



上海增信电子有限公司
Signal Plus Technology Co., Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期
DATE: 2025.04.23

版本
REV.: C

客 户
CUSTOMER: AsiaTelco Technologies Co.

客 户 料 号
CUSTOMER P/N: TX0724T002

品 名
PART NAME: 外置黑色中璞玉天线 2.4G&5G&6G三频 with SMA内螺纹孔L153mm

供 方 料 号
SUPPLIER P/N: 6001F00420

送样日期Date: 送样数量Q'TY: Pcs

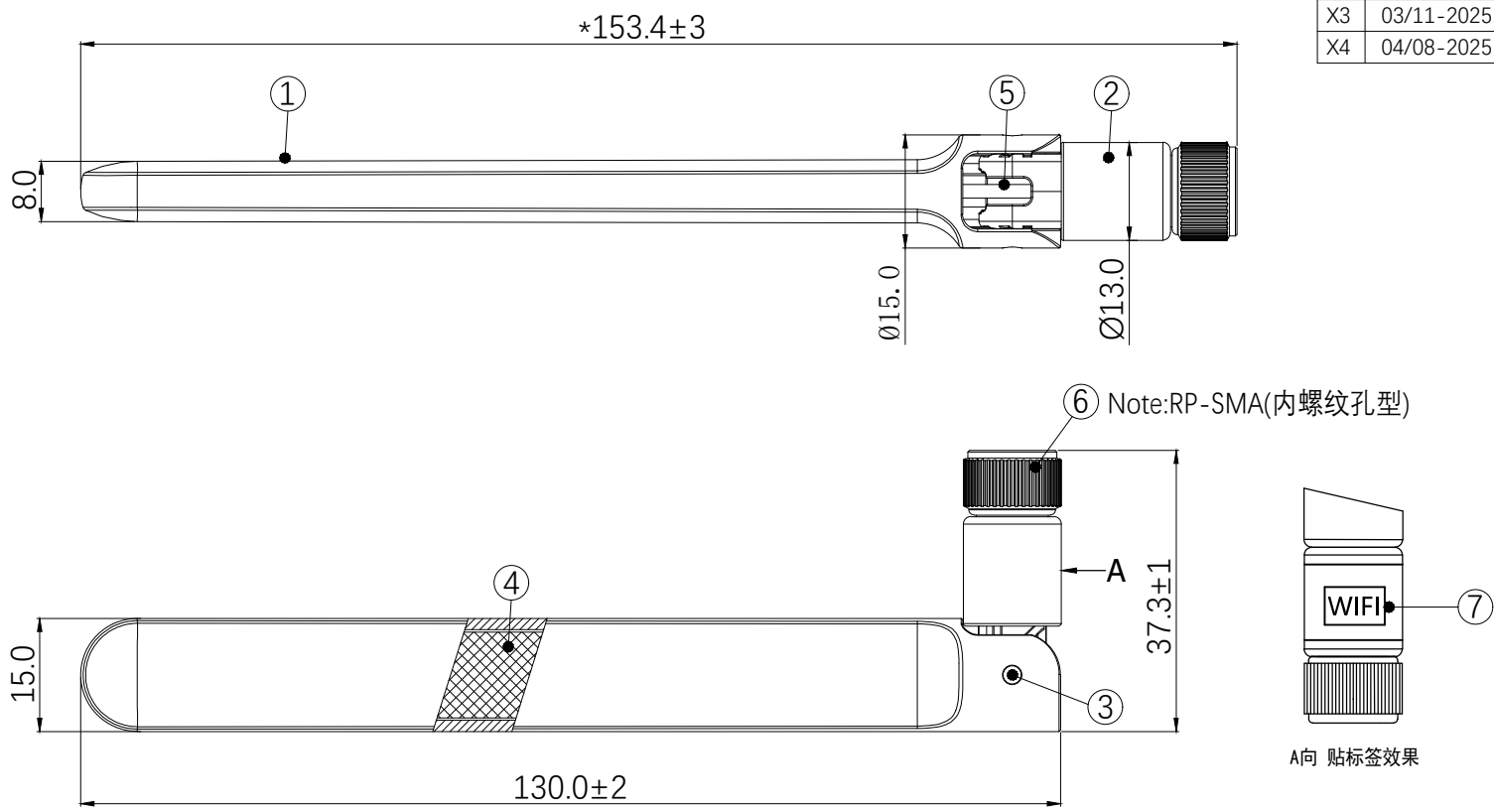
客户确认CUSTOMER APPROVED BY		
核准 Approved by	审核 Checked by	拟制 Prepared by

