



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2024/06/20
编号 File No	24062001
版本 Revision	1.0

客 户
CUSTOMER: Fanvil

客户料号
CUSTOMER NO: H603

品 名
PART NAME: WIFI 2 Antenna

供方料号
SUPPLIER NO: YJL01.106.068.301A

送样日期Date:

送样数量Q'TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086
Yuanfu Industrial Zone, No. 59, Muyu Road,
Shatou Community, Chang'an Town, Dongguan City



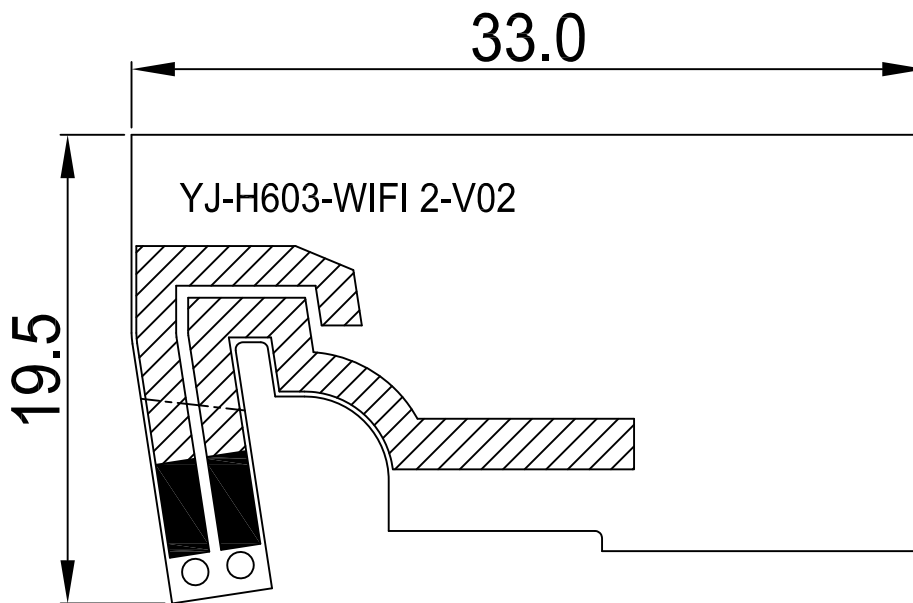
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12	N/A	N/A	N/A
13	-	-	-

RoHS

Compatible

REV.	DESCRIPTION	DATE
△	首次发行	2024-04-29
△	修改外形及线路	2024-06-11



布線區

焊点區

備注:

- 材質：一对半基材；FPC厚度：0.1mm。
- 顏色/表面處理：焊点鍍金；背面3M膠帶分割線
顏色：黑色油墨，白色絲印。
- 尺寸：帶*為重點尺寸。
- 公差：未標注公差參照標準公差。
- 包裝方式：使用微黏包裝出貨。

 东莞市一佳电子通讯科技有限公司 Dongguan YiJia Electronics Communication Technology Co.,Ltd. Tel :0769-82586086 Fax:0769-82586086				
PART NAME: WIFI 2 Antenna				
PART NO.:YJL01.106.068.301A			DATE: 2024-06-11	
APPROVED BY	CHECKED BY	DESIDNED BY		Tolerance
何清军	邓磊	廖光喜	UNITS: mm	X.X ±0.50
			SCALE: 1/1	X.XX±0.15
			REVISION: B	X° ±3°



天线规格

Antenna Specification

Electrical Properties

Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	7.0 dBi@2.4-2.5GHz 4.3 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

Physical Properties

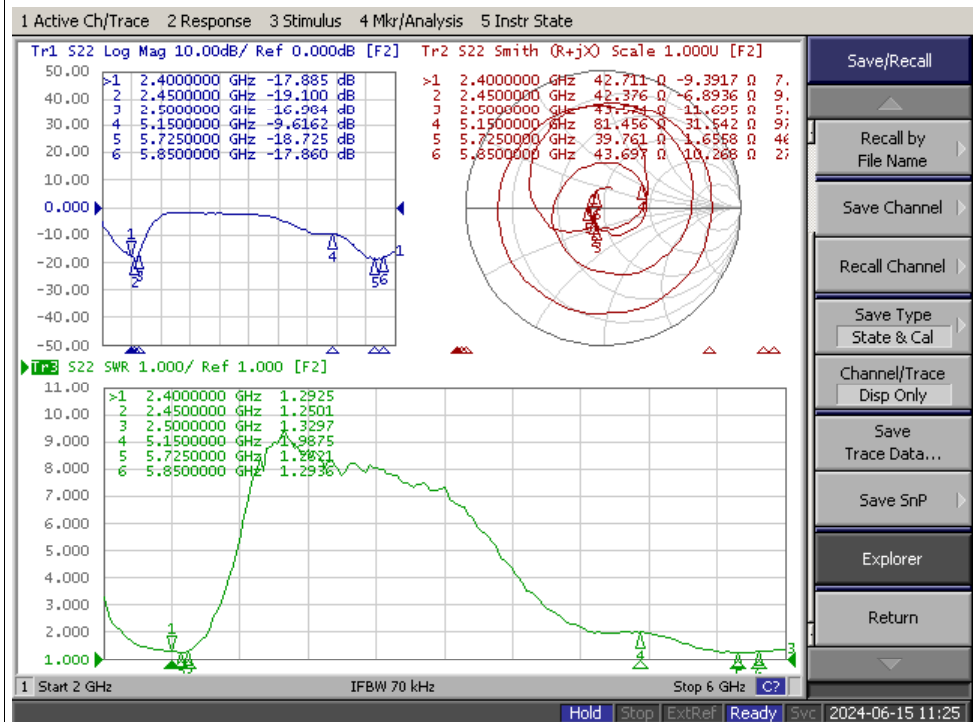
Connector	None
Cable Type	None
Cable Length	None
Cable Color	None
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

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Antenna Performance Test

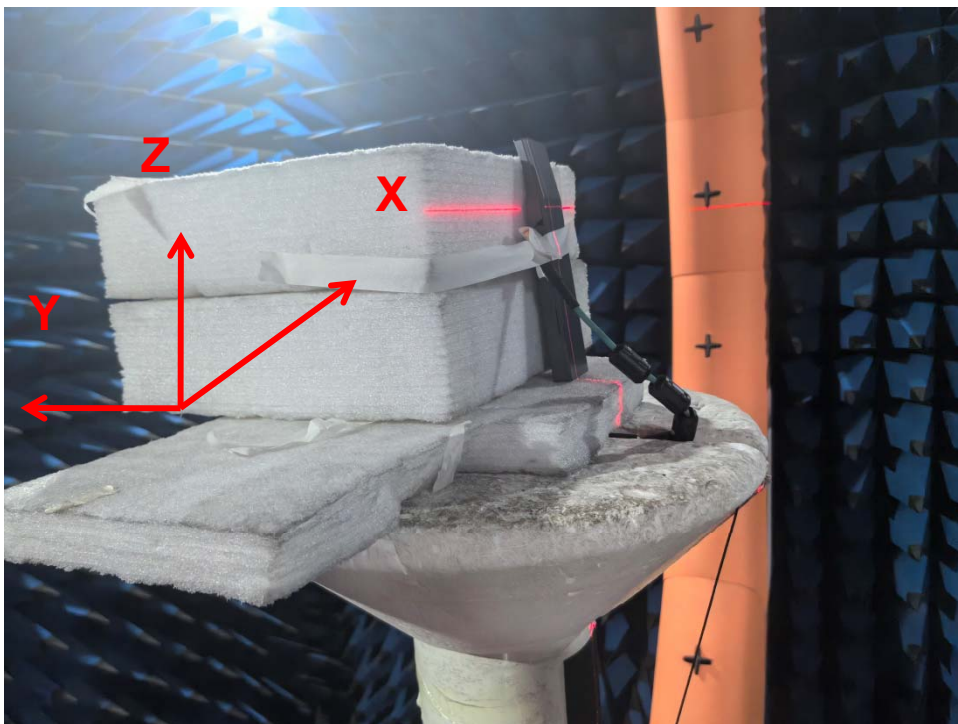
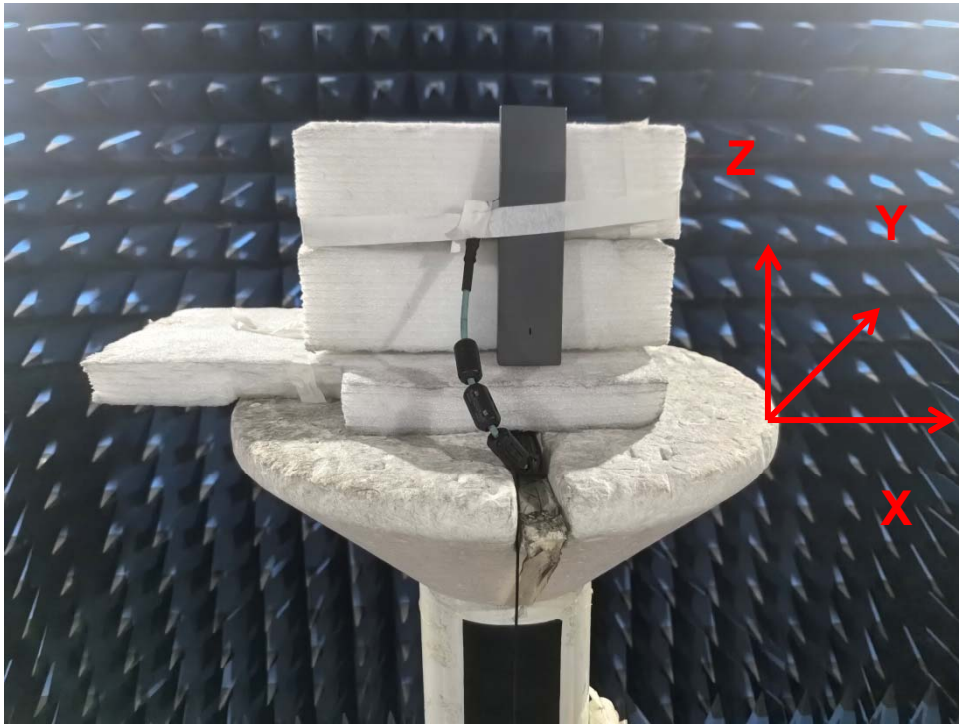
**Agilent
E5071B
S11
Parameter
Test //
WiFi 2
Antenna**



