

SPECIFICATION FOR APPROVAL

DESCRIBE: JENESIS (SHEN ZHEN) CO., LTD (PTS2P)

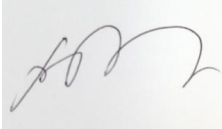
Customer NO: 14-008-0144

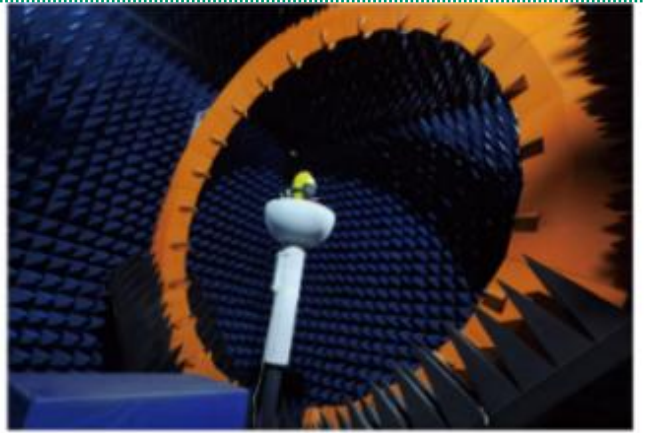
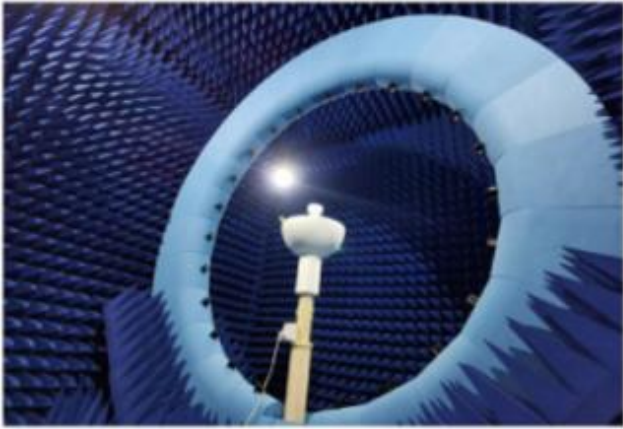
PART NO: ATC1427-CS012B03RA

Antenna type: WIFI/BT FPC-ANT

DATE: 2024. 05. 30

PROVIDER: AT&C TECHNOLOGIES(SHENZHEN) CO. LTD

		ID Department	Test department	Structure section	Quality department
Customer Admit	confirm				
Supplier Admit	confirm	confirm	Proofreading	To examine	Approval
	confirm	Ziyehui	Mo Zhenwen	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