供方确认SUPPLIER SIGNATURE		
核准 Approved by	审核 Checked by	拟制 Prepared by
Jack		andy

ZX-QT-RD-0011-A1

Add:上海市徐汇区桂箐路69号30栋603室 Tel:021-54266190 Fax:021-54266191

REV	DATE	DESCRIPTION
X1	02/28-2025	New Issue
X2	03/07-2025	Add Label
X3	03/11-2025	Update electrical properties
X4	04/08-2025	Update electrical properties



1.ELECTRICAL PROPERTIES:

1.1 Frequency Range.....2.4-2.5GHz&5.15-5.85GHz&5.92-7.25GHz

1.2 Impedance.....50 Ohm Nominal

1.3 VSWR(装设备).....≤2.0@2.4-2.5GHz;
≤2.0@5.15-5.85GHz;
≤3.2@5.92-7.25GHz

VSWR(单天线).....≤2.5@2.4-2.5GHz;
≤2.5@5.15-5.85GHz;
≤3.2@5.92-7.25GHz;

2.These Products are in conformity with ROHS 2.0;

3.带"*"为重点尺寸，表面纹理：VDI30。

7	标签	特多龙, 透明底白字	1	703-1-0043
6	连接器	RP-SMA;内螺纹(孔);黑色塑胶螺套;螺牙镀镍	1	
5	线材	RG178 Cable,透明棕色外观	1	
4	PCB	FR4;绿油	1	501-1-1648
3	销钉	POM;黑色	2	
2	下固定座	PC+PBT;黑色	1	
1	杆套	ABS;黑色	1	
NO	DESCRIPTION		Q'TY	REMARK

CUSTOMER'S SIGNATURE	XXX.	±2.0	APPROVED	CUSTOMER:		
	XX.	±1.0		PART NO: TX0724T002		
	X.	±0.5	CHECKED	PART NAME: 外置黑色天线(2.4G&5G&6G三频)		
	.X	±0.3		Z&X P/NO: 6001F00420		
	.XX	±0.2	DRAWING	REV	UNIT	FILE:
	⊕	⊖		X4	mm	SHEET: 1/1
			steven			

上海增信电子有限公司
Signal Plus Technology Co., Ltd.



