



深圳市昱晟通讯设备有限公司

Yusheng Communications-equipment Co.,LTD

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Antenna test report

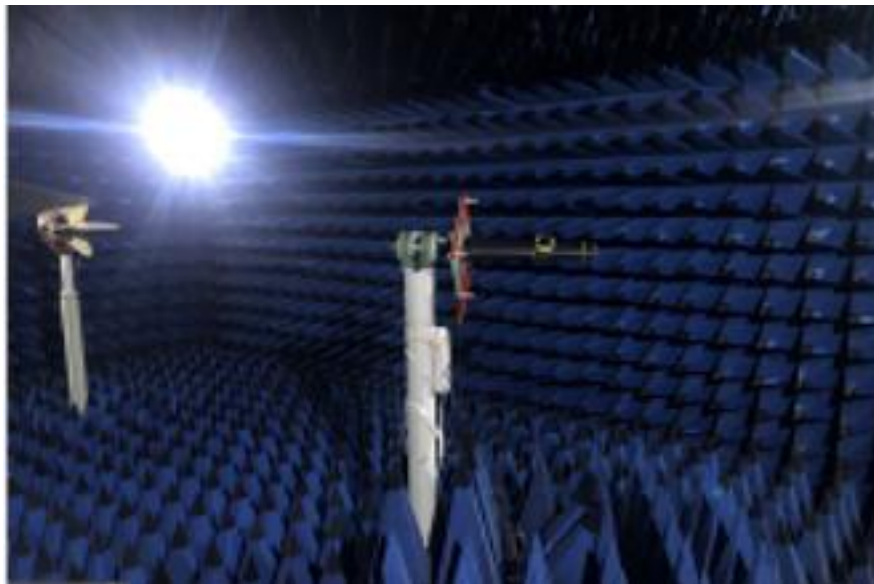
射频：贺磊

日期：2024-12-11

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Project development environment

We are moving from the Internet era to the intelligent era, and the country is building a digital society and smart cities. In the next 5-10 years, both the consumer electronics market and the Internet of Things market have huge development potential. The field of wireless communications is very diverse. In the future, Yusheng will rely on the customer platform advantages of its main antenna business and its own comprehensive strength to strive to provide customers with market-competitive professional-grade product solutions.



Yusheng Communication's products cover almost all antenna applications for wireless terminal devices, including automotive antennas, high-precision surveying and mapping antennas, UAV ground and satellite data navigation, high-precision positioning antennas, medical equipment wireless transmission, consumer antennas (mobile phone antennas, PADs, laptop computer antennas), base stations/indoor distributed antennas, smart wearable antennas (smart watches, TWS headphones), security home antennas, and a variety of smart device antennas for wireless data transmission and wireless control.