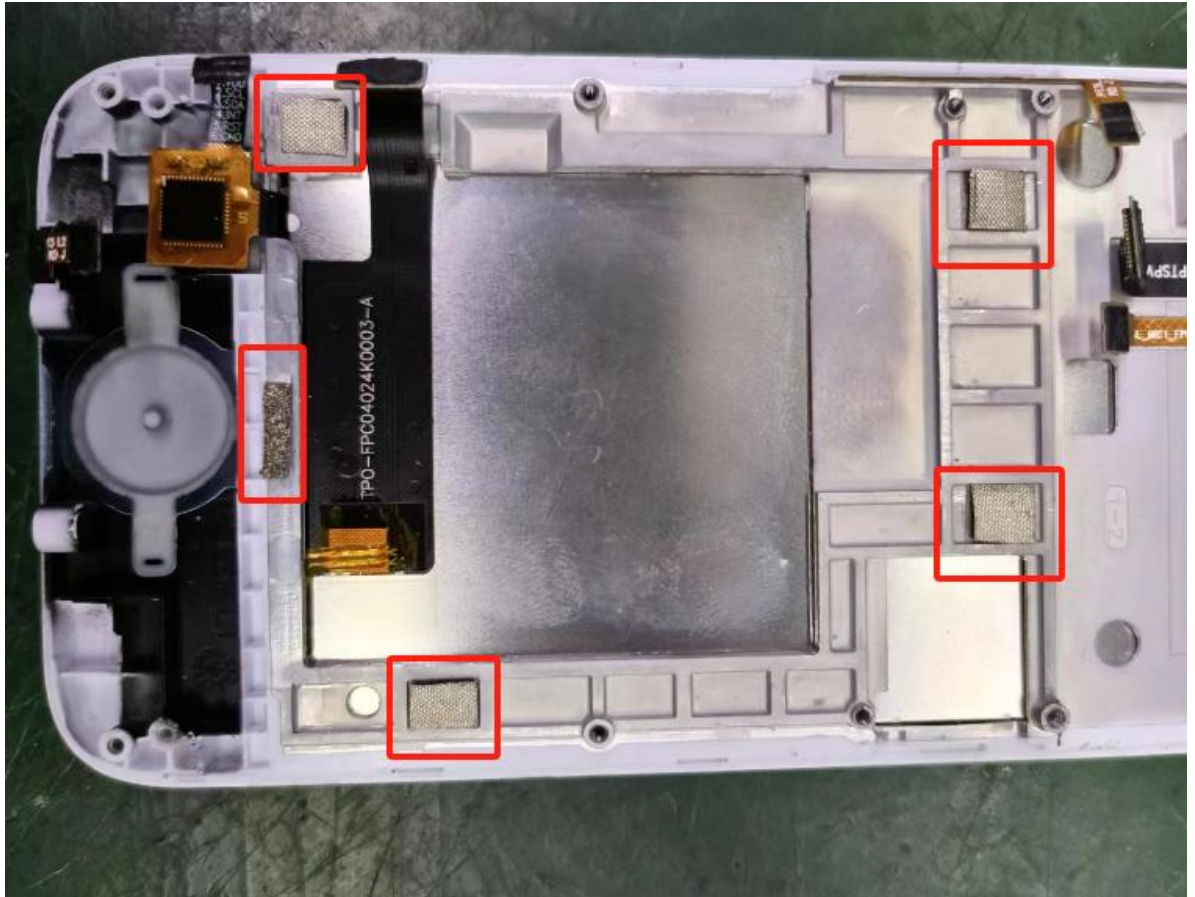
WIFI/BT ANT

BOM

Customer	JENESIS	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1427-CS012B03RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI/BT ANT	Approved By	HJ	Approved Date	2024.05.30

Customer P/N	Part P/N	Part Name	Part description
14-008-0142	ATC1427-CS012B01RA	LTE ANT	57.5*16.06*0.12mm PI+ CU Black
14-008-0143	ATC1427-CS012B02RA	DIV ANT	35.95*5.11*0.12 PI+CU Black
14-008-0144	ATC1427-CS012B03RA	WIFI/BT ANT	28.1*10.09*0.12mm PI+C U Black

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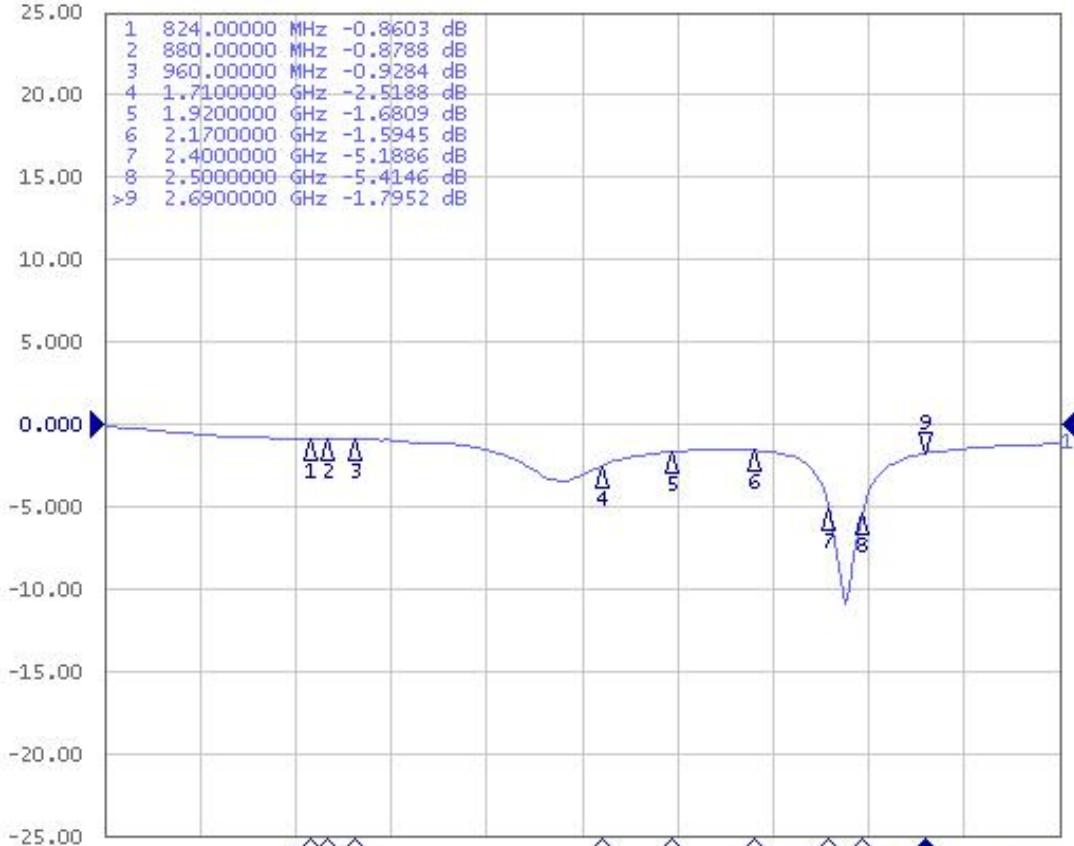
1. As shown in the figure, conductive pads need to be pasted at these five positions to ground the middle frame to the PCBA; And ensure good contact between the screen frame and the center frame.

