

Shenzhen Jintaiyi Electronics Co., Ltd.

sample INFORMED CONSENT FORM

Sample submission date

2026.05.06

Supplier name:		Shenzhen Shundacheng Technology Co., Ltd.			
project name:		Three-element antenna_T30X-6769-K11			
part name :		WG6677B-0814R-90			
Part Description:		Three-in-one antenna, GWB, FPC, black, soldered with 0.81 mm spacing; fourth-generation single-head black wire, L=90 mm; antenna screen printing: SDC T30X-6769-K11 WG			
Part Number:		3.17.03200			
General Project Model					
Key detection items:	structu re				
	hardwar e				
	softwar e				
	surface				
Structural Engineer Confirmation:				Senior Architect Confirmation:	
Project Department Opinion:					
ID engineer confirmation:				ID Manager confirms:	
Quality Department Opinion:					
Project Quality Engineering Certification:					
Hardware engineer confirmation:		Radio frequency engineer confirmation:		Audio engineer confirmation:	
				Note: The above admission letter does not require a signature.	
Project Manager's approval of the plan:					
Packaging Engineer Confirmation:					
Sales Department Confirmation Opinion:					
Sales Order Confirmation:				Sales Manager Confirmation:	
Product Manager Confirmation:					
Reason for change and change points:					
Request change confirmation:					
character of admission statement: ☒ secular ☐ temporary ☐ Color Palette ☐ Structure Template ☐ Assembly template ☒ final instrument of recognition					
old admission processing: ☐ seal up for safekeeping ☐ cancel					
Notes: Structural Engineer: Responsible for certification document drawings and oversees structural design, dimensional specifications, and mold requirements for certification samples. Hardware (Audio/Radio Frequency) Engineer: Manages electrical performance drawings and hardware specifications for certification documents, ensuring electrical performance compliance of samples. Project Quality Engineer: Oversees all certification samples and implements quality standards. Packaging Engineer: Manages packaging-related materials, dimensions, drawings, and labeling information. Solution Project Manager: Responsible for software drivers and firmware related to certification documents, with no signature required. Product Project Manager: Responsible for certification material information, part numbers, and supplier selection during the R&D phase. Sales Order Tracking: Responsible for certification documents, sample specifications, and customer-specific requirements, with no signature required.					

Form number: JTY-FM-PMD-002/B0



SPECIFICATION FOR APPROVAL

Customer Name	Jintaiyi		
Customer Project Name	T30X-6769-K11	SDC Project Name	T30X-6769-K11
Customer P/N	3. 17. 03200	SDC P/N	WG6677B-0814R-90
Band	WiFi&GPS		
Version	A0		
Designer Information			
RF Engineer	Yang Yonghui	R&D Diretor	Fu Xuerong
ME Engineer	Li Yaona		

Approval				Customer Approval	
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	Li Yaona	Yang Yonghui	Fu Xuerong		
Date	2026. 05. 06	2026. 05. 06	2026. 05. 06		

