

# Acknowledgement

## SPECIFICATION FOR APPROVAL

CUSTOMER NAME: 360

PRODUCT NAME: 2.4 G 3dBi Internal antenna L=100mm

CUSTOMER P/N:

Ren Feng P/N: U00T02S000N02804 REV: A

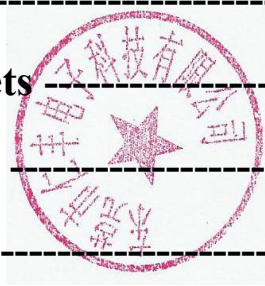
Internal structure: PCB

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Zhou Rongchuang	
AUDITOR BY:	Xiao-Lin Liu	
APPROVED BY:	Yao Dingjun	
DATE:	2023-02-21	



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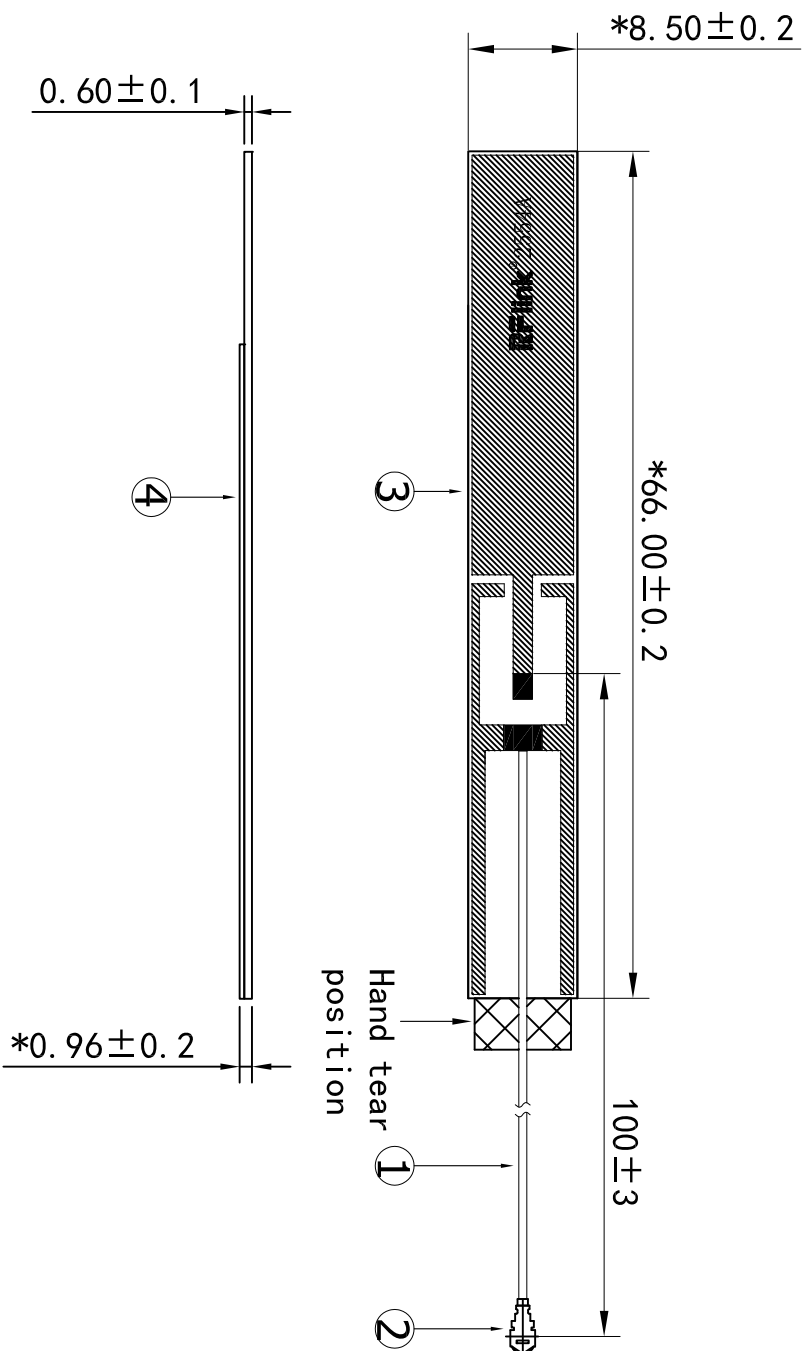
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### Main technical specifications

Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500MHZ	Frequency Range (MHZ)	2400-2500
Impedance( $\Omega$ )	50	Impedance( $\Omega$ )	50
Gain(dBi)	3	Gain(dBi)	3
Return Loss(dB)	$\leq -9.5$	Return Loss(dB)	$\leq -9.5$
VSWR	$\leq 2.0$	VSWR	$\leq 2.0$
Polarization	Linear, Vertical	Polarization	Linear, Vertical
Radiation	Omni-directional	Radiation	Omni-directional
Connector Type	terminal	Connector Type	terminal
Physical Properties		Physical Properties	
AntennaBase	PCB	Antenna Base	FR-4
Operating Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Storage Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

REV	DATE	DESCRIPTION	Change the code
A	2023-02-17	NEW ISSUE	



规格 Specification:  
频率 Frequency Range: 2. 4-2. 5GHz

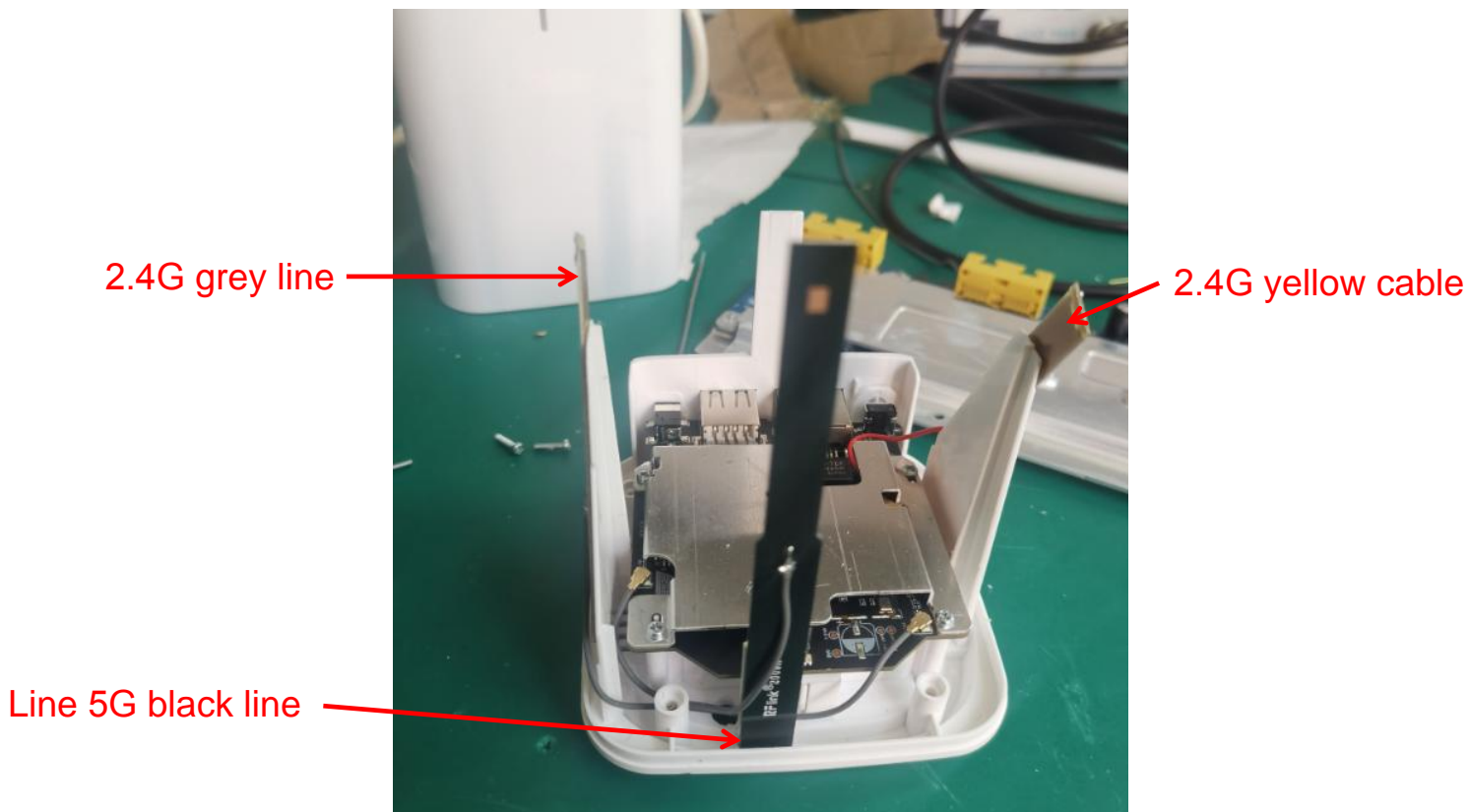
4	Double-sided adhesive	1	3M300LSE;
3	PCB	1	FR-4;
2	terminal	1	Copper;
1	Wire bar	1	φ1.13 Yellow;
6	DESCRIPTION	QTY	REMARK

A	B	C	D	E	F	G
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尺寸范围 (mm)	公差 (mm)	APPROVED	CUSTOMER:	RFink		
0<L≤6	±0.10	CHECKED	PART NO :	东莞市仁丰电子科技有限公司		
6<L≤30	±0.10		PARTNAME :	RenFeng Electronic technology		
30<L≤90	±0.15	DRAWING	R.F P/NO :	Co., LTD.		
90<L≤180	±0.20		REV	UNIT	SCALE	SIZE
180<L≤315	±0.25	A	mm	1:1	A4	10F1
315<L≤800	±0.35	角度				
	±0.5°	DRAWING				

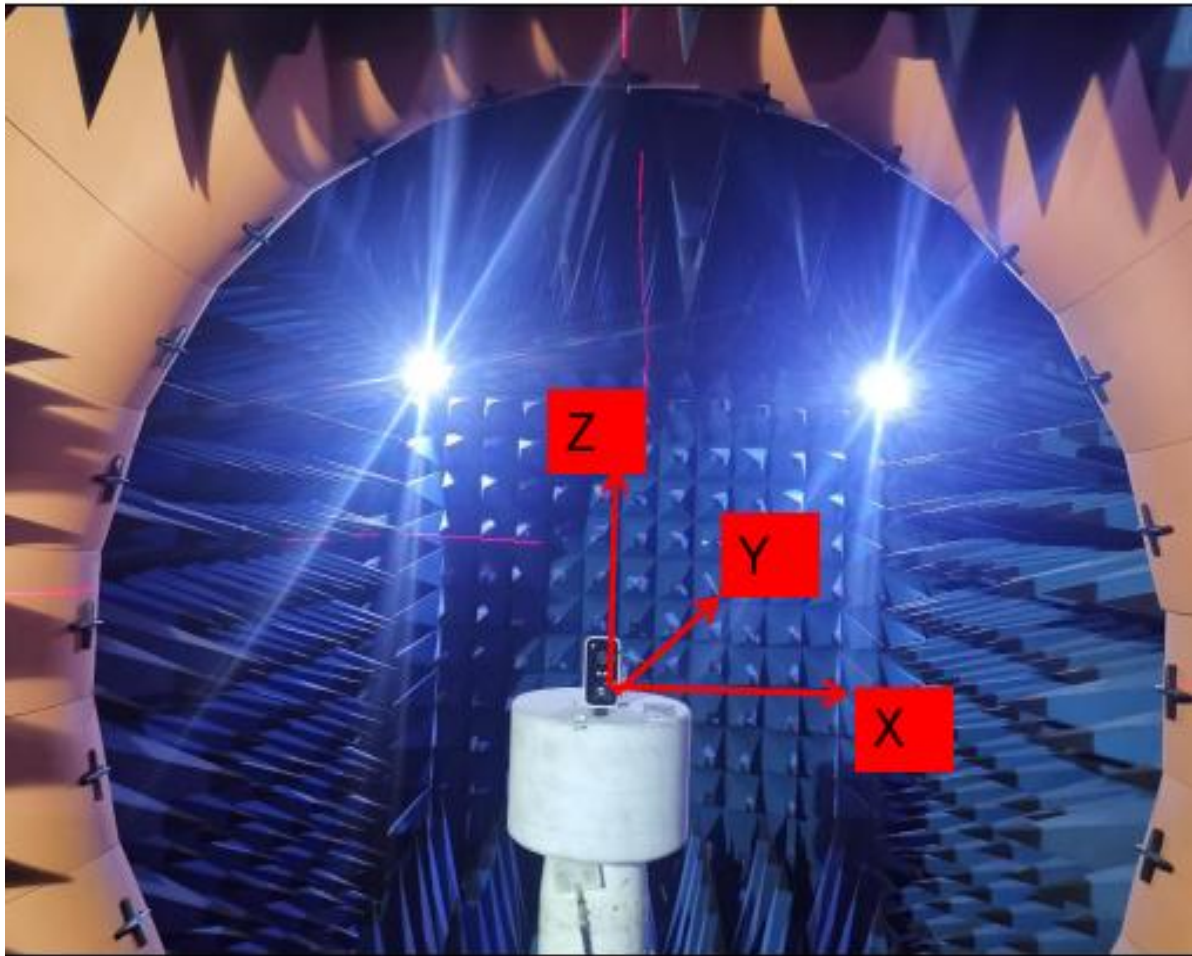
# Antenna assembly diagram

Machine equipment WIFI antenna



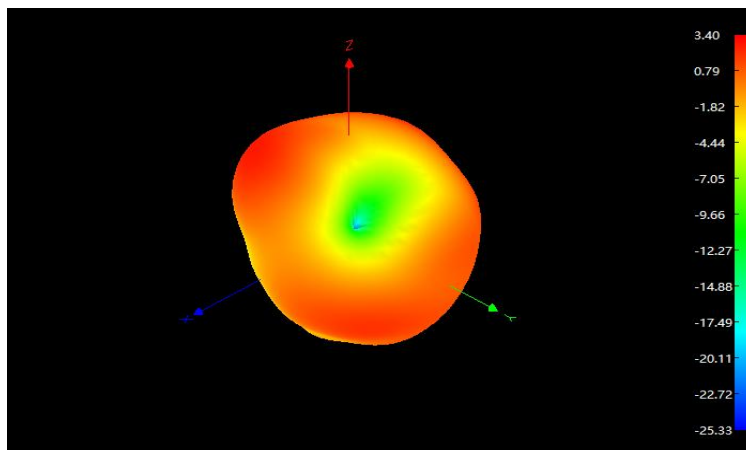
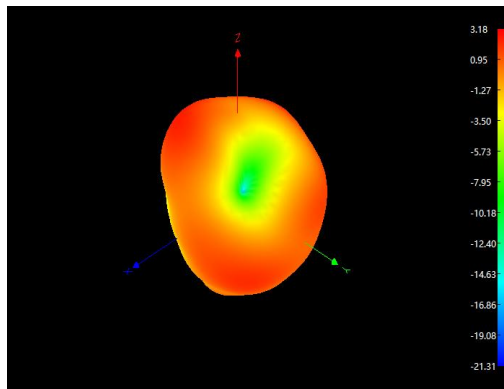
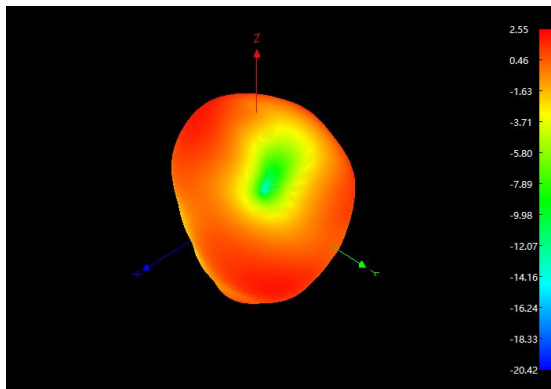
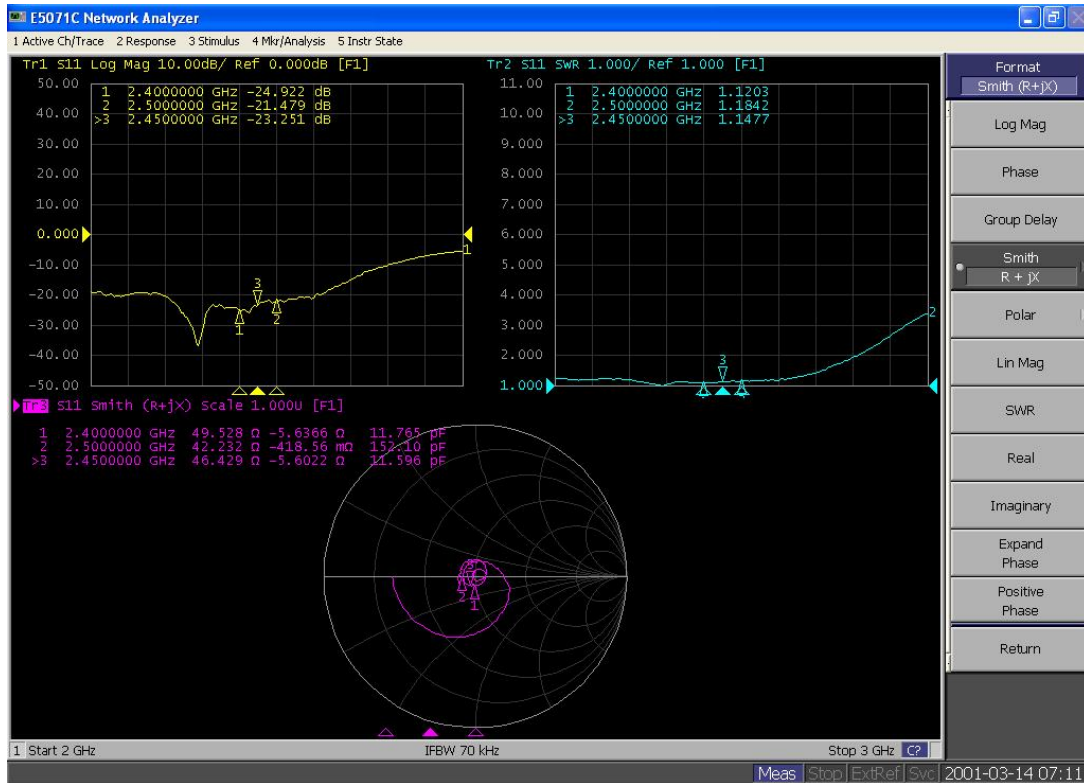
# Antenna assembly diagram

Horizontal plane: XY plane



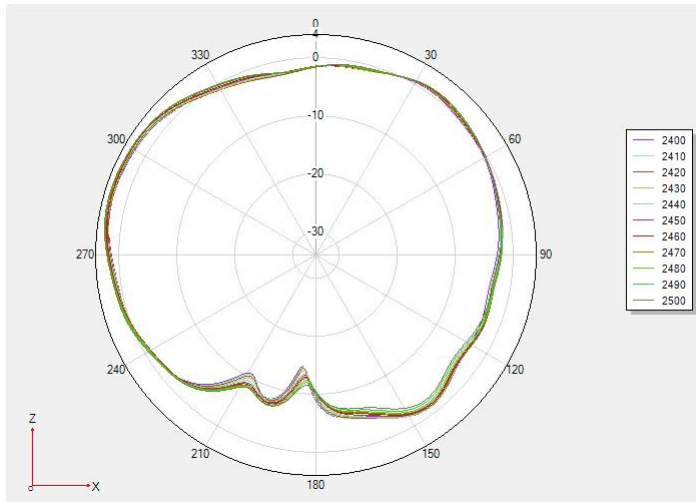
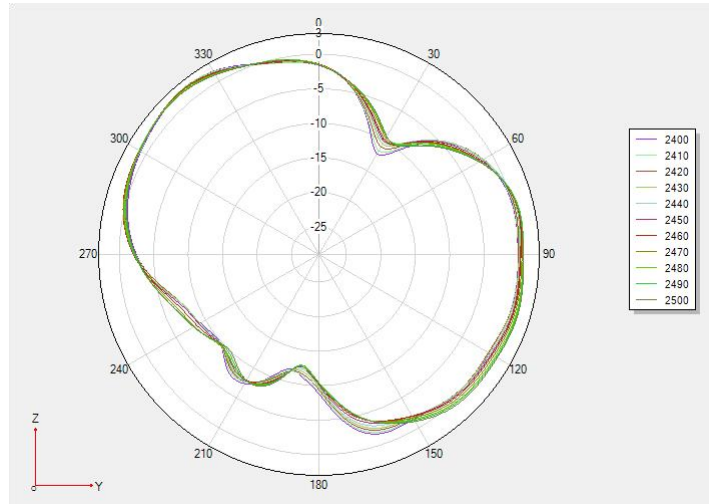
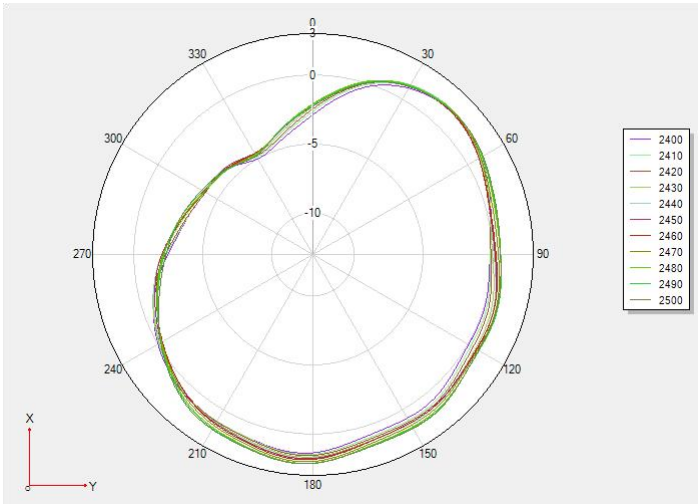
## 6. Testing report

### 6.1 Network analyzer test report





## BasestationWiFi1-2D



6.2:Antenna gain,efficiency meter

Freq (MHz)	Effi (%)	Gain (dBi)
2400	71.85	2.55
2410	73.95	2.62
2420	74.72	2.75
2430	76.1	2.93
2440	76.7	3.11
2450	75.7	3.18
2460	74.14	3.25
2470	73.95	3.31
2480	74.14	3.38
2490	73.18	3.38
2500	72.99	3.4

7、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	1.13 Coaxial line	Tinning/FEP	1	pc	China Ocean Unicom	/
3	Terminal	Phosphor bronze	1	pc	Kexincheng	/
4	Linear sponge	Sponge T10	1	pc	Pengsheng	/