WiFi/BT Antenna S11/SWR

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1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]



1 Start 200 MHz IFBW 70 kHz Stop 3.1 GHz C?

Display

Allocate Channels

Num of Traces 3

Allocate Traces

Display Mem

Data -> Mem

Data Math OFF

Equation Editor ...

Equation OFF

Edit Title Label



WIFI/BT Antenna *Efficiency

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(2.4G) Passive Test Results

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max Gain (dBi)
2400	21.53%	-6.67	-0.76
2410	23.01%	-6.38	-0.63
2420	23.82%	-6.23	-0.64
2430	24.77%	-6.06	0.02
2440	24.15%	-6.17	0.00
2450	25.35%	-5.96	0.55
2460	25.12%	-6.00	0.42
2470	25.18%	-5.99	0.53
2480	24.27%	-6.15	0.03
2490	23.39%	-6.31	-0.22
2500	21.04%	-6.77	-0.41
AVG:	23.78%	-6.24	-0.10



WIFI/BT Antenna *Efficiency

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(5G) PassiveTestResults

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max Gain (dBi)
5150	21.73%	-6.63	2.07
5200	20.32%	-6.92	1.36
5250	19.41%	-7.12	1.30
5300	18.97%	-7.22	1.11
5350	19.77%	-7.04	1.24
5400	19.72%	-7.05	1.24
5450	20.99%	-6.78	1.33
5500	22.91%	-6.40	2.08
5550	24.60%	-6.09	2.10
5600	26.67%	-5.74	2.54
5650	27.67%	-5.58	2.77
5700	28.05%	-5.52	2.81
5750	25.47%	-5.94	2.26
5800	20.37%	-6.91	1.18
5850	19.94%	-7.00	0.61
AVG:	22.44%	-6.53	1.73