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Antenna Passive Test



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Passive Test For WiFi 2 Antenna (2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	50.8	-2.5	6.8
2410	52.5	-2.4	7.0
2420	54.8	-2.5	6.9
2430	55.5	-2.6	6.9
2440	54.0	-2.7	6.5
2450	56.0	-2.5	6.6
2460	52.3	-2.8	6.2
2470	54.4	-2.6	6.5
2480	51.1	-2.9	6.0
2490	51.9	-2.8	6.1
2500	48.3	-3.2	5.6

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Passive Test For WiFi 2 Antenna (5.8G)

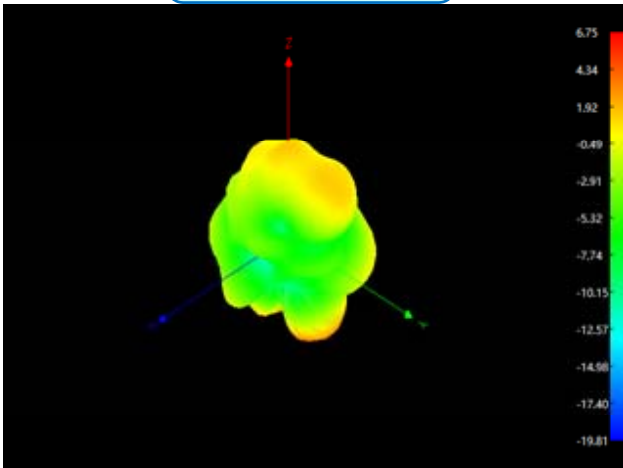
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	43.4	-3.6	2.5
5200	41.1	-3.9	2.5
5250	37.6	-4.3	2.2
5300	39.1	-4.1	2.2
5350	39.9	-4.0	2.4
5400	43.9	-3.6	2.9
5450	43.0	-3.7	2.7
5500	39.3	-4.1	2.8
5550	46.1	-3.4	3.4
5600	47.5	-3.2	3.8
5650	40.6	-3.9	3.3
5700	45.8	-3.4	3.9
5750	50.6	-3.0	4.3
5800	42.9	-3.7	4.0
5850	45.1	-3.5	4.3

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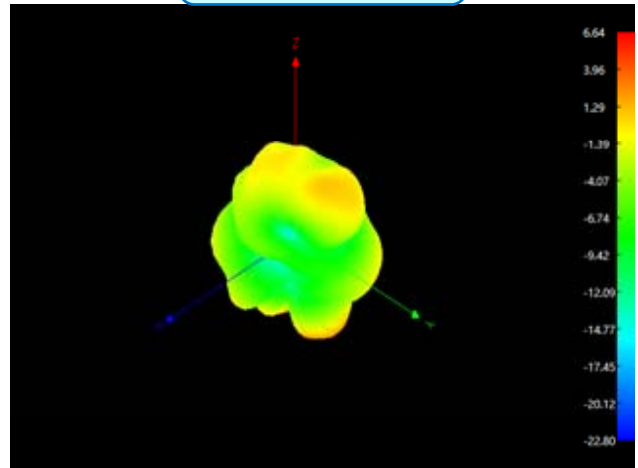