Antenna Test Report

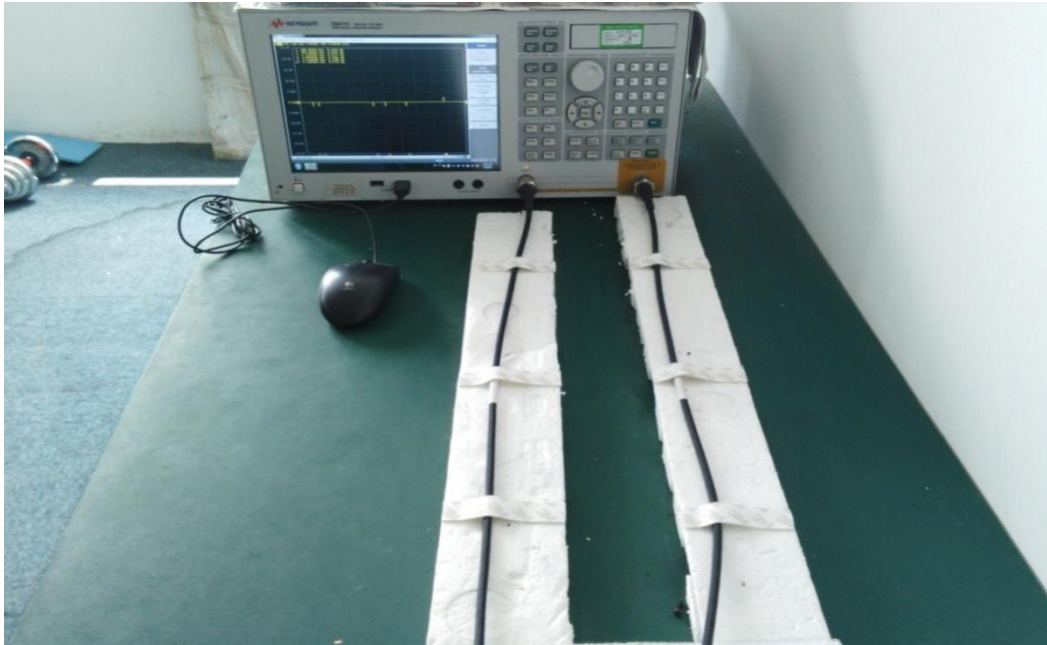
2.4G&5G&6G WIFI

1. RF Fixture Experiment

1.1 Test Setup

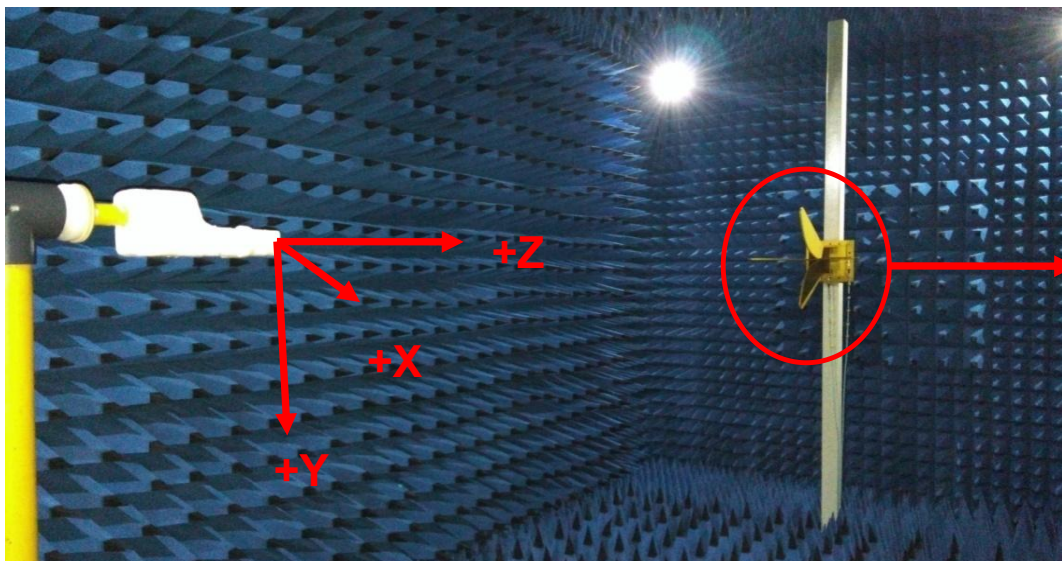
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S_{11}) were performed using an Keysight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber. The chamber provides less than -30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is: 7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



