

Product Specification

Antenna Laboratory

Shenzhen R&D Center

Mobile Communication Terminal Antenna

Customer Name: _____ **Jihai** _____

Product Name: _____ **Pet Feeder** _____

Material Code: _____

Manufacturer			Date: April 27, 2026
Radio Frequency	Structure	Review	Quality
Chen Yueyue	Luo Weiping	Liu Hai Ping	Luo Qingzhou

Client Side		Date: Year Month Day
Conclusion	Confirming Person	Reviewer

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Product Revision Record Table

[illegible]

1. Purpose

Standardize the specifications and testing methods for mobile communication terminal antenna products produced by Zhigao IoT to avoid errors caused by differences in testing conditions and methods.

2. Overview of Product Categories and Product Models

2.1 Category

This mobile communication terminal WIFI antenna is a PIFA antenna.

2.2

Product Model Overview

This report mainly summarizes the electrical results of the antenna designed for the pet feeder project.

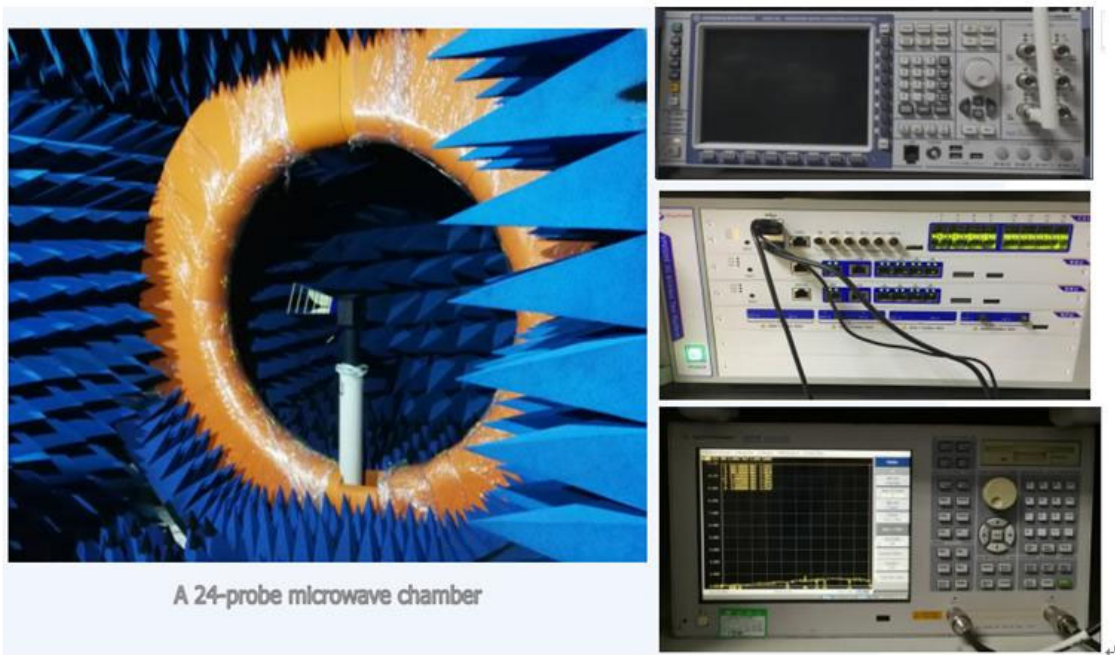
The design frequency of this antenna is: 2400MHz-2500MHz.

