



样品规格书

项目名称:	HP01
物料类别:	BT 天线
版本:	V2.0
日期:	2022.09.02



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变更记录栏 Change Record field			
编制/变更日期 Compilation/Change date	变更理由	变更内容	版本
2022.08.29	初版发行	初版发行	V1.0
2022.09.02	结构优化	更新线路及走线	V2.0

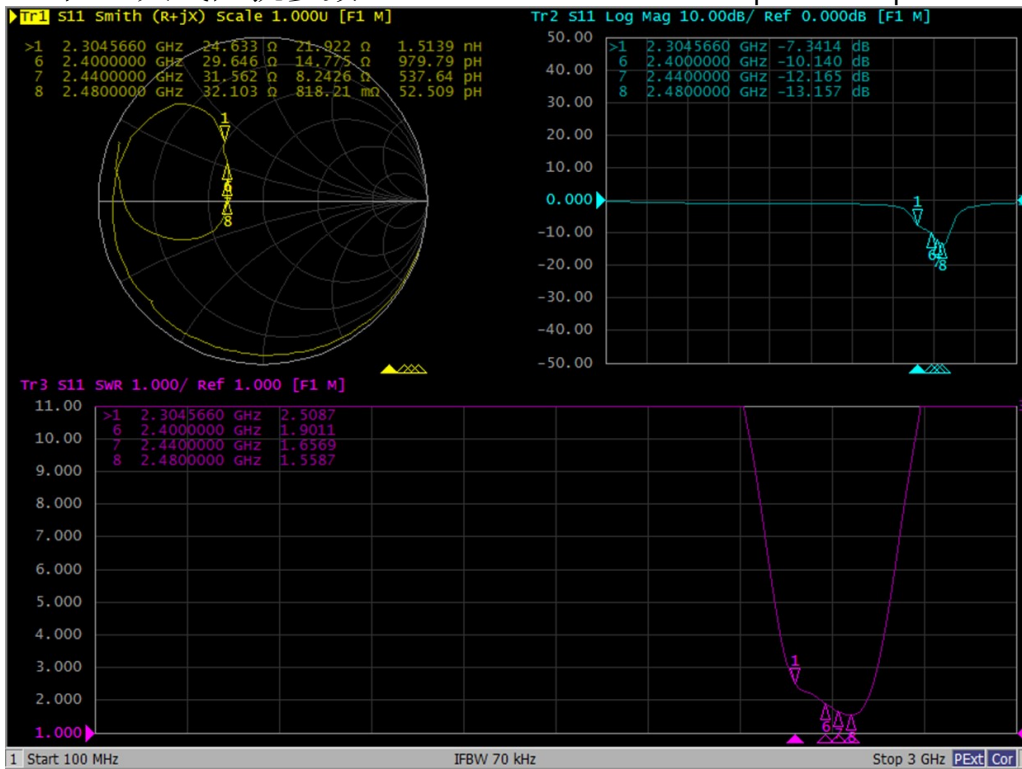


一：无源测试报告 Passive test report



Agilent E5071C

左耳 BT 天线阻抗参数 left ear BT Antenna impedance parameter



左耳 BT 天线效率和增益 left ear BT Antenna efficiency and gain:

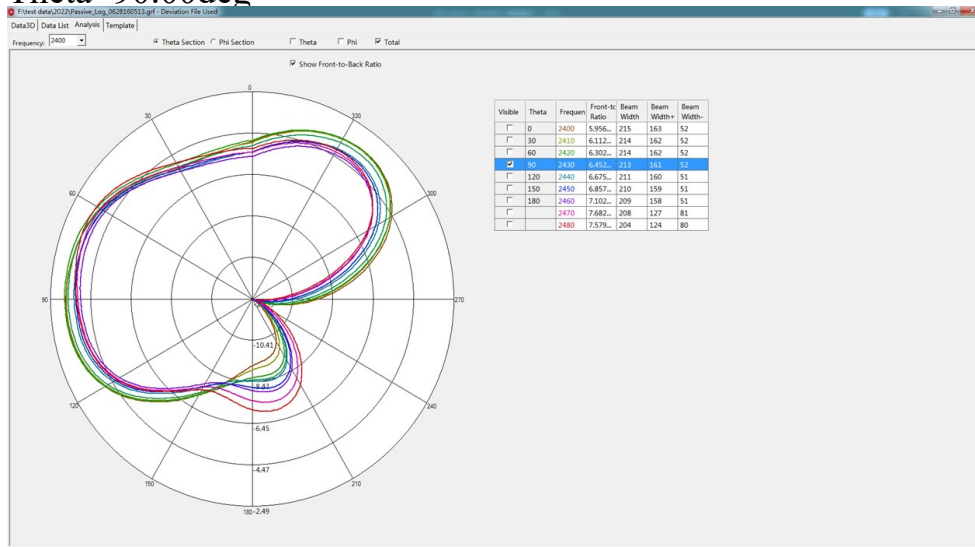
2400-2480 MHz L

频点 MHz	效率%	效率 (dB)	增益 (dBi)
2400	18.5%	-7.3	-2.77
2410	21.1%	-6.8	-2.65
2420	21.9%	-6.6	-2.58
2430	21.7%	-6.6	-2.72
2440	21.0%	-6.8	-2.84
2450	20.4%	-6.9	-2.77
2460	19.3%	-7.1	-2.97
2470	19.3%	-7.1	-2.83
2480	19.0%	-7.2	-2.81
平均值	20.3%	-6.9	-2.77

