



Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Specification Acknowledgment Letter Approval Sheet

Customer Name	Li Min	Date	2025/12/02
Product Name	WiFi Antenna	Client Model Models	TRMPC01- AIHNR1395
Part Number	Main:F1511-14LB-160 Aux: F1511A-14LG-275	Customer part number	
Specification Description	BlackFPC; Main: RF0.81 fourth generation terminal black coaxial cable, length L=160mm, Aux: RF0.81 fourth generation terminal black coaxial cable, length L=275mm		

Supplier's acknowledgment of signature	Customer acknowledgment of signature
	
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

Document Revision History

Verson	Revised Content	Revused	Approval	Date	Note



Content		
NO.	Project	Page NO.
1	Specification	3
2	WiFi Ant Test Information	4
3	Antenna Placement	5
4	Test Data	6~~8
5	Antenna Assembly	9~~10
6	Notes	11



Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi
Antenna Form	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	48%@2.4G
Peak Gain	1.47dBi@2.4G

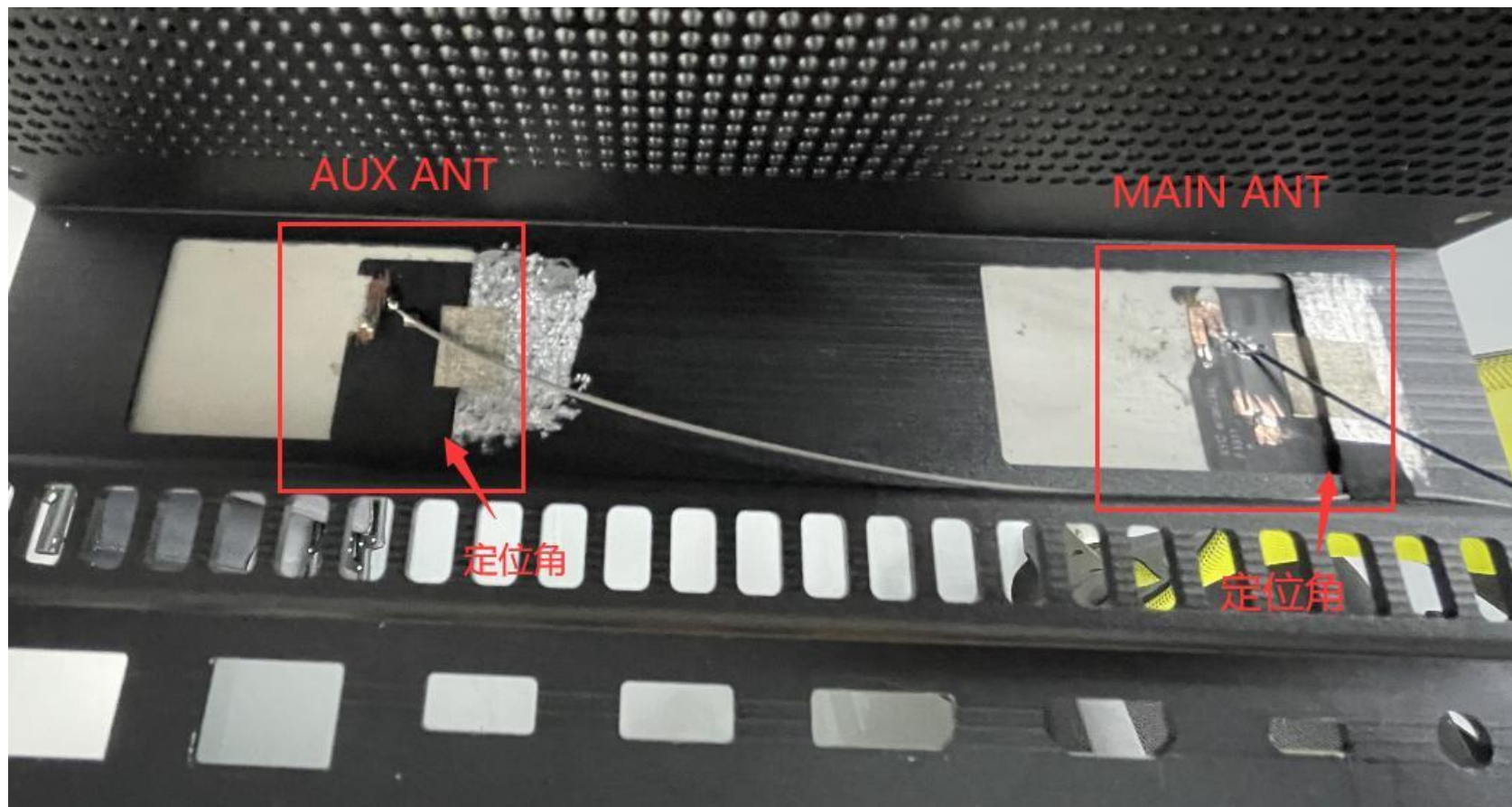
1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C~+60°C
Storage Temp	-10°C~+70°C
Humidity	10~95%RH

