



天线规格书

Antenna Part Specification

项目名称: Project name:	HS01
天线名称: Material category:	BT 天线 BT antenna
国光料号: GGEC Part Number:	EAN0052502
思讯料号: Cicent Part Number:	102BK3F2147
天线类型: Antenna type:	PIFA
制造商名称: Manufacturer:	深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd.
制造商地址: Manufacturer address:	深圳市宝安区创业二路东联大厦 A 座 505-506 505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
版本号: Version:	V6.0
日期: Date:	2025.9.16



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变更记录栏 Change record			
编制/变更日期 Compile / change date	变更理由 Reason for change	变更内容 Changed content	版本 Version
2025.9.16	量产天线 Mass-produced antenna	量产天线 Mass-produced antenna	V6.0



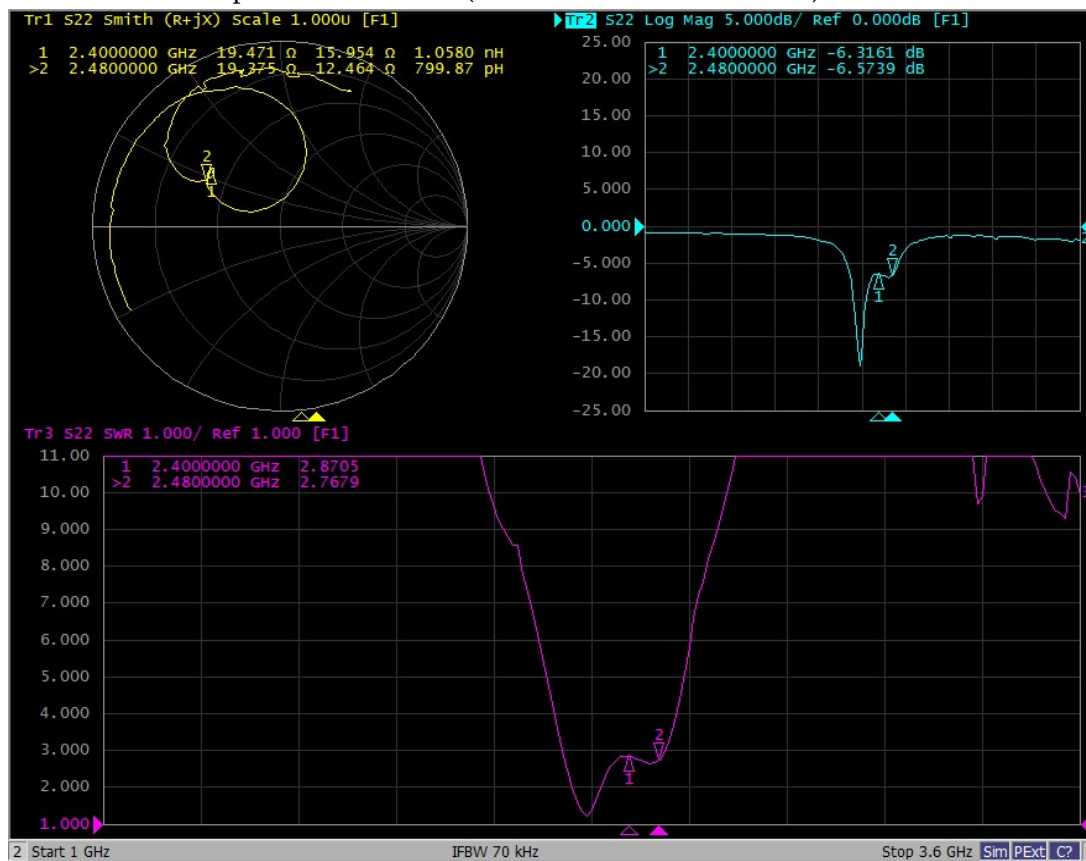
一：无源测试报告 The report of passive data



Agilent E5071C

天线 S11 参数：（左耳-自由）

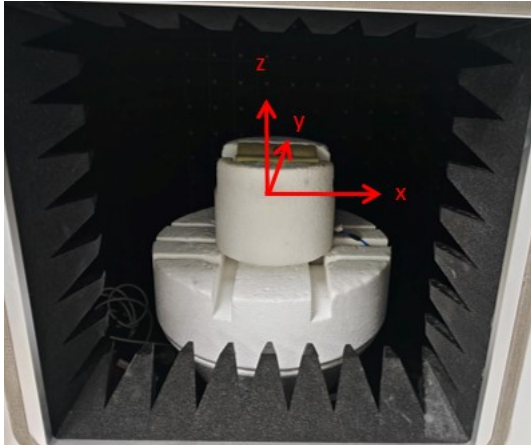
Antenna S11 parameters: (The Left Ear -Free)





