



Antenna Part Specification

Customer name:	LianChuang
Project name:	S6S
Material category:	L-BT antenna
Version:	V1.0
Date:	2024.11.08



Contents

I: The report of passive data	3
II: 3D Active test report of antenna	6
III: Matching circuit.....	7
IV: Environmental treatment.....	8
V: Structure file:	9

Change record			
Compile / change date	Reason for change	Changed content	Version
2024.11.08	first edition	first edition	V1.0

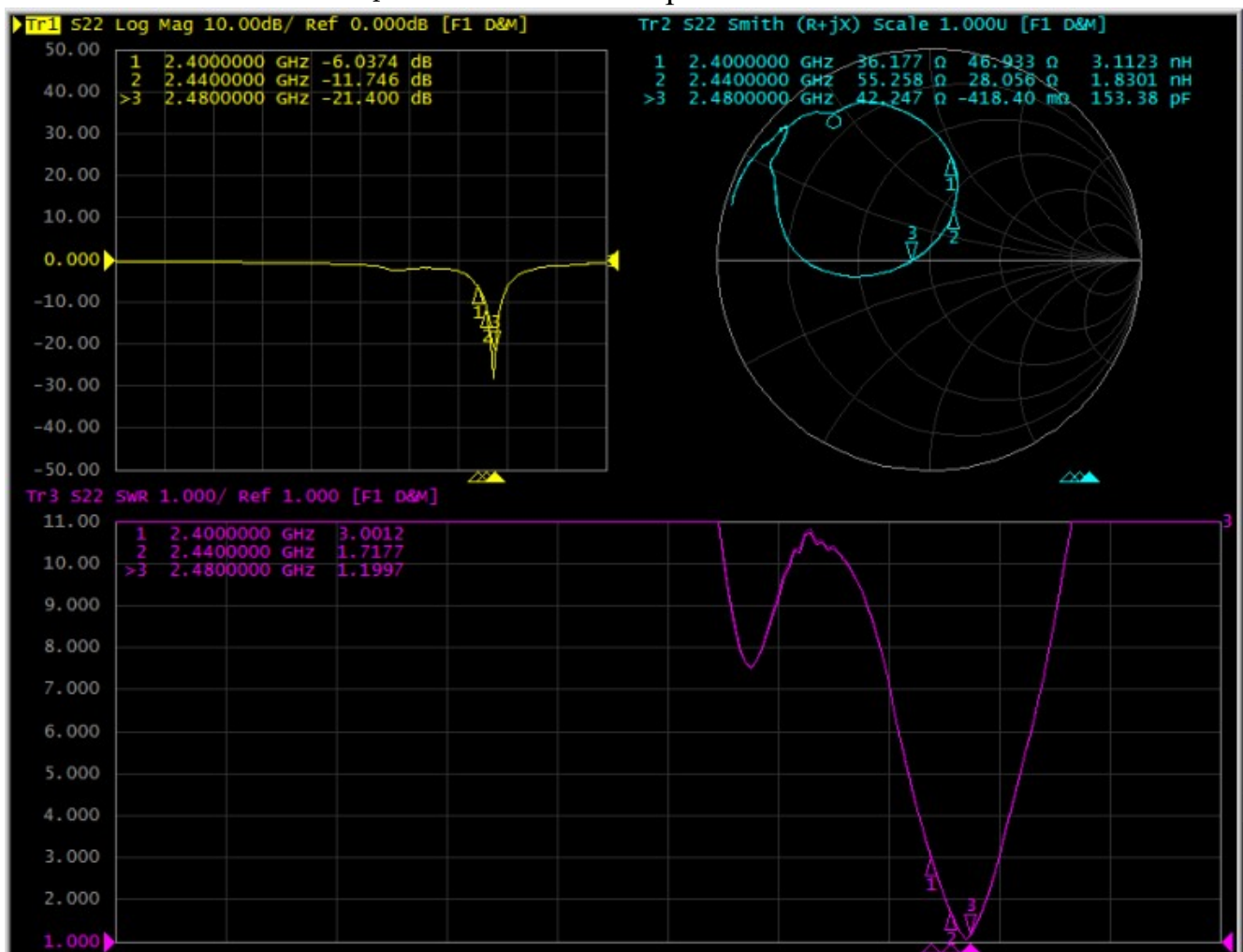


I: The report of passive data



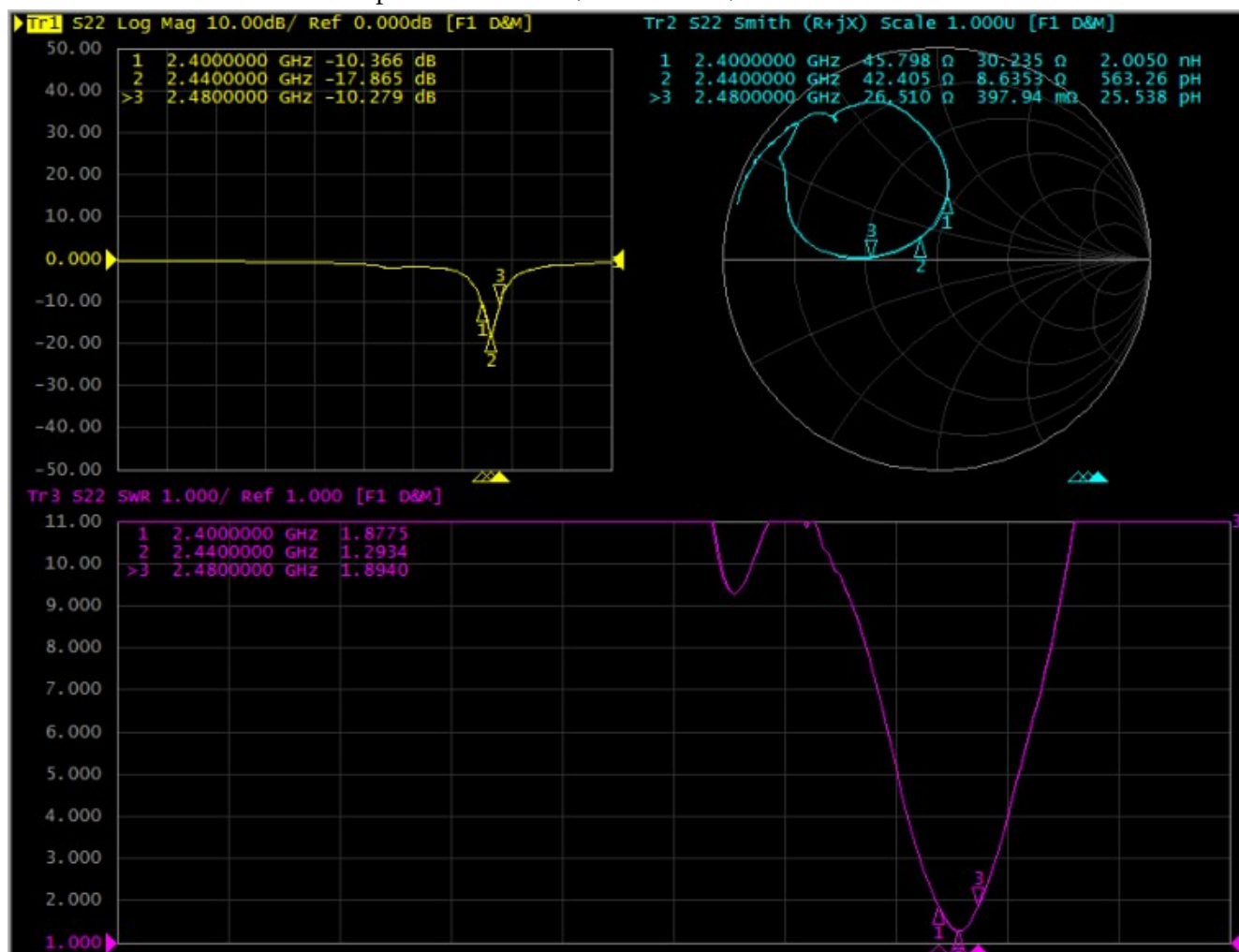
Angilent E5071C

Left ear antenna S11 parameters (Free space)





