



Shenzhen Yingjiachuang Electronic Technology Co., LTD

<http://www.szsyjc.com>

Sample Approval Letter

Supplier: Shenzhen Yingjiachuang Electronic Technology Co., LTD

Product Number (Customer): _____

Product Name and Specification (Customer): _____

Sample submission date: _____

Is it a new supplier: ☐ is ☐ no

Is it new material: ☒ is ☐ no

Whether to replace materials: ☐ is ☐ no

Whether it is environmentally friendly: ☒ is ☐ no

Supplier Audit Column (with official seal required)					
Formulate		Review		Approval	
Yin Feijie		Fang Wenfeng		Xiao Han	
The company confirms the review column					
"Procurement			Research and development		
Review/Date		Approval/Date		Review/Date	
Approval/Date		Approval/Date		Approval/Date	
Quality			Engineering		Business
Review/Date		Approval/Date		Approval/Date	
Approval/Date		Approval/Date		Approval/Date	



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APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N		
PART NAME	2.4G/5G black FPC built-in antenna 0.81 black wire L=50MM	
P/ N	YJC-6N050-B137	
APPROVAL REV.	A0	
DELIVERY DATE	August 7, 2025	
PREPARED BY	Yin Feijie	
CHECKED BY	Fang Wenfeng	
APPROVED BY	Xiao Han	
Customer Approved		
Prepared By	Checked By	Approved By

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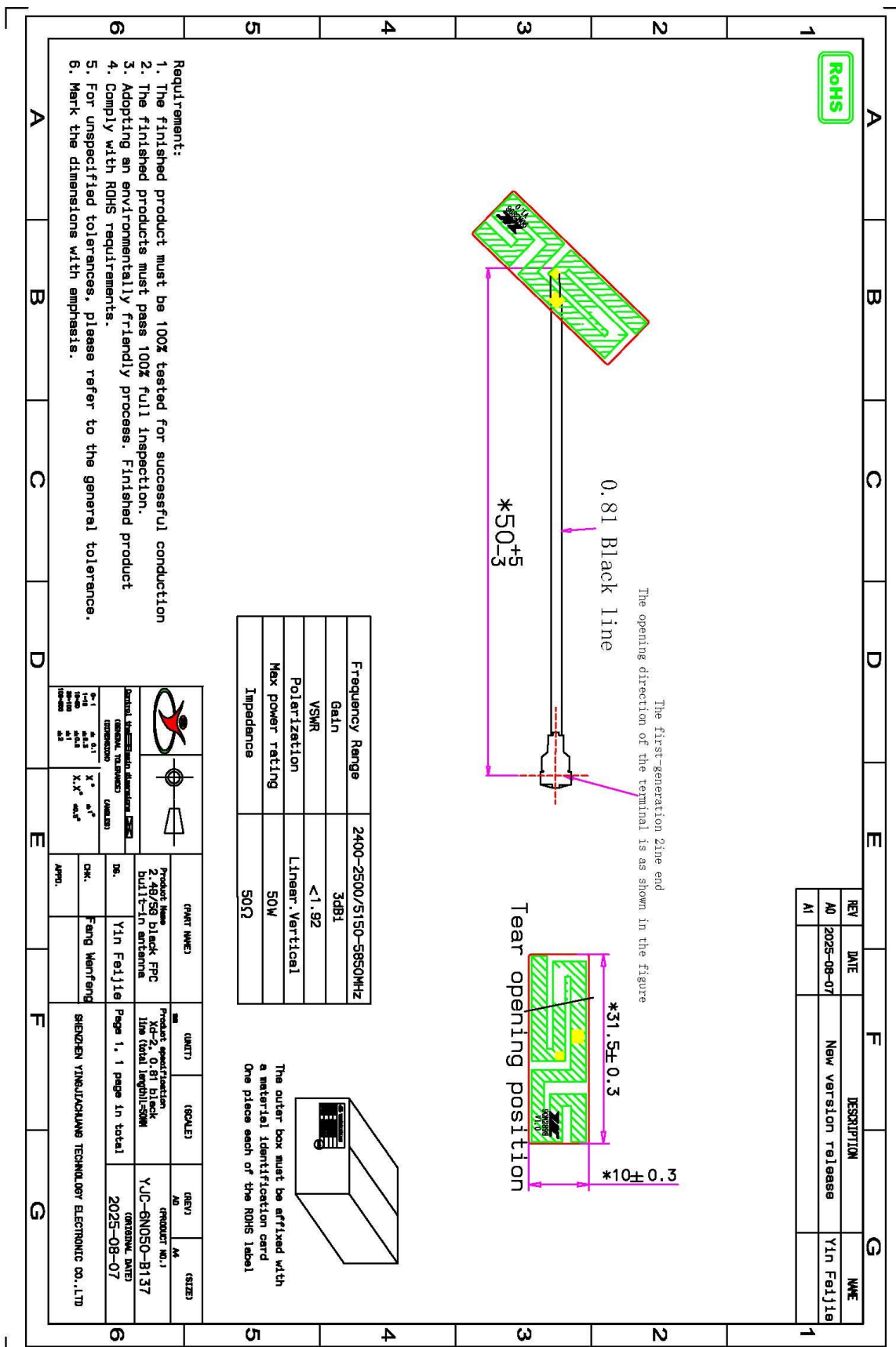


