



Sample Acknowledgment Letter

Supplier: Shenzhen Yingjiachuang Electronic Technology Co., Ltd.

Product Number (Customer): 1020900-0109

Product Name and Specifications (Customer): 2 4G/5G Black FPC Domestic Demand High-Density Wire XD-D 0.81mm Black Wire, Length = 50 mm

Sample Delivery Date: 2025 08 09

Is it a new supplier?: ☐ yes ☐ deny

Is it new material?: ☒ yes ☐ deny

Whether to replace materials: ☐ yes ☐ deny

Is it environmentally friendly?: ☒ yes ☐ deny

Supplier Review Section (must bear official seal)

Create	Examine and verify	Approval
Yin Feijie	Fang Wenfeng	Shawhan

Company Confirmation Review Column

Purchase		Research and development	
Review/Date	Approval/Date	Review/Date	Approval/Date
Quality		Engineering	Vocational work
Review/Date	Approval/Date	Approval/Date	Approval/Date



APPROVAL SHEET

Acknowledgement

CUSTOMER NAME Customer Name		
CUSTOMER P/N: Customer Part Number		
PART NAME	2.4G/5G Black FPC with built-in antenna; black wire, length 50 mm	
P/N P / N	YJC-6N050-B137	
APPROVAL REV. Order of the edition	A0	
DELIVERY DATE: Date of sample delivery	August 7, 2025	
Prepared by the organizer	Yin Feijie	
-checked by: Audit	Fang Wenfeng	
APPROVED BY: Approval	Shawhan	
Customer Approved Customer Acknowledgment		
Prepared by the organizer	-checked by: Reviewer	Approved by: Approval

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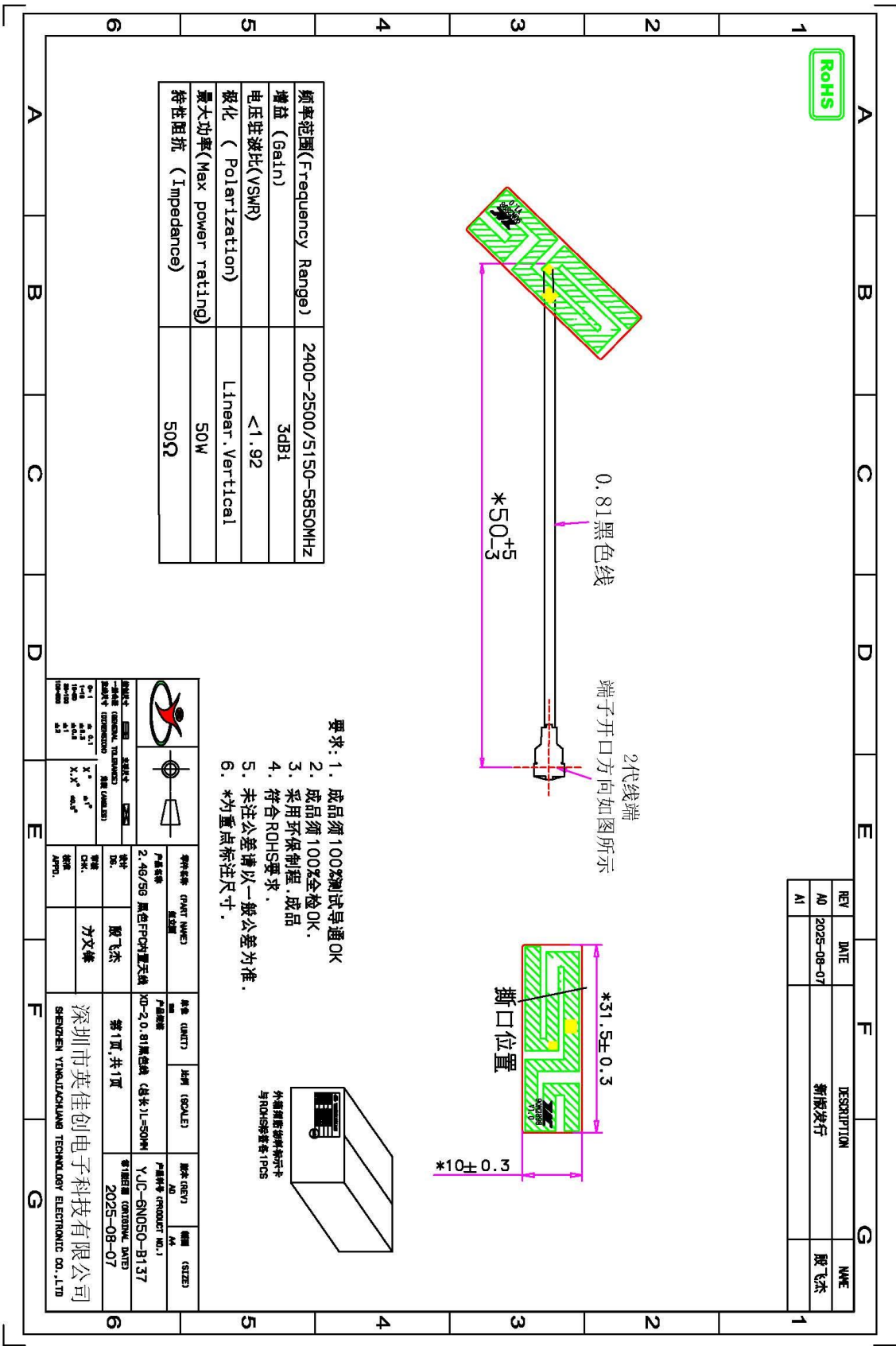