3. Technical Specifications and Experimental Equipment

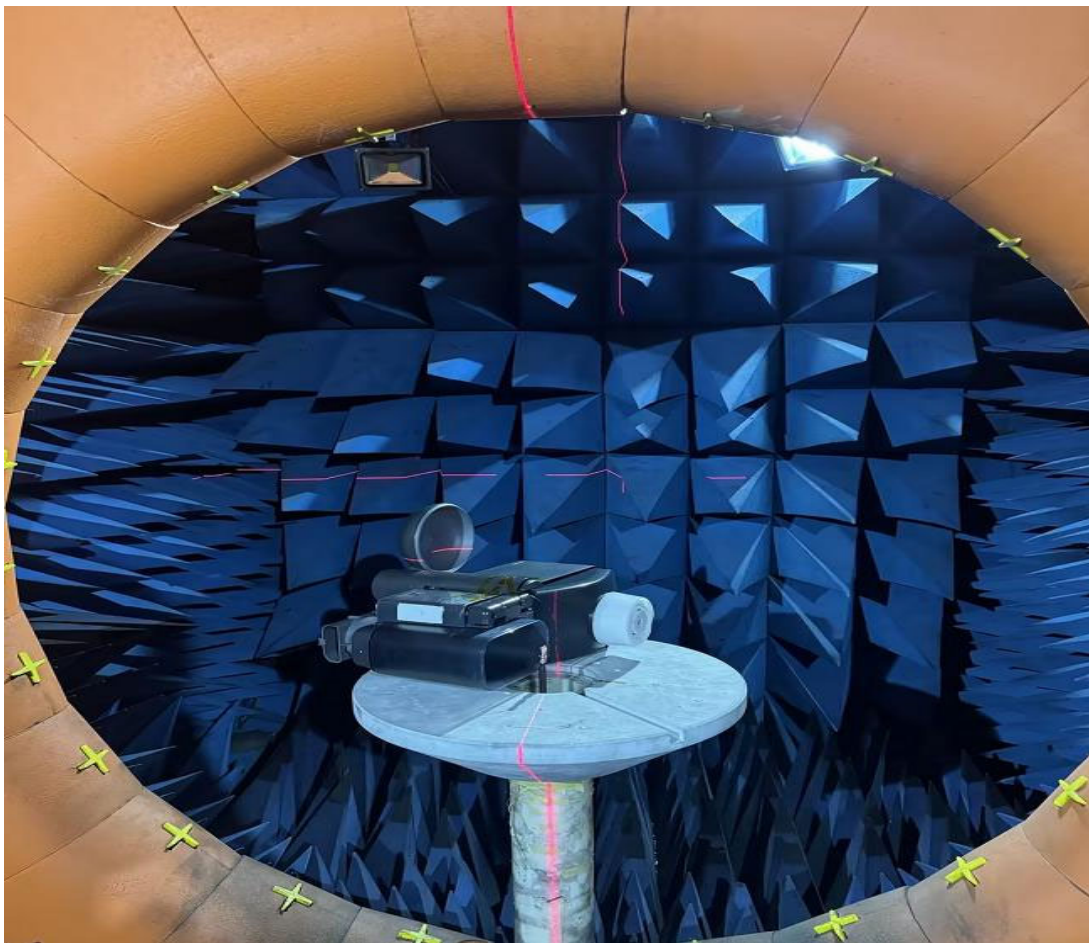
3.1 Technical Specifications

Product Electrical Performance Indicators	
Operating Frequency Range	2400~ 2500MHz
Antenna Gain	2400MHZ (5.58dbi)~ 2500MHZ(4.40dbi)
Maximum Radiation Gain	5.87dBi
Radiation Efficiency	45%-52%
Impedance	50 Ω
Product Environmental Description	
Operating temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C
Note: Please connect the product and measure the actual effect as a reference	

