



SPECIFICATIONS FOR APPROVAL

Customer Name: 世野

Product Name: WIFI (2G+5G+WIFI6)_M_ANT

Product Model: vim4

Part Number: LJF02-211206001B-R0A

Write By : 李明进

Issued Date: 2021/12/2

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				



目 录 Index

- 1、封面 (Cover)
- 2、目录 (Index)
- 3、规格 (Product Specification)
- 4、测试设备 (Test Equipment & Conditions)
- 5、性能测试报告 (Test Report)
- 6、天线图片 (Antenna Picture)
- 7、射频线规格 (Transmission line Specification)
- 8、工程图纸 (Product Drawing)

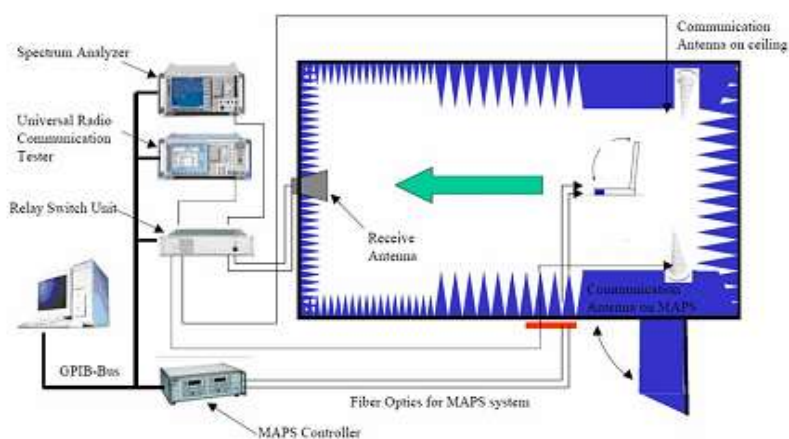
Electrical Characteristics

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	≥1 DB

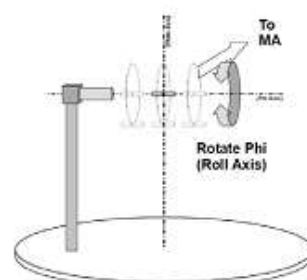
Material & Mechanical Characteristics				Environmental	
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
FR4-0.6S双面雅黑	81	4		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

Test Equipment & Conditions

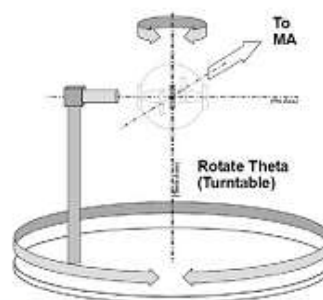
1. **Network Analyzers :Agilent 8753SE 5071C**
2. **Communications Test Set:Agilent E5515C/CMW500**
3. **3D Chamber Test System(ETS743)**



(Testing by 3D anechoic chamber)

