

Sample Acknowledgment Letter

Customer name

Zwide TECHNOLOGY (HK) LIMITED

Product name

MP1A

Specification description

WIFI (2G+5G)_M_ANT

Customer part number

Supplier part number

LJF02-230704001M-ROA

Delivery date

2023/7/4

Customer Controlled Document Stamp

Customer

	BUSSINESS DEPT	ENGINEER R&D DEPT	APPROVED BY
Zwide			

Supplier

	ENGINEER R&D DEPT	APPROVAL	BUSSINESS DEPT
Lejin			

Company Name: ShenzhenLejin radio
frequency technology Co., LTD

Company Fax: 0755-27219840

Company website: www.szljrf.com

Phone: 0755-23141636

e-mail address: dely.wei@szljrf.com

Company Address: 3rd Floor B, Building A4, Junfeng
Zhongcheng Intelligent Manufacturing Innovation
Park, No. 176 Chongqing Road, Fuhai Street, Fuyong
Town, Bao'an District, Shenzhen



ShenzhenLejin radio frequency technology Co., LTD

Customer Name: Zwide TECHNOLOGY (HK) LIMITED

Product Name: WIFI (2G+5G) and BT ANT (AUX)

Product Model: MP1A (AX101)

Part Number: LJF02-230704001M-R0A

Write By : Pengsiheng

Issued Date: 2023/7/4

CUSTOMER			
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY	DATE

LEJIN			
R&D DEPT	ENGINEER R&D DEPT	APPROVAL	DATE

ECN/ECR			



Index

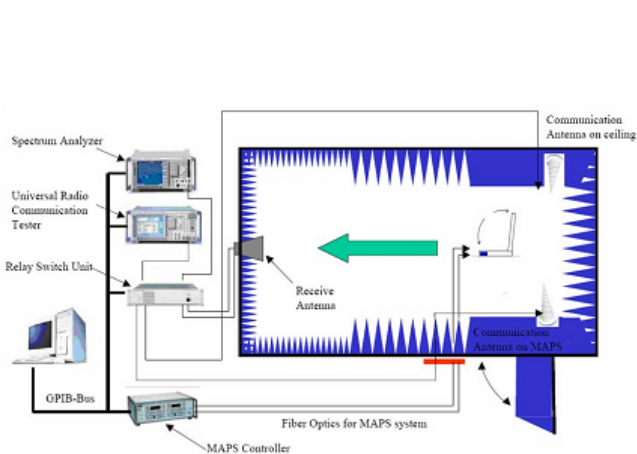
- 1、 Cover
- 2、 Index
- 3、 Product Specification
- 4、 Test Equipment & Conditions
- 5、 Test Repor
- 6、 Antenna Picture
- 7、 Product Drawing

Electrical Characteristics

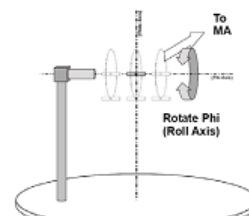
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<2	>45%	50 Ohm	Linear	≥1 DB
5100MHZ--5900 MHZ	<2.5	>45%	50 Ohm	Linear	≥1 DB
Material & Mechanical Characteristics				Environmental	
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
FPC BLACK	113	IPX_4		- 20 °C ~ + 50 ° C	- 30 °C ~ + 80 ° C

Test Equipment & Conditions

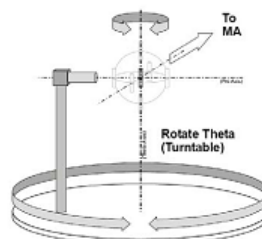
1. Network Analyzers :Agilent 8753SE 5071C
2. Communications Test Set:Agilent E5515C/CMW500



(Testing by 3D anechoic chamber)



