



SHENZHEN ATN COMMUNICATION TECHNOLOGY CO., LTD.
SPECIFICATION FOR APPROVL

CUSTOMER:	SiXing
CUSTOMER PRJ:	lmini-7006 (L)
OUR MODEL NO:	ATN79029 (L)
SPECIFICATIONS:	2. 4-2. 48GHz
Q' TY:	1 pcs
DATE:	2024. 10. 9

A T N			CUSTOMER		
make	examine	Approver	Structure	Electronics	Approver

Address: 504-505, XiaGu, Wonderful life creative valley, Xinan, Baoan, ShenZhen.
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Record			
Date	Content	version	notes
2024.10.9	Initial release	A0	

1、 Test Equipment&Conditions

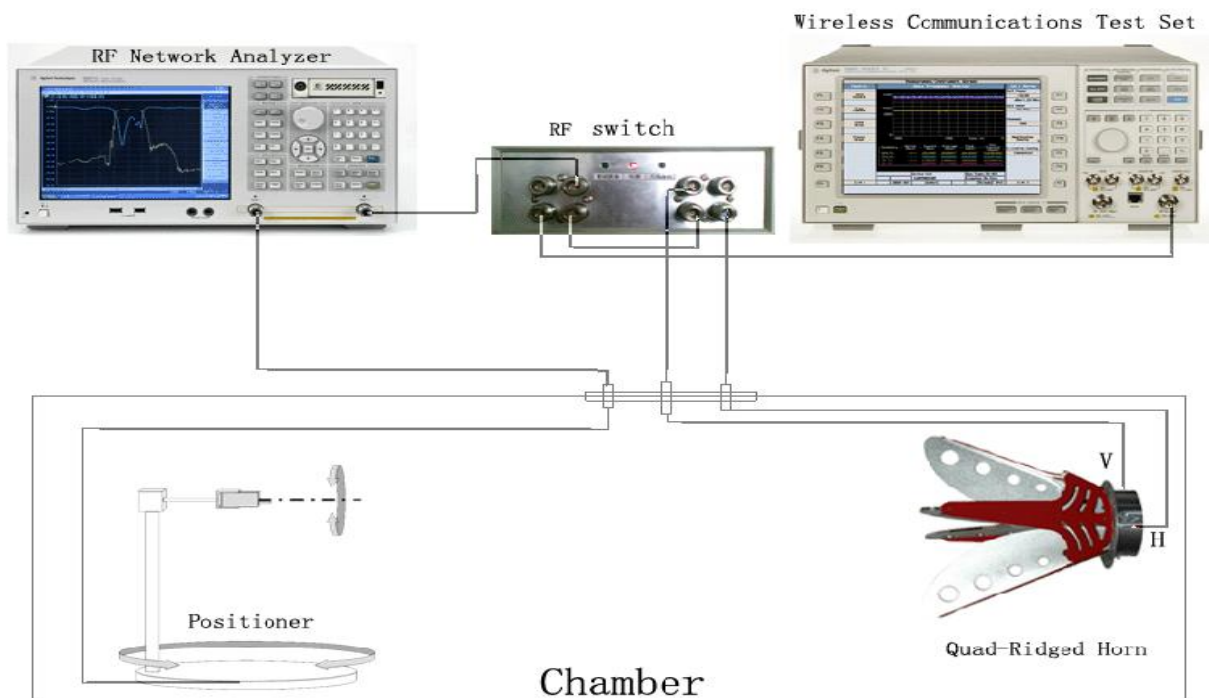
1.1 Network Analyzers

Agilent Technologies E5071B

1.2 Communications Test Set

CMW500

1.3 Test System



2、Product Specification

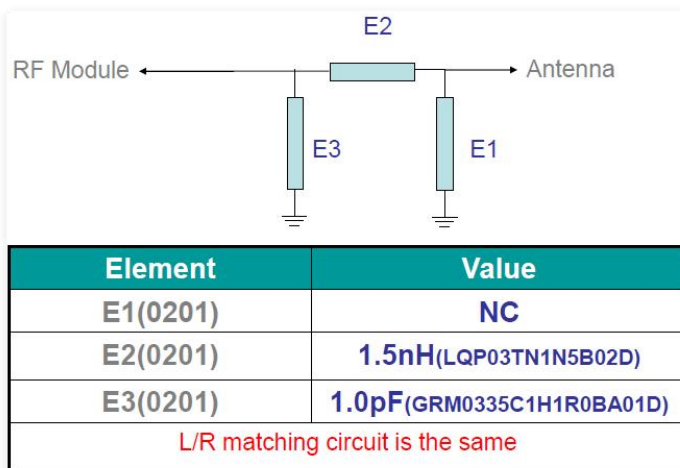
2.1、Material&Mechanical Characteristics

Material	FPC
Dimension	mm

2.2、Storage conditions

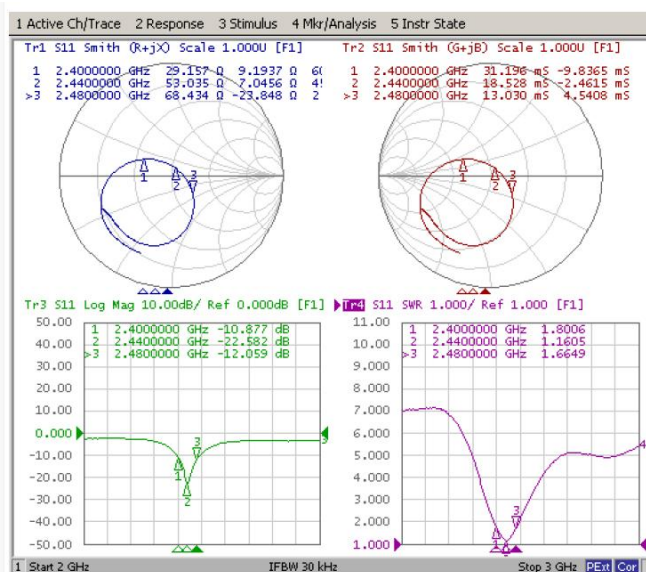
Storage Temperature	22℃±5℃
relative humidity	35-65%
Storage life	360 day