curriculum VITAC :

Edition	Change Details and Reasons	Date	Release
A/0	First Edition Release	August 7, 2025	



Antenna Plan View:





Antenna Technical Specifications and Environmental Testing:

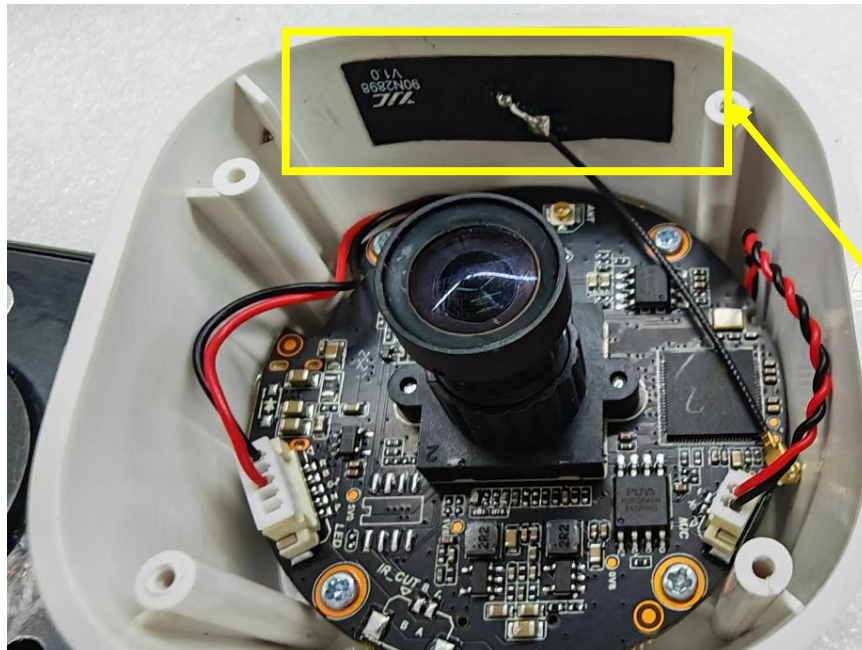
Electrical Technical Parameters			
Electrical Performance Parameters		Electrical Specifications	
Frequency range	2400-2500/5150-5850MHz	Frequency Range	2400-2500/5150-5850MHz
Voltage standing-wave ratio	<1.92	VSWR	<1.92
Input impedance	50 Ω	Input Impedance	50 Ω
Direction	Omnidirectional	Direction	All
Gain	3dBi	Gain	3dBi
Mechanical Indicators		Mechanical Specifications	
Wire Color	Black	Wire Color	Black
Interface Format	XD-2	Input connector	XD-2
Wire Length	50MM	Wire Length	50MM
Working temperature	-20°C~+70°C	Working Temperature	-20°C~+70°C
Working Humidity	20%~80%	Working Humidity	20%~80%