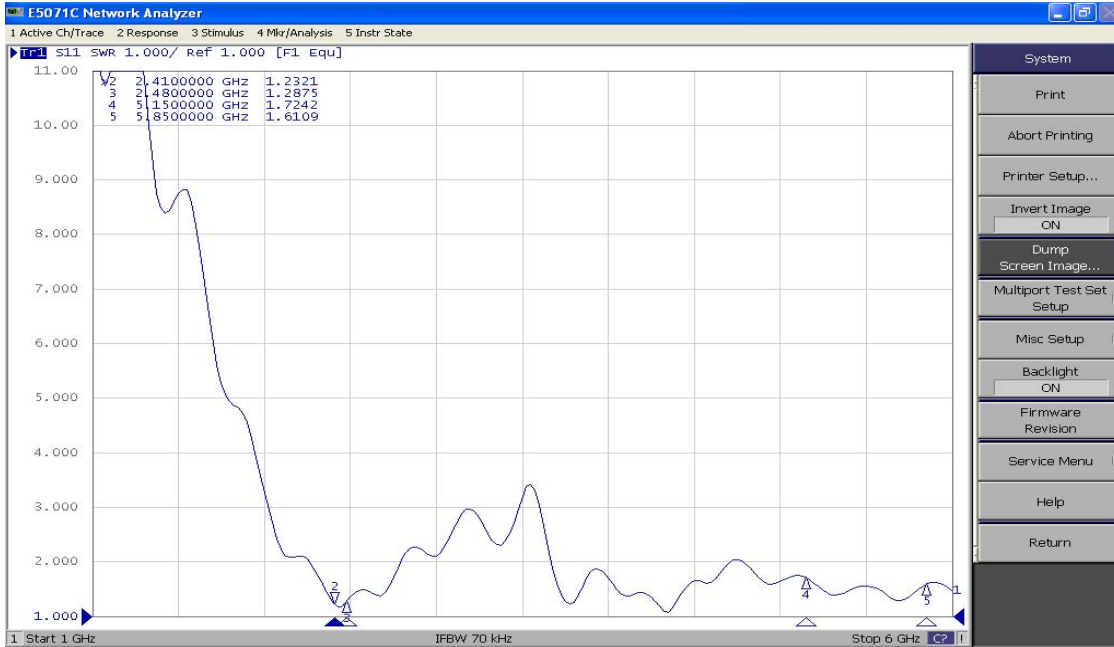
Phi axis test



Theta axis test



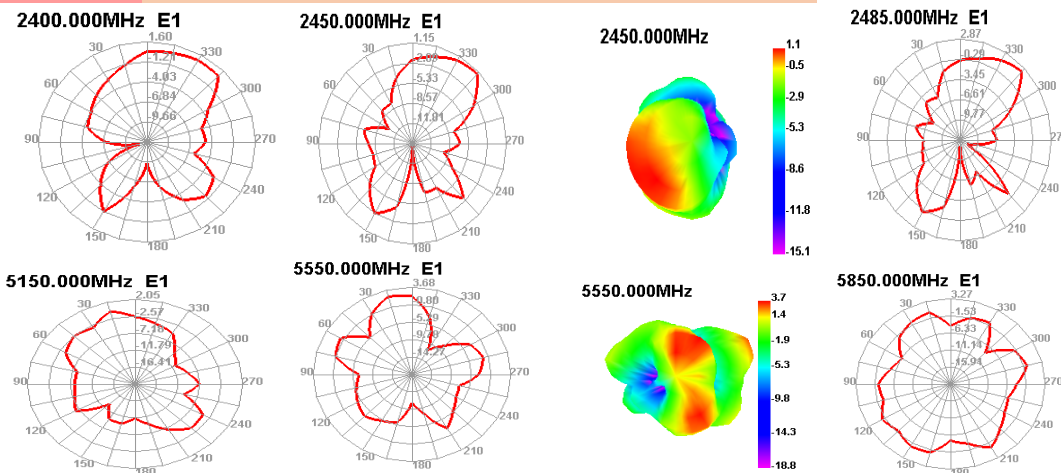
Antenna Impedance: WIFI_R:



Passive Test

Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490
Effi(%)	45.2	47.3	46.8	47	46.9	48.2	48.8	49.2	49.4	49.7
Gain(dBi)	2.1	2.2	2.14	1.93	2.23	1.8	2.1	2.1	2.4	2.5

Freq(MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950
Effi(%)	46.8	46.9	47.2	47.6	46.9	47.8	48.2	48.5	48.9
Gain(dBi)	2.23	2.39	2.32	2.37	2.35	2.48	2.58	2.31	2.55

