu Phase II, Pingshan 1st  
Road, Xili Town, Nanshan District, Shenzhen

# 1. Test Equipment

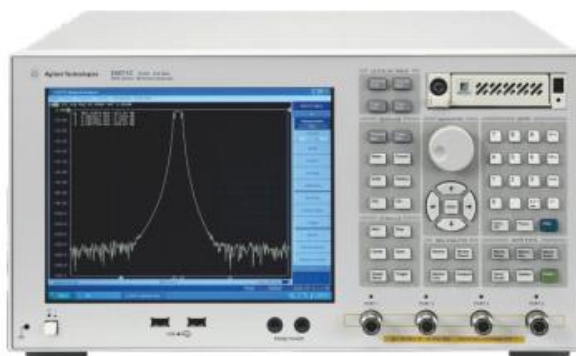


OTA-800

Brand: ETS 

Frequency range: 370MHz-8.5GHz

Features: passive、active test; G net、C net、2G/3G/4G, WIFI and BT, TRP、TIS test.



5071C

Brand: Agilent 

Frequency range: 9KHz-8.5GHz

Features: 2G/3G/4G/BT/WIFI antenna comprehensive passive test.



8960

Brand: Agilent

Frequency range: 292MHz-2700GHz

Features: 2G/3G active test.



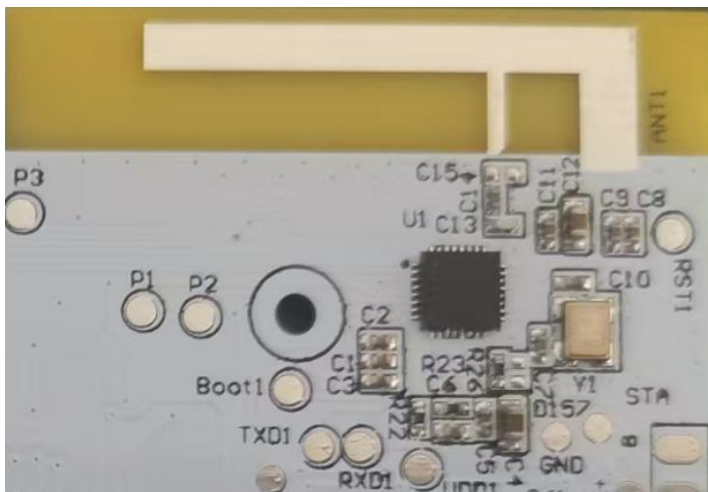
CMW500

Brand: Rohde & Schwarz

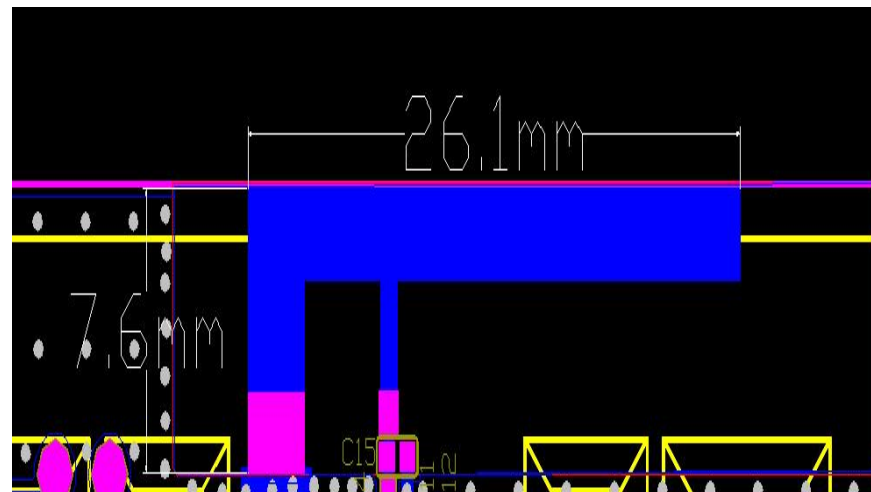
Frequency range: 70KHz-6GHz

Features: 2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test.

