



SHUN DA CHENG TECHNOLOGY CO., LTD

SPECIFICATION FOR APPROVAL

Customer Name	Jinghua		
Customer Project Name	NP15-TU-DY	SDC Project Name	NP15-TU-DY
Customer P/N		SDC P/N	WF7200B-0814R-445 MAIN (Black) WF7200B-0814L-525 AUX (Grey)
Band	WIFI2. 4G/5. 8G/BT		
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. 07. 29	2026. 07. 29	2026. 07. 29		

Change Log				
Version	Change Description	Person in Charge	Approval By	Date



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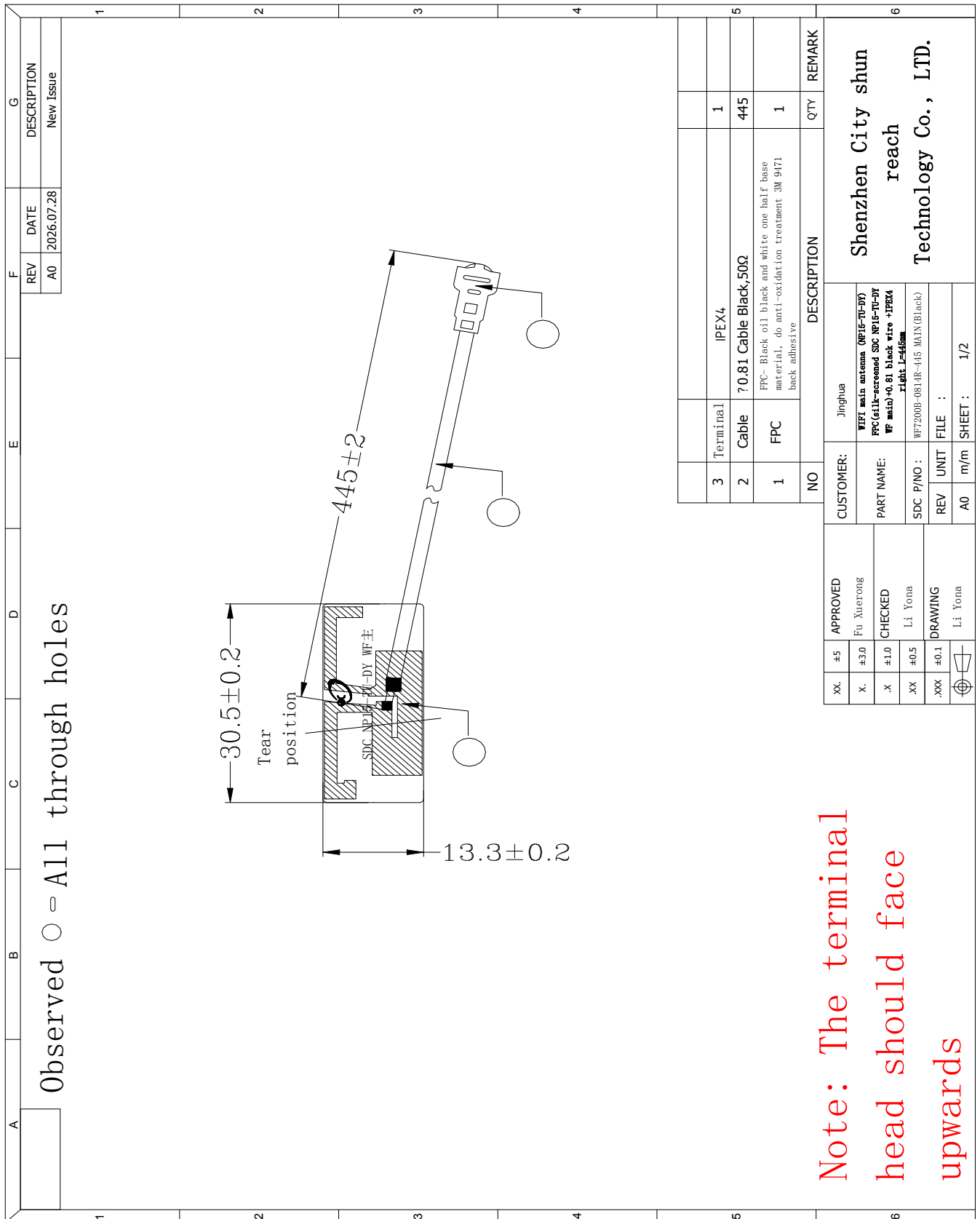
Catalogue