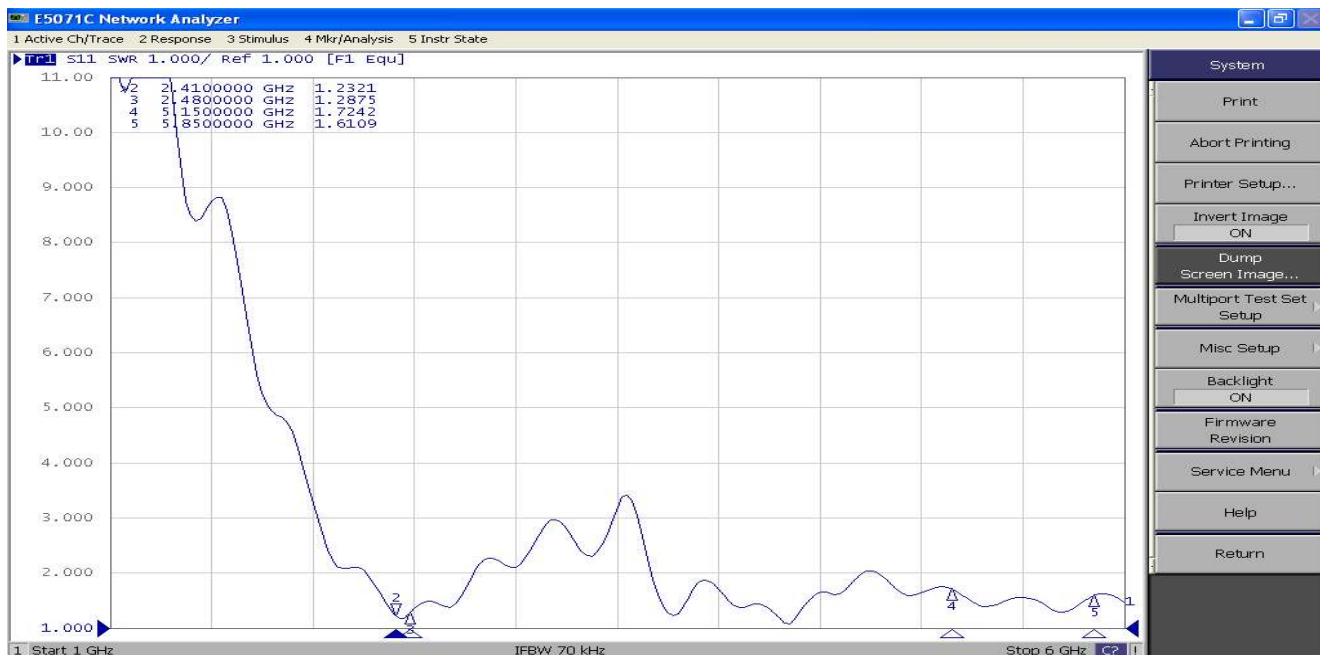


Phi axis test



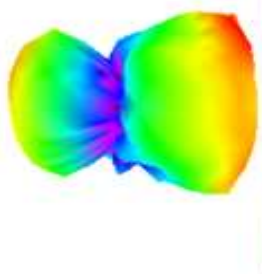
Theta axis test

Antenna Impedance: WIFI ANT M:

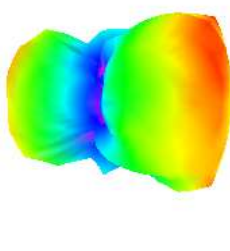


2.4G (Wifi and BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500	ANT
	Effi (%)	51.33	50.37	58.88	52.35	57.81	52.57	55.78	52.3	53.56	55.62	
	Gain (dBi)	2.12	2.34	2.46	2.88	2.99	1.98	2.45	2.27	2.25	2.12	
5G WIFI	Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6000	
	Effi (%)	40.35	43.75	49.64	47.45	43.21	43.57	40.35	40.24	41.77	40.25	
	Gain (dBi)	3.57	3.88	3.02	3.15	4.08	3.15	3.88	3.27	3.15	4.02	

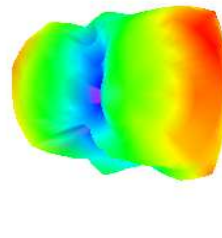
2400.000MHz



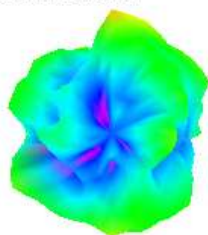
2450.000MHz



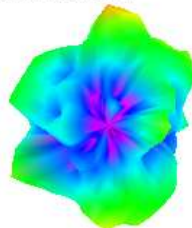
2480.000MHz



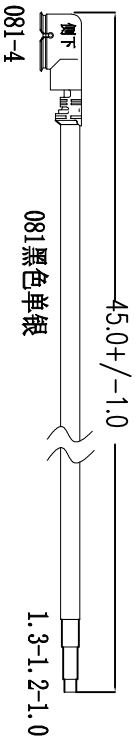
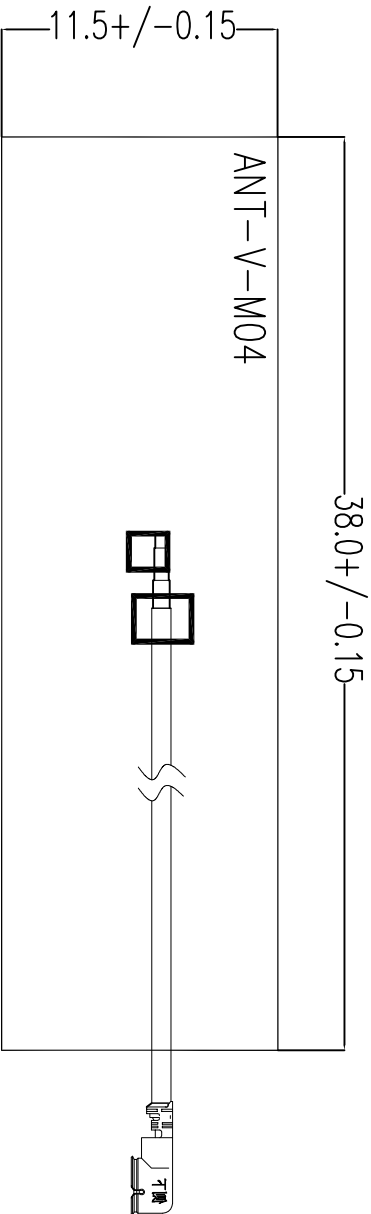
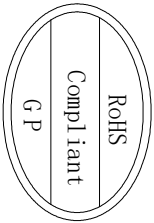
5150.000MHz



5200.000MHz



天线工程图



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

SY-VIM4
WIFI_M ANT
2021-12-06

Project
Part Name
Date
Designed by

0~10 ±0.05 Third Angle 0.02
10~18 ±0.10 0.03
18~30 ±0.12 0.02
30~40 ±0.15 0.04
40~ ±0.20 Angle ±0.5°

Part No.
Material
Checked by
MD

Treatment
LJF02-211206001B-R0A
Approved by
RF

Location
Unit
mm
Scale
FIT
Rev
A