

深圳市鑫恒阳科技有限公司 Shenzhen xinhengyang technology Co.,ltd.

样品承认书

Sample Letter of Acknowledgment

★ **Customer material number:** 3614.10.1431.00 U-Air-FPC Antenna
L(JIELI)AD976D8(Thousand Shore)/XHYV2.03614.10.1441.00U-Air-FPC Antenna
R(JIELI)AD976D8)(Thousand Shore)/XHYV1.0

★ **Material number of our company:**

EJ.01.0055-U-AIR-23

★ EJ.02.0055-U-AIR-23

★ **Sample delivery date: 2023.03.28**

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Purpose

To standardize the product specifications and testing methods of mobile communication terminal antenna produced by XX Company, so as to avoid errors caused by different testing conditions and methods.

1. Product category and product model overview

1.1 Type

1.2 This mobile communication terminal antenna is :BT antenna

Product Model Overview

This report mainly Outlines the electrical results of the antenna designed by U-AIR. The designed frequency band of this antenna is 2.42~2.84GBT

1.3 2. Technical indicators and Test equipment

1.4 Specification

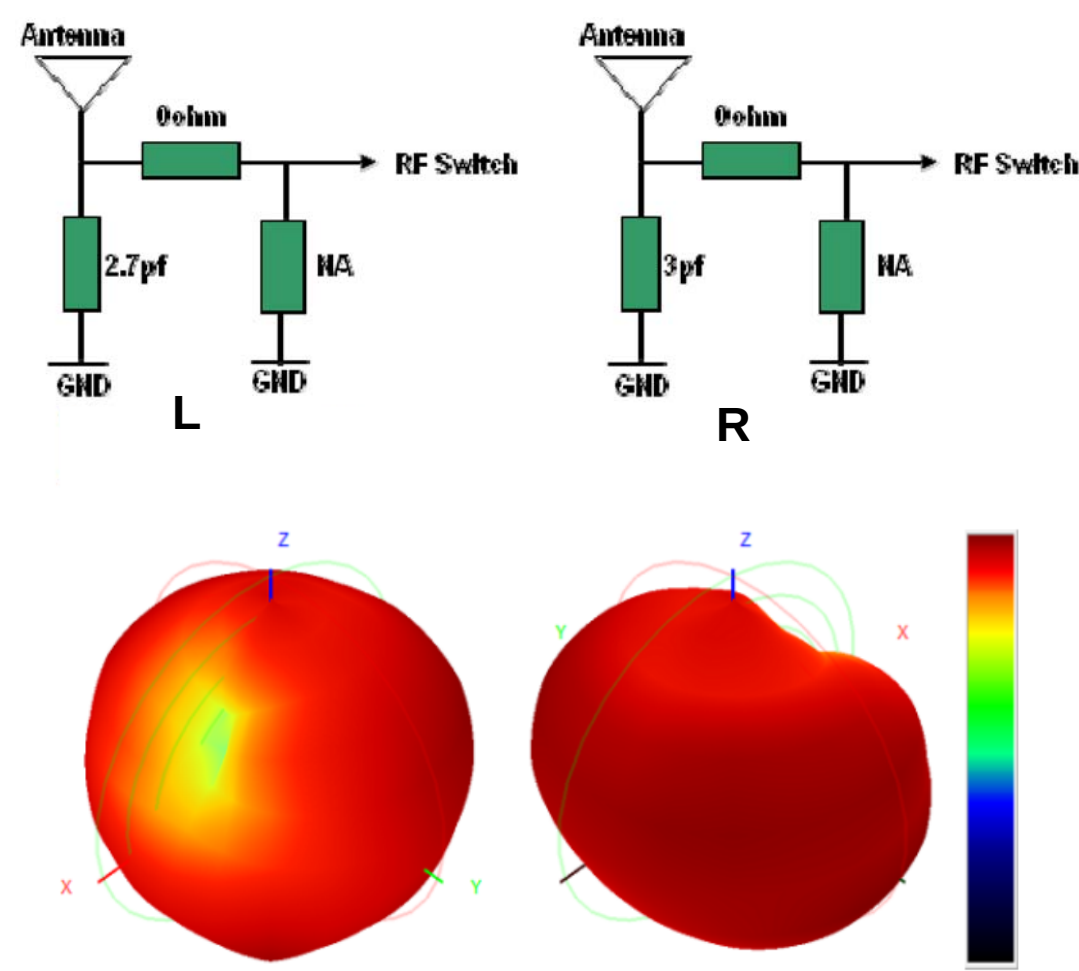
Product Electrical Performance Index	
Work Frequency Range	2400MHz-2840MHz
Standing wave ratio	2400MHz-2500MHz: <2.0
Gain	2400MHz-2500MHz: 1.9dBi
The radiation efficiency	2400MHz-2500MHz : > 30 %
Impedance	~50 ohm
Product material description	
FPC	Electrolytic copper + PI
Product environment description	
Working temperature	- 30℃ ~ + 85 ℃
Storage temperature	- 30℃ ~ + 85 ℃