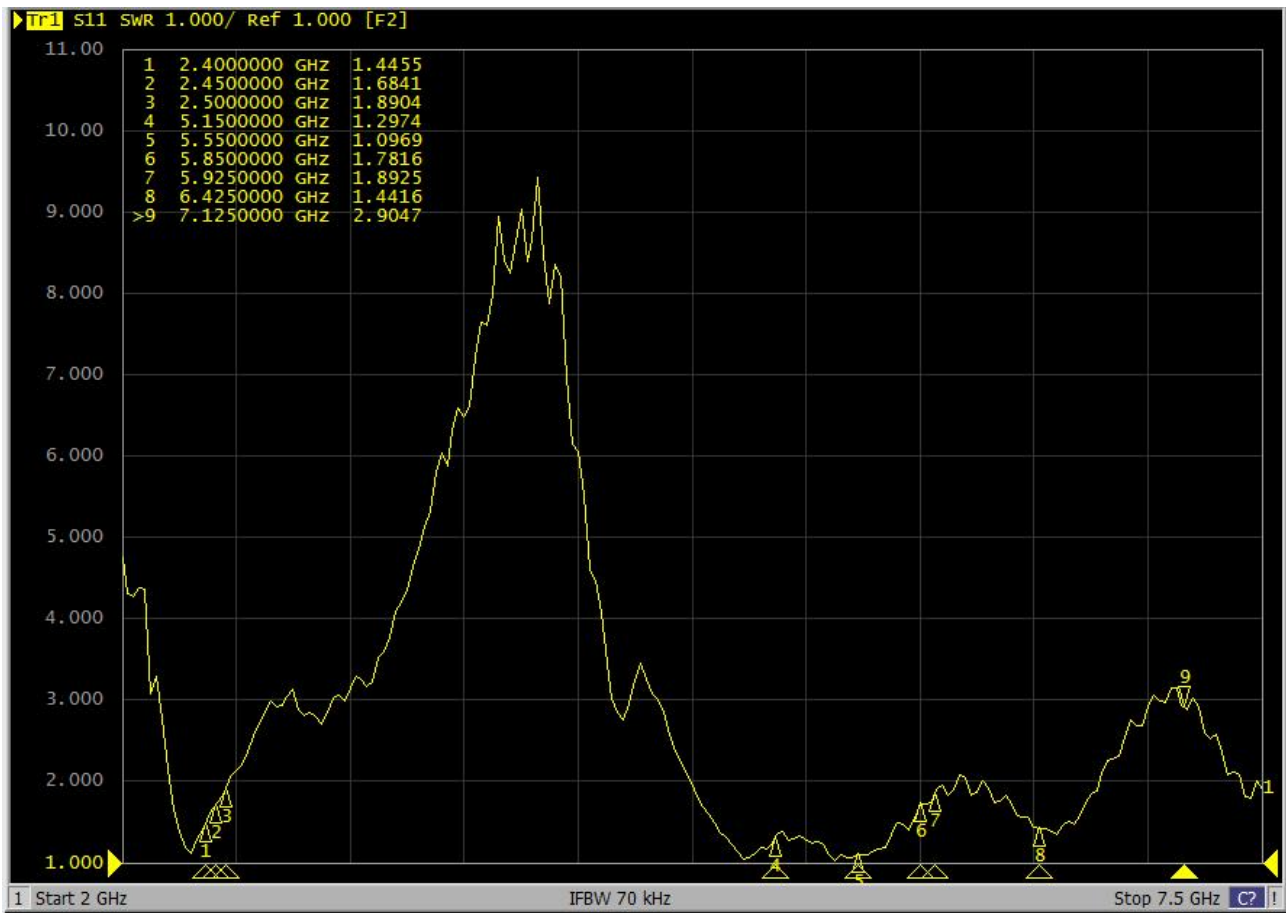
2. Antenna Solution



Data Preview

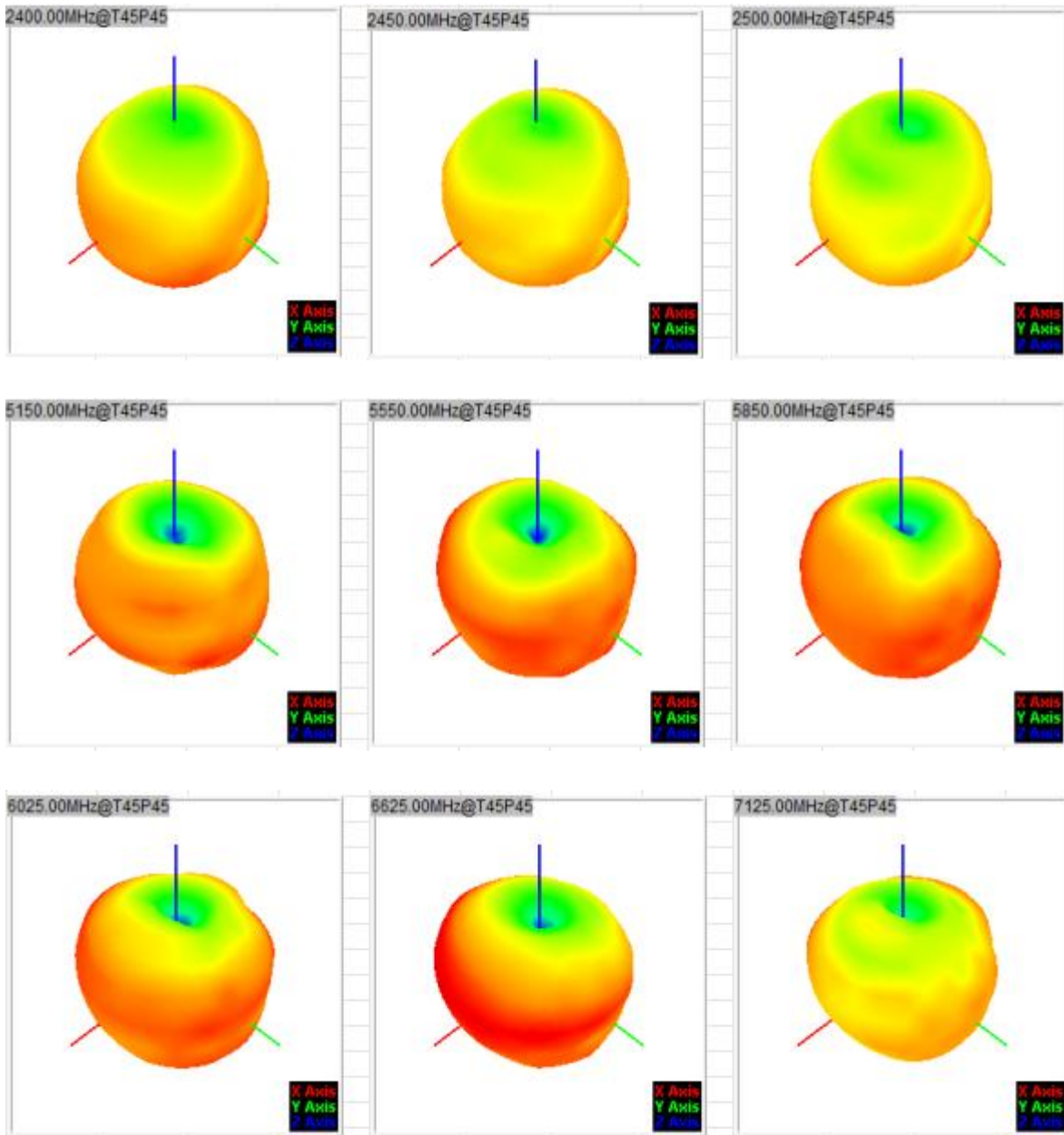
Frequency	Gain	Efficiency
(MHz)	(dBi)	(%)
2400	2.4	78%
2450	2.7	71%
2500	2.1	65%
5150	1.1	73%
5250	1.2	70%
5350	1.2	75%
5450	1.1	75%
5550	1.6	74%
5650	1.9	74%
5750	2.3	75%