3.2 Instrumentation and Equipment

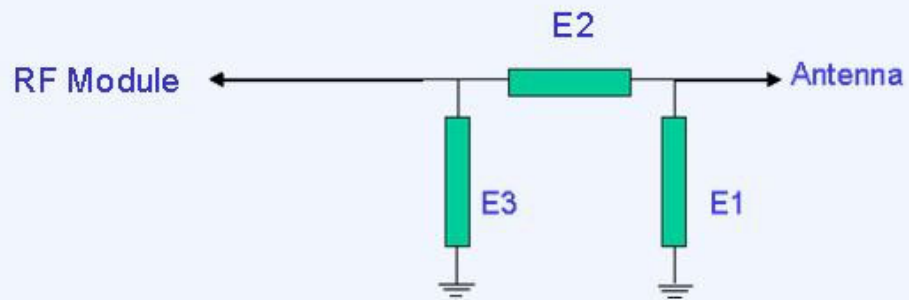


3.3 Instrumentation and Equipment Testing Environment



4. Matching Circuit Description:

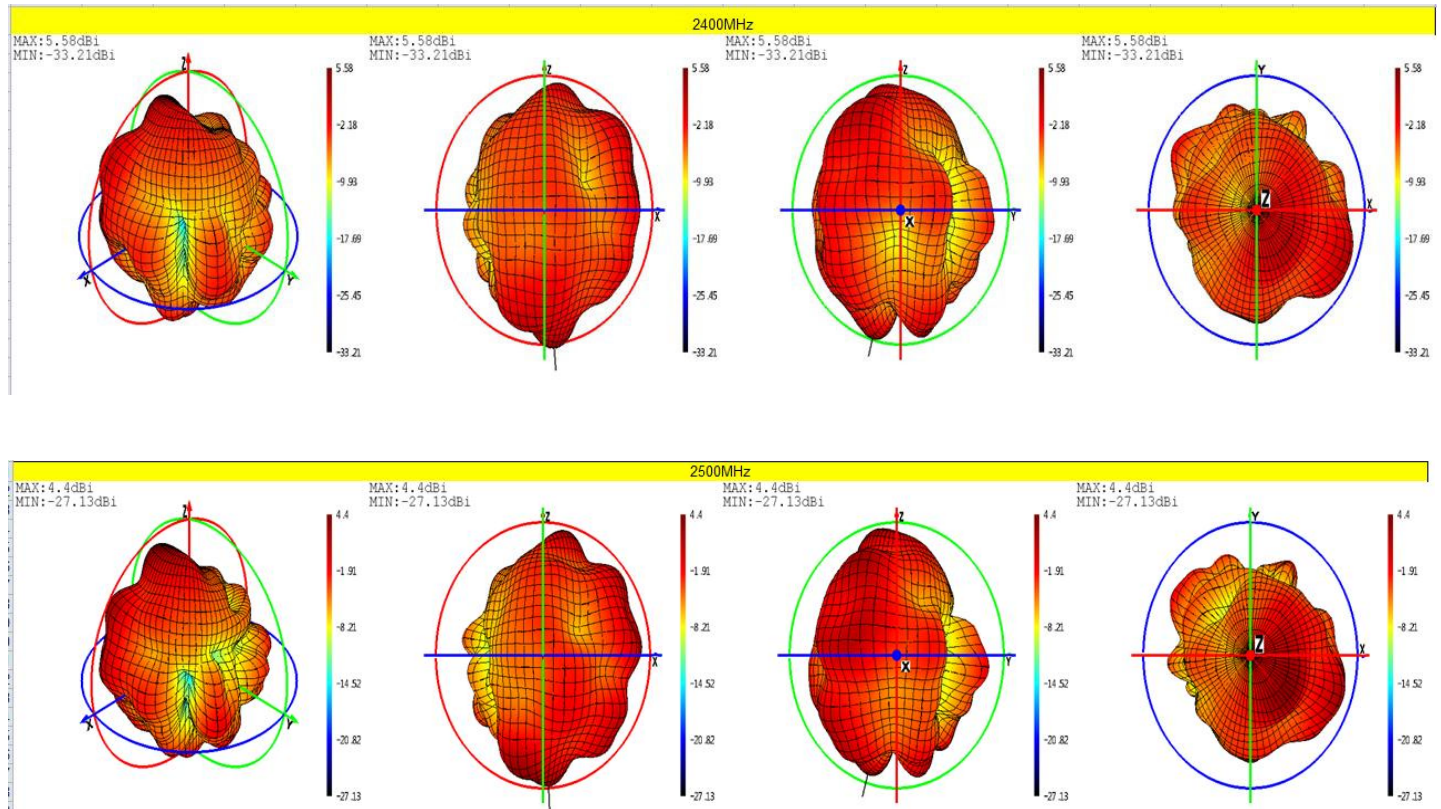
The original matching of the mainboard has not been changed



5. Antenna Electrical Performance Parameters (Gain, Efficiency)

Antenna Test Data			
Gain Efficiency (efficiency)	Frequency 频率(MHz)	Gain 增益(dBi)	Efficiency Efficiency (%)
	2400.00	5.58	45.84
	2405.00	5.87	49.92
	2410.00	5.82	49.54
	2415.00	5.68	49.26
	2420.00	5.62	49.34
	2425.00	5.40	49.42
	2430.00	5.29	49.74
	2435.00	5.17	50.69
	2440.00	5.04	51.08
	2445.00	4.89	51.21
	2450.00	4.78	51.51
	2455.00	4.68	51.77
	2460.00	4.67	52.49
	2465.00	4.58	52.42
	2470.00	4.56	52.80
	2475.00	4.49	52.42
	2480.00	4.42	52.76
	2485.00	4.49	53.63
	2490.00	4.47	53.57
	2495.00	4.36	52.17
	2500.00	4.40	52.69