Environmental Performance Testing:

Project	Test condition	Specifications
Storage Environment	In the absence of specified conditions, test temperature, humidity, and air pressure as follows: 1. Temperature range: -20°C to +70°C 2. Relative humidity ranges from 45% to 85%. 3. The air pressure ranges from 86 kPa to 106 kPa.	The electrical mechanical performance is normal.
Thermocycling	Perform five cycles between 70°C and -20°C, then maintain under normal conditions for 1-2 hours before inspecting the visual quality.	The dimensions shall comply with the specified requirements and meet the requirements for mechanical and electrical performance.
Humidity and temperature test	Relative humidity: 95±3%; Test temperature: 40°C. After continuous exposure for 2 hours, the electrical properties shall be measured within 5 minutes after specimen removal. Under normal conditions, the specimen shall be examined for visual quality after 1-2 hours.	The dimensions shall comply with the specified requirements and meet the requirements for mechanical and electrical performance.
Vibration test	Frequency range: 10-55 Hz; Displacement amplitude: 0.35 mm; Acceleration amplitude: 50.0 m/s; Number of scan cycles: 30	The electrical mechanical performance is normal.
Fall-down test	The object was allowed to fall freely three times from a height of 1 meter along mutually perpendicular axes.	The electrical mechanical performance is normal.



Physical antenna image and mounting position diagram:



Antenna attachment position
Model Number: W 8 3 MP

Antenna Performance Test Diagram: W8 3MP

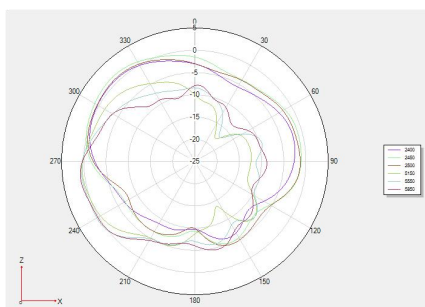




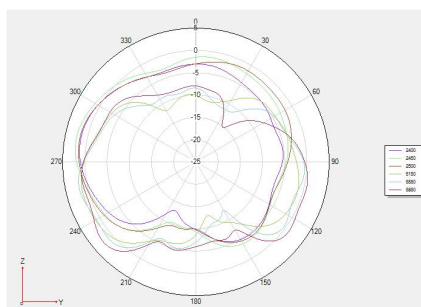
2D and 3D test data (2.4G/5G): W8-3MP

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	50.27	1.63
2410MHz	51.76	1.97
2420MHz	53.39	2.19
2430MHz	53.77	2.28
2440MHz	49.2	2.35
2450MHz	51.4	2.52
2460MHz	53.09	1.85
2470MHz	55.34	2.2
2480MHz	56.62	1.67
2490MHz	58.61	1.84
2500MHz	53.39	1.72
5150MHz	56.78	2.45
5250MHz	56.78	2.78
5350MHz	60.34	2.74
5450MHz	61.91	3.35
5550MHz	61.38	2.94
5650MHz	63.7	3.28
5750MHz	59.47	3.51
5850MHz	62.35	2.91

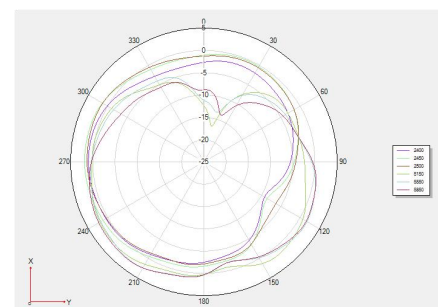
Phi02D graph :



