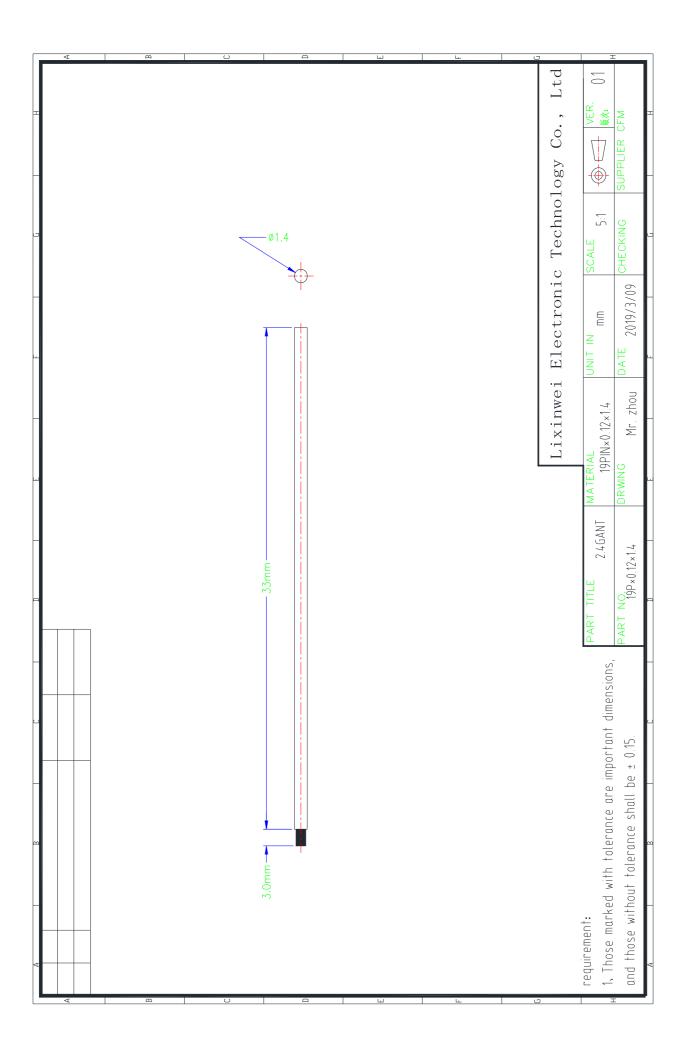
Dongguan Lixinwei Electronics Co., Ltd

Antenna test report

Customer Name:	Meijiaxin Innovative Technology Co.,Ltd			
Product Name: _	2.4G ant	tenna length 36		
Product Name:				
Part NO.:	C14-33-3			
Write By:	Zhou Min			
Issued Date:	2022-6-25			
	Custo	omer:		
R&D Dept	Business Dept	Approved By		
	Supp	lier		
R&D Dept	Engineer Dept	Approval		
Harry	Ymney	Jimmy Zhong		



Test Equipment & Conditions

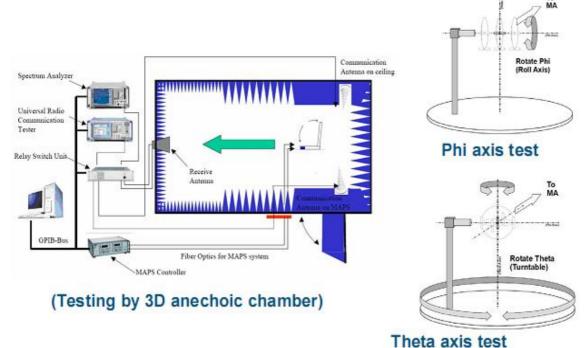
1. Network Analyzers:

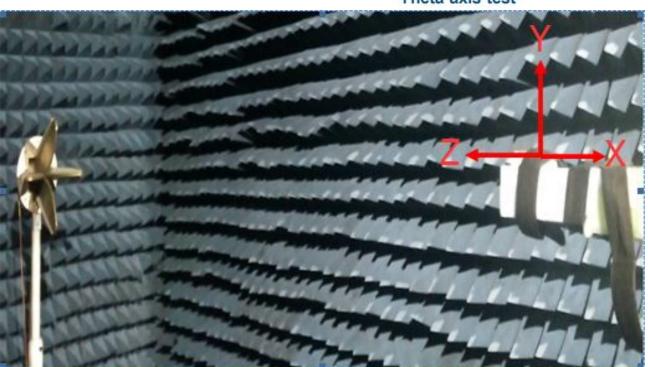
Agilent 8753D 5071B

2. Communications Test Set:

Agilent E5515C

3. 3D Chamber Test System

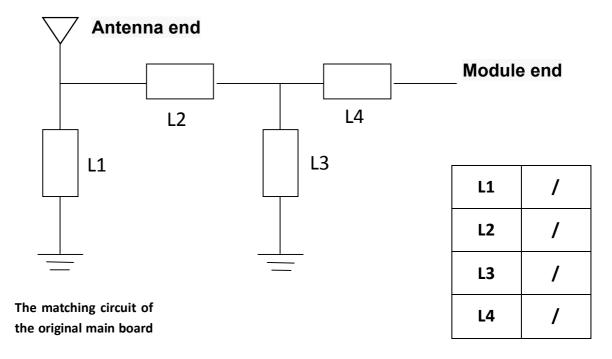




Specification Overview

electrical characteristics				
frequency	2400MHz ~2500MHz			
Return loss	<-10dB			
productiveness	>27%			
gain	0.59 dbi			
impedance	50 ohm			
Polarization mode	linear polarization			
Material and mechanical properties				
material	/			
Wire type	Wire diameter 1.4 mm			
Terminal type	/			
Drawing size	See drawing for details			
silk-screen printing	/			
Environmental characteristics				
Storage temperature		- 30 °C ~ + 85 °C		
FPCwelding temperature		/		
RF wire welding temperature		320±5℃ 2-3 s		

