

# Acknowledgement

## SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Tonly Technology Co., Ltd.

PRODUCT NAME: 2.4/5G Internal antenna L=250mm

CUSTOMER P/N:

Ren Feng P/N: U00T02S000N02717 REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Huang Lei	
AUDITOR BY:	Liu Xiaolin	
APPROVED BY:	Yao Dingjun	
DATE:	2023-02-13	

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一、 Change your resume

REV	DATE	Change record
A	2023-02-13	Initial release

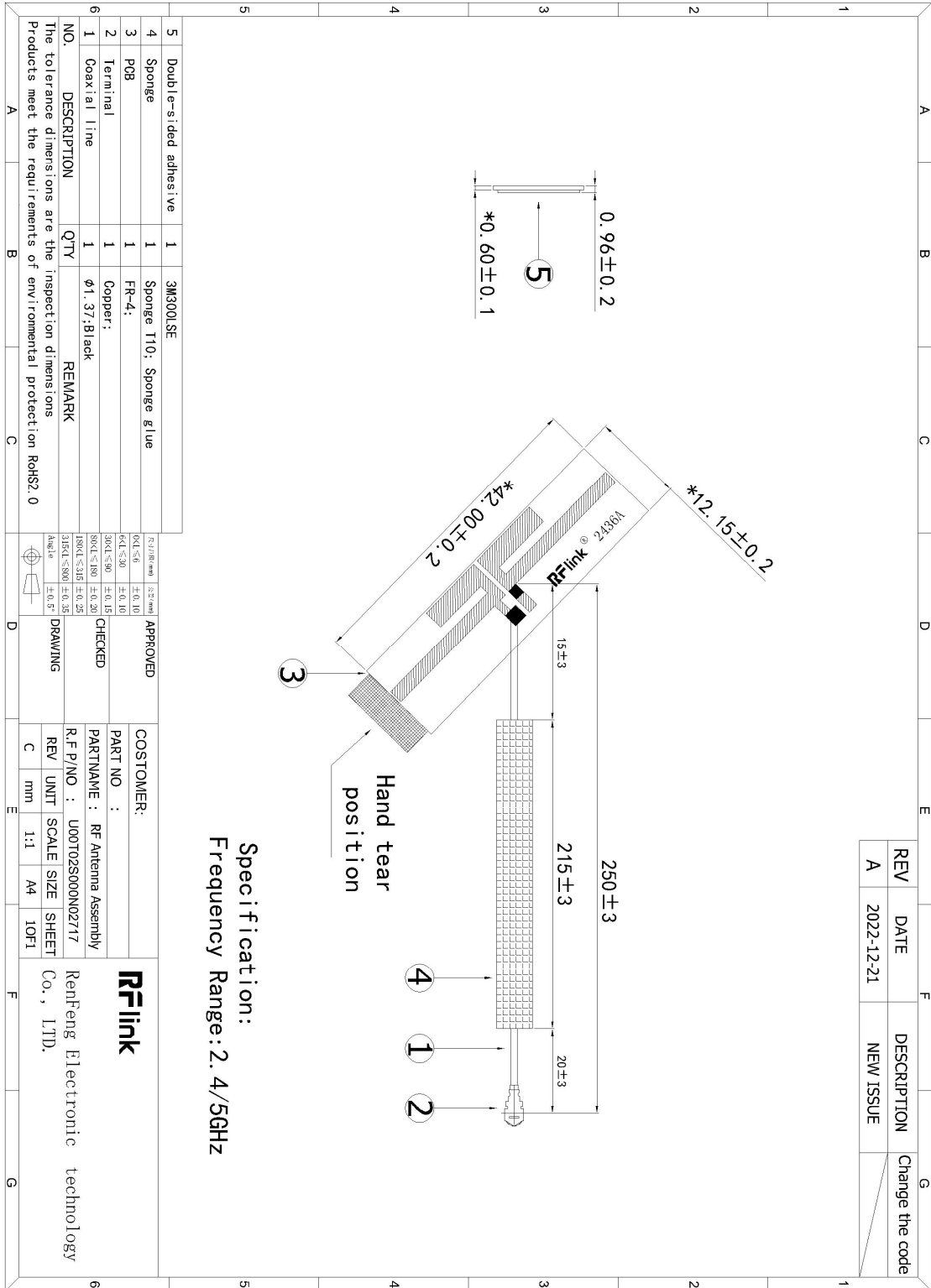
二、 Specification sheet:

Product main technical parameters

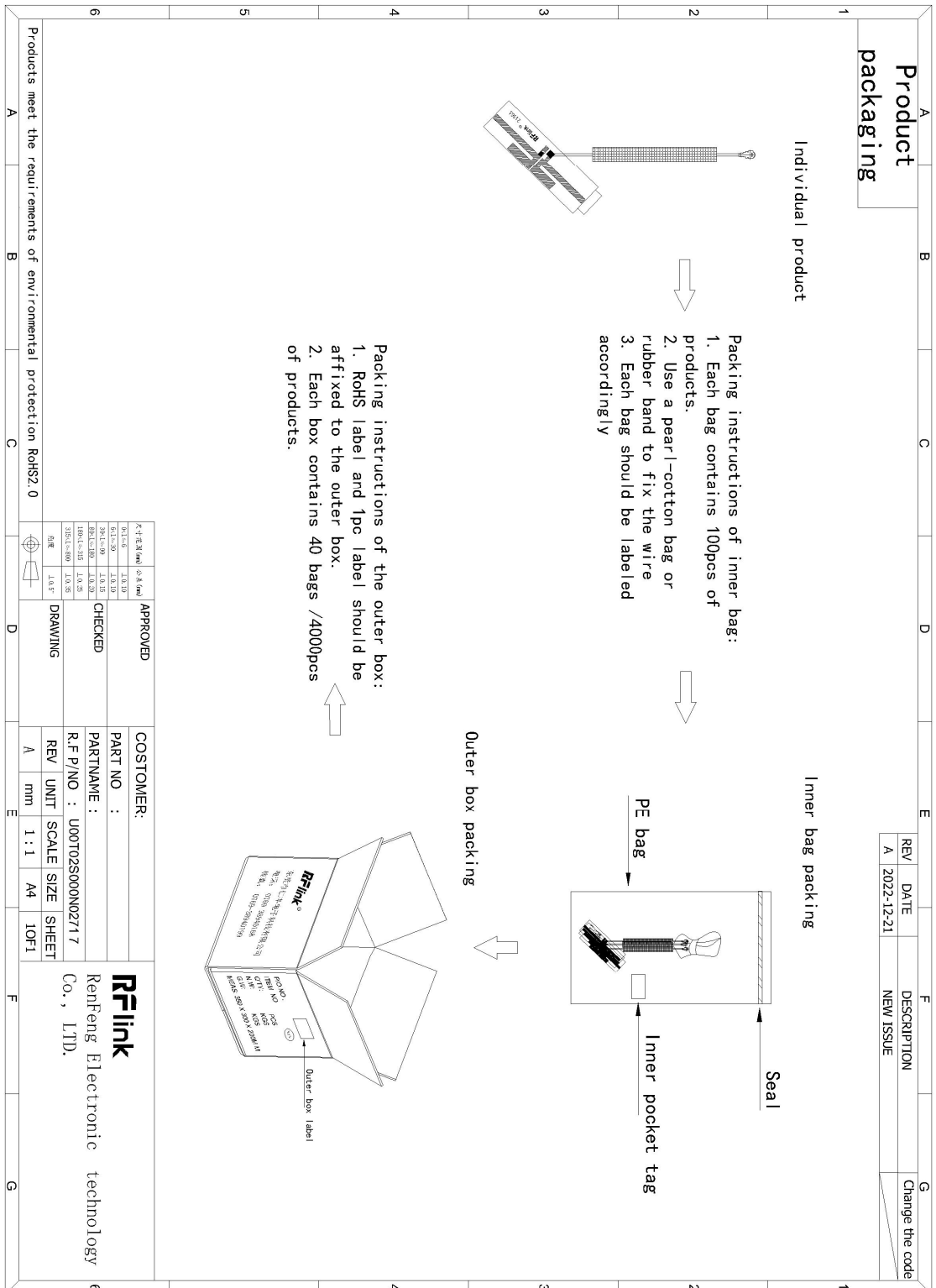
Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500 5150-5850	Frequency Range (MHZ)	2400-2500 5150-5850
Impedance( $\Omega$ )	50	Impedance( $\Omega$ )	50
Peak Gain(dBi)	4.16 3.16	Peak Gain(dBi)	4.16 3.16
VSWR	$\leq 2.0$	VSWR	$\leq 2.0$
Radiation	Omni-directional	Radiation	Omni-directional
Connector Type	Terminal	Connector Type	MHF Plug
Physical Properties		Physical Properties	
Antenna cover	PCB	Antenna cover	FR-4
Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C
Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C

### 三、 Finished product drawing & packing drawing:

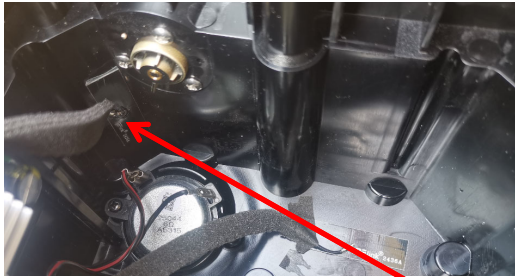
#### 2.1、 Antenna size diagram



## 2.2、Packing specification



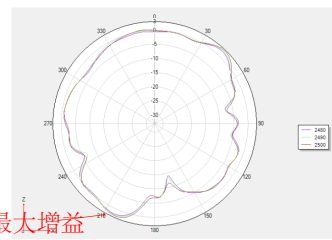
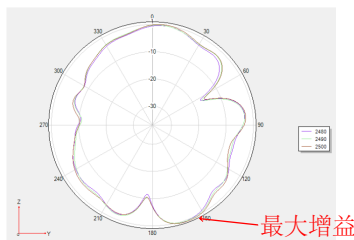
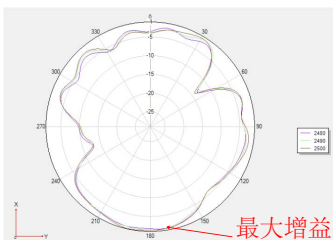
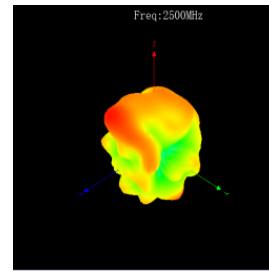
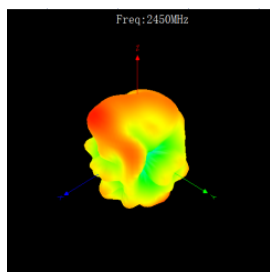
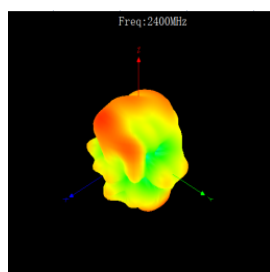
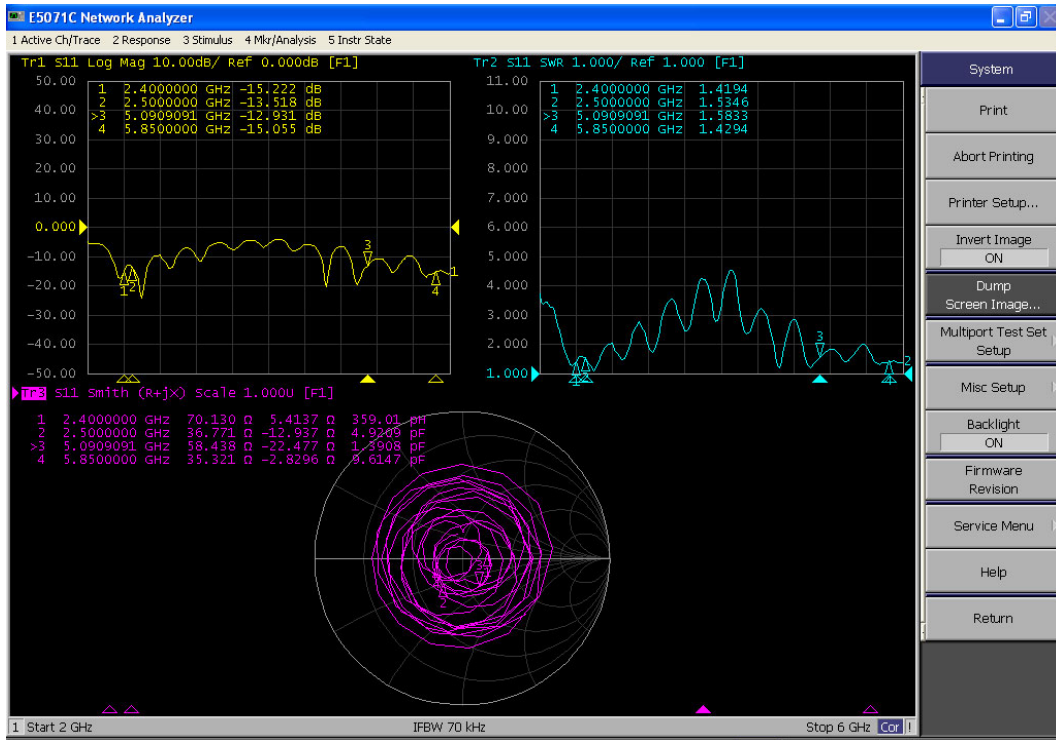
#### 四、Antenna assembly position:

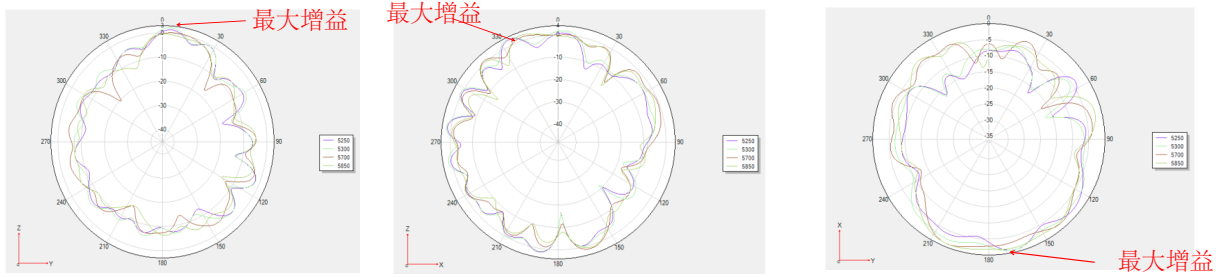
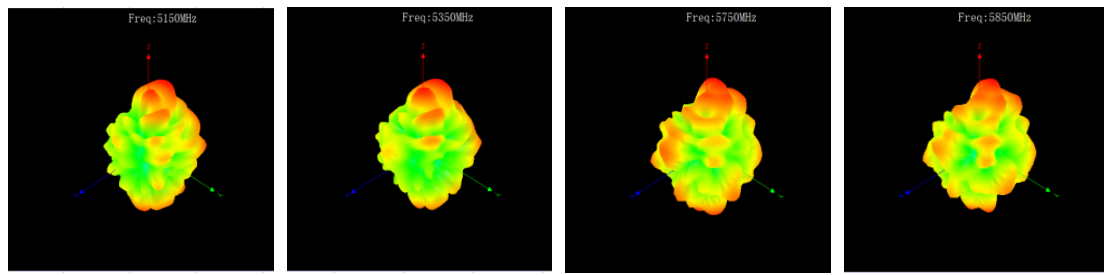


#### 五、Test report

ANT1-WIFI1

##### 5.1: Network analyzer test report





Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	60.34	3.83	5150	51.19	2.58
2410	61.36	3.8	5200	50.24	2.75
2420	62.15	3.88	5250	51.11	2.81
2430	56.64	3.64	5300	54.59	3.16
2440	56.52	3.72	5350	57.46	3.14
2450	58.7	3.77	5400	53.93	2.37
2460	55.23	3.75	5450	53.36	2.11
2470	53.98	3.75	5500	52.08	2.27
2480	54.55	3.9	5550	51.19	2.36
2490	55.82	4.1	5600	50.15	2.36
2500	57.36	4.16	5650	52.08	2.58
			5700	55.36	3.02
			5750	54.59	2.58
			5800	53.55	2.34
			5850	55.56	2.77



六、ROHS/ Raw material list:

Meet RoHS requirements。

Serial number	Name	Material	QTY	Unit	Supplier	UL certification number
1	PCB	FR-4	1	pc	Junyi	/
2	1.37 Coaxial line	Tinning/FEP	1	pc	China Ocean Unicom	/
3	Terminal	Phosphor bronze	1	pc	Kexincheng	/
4	Linear sponge	Sponge T10	1	pc	Pengsheng	/
5	Double-sided adhesive	3M300LSE	1	pc	Pengsheng	/