

Antenna Test Report

For

Project PM179

Customer	倍思(Baseus)	Project	PM179
Band	BT	Color	
Issued by	韦永斌(weiyongbin)	Checked by	
Confirmed by		Date	2026.04.22

Baseus PM179 lite RF测试报告

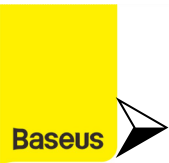
Baseus PM179 lite RF Test report

项目履历表(Project Resume)							
日期 Date	天线版本 ANT Version	软件版本 Software Version	硬件版本 Hardware Version	变更原因 Reason for change	变更内容 Change Content	测试人 Tester	备注 Remarks
2025.11.15	V1			初版调试 First version debunning		WWL	
2026.01.15	V1			换板 Change PCB		WWL	
2026.02.11	V2			改板 Change PCB		WWL	
2026.03.21	V8			优化天线 Optimize Ant	天线整体上移 Move the antenna up as a whole	WWL	
2026.04.22	V12			试产机 Pilot machine		WWL	

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- 无源数据(Passive Data)
- OTA数据(OTA Data)
- 天线尺寸图(Antenna dimension drawing)



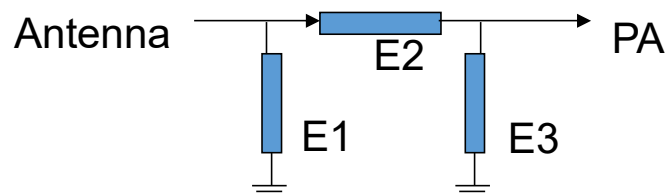


结论(Conclusion)

1.从数据上看，头模和自由均OK

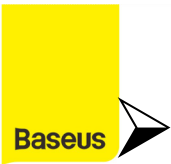
From the data, both the head model and free space are OK.

天线匹配(Ant Matching)



R		L	
位号 Reference Designator	参数 Parameter	位号 Reference Designator	参数 Parameter
E1		E1	
E2		E2	
E3		E3	

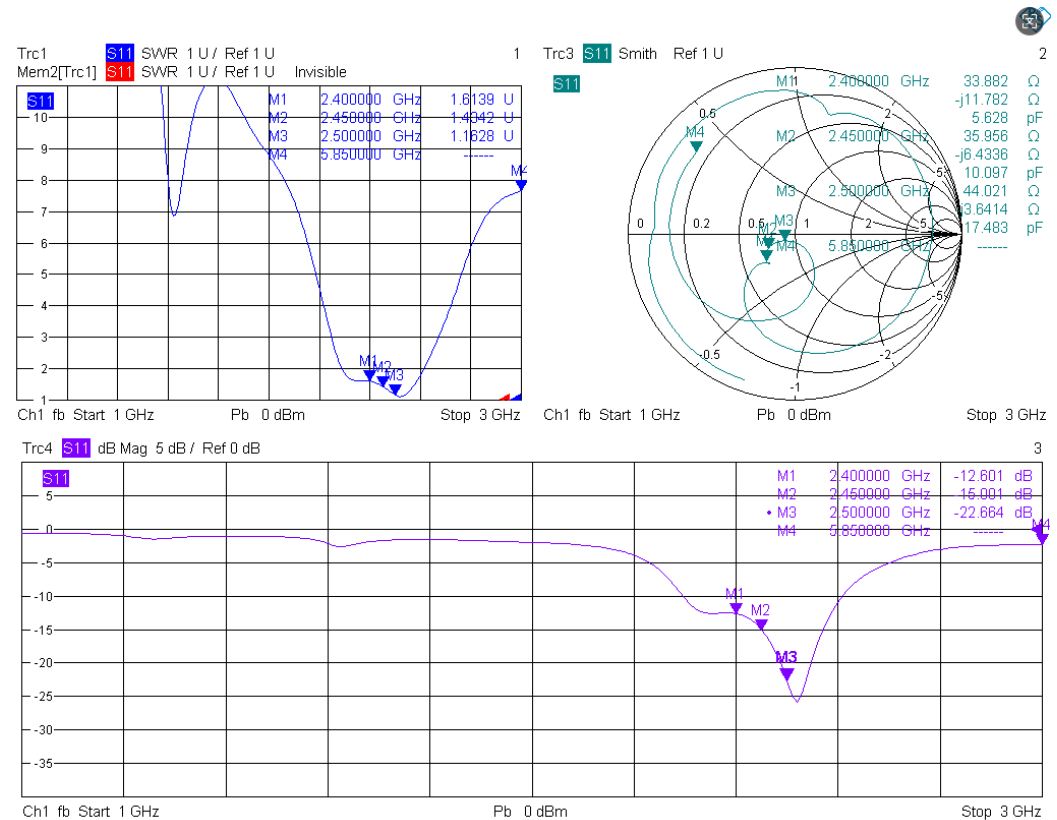
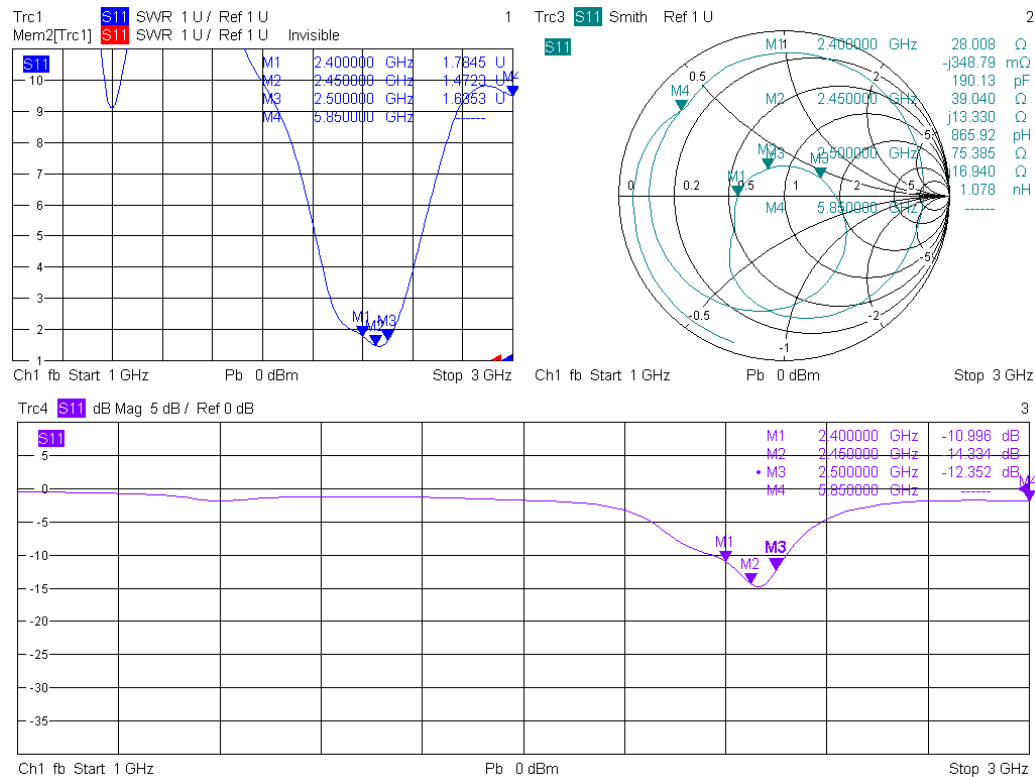
PCB上原匹配, 未改动(The original matching on the PCB remains unchange)



VSWR@SMITH@LOG MAG

R

L





无源效率(Passive Efficiency)

自由空间(Free Space)
R L

Frequency MHz	Efficiency dB	Efficiency %	Gain dBi	Frequency MHz	Efficiency dB	Efficiency %	Gain dBi
2400	-4.44	35.87	-0.27	2400	-4.4	36.31	0.21
2410	-4.65	34.25	-0.67	2410	-4.85	32.73	-0.4
2420	-4.79	33.19	-0.73	2420	-4.79	33.19	-0.08
2430	-4.94	32.03	-0.87	2430	-5.12	30.76	-0.53
2440	-5.05	31.24	-0.91	2440	-5.06	31.19	-0.45
2450	-5.16	30.46	-0.99	2450	-5.11	30.83	0.05
2460	-5.22	30.02	-1.02	2460	-5.1	30.9	0
2470	-5.24	29.88	-1.13	2470	-5.14	30.62	0.27
2480	-5.40	28.78	-1.58	2480	-5.5	28.18	-0.12
平均值(Average)	-4.98	31.74	-0.81	平均值(Average)	-5.00	31.63	-0.11

头模(Head Model)
R L

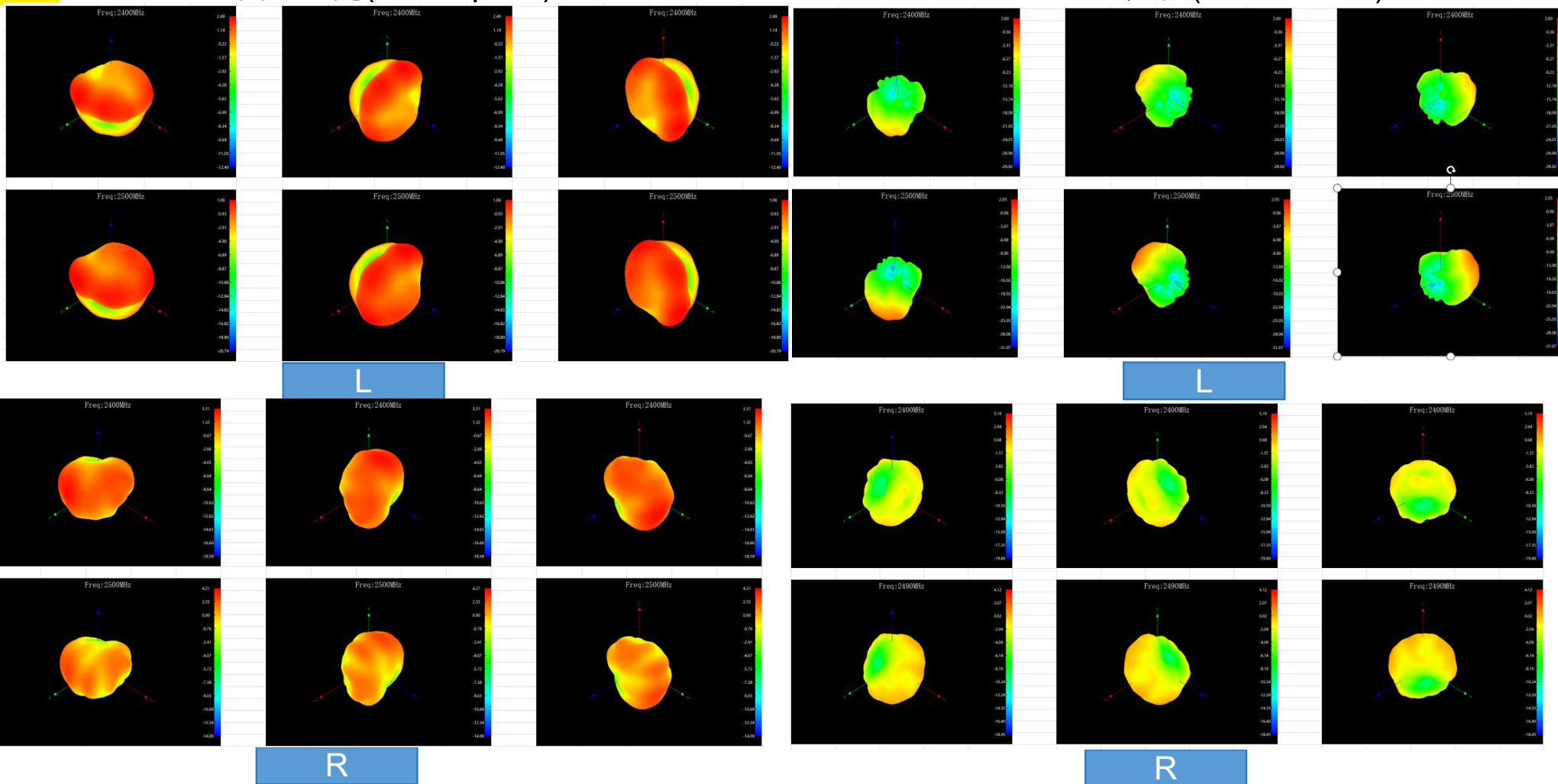
Frequency MHz	Efficiency dB	Efficiency %	Gain dBi	Frequency MHz	Efficiency dB	Efficiency %	Gain dBi
2400	-8.77	13.25	-2.24	2400	-8.55	13.96	-1.64
2410	-8.53	14.02	-2.35	2410	-8.7	13.49	-1.56
2420	-8.67	13.57	-2.05	2420	-8.37	14.55	-2.22
2430	-8.78	13.24	-2.31	2430	-8.54	14	-1.93
2440	-9.01	12.58	-2.35	2440	-8.38	14.52	-1.78
2450	-8.85	13.02	-2.25	2450	-8.43	14.35	-1.9
2460	-8.81	13.13	-2.01	2460	-8.35	14.62	-2.02
2470	-8.46	14.25	-1.87	2470	-8.21	15.1	-2.46
2480	-8.61	13.78	-1.98	2480	-8.26	14.93	-2.41
平均值(Average)	-8.72	13.42	-2.15	平均值(Average)	-8.42	14.39	-1.99



苹果图(Apple Chart):

自由空间(Free Space)

头模(Head Model)



OTA数据(OTA Data)

1#

OTA 测试 (OTA Test)								
自由(Free Space) R	Channel	TRP	TIS		自由(Free Space) L	Channel	TRP	TIS
	CH 0	2.35	-87.48			CH 0	2.15	-87.32
	CH39	3.05	-87.68			CH39	2.68	-87.42
	CH78	3.15	-88.18			CH78	2.87	-88.05
头模(Head Model) R	Channel	TRP	TIS		头模 L	Channel	TRP	TIS
	CH 0	-2.12	-82.25			CH 0	-2.41	-82.13
	CH39	-2.72	-82.54			CH39	-2.5	-82.68
	CH78	-3.17	-83.02			CH78	-3.03	-83.18

2#

OTA 测试 (OTA Test)								
自由(Free Space) R	Channel	TRP	TIS		自由(Free Space) L	Channel	TRP	TIS
	CH 0	2.68	-87.65			CH 0	2.68	-87.51
	CH39	2.81	-87.84			CH39	3.1	-87.89
	CH78	3.17	-87.82			CH78	3.25	-88.62
头模(Head Model) R	Channel	TRP	TIS		头模(Head Model) L	Channel	TRP	TIS
	CH 0	-3.64	-83.35			CH 0	-3.45	-82.76
	CH39	-4.06	-82.68			CH39	-3.71	-83.15
	CH78	-3.92	-82.37			CH78	-3.84	-83.36

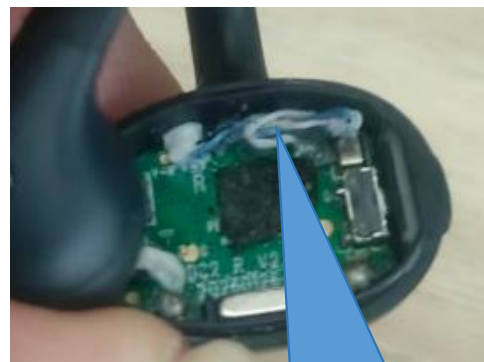
环境处理(Environmental treatment)



左耳喇叭线绞线6圈,摆放在电池与耳挂之间,尽量靠左(Twist the left ear speaker wire 6 turns,place it between the battery and the ear hook,as far left as possible.)



左耳电池绞线1圈,字符面朝上摆放(Twist the left ear battery wire one turn,and place it with the printed side facing up)

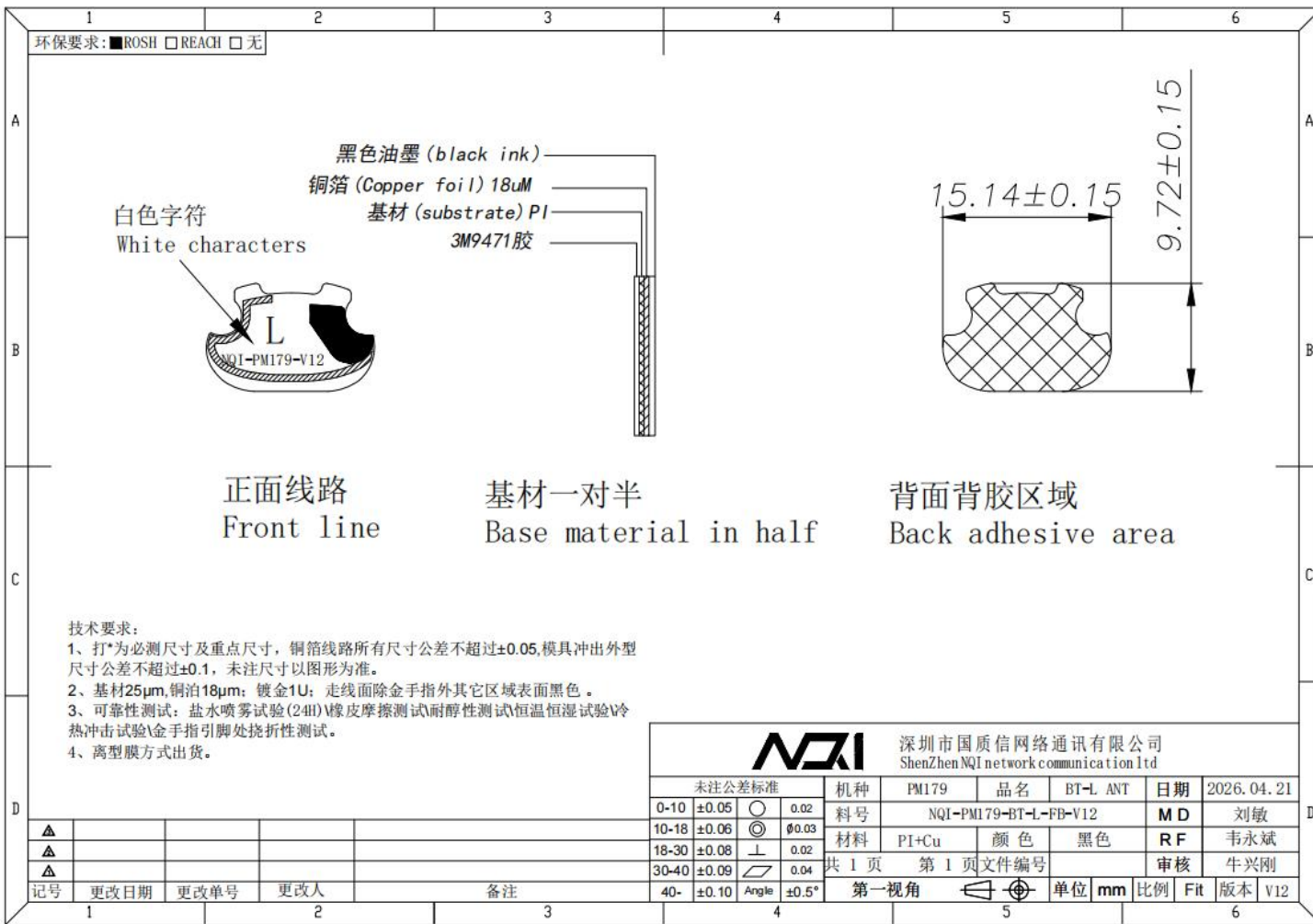


右耳喇叭线绞线6圈,摆放在电池与耳挂之间,尽量靠右(Twist the right ear speaker wire 6 turns,place it between the battery and the ear hook,as far right as possible.)

