

Specification for Approval

Anker PN	: V8260-WIFI antenna
Vendor's PN	: ATC1462-HY088B70RA
Approval Date	: 2025.03.10

Vendor' s Approv ed by	PMVendor PM	AnkerRD signatur e	AnkerSQE Signatu re

SPECIFICATION FOR APPROVAL

DESCRIBE: Anker Innovations Co., LTD (T8171)

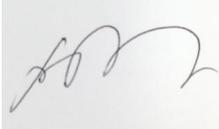
Customer NO: _____

PART NO: ATC1462-HY088B70RA

Antenna type: 2.4G/5.8G WIFI-Ant FPC +Cable(Black)

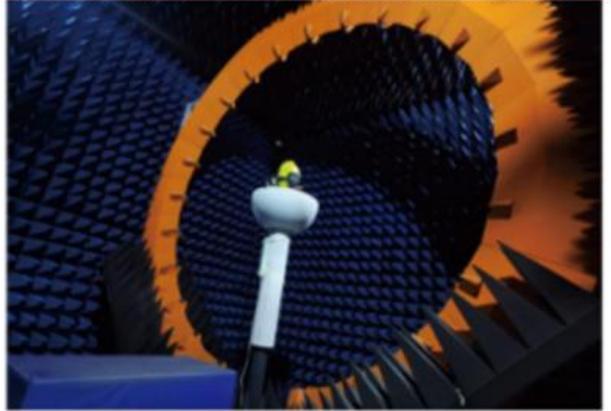
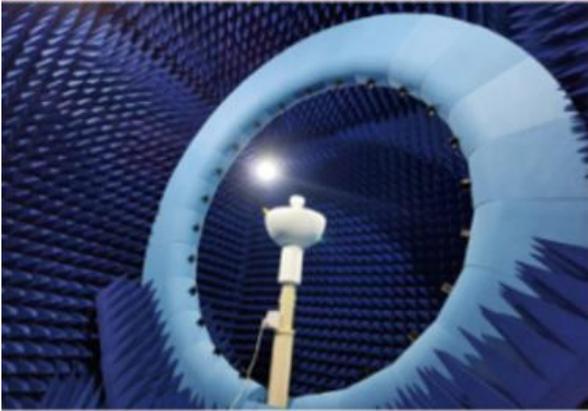
DATE: 2025.03.10

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

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

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- 一、 Revision History
- 二、 Test equipment
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- 九、 Full Size Test Report/CPK Report
- 十、 Rohs Report
- 十一、 Reliability Report
- 十三、 process flowchart
- 十四、 Package Drawing



