



# 深圳市迪比通通讯设备有限公司

SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

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## Antenna Specification

Antenna Manufacturer: SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

Address: Rm505, 8th building, Yungu 2nd period, pingshan No.1 Road, Xili Town,Nanshan District, ShenZhen , China

Antenna Model: N03.10.03.101

Antenna Type: FPC Antenna

Antenna Gain: 2.4G: 1.94dBi, 5G: 3.01dBi

Frequency Rang: 2400-2500MHz, 4900-5900MHz

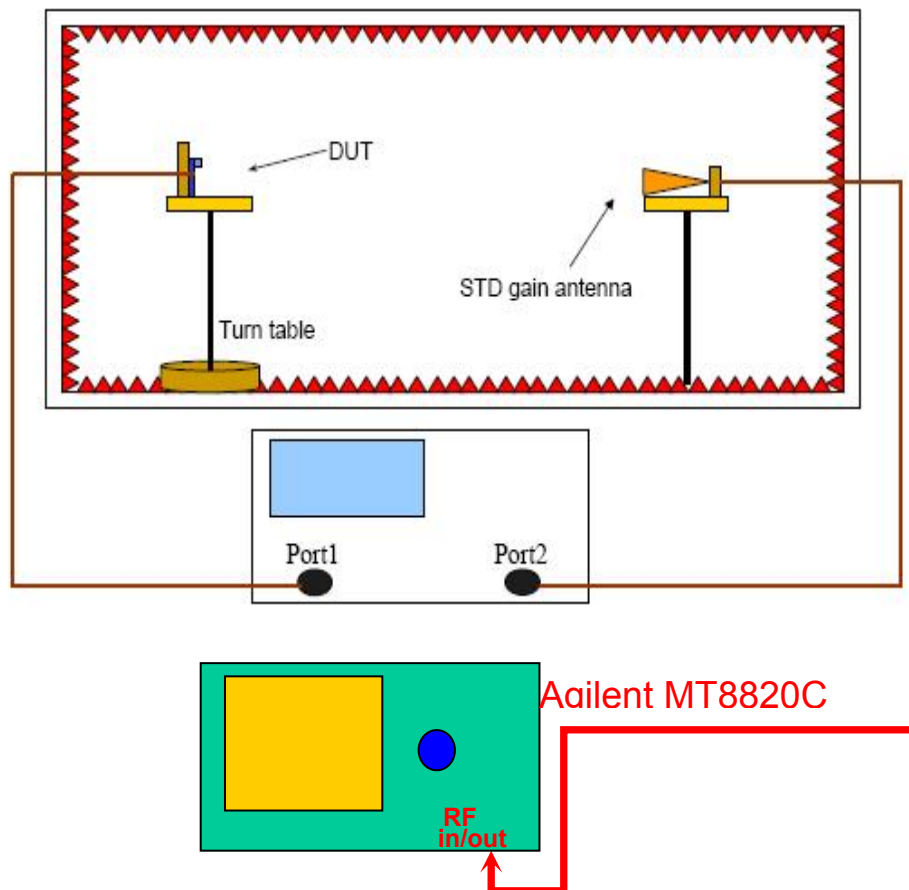
VSWR  $\leq$  2

Impedance: 50  $\Omega$

## 1.ynamic test instructions - Antennas are placed in electronic scales

Testing instrument :