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Drawing or Product Image





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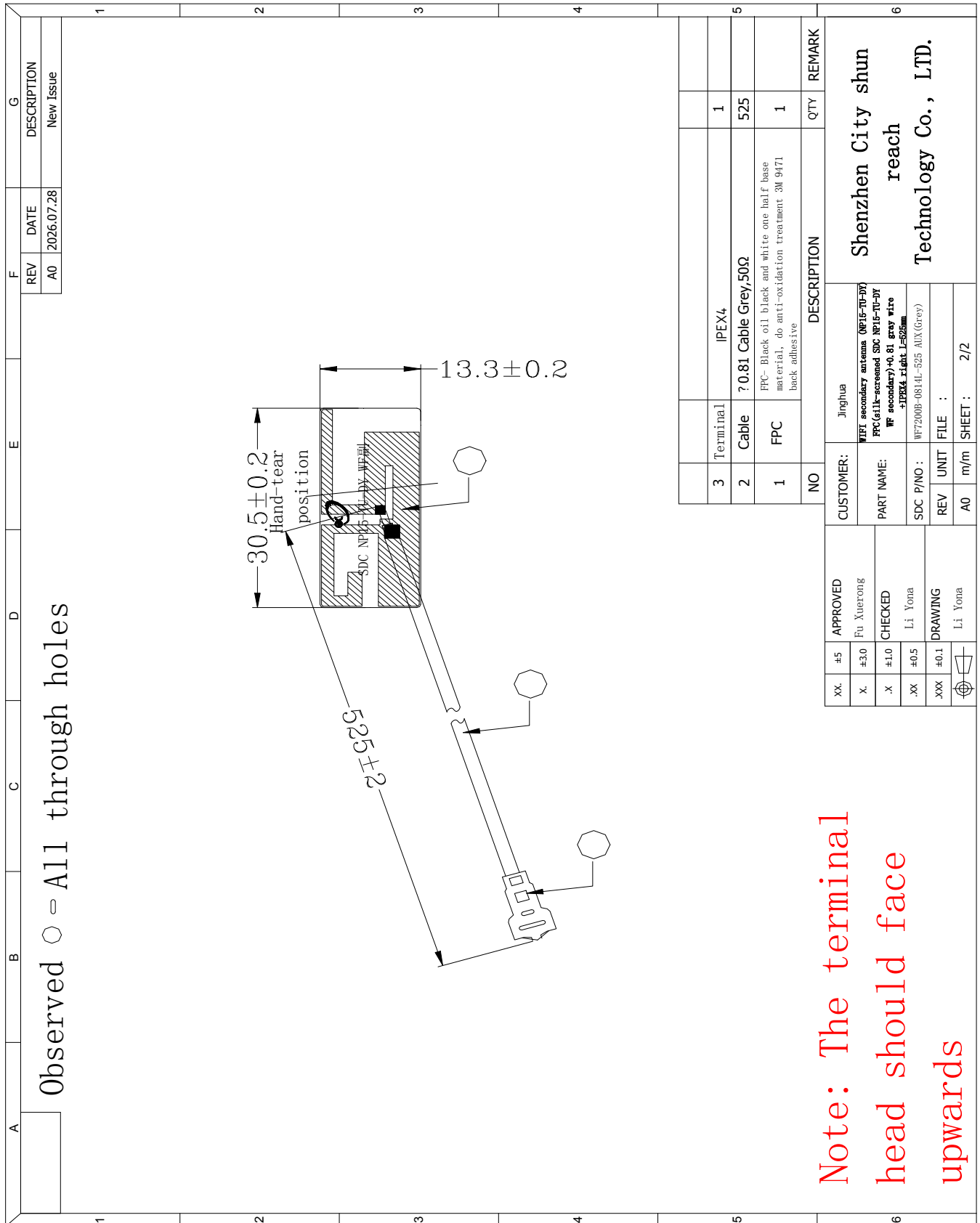
Sample Dimensions Test Report