WiFi Ant Test Information

Frequency	2.4G (2402~2483)Mhz
Module information	
Driver version information	

Antenna Placement





Test Data

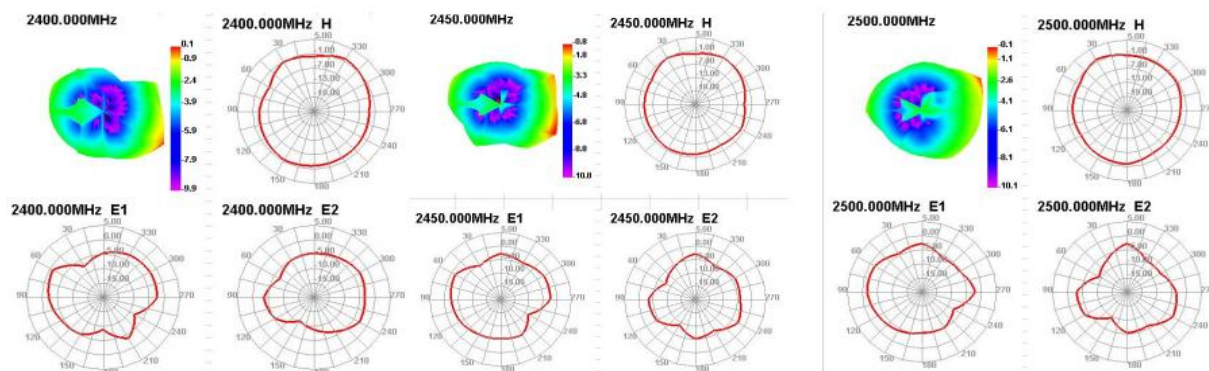
Efficiency Table (ANT1 2.4G)

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
2400	39.33	-4.05	0.05	-2.1	21.318	18.011	0.05	-10.69
2410	37.32	-4.28	-0.08	-2.23	20.171	17.152	-0.08	-10.48
2420	38.69	-4.12	-0.05	-2.2	20.767	17.918	-0.05	-10.12
2430	38.95	-4.09	-0.26	-2.41	20.771	18.182	-0.26	-9.89
2440	39.1	-4.08	-0.49	-2.64	20.816	18.289	-0.49	-9.53
2450	38.95	-4.09	-0.76	-2.91	20.607	18.344	-0.76	-9.72
2460	38.74	-4.12	-1.01	-3.16	20.235	18.502	-1.01	-10.14
2470	39.78	-4	-0.84	-2.99	20.339	19.438	-0.84	-10.01
2480	40.53	-3.92	-0.47	-2.62	20.209	20.318	-0.47	-10.29
2490	40.1	-3.97	-0.1	-2.25	19.531	20.572	-0.1	-11.61
2500	37.26	-4.29	-0.07	-2.22	17.835	19.424	-0.07	-12.35

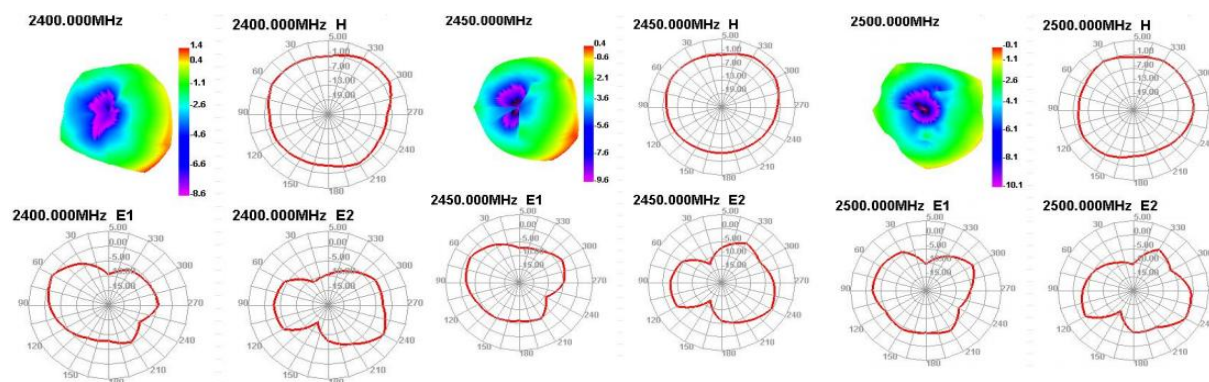
Efficiency Table (ANT2 2.4G)

