

Product Specification Acknowledgment

Customer Name: Asia Pacific Tianneng

Product Name: FPC WIFI Antenna

Material Code: _____

Manufacturer			date: 2025.10.10
RF Engineer	Structural Engineer	Review	Quality
Wu Zhouheng	Duan Yan	Yu Qixue	Gao Chunyan

Client side		date:
Conclusion	Confirmer	Reviewer

Address: 3rd Floor, Building 1, Friendship Building, Zone 23, Chuangye 2nd Road,
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telephone: 0755-27885738

1. Purpose

Standardize the specifications and testing methods of mobile communication terminal antenna products produced by Shenzhen Dewima Communication Equipment Co., Ltd. to avoid errors caused by different testing conditions and methods.

2. Overview of Product Categories and Models

2.1 Category

This mobile communication terminal antenna is a monopole antenna

2.2 Product Model Overview

This report mainly outlines the electrical results of the antenna designed for the [MF smart door lock](#) project.

This antenna is designed for the frequency range of [2400MHz-2500MHz](#).

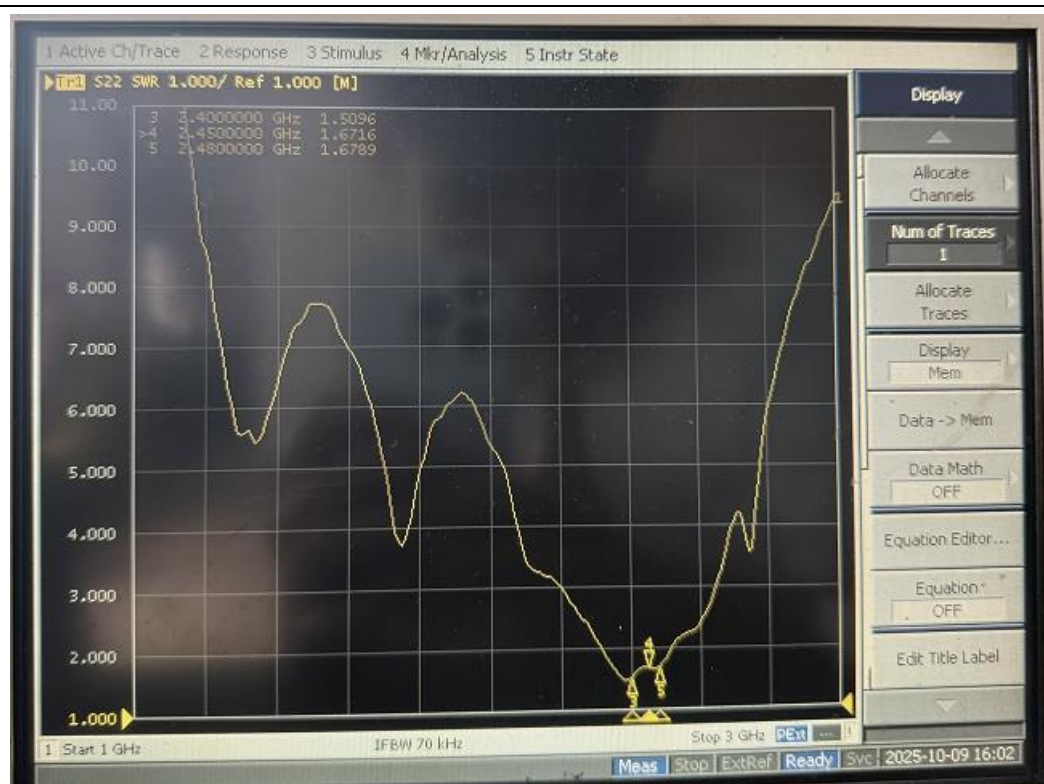
3. Technical indicators and experimental equipment

3.1 technical indicators

Product electrical performance indicators	
frequency range	2400~ 2500MHz
Standing Wave Ratio	<1.679
antenna gain	0.85~2.88dBi
Maximum radiation gain	2.88dBi
Radiation efficiency	>30%
impedance	50 Ω
Product Environment Description	
Operating Temperature	- 30°C ~ + 85 °C
Storage temperature	- 30°C ~ + 85 °C
Note: Please connect the product based on the actual installation test results	

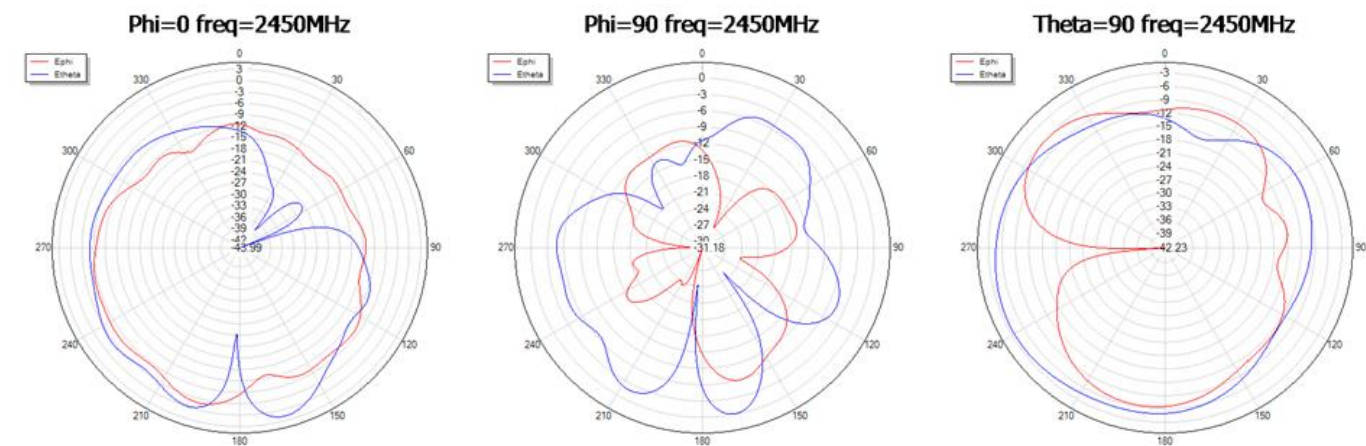
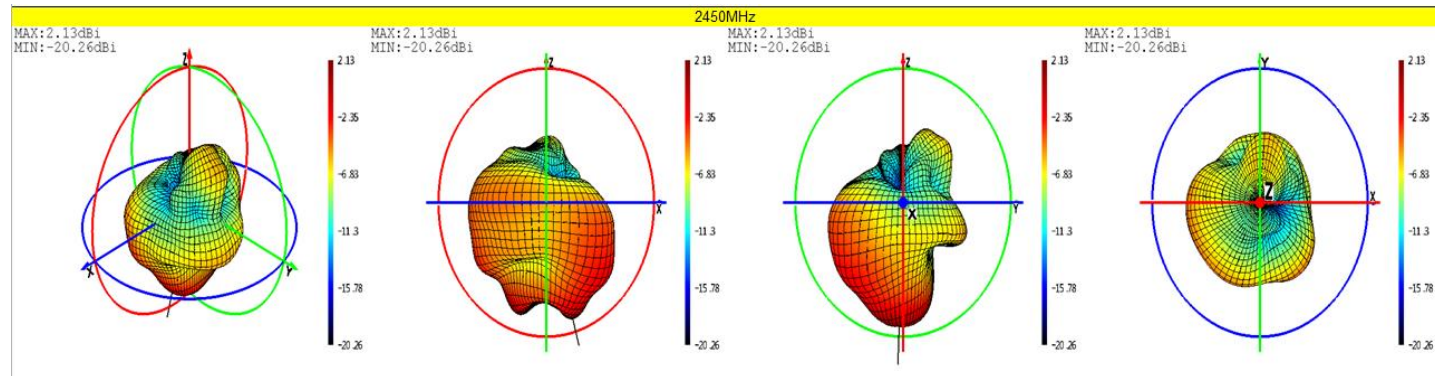
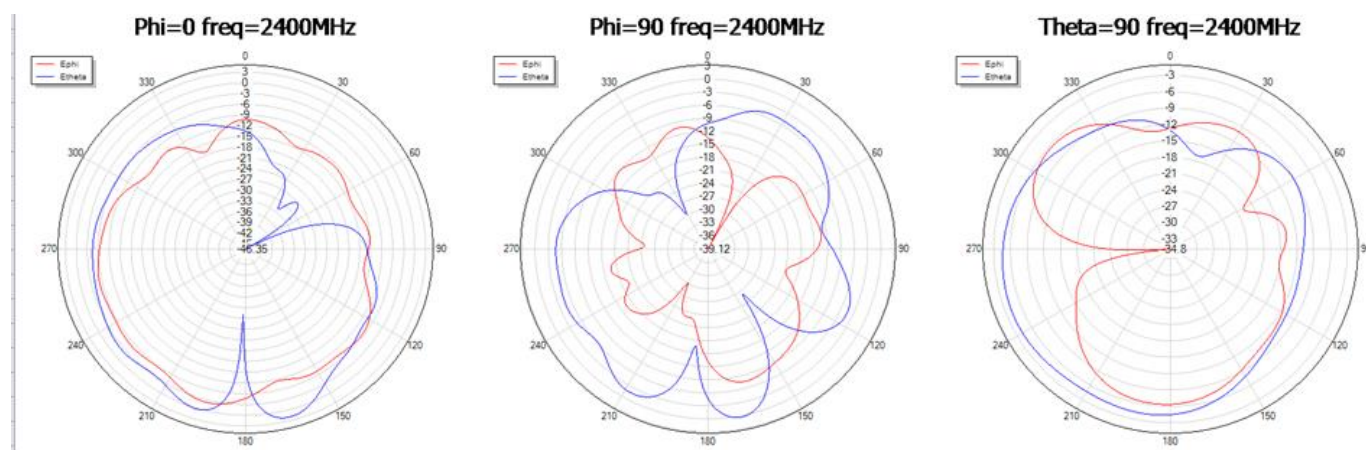
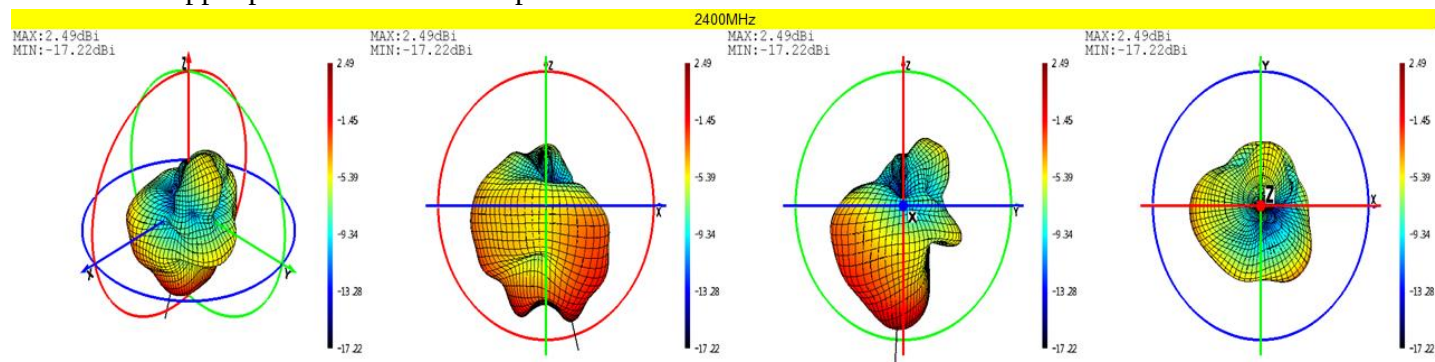
4. Antenna electrical performance parameters (standing wave ratio, gain, efficiency)

