



SPECIFICATIONS FOR APPROVAL

Customer Name: 森沛

Product Name: WIFI 2G+5G

Product Model: 101

Part Number: LJF01-20112101-R1A

Write By : 付强

Issued Date: 2020/11/21

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			



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Electrical Characteristics

Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<2	>35%	50 Ohm	Linear	≥ 1 DB
5100MHZ--5900 MHZ	<2.5	>40%	50 Ohm	Linear	≥ -6 DB

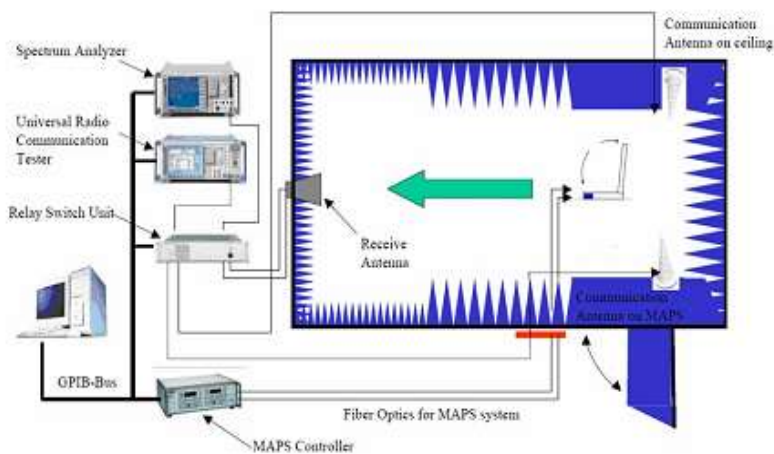
Material & Mechanical Characteristics

Environmental

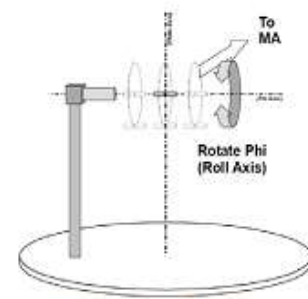
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
FPC black/YELLOW	113	IPX_1		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

Test Equipment & Conditions

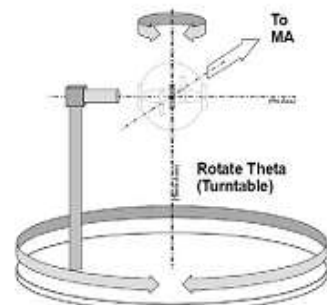
1. Network Analyzers :Agilent 8753SE 5071C
2. Communications Test Set:Agilent E5515C/CMW500
3. 3D Chamber Test System(ETS743)



(Testing by 3D anechoic chamber)