5850	2.6	75%
5925	2.4	71%
6025	2.6	71%
6125	2.3	62%
6225	1.5	70%
6325	2	67%
6425	1.6	67%
6525	1.1	77%
6625	2.2	67%
6725	2	69%
6825	1.8	61%
6925	1.5	58%
7025	1	54%
7125	1.2	55%

S11



Radiation patterns:3D

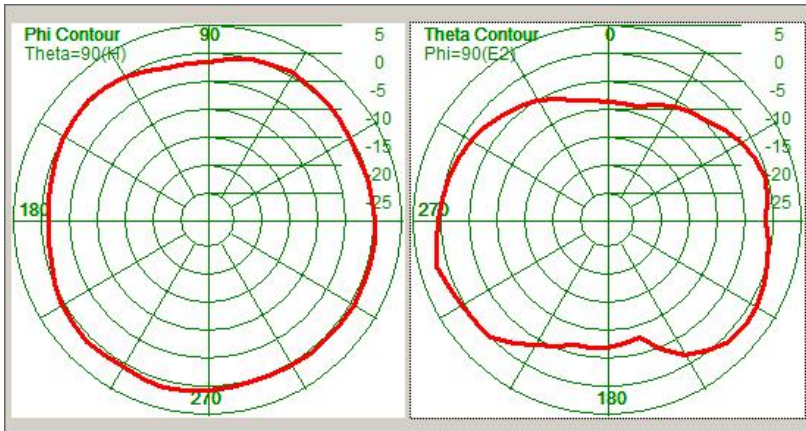
(2400/2450/2500/5150/5550/5850/6025/6625/7125MHz)