Radiation Pattern For WIFI 2 Antenna

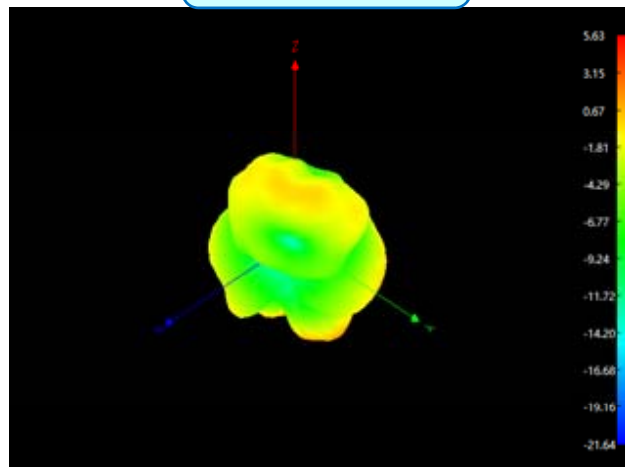
2400MHz



2450MHz

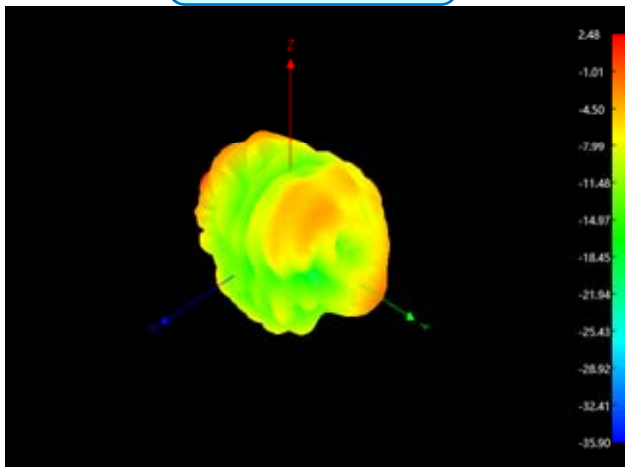


2500MHz