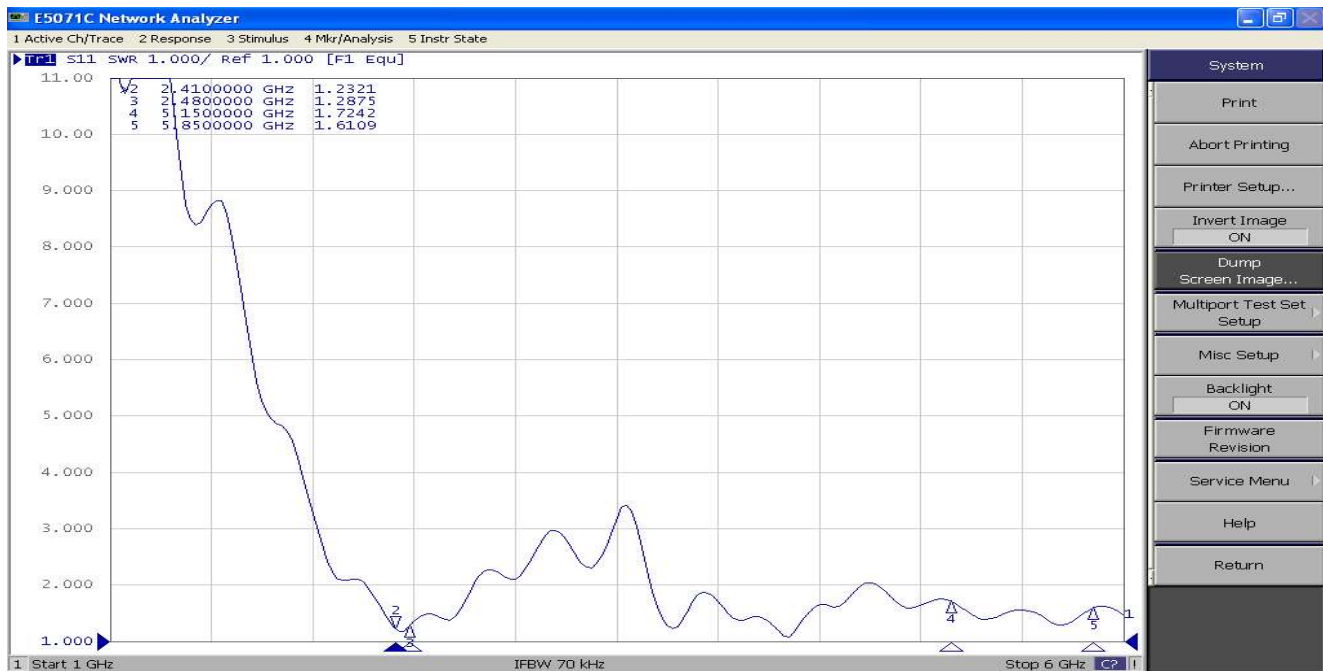


Phi axis test



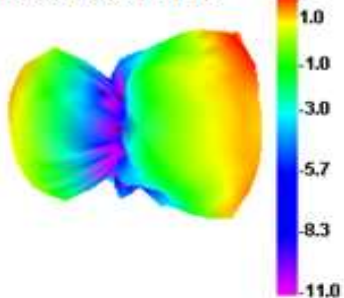
Theta axis test

Antenna Impedance: WIFI ANT A:

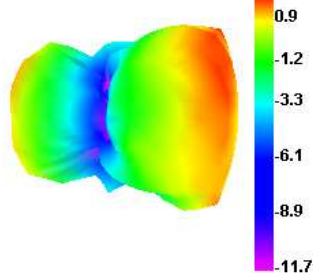


2.4G (Wifi and BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500	ANT A
	Effi (%)	40.38	41.47	39.57	39.77	42.75	41.85	44.33	44.37	40.56	38.75	
	Gain (dBi)	1.94	2.05	1.87	1.98	2.27	2.15	2.32	2.07	1.97	1.74	
5G WIFI	Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6000	
	Effi (%)	47.31	46.21	43.45	47.55	45.41	46.32	42.18	40.78	40.56	42.21	
	Gain (dBi)	0.57	0.27	-0.78	-0.44	-0.75	-1.07	-2.17	-5.57	-5.67	-3.37	

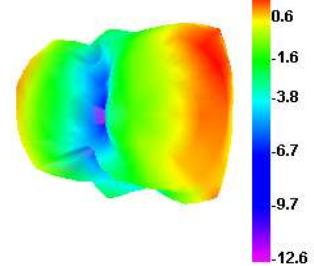
2400.000MHz



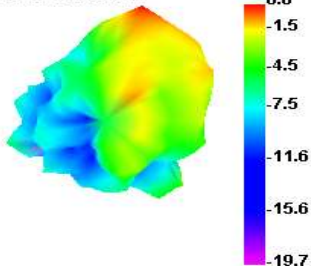
2450.000MHz



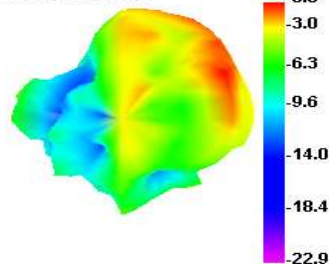
2480.000MHz



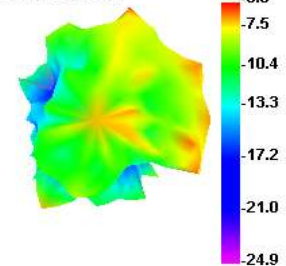
5150.000MHz



5350.000MHz



5850.000MHz



OTD_DATA:(以下OTD_DATA是在本规格书中的天线所测试得来,更换天线或更改天线的安装方式,以下OTD_DATA将会失效)

2.4G 802.11.B @11Mbit		
Frequency	TRP (dBm)	TIS (dBm)
1 (2412MHz)	13.58	-80.25
6 (2437MHz)	13.85	-80.15
13 (2472MHz)	14.07	-79.85
2.4G 802.11.G @36Mbit		
Frequency	TRP (dBm)	TIS (dBm)
1 (2412MHz)	14.28	-82.25
6 (2437MHz)	15.35	-82.37
13 (2472MHz)	14.78	-83.4

2.4G 802.11.A(ODF) @54Mbit		
Frequency	TRP (dBm)	TIS (dBm)
1 (2412MHz)	13.05	-70.08
6 (2437MHz)	13.08	-69.27
13 (2472MHz)	13.28	-68.13
5G 802.11 N @MCS4		
Frequency	TRP (dBm)	TIS (dBm)
36 (5180MHz)	14.53	-80.65
60 (5300MHz)	14.28	-81.98
161 (5805MHz)	14.05	-83.2



天线布置方式参考图片：