暗室测试对应坐标系:

Coordinate system corresponding to darkroom testing:

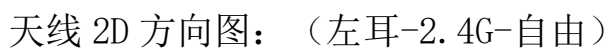


天线效率和增益: (左耳-2.4G-自由)

Antenna efficiency and gain: (The Left Ear -2.4G-Free)

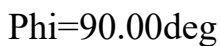
2.4G			
频点 frequency (MHz)	efficiency (%)	效率 efficiency (dB) 效率	增益 gain(dBi)
2400	12.05	-9.19	-5.57
2410	12.22	-9.13	-5.60
2420	12.14	-9.16	-5.73
2430	11.92	-9.24	-5.89
2440	11.70	-9.32	-5.74
2450	11.39	-9.44	-5.64
2460	11.45	-9.41	-5.58
2470	11.37	-9.44	-5.76
2480	11.18	-9.51	-5.95

3D Antenna radiation pattern: (The Left Ear -2.4G-Free)



2D Antenna radiation pattern: (The Left Ear -2.4G-Free)

Theta=90.00deg





☒ Data/ID ☒ Data List ☒ Analysis ☒ Template

Frequency: 2400 ☐ Spline ☐ Theta Section ☒ Phi Section ☐ Theta ☒ Phi ☐ Total

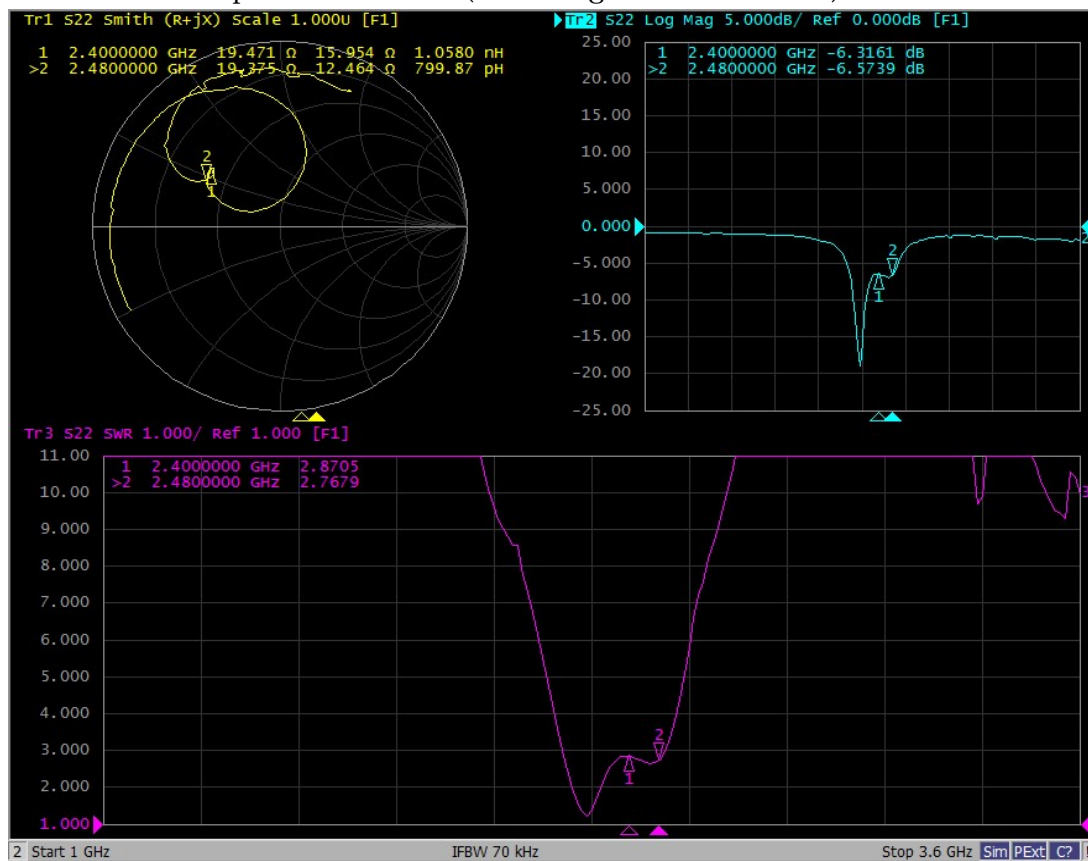
☐ Select All ☒ Show Extra Data

Visible	Phi	Frequency	Front to Beam Ratio	Beam Width	Beam Width+	Ave(dB)	Min(dