

## SPECIFICATION FOR APPROVAL

DESCRIBE: HY Innovations Co., LTD (T85V0)

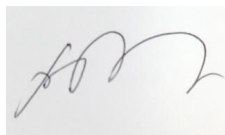
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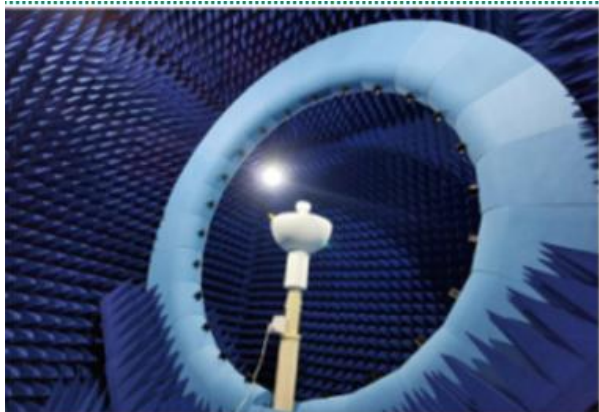
PART NO: ATC1451-HY081B70RA

Antenna type: MCX female joint flange fixed+antenna component

DATE: 2024.11.12

PROVIDER: AT&C Technology (Shenzhen) Co.  
201, Building C, Chuangwei Innovation Valley, No.1 Tangtou Road, Shiyao Street, Bao'an District, Shenzhen, China

Customer Admit	confirm	ID Department	Test department	Structure section	Quality department
Supplier Admit	confirm	confirm	Proofreading	To examine	Approval
		ziyehui	yangguochang	Xuliying	