3、Matching circuit



4 、Test Data Report

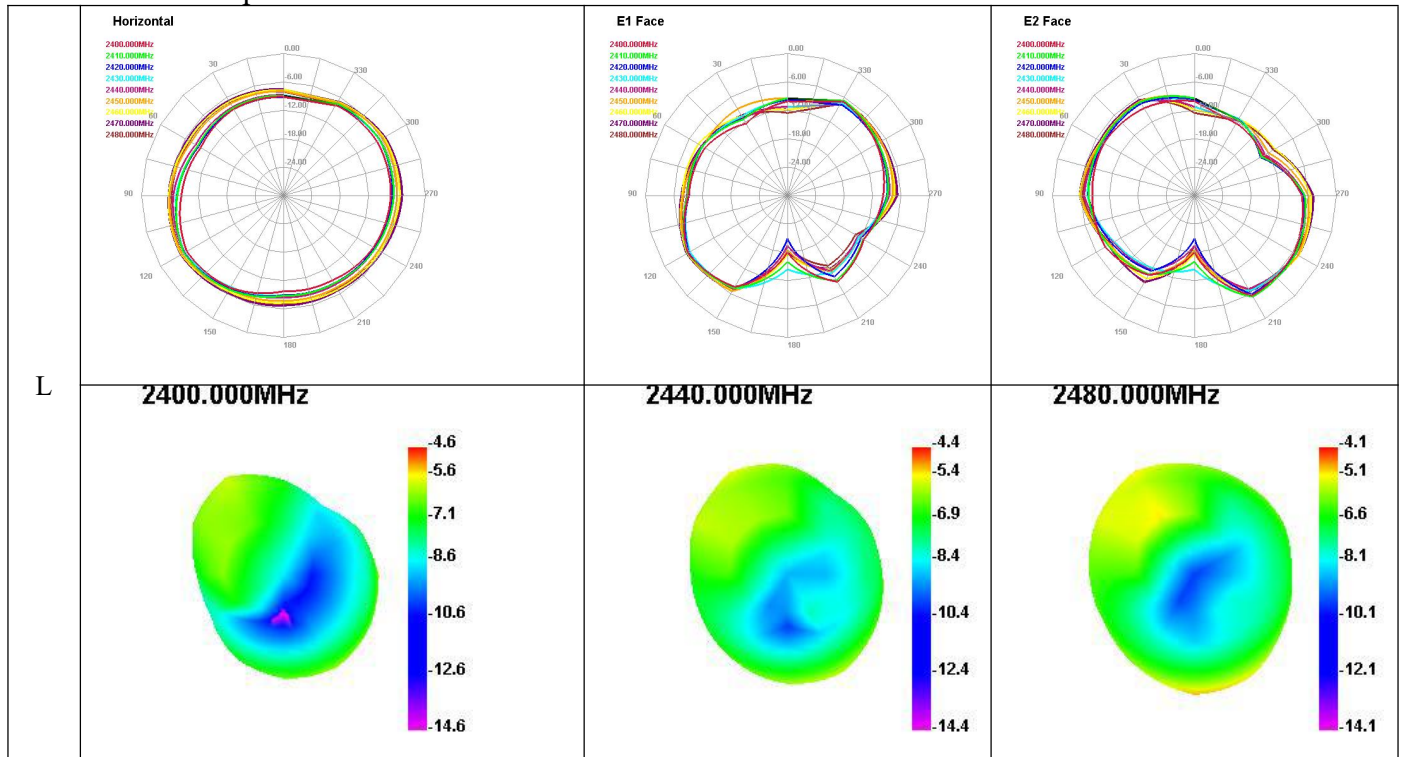
4.1 S11 Parameter



4.2 Gain & Efficiency

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2410	15.87	-7.99	-4.31
2420	14.91	-8.27	-4.47
2430	14.29	-8.45	-4.62
2440	14.85	-8.28	-4.41
2450	17.05	-7.68	-3.71
2460	17.84	-7.49	-3.52
2470	18.48	-7.33	-3.54
