



SPECIFICATIONS FOR APPROVAL

The specification data is the sample antenna data. Due to factors such as the product not being glued to the shell, there may be differences between the trial production machine and the specification data. However, after correction with the trial production machine, the data can remain consistent with the specification data

Antenna manufacturer: Shenzhen Lejin radio frequency technology Co., LTD

Company Address: 3rd Floor, Building A4, No. 176 Chongqing Road, Fuhai Street, Bao'an District, Shenzhen, Guangdong Province. (Phone number: 13603098741)

Customer Name: JXX

Product Name: LJF02-240617002M-R0A

Product Model: M1563(6221C) WIFI M ANT

Part Number:

Write By : 李明进

Issued Date: 2024/6/17

CUSTOMER				
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY	DATE	Edition/Part number

LEJIN				
R&D DEPT	ENGINEER R&D DEPT	APPROVAL	DATE	Edition/Part number

ECN/ECR			

Index

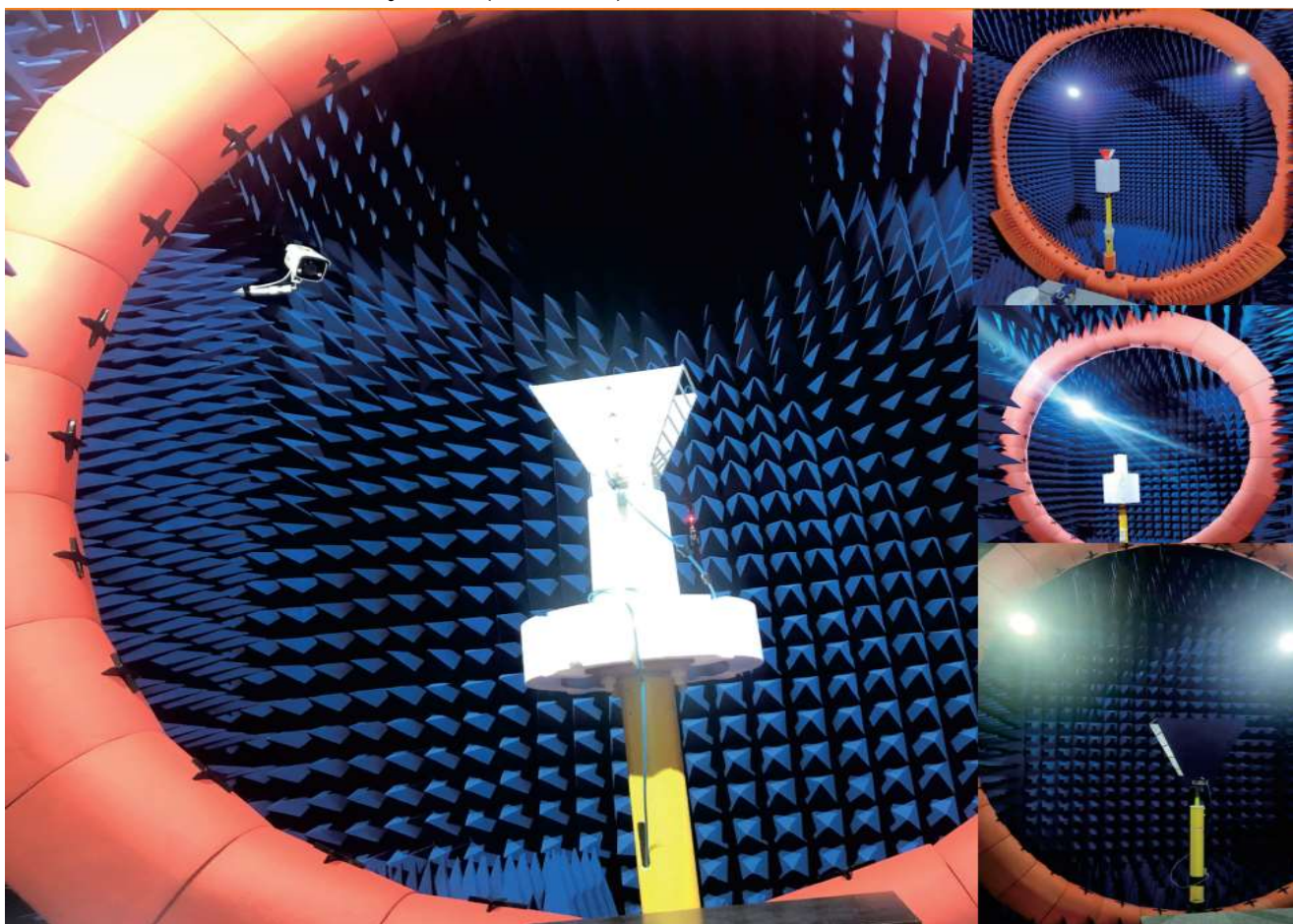
- 1、 (Cover)
- 2、 (Index)
- 3、 (Product Specification)
- 4、 (Test Equipment & Conditions)
- 5、 (Test Report)
- 6、 (Antenna Picture)