We have RF equipments as below

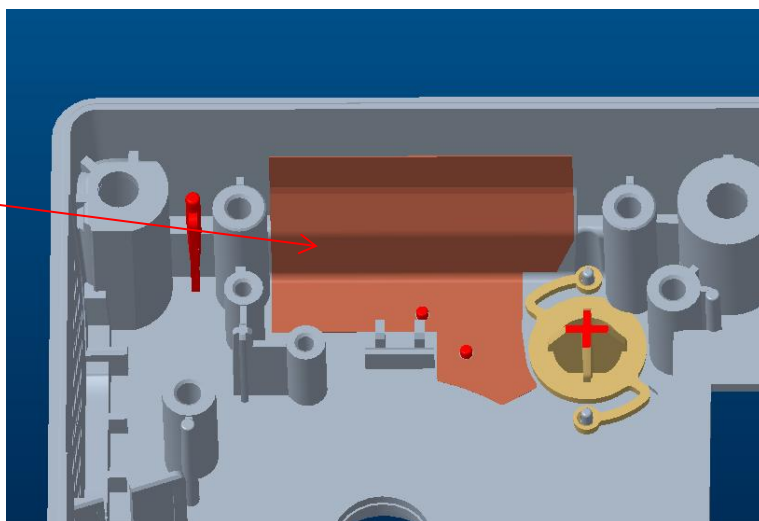
### Anechoic Chambe

- Satimo 1ea
- SY24 1ea
- SAR 1ea
- KSS 2ea

### Measurement

- 2G, 3G, 4G
- GPS
- Wifi
- Bluetooth(3.0) OTA
- NFC & WPC

WIFI ANT





# BOM

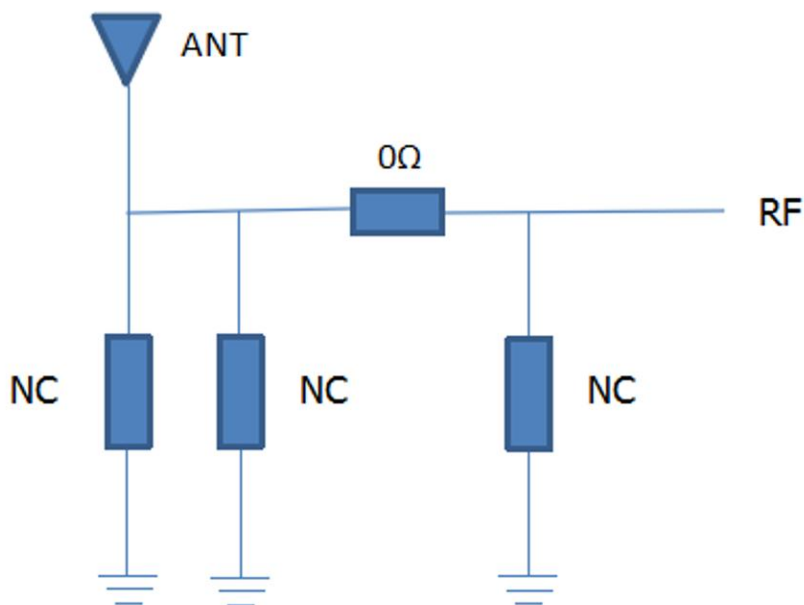
Customer	HY	Written By	ZYH	Orig. Date	2024.11.12
Part Number	ATC1451-HY081B70RA	Revised By	SHIN	Revised Date	2024.11.12
Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2024.11.12

Customer P/N	Part P/N	Part Name	Part description
	ATC1451-HY081B70RA	WIFI Ant	FPC matte black/black wire length 40mm with MCX female connector

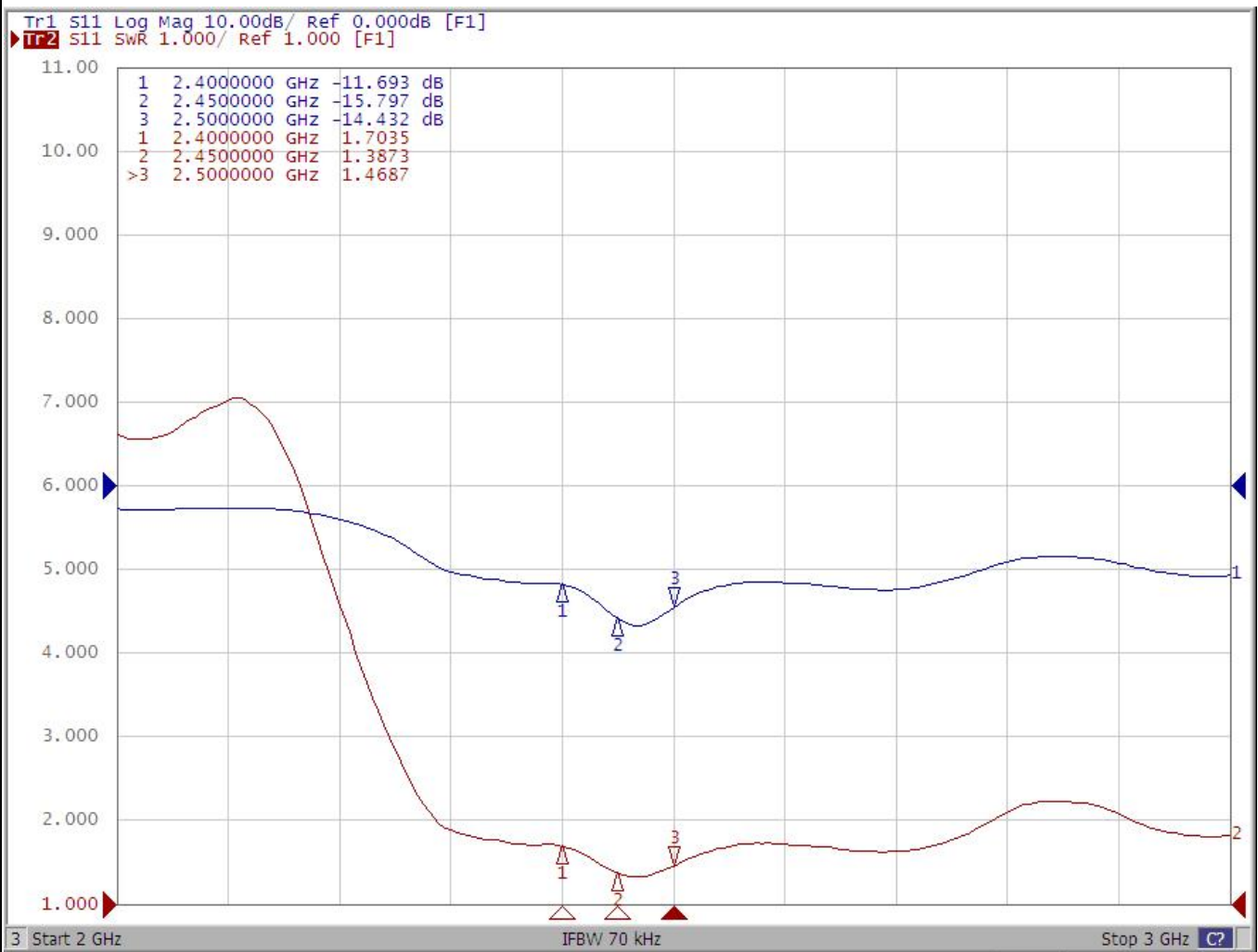
# Impedance Matching

Customer	HY	Written By	ZYH	Orig. Date	2024.11.12
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Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2024.11.12

## 1. No changes made



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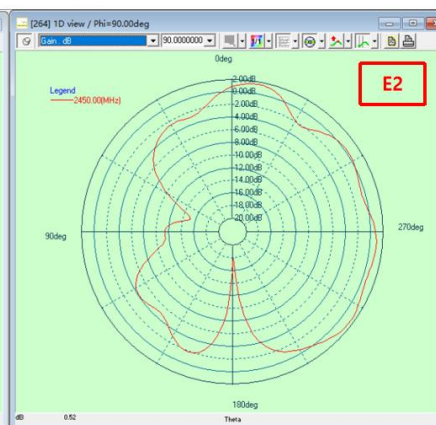
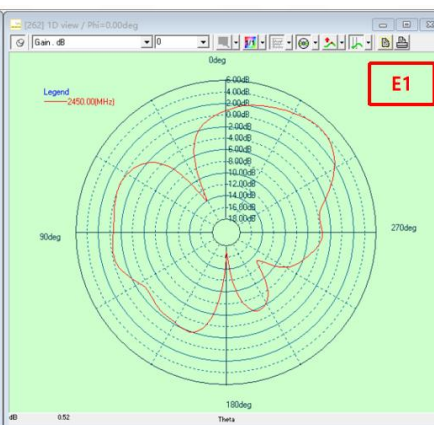
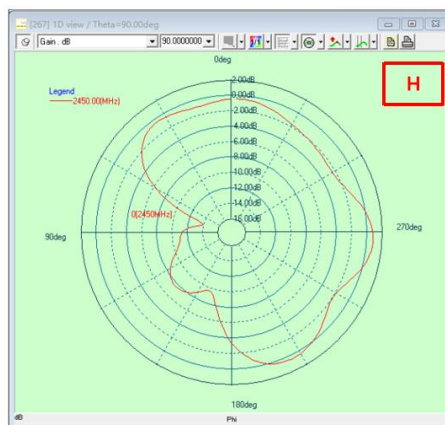
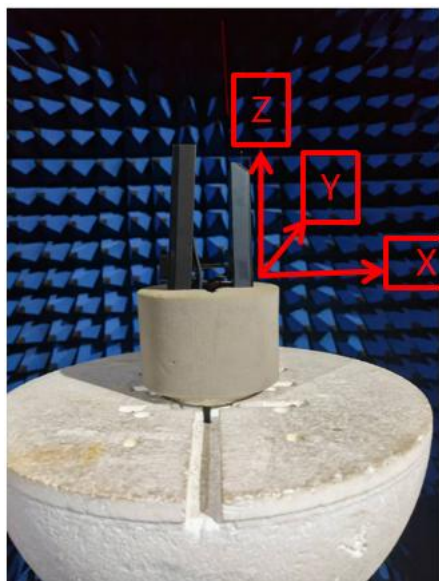
## Antenna \*Efficiency