Test Date	2026. 07. 29	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	30. 5±0. 2mm	30. 5	30. 6	30. 5	Pass
②width	13. 3±0. 2mm	13. 3	13. 4	13. 3	Pass
③thickness	0. 1±0. 03mm	0. 1	0. 1	0. 1	Pass
④wire length	445±2mm	445	446	446	Pass
Conclusion					PASS
Inspector & Date	Xu Yanfang 2026. 07. 29		Approval & Date		



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Drawing or Product Image





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Sample Dimensions Test Report

Test Date	2026. 07. 29	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	30. 5±0. 2mm	30. 5	30. 6	30. 5	Pass
②width	13. 3±0. 2mm	13. 3	13. 4	13. 3	Pass
③thickness	0. 1±0. 03mm	0. 1	0. 1	0. 1	Pass
④wire length	525±2mm	525	526	526	Pass
Conclusion					PASS
Inspector & Date	Xu Yanfang 2026. 07. 29		Approval & Date		

RF Performance Test Report

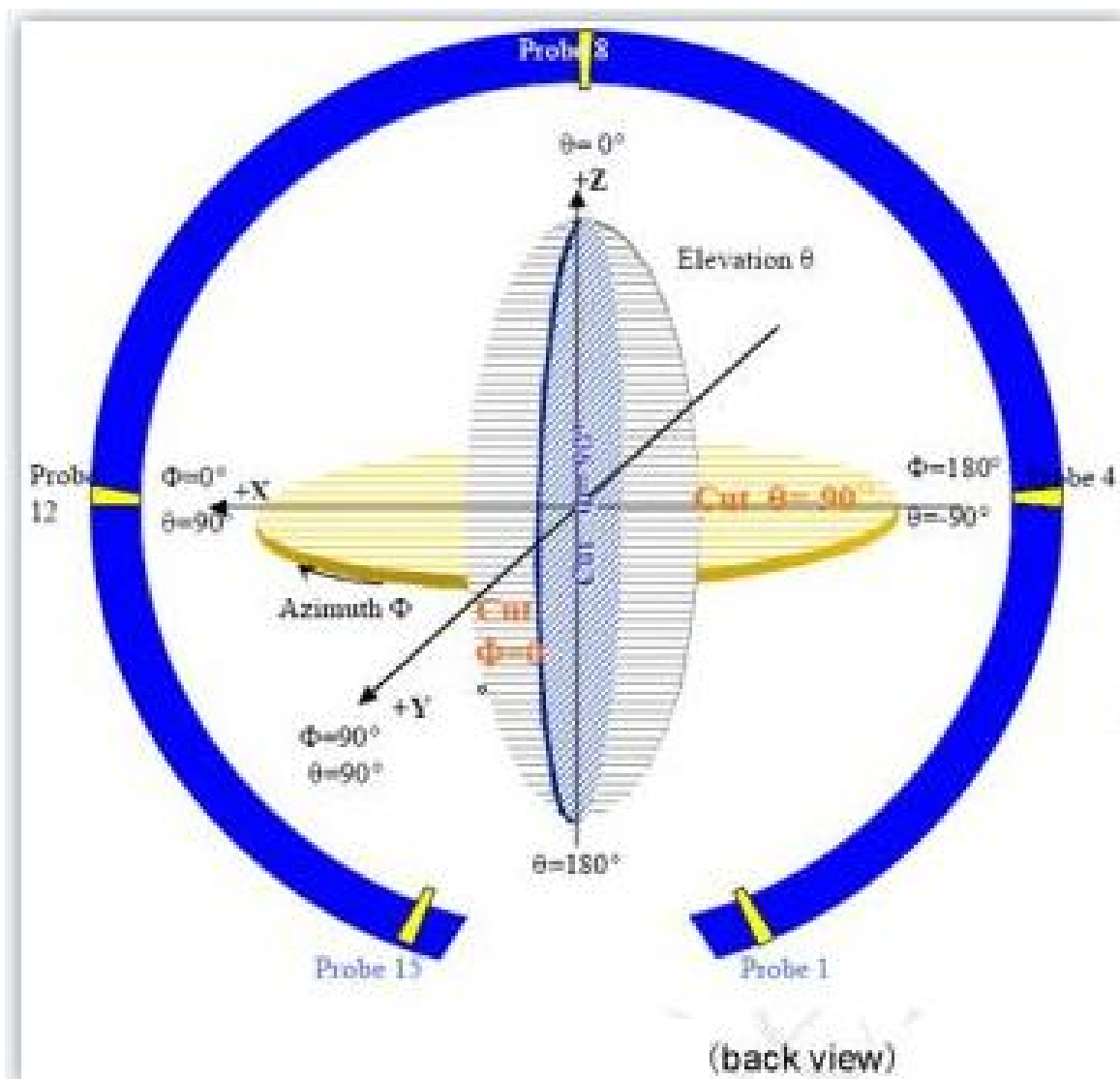
Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Baoan District,
Shenzhen Telephone :0755-27211658 Fax :0755-29485750



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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:



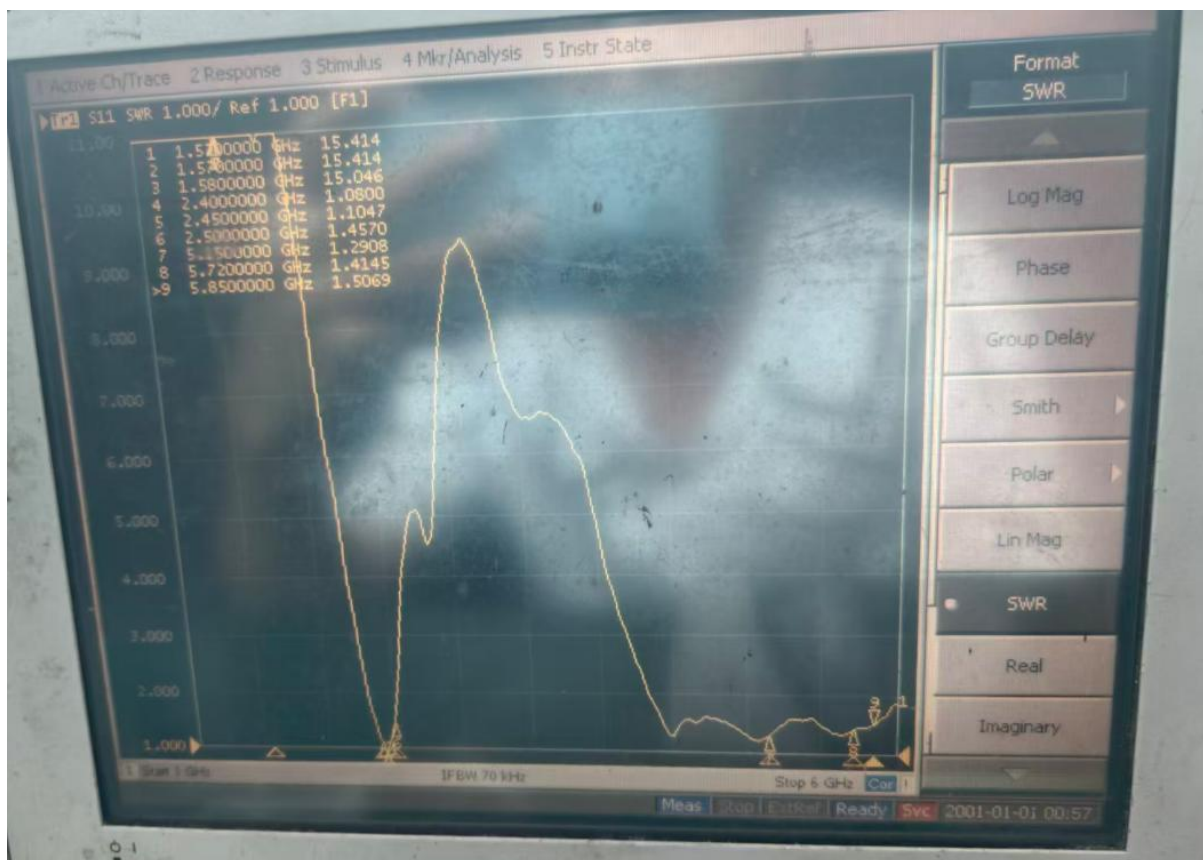
1. **S11 Parameter-VSWR**

Measuring Method is a 50Ω 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



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2. Antenna Matching Network

Antenna



Series
N/A



PA

Shunt 01
N/A



Shunt 02
N/A

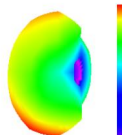


3. Gain & Efficiency

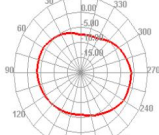
WiFi MAIN

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	38.53	-2.4	1.51	-0.64	33.473	24.054	1.51	-11.31	3.91	30	49.26	49.31
2425	41.72	-2.86	1.08	-1.07	30.643	21.077	1.08	-11.58	3.94	30	48.96	49.02
2450	43.39	-3.15	0.87	-1.28	28.978	19.41	0.87	-11.67	4.03	30	48.56	48.52
2475	37.43	-3.24	1.04	-1.11	28.552	18.878	1.04	-10.32	4.28	60	48.46	48.26
2500	40.27	-3.44	0.99	-1.16	27.953	17.315	0.99	-9.97	4.44	60	48.42	48.11