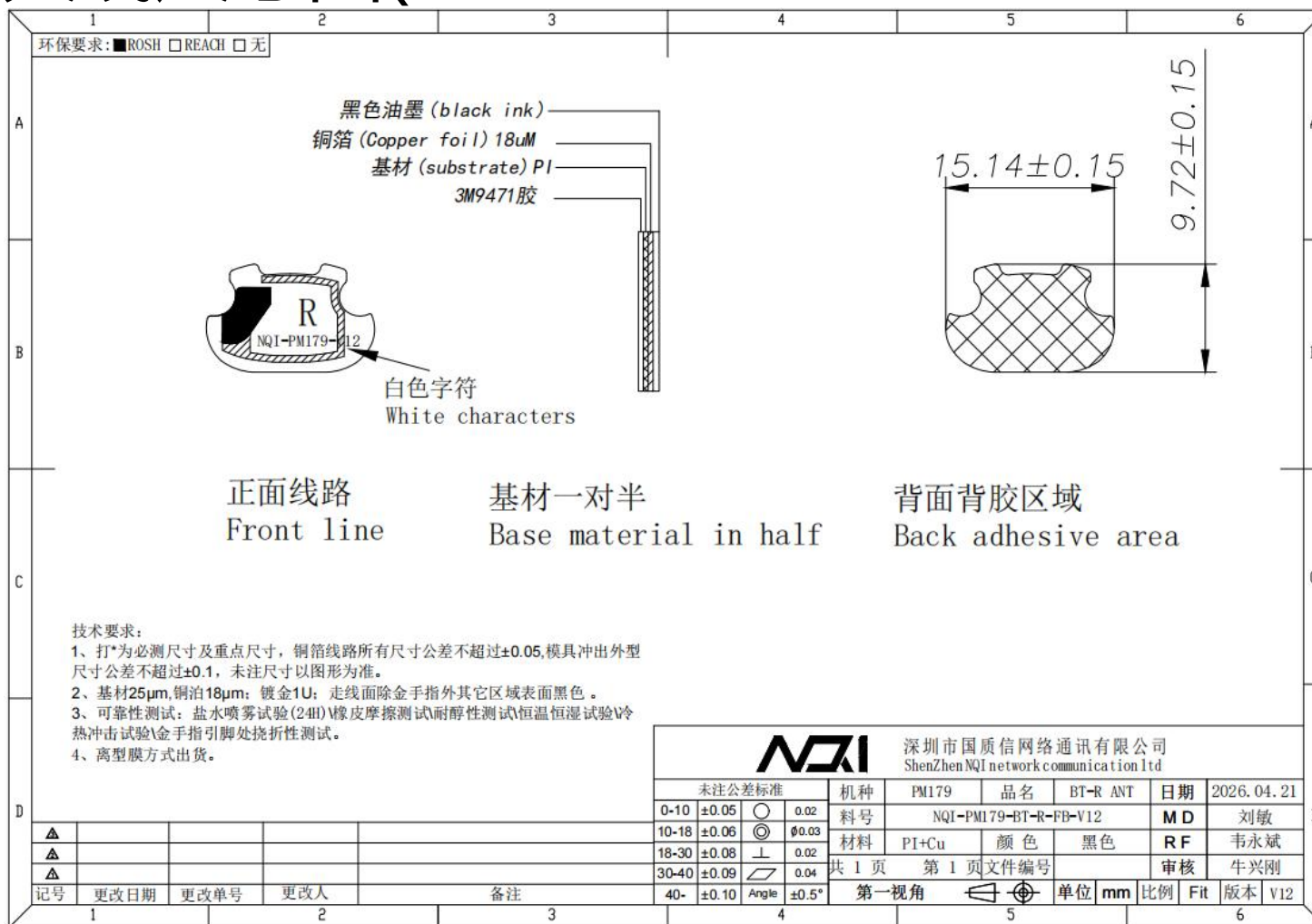


右耳电池绞线1圈,字符面朝上摆放(Twist the right ear battery wire one turn,and place it with the printed side facing up)

天线尺寸图(Antenna dimension drawing)



天线尺寸图(Antenna dimension drawing)



持续首选
持续改善

Continuous Preferred
Continuous Improvement