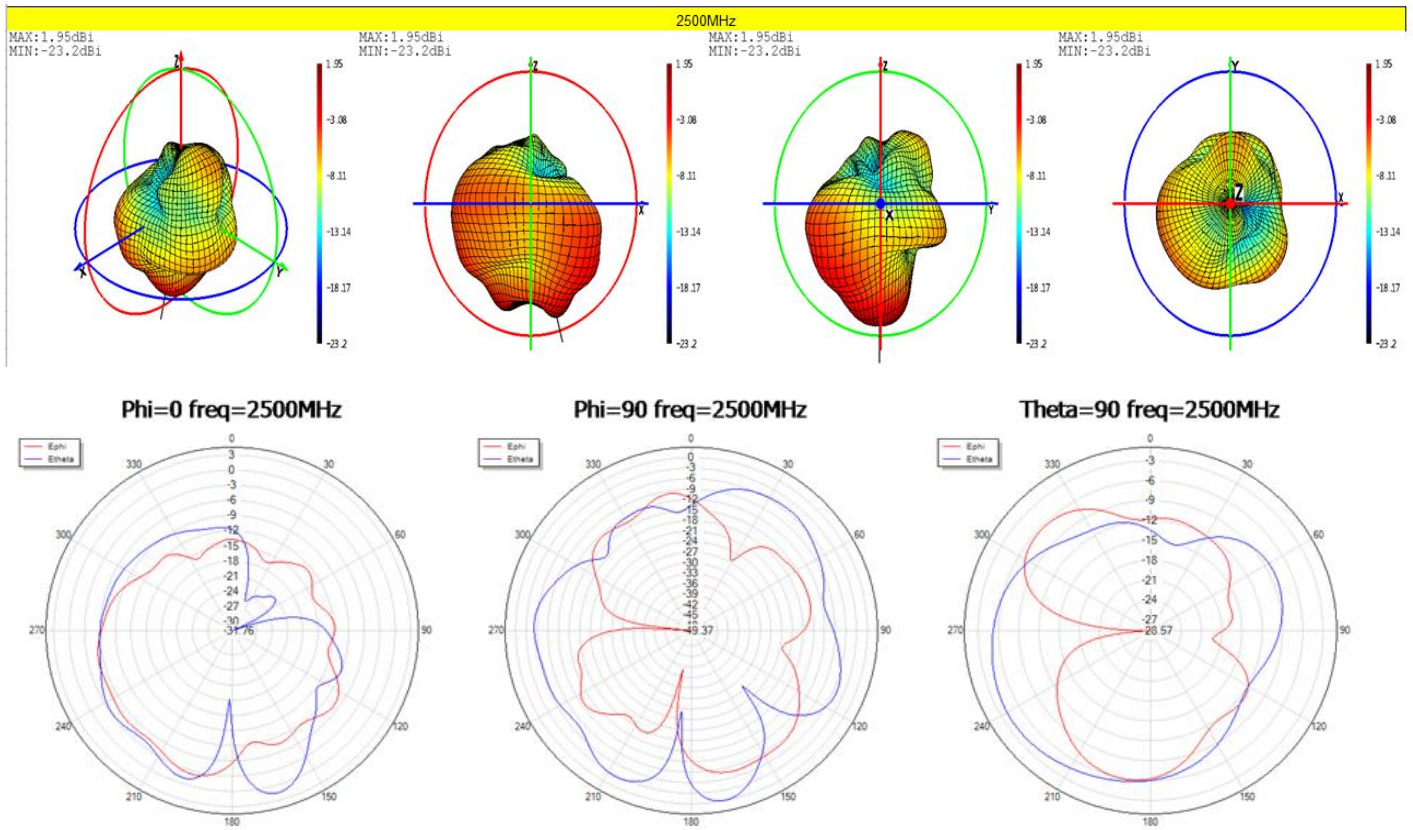
VSWR)

Efficiency
and Gain

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.00	2.49	36.33
2410.00	2.20	35.51
2420.00	2.74	37.82
2430.00	2.88	38.10
2440.00	2.60	36.90
2450.00	2.13	35.58
2460.00	1.26	34.26
2470.00	0.93	33.25
2480.00	0.85	33.21
2490.00	0.97	33.22
2500.00	1.95	36.19

4.1. Passive apple pattern/2D radiation pattern of antenna:





5. OTA testing

WiFi	2.4G		
Channel	L	M	H
TRP	19.33	19.51	18.97
TIS			-85.06

8. packaging method

Bagged shipment, 100PCS/bagged

9. Manufacturer name/address/contact information

Company Name	Shenzhen Dewima Communication Equipment Co., Ltd
address	Address: 3rd Floor, Building 1, Friendship Building, Zone 23, Chuangye 2nd Road, Bao'an, Shenzhen (Behind Ping An Bank at Exit B of Honglang North Subway)
Contact Information	0755-27885738