Left ear antenna S11 parameters (Headform)





Efficiency:

L 2400-2480MHz (Free space)			
Frequency(MHz)	Efficiency(%)	Efficiency (dB)	Gain (dBi)
2400	8.9%	-10.5	-7.0
2410	9.2%	-10.4	-7.4
2420	10.4%	-9.8	-6.8
2430	11.8%	-9.3	-6.2
2440	12.1%	-9.2	-6.0
2450	12.6%	-9.0	-5.8
2460	12.1%	-9.2	-5.9
2470	10.0%	-10.0	-6.8
2480	8.3%	-10.8	-7.7
Average value	10.6%	-9.8	-6.6

L 2400-2480MHz (Headform)			
Frequency(MHz)	Efficiency(%)	Efficiency (dB)	Gain (dBi)
2400	5.2%	-12.8	-7.3
2410	5.7%	-12.4	-6.6
2420	6.0%	-12.2	-6.5
2430	5.7%	-12.4	-6.6
2440	5.5%	-12.6	-6.6
2450	5.1%	-12.9	-6.6
2460	4.8%	-13.2	-7.0
2470	4.7%	-13.3	-7.2
2480	4.1%	-13.9	-7.8
Average value	5.2%	-12.9	-6.9



II: 3D Active test report of antenna

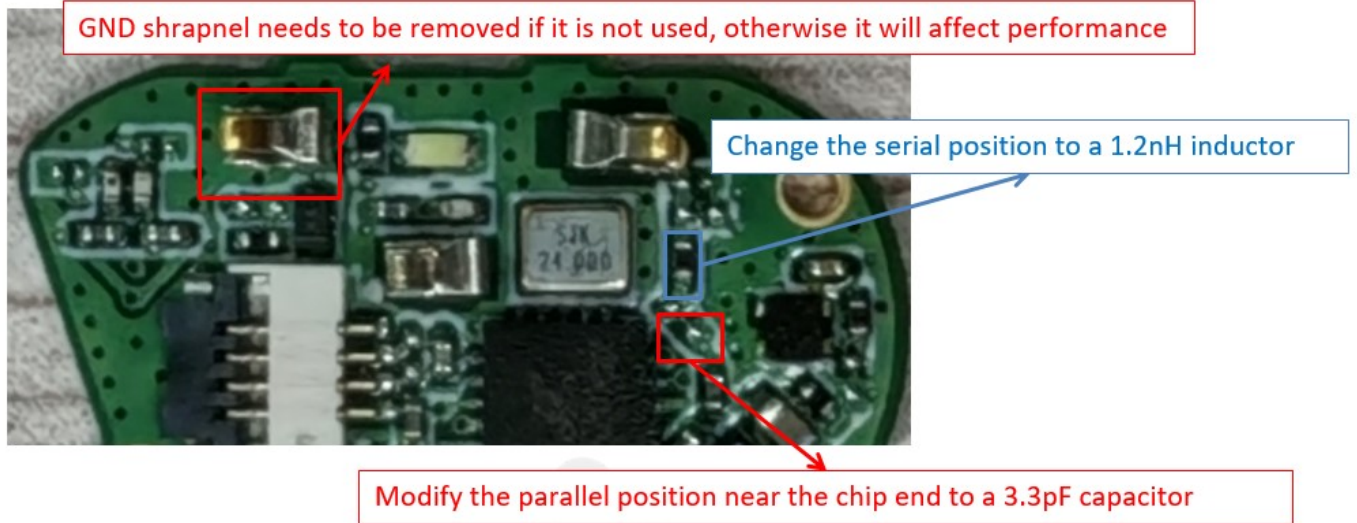
		Free space		Headform	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	0	-3.7	-79.1	-4.8	-78.8
	39	-1.2	-82.2	-2.8	-79.8
	78	0.3	-81.2	-4.5	-79.2