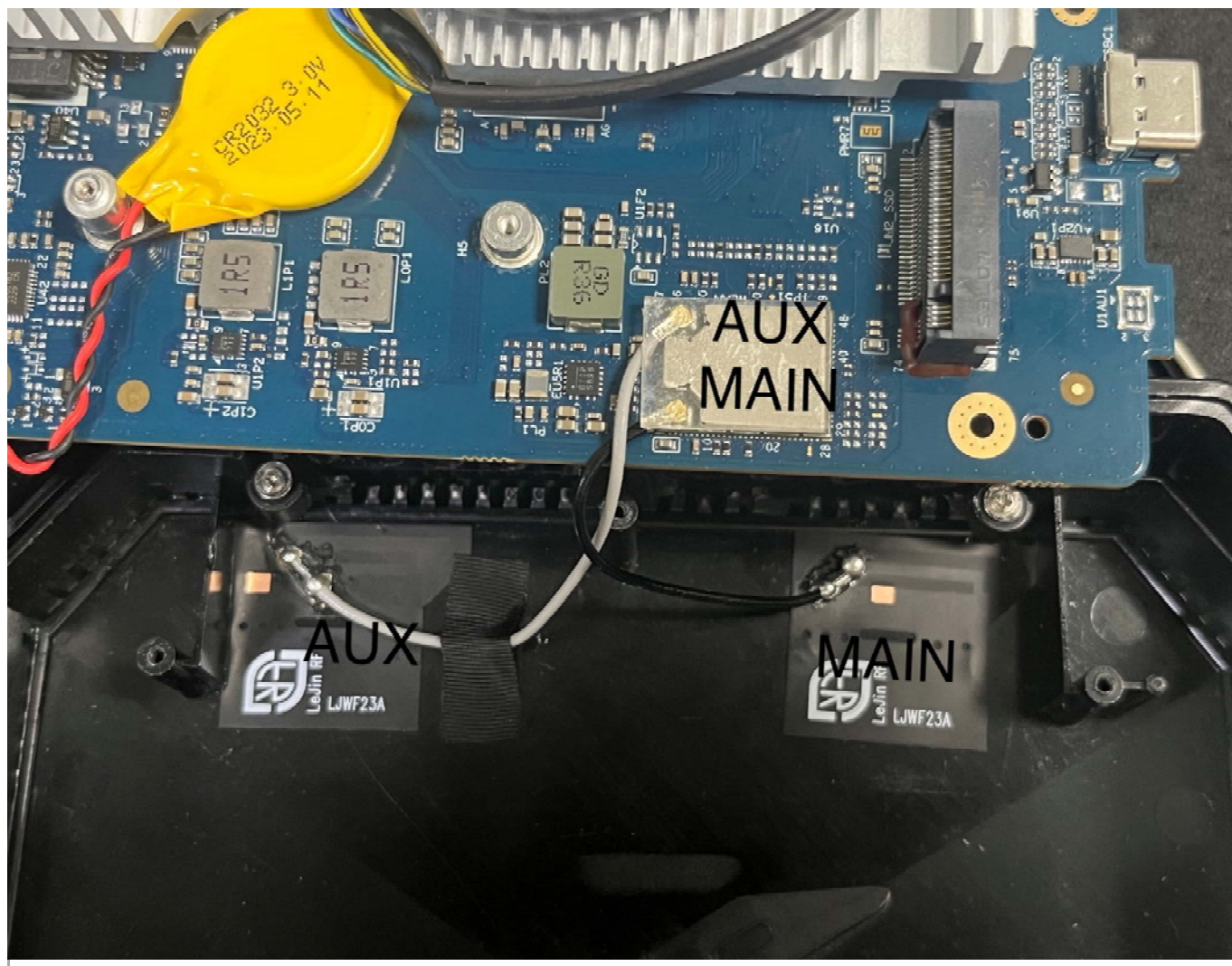


OTD_DATA:(The following OTDs_ DATA is obtained from the antenna test in this specification. Replace the antenna or change the installation mode of the antenna. The following OTD_ DATA will become invalid)

		CH	TIS(dB m)	TRP(dB m)				CH	TIS(dB m)	TRP(dB m)
2.4G WIFI	802.11.B @11Mbit	1 (2412MHz)	-81.73	14.92		5G WIFI	802.11 a 54Mbit	36 (5180MHz)	-76.42	15.04
		6 (2437MHz)	-82.1	15.23				60 (5300MHz)	-74.53	15.22
		11 (2462MHz)	-82.08	15.47				161 (5805MHz)	-72.62	15.67

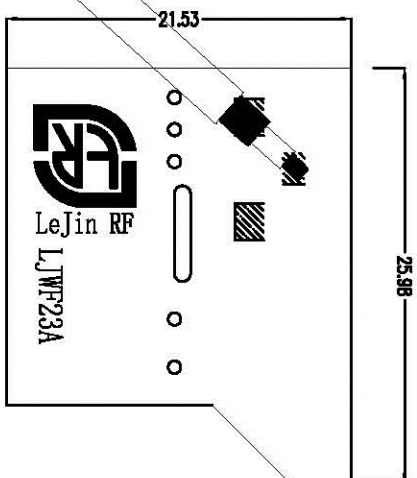
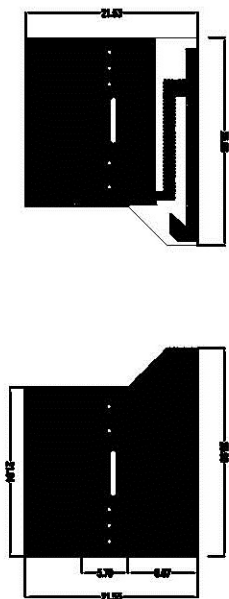
Antenna installation method:

Note: When installing the antenna, it must be required that the antenna and the shell be pasted flatly, and there should be no warping, skew and other bad process phenomena, otherwise the RF data of the product will be adversely affected.