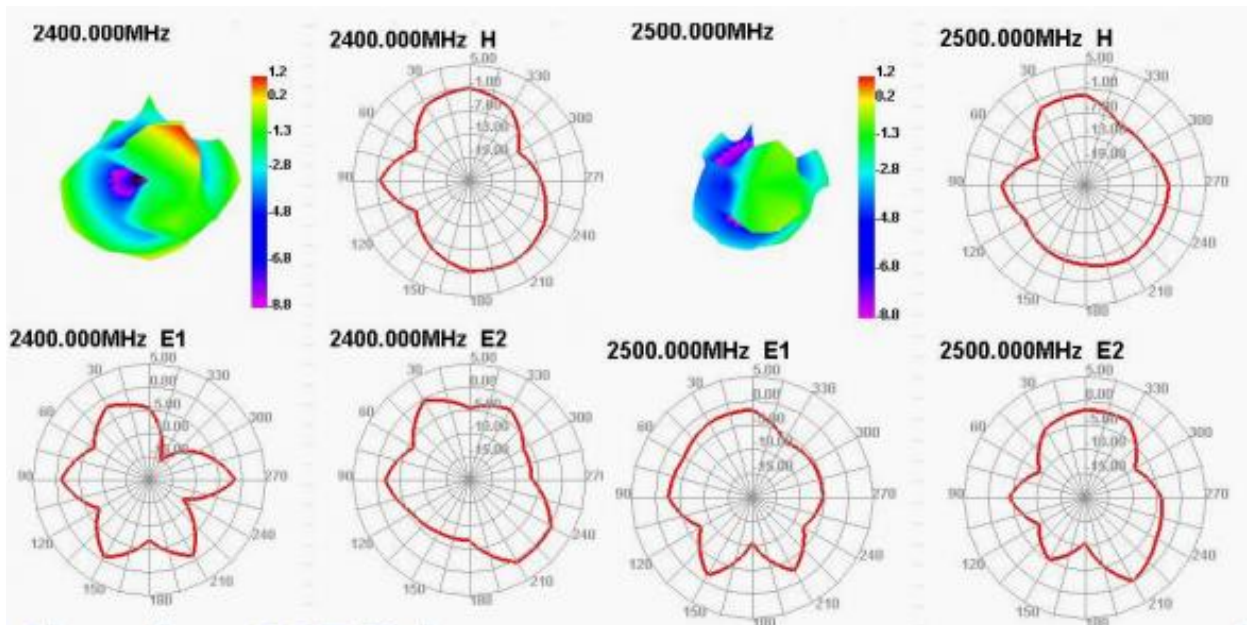
Anrits CMW500+ Anechoic Chamber 6X4X3m(3D-OTA)