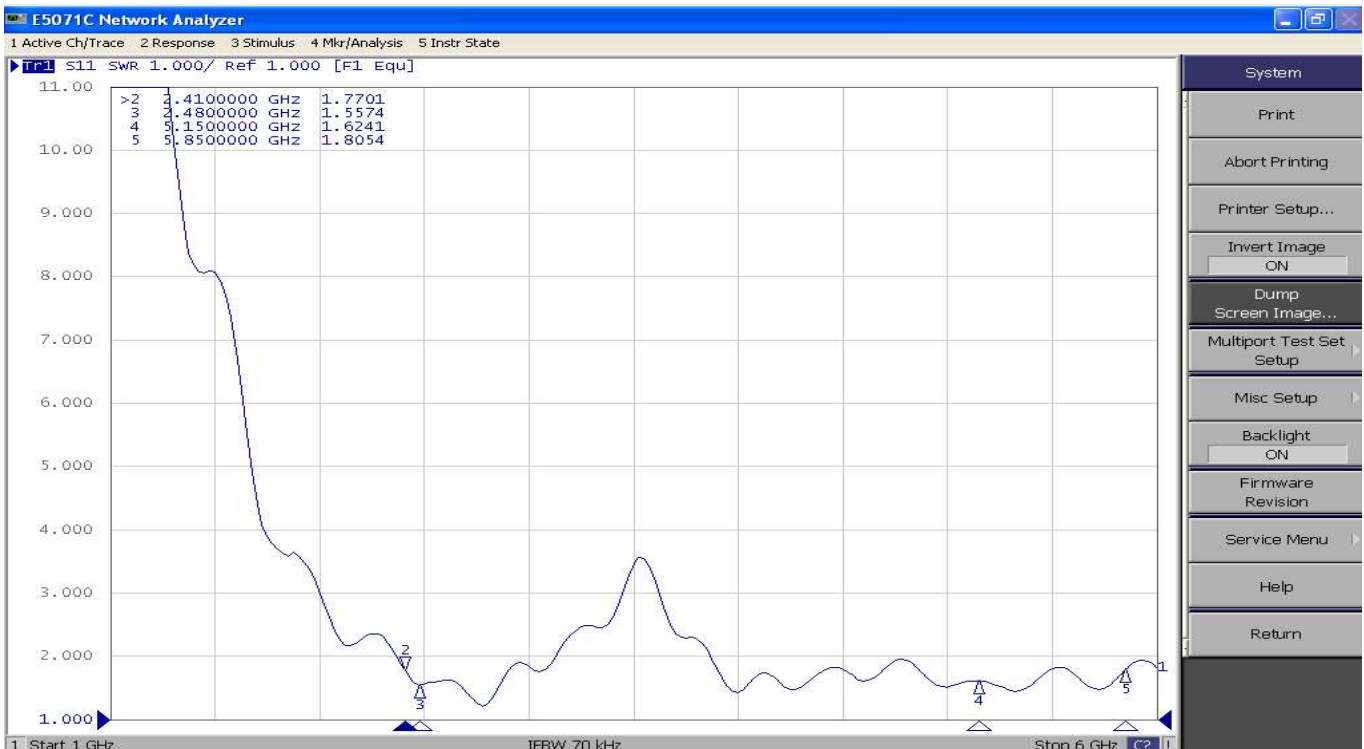
Electrical Characteristics					
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<1.5	>40%	50 Ohm	Linear	≥0DB
5100MHZ--5900 MHz	<2.5	>45%	50 Ohm	Linear	≥0 DB
Material & Mechanical Characteristics				Environmental	
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
BL	1.13 Black	KCC451-420		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

Test Equipment & Conditions

1. Network Analyzers :Agilent 5071C
2. Communications Test Set:Agilent E5515C/CMW500/AT8826
3. 3D Chamber Test System(ETS743)/STM23+1

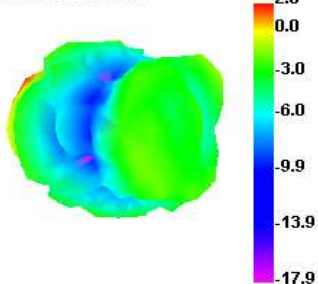


Antenna Impedance: WIFI ANT M:

