APPROVAL SHEET

CUSTOMER NAME					
Customer name	ShenzhenJichenTechnolog	gyCo.,Ltd.			
CUSTOMER P/N					
Customer Part Number					
PART NAME	2.4G black FPC built-in antenna, 1.13 black line L=117MM				
P/N	V IO CNI447	D04			
Part Number	YJC-6N117-B01				
APPROVAL REV.	A0				
DELIVERY DATE					
Sample delivery date	January 10, 2024				
PREPARED BY	Yin Feijie				
CHECKED BY	Fang Wenfeng				
APPROVED BY	はマルギ Xiao Han				
	Customer Approved				
Prepared By	Checked By	Approved By			
	Review				

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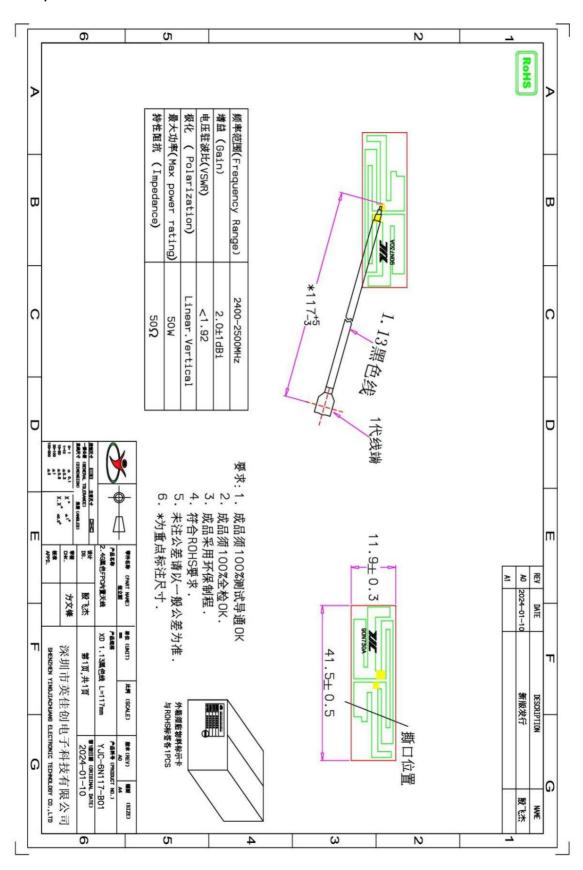


Resume:

Version	Changes and reasons for changes	date	issued
A0	First edition released	January 10, 2024	



Antenna plan:





Antenna technical parameters and environmental testing:

Electrical Specifications						
Electrical performance indicators		Electrical Specifications				
Frequency range 2400-	2500MHz	Frequency Range 2400-2500MHz				
VSWRÿ1.92		VSWR	ÿ1.92			
Input impedance 50 ÿ		Input Impedance	50 ÿ			
direction	Omridirectional	Direction	All			
Gain	2.0±1dBi	Gain	2.0±1dBi			
	Mechanical indicators		ations			
Wire color Black		Wire Color	Black			
Interface type XD		Input connector	XD			
Cable length 117MM		Wire Length	117MM			
Working temperature -2	0ÿ~+70ÿ	Working Temperature	-20ÿ~+70ÿ			
Working humidity 20%~	80%	Working Humidity 20%~80%				

Environmental performance test:

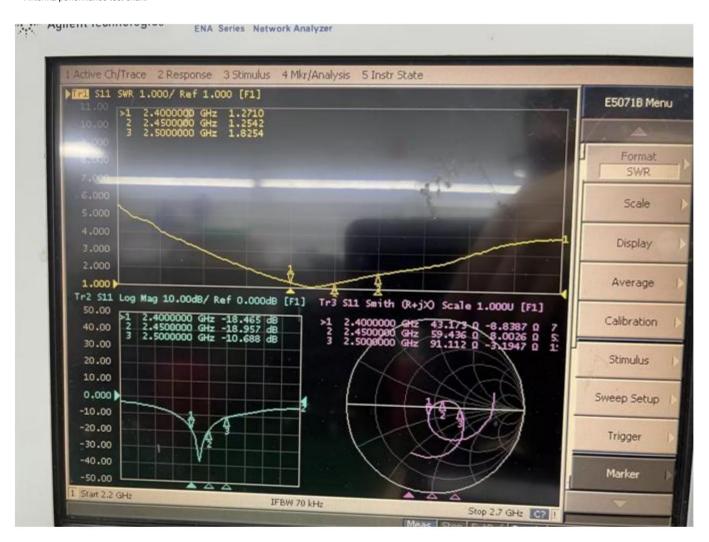
project	Test conditions	Specification
Storage environment	When not specified, the test temperature, humidity and air pressure are as follows: 1. Temperature: -20ÿÿ+70ÿ 2.Relative humidity is 45%-85% 3. Air pressure is 86kpa-106kpa	Electrical and mechanical performance is normal
High and low temperature test	Cycle between 70°C and -20°C for 5 times, then 1-2H, check the appearance quality.	The size should meet the requirements and should meet the full Sufficient mechanical and electrical performance
Constant resistance Wet heat test	Relative humidity 95±3%, test temperature: 40ÿ. After 2 hours of continuous action, The electrical performance of the test sample shall be measured within 5 minutes after it is taken out. 1-2 hours after the parts are removed, check the appearance quality	The size should meet the requirements and should meet the full Sufficient mechanical and electrical performance
Vibration test	Frequency range: 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, sweep cycle times: 30 times	Electrical and mechanical performance is normal
Drop test: 1M high	altitude free fall 3 times in mutually perpendicular axis directions	Electrical and mechanical performance is normal