Resume:

Version	Change content and reasons for the change	Date	Issue
A/0	First edition release	August 7, 2025	



Antenna plan view:





Antenna technical parameters and environmental testing:

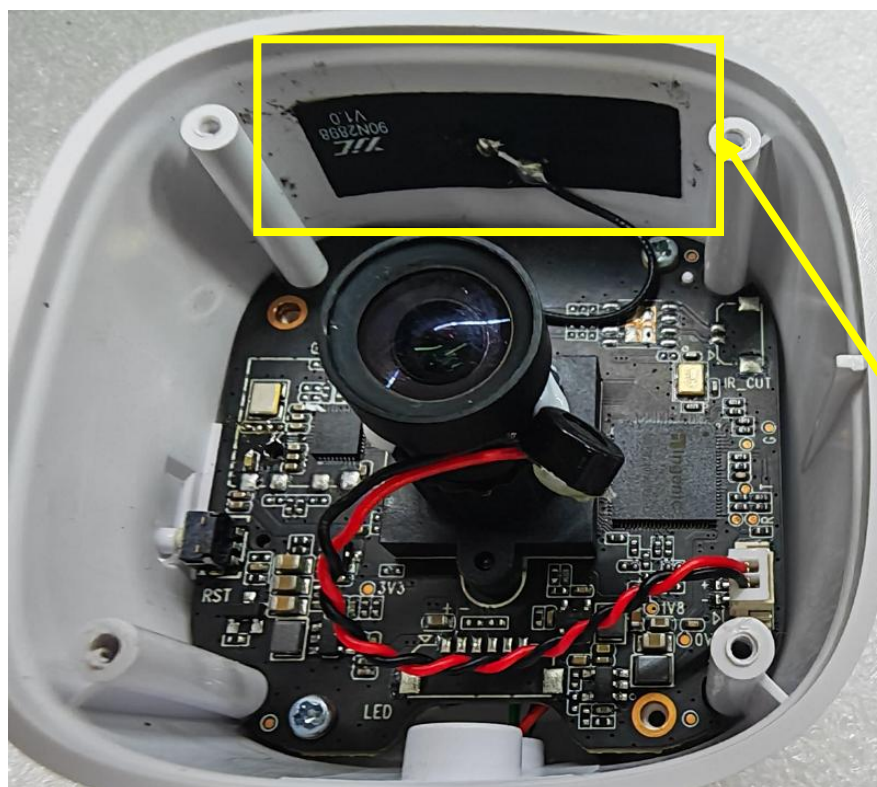
Electrical technical parameter			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500/5150-5850M Hz	Wire Color	Black
VSWR	<1.92	Input connector	XD-2
Input Impedance	50 Ω	Wire Length	50MM
Direction	All	Working Temperature	-20℃~+70℃
Gain	3dBi	Working Humidity	20%~80%