2480	16.76	-7.76	-4.09

4.3 Radiation pattern



4.4 Test Data Report

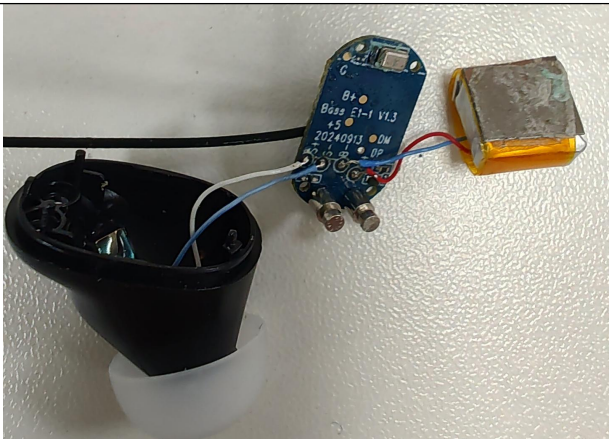
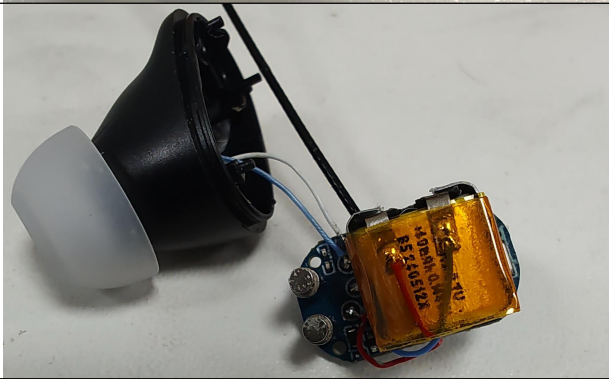
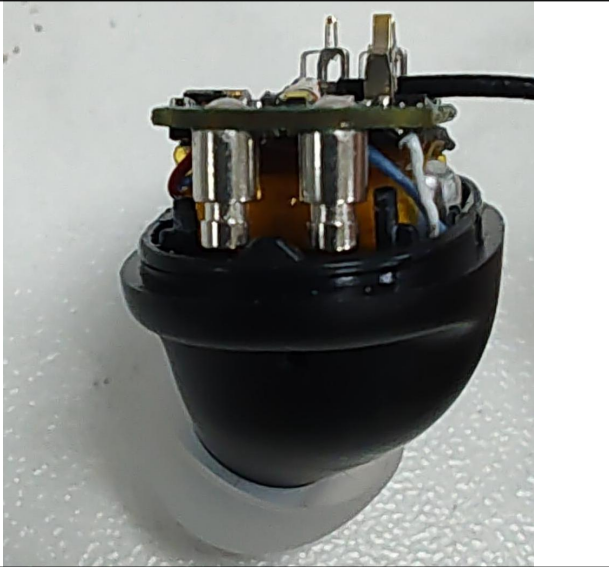
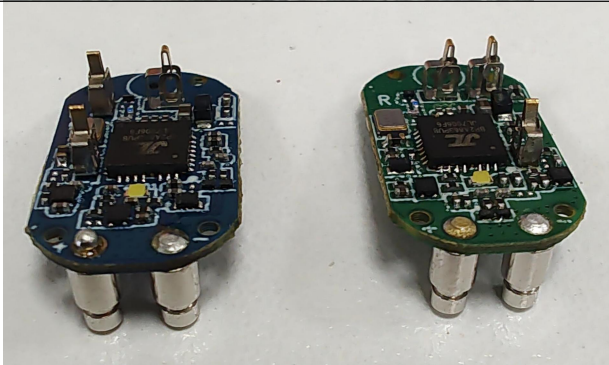
band	channel	TRP (dBm)	TIS (dBm)
Bluetooth BR (L) Head phantom	0	-3.8	-81.2
	39	-3.2	-81.1
	78	-2.9	-81.1

