

# Acknowledgement

## SPECIFICATION FOR APPROVAL

CUSTOMER NAME: 360

PRODUCT NAME: 5 G 3dBi Internal antenna L=85mm

CUSTOMER P/N:

Ren Feng P/N: U00T02S000N02805 REV: A

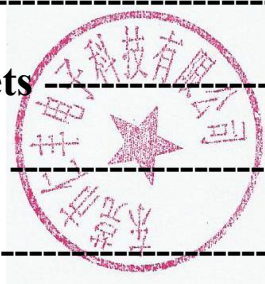
Internal structure: PCB

	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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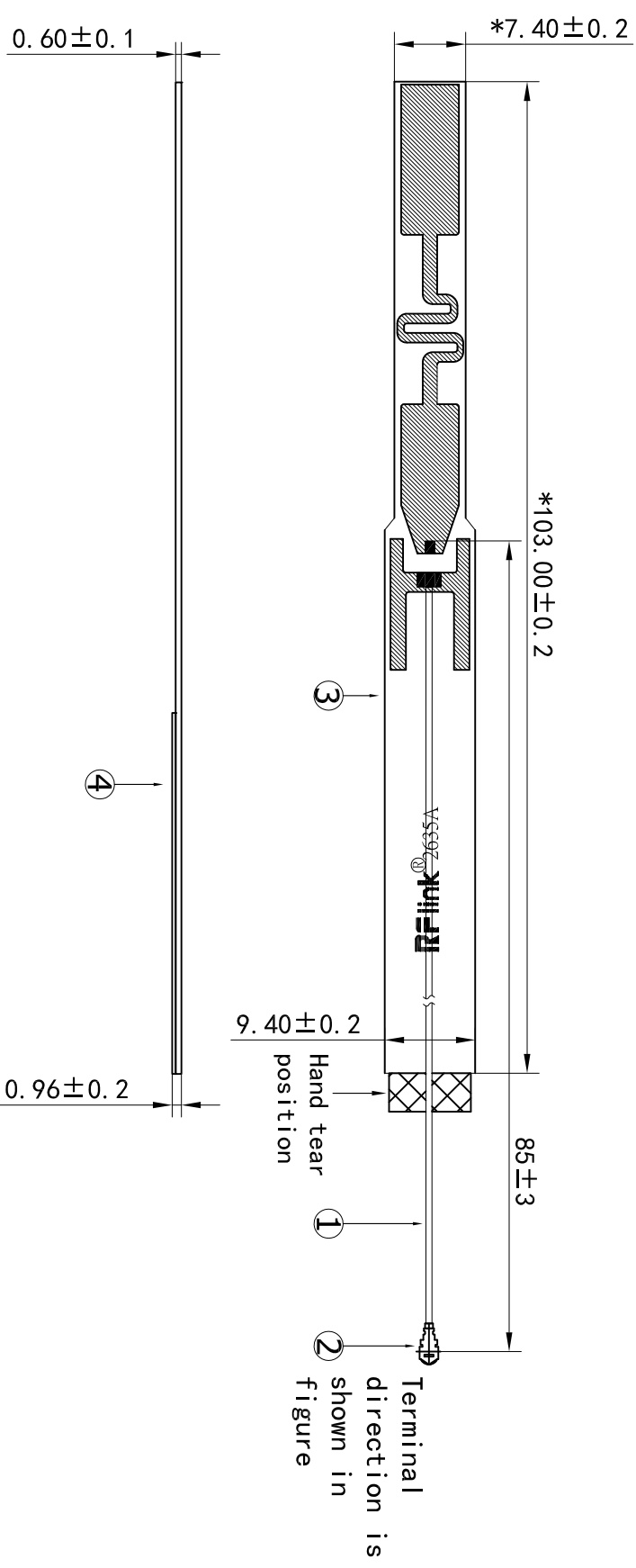
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### Main technical specifications

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: 5.15-5.85GHz

NO.	DESCRIPTION	QTY	REMARK
4	Double-sided adhesive	1	3M300LSE:
3	PCB	1	FR-4:
2	terminal	1	Copper:
1	Wire bar	1	φ1.13 Black:

尺寸范围 (mm)	公差 (mm)
0<L≤6	±0.10
6<L≤30	±0.10
30<L≤90	±0.15
90<L≤180	±0.20
180<L≤315	±0.25
315<L≤800	±0.35
角度	±0.5°