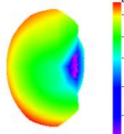
2400.000MHz



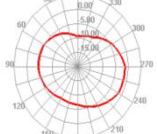
2400.000MHz H



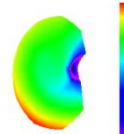
2450.000MHz



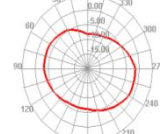
2450.000MHz H



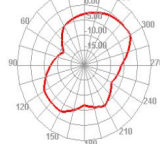
2500.000MHz



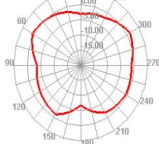
2500.000MHz H



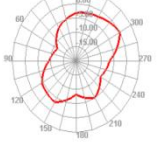
2400.000MHz E1



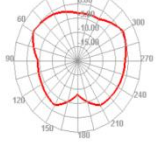
2400.000MHz E2



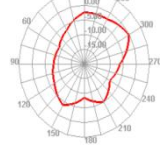
2450.000MHz E1



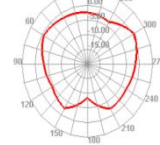
2450.000MHz E2



2500.000MHz E1



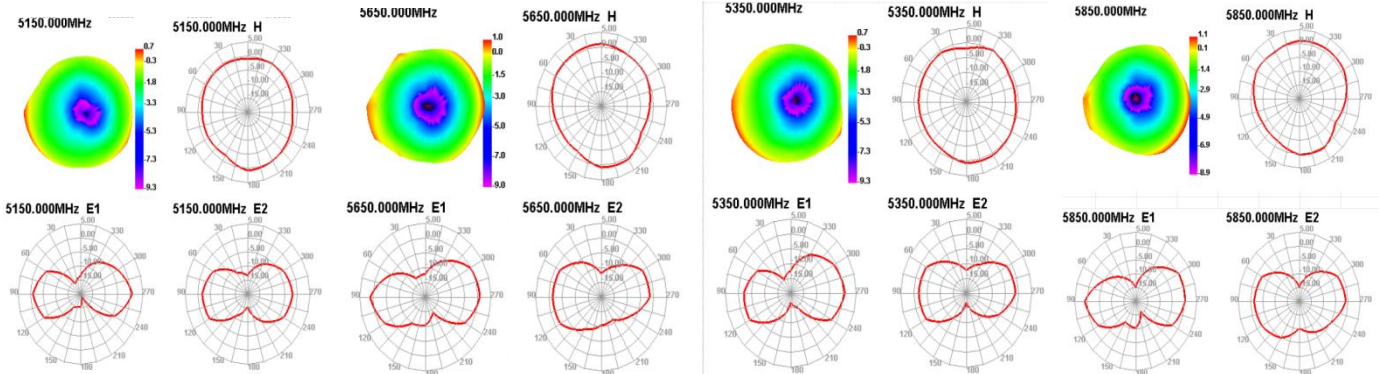
2500.000MHz E2





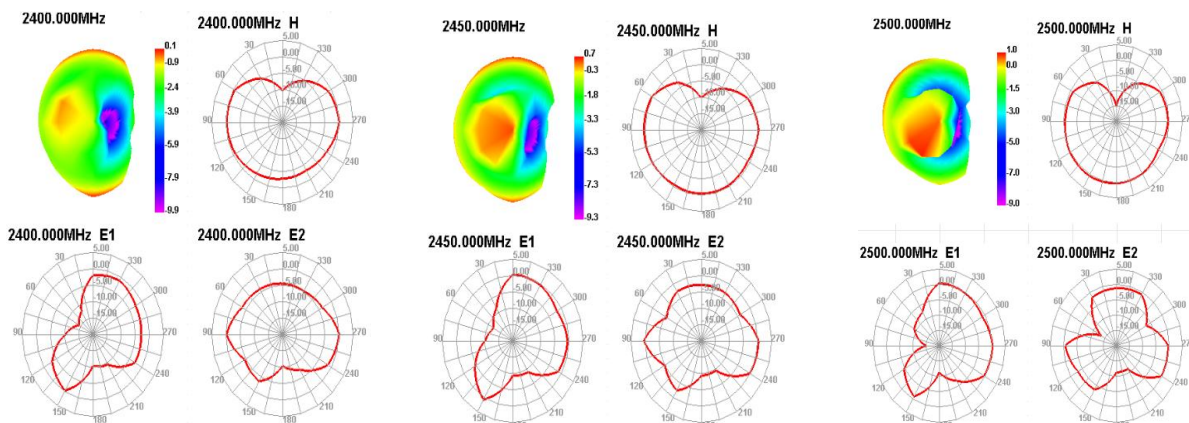
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Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	43.79	-3.59	0.72	-1.43	22.114	21.674	0.72	-19.28	4.31	0	57.99	57.31
5250	41.85	-3.78	0.39	-1.76	22.07	19.78	0.39	-20.72	4.17	0	58.64	57.79
5350	42.12	-3.27	0.67	-1.48	25.409	21.716	0.67	-16.84	3.93	60	58.04	57.23
5450	39.33	-2.81	0.8	-1.35	28.09	24.245	0.8	-18.36	3.61	60	58.98	57.56
5550	38.66	-3.4	0.38	-1.77	25.02	20.636	0.38	-18.56	3.78	60	60.33	58.82
5650	42.42	-2.8	1.03	-1.12	28.992	23.433	1.03	-14.08	3.84	0	60.1	59.14
5750	37.88	-2.93	1.33	-0.82	28.077	22.799	1.33	-13.14	4.26	0	60.77	60.09
5850	41.76	-2.86	1.15	-1	28.507	23.253	1.15	-15.86	4.01	0	61.38	60.74



WiFi AUX

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	35.35	-3.34	0.09	-2.06	20.516	25.833	0.09	-17.9	3.43	0	48.15	48.07
2425	36.9	-2.68	0.67	-1.48	23.52	30.378	0.67	-17.42	3.35	0	48.4	48.36
2450	40.7	-2.54	0.73	-1.42	24.288	31.409	0.73	-15.75	3.28	0	48.58	48.46
2475	41.84	-2.3	1.13	-1.02	25.932	32.904	1.13	-13.17	3.44	120	49.04	48.75
2500	40.71	-2.54	1.04	-1.11	24.69	31.019	1.04	-14.91	3.58	120	48.85	48.71

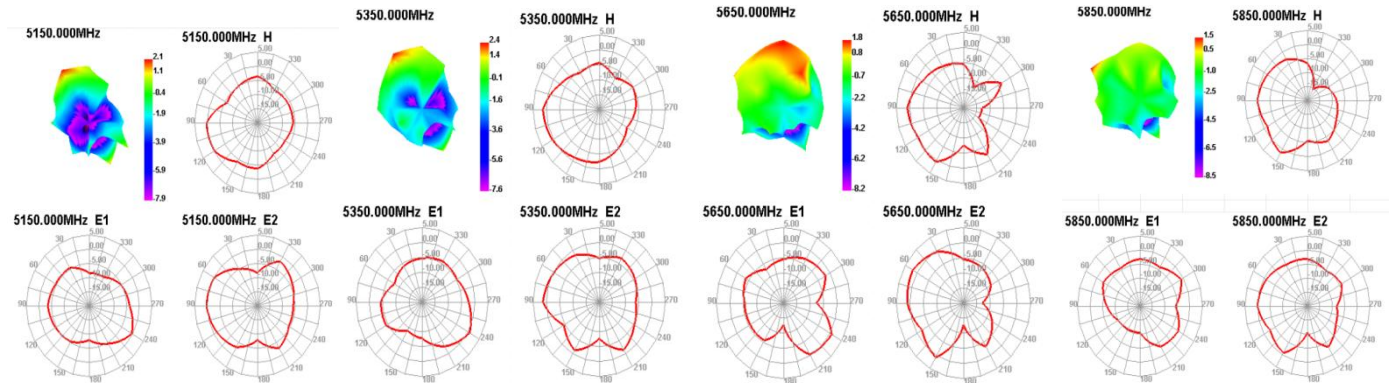


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Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	40.83	-3.48	2.11	-0.04	21.07	23.76	2.11	-12.75	5.59	0	58.6	58.01
5250	38.58	-3.92	1.72	-0.43	18.999	21.578	1.72	-14.78	5.64	0	58.53	57.74
5350	42.91	-3.2	2.44	0.29	22.934	24.976	2.44	-14.65	5.64	0	57.99	57.08
5450	39.47	-2.8	2.43	0.28	25.65	26.819	2.43	-12.63	5.23	30	59.19	57.9
5550	41.98	-2.84	1.68	-0.47	25.93	26.048	1.68	-13.83	4.52	30	60.21	58.81
5650	43.18	-2.74	1.77	-0.38	26.741	26.438	1.77	-17.54	4.52	30	60.31	59.42
5750	38.46	-2.89	1.12	-1.03	26.232	25.228	1.12	-13.74	4.01	60	60.88	60.28
5850	42.24	-3.35	1.49	-0.66	23.31	22.932	1.49	-15.39	4.84	0	61.09	60.41



4.WIFI OTA Data

2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	11.93	11.56	12.02
TIS	-74.52	-75.31	-75.87
5.8G	802.11a, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	10.42	9.39	3.16
TIS	-66.49	-67.54	-67.61

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Reliability Test Report

Test Date	2026. 07. 29	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. 07. 29		Approval & Date			

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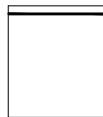


Packing rules

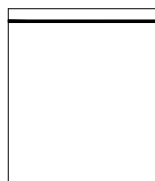
Project name: NP15-TU-DY

Product name: FPC antenna

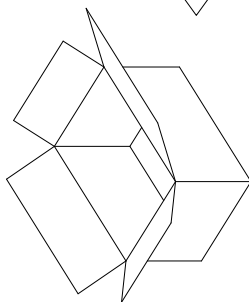
FPC antenna (one)



(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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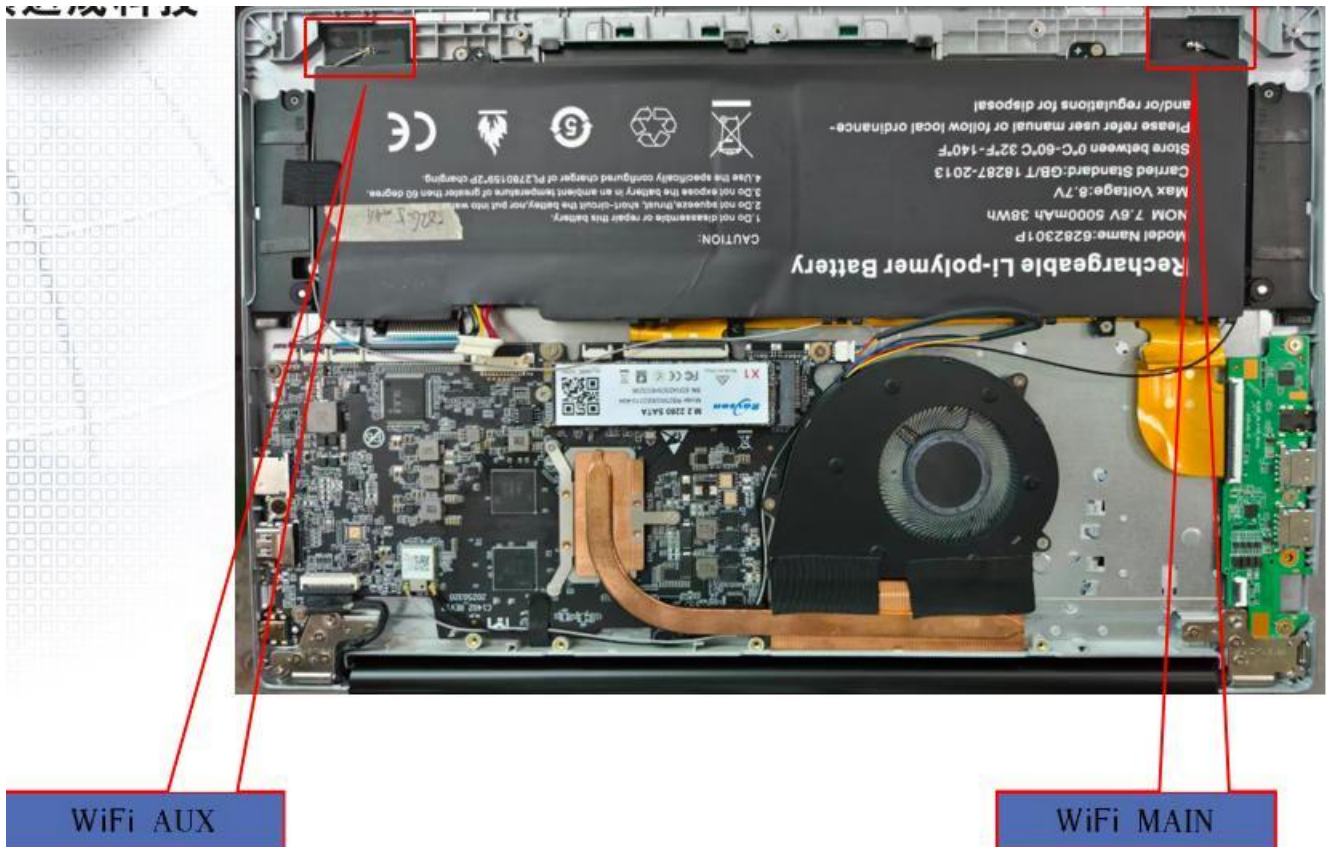
Install Wizard or Other

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





SHUN DA CHENG TECHNOLOGY CO., LTD

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.

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Guangzhou: No.47-3, Industrial Road, Zhushan, Dalong Street, Panyu District, Guangzhou, Guangdong, China/511450;

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Certificate of Compliance

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