4.5 Distance of bluetooth

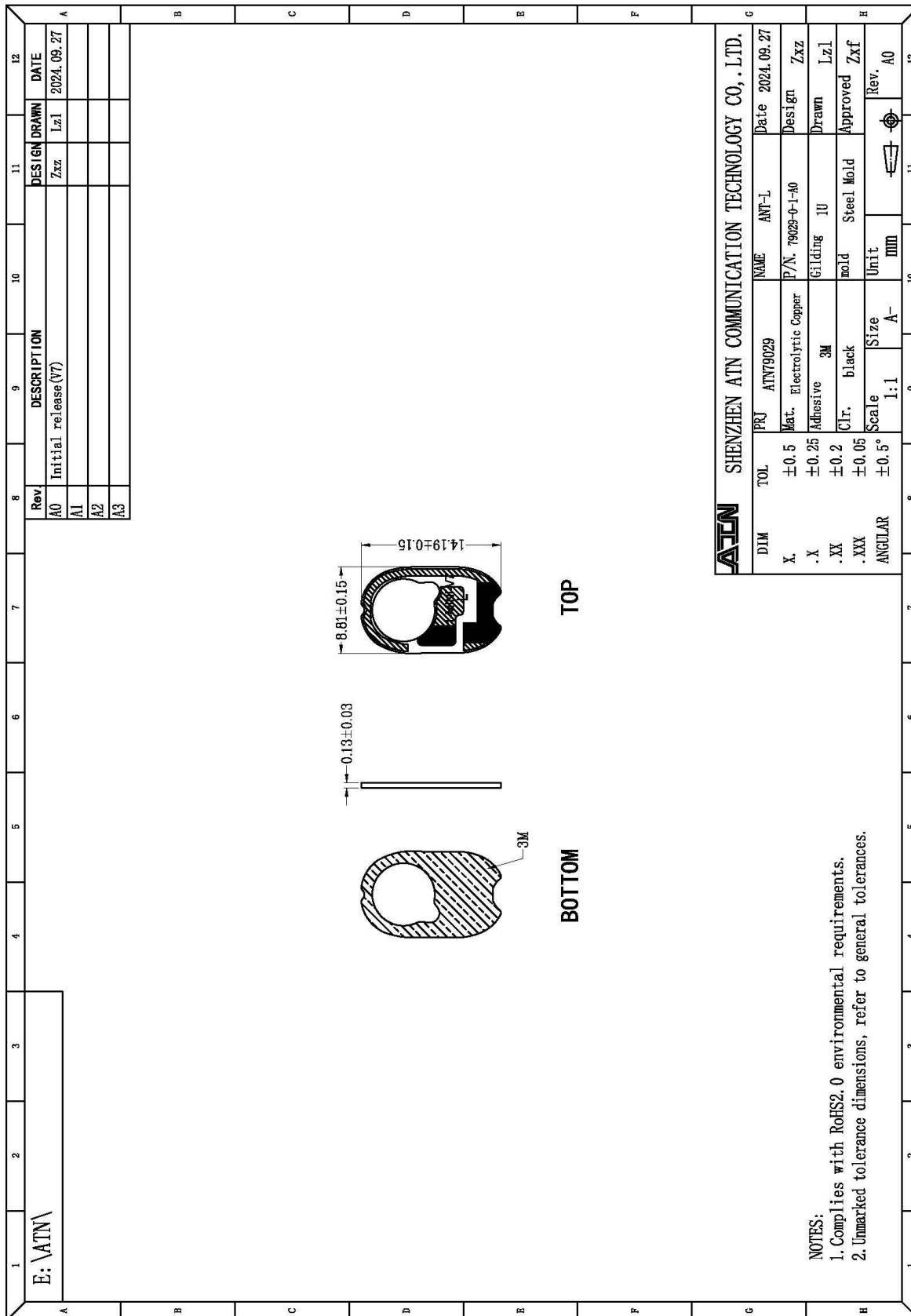
Test location: longchang Road,South gate of meishengchuanggu