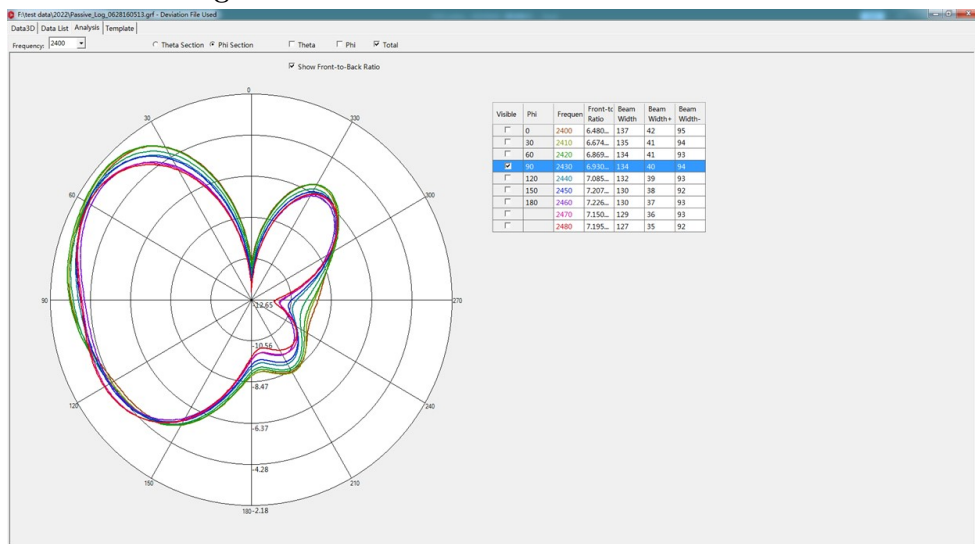


左耳天线无源方向图 left ear Antenna passive pattern:

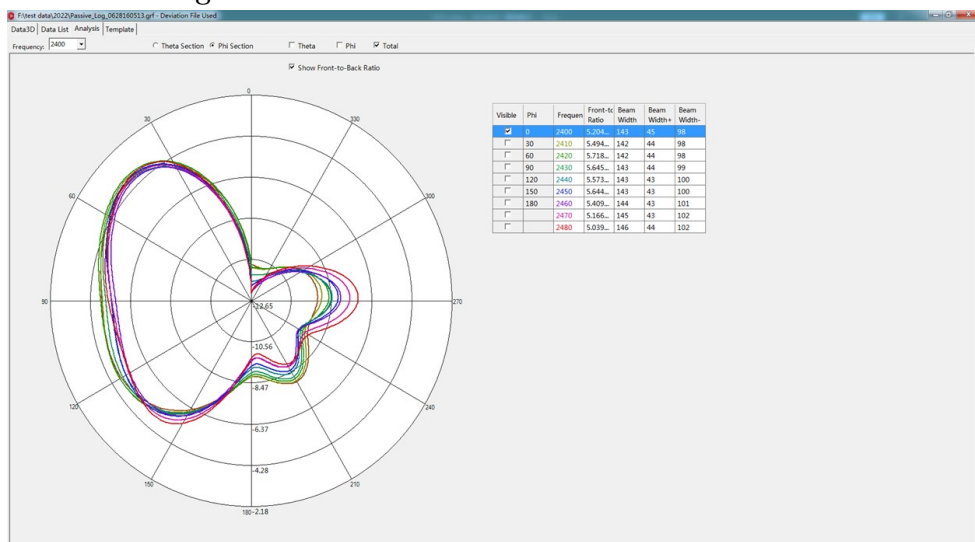
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Phi=90.00deg