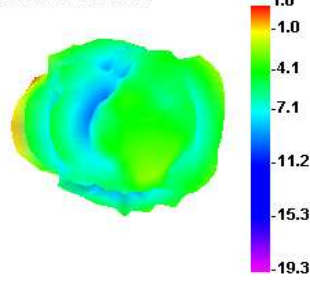


2.4G (Wifi/BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500	ANTM
	Effi (%)	46.45	44.1	45.06	43.77	46.96	48.49	45.56	44.57	45.59	47.51	
	Gain (dBi)	2	2.13	1.89	1.57	1.02	1.11	0.97	0.99	2.35	2.74	
5G WIFI	Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6000	
	Effi (%)	44.25	43.31	40.67	39.87	40.12	43.33	45.71	46.32	41.56	46.77	
	Gain (dBi)	1.52	1.56	1.37	1.68	1.98	2.08	2.96	2.61	2.23	2.17	

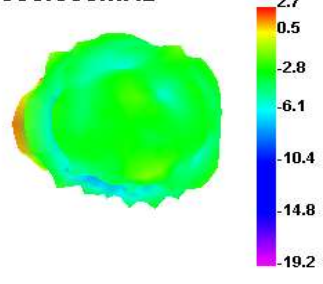
2400.000MHz



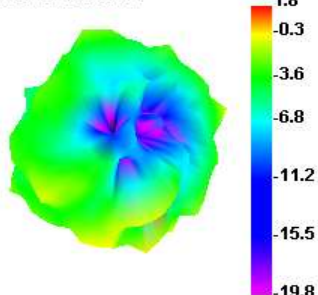
2450.000MHz



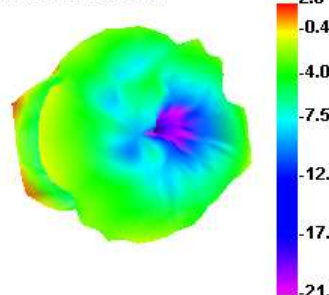
2500.000MHz



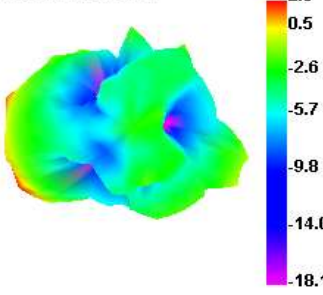
5150.000MHz



5550.000MHz



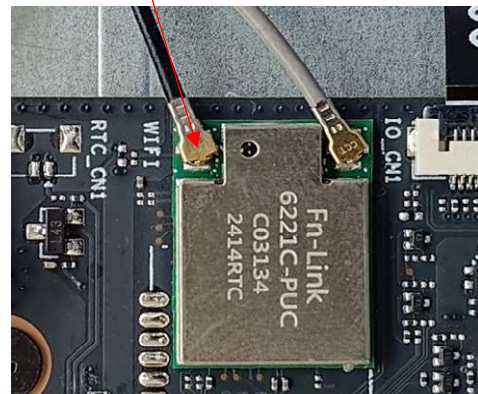
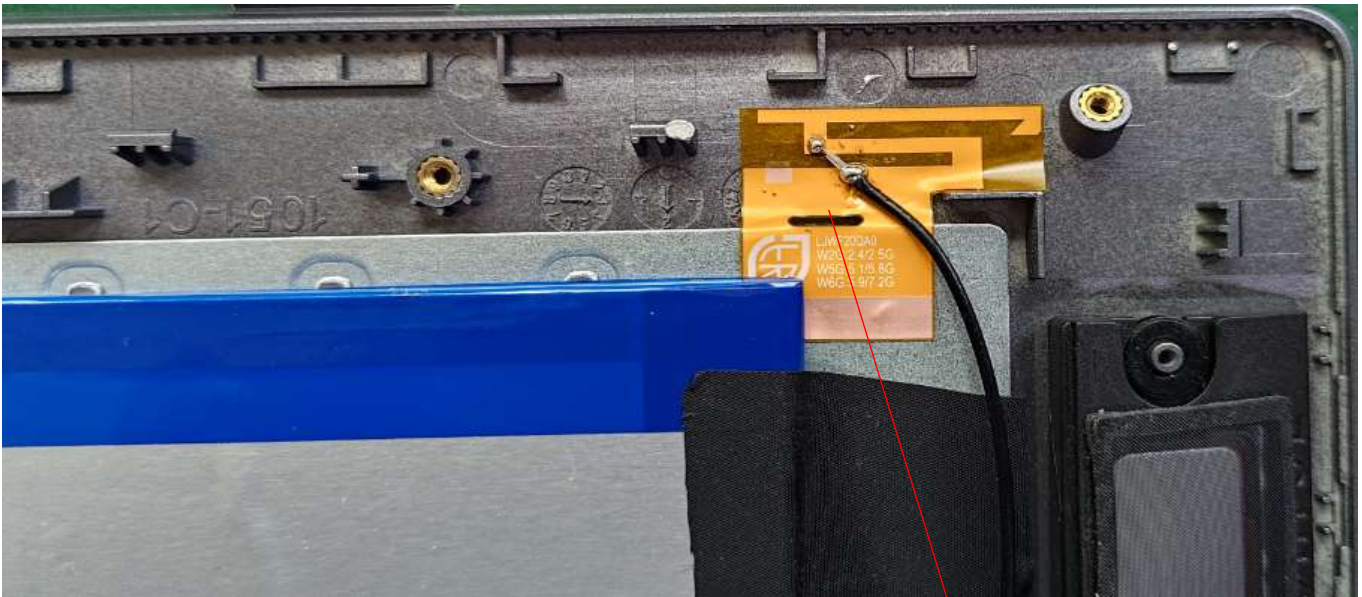
5850.000MHz

