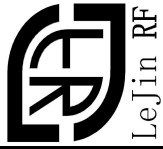




Customer Name: ZW
Product Name: WIFI 2G and BT ANT
Product Model: NG14S
Part Number: LJF02-221025002-R0A
Write By : Star_Li
Issued Date: 2022/10/25

CUSTOMER			
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY	DATE
LEJIN			
R&D DEPT	ENGINEER R&D DEPT	APPROVAL	DATE

ECN/ECR			



Index

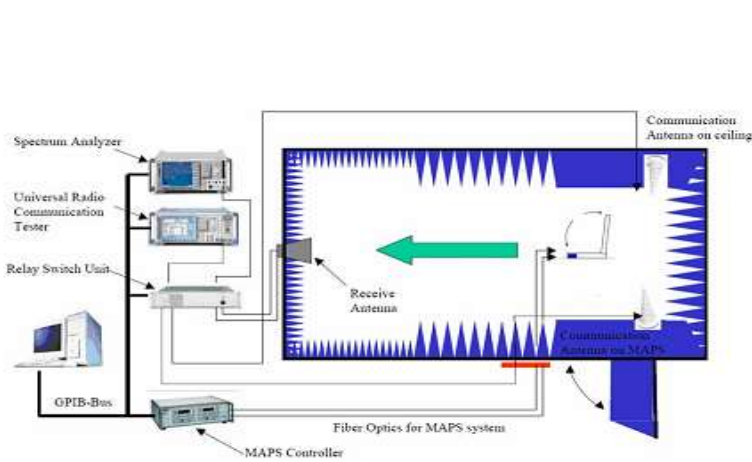
- 1、 Cover
- 2、 Index
- 3、 Product Specification
- 4、 Test Equipment & Conditions
- 5、 Test Repor
- 6、 Antenna Picture
- 7、 Product Drawing



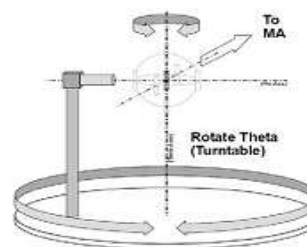
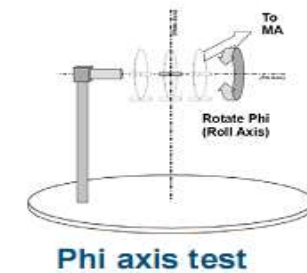
Electrical Characteristics					
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<2	>30%	50 Ohm	Linear	≥1 DB
5100MHZ--5900 MHZ	NA	NA			
Material & Mechanical Characteristics				Environmental	
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
FPC black/YELLOW	1.13	KCC1B1		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

Test Equipment & Conditions

1. Network Analyzers :Agilent 8753SE 5071C
2. Communications Test Set:Agilent E5515C/CMW500
3. 3D Chamber Test System(ETS743)