5.1. 天线无源 3D_Graphs/PolarGraphs:

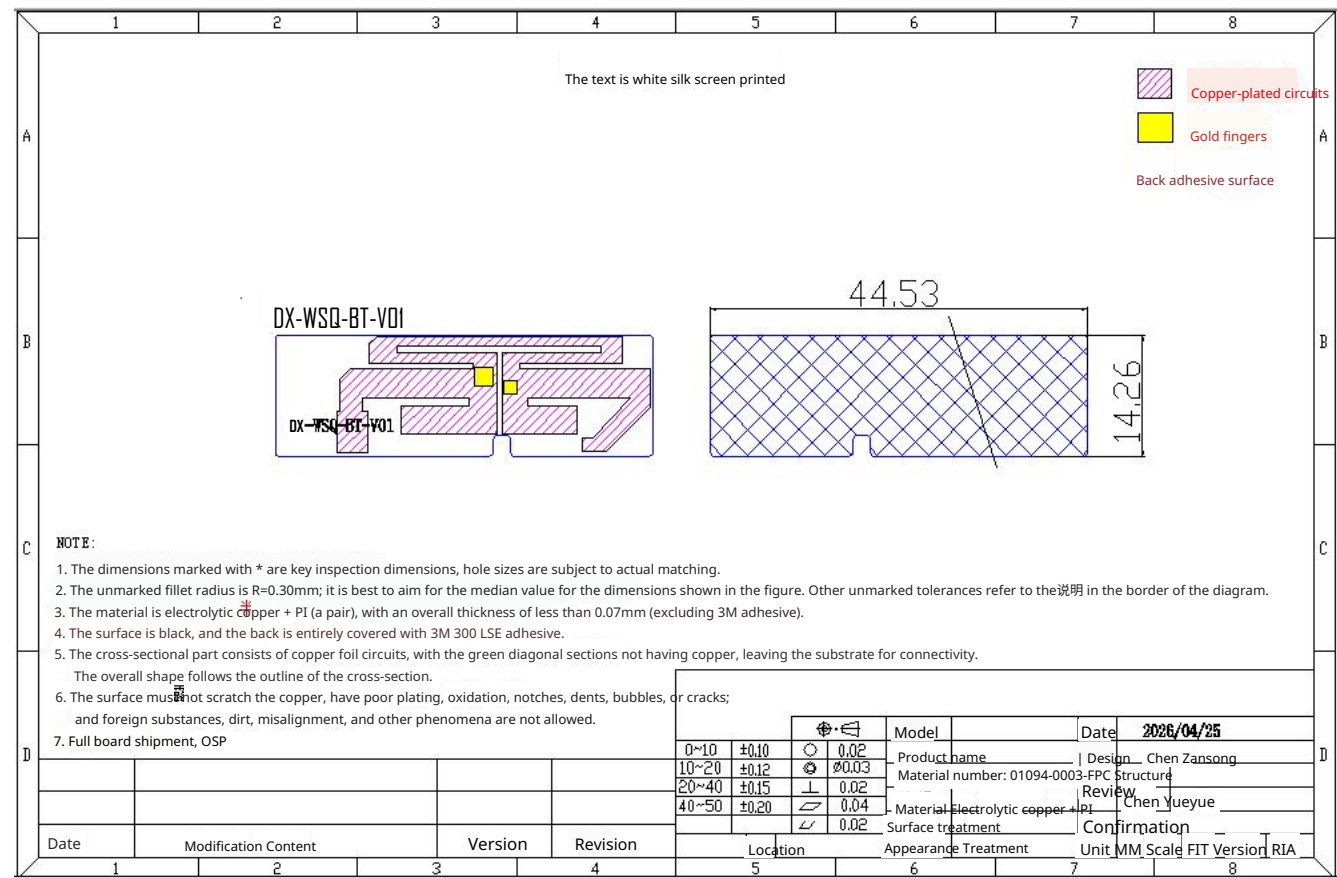


And

7. Antenna Assembly Diagram:



8. Product Structure Diagram:



9. Packaging Method

Bagged shipment, 100PCS/bag