We have RF equipments as below

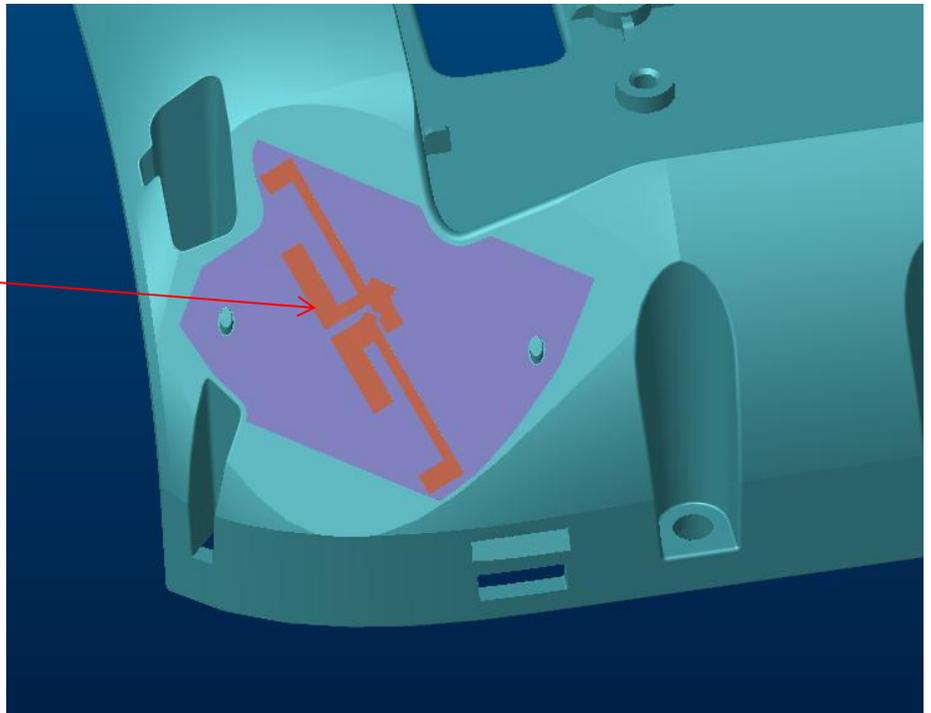
Anechoic Chambe

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

Measurement

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

WIFI antenna





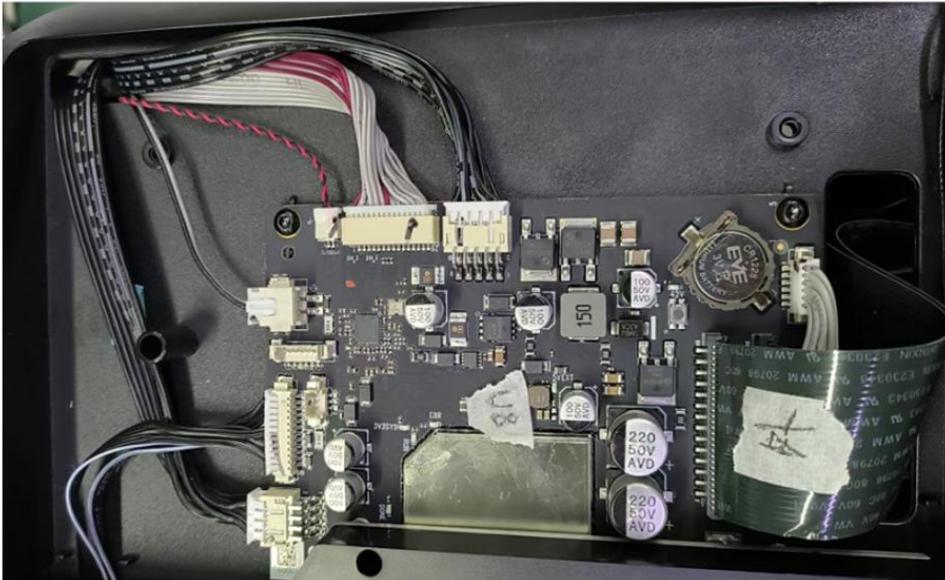
BOM

Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
Part Number	ATC1462-HY088B70RA	Revised By	SHIN	Revised Date	2025.03.10
Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10

Customer number	ATC number	Part name
	ATC1462-HY088B70RA	40.8*29*0.12, PI+CU, Black low loss wire, wire diameter 1.37, wire length 252mm, equipped with first generation terminals

Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
Part Number	ATC1462-HY088B70RA	Revised By	SHIN	Revised Date	2025.03.10
Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10

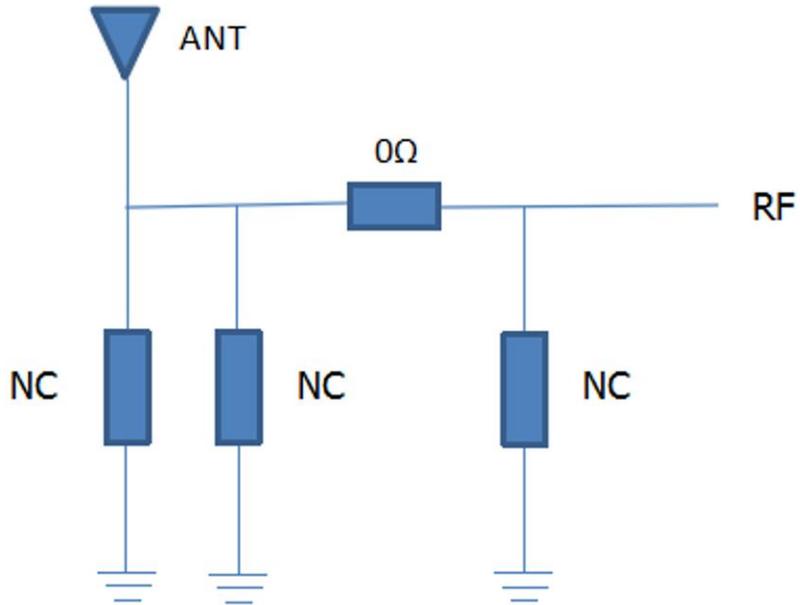
1. All kinds of cables should be kept away from the antenna.



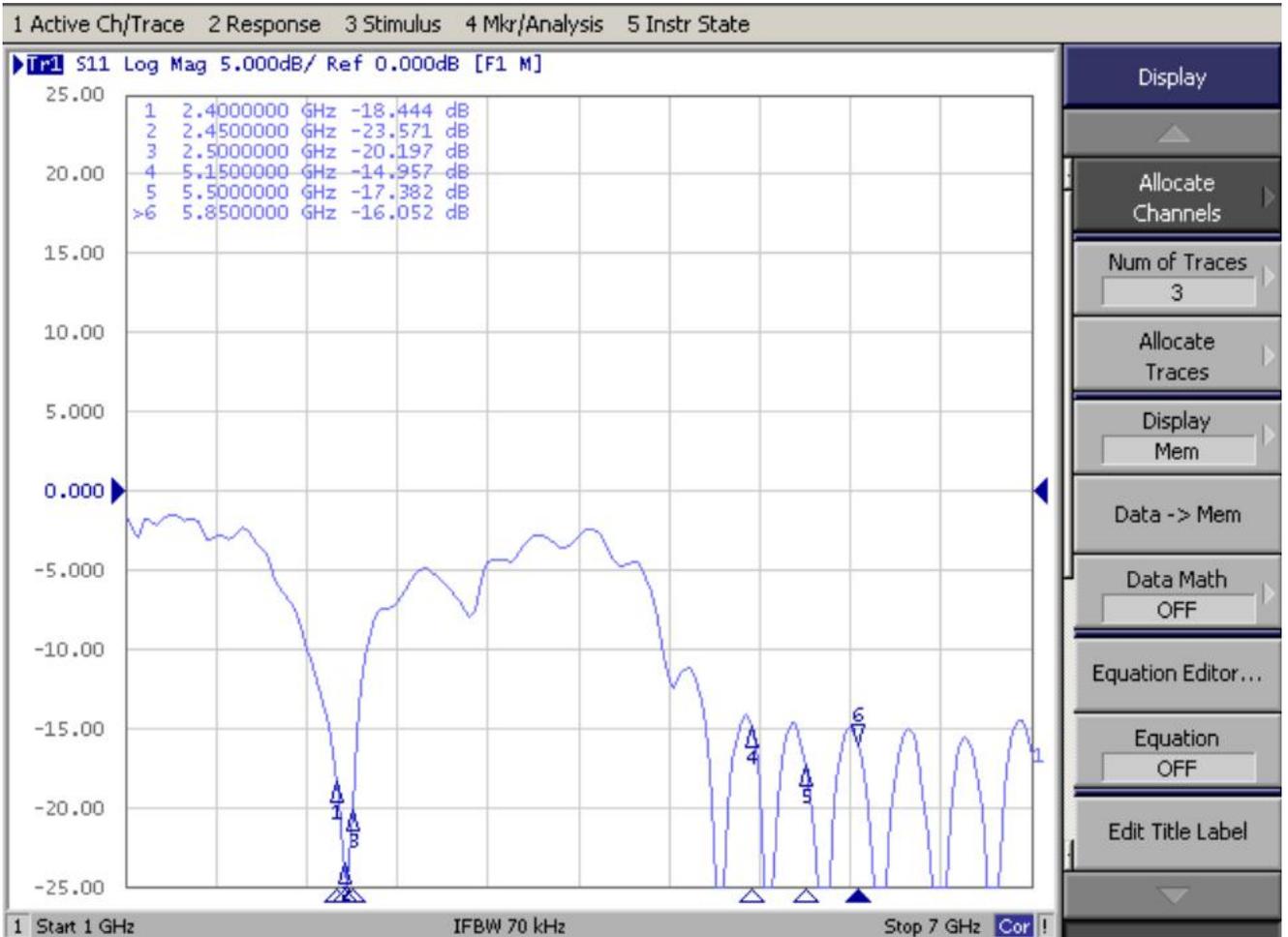
Impedance Matching

Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
Part Number	ATC1462-HY088B70RA	Revised By	SHIN	Revised Date	2025.03.10
Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10

1. No changes made



Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
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Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10





Antenna *Efficiency

Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
Part Number	ATC1462-HY088B70RA	Revised By	SHIN	Revised Date	2025.03.10
Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10

(2.4G) Passive Test Results

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max Gain (dBi)
2400	50.47%	-2.97	3.63
2410	51.50%	-2.88	2.80
2420	52.45%	-2.80	2.90
2430	50.16%	-3.00	2.92
2440	51.08%	-2.92	3.20
2450	51.19%	-2.91	3.39
2460	51.08%	-2.92	3.52
2470	50.95%	-2.93	3.46
2480	50.16%	-3.00	3.62
2490	50.26%	-2.99	3.90
2500	49.85%	-3.02	3.81
AVG:	50.83%	-2.94	3.38



Antenna *Efficiency

Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
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Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10

(5G) Passive Test Results

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max Gain (dBi)
5150	40.84%	-3.89	3.57
5200	42.69%	-3.70	3.80
5250	44.15%	-3.55	3.57
5300	43.95%	-3.57	2.93
5350	44.45%	-3.52	2.85
5400	40.54%	-3.92	2.27
5450	41.83%	-3.79	2.71
5500	41.31%	-3.84	3.20
5550	42.76%	-3.69	3.39
5600	44.35%	-3.53	3.96
5650	41.64%	-3.80	3.26
5700	41.93%	-3.77	3.37
5750	40.99%	-3.87	2.90
5800	43.95%	-3.57	3.10
5850	41.55%	-3.81	3.41
AVG:	42.46%	-3.72	3.22

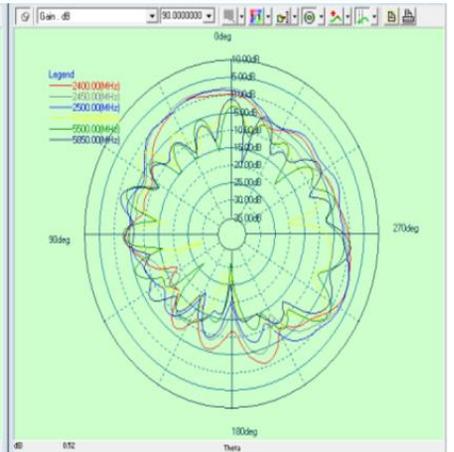
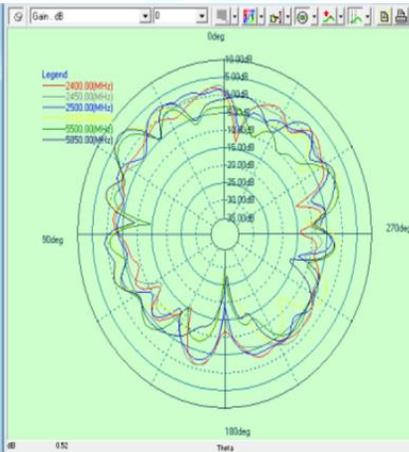
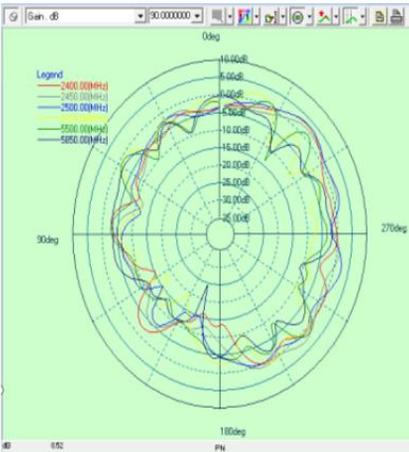
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Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10