OTA Standard Chamber



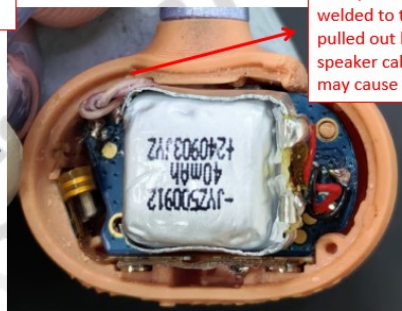
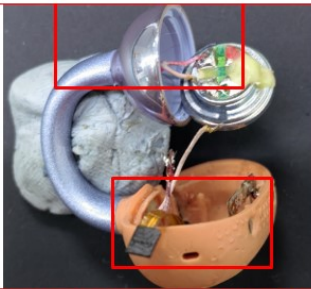
III: Matching circuit





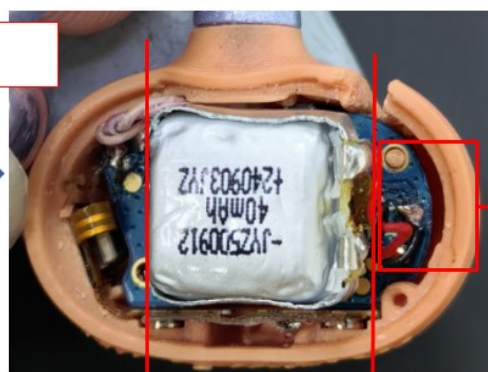
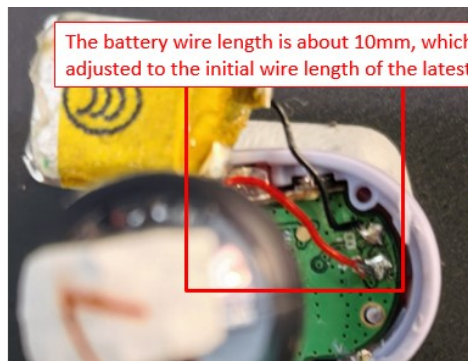
IV: Environmental treatment

The speaker wire on this end is about 5mm long and has not been adjusted to the initial wire length of the latest material.



The speaker cable needs to be twisted 2-3 times before being welded to the motherboard; Note that all speaker cables need to be pulled out before being installed on the motherboard to avoid the speaker cables touching the antenna wiring inside the shell, which may cause changes in the overall performance of the machine.

The speaker wire on this end is about 15mm long and has not been adjusted to the initial wire length of the latest material.

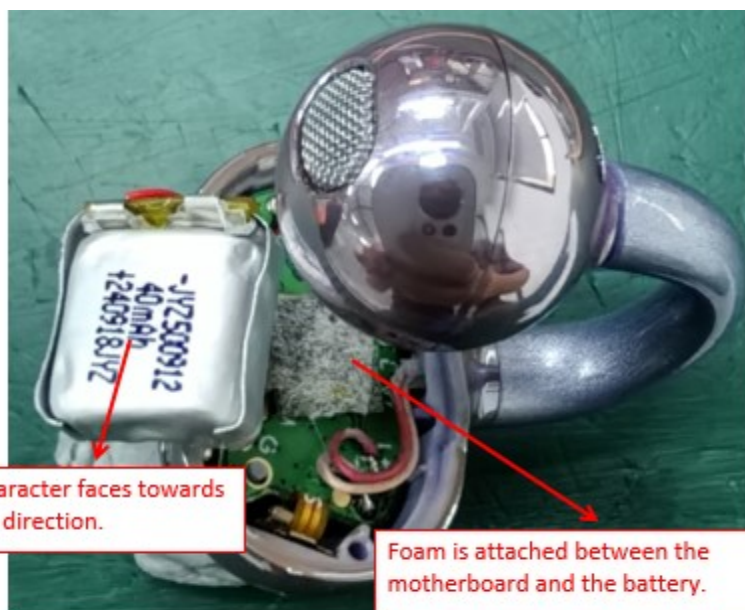


The battery wire length is about 10mm, which has not been adjusted to the initial wire length of the latest material.

To ensure consistency in subsequent batch installations, it is recommended to twist the battery wires 2-3 times before inserting them into the casing.



It is recommended to align the battery with the gap of the cable when placing it.



The battery character faces towards the back cover direction.

Foam is attached between the motherboard and the battery.



V: Structure file:

