
Shenzhen Hongde Zhixin Technology Co., LTD

APPROVAL SHEET

Customer: Shenzhen Enye Technology Co TLD		Project Name: p30	
Frequency band: WGB		May 16, 2024	Version: R:A
Research and development	structure: Zhuge Chong		Approval: Zhang Lin
	Radio Frequency: Sun Jian		
Customer Audit:		Customer approval	

WIFI antenna HDZX-550-wgb cable length L=160MM, 3rd generation terminal 0.81 wire, black

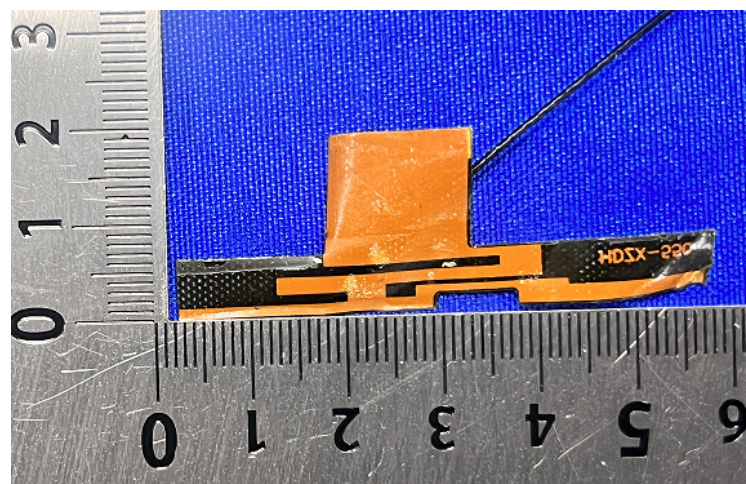
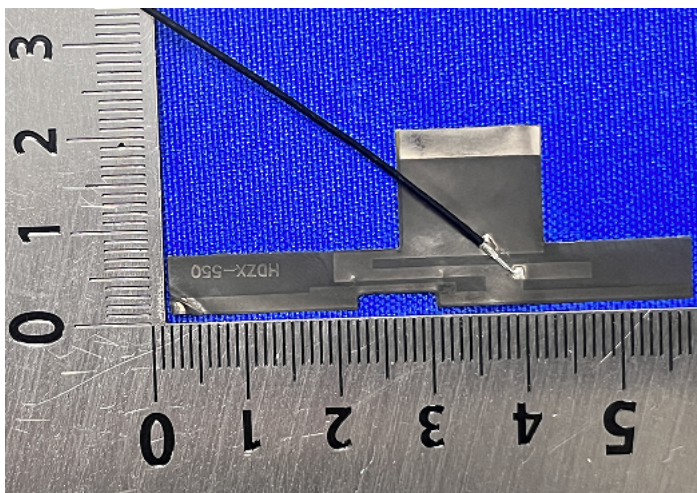
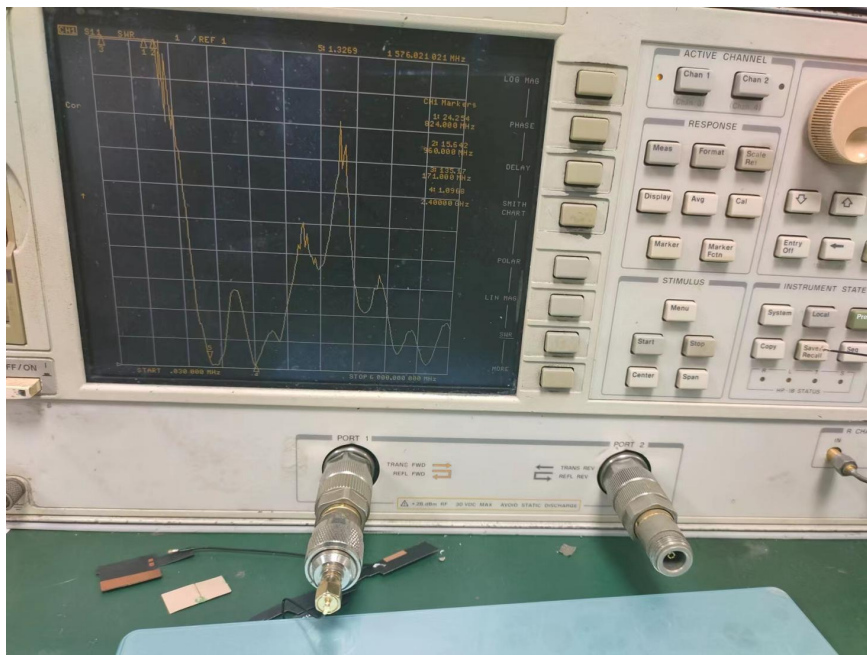
contents