Change Log				
Version	Change Description	Person in Charge	Approval By	Date



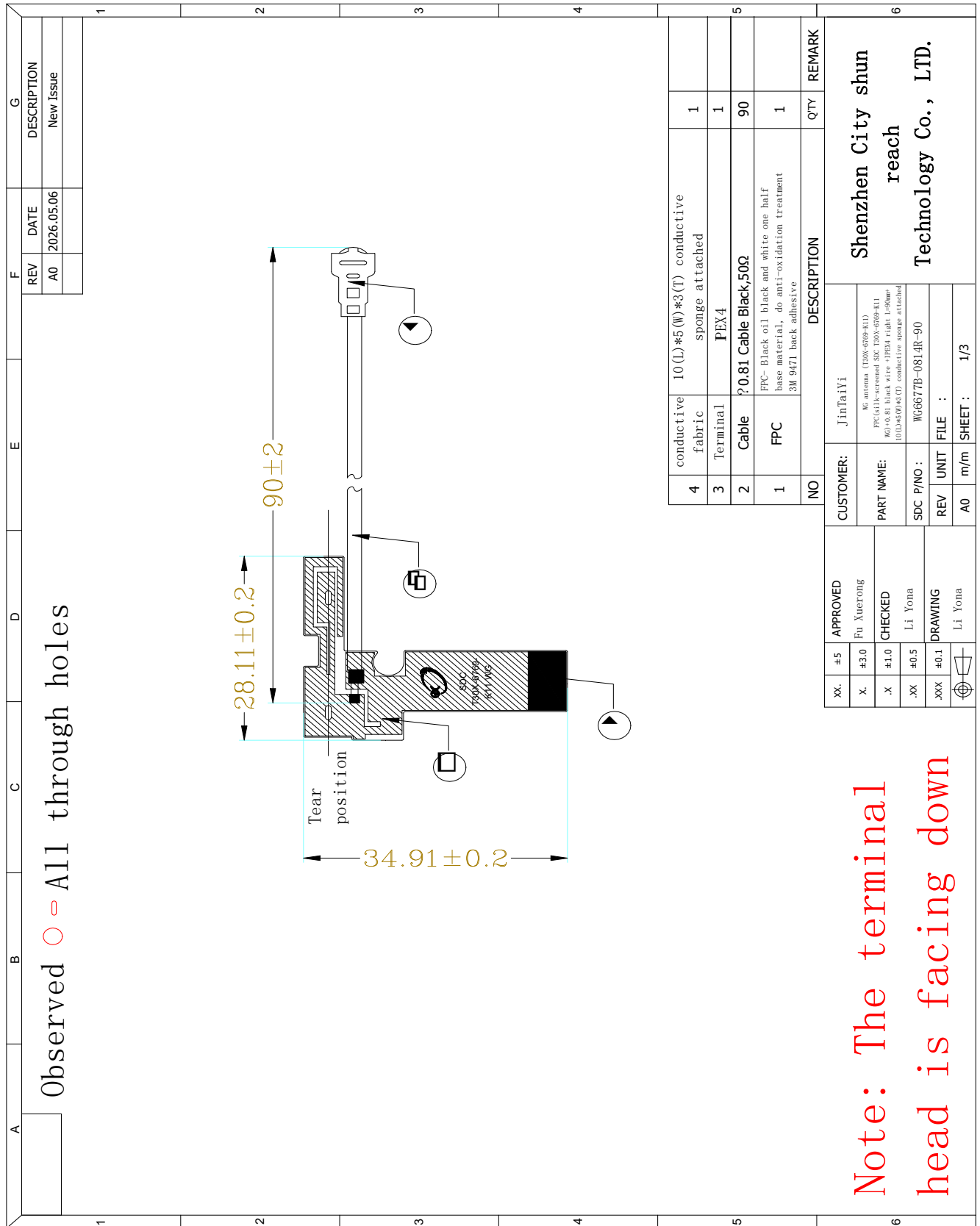
Catalogue

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Drawing or Product Image





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Sample Dimensions Test Report