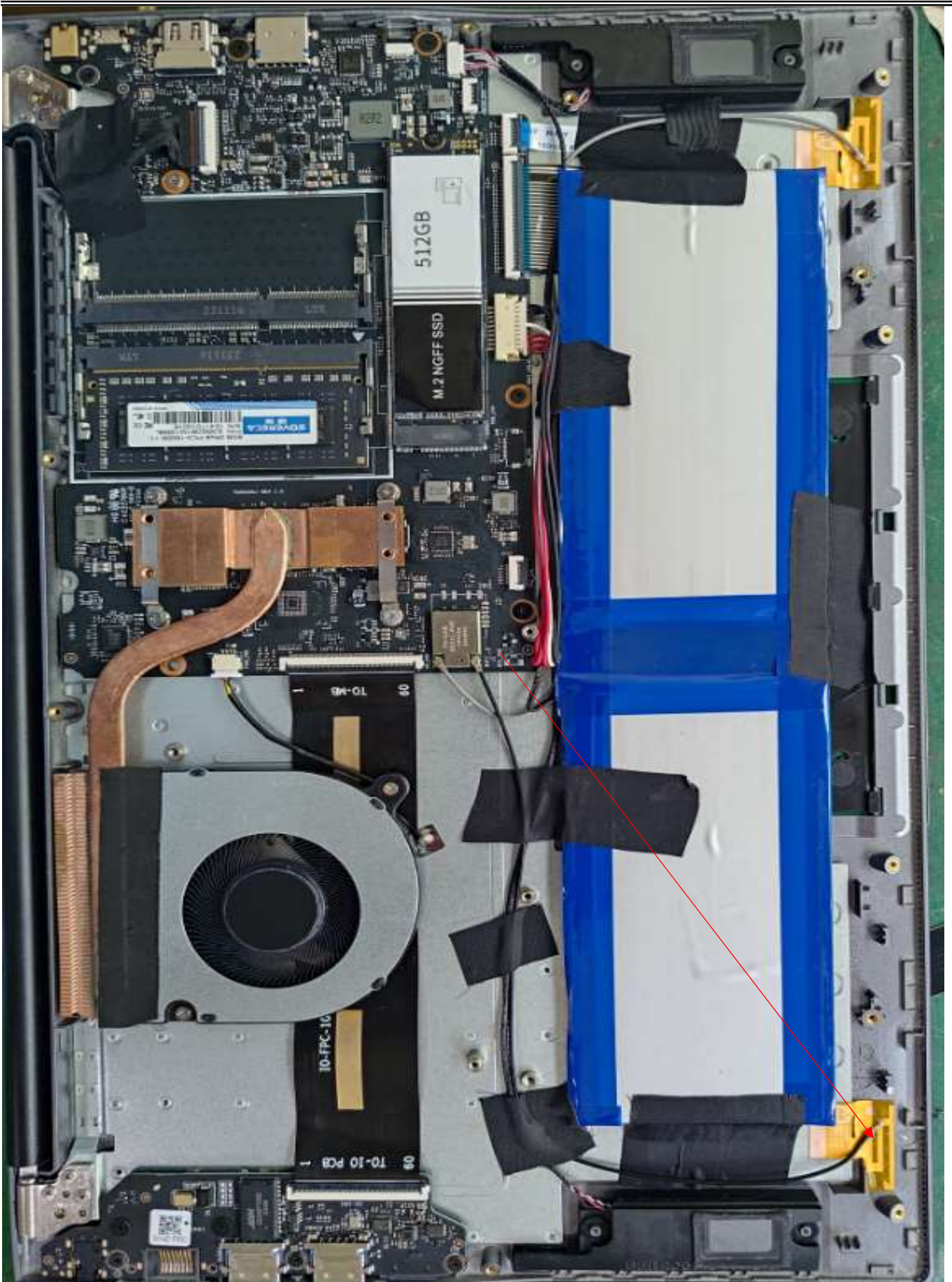


Active OTA: (Combined with AUX ANT measurement for composite data)

WIFI Antenna Performance Table									
TRP /TIS(dBm)		13.50	-76.13	TRP /TIS(dBm)		13.45	-69.32	2.4G WIFI	
802.11B	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11G	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Tx_11M / Rx_11M	1	2412	13.55	-75.47	Tx_54M / Rx_54M	1	2412	13.23	-69.89
	6	2437	13.27	-76.56		6	2437	13.96	-68.75
	11	2462	13.69	-76.35		11	2462	13.17	-69.32
WIFI Antenna Performance Table									
FI Whole Band TRP /TIS(dBm)		13.08	-69.14	FI Whole Band TRP /TIS(dBm)		12.61	-66.91	5.8G WIFI	
802.11A	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11AC	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Tx_6M / Rx_54M	36	5180	13.75	-68.11	Tx_MCS7 / Rx_MCS7	36	5180	12.34	-66.11
	149	5745	12.96	-69.45		149	5745	12.51	-67.15
	165	5825	12.53	-69.87		165	5825	12.98	-67.47

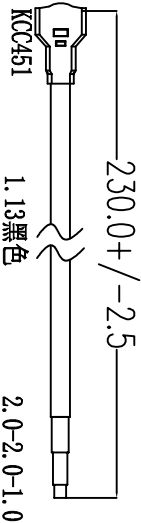
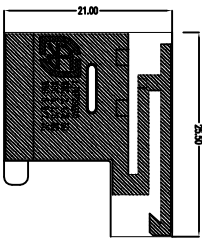
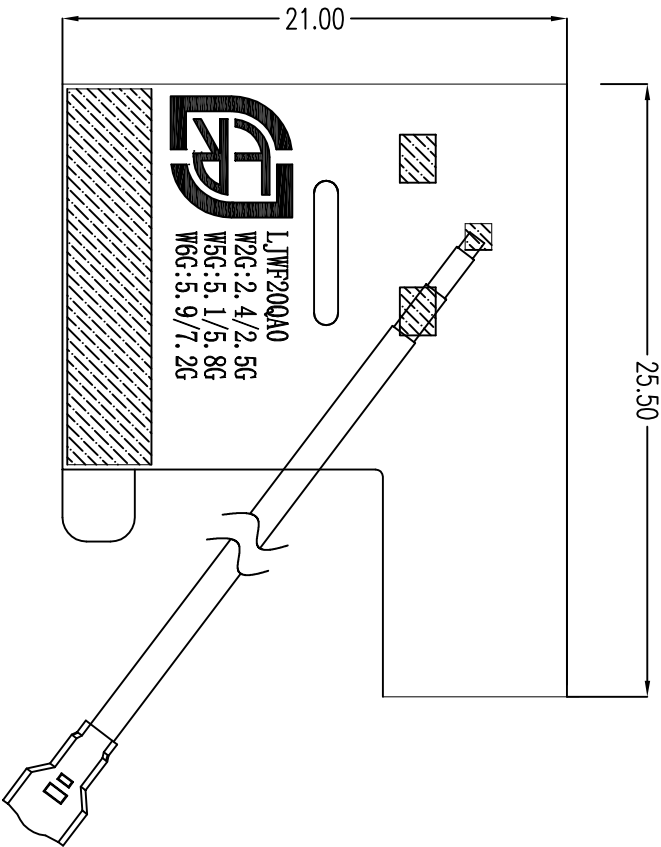
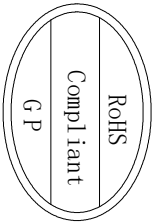
Antenna Installation:





Drawing:

A



深圳乐进射频科技有限公司
SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD

Project: JXX_R1563 Date: 2024-06-17

Part Name: WIFI MAIN ANT Part No.: LJWF20QXX

Material: 30~40 ±0.15 0.04

Location: 40~ ±0.20 Angle: ±0.5°

Treatment: LJF02-240617002M-R0A

Unit: mm Scale: FIT Rev: A

D

Rev	Description	Date	Remark
1	New drawing		
2	Description		

Rev	Description	Date	Remark
1	New drawing		
2	Description		

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