1

Project Debugging Introduction

2

Antenna passive efficiency

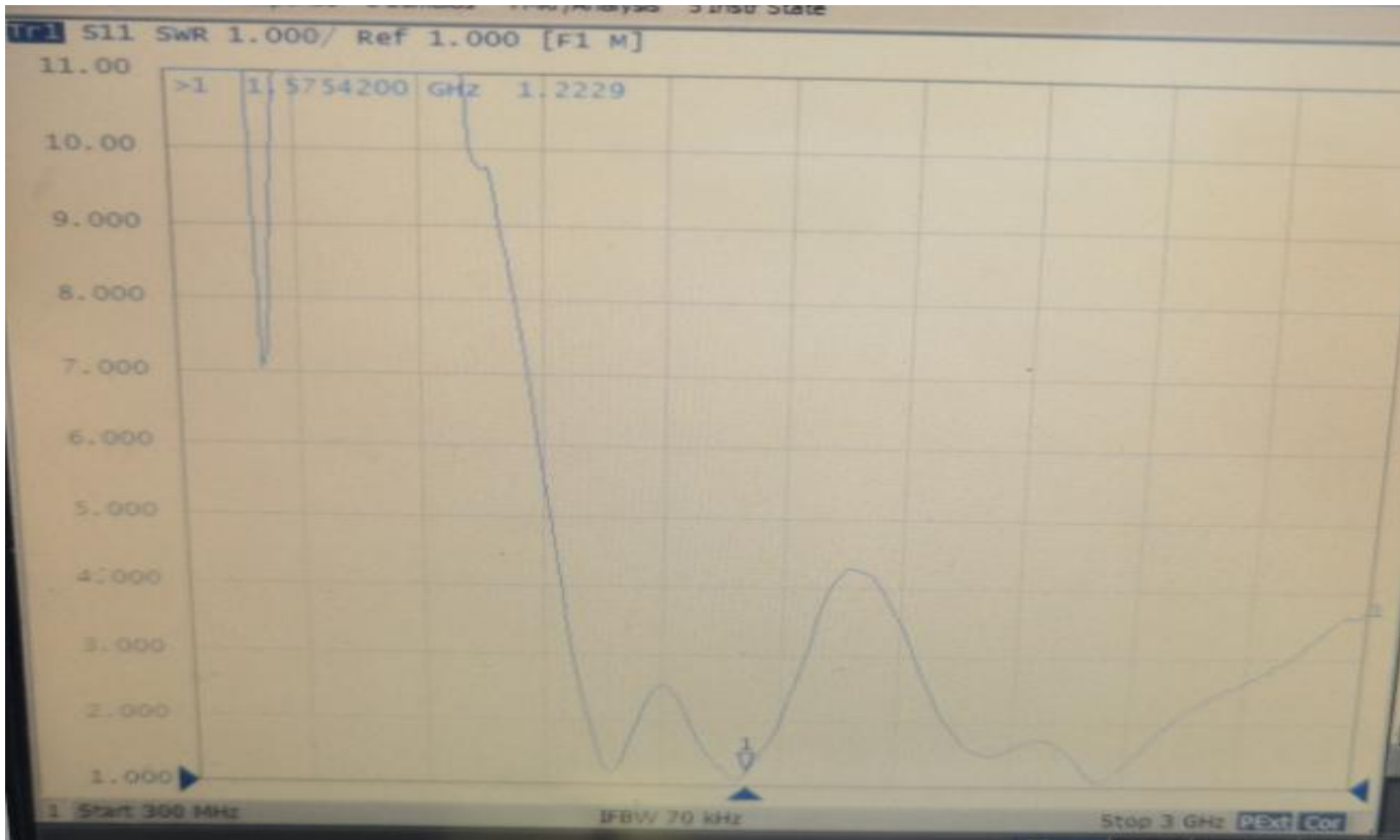
3

Direction diagram

Project Debugging Introduction

| Model | Smart watch (A2501) | | |
|--|------------------------|----------------|----------|
| Frequency band and antenna material | BT | Frequency band | Material |
| | | 2. 4G-2. 48G | / |

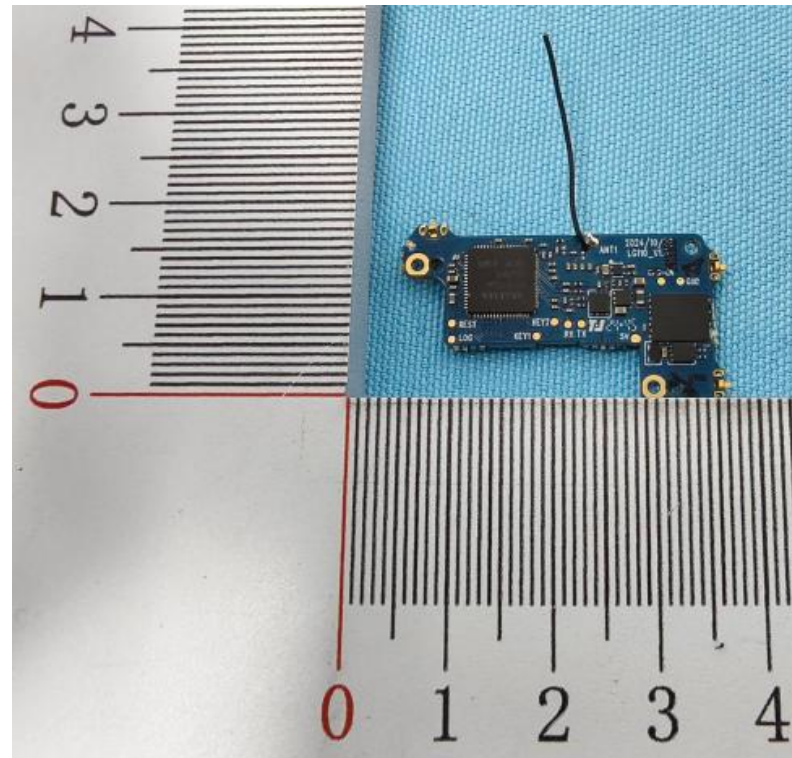
Antenna passive parameters



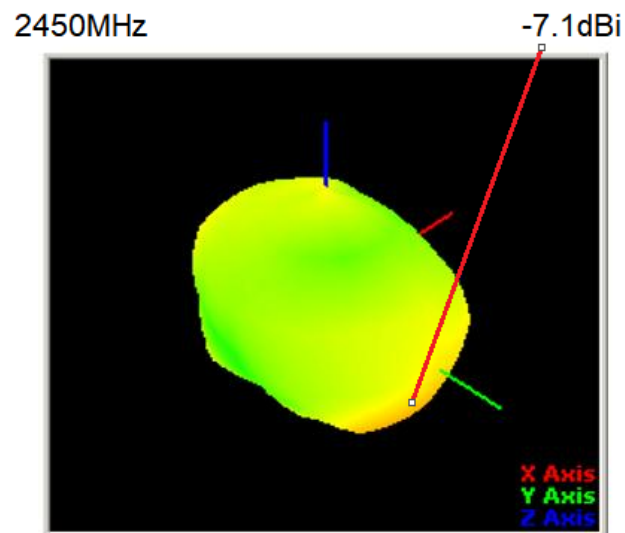
Antenna efficiency, Gain dBi

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 2400 | 3.6 | -8.6 |
| 2410 | 3.9 | -8.3 |
| 2420 | 4.2 | -7.9 |
| 2430 | 4.6 | -7.7 |
| 2440 | 4.9 | -7.4 |
| 2450 | 5.4 | -7.1 |
| 2460 | 4.8 | -7.3 |
| 2470 | 4.3 | -7.8 |
| 2480 | 3.5 | -8.4 |

Antenna size



BT-3D Plot



Thank you!



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