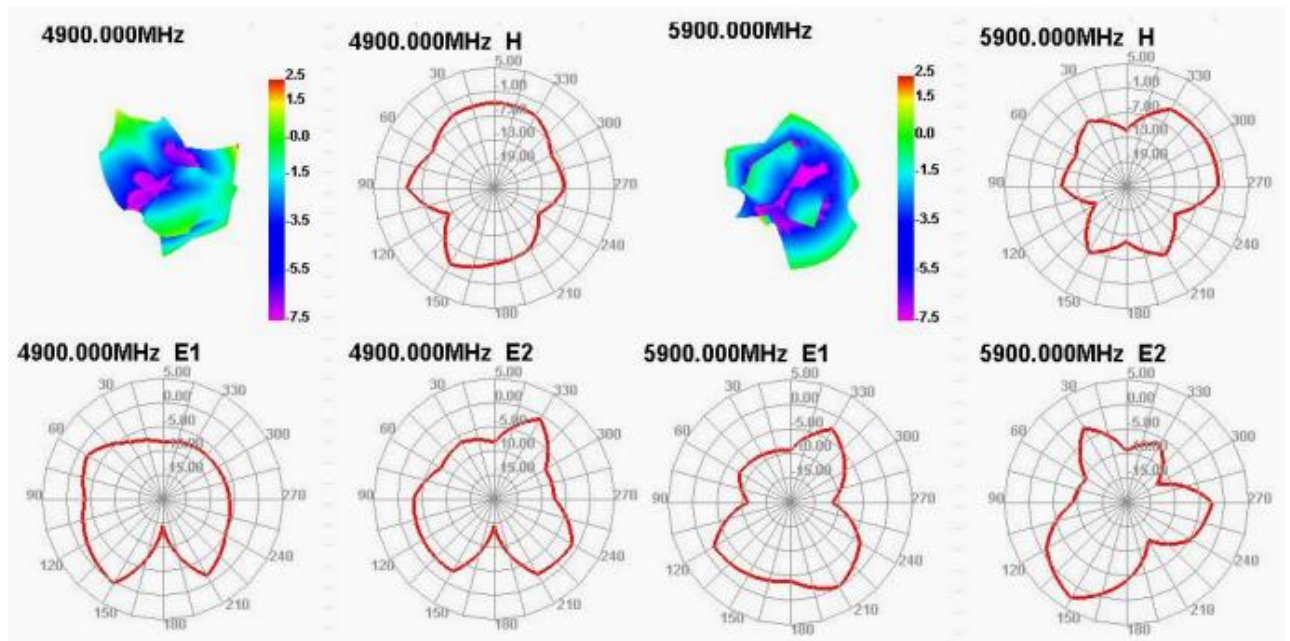


## 2. ntenna test report

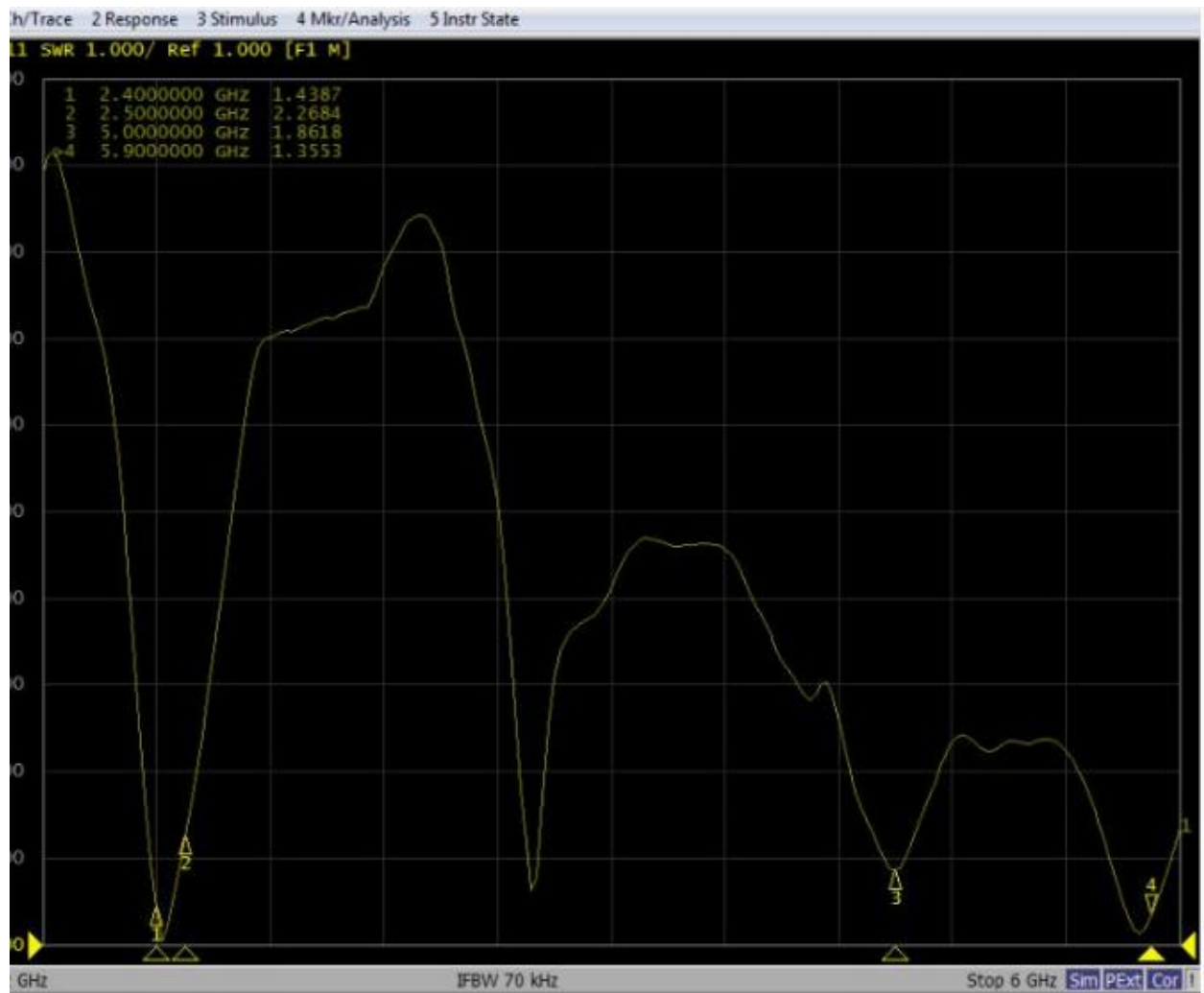
### 2.1 Passive Efficiency/Gain/Pattern

| Freq (MHz) | Effi (%) | Gain (dBi) | Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|------------|----------|------------|
| 2400       | 45.17    | 1.19       | 4900       | 42.05    | 2.47       |
| 2410       | 43.79    | 1.31       | 5000       | 41.97    | 1.97       |
| 2420       | 46.45    | 1.35       | 5100       | 38.14    | 1.43       |
| 2430       | 50.24    | 1.92       | 5200       | 32.65    | 1.38       |
| 2440       | 48.62    | 1.67       | 5300       | 30.69    | 1.04       |
| 2450       | 46.08    | 1.94       | 5400       | 29.03    | -0.91      |
| 2460       | 37.02    | 0.98       | 5500       | 38.5     | 1.66       |
| 2470       | 39.01    | 1.25       | 5600       | 40.15    | 2.16       |
| 2480       | 37.76    | 1.12       | 5700       | 45.77    | 2.38       |
| 2490       | 39.5     | 1.3        | 5800       | 50.96    | 3.01       |
| 2500       | 36.85    | 1.15       | 5900       | 42.04    | 2.53       |





## 2.2 WIFI-S11-SWR



The figure is a technical drawing of a PCB, divided into two main sections: '正面' (Front View) on the left and '背胶面' (Back View) on the right. The front view shows a rectangular board with dimensions 47.30±0.15 (width) and 61±1.0 (length). It features a