H

E1

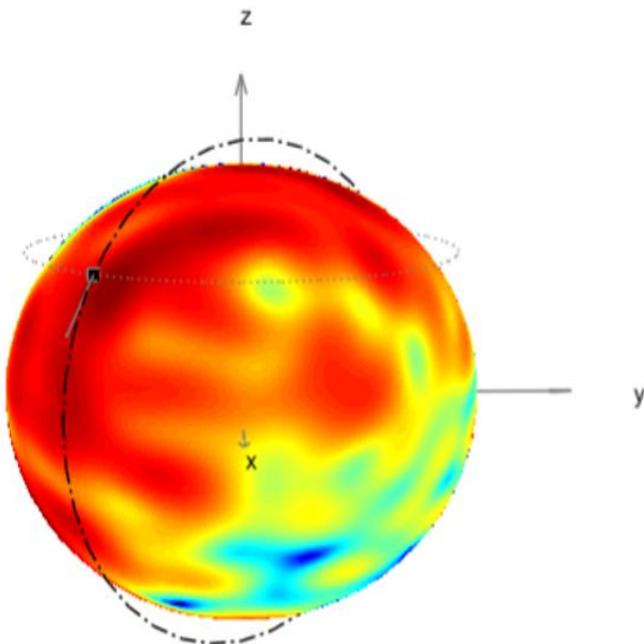
E2



Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
Part Number	ATC1462-HY088B70RA	Revised By	SHIN	Revised Date	2025.03.10
Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10



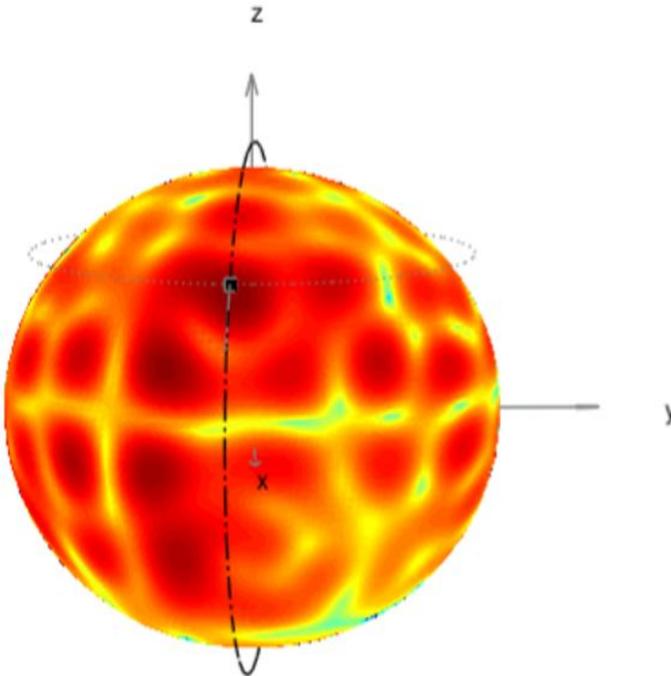
2450MHz



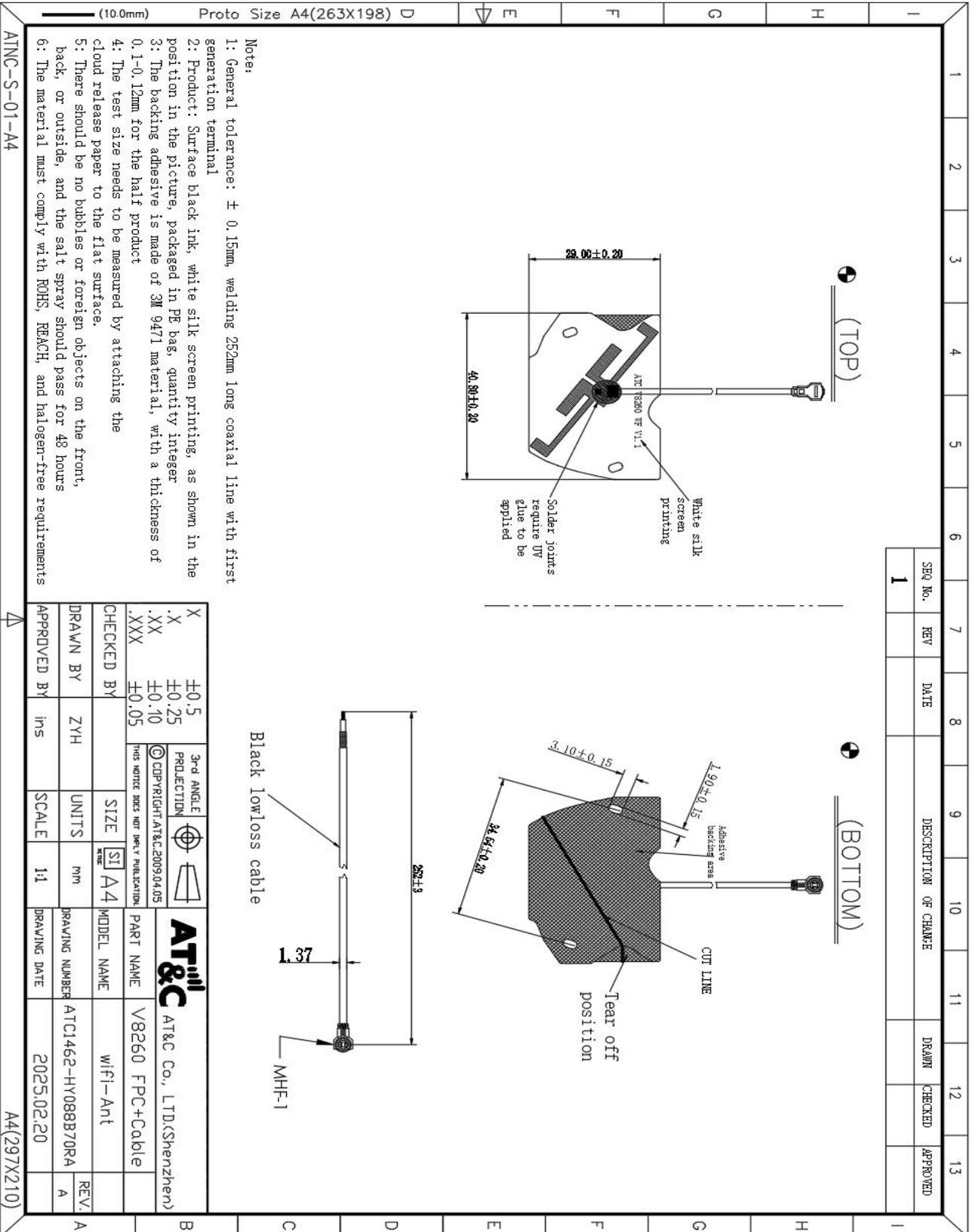
Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
Part Number	ATC1462-HY088B70RA	Revised By	SHIN	Revised Date	2025.03.10
Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10



5500MHz



Ant Draw



SEQ No.	REV	DATE	DESCRIPTION OF CHANGE	DRAWN	CHECKED	APPROVED
1						

- Note:
- 1: General tolerance: $\pm 0.15\text{mm}$, welding 252mm long coaxial line with first generation terminal
 - 2: Product: Surface black ink, white silk screen printing, as shown in the position in the picture, packaged in PE bag, quantity integer
 - 3: The backing adhesive is made of 3M 9471 material, with a thickness of 0.1-0.12mm for the half product
 - 4: The test size needs to be measured by attaching the cloud release paper to the flat surface.
 - 5: There should be no bubbles or foreign objects on the front, back, or outside, and the salt spray should pass for 48 hours
 - 6: The material must comply with ROHS, REACH, and halogen-free requirements

X	± 0.5	3rd ANGLE PROJECTION		PART NAME		AT&C AT&C Co., LTD.(Shenzhen)	
.X	± 0.25		© COPYRIGHT AT&C 2009/04/05	PRT NAME		V8260 FPCC+ Cable	
.XX	± 0.10	THIS NOTE DOES NOT IMPLY PUBLICATION		MODEL NAME		wifi-Ant	
.XXX	± 0.05	SIZE	SI	DRAWING NUMBER		ATC1462-HY088B70RA	
CHECKED BY		UNITS	mm	DRAWING DATE		2025.02.20	
DRAWN BY	ZYH	SCALE	1:1	REV.		A	
APPROVED BY	ins						

ATNC-S-01-A4

A4(297X210)



Full Size Test Report

Customer	Anker	Written By	ZYH	Orig. Date	2025.03.10
Part Number	ATC1462-HY088B70RA	Revised By	SHIN	Revised Date	2025.03.10
Description	WIFI ANT	Approved By	HJ	Approved Date	2025.03.10

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	40.8	-0.2	0.2	40.85	40.82	40.76			PASS			PJ
2	key point	29	-0.2	0.2	29.03	28.96	29.05			PASS			PJ
3	key point	252	-3	3	252.5	252	253			PASS			PJ



CPK Report

Part Number	ATC1462-HY088B708A		Vendor	ATC	
Description	V8260 ANT ASM		Inspected		
Tool Number			Inches/MM	MM	
Cavity			Material Nam		
			Material Code		
Revision	RA		Date	2025-03-10	
Dim. Designator	1	2	3	4	5
Nominal	40.80	29.00	252.00		
+ Tolerance	0.20	0.20	3.00		
- Tolerance	-0.20	-0.20	-3.00		
Upper Limit	41.00	29.20	255.00		
Lower Limit	40.60	28.80	249.00		
1	40.82	29.02	252.30		
2	40.88	29.08	253.20		
3	40.76	28.96	251.40		
4	40.84	29.04	252.60		
5	40.78	28.98	251.70		
6	40.84	29.04	252.60		
7	40.88	29.08	253.20		
8	40.72	28.92	250.80		
9	40.84	29.04	252.60		
10	40.80	29.00	252.00		
11	40.78	28.98	251.70		
12	40.76	28.96	251.40		
13	40.74	28.94	251.10		
14	40.82	29.02	252.30		
15	40.84	29.04	252.60		
16	40.76	28.96	251.40		
17	40.84	29.04	252.60		
18	40.78	28.98	251.70		
19	40.84	29.04	252.60		
20	40.86	29.06	252.90		
21	40.72	28.92	250.80		
22	40.84	29.04	252.60		
23	40.80	29.00	252.00		
24	40.78	28.98	251.70		
25	40.76	28.96	251.40		
26	40.74	28.94	251.10		
27	40.74	28.94	251.10		
28	40.84	29.04	252.60		
29	40.80	29.00	252.00		
30	40.78	29.00	251.70		
31	40.76	28.96	251.40		
32	40.80	28.94	251.10		
MAX.	40.88	29.08	253.20	0.00	0.00
MIN.	40.72	28.92	250.80	0.00	0.00
AVERAGE	40.80	29.00	251.94	#DIV/0!	#DIV/0!
STDEV	0.05	0.05	0.70	#DIV/0!	#DIV/0!
CP	1.47	1.44	1.44	#DIV/0!	#DIV/0!
Cpk	1.46	1.42	1.41	#DIV/0!	#DIV/0!
TOOLING(测量工具)	二次元	二次元	二次元	二次元	二次元