Phi902D graph

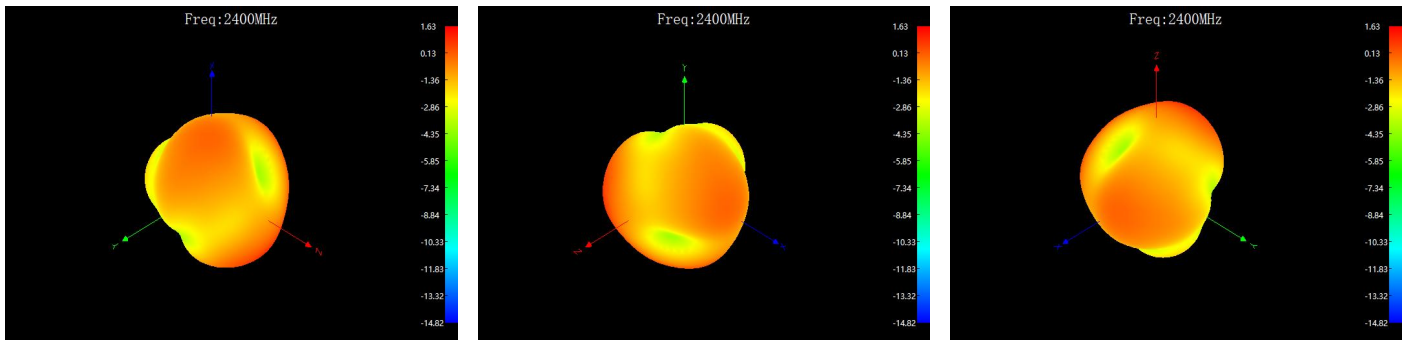


Theta902D graph

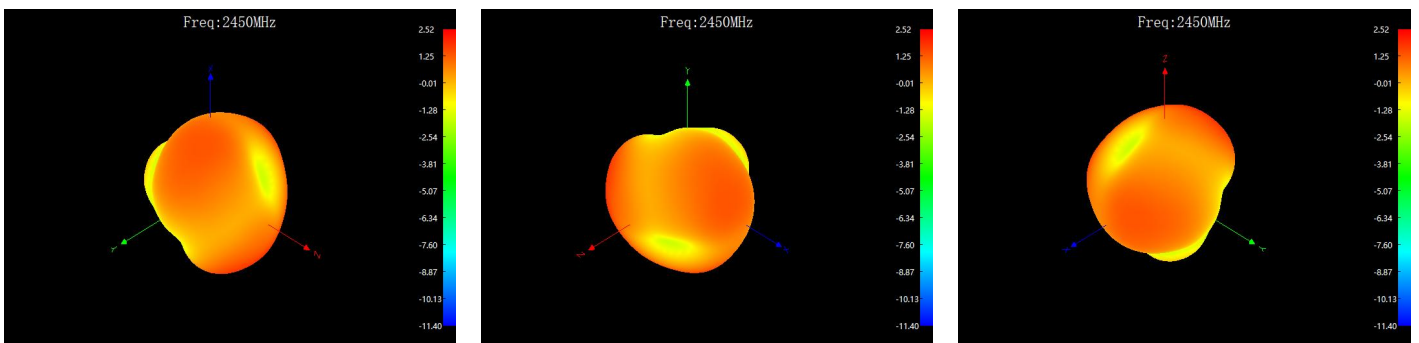




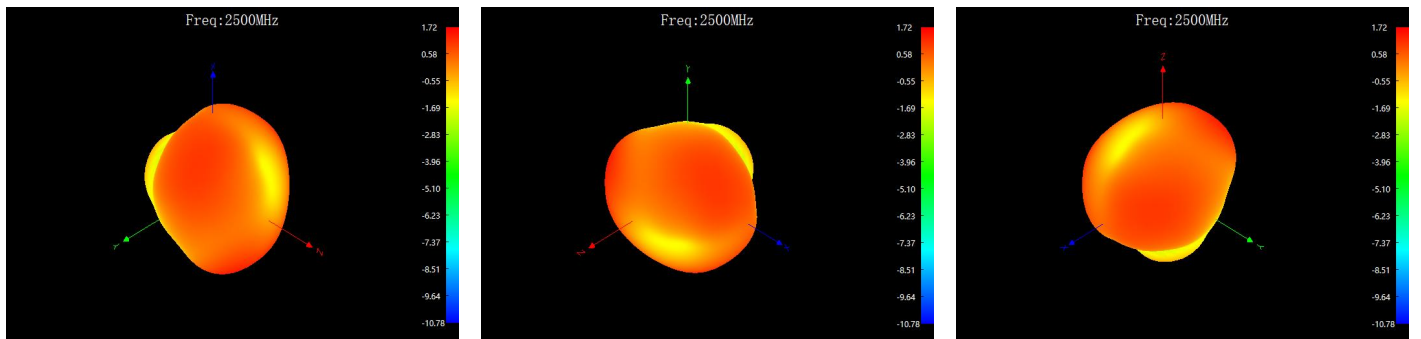
3D 2400:



3D 2450:

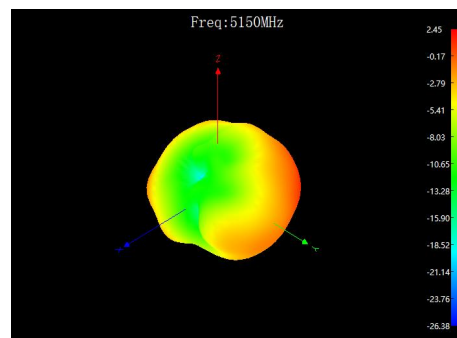
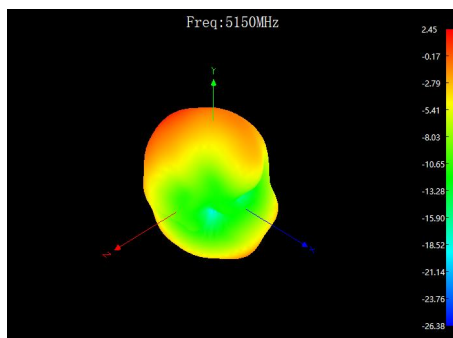
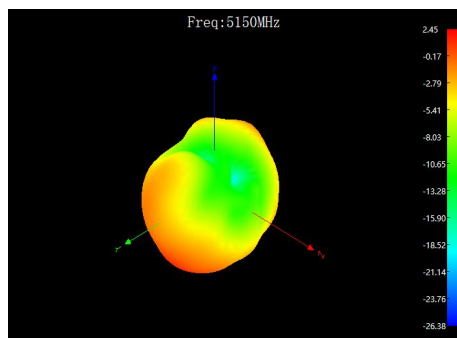


3D 2500:

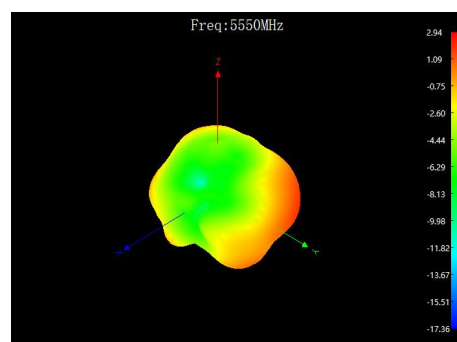
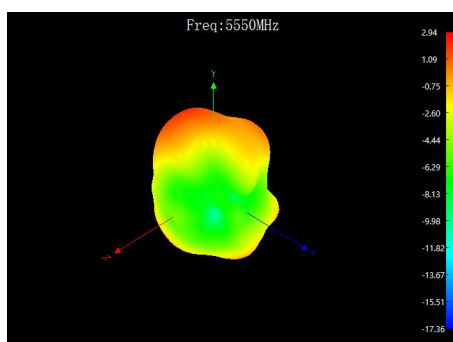
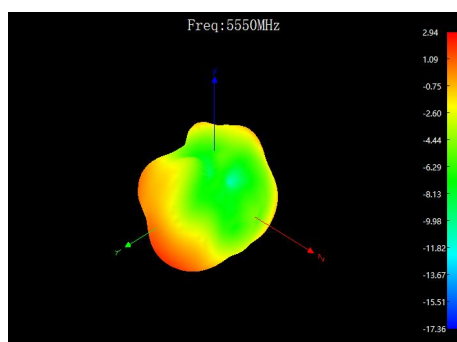