Customer	HY	Written By	ZYH	Orig. Date	2024.11.12
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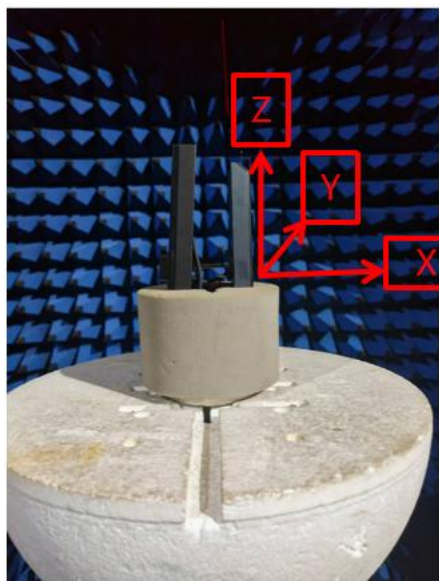
### (2.4G) Passive Test Results

Frequency	Efficiency	Gain. dBi
2400	61%	3.66
2410	62%	3.51
2420	62%	3.62
2430	62%	3.54
2440	61%	3.67
2450	62%	3.60
2460	63%	3.63
2470	63%	3.57
2480	64%	3.59
2490	64%	3.61
2500	63%	3.64

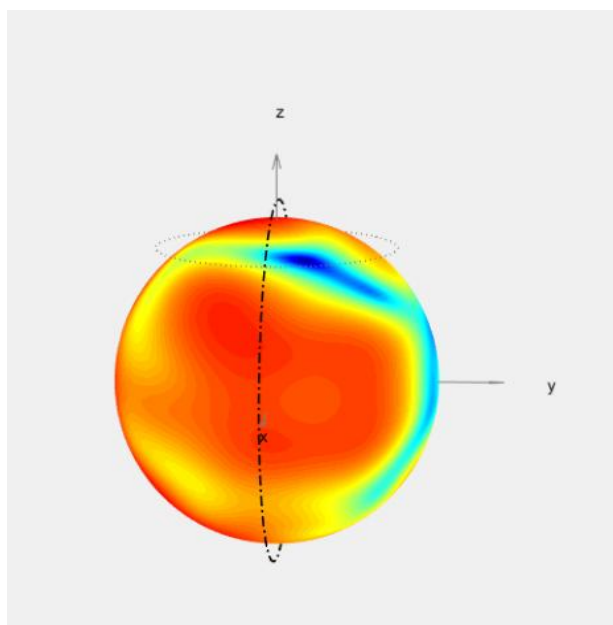
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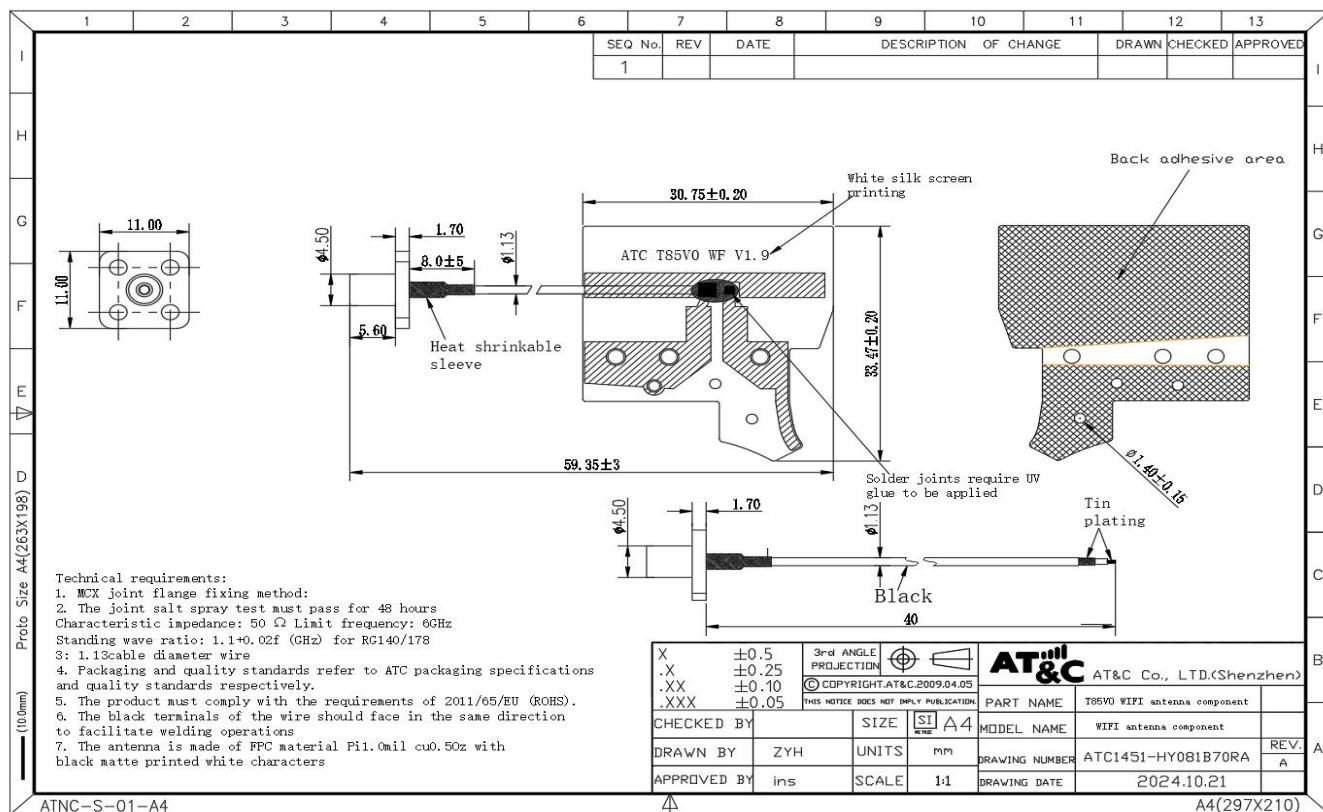