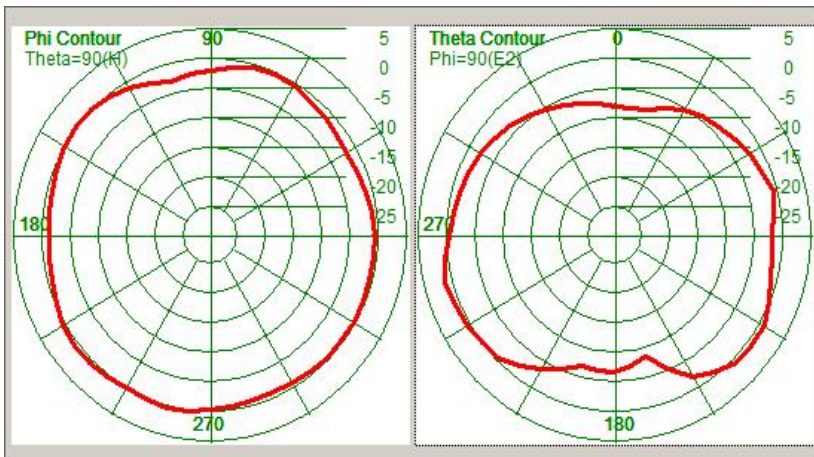
Radiation patterns:2D

(2400/2450/2500/5150/5550/5850/6025/6625/7125MHz)

