



Shenzhen Sixun Communication Technology Co., Ltd

client :	
project name :	MH22246
Material category:	R-BT antenna
edition :	V1.0
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Address: A505/506, Donglian Building, Chuangye 2nd Road, Dalang Community, Xin 'an Street, Bao' an District, Shenzhen



catalogue

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Change log			
Date of preparation/revision	Reasons for change	Changes	edition
2025.01.09	First edition	First edition	V1.0

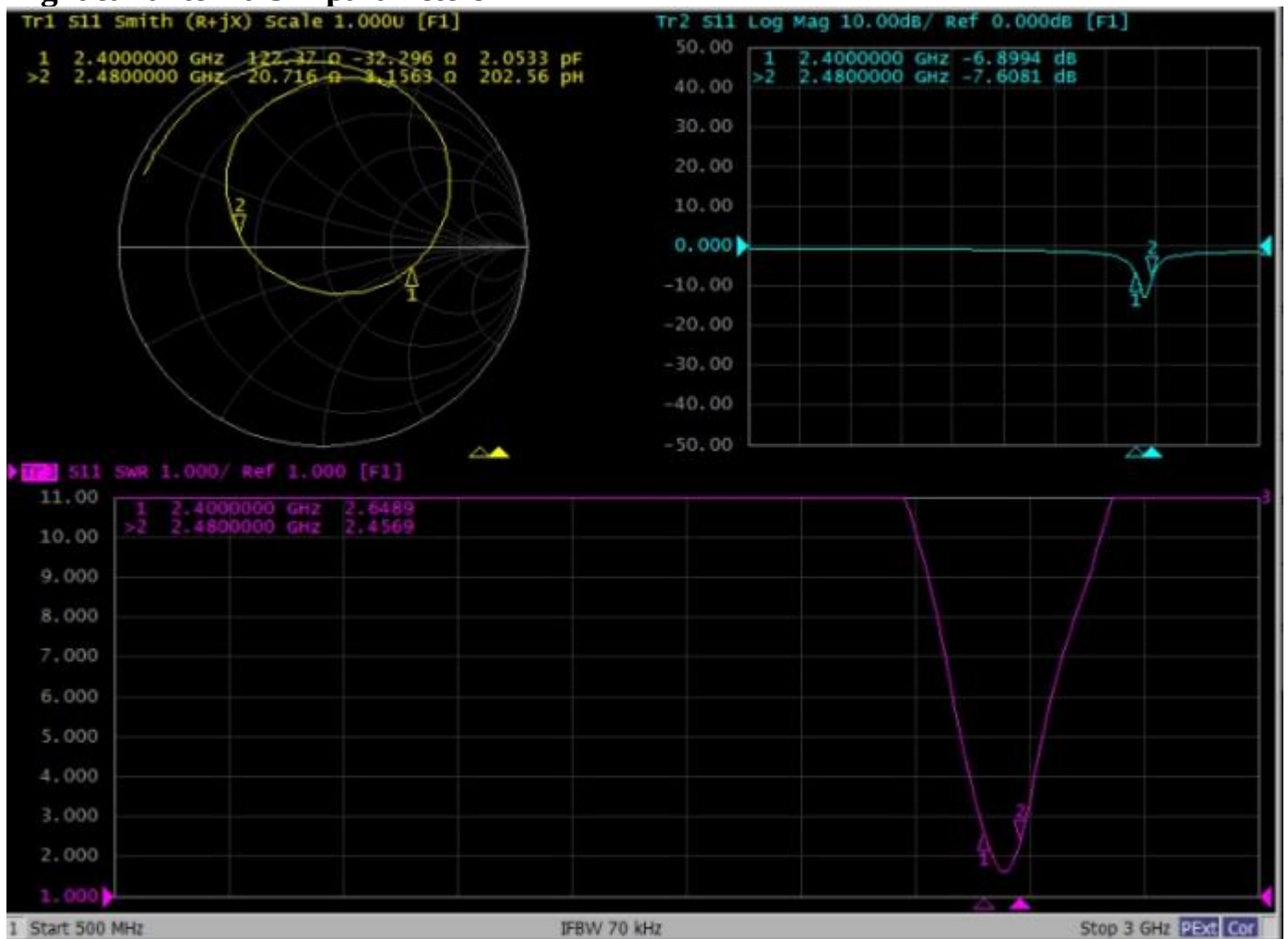


1: Passive test report



Angilent E5071C

Right ear antenna S11 parameters

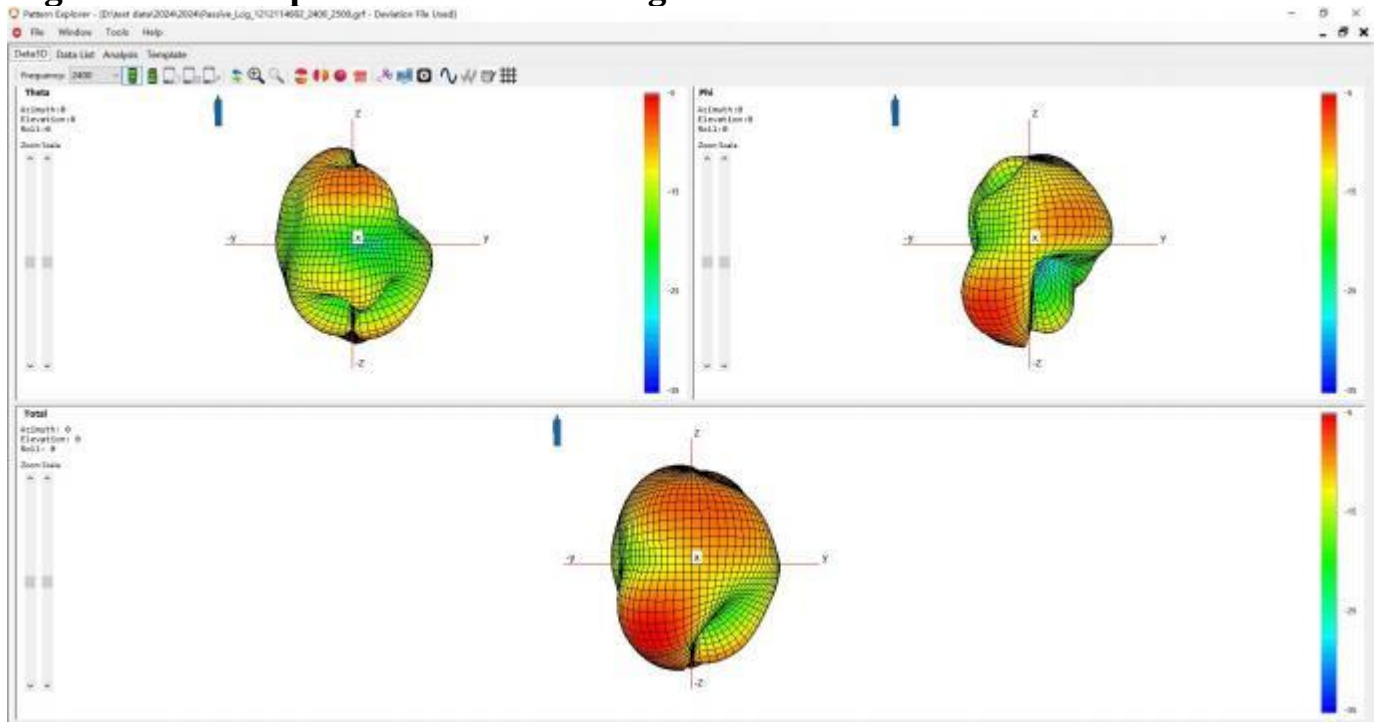




Antenna passive efficiency:

R: Free space; PIFA			
frequency point MHz	productiveness %	productiveness (dB)	gain (dBi)
2400	10.9%	-9.63	-5.15
2410	11.6%	-9.36	-5.18
2420	12.3%	-9.12	-5.37
2430	13.5%	-8.69	-5.13
2440	13.8%	-8.61	-5.10
2450	14.7%	-8.32	-4.91
2460	14.8%	-8.31	-5.20
2470	13.2%	-8.79	-5.94
2480	12.0%	-9.23	-6.64
average value	13.0%	-8.90	-5.40

Right ear antenna passive 3D direction diagram:

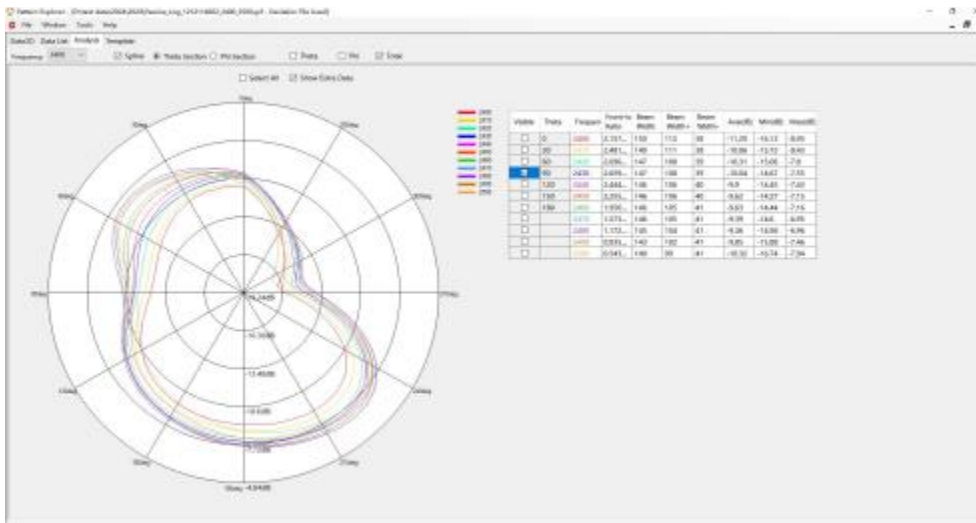




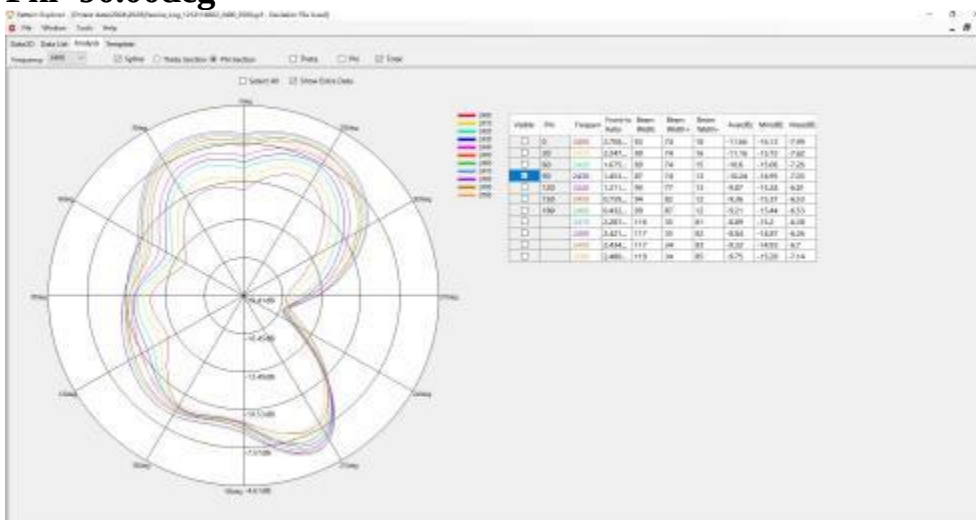
Right ear antenna passive

2D direction diagram:

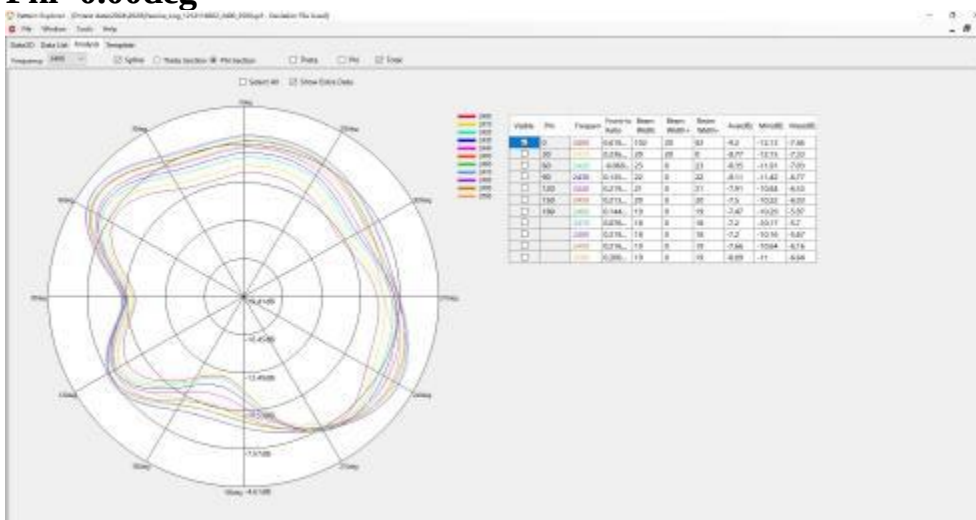
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg





Two: OTA parameters

Remove the				headform	
3	Channel	TRP	TIS	TRP	TIS
R	CH 0	0.5	-82.3	-5.4	-77.6
	CH 39	4.2	-85.8	-5.1	-79.6
	CH 78	5.2	-86.0	-5.9	-79.3

Remove the				headform	
2	Channel	TRP	TIS	TRP	TIS
R	CH 0	-0.1	-80.2	-4.8	-77.3
	CH 39	3.2	-83.5	-4.5	-78.8
	CH 78	4.2	-84.7	-5.7	-78.3

Remove the				headform	
6	Channel	TRP	TIS	TRP	TIS
R	CH 0	0.4	-81.0	-5.9	-77.4
	CH 39	2.8	-84.1	-5.8	-79.3
	CH 78	4.5	-85.1	-5.9	-79.5

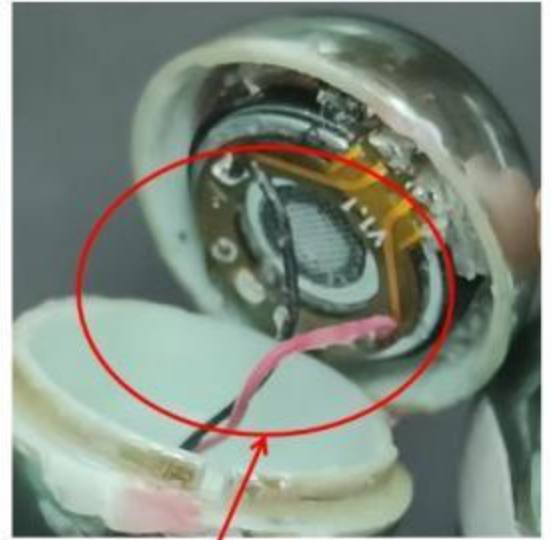


OTA Standard Chamber

3: Installation precautions



1. R耳的喇叭线长度没有修改，不用绞线，R耳中的GND线要取消，喇叭线摆在图中红圈标记的区域，注意打胶时不要把胶打在线上压在一起！电池线出线摆放位置如上图所示，电池线长没有修改。



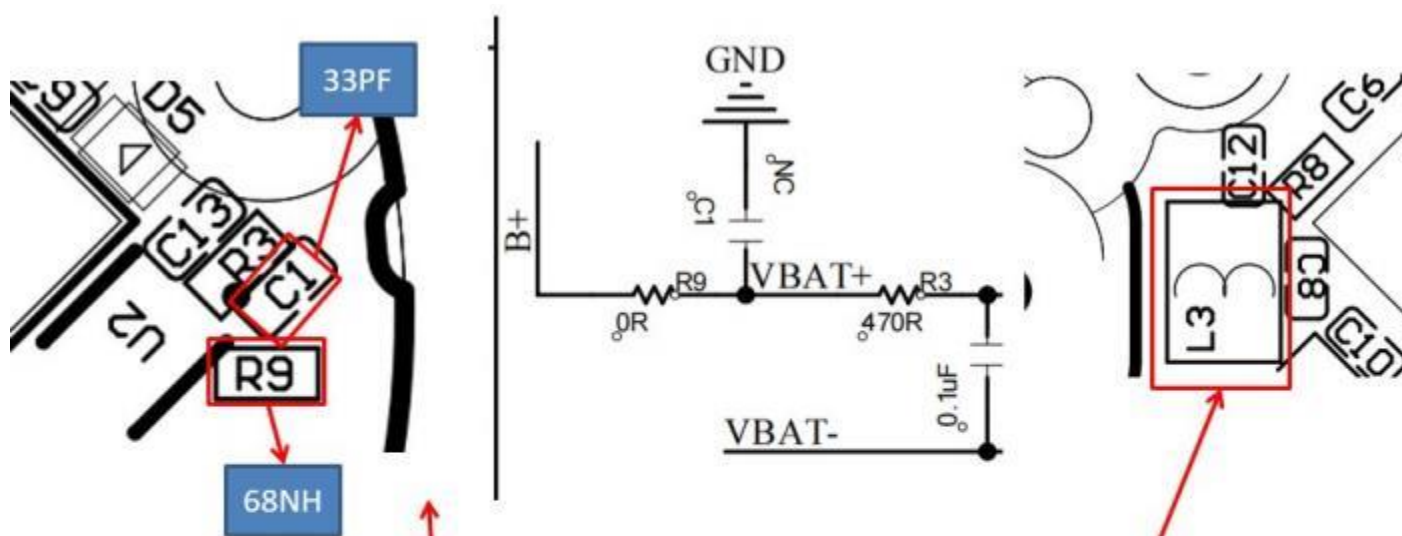
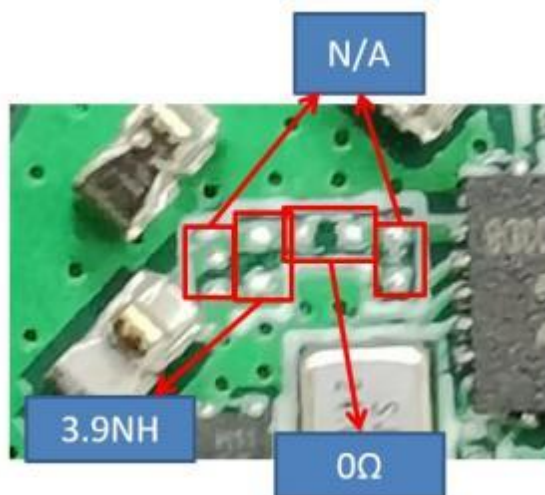
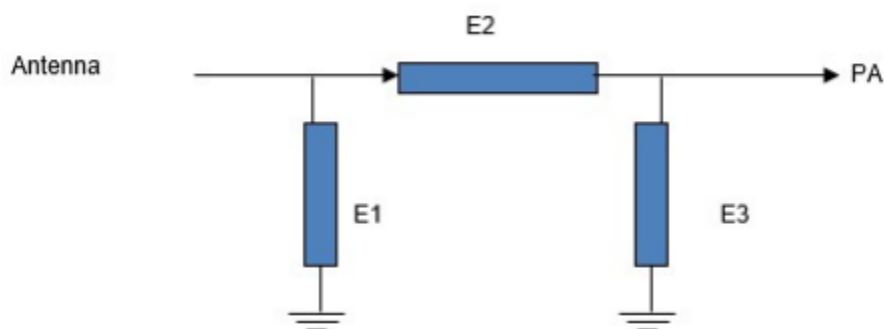
2. 喇叭腔体内的喇叭线长度也没有修改，喇叭线不绞在一起，装配位置如上图。

Note that the length of the wire cannot be changed at will, and the arrangement and assembly mode of the wire should be controlled in accordance with the instructions in the figure above. Otherwise, there may be a risk of consistency.



Four: matching circuit

Element	Value
E1(0201)	3.9NH
E2(0201)	0Ω
E3(0201)	N/A



电池正极的LC滤波电路需要按上图进行修改。
左右耳一样。

R耳主板的功率电感需要更换为带屏蔽的功率电感。L耳可以不用换。



5: Structural drawings