WIFI/BT ActiveTestResults

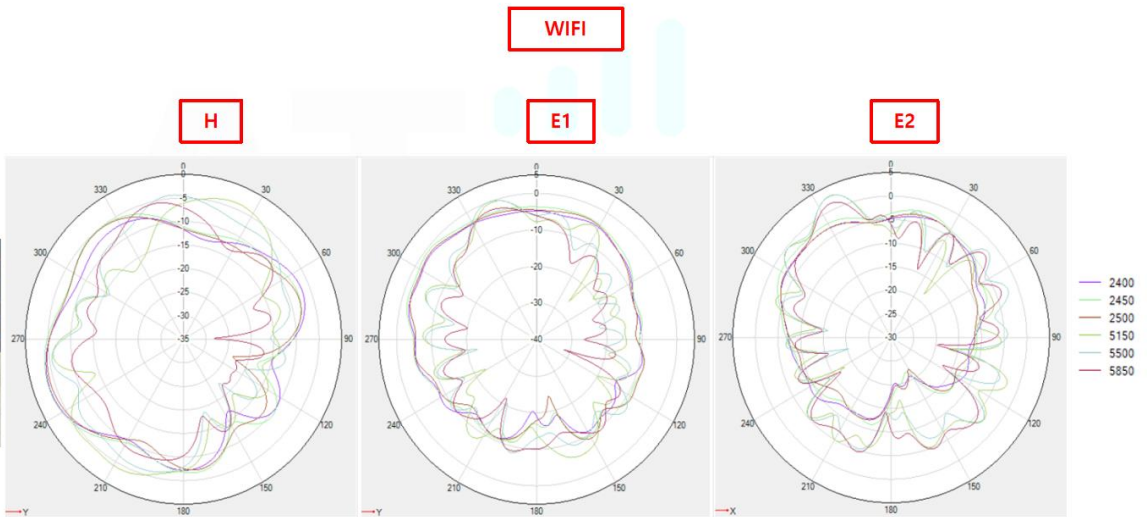
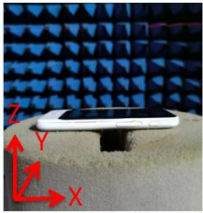
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Description	WIFI/BT ANT	Approved By	HJ	Approved Date	2024.05.30

WIFI ActiveTestResults

BAND	CH	TRP	TIS
WIFI-11B/11M	1	13.07	-81.54
	6	13.5	-80.92
	11	13.73	-81.28
WIFI-11A/54M	36	9.21	-69.08
	100	8.47	-69.49
	165	9.02	-67.18

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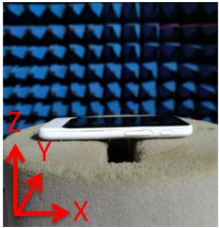
1. Azimuth Pattern H-Plane : "H", X-Y plane
2. Elevation Pattern E1, E2-Plane : "E1", "E2", X-Z plane(E1), Y-Z plane(E2)
3. It is a structure that supplements the distortion of the horizontal plane in the vertical plane and has a gentle sphere shape in three dimensions.



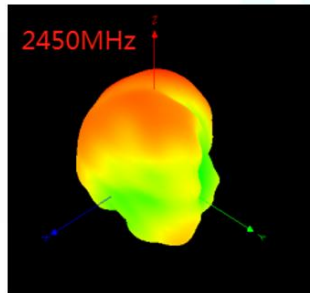
WIFI/BT 3D Radiation Pattern

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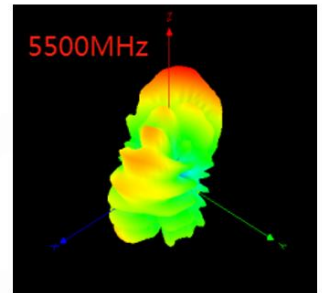
1. This 3D Radiation Pattern shows the response of each angle antenna gain on the sphere.
2. The objects corresponding to the X-Y-Z axes are shown in the left picture.