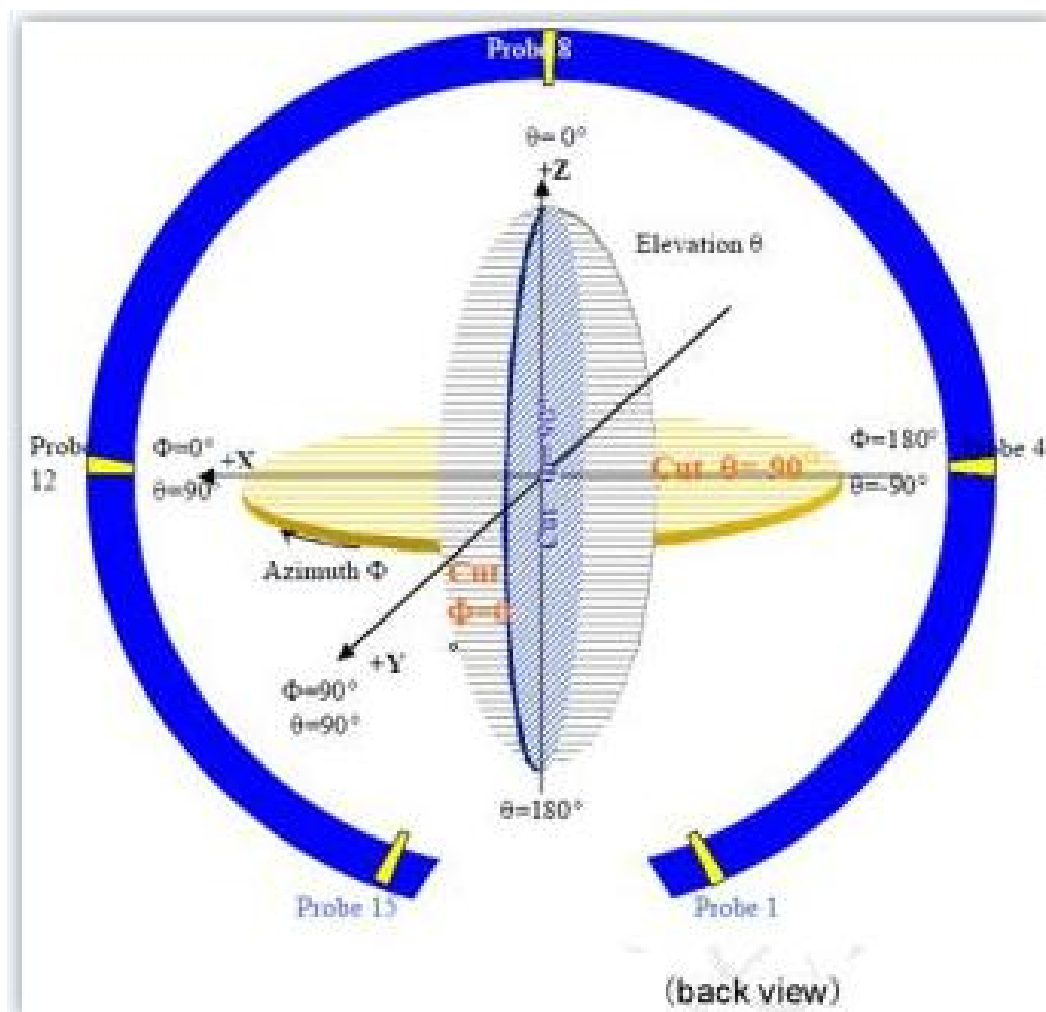
Test Date	2026. 05. 06	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	28. 11±0. 2mm	28. 15	28. 2	28. 2	Pass
②width	34. 91±0. 2mm	34. 95	35	35	Pass
③thickness	0. 1±0. 03mm	0. 1	0. 1	0. 1	Pass
④wire length	90±2mm	90	91	90	Pass
Conclusion					PASS
Inspector & Date	Xu Yanfang 2026. 05. 06		Approval & Date		



RF Performance Test Report

Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the guangping 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:



1. **S11 Parameter-VSWR**

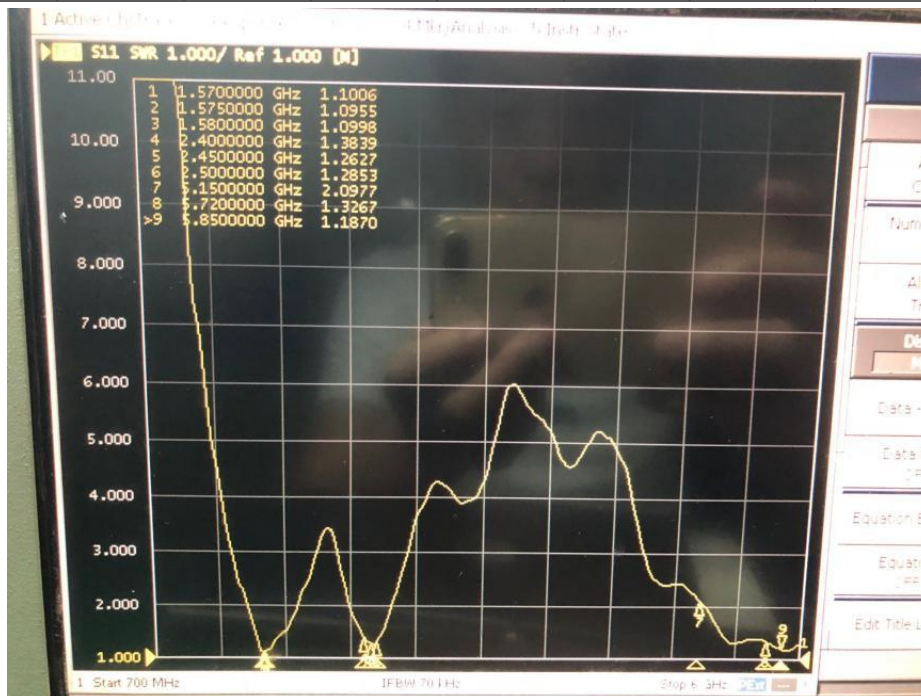
Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



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S11 Parameter-VSWR

(MHZ)	1570	1575	2400	2450	2500	5150	5720	5850
VSWR	1.10	1.09	1.38	1.26	1.28	2.09	1.32	1.18



2. Antenna Matching Network

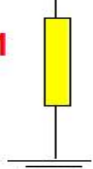
Antenna



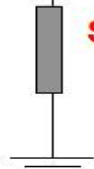
Series
N/A

PA

Shunt 01
N/A



Shunt 02
N/A

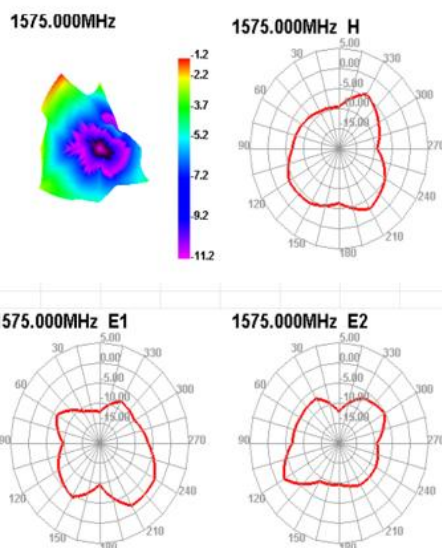




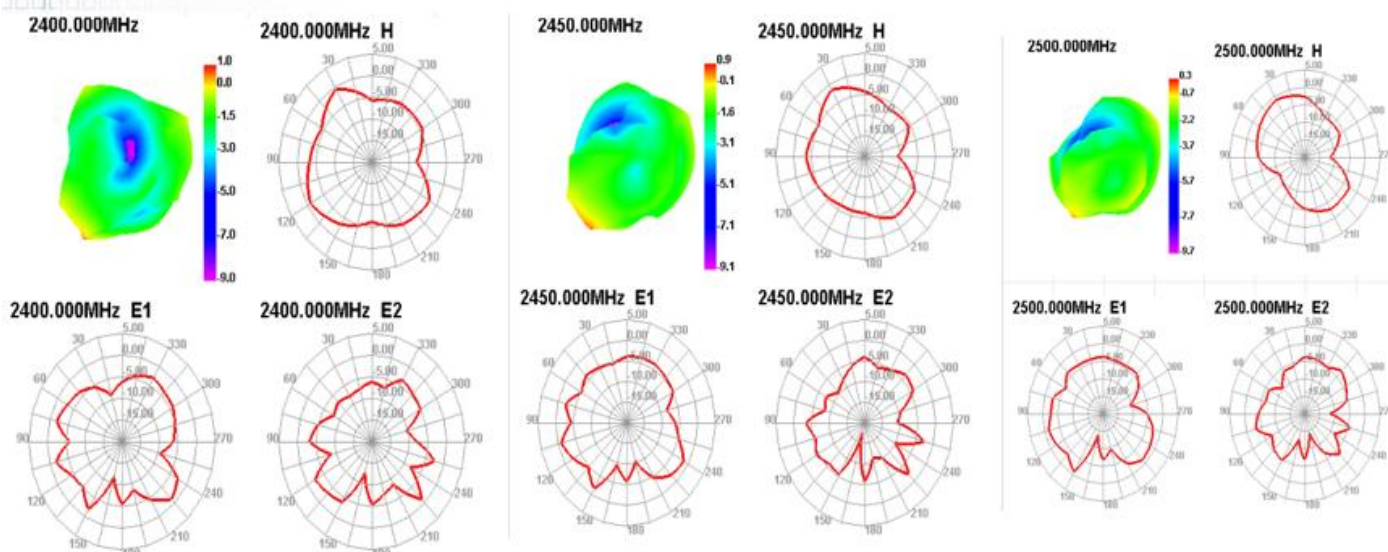
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3. Gain & Efficiency