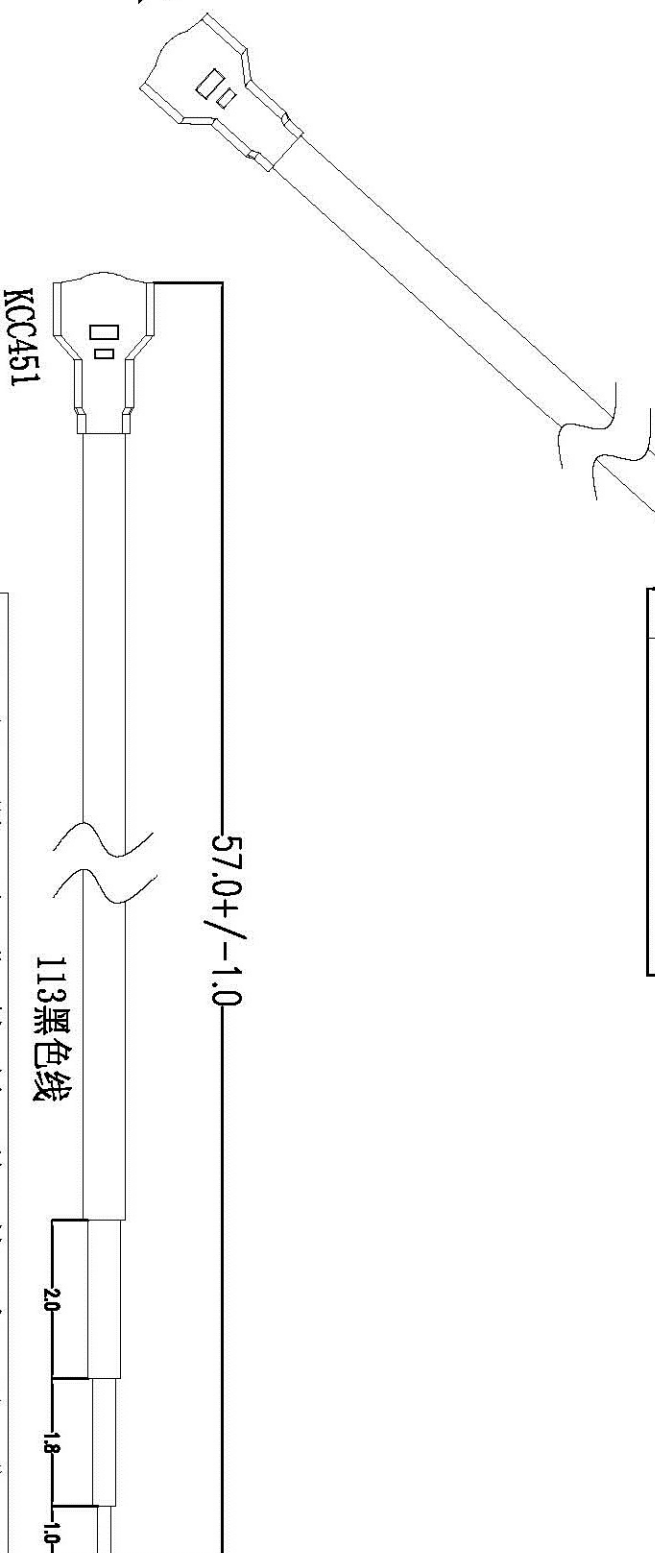




Antenna Engineering Drawing :



口朝上



深圳乐进射频科技有限公司 SHEN ZHEN LETIN RADIO FREQUENCY CO., LTD												
Third Angle Project MP1A Date 2023/7/4 Part Name WIFI_MAIN Part No. Material Treatment UF02-230704001M-R0A Designed by Checked by RF Approved by Unit mm Scale 1:1 Rev A												
D				0~10 ±0.05		○		0.02				
				10~18 ±0.10		◎		Ø0.03				
				18~30 ±0.12		└		0.02				
A		New drawing		30~40 ±0.15		∇		0.04				
Rev		Description		Date		Remark		Location				
1		2		3		4		5		6		
1		2		3		4		5		6		