<u>contents</u>	2
<u>1. PROJECT INFORMATION AND ELECTRICAL SPECIFICATION</u>	4
<u>1-1 Project picture</u>	4
<u>1-2 Frequency Band:</u>	4
<u>1-3 Impedance matching</u>	4
<u>2. VSWR</u>	4
<u>2-1 Measuring Method:</u>	4
<u>2-2 S11 parameter values</u>	4
<u>3. EFFICIENCY AND GAIN</u>	4
<u>3-1 Efficiency/Gain- WIFI</u>	5
<u>4. THE PRODUCTION INDEX</u>	5
<u>5.STRUCTURAL DRAWINGS</u>	6

Frequency Band	MHz
WFi/BT Frequency	2380-2500 4900~5800
Antenna Maximum Power	16.38dbi
Debugging category	Coaxial +FPC welding
Wireless communication standard	802.11

WIFI GPS waveform diagram

Five outdoor GPS devices with a duration of 36 or more can be located within 50 seconds



1. Project information and Electrical Specification

Those specifications were specially defined for 2.4G model, and all characteristics were measured under the model's handset testing jig .

1-1 Antenna picture

1-2 Frequency Band:

Frequency Band	MHz
2.4G/5G	2400-2500/4950-5850

1-3 Impedance matching

2.VSWR

2-1 Measuring Method:

- 1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,*
- 2. Keeping this jig away from metal at least 20cm.*

2-2 S11 parameter values

(MHZ) frequency	1550	2400	850	900	1800	1900	2100
standing wave	1.3	1.2	1.38	1.63	1.23	1.45	1.65

3. Efficiency and Gain

*measuring and test instruments:

Microwave anechoic chamber, Agilent network analyzer, Agilent spectrum analyzer,

8960 comprehensive tester, standard antenna

***test method:**

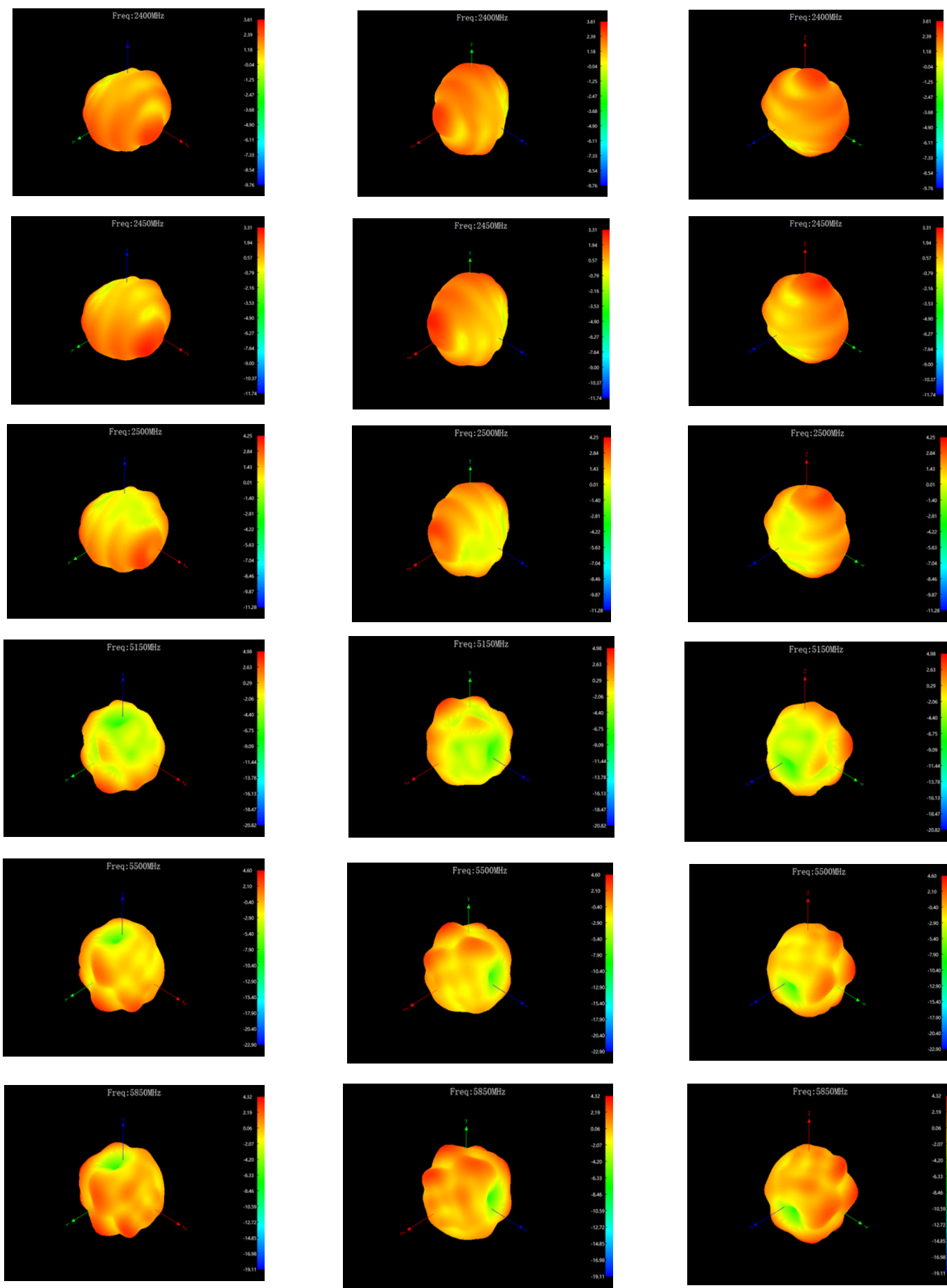
equipment

The equipment is placed at the center of the turntable on the H plane and fixed, on the same horizontal line as the center of the horn antenna

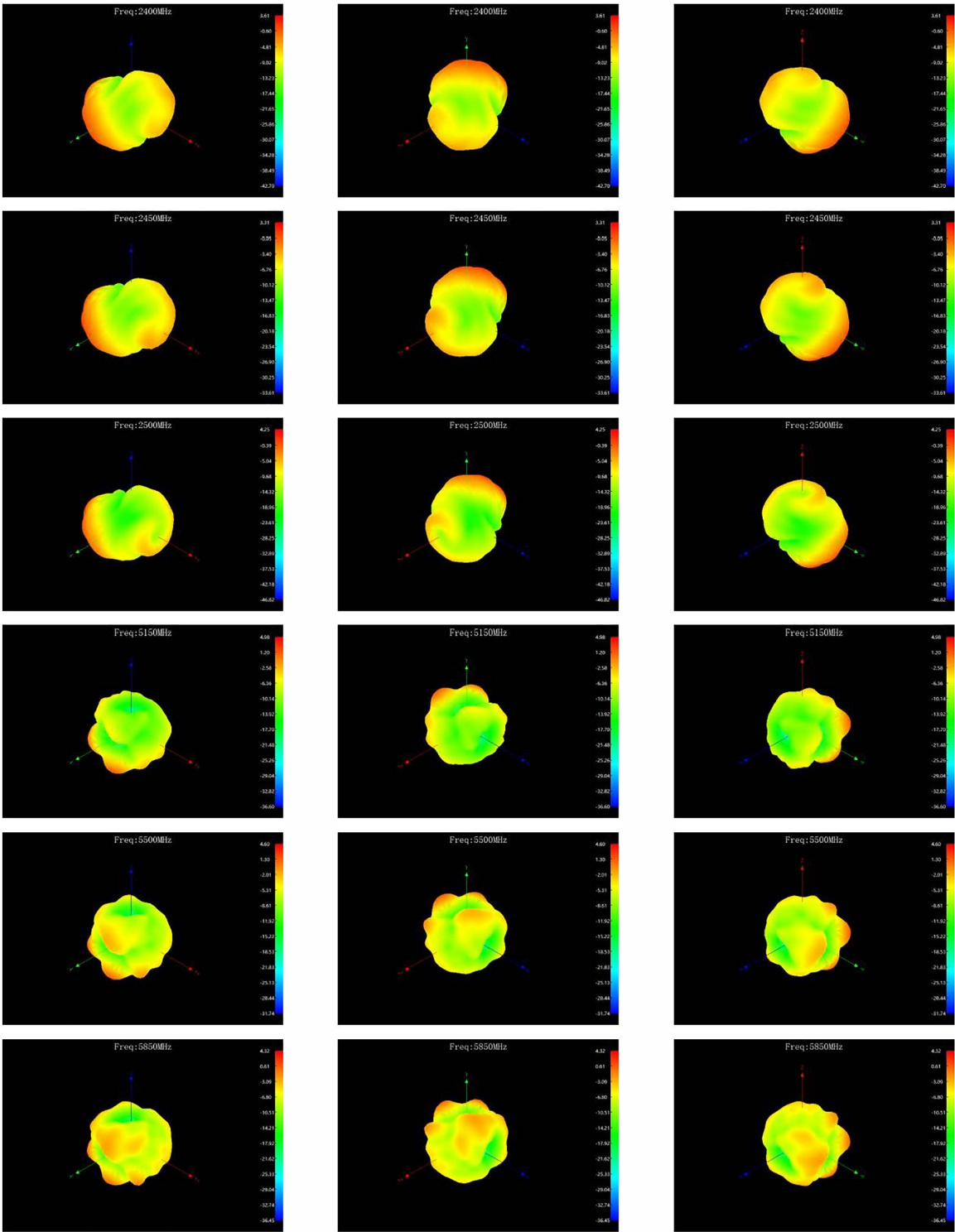
3-1 Efficiency/Gain- WIFI

Frequency(MHz)	Gain(dBi)
2400	3.61
2450	3.31
2500	4.25
5150	4.98
5500	4.60
5850	4.32

2D&3DDirectional pattern



2D&3DDirectional pattern



2D&3DDirectional pattern