central horizontal slot with a '白色丝印' (white silk screen) label 'VAL11-WIFI-DBT-VI'. Two circular features are labeled '1' and '2'. The back view shows a similar board with a '背面离型纸断开线' (back release paper break line) and a '手撕耳' (hand-tear ear) feature. A table at the bottom provides specifications for the PCB, including material, dimensions, and manufacturing details.

**正面**

**背胶面**

| 序号 | 名称  | 规格                                       | 说明 | 颜色 | 用量 | 备注     |
|----|-----|------------------------------------------|----|----|----|--------|
| ②  | 同轴线 | H代端子, $\phi$ 1.13线径, 长度61MM              |    | 黑色 | 1  | 端子扣口朝下 |
| ①  | FPC | 47.30mm $\times$ 11.40mm $\times$ 0.12mm |    | 黑色 | 1  |        |

**技术要求:**

- 打\*为重点尺寸, 未标尺寸参考2D图纸, 其它尺寸以实配为准;
- 基材25  $\mu$ m, 铜泊18  $\mu$ m;
- 区域为走线区域, 区域为焊盘区域, 区域为不要背胶区域, 为附胶区域(3M300LSE);
- FPC表面油墨需均匀, 不可有起皱不良等现象;
- 同轴线不可有短路, 外被划伤等不良;
- 天线焊点需饱满, 无虚焊, 漏焊等不良;
- 产品符合RoHS要求。

**深圳市迪比通通讯设备有限公司**

| 第三角法  | 机种         | 品名          | 天线组件 | 日期 | 2026/09/18 | 页码 | 1/1 |
|-------|------------|-------------|------|----|------------|----|-----|
| 10以下  | $\pm$ 0.10 | $\phi$ 0.03 |      | 设计 | 2026/09/18 | 页码 | 1/1 |
| 10~20 | $\pm$ 0.12 | $\phi$ 0.02 |      | 审核 |            |    |     |
| 20~40 | $\pm$ 0.15 | $\phi$ 0.04 |      | 确认 |            |    |     |
| 40以上  | $\pm$ 0.20 | $\phi$ 0.02 |      | 单位 |            |    |     |

外观处理

比例 1:1

版本 R:A