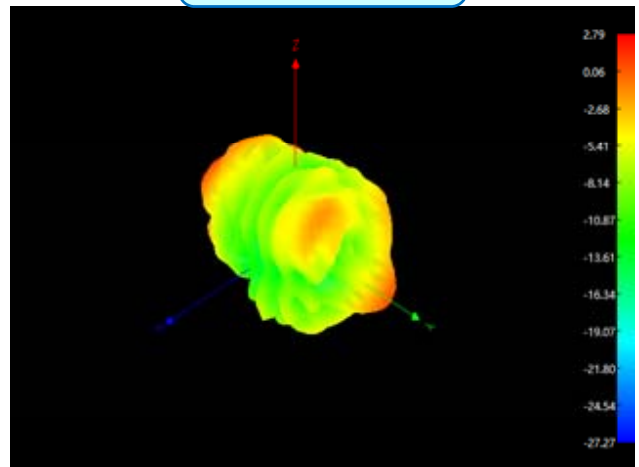




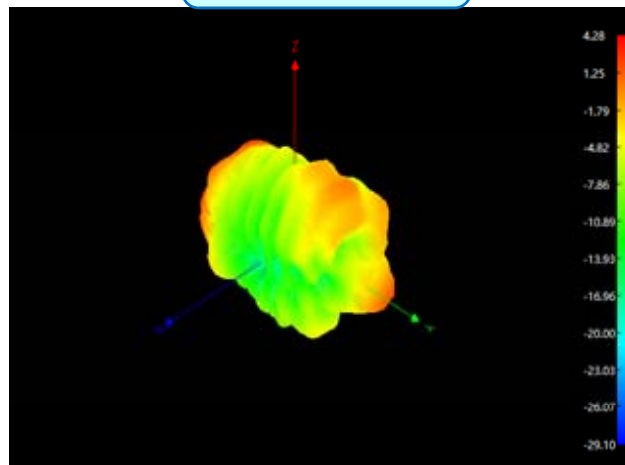
5150MHz



5500MHz

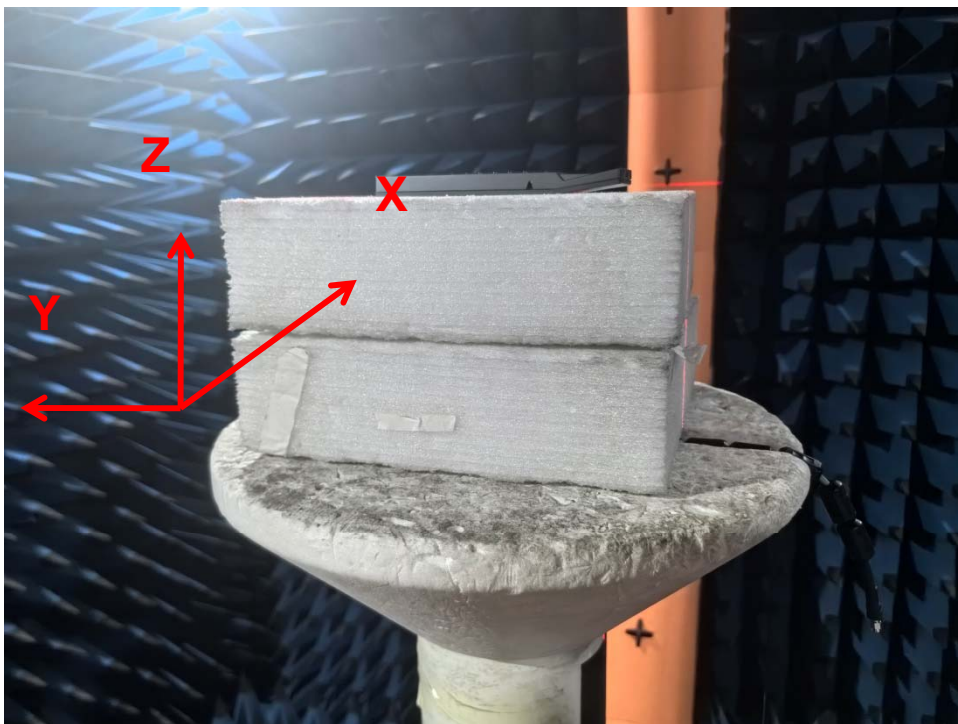
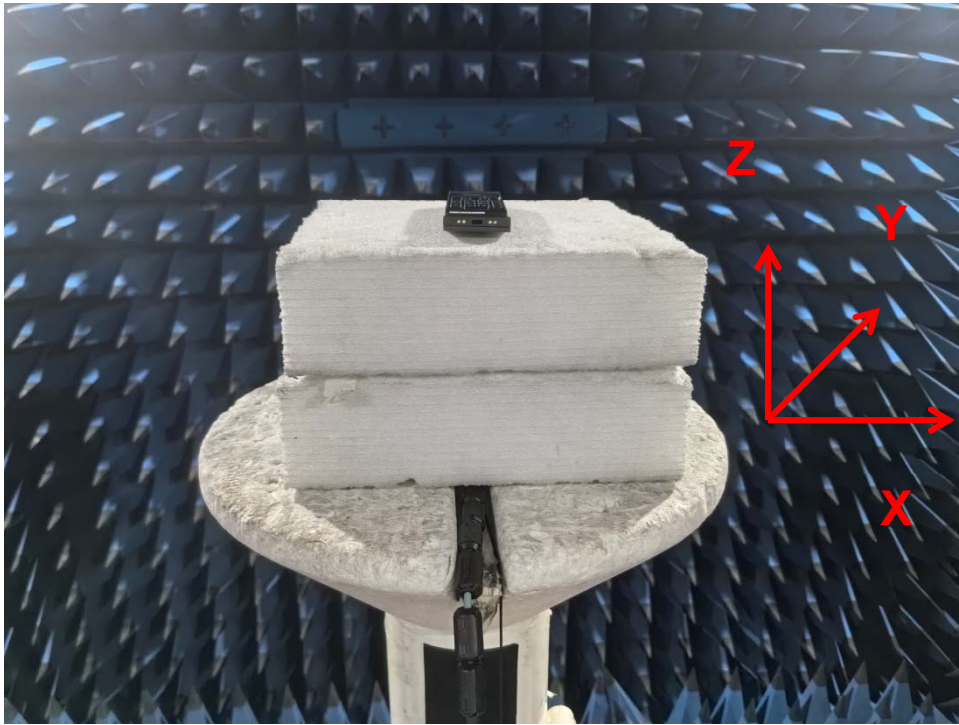