Passive Test For GPS												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
1575	36.51	-5.77	-1.21	-3.36	12.283	14.23	-1.21	-12.28	4.55	30	41.76	41.42



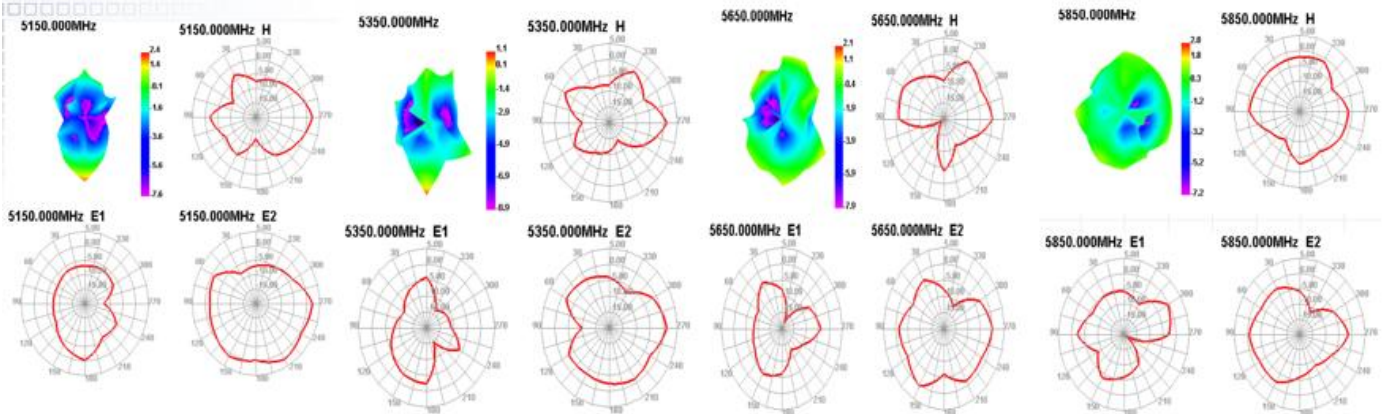
Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	43.54	-3.61	1.03	-1.12	20.581	22.962	1.03	-15.9	4.64	15	48.93	49.09
2425	45.48	-2.97	1.96	-0.19	23.926	26.555	1.96	-16.48	4.93	15	49.09	49.22
2450	36.53	-4.37	0.87	-1.28	17.136	19.397	0.87	-19.74	5.24	15	49.25	49.27
2475	35.97	-4.44	0.52	-1.63	17.205	18.763	0.52	-23.22	4.96	75	49.98	49.91
2500	36.94	-4.32	0.32	-1.83	17.676	19.267	0.32	-18.36	4.64	75	49.71	49.62





