Jimi loT

Antenna SPEC

Supplier Name	•	Sunnyway Technology(China).Co.Ltd					
Material Name	•	WIFI/BT Antenna					
Specification	s	21.9* 21.9mm Black FPC(LL701/ Far away) Screen printing: SY_LL701_WIFI/BT_V1. 0					
Project Model		LL701 P			igment	Black	
Material code/material number	-	KR3317L70160100					
Environmental requirements		■RoHS compliant □no-RoHS □Confirmed to REACH □no-REACH					
Туре		□New product recognition□Material change will be admitted□Specification changes will be admitted					
State	□Structure	□Structure sample qualified □Appearance sample qualified □Color samples qualified					
Description of replacement material							
Date	Change description				Signature		
Fill in by supplier							
Producer/Dat		Reviewer/Dat		Appro	over/Date		
Fill in by the company							
Structural recognition	Project recognition	Procurement recognition	Quality recognition		rdware egnition		



尚远科技(中国)有限公司

Sunnyway Technology (China) Co. Ltd.

Antenna SPEC

Customer name: JimiloT	Entry name: I	.L701	
Working frequency band: 2.4G WIFI/BT			
Motherboard version: LL701 MB V1.0			
Sunnyway Material specification			
Specification type	Sunnyway number	Customer number	
WIFI/BT Antenna	SZ21621IB75-2	KR3317L70160100	

Revision history				
Date of	Change content	Altered	Edition	
preparation/change		person		
2022.02.28	New issue	Yang XIN	Α	
2022.06.07	New positioning column	Yang XIN	В	

Sunnyway Countersign column							
RD	RD ME:		To examine:		QE:		Approval:
	RF:		To exa	mine:			
Customer will sign the column							
Electronic Engineer Project m		anager	er Structural Engineer		Qua	Quality Engineer	

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ITEM

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1. PROJECT PICTURES

project pictures shown below:



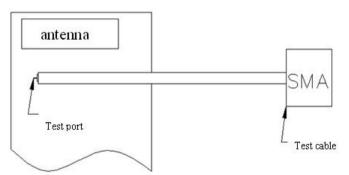
PS:

To ensure that the antenna shipment quality, the final prototype Clients validated the antenna's performance, should be kept in our company for at least a year time, facilitate solving antenna amount during abnormal situation,

2. TEST FIXTURE

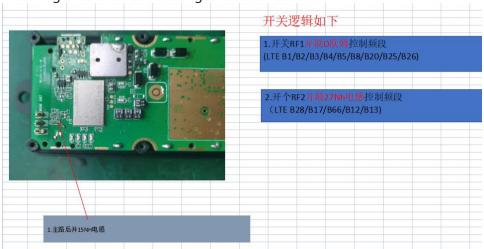
Purpose: To test antenna passive parameters as accurately as possible.

methods: the fixture is to use a 50 ohm coaxial cable, one end is connected to the pad after the antenna 's matching circuit (the front of the antenna switch) , and the other end is connected to the SMA connector.



3. MATCHING CIRCUIT

The matching circuit has been changed as follows:



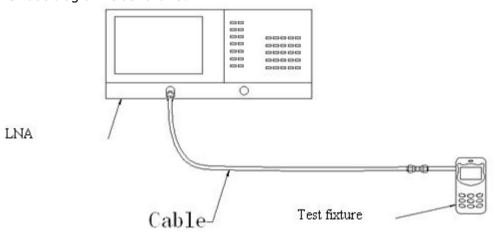
4. S11 test

4.0 S11 test method instructions

Test equipment: LNA (Agilent E5071B)

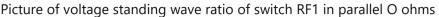
Test method: With a 50 ohm CABLE ,CABLE export from instrument testing port , After the calibration with calibration Key, connected to the SMA connector, Records the return loss and VSWR of the related frequency points.

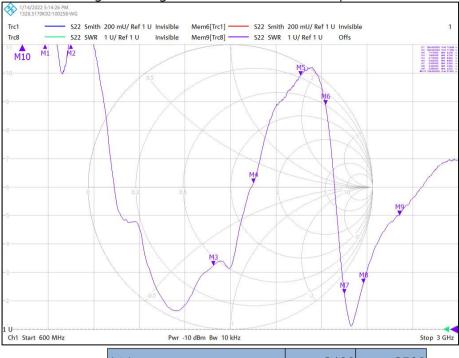
Test schematic diagram is as follows:



Test schematic diagram

4.1 S11 parameter





5 CHAMBER TEST DATA

Test equipment

Test system: chamber

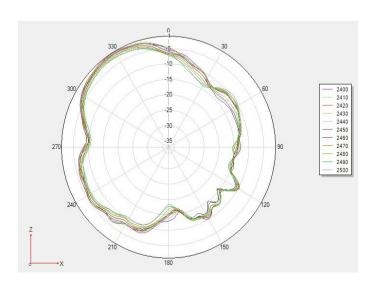
Test environment: the temperature of 22 $^{\circ}$ C + 3 $^{\circ}$ C, humidity of 50% plus or minus 15%

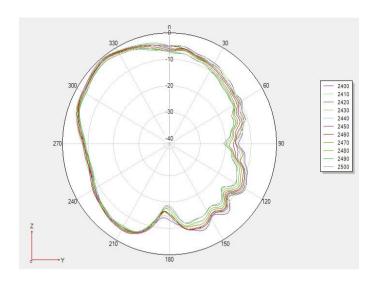
Test equipment: to test passive status, use Agilent 5071C to test active status, use CMW500.

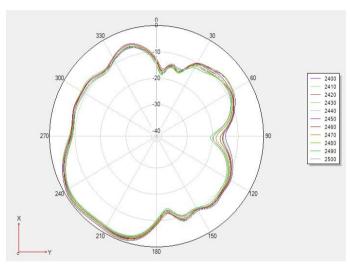
OTA Test data

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	43. 13	1.65
2410	42.65	1.51
2420	43. 12	1.59
2430	47.72	1.93
2440	48.74	1.95
2450	46. 96	1.82
2460	45. 81	1.75
2470	44. 03	1.49
2480	42. 38	1. 34
2490	43. 11	1.56
2500	43. 42	1. 58

Radiation pattern







6. Antenna environment processing and mounting position

Environmental treatment is not added, according to the customer's original environmental treatment.

7. Mass production antenna Spec

During Mass production, to test VSWR as production test standard

According to the difference of the project itself, the following specification:

Frequency	SPEC, Mass Production
2400-2500MHz	VSWR (MP performance) <vswr(verify performance)+0.5<="" th=""></vswr(verify>

8. Structural drawings