Antenna physical picture and attachment location map:





Antenna performance test chart:



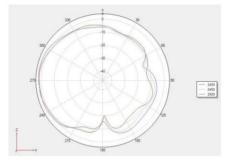


2D, 3D (2.4G) test data:

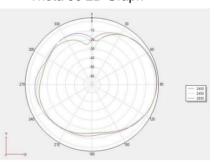
Frequency(MHzÿ	Efficiency (%)	Gain.(dBi)
2400MHz	64.30	2.48
2410MHz	63.11	2.55
2420MHz	61.12	2.33
2430MHz	62.95	2.51
2440MHz	60.79	2.30
2450MHz	65.76	2.17
2460MHz	66.50	2.46
2470MHz	65.01	1.85
2480MHz	63.24	1.97
2490MHz	60.67	1.59
2500MHz	61.80	1.74

Phi 0 2D graph:

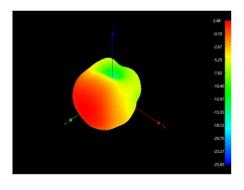
Phi 90 2D Graph

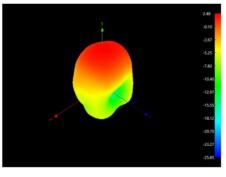


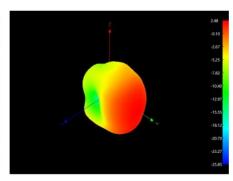
Theta 90 2D Graph



3D 2400

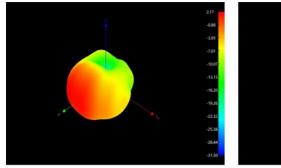


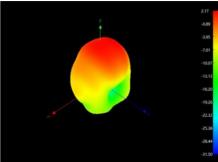


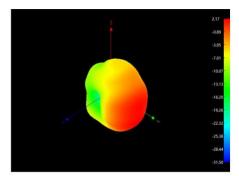




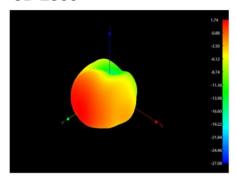
3D 2450

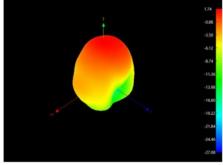


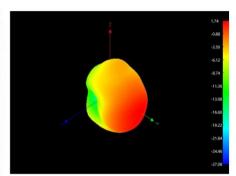




3D 2500







OTA active test data statistics:

Item	Measurement	Band	Channel	Frequency	Total	
1	TRP	WIFI_B (11M)	1	2412	18.79	
2	TIS(EIRP)	WIFI_B (11M)	1	2412	-82.93	
3	TRP	WIFI_G (54M)	1	2412	15.06	
4	TIS(EIRP)	WIFI_G (54M)	1	2412	-68.13	
5	TRP	WIFI_N_ISM (65M)	1	2412	16.48	
6	TIS(EIRP)	WIFI_N_ISM (65M)	1	2412	-64.04	



Shenzhen Yingjia Chuang electronic technology Co., LTD

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ROHS Material Control Report

This is to certify that the raw materials used in the components and auxiliary materials delivered to your company, as well as the additives in the production process, etc. are in compliance with the environmental requirements of the RoHS Restriction of the Use of Hazardous Substances Directive (RoHS Directive)

2011/65/EC)

The composition of the raw materials, packaging materials and additives used in the production process of components and auxiliary materials is reported as follows:

Name of ingredients Composition Materials Component Material /Part Name Composition	·	ICP Report Number	Testing agency	Testing time	Hazardous substance content (ppm)					Qualified? PASS?	
	ICP report # Test O	Test Org.	Test Date	Cd	Pb	Hg	Cr ⁶⁺	PBB PBDE		PASS	
Wire	Teflon coaxial Cables	CANEC2301851703	SGS	23/02/23	ND	ND	ND	ND	ND	ND	PASS
FPC	FPC soft board FTS:	2302160201-01C1	SGS	23/02/20	ND	ND	ND	ND	ND	ND	PASS
Environmentally friend	lly tin wire Environmental	y friendly tin wire SHAEC23006357502	SGS	23/05/23	ND	43	ND	ND	ND	ND	PASS
Terminals	Phosphor bronze (CANEC2301145810	SGS	23/02/08	ND	5	ND	ND	ND	ND	PASS
	Gold plating A2230)400553101001E	СТІ	23/08/12	ND	ND	ND	ND	ND	ND	PASS
	Rubber core A22	30035037101002E	SGS	23/02/06	ND	ND	ND	ND	ND	ND	PASS