Environmental performance test:

Project	Test condition	Standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows:: 1. Temperature is - 30 ℃ ~ + 80 ℃ 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical performace is normal
High and low temperature test	Between 70 ℃ and -20 ℃ for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and meet the performance of mechnery and electric.
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 ℃. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and meet the performance of mechnery and electric.
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical performace is normal
Fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical performace is normal



Physical picture of the antenna:



Antenna
attachment
position
: W9 3MP

Antenna performance test diagram: W9 3MP

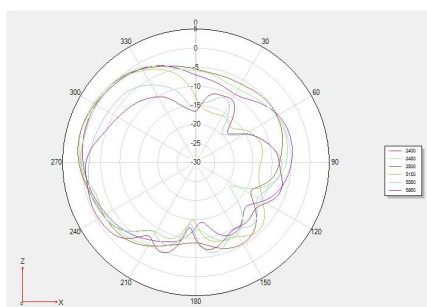




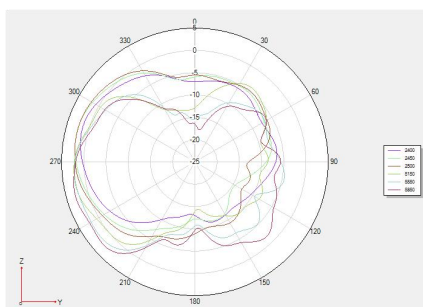
2D and 3D test data (2.4G/5G): W9-3MP

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	51.13	1.52
2410MHz	51.86	1.86
2420MHz	50	2.13
2430MHz	50.12	2.18
2440MHz	53.09	2.4
2450MHz	53.95	2.46
2460MHz	55.46	2.46
2470MHz	56.23	2.39
2480MHz	56.23	2.54
2490MHz	56.89	2.57
2500MHz	57.81	2.73
5150MHz	55.68	2.41
5250MHz	55.86	2.8
5350MHz	58.39	2.96
5450MHz	61.95	3.09
5550MHz	57.82	3.26
5650MHz	59.44	2.92
5750MHz	56.15	3.02
5850MHz	56.94	3.21

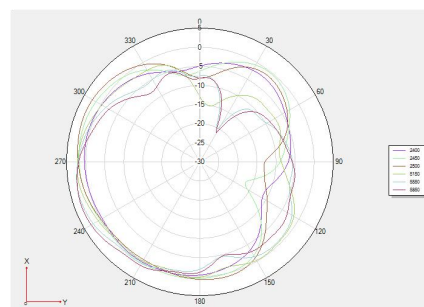
Phi 0 2D



Phi 90 2D

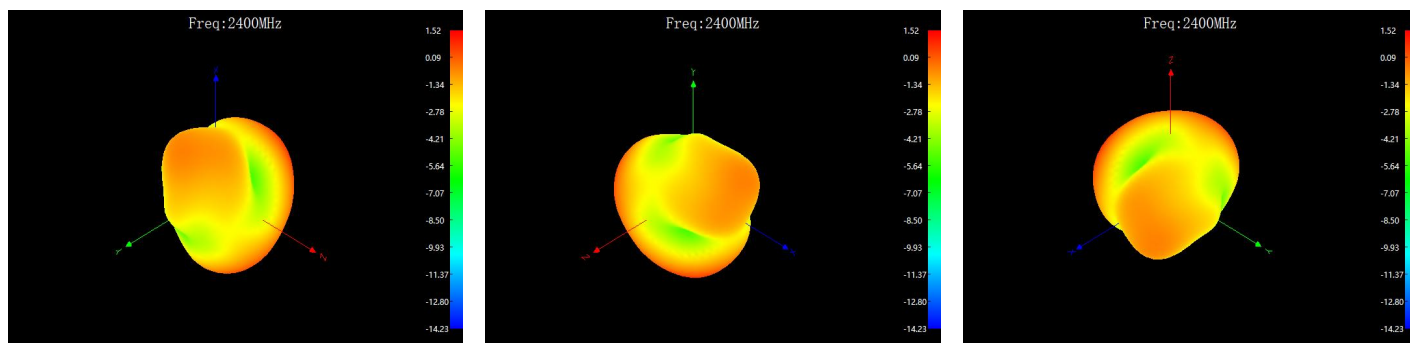


Theta 90 2D

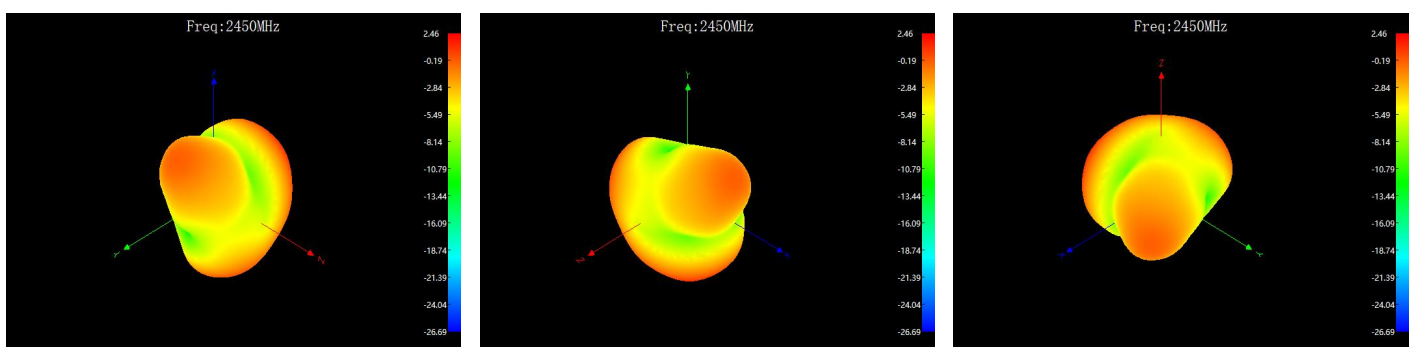




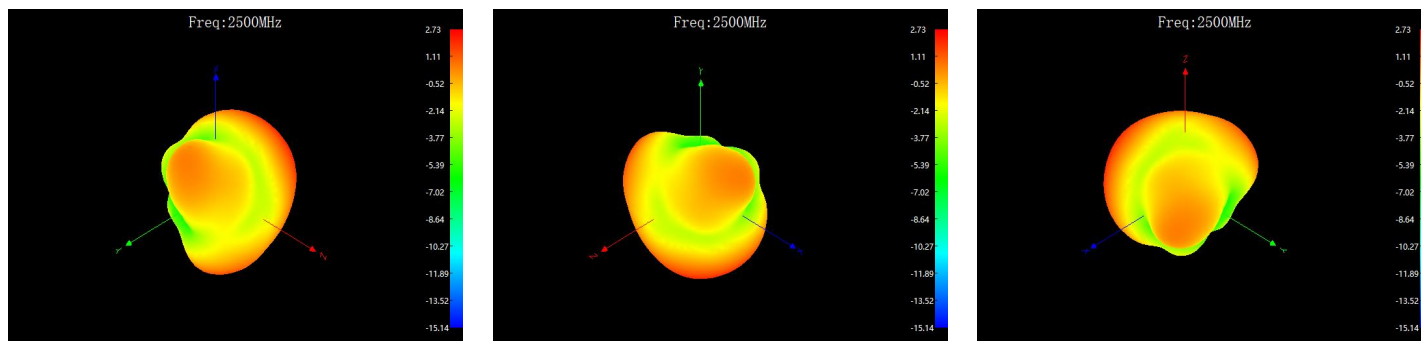
3D 2400:



3D 2450:

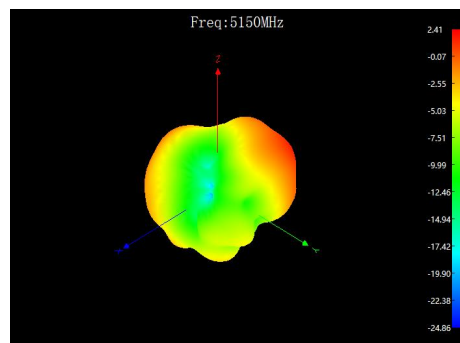
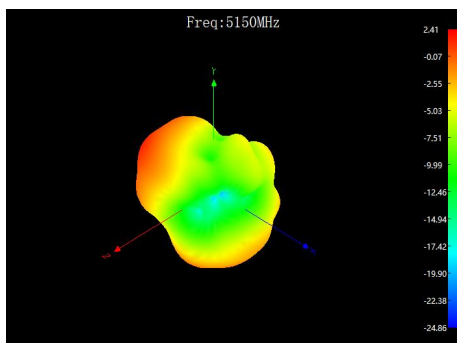
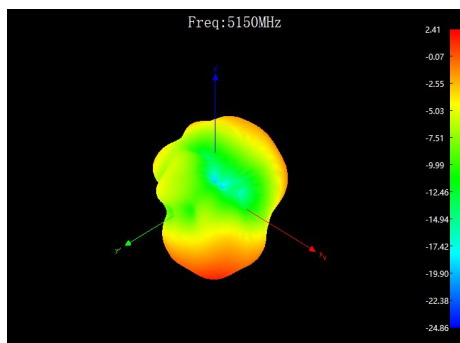


3D 2500:

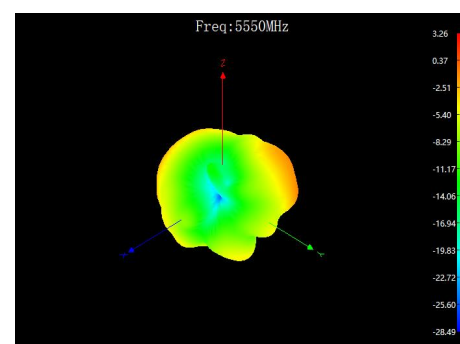
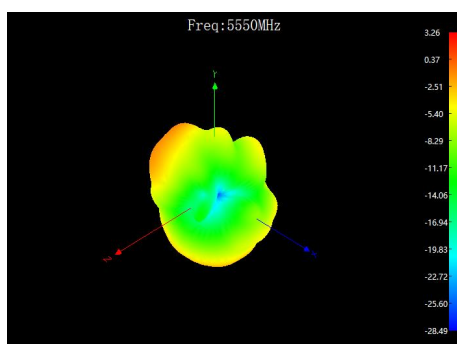
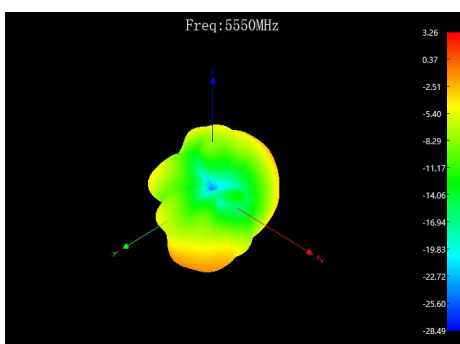