tabulation: Liang juan jiao approve: Pengguangliang



Salt spray test report

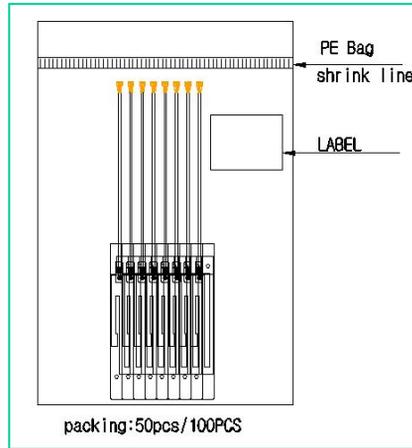
Customer Name	Anker (V8260)	Specification and	ATC1462-HY088B70RA
Sample situation	Sample quantity: 3PCS		
	Substrate: PI		Coating: OSP
Test start and end time	March 2, 2025 10:00 to March 4, 2025 10:00 48 hours		
Test type	<input checked="" type="checkbox"/> NSS	<input type="checkbox"/> ASS	<input type="checkbox"/> 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 ²
	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.		
<p>Explanation:</p> <p>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</p> <p>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</p>			
Tester: Zhang Luo		Reviewed by: Liang Houbo	

V8260 Antenna Component Production Process Flow

No	Process Name	Using equipment, fixtures, and tooling	Inspection items	Control factor	Reference standards	Inspection frequency
1	FPC incoming materials	Anime or caliper	critical dimension		Reference drawings	1
			Common appearance defects of FPC components		Refer to relevant inspection standards	AQL0.65
			Peel off of adhesive backing		≥5Kg/f	2
			Material model, RoHS compliance		Reference drawings	Once
2	Same axis incoming material	Anime or caliper	critical dimension		Reference drawings	1
			Common appearance defects of coaxial components		Refer to relevant inspection standards	AQL0.65
			Wire head welding		Easy to weld, no oxidation, poor welding quality, etc	2
			Material model, RoHS compliance		Reference drawings	Once
3	Coaxial welding	Soldering iron, tin wire	Soldering iron welding	welding temperature	320±10°C	1
			Welding appearance		Do not short-circuit, solder, or burn the wire skin	100% self inspection
					No false welding or virtual welding allowed	100% self inspection
			Solder joints cannot have less solder, and more solder (solder joints are large)	100% self inspection		
4	Point UV glue	UV lamp	Glue appearance		No leakage point, not dried up	100% self inspection
5	Network segmentation testing	network analyzer Test fixture	Test waveform compliance	Network segmentation parameters	The waveform parameters of the product test are consistent with the set waveform parameters, and if "PASS" is displayed, it is considered qualified	100%
6	100% visual inspection And packaging	Carton, pallet, label, to be packaged finished product	appearance		Refer to Phoebe antenna inspection specifications	100%
			Packaging quantity		Reference packaging guidance	100%
			Correct labeling		Correct product name, quantity, and related information	Once
7	OQC shipment inspection	Anime/caliper	Key dimensions and positional accuracy of the antenna		Refer to product drawings	Once
			Coating thickness and adhesion report		Refer to product drawings and Phoebe antenna inspection specifications	Once
		3M adhesive	Coaxial Pulling Force Test		Reference Product Pulling Force Test Standard	Once
			Salt spray test		Reference product salt spray testing standard	Monthly/time
			Antenna appearance, packaging, and labeling		Refer to Phoebe antenna inspection specifications	AQL0.65

Packaging method

PE bag packaging, product emission neat, uniform quantity



PART LIST

*The packaging diagram is a schematic diagram and does not represent the actual product

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