5850MHz





Antenna Active Test



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Active Test For WIFI							
Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11b	1	11Mbps	12.0	14.9	11Mbps	-85.6	-88.5
	7		12.9	16.7		-85.2	-88.7
	13		12.3	16.7		-85.3	-88.1
WIFI 5G 802.11a	36	6Mbps	12.6	17.7	54Mbps	-75.1	-79.3
	100		13.7	19.4		-74.8	-79.6
	165		13.2	18.3		-74.3	-79.5

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Device



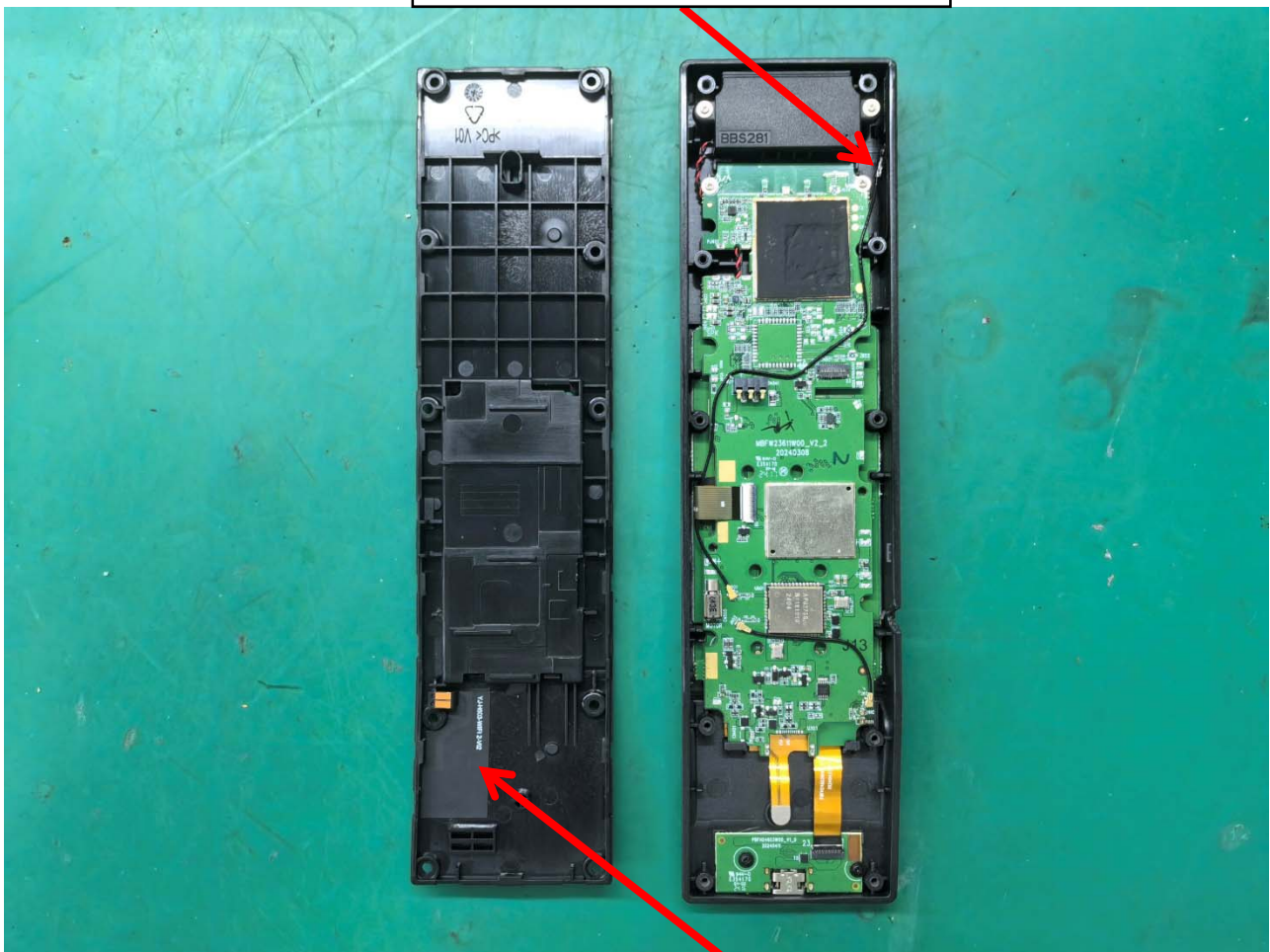


WiFi 2 Antenna





WiFi 1 Antenna



WiFi 2 Antenna