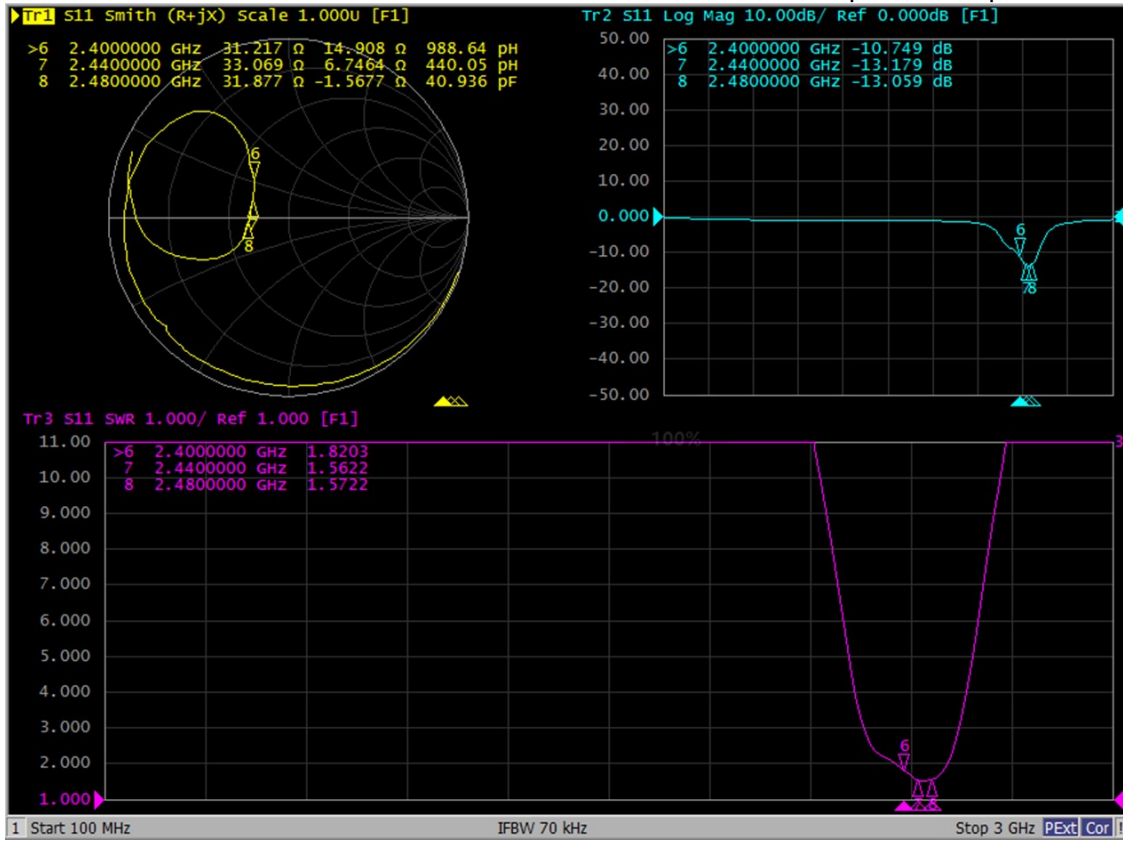


Phi=0.00deg





右耳 BT 天线阻抗参数 auris dextra BT Antenna impedance parameter



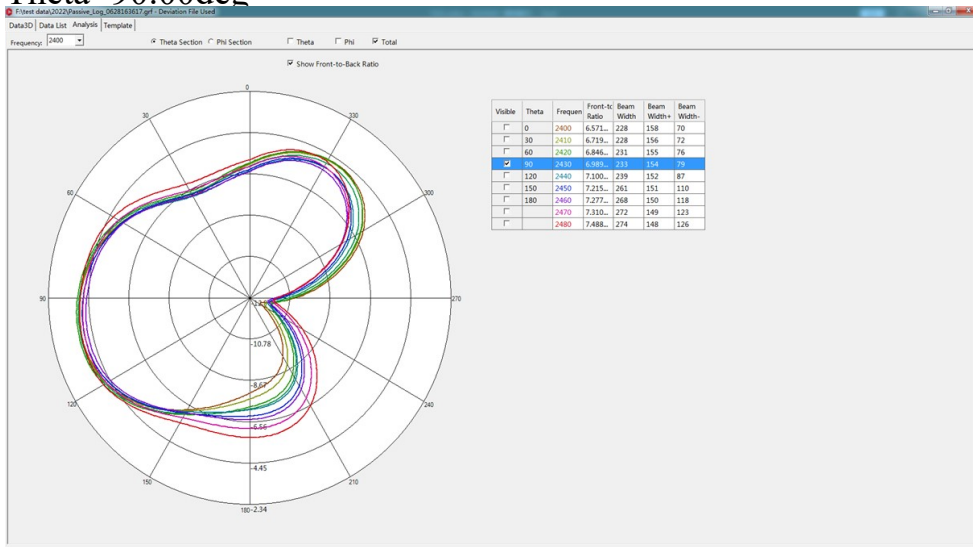
右耳 BT 天线效率和增益 auris dextra BT Antenna efficiency and gain:

2400-2480 MHz R			
频点 MHz	效率%	效率(dB)	增益(dBi)
2400	22.4%	-6.5	-3.79
2410	22.8%	-6.4	-3.72
2420	22.9%	-6.4	-3.27
2430	23.4%	-6.3	-3.05
2440	23.9%	-6.2	-2.91
2450	23.5%	-6.3	-2.82
2460	22.9%	-6.4	-2.80
2470	23.3%	-6.3	-2.65
2480	22.8%	-6.4	-2.64
平均值	23.1%	-6.4	-3.07

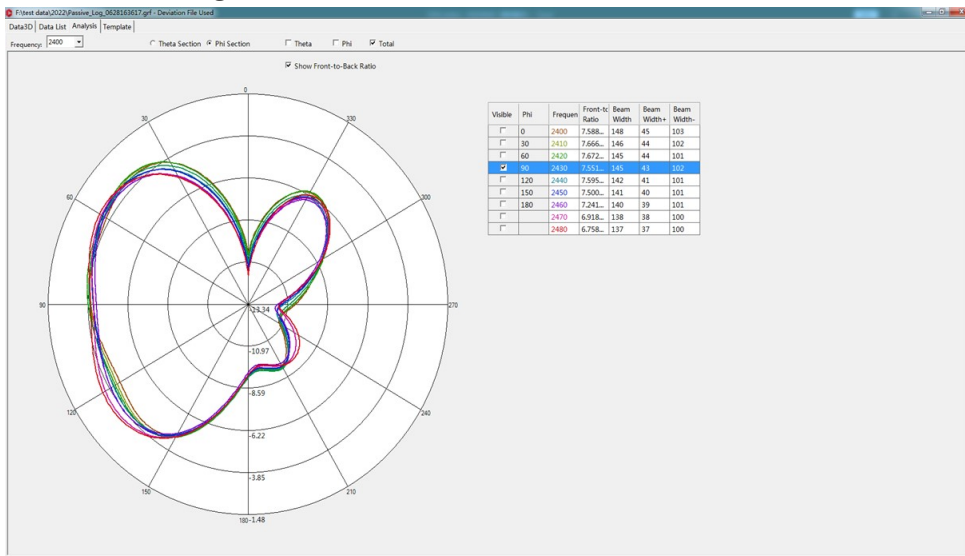


右耳天线无源方向图 auris dextra Antenna passive pattern

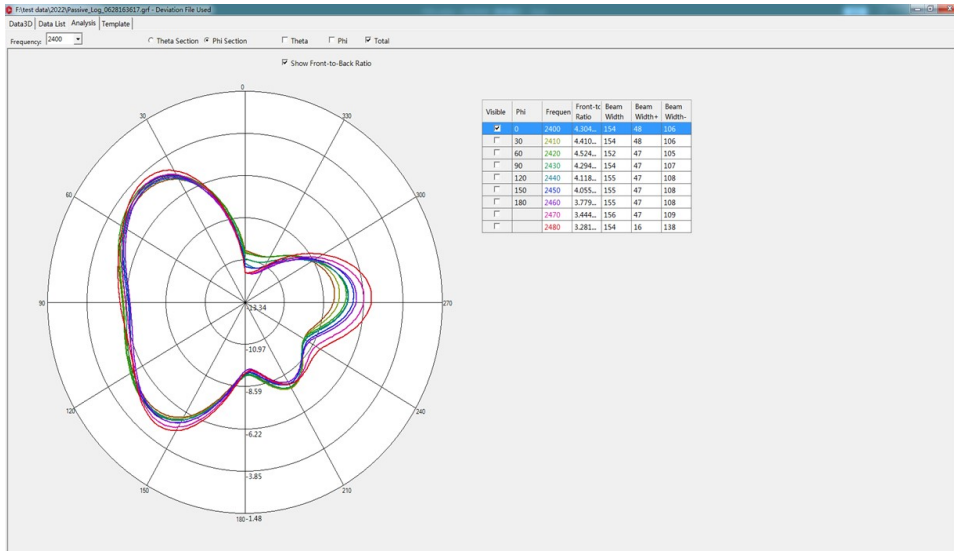
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Phi=90.00deg

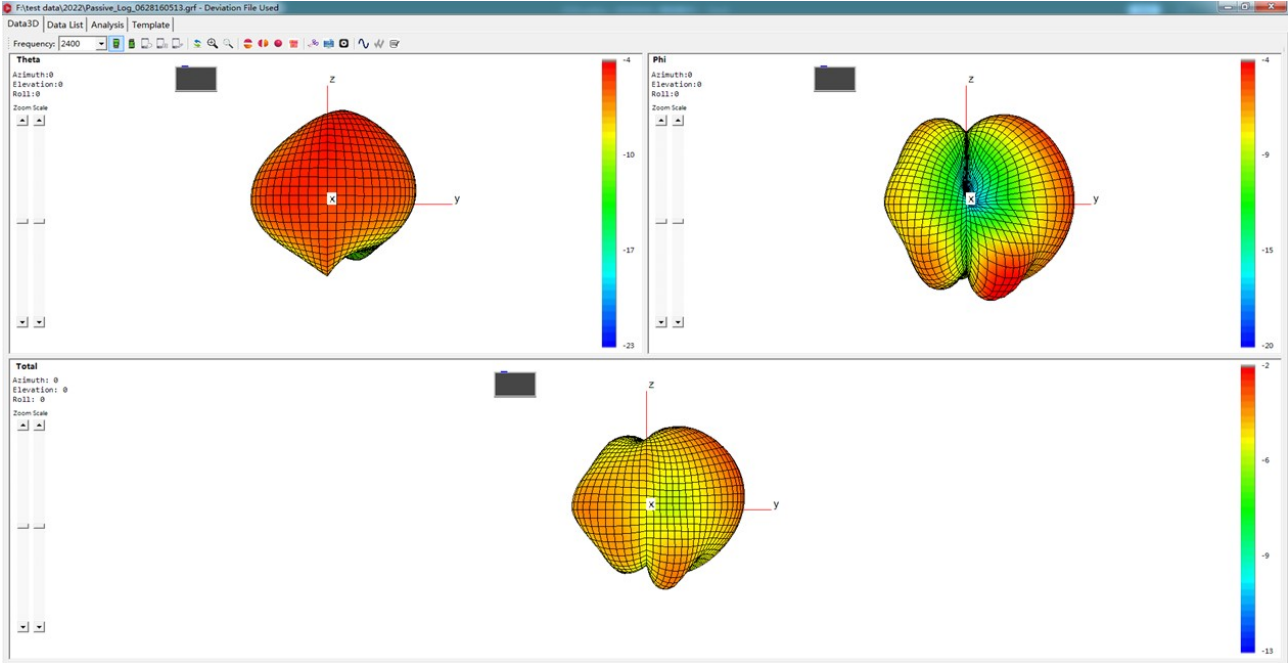


Phi=0.00deg

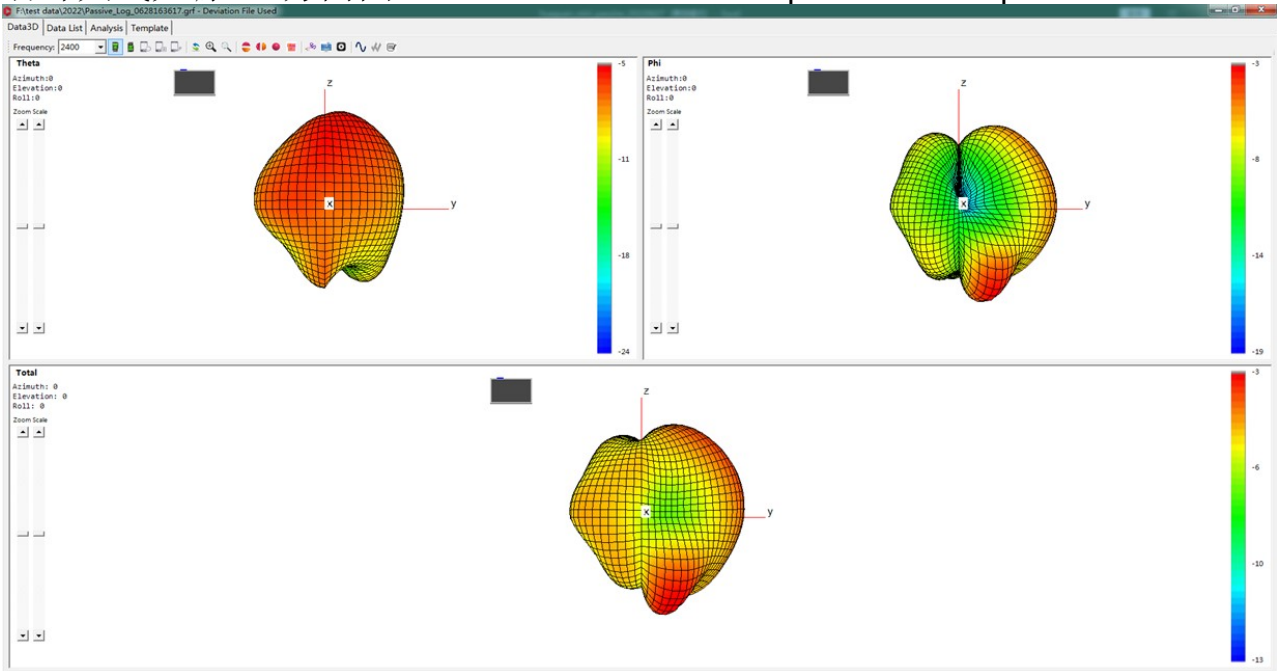




左耳天线无源 3D 方向图
left ear Antenna passive 3D pattern



右耳天线无源 3D 方向图 auris dextra Antenna passive 3D pattern





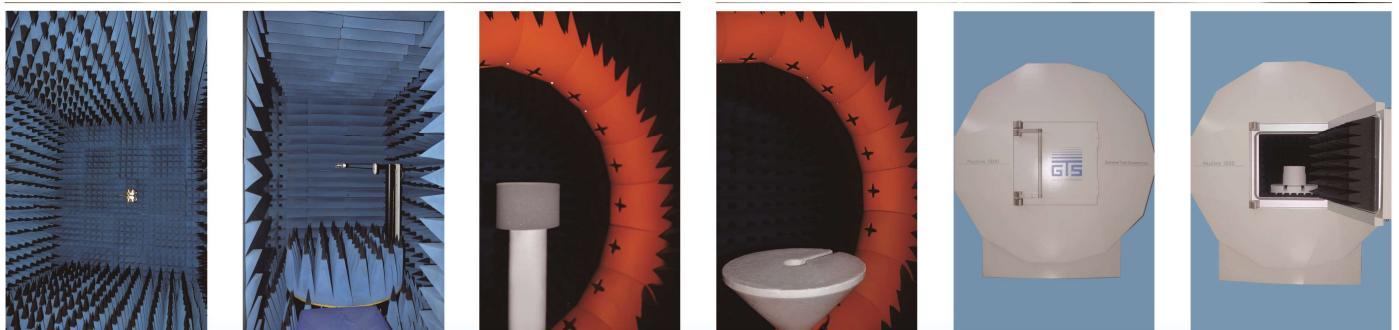
二：BT 天线 3D 暗室数据 BT ANT 3D darkroom data

自由空间	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	0.0	-84.1
	CH 39	1.5	-84.6
	CH 78	1.4	-84.2

自由空间	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	0.0	-83.7
	CH 39	1.6	-84.1
	CH 78	0.9	-84.6

人头耳	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	-2.7	-81.0
	CH 39	-2.4	-81.8
	CH 78	-2.8	-80.1

人头耳	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	-2.5	-80.6
	CH 39	-2.2	-81.6
	CH 78	-3.0	-81.4

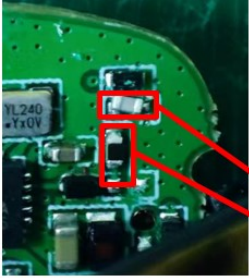


OTA Standard Chamber

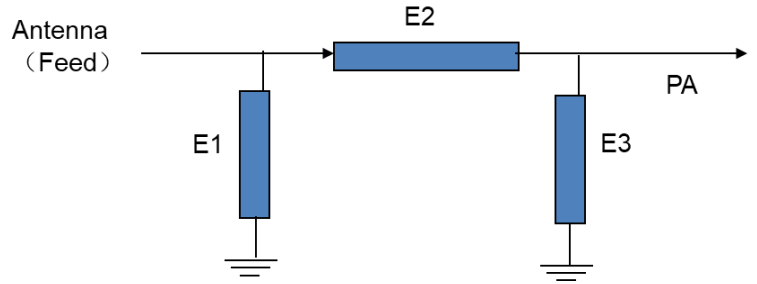


三：匹配电路 building-out circuit

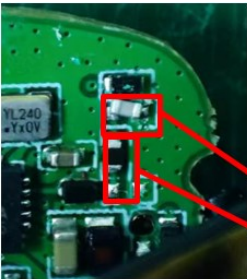
左耳天线匹配电路 Left ear antenna matching circuit:



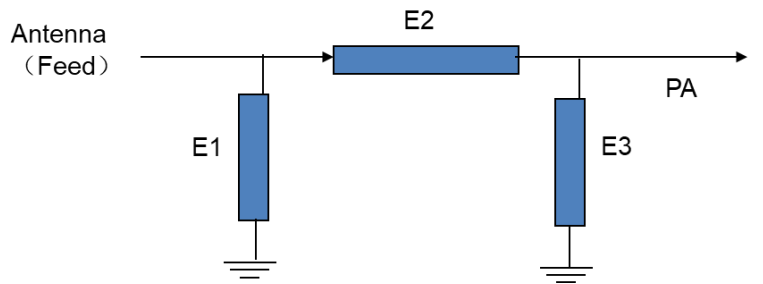
左	
Element	Value
E1	2.4pF
E2	0Ω
E3	N/A



右耳天线匹配电路: Right ear antenna matching circuit

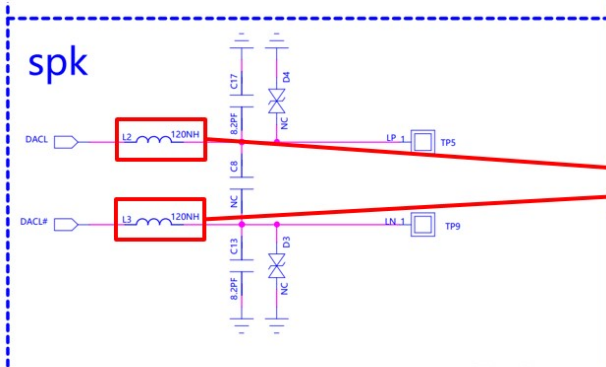


右	
Element	Value
E1	2.4pF
E2	0Ω
E3	N/A

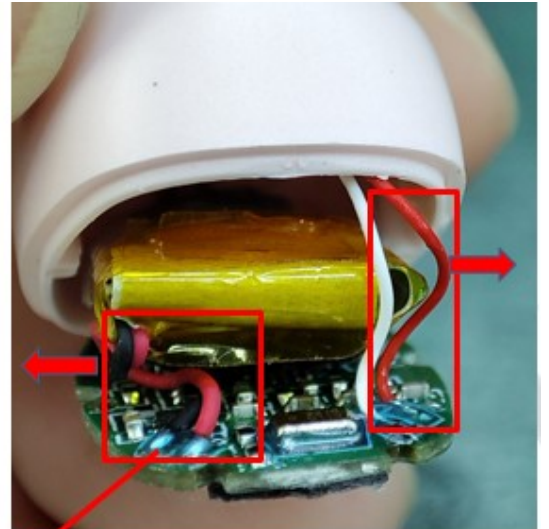
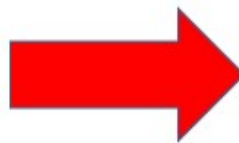
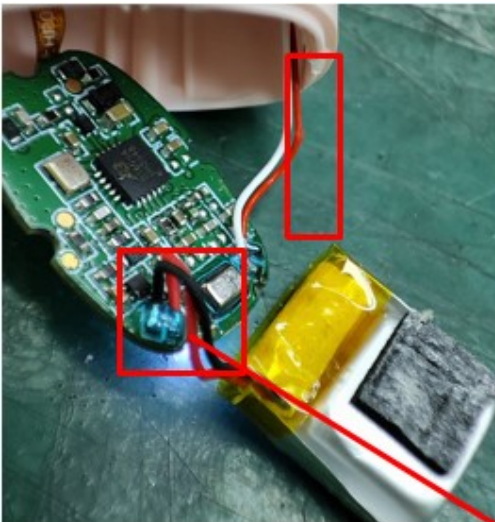
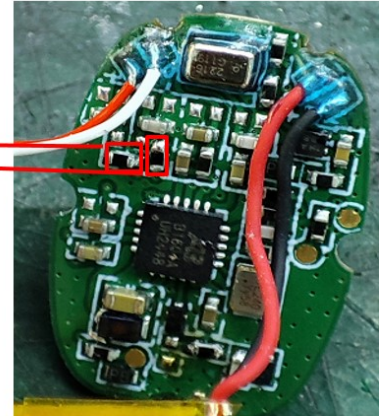