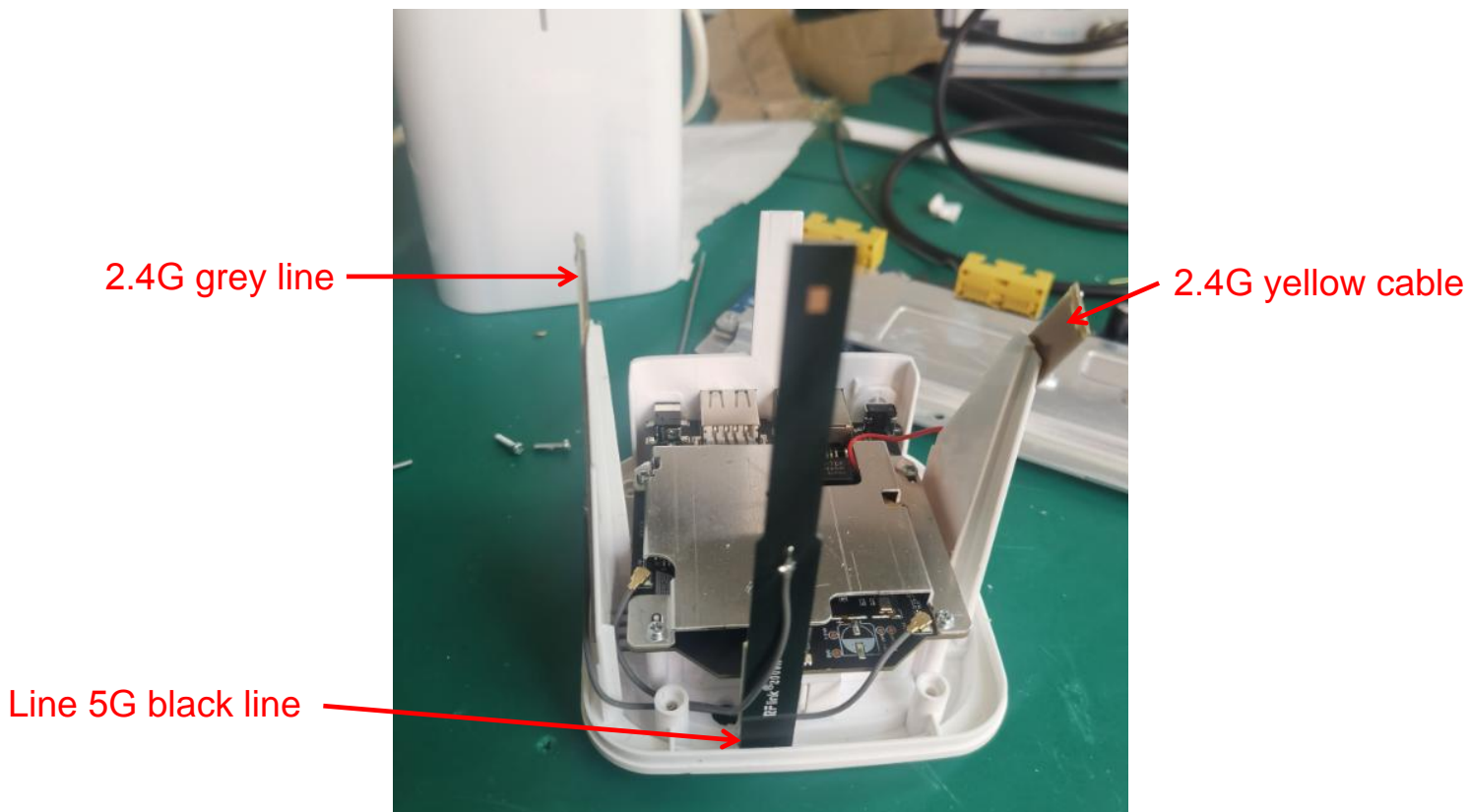
APPROVED	CHECKED	DRAWING

CUSTOMER:				
PART NO :				
PARTNAME :	RF Antenna Assembly			
R.F P/NO :	U00T02S000N02805			
REV	UNIT	SCALE	SIZE	SHEET
A	mm	1:1	A4	10F1

**RFLink**  
 东莞市仁丰电子科技有限公司  
 RenFeng Electronic technology  
 Co., LTD.

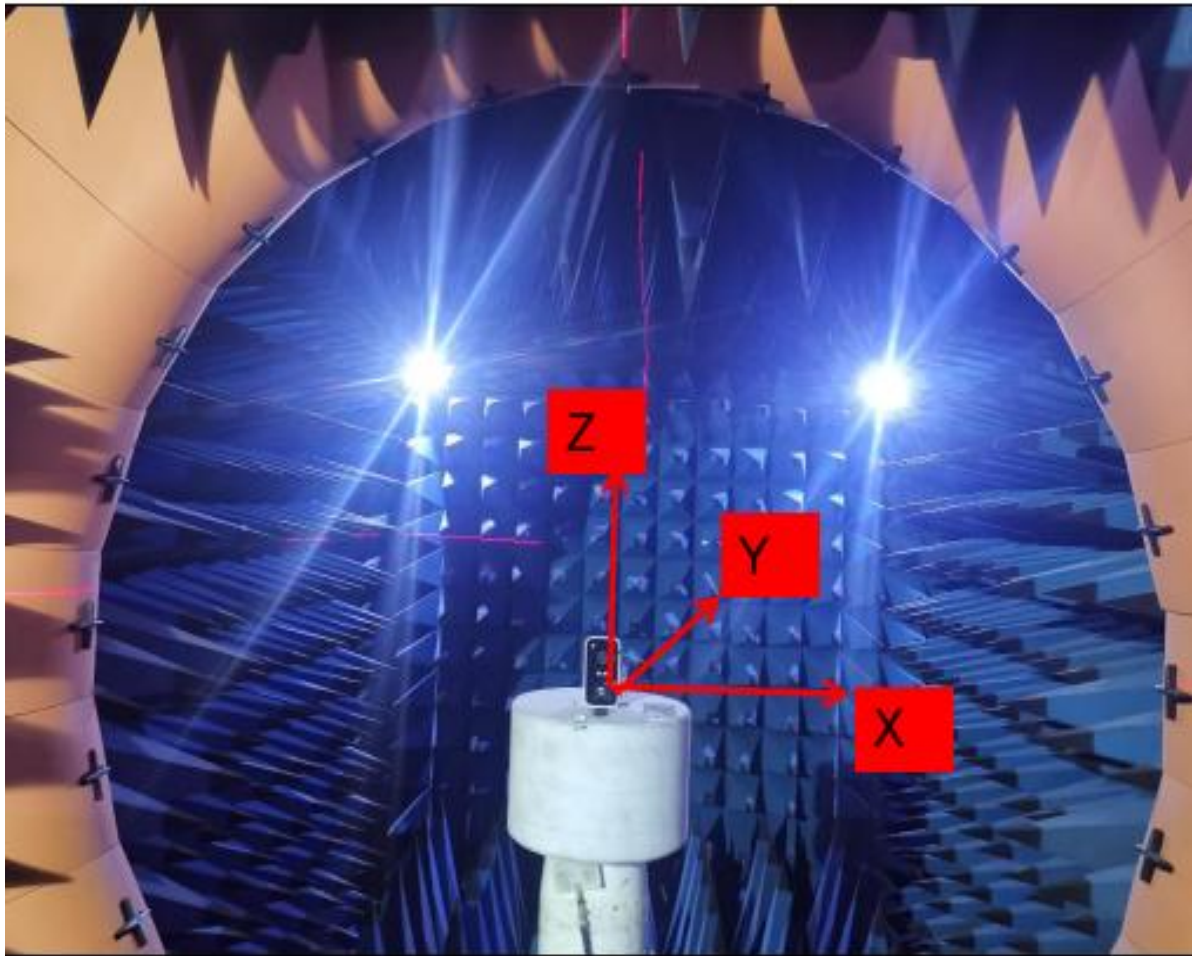
# Antenna assembly diagram

Machine equipment WIFI antenna



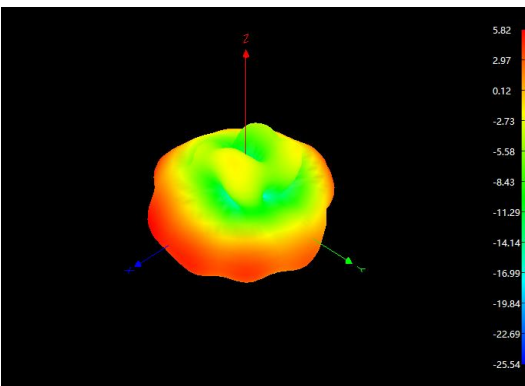
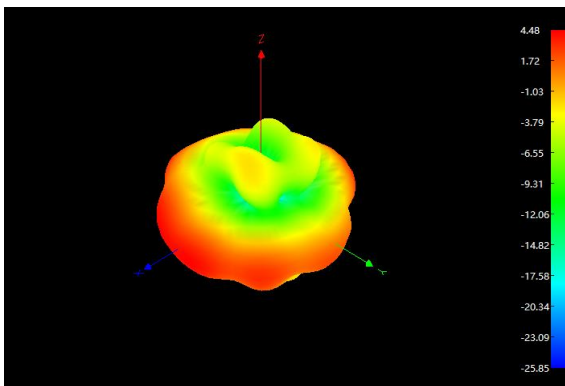
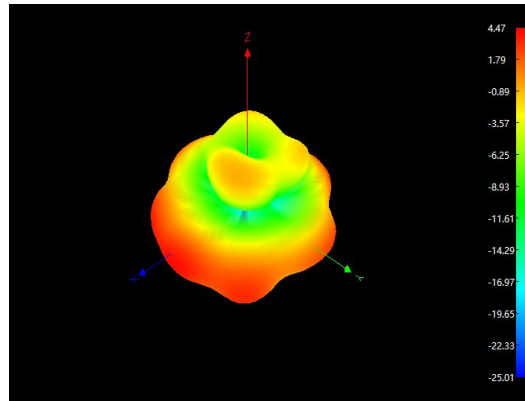
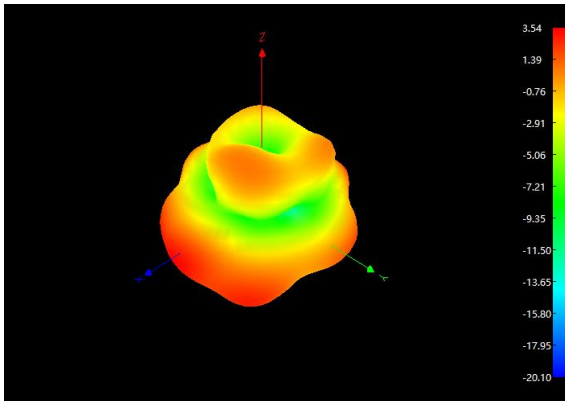
# Antenna assembly diagram

Horizontal plane: XY plane



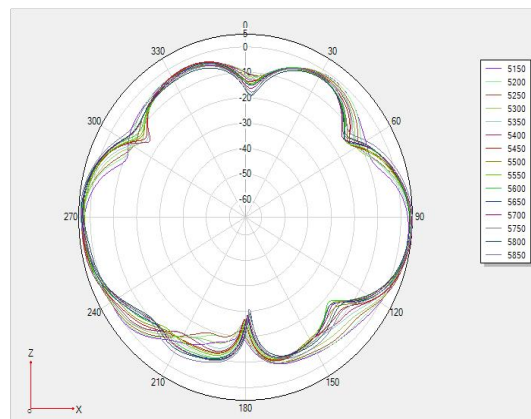
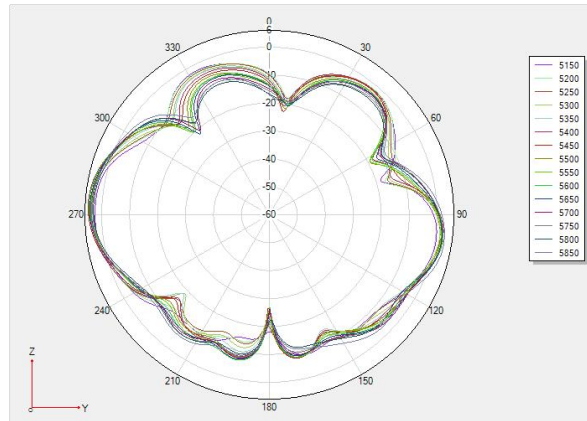