Matching circuit



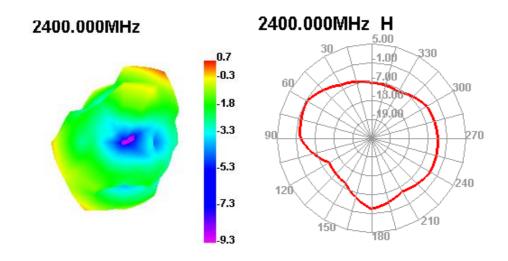
Return Loss

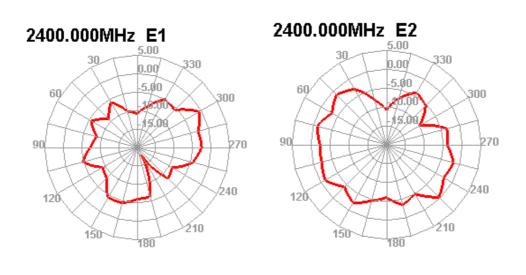


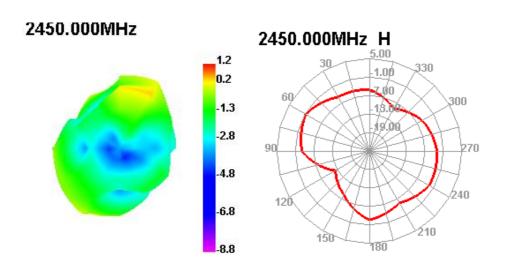
Effiency & Gain

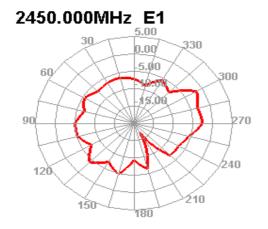
Freq (MHz)	Effi (%)	Gain (dBi)
2400	23. 66	0. 47
2410	23. 19	0.38
2420	23. 03	0.49
2430	22. 41	0.42
2440	21. 67	0. 45
2450	20. 24	0. 52
2460	20. 61	0.51
2470	21. 41	0. 59
2480	23. 89	0. 56
2490	26. 46	0. 53
2500	25. 73	0.46

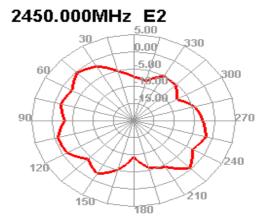
Radiation Pattern

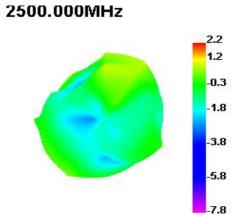


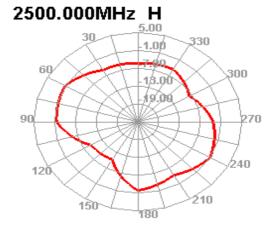


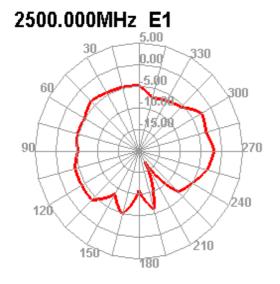


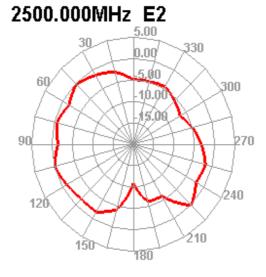












Reliability test

	Test items	Test conditions	equipment	standard	result
1	Low temperature test	Temperature: - 30 $^{\circ}$ C, humidity: 65%, time: 48 hours Test conditions: Place the antenna in a high and low temperature test box, keep the temperature at 25 $^{\circ}$ C and humidity at 65% for 1 hour, then reduce the temperature to - 30 $^{\circ}$ C within 1 hour, keep it for 44 hours, and then raise the temperature to 25 $^{\circ}$ C, keep it for 2 hours	High and low temperature tester	Material deformation is not allowed Good electronic performance	pass
2	hot test	Temperature: 85 $^{\circ}$ C, humidity: 85%, time: 48 hours Test conditions: Place the antenna in a high and low temperature test box, keep the temperature at 25 $^{\circ}$ C and the humidity at 65% for 1 hour, and then raise the temperature to 80 $^{\circ}$ C and the humidity at 85% for 44 hours within 1 hour, and then lower the temperature to 25 $^{\circ}$ C for 2 hours.	High and low temperature tester	Material deformation is not allowed Good electronic performance	pass
3	Salt spray test	Salt spray test: Place the antenna in the salt spray tester Set up the test environment: Temperature $35 \pm 2 \degree C$ Humidity 85% Salt spray: $5 \pm 1\%$ PH value $6.5^{\sim}7.2$ Time: 24 hours	Salt spray tester	No color change No rust	pass