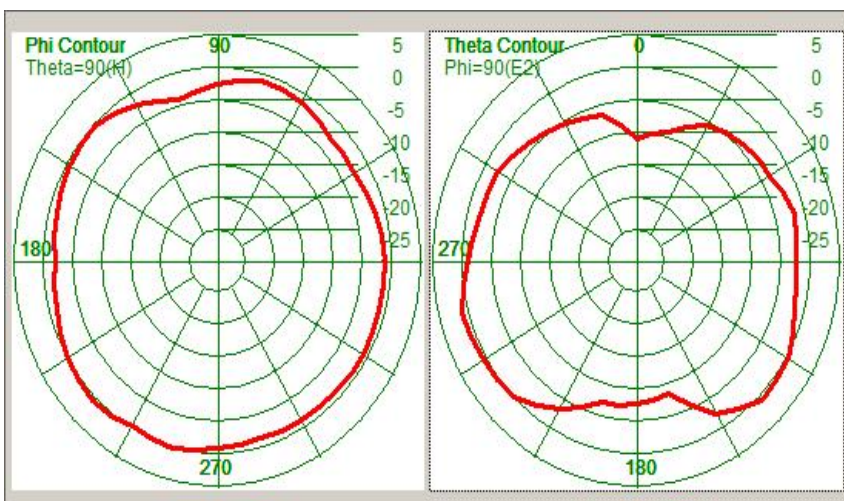
2400



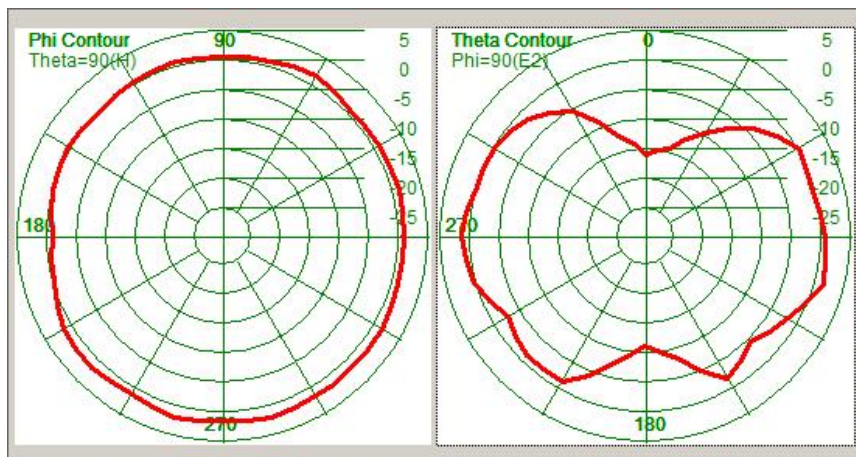
2450



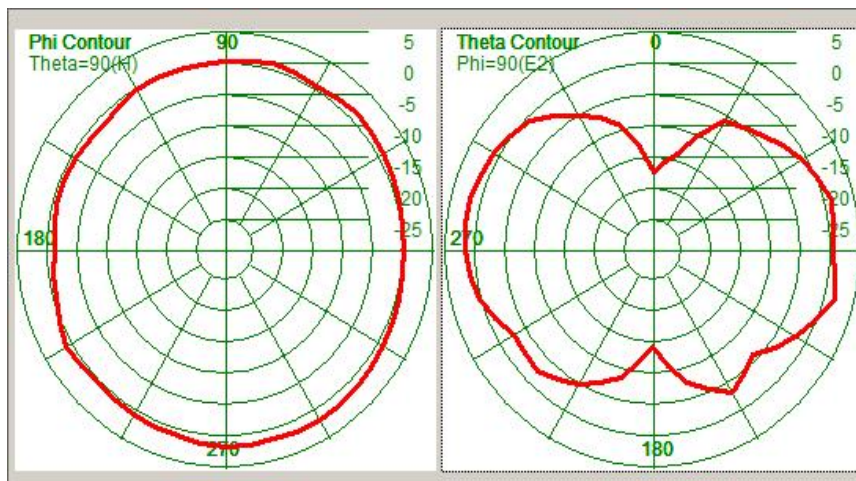
2500



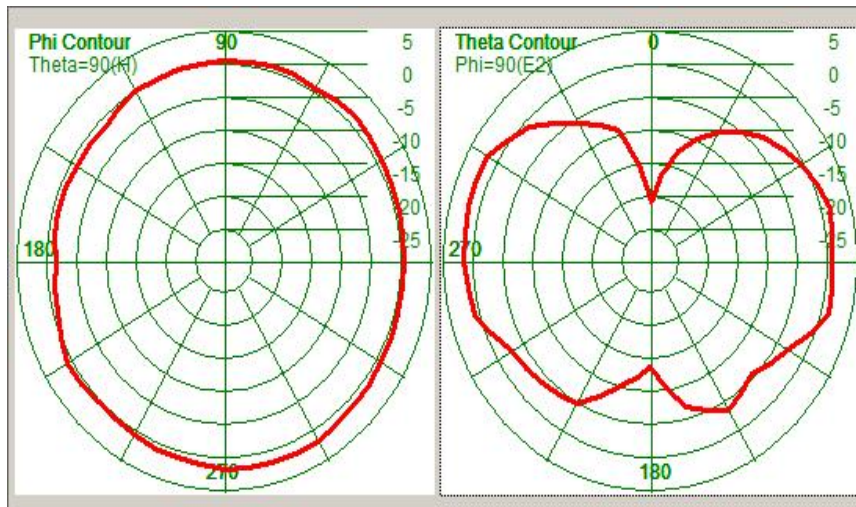
5150



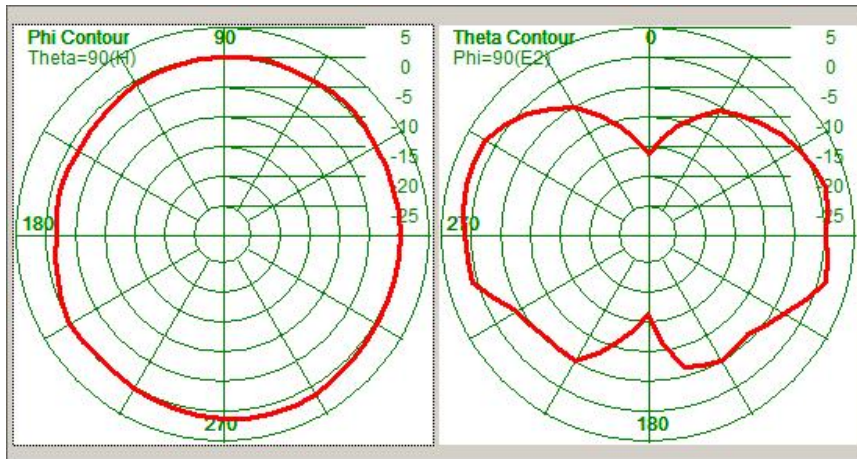
5550



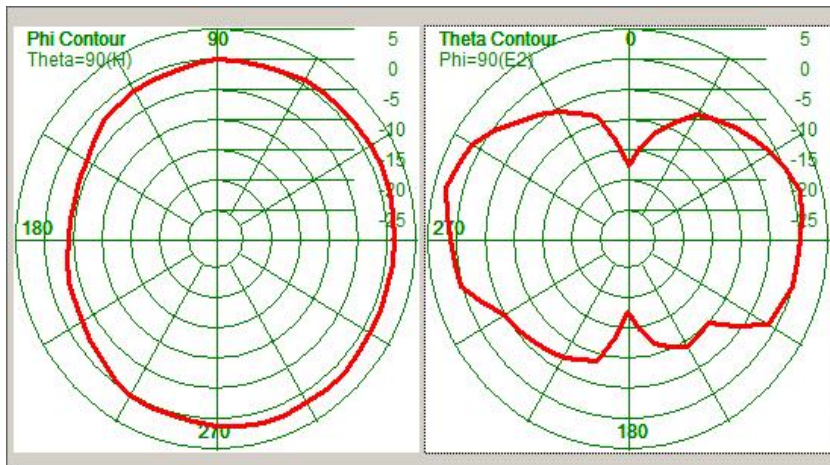
5850



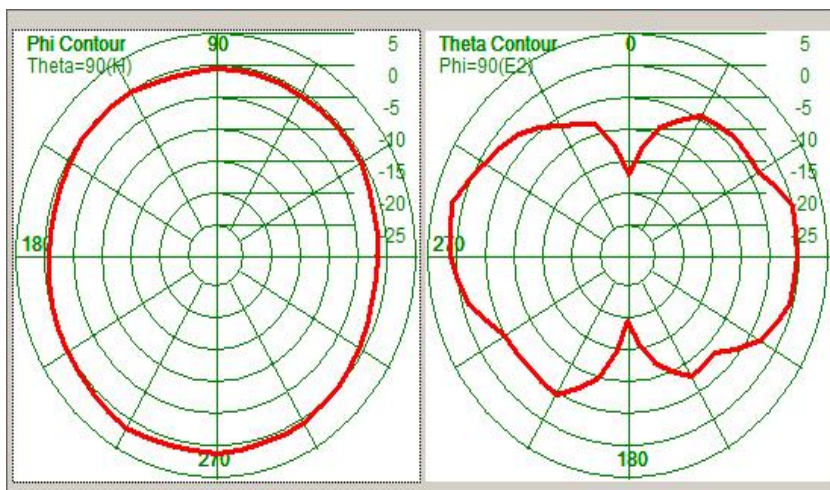
6025



6625



7125

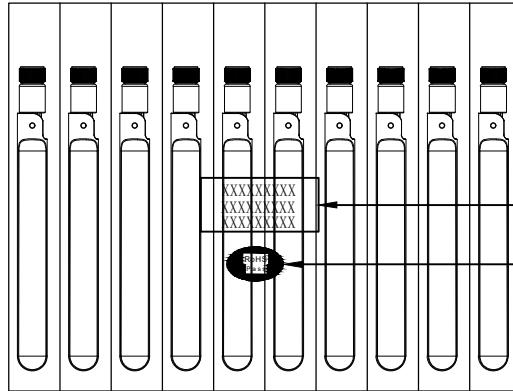


F		G
REV	DATE	DESCRIPTION
X1	04/11-2025	Drawing

Step 1: Check

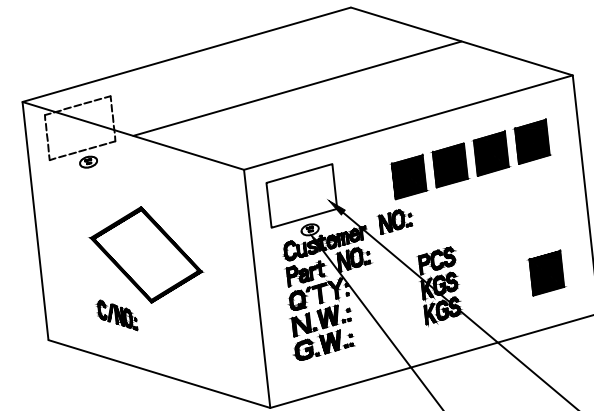
Step 2: Lattice Bag Packing

Step 3: Carton Packing and Sealing



—Internal Label

—RoHS Label

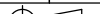


RoHS Label	External Label

Qualified Antenna

Q' TY:10pcs

Total Q' TY:400pcs/Carton
(Quantity for estimate,details for actual situation)

CUSTOMER'S SIGNATURE	XXX.	±3.0	APPROVED	CUSTOMER:		
	XX.	±1.0		PART NO:		
	X.	±0.5	CHECKED	PART NAME: Packaging Process		
	.X	±0.3		Z&X P/NO: 6001F00420		
	.XX	±0.2	DRAWING	REV	UNIT	FILE:
				X1	m/m	SHEET: 1/1



上海增信电子有限公司
Signal Plus Technology Co., Ltd.