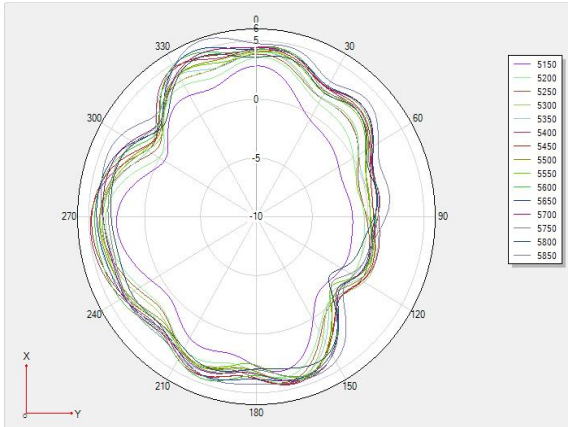
## 6. Testing report

### 6.1 Network analyzer test report





**WIFI2-5G**



6.2:Antenna gain,efficiency meter

Freq (MHz)	Effi (%)	Gain (dBi)
5150	69.74	3.54
5200	72.47	4.14
5250	69.54	4.42
5300	69.54	4.57
5350	69.33	4.47
5400	73.54	5.08
5450	74.19	4.88
5500	70.57	4.39
5550	71.2	4.25
5600	70.36	5.06
5650	72.04	5.22
5700	68.72	4.85
5750	63.18	4.48
5800	65.31	4.56
5850	67.3	5.82

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	/