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Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	42.13	-3.75	2.36	0.21	16.688	25.441	2.36	-12.69	6.11	0	58.6	58.01
5250	36.5	-4.38	1.37	-0.78	16.245	20.256	1.37	-11.52	5.75	30	58.53	57.74
5350	33.61	-4.73	1.07	-1.08	14.487	19.127	1.07	-15.18	5.81	60	57.99	57.08
5450	38.75	-4.12	2.03	-0.12	14.442	24.308	2.03	-15.14	6.15	0	59.19	57.9
5550	43.16	-3.65	2.14	-0.01	15.599	27.564	2.14	-19.43	5.79	60	60.21	58.81
5650	45.41	-3.43	2.1	-0.05	16.711	28.699	2.1	-20.47	5.53	0	60.31	59.42
5750	46.58	-3.32	2.17	0.02	17.996	28.581	2.17	-18	5.49	30	60.88	60.28
5850	44.83	-3.48	2.78	0.63	18.496	26.336	2.78	-23.77	6.27	30	61.09	60.41



4. GPS measured drawing



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5. WiFi OTA Data



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2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	12.48	12.71	12.06
TIS	-80.79	-80.12	-80.02
5.8G	802.11a, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	4.59	4.28	5.82
TIS	-67.05	-67.92	-69.25

Note: The conducted gain of the 5.8GHz antenna is on the low side, measuring 9, 8, and 9 dBi at the low, center, and high frequencies, respectively



Reliability Test Report

Test Date	2026. 05. 06	Sample Qty.	3	Inspector	Xu Yanfang	
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG
High temperature storage	The test was carried out after 24H exposure at +85℃ and 2H recovery	Constant temperature and humidity box	OK	OK	OK	Pass
Low temperature storage	The test was carried out after 24H exposure at -40℃ and 2H recovery	Constant temperature and humidity box	OK	OK	OK	Pass
High temperature work	At +60℃ for 24H	Constant temperature and humidity box	OK	OK	OK	Pass
Work in low temperature	At -20℃ under the condition of power work for 24H	Constant temperature and humidity box	OK	OK	OK	Pass
Salt spray test	The pH value was 6.5 ~ 7.2, and the temperature of the experimental chamber was (35±2)℃ ☐ 24H ☒ 48H	Salt spray testing machine	OK	OK	OK	Pass
Connector riveting and drawing force	1. 13Wire diameter ≥ 10N 0. 81Wire diameter ≥ 8N RG174 ≥60N RG178 ≥50N	Push pull meter	≥10N	≥10N	≥10N	Pass
Conclusion						Pass
Inspector & Date	Xu Yanfang 2026. 05. 06		Approval & Date			



Packing rules

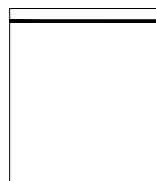
Project name: T30X-6769-K1095

Product name: FPC antenna

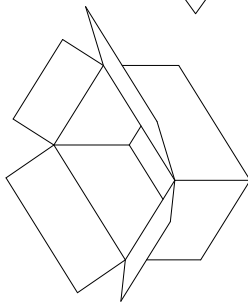
FPC antenna (one)



(two) Each PE bag contains 100pcs of products (subject to actual packaging)



(three) Then put the small antenna bag neatly into (Figure 3) and fill 10 small bags (the actual packaging shall prevail).



(four) The packaged antenna can be put into a carton, which can hold 5 large bags, each box can hold 5000PCS (Figure 4). (Subject to actual packaging)



supplier	
purchase order number	
material code	
specifications and models	
quantity	
date	

(five) After the packaging is completed, the shipping label should be affixed (Figure 5).



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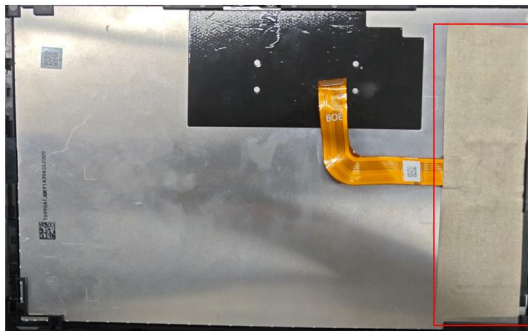
Install Wizard or Other

Installation process:

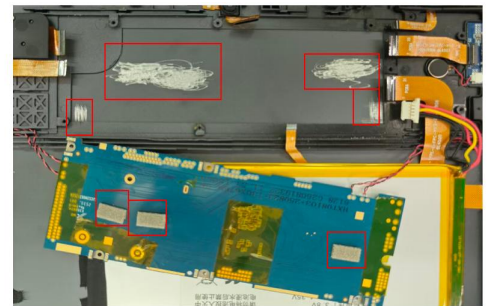
Take 1PCS of products and tear off the release paper on the back of the FPC by hand. Then align the positioning holes of the FPC with the positioning holes of the shell (positioning bars or positioning wires) and attach them to the shell smoothly. The specific positions are shown in the figure below:

Precautions for installation:

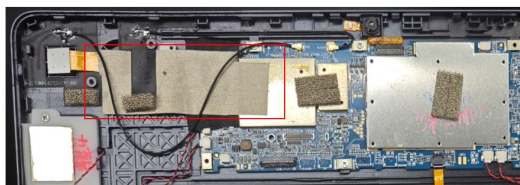
- ☐ After attaching the antenna, ensure that the FPC is fully attached to the shell;
- ☐ The positioning hole is aligned with the position of the housing positioning column;
- ☐ FPC edges are aligned with housing edges;
- ☐ When connecting the antenna with terminal to the PCBA end of the motherboard, align the terminal first and then close it vertically.
- ☐ When removing the antenna terminal, use a tool (such as a dedicated crowbar) to lift the terminal vertically. Do not pull the cable to remove the terminal directly.



The screen FPC/cable is shielded with conductive fabric.



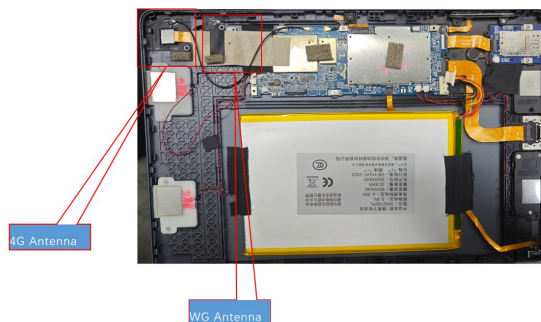
The back cover is laser-etched. A conductive sponge is applied to the exposed copper area beneath the mainboard.



The camera FPC is shielded with conductive fabric.



Apply conductive sponge on the motherboard shield for grounding.



Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Baoan District, Shenzhen Telephone :0755-27211658 Fax :0755-29485750



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ROHS

Certificate

Certificate Number: UNIB25072421HC-01



Product: 5G/4G/WIFI/GPS/BT antenna/M808 antenna
Applicant: ShenZhen ShunDaCheng Technology Co., Ltd.
4th Floor, Building B5, Xinfu Industrial Zone, Fuyong Chongqing Road,
Baoan District, Shenzhen
Manufacturer: ShenZhen ShunDaCheng Technology Co., Ltd.
4th Floor, Building B5, Xinfu Industrial Zone, Fuyong Chongqing Road,
Baoan District, Shenzhen
Model No.: N/A
Trade Mark: N/A
Test Methods: IEC 62321-2:2021, IEC 62321-3-1:2013, IEC 62321-4:2013 +A1:2017,
IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015
IEC 62321-7-2:2017, IEC 62321-8:2017

The laboratory tested the product provided by the applicant according to the above test methods. According to the test results, the product conforms to RoHS Directive [(2011/65/EU and Amendment (EU) 2015/863)] issued by the European Commission. It is possible to use CE marking to demonstrate the compliance with RoHS Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: UNIB25072421HR-01.

Note: According to the requirements of the applicant for testing, details are shown in the test report.

RoHS

Aug. 28, 2025
Issue Date

Hoffer Lau

Shenzhen United Testing Technology Co., Ltd.

Shenzhen: D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District,
Longhua District, Shenzhen, Guangdong, China/518109

Guangzhou: No.47-3, Industrial Road, Zhushan, Dalong Street, Panyu District, Guangzhou, Guangdong,
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Tel: +86-755-86180996/+86-020-39277769

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Certificate of Compliance

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