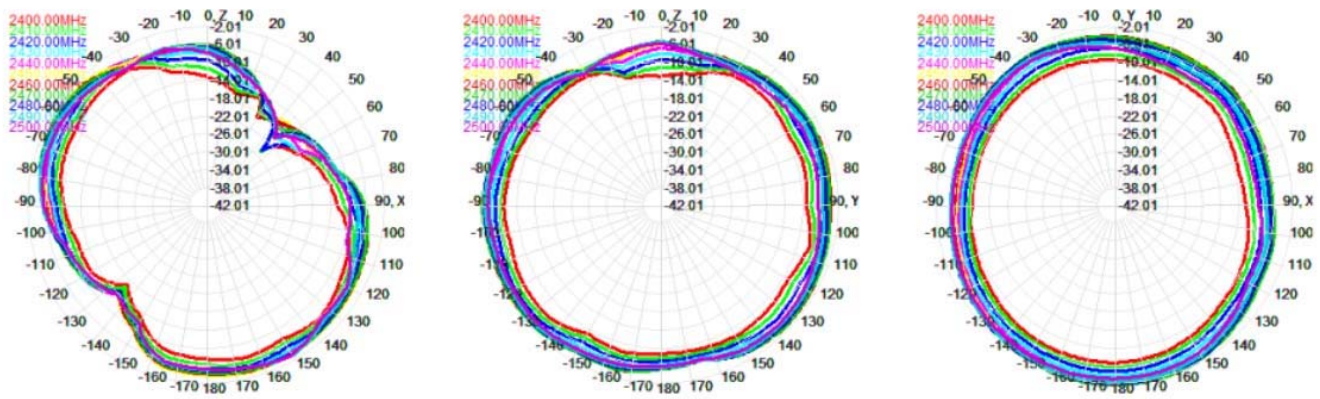
Description of experimental equipment

List	Testing project	Equipment
1. S Parameters	1. Return loss 2. VSWRat	Network analyzer: Agilent 5071B
2. Coupling power test	1. Transmission power 2. Receiving sensitivity	Comprehensive tester: Agilent W500
3. Radiation pattern and gain	1. Radiation pattern 2. Antennagain	1. Darkroom: 3*3*3m(3D) 2. Network analyzer : Agilent 8753E