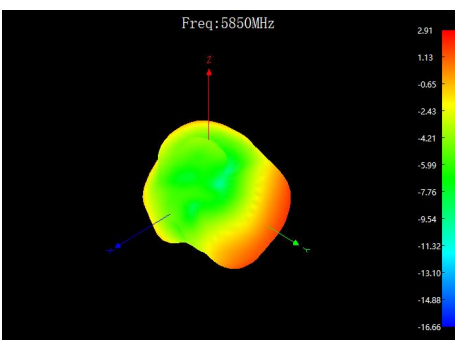
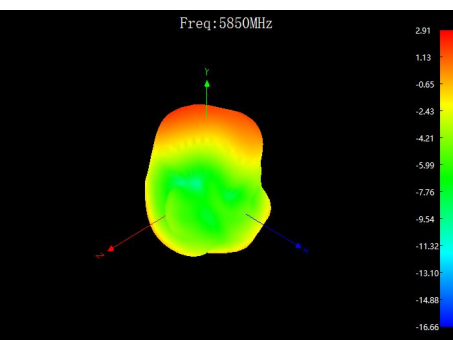
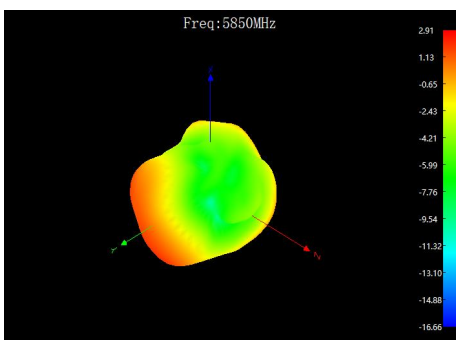
3D 5150:



3D 5550:



3D 5850:





OTA Active Testing Data Statistics:

Item	Measurement	Band	Channel	Frequency	Total
1	TRP	WIFI_B (11M)	1	2412	17.3
2	TRP	WIFI_B (11M)	6	2437	17.44
3	TRP	WIFI_B (11M)	11	2462	17.28
4	TIS(EIRP)	WIFI_B (11M)	1	2412	-84.71
5	TIS(EIRP)	WIFI_B (11M)	6	2437	-82.53
6	TIS(EIRP)	WIFI_B (11M)	11	2462	-80.57
7	TRP	WIFI_G (54M)	1	2412	15.99
8	TRP	WIFI_G (54M)	6	2437	16.81
9	TRP	WIFI_G (54M)	11	2462	16.32
10	TIS(EIRP)	WIFI_G (54M)	1	2412	-71.83
11	TIS(EIRP)	WIFI_G (54M)	6	2437	-72.79
12	TIS(EIRP)	WIFI_G (54M)	11	2462	-71.03
13	TRP	WIFI_N_ISM (65M)	1	2412	14.97
14	TRP	WIFI_N_ISM (65M)	6	2437	14.57
15	TRP	WIFI_N_ISM (65M)	11	2462	15.65
16	TIS(EIRP)	WIFI_N_ISM (65M)	1	2412	-68.08
17	TIS(EIRP)	WIFI_N_ISM (65M)	6	2437	-69.52
18	TIS(EIRP)	WIFI_N_ISM (65M)	11	2462	-67.72
19	TRP	WIFI_A (54M)	36	5180	14.17
20	TRP	WIFI_A (54M)	149	5745	14.04
21	TRP	WIFI_A (54M)	165	5825	14.81
22	TIS(EIRP)	WIFI_A (54M)	36	5180	-74.28
23	TIS(EIRP)	WIFI_A (54M)	149	5745	-72.31
24	TIS(EIRP)	WIFI_A (54M)	165	5825	-72.34



ROHS Material Control Report

It is hereby certified that all raw materials used in the components and auxiliary materials delivered to your company, as well as additives employed in the manufacturing process, comply with the environmental requirements of the RoHS Directive on the Restriction of Hazardous Substances (RoHS Directive 2011/65/EC).

The composition details of raw materials used for components and auxiliary materials, packaging materials, as well as additives employed during production are reported as follows:

Material Composition Name Component /Part Name	Material Composition Material Composition	ICP report number ICP report #	Test Organization: Test Org.	Test Date	Target substance content (ppm)						Is it qualified? PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Wire stock	Coaxial Cable	NGBPC24007471212	SGS	24/12/23	ND	ND	ND	ND	ND	ND	PASS
Environmental-friendly wire	Environmental-friendly wire	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 plate	A2240410234101001E	CTI	24/07/16	ND	ND	ND	ND	ND	ND	PASS
	Core	ETR24705722	CTI	24/08/05	ND	ND	ND	ND	ND	ND	PASS
FPC	Printing ink	ETR24902229M01	SGS	24/09/23	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