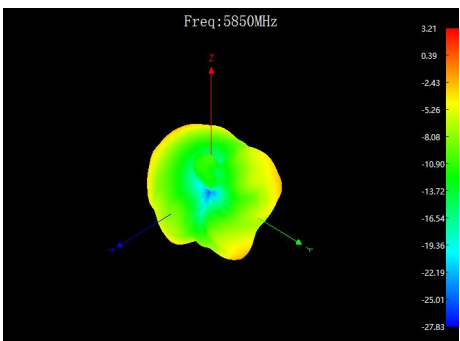
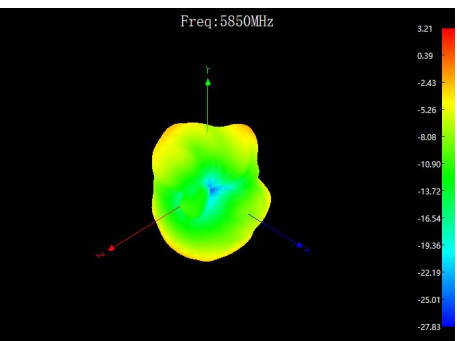
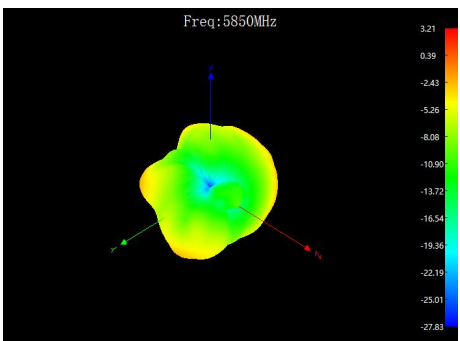
3D 5150:



3D 5550:



3D 5850:





OTA active test data statistics:

Item	Measurement	Band	Channel	Frequency	Total
1	TRP	WIFI_B (11M)	1	2412	16.91
2	TRP	WIFI_B (11M)	6	2437	17.27
3	TRP	WIFI_B (11M)	11	2462	17.19
4	TIS(EIRP)	WIFI_B (11M)	1	2412	-84.31
5	TIS(EIRP)	WIFI_B (11M)	6	2437	-82.03
6	TIS(EIRP)	WIFI_B (11M)	11	2462	-80.57
7	TRP	WIFI_G (54M)	1	2412	15.51
8	TRP	WIFI_G (54M)	6	2437	16.3
9	TRP	WIFI_G (54M)	11	2462	16.25
10	TIS(EIRP)	WIFI_G (54M)	1	2412	-71.74
11	TIS(EIRP)	WIFI_G (54M)	6	2437	-72.32
12	TIS(EIRP)	WIFI_G (54M)	11	2462	-70.93
13	TRP	WIFI_N_ISM (65M)	1	2412	14.44
14	TRP	WIFI_N_ISM (65M)	6	2437	15.12
15	TRP	WIFI_N_ISM (65M)	11	2462	14.8
16	TIS(EIRP)	WIFI_N_ISM (65M)	1	2412	-67.09
17	TIS(EIRP)	WIFI_N_ISM (65M)	6	2437	-69.45
18	TIS(EIRP)	WIFI_N_ISM (65M)	11	2462	-68.91
19	TRP	WIFI_A (54M)	36	5180	14.89
20	TRP	WIFI_A (54M)	149	5745	13.35
21	TRP	WIFI_A (54M)	165	5825	14.07
22	TIS(EIRP)	WIFI_A (54M)	36	5180	-73.41
23	TIS(EIRP)	WIFI_A (54M)	149	5745	-71.59
24	TIS(EIRP)	WIFI_A (54M)	165	5825	-71.24



Material RoHS conformity declaration form											
This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)											
About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:											
Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Wire	Coaxial cable	NGBPC24007471212	SGS	24/12/23	ND	ND	ND	ND	ND	ND	PASS
Environment ally	Environmen tally	SZXPC25000282511	SGS	25/02/27	ND	71	ND	ND	ND	ND	PASS
Terminal	Phosphor bronze	CANEC24029407216	SGS	25/01/08	ND	4	ND	ND	ND	ND	PASS
	Gold plating layer	A2250437743101001E	CTI	25/06/27	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	48279652A4001	CTI	25/07/25	ND	ND	ND	ND	ND	ND	PASS
FPC	Ink	ETR25501383	SGS	25/05/20	ND	ND	ND	ND	ND	ND	PASS
	3M9471LE	SHAEC24027480901	SGS	24/12/06	ND	ND	ND	ND	ND	ND	PASS
	Base material	SHAEC24028809006	SGS	24/12/20	ND	ND	ND	ND	ND	ND	PASS