### 3. Antenna assembly position



实物图



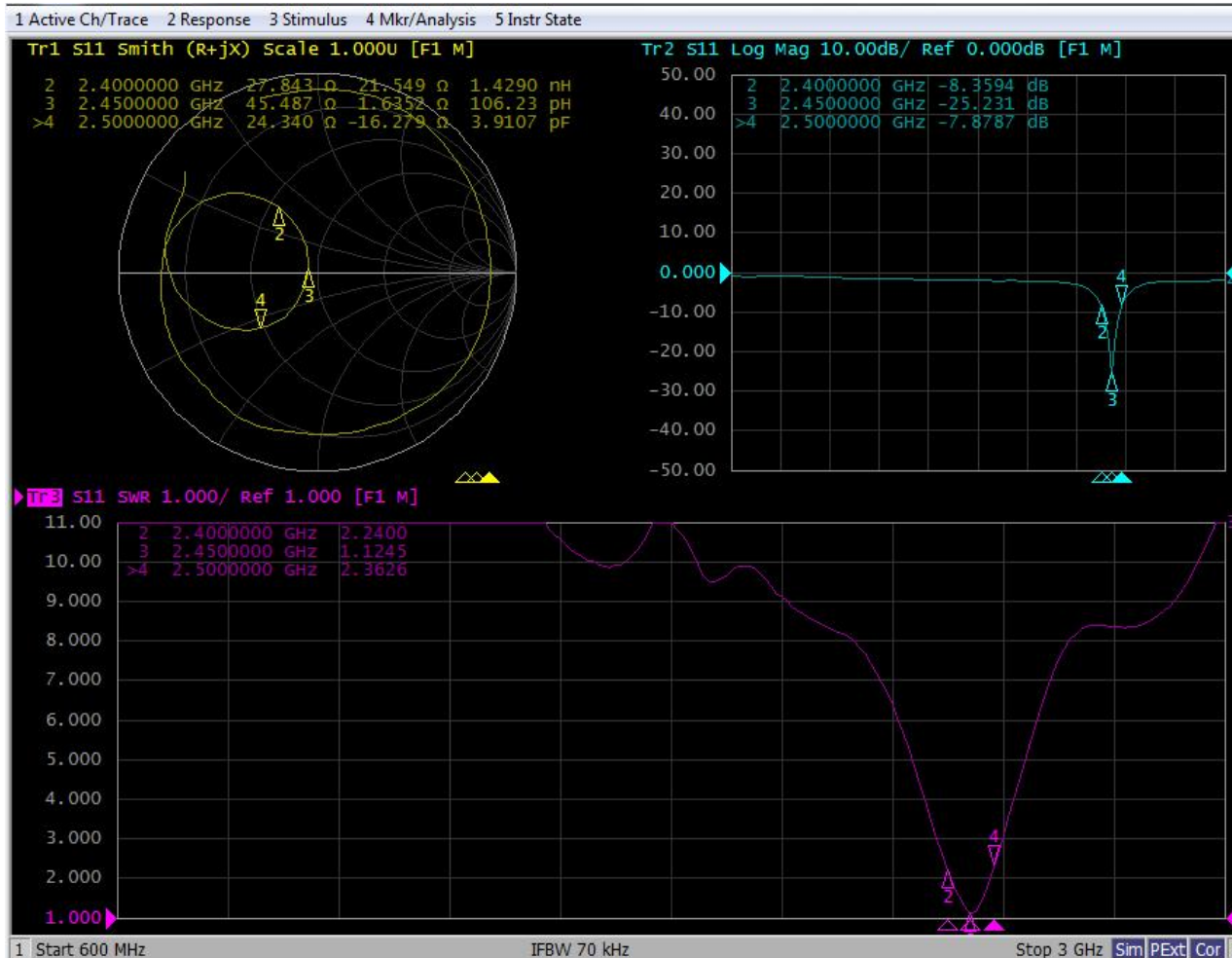
天线尺寸

## 4.Electrical Parameter



| 电性能指标 Electrical Parameter |                             |           |
|----------------------------|-----------------------------|-----------|
| 频率范围(MHz)                  | Frequency Range (MHz)       | 2400~2500 |
| 电压驻波比                      | VSWR                        | ≤7.0      |
| 输入阻抗( $\Omega$ )           | Input Impedance( $\Omega$ ) | 50        |
| 增益(dBi)                    | Gain(dBi)                   | -0.2      |
| 极化形式(° )                   | Polarization(° )            | vertical  |
| 最大功率(W)                    | Max power(W)                | 10        |
| 天线类型                       | Antenna Type                | Monopole  |
| 工作温度(°C)                   | Working Temperature(°C)     | -40~+80   |

# 5.Antenna Passive Data



# 6.Antenna Gain/Efficiency/3D Apple Chart



| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 16.72       | -0.88         |
| 2410          | 18.33       | -0.48         |
| 2420          | 19.9        | -0.29         |
| 2430          | 20.68       | -0.2          |
| 2440          | 20.73       | -0.24         |
| 2450          | 20.02       | -0.37         |
| 2460          | 18.4        | -0.81         |
| 2470          | 18.76       | -0.58         |
| 2480          | 18.35       | -0.91         |
| 2490          | 18          | -0.78         |
| 2500          | 16.09       | -1.54         |

# 6.Antenna Gain/Efficiency/3D Apple Chart