WIFI 2.4G

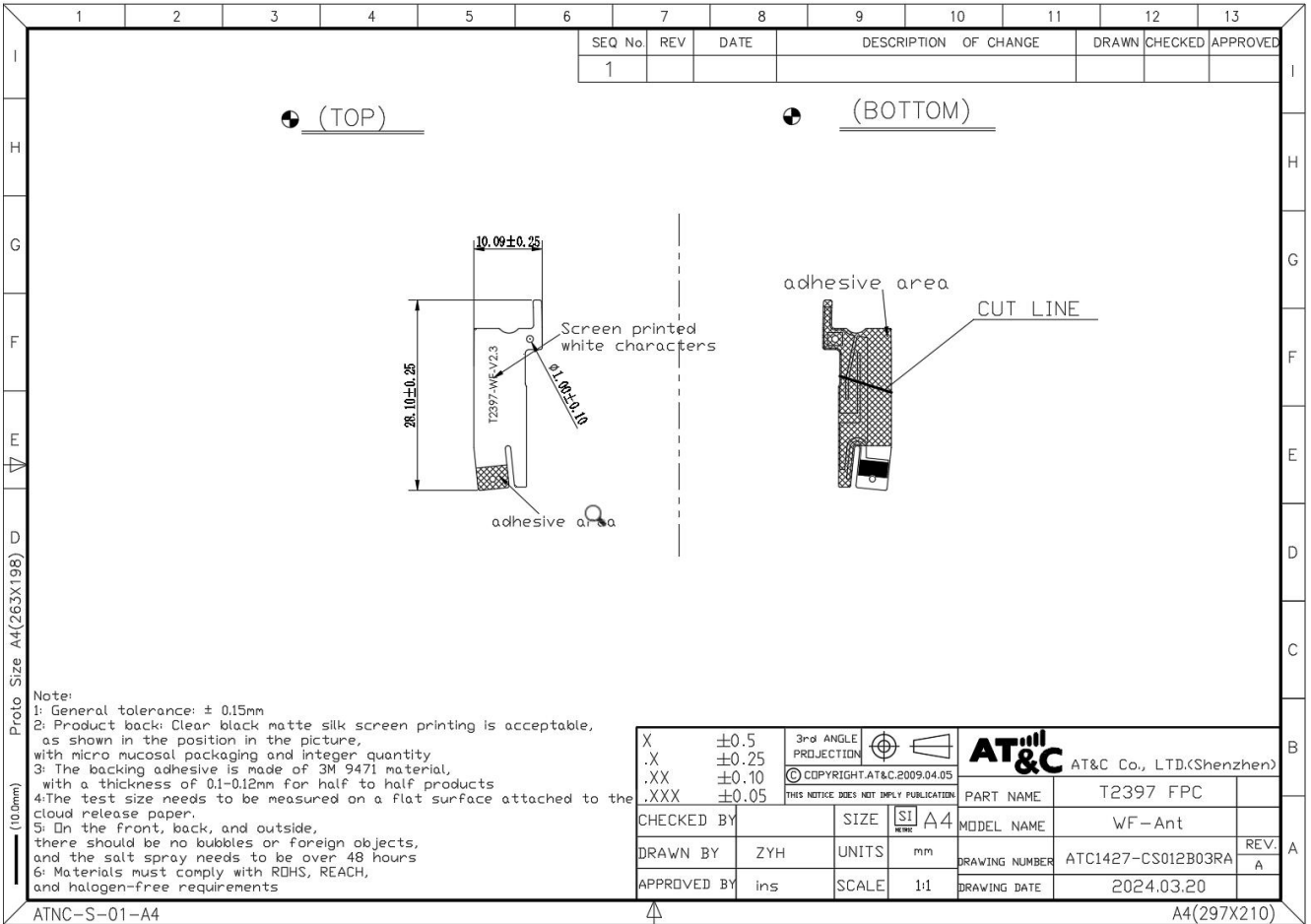


WIFI 5G



WiFi/BT Antenna Draw

Customer	JENESIS	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1427-CS012B02RA	Revised By	SHIN	Revised Date	2024.05.30
Description	DIV ANT	Approved By	HJ	Approved Date	2024.05.30



num ber	Dimen sion property	Dimensi on	Lower toler ance	Upper tol erance	1	2	3	Upper	Lower	determin e	Supplier re view com ments	Customer review co mments	Measuring t ool
1	key point	28.10	-0.25	0.25	28.11	28.07	28.13			PASS			PJ
2	key point	10.09	-0.25	0.25	10.10	10.11	10.06			PASS			PJ
3	key point	1.0	-0.1	0.1	1.02	0.97	0.98			PASS			PJ



Salt spray test report

Customer Name:	JENESIS (PTSZP)	Specification and model:	ATC1427-CS012B03RA
Sample situation:	Sample quantity: 3PCS		
	Substrate: PI	Coating: Gold plating	
Test start and end time:	From 10:00 on April 9th, 2024 to 10:00 on April 11th, 2024, a total of 48 hour		
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.		
Explanation:			
1. The salt spray test operation standard shall be executed in accordance with the national standard GB/T2423.17-2008 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 A콜 5T	N/A	A
4	CARTOON BOX	-	SW A콜 5T	N/A	A
5	PACKING TAPE	-	PP	N/A	A