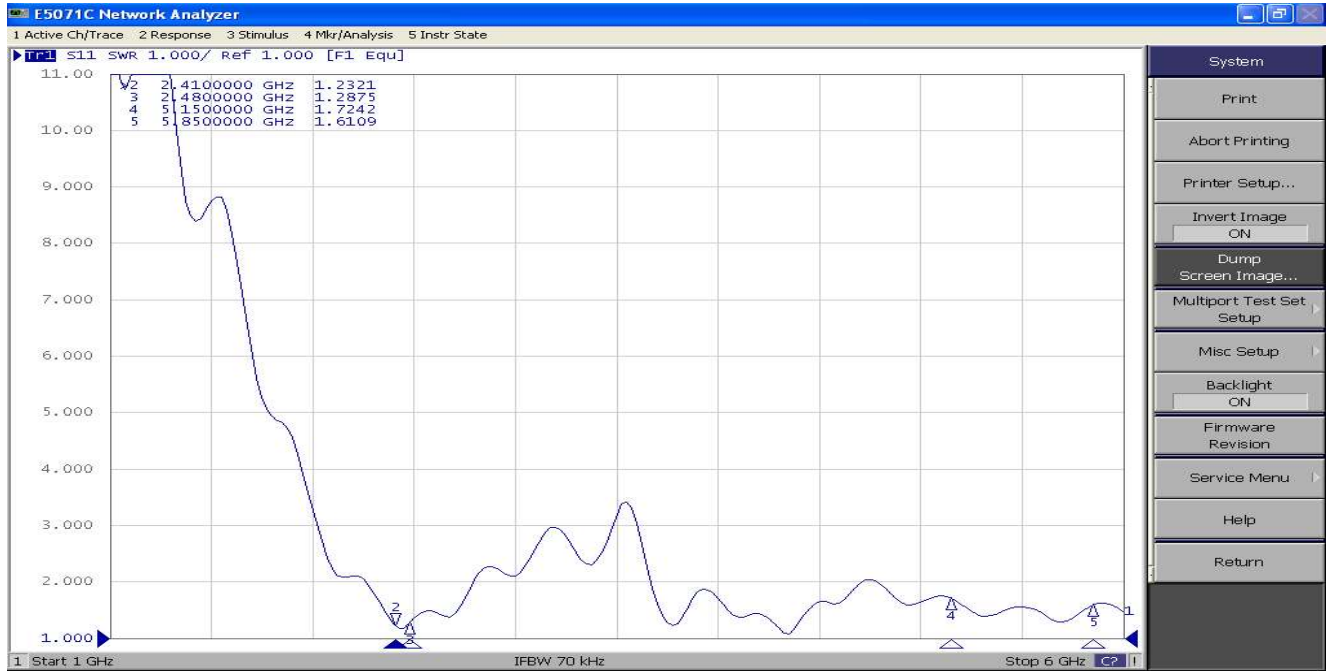
(Testing by 3D anechoic chamber)



Theta axis test

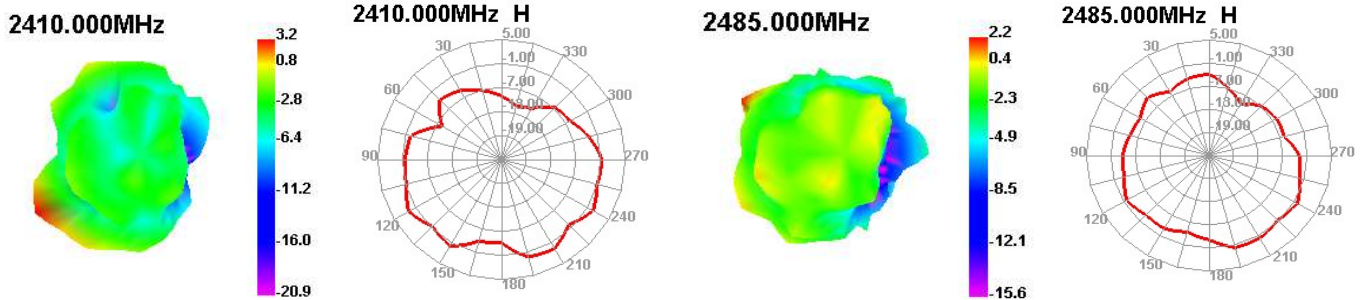


Antenna Impedance: WIFI:



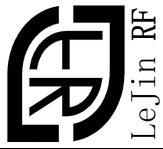
Passive Test

Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490
Effi(%)	41.57	43.7	40.95	43.55	44.78	48.51	42.18	44.22	43.78	46.74
Gain(dBi)	2.77	2.94	2.15	2.87	2.95	3.12	2.18	2.33	2.12	2.17



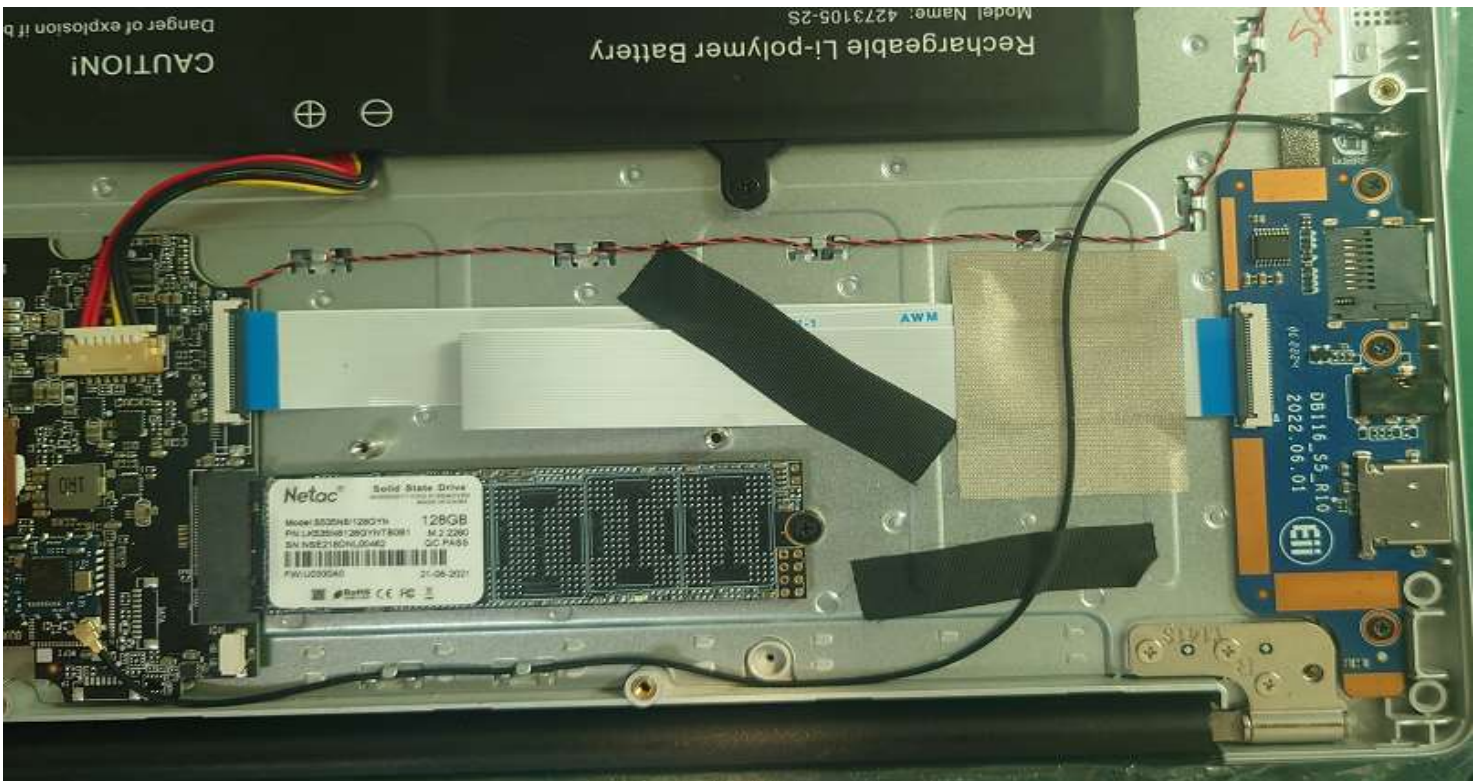
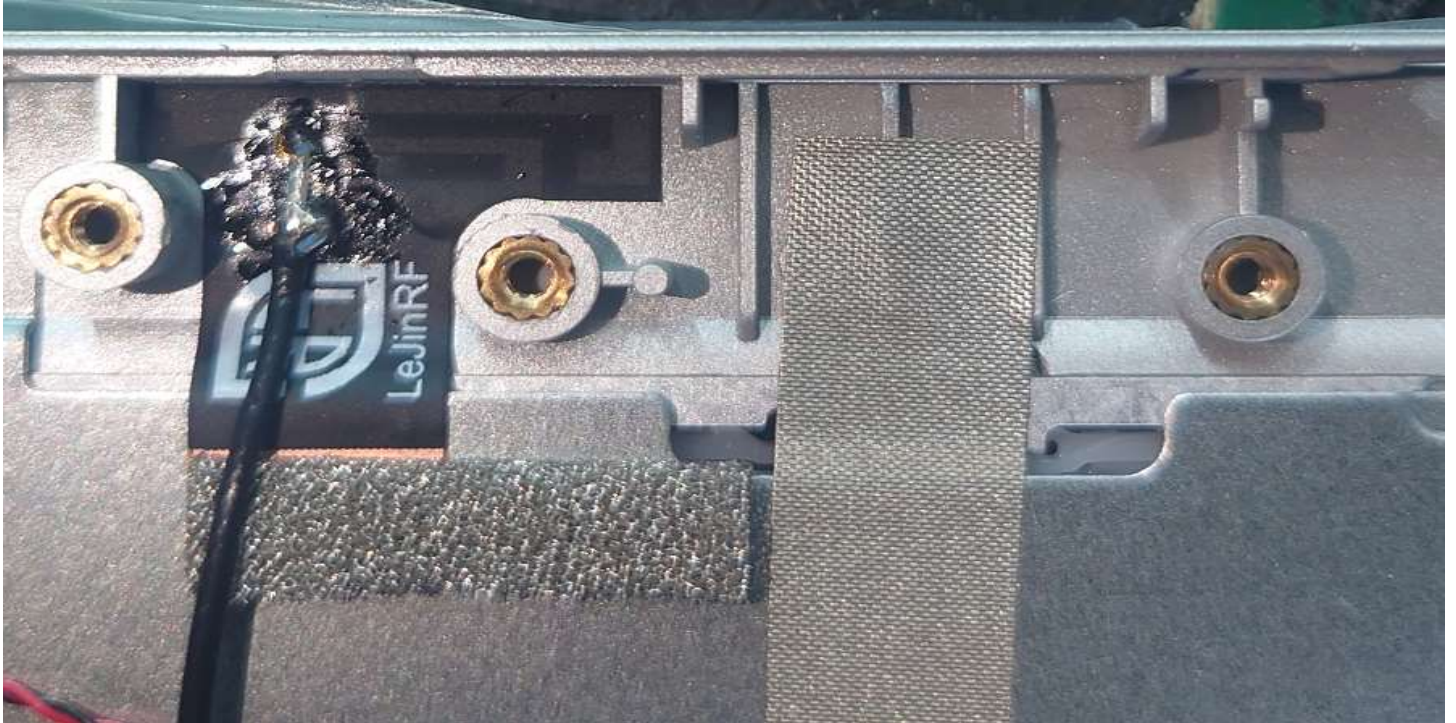
OTD_DATA:(The following OTDs_ DATA is obtained from the antenna test in this specification. Replace the antenna or change the installation mode of the antenna. The following OTD_ DATA will become invalid)