Description of matching circuit

4.0 Circuit matching changes





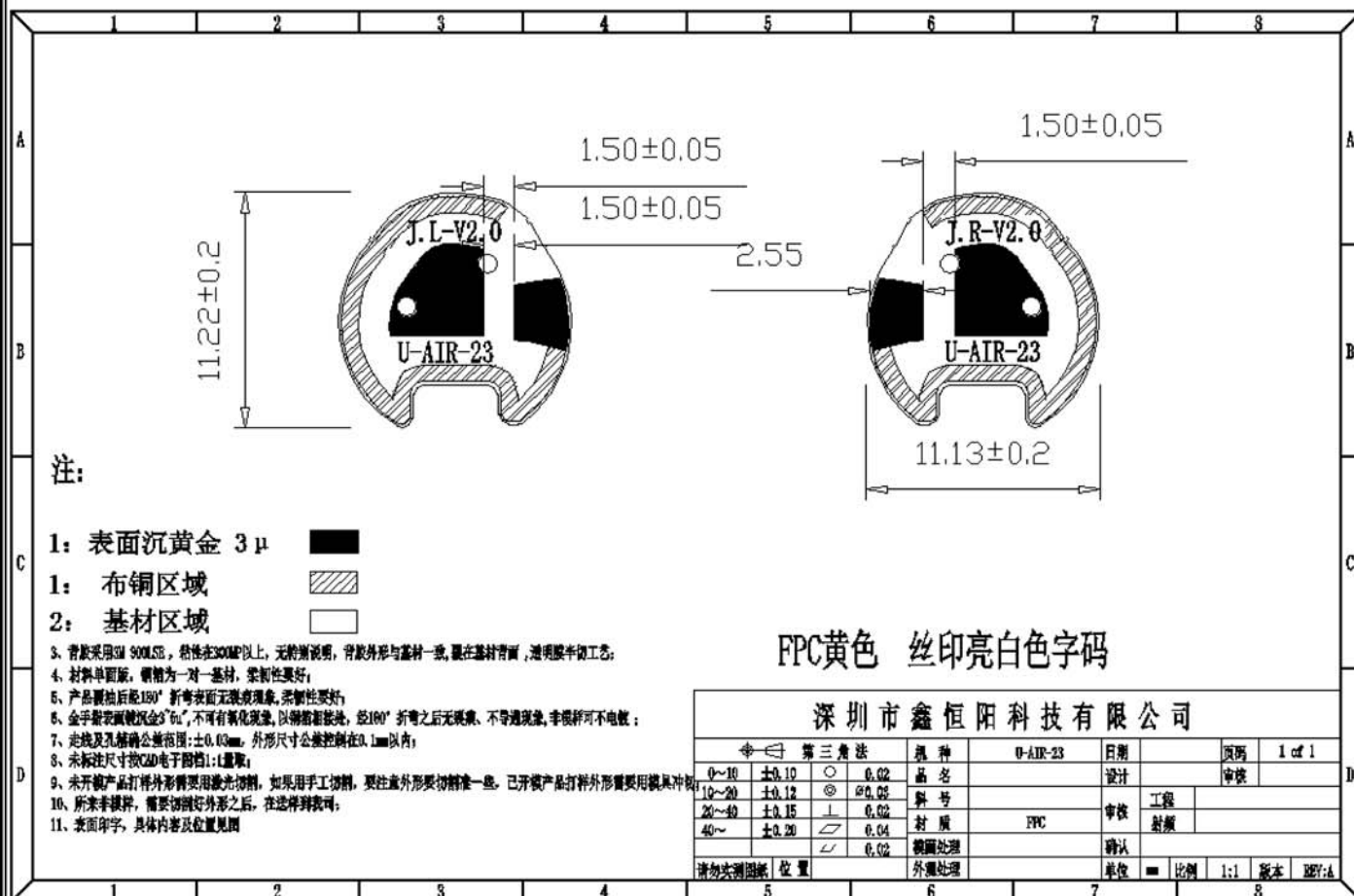
4.4 Gain table of Efficiency&OTA

Fre (MHz)	Efficiency	Gain (dBi)
Fre (MHz)	Efficiency	Gain (dBi)
2400	29%	1.2
2410	30%	1.3
2420	31%	1.5
2430	32%	1.8
2440	33%	1.8
2450	35%	1.8
2460	38%	1.9
2470	36%	1.6
2480	36%	1.6
2490	33%	1.4

4.5 OTA test data of ground radiation network

Test Condition		Free Space	
band	Channel	TRP (dBm)	TIS(dBm)
BT/R	0	3.12	-87.48
	39	1.36	-84.09
	78	-0.12	-84.00
BT/L	0	-0.33	-85.62
	39	0.97	-86.01
	78	1.99	-86.78

2.图档



6. Physical picture