Test phone	iphone6s
Listen to music omnidirectional (m)	25

5、Assembly requirements

1		The battery and the horn lines is 20mm long, and the absorbing material is attached to one side of the battery.
2		Battery placement is shown in the figure.
3		As shown: the speaker lines are placed on this side of the speaker pad.
4		The direction of shrapnel patch is shown in the figure above.

6、Product Drawing





7、 Size test report

Dimension test report

project: ATN79029			Product Name: ant-L					
category: FPC			Quantity: 5 PCS			Date: 2024.10.09		
Inspection basis and standard			☒ Engineering drawings ☐ Standard template ☐ Other_____					
Measurement equipment & accuracy			Vernier caliper & 0.02mm					
Inspection items			test value					determine
			1	2	3	4	5	
Dimensional inspection	1	0.13±0.03	0.12	0.12	0.12	0.12	0.12	OK
	2	8.81±0.15	8.86	8.84	8.86	8.88	8.82	OK
	3	14.19±0.15	14.24	14.26	14.28	14.22	14.24	OK
	4	/						
	5							
	6							
	7							
	8							

8、Salt spray test report

project	ATN79029	SPECIFICATIONS	FPC
Test information	Number of tests: 5 PCS		
	base material: Electrolytic Copper	Gold plating: 1U"	
Test conditions	salt solution: 5%	PH:7.0	
	Box temperature: 35°C	relative humidity: 5%	
	spray mode: ☒ continuous ☐ intermittence	Compressed air pressure: 1kg/cm²	
	rate of salt spray precipitation:	Mist collection: PH7.0nac	
	Test cycle: __1__cycle	Spray time: 24 h	
test result	Appearance after test: the appearance is intact without obvious change		
	Coating: no peeling and corrosion		
	Surface spraying and silk screen printing: no falling off and bubble		
Test judgment	OK		
notes: 1. The operation standard of salt spray test shall be in accordance with the national standard of the people's Republic of China GB / t2423 17-2008 implementation 2. The judgment standard of test piece results shall be in accordance with the national standard of the people's Republic of China GB / t6461-02			

9、Manner of packing

SHENZHEN ATN COMMUNICATION EQUIPMENT CO.LTD

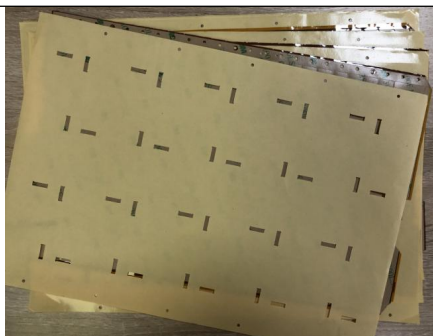
Product packaging

edition: : A0

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1.

Barrier paper protection products



2.

Sealing bag packaging effect



3. Carton sealing effect