2.4G WIFI	802.11.B @11Mbit	CH	TRP(d Bm)	TIS(d Bm)
		1 (2412MHz)	15.45	-77.75
		6 (2437MHz)	14.88	-78.05
		13 (2472MHz)	15.69	-79.07



Shenzhen Lejin radio frequency technology Co., LTD

Antenna installation method:

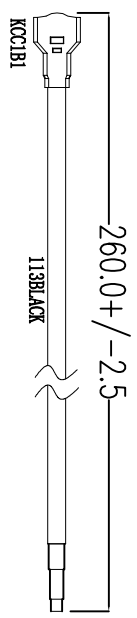
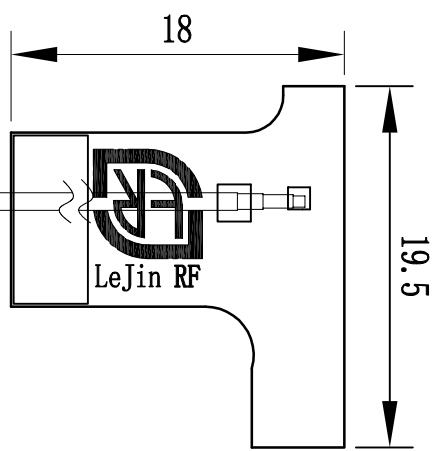


Antenna drawing:

1 2 3 4 5 6 7 8

A

Rohs
Compliant
G P



Rev	1	2	3	4
Description				
Date				
Remark				
A	New drawing			

		SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD	
Third Angle	0.02	Project	ZW NG14S
0~10	±0.05	Part Name	WIFI ANT
10~18	±0.10	Part No.	
18~30	±0.12	Material	LJF01-221023001-R0A
30~40	±0.15	Treatment	LJF01-221025002-R0A
40~	±0.20	Angle	±0.5°
Location		Date	2022-10-23
		Designed by	
		Checked by	MD
		Approved by	RF
Unit	mm	Scale	FIT
Rev		Rev	A