**2450MHZ**





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Size information					Measuring sample			% Tolerance		Handling opinions			
number	Dimension property	Dimension	Lower tolerance	Upper tolerance	1	2	3	Upper	Lower	determine	Supplier review comments	Customer review comments	Measuring tool
1	key point	30.75	-0.2	0.2	30.78	30.8	30.76			PASS			PJ
2	key point	33.47	-0.2	0.2	33.48	33.50	33.45			PASS			PJ
3	key point	59.35	-3	3	59.5	56	59.5			PASS			PJ



Salt spray test report

Customer Name	HY (T85V0)	Specification and	ATC1451-HY081B70RA
Sample situation	Sample quantity: 3PCS		
	Substrate: PI		Coating: Au
Test start and end time	48 hours from 10:00 on July 9, 2024 to 10:00 on July 11, 2024		
Test type	<input checked="" type="checkbox"/> NSS	<input type="checkbox"/> ASS	<input type="checkbox"/> CASS
Test conditions	Salt solution ratio: 5% ± 1%		PH:6.5~7.2
	Temperature inside the box: 35 ° C		Relative humidity: 85% ± 2%
	Spray mode: <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Compressed air pressure: 1kg/cm <sup>2</sup>
	Spray volume: 1.0 ~ 2.0ML/80CM2/H		Test object placement angle: 30 degrees+/-10 degrees
	Test cycle: __ cycles		Spray time: 48 h Placement time: 2 hours
Judgment criteria	Appearance: intact and undamaged, with no significant changes. Coating: No oxidation, rust, discoloration, or corrosion spots. Screen printing: No shedding or bubbles.		
Test results	Appearance after test: The appearance is intact and undamaged, with no significant changes. Coating: No peeling or rusting Surface spraying and screen printing: no peeling or bubbles.		

Explanation:

1. The salt spray test operation standard shall be executed in accordance with the national standard GB/T2423.1 7-2008 of the People's Republic of China
2. The criteria for determining test specimen results shall be in accordance with the national standard GB/T6461-02 of the People's Republic of China

Tester: Zhang Luo

Reviewed by: Liang Houbo

## Packaging method

PE bag packaging, product emission neat, uniform quantity



Picture: Outer box "I" seal, QC PASS seal on the left side of the outer box, sealed without exposure.



### PART LIST

The packing drawing is schematic diagram, which does not mean that the picture is the actual product and the actual shipment is the standard.

NO	DESCRIPTION	Q'TY	MATERIAL	REMARKS	REV.
1	ANTENNA	1/1000		N/A	A
2	PAD OUT	1/4	SW A골 5T	N/A	A
4	CARTOON BOX	-	SW A골 5T	N/A	A
5	PACKING TAPE	-	PP	N/A	A