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
2400	44.44	-3.52	1.44	-0.71	24.857	19.583	1.44	-13.54
2410	42.17	-3.75	1.29	-0.86	23.208	18.957	1.29	-13.73
2420	44.11	-3.56	1.47	-0.68	23.901	20.205	1.47	-14.51
2430	43.45	-3.62	1.26	-0.89	23.271	20.184	1.26	-14.77
2440	44	-3.57	0.96	-1.19	23.236	20.768	0.96	-13.73
2450	43.23	-3.64	0.43	-1.72	22.59	20.637	0.43	-13.4
2460	43.61	-3.6	-0.03	-2.18	22.603	21.006	-0.03	-12.25
2470	45.24	-3.44	0.04	-2.11	23.31	21.932	0.04	-11.76
2480	46.77	-3.3	0.36	-1.79	23.941	22.83	0.36	-11.29
2490	48.02	-3.19	0.5	-1.65	24.447	23.577	0.5	-11.1
2500	42.13	-3.75	-0.06	-2.21	21.402	20.724	-0.06	-11.85

Radiation Pattern(ANT1)



Radiation Pattern(ANT2)

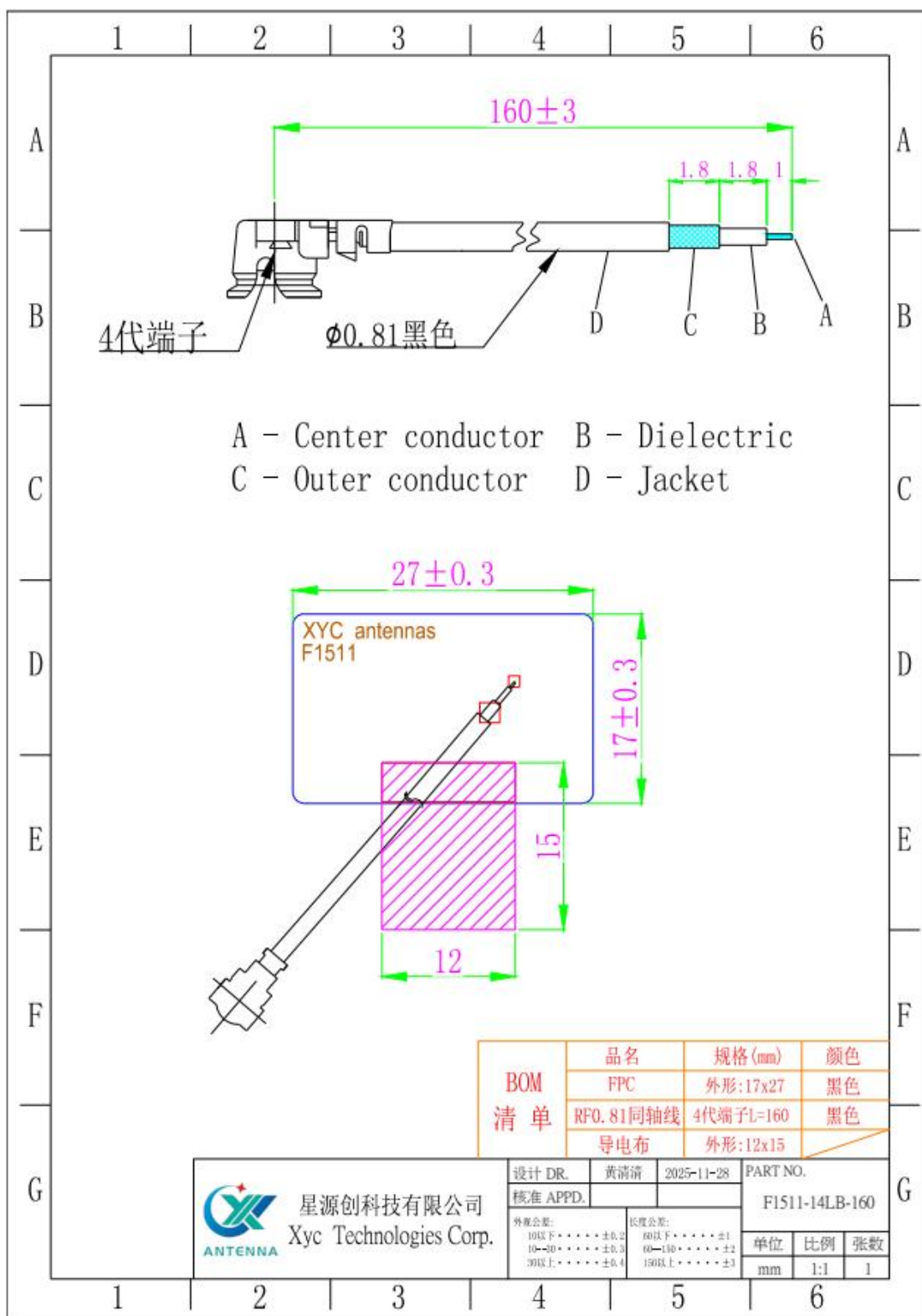


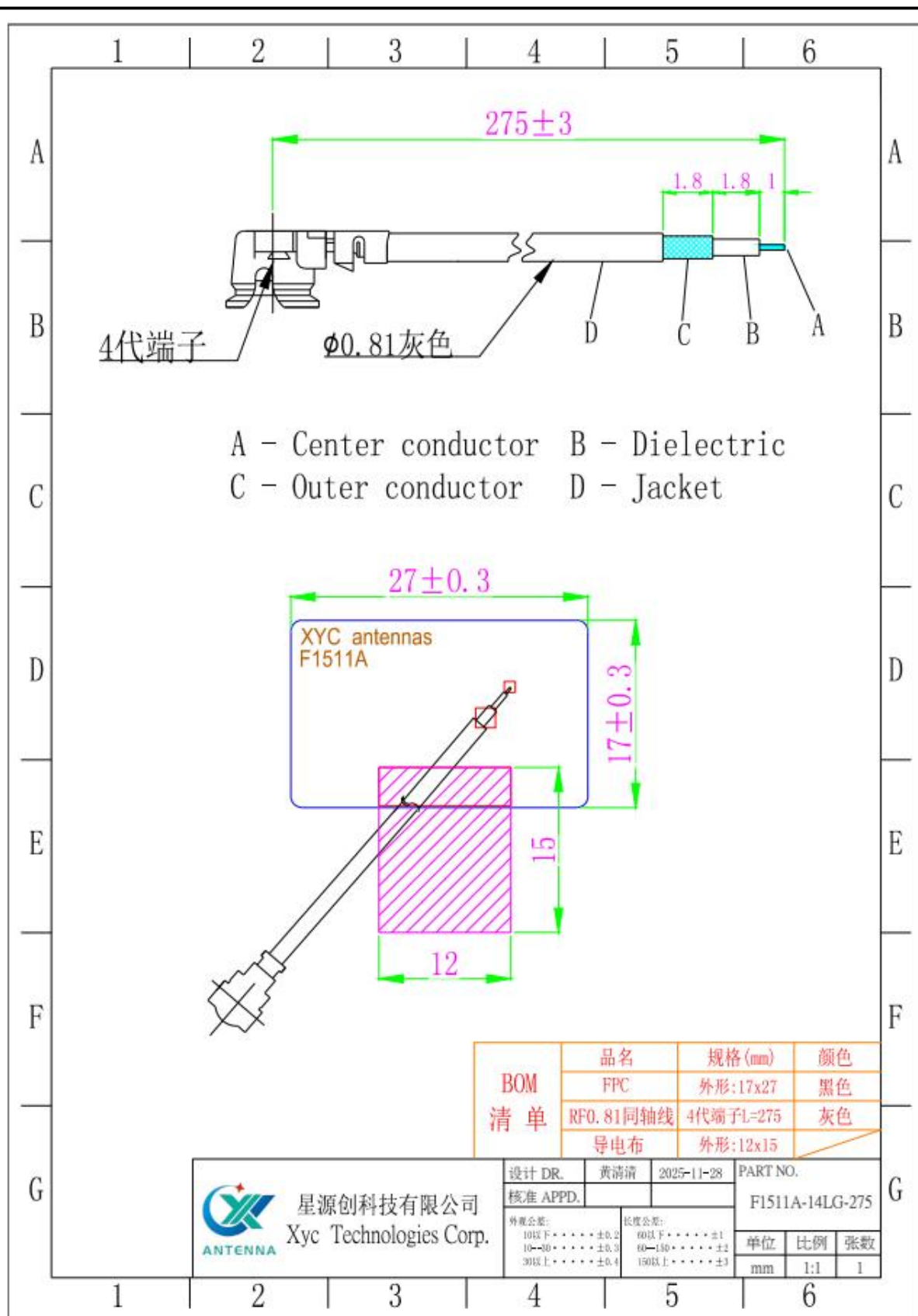


WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	10.21	CH1 11Mbps	-76.62
	2437	CH6 11Mbps	10.81	CH6 11Mbps	-74.21
	2467	CH11 11Mbps	10.41	CH11 11Mbps	-73.46

Antenna Assembly





Notes