四：环境处理 environmental manipulation



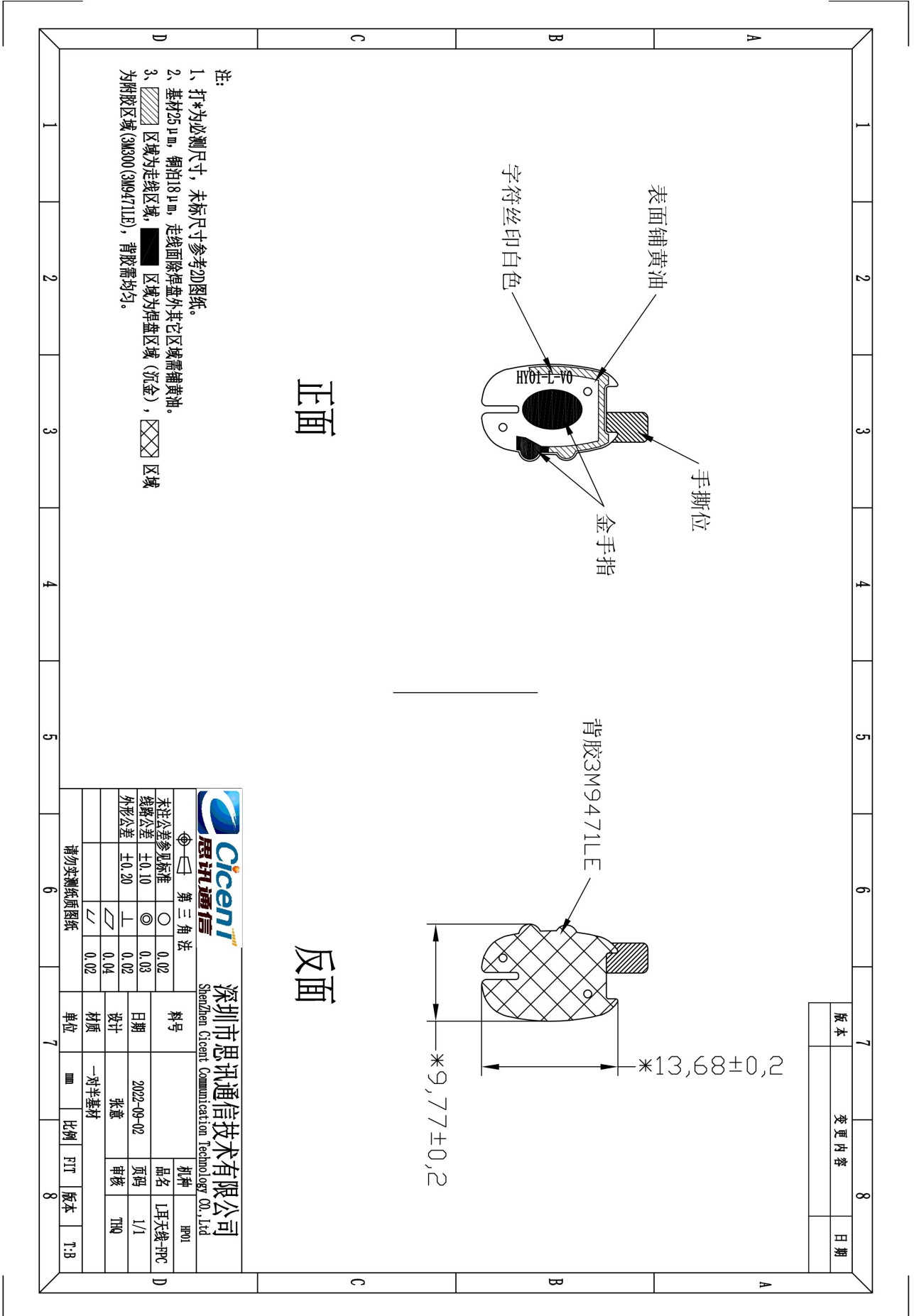
此处物料
L2/L3改为0Ω

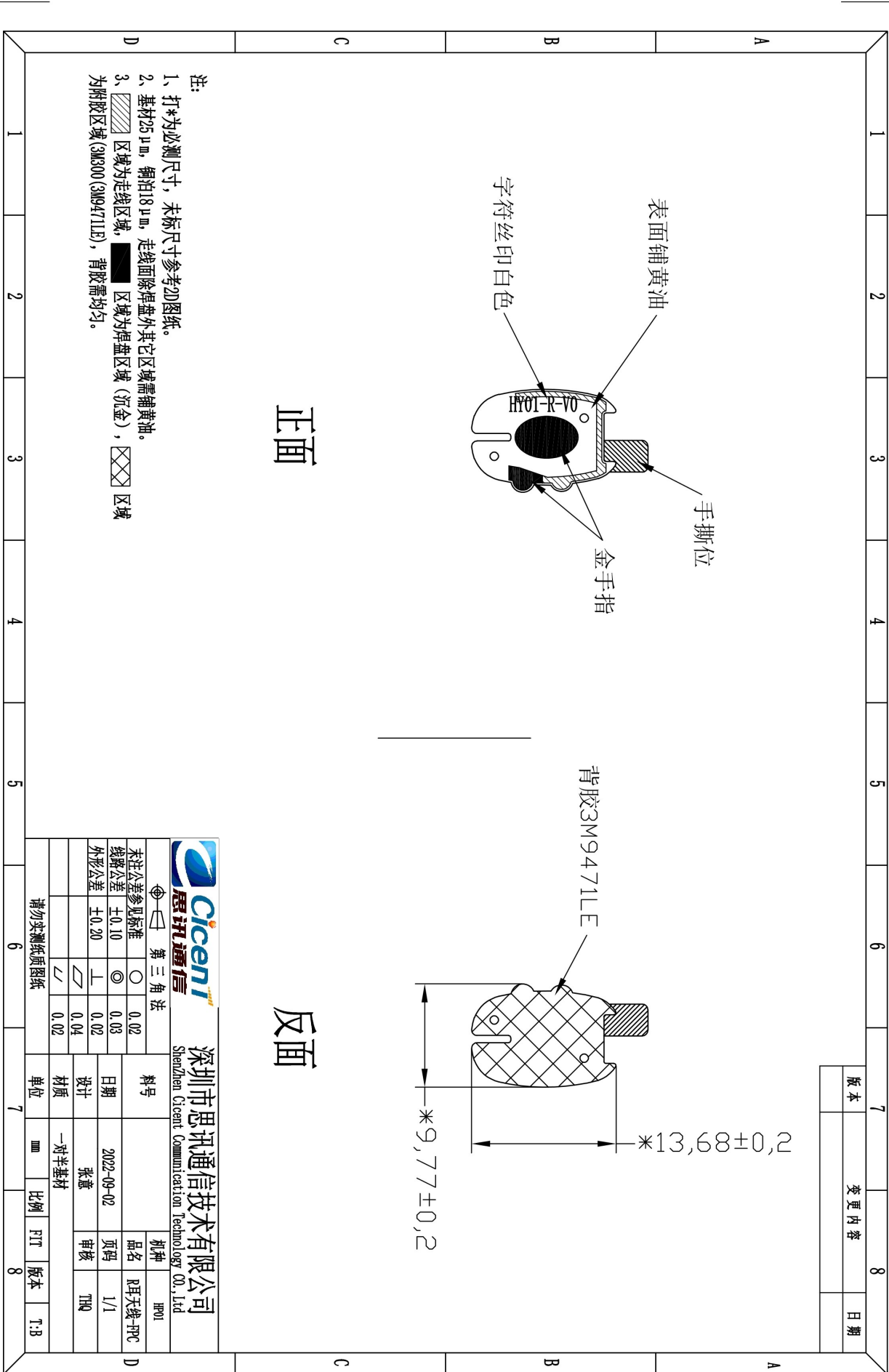


1、电池线长13mm，并缠绕三圈（一定要缠绕！否则性能变差），然后把电池线多出部分压倒电池与主板之间并靠外侧。 2、喇叭线长25mm，不缠绕，按图中靠外侧正常装机即可。

1. The battery wire is 13mm long and is wound three times (be sure to be wound! Otherwise performance deteriorates), and then push the extra part of the battery wire between the battery and the motherboard and on the outside. 2 Horn wire length 25mm, not winding, according to the figure on the outside of the normal installation can be.

五：结构图档





- 注:
- 1、打*为必测尺寸, 未标尺寸参考2D图纸。
 - 2、基材25 μm, 铜泊18 μm, 走线面除焊盘外其它区域需铺黄油。
 - 3、▨ 区域为走线区域, ■ 区域为焊盘区域 (沉金), ⊠ 区域为附胶区域 (3M300 3M9471LE), 背胶需均匀。

正面

反面

7	8
版本	变更内容
	日期

Cicent 思讯通信
 Shenzhen Cicent Communication Technology Co., Ltd

深圳市思讯通信技术有限公司

第三角法	料号	机种	RP01
未注公差参见标准	日期	品名	RFT天线-PPC
线性公差 ±0.10	2022-09-02	页码	1/1
外形公差 ±0.20	设计	审核	TRQ
	张意		
	材质		
	单位	一对半基材	
	mm		
	比例	1:1	版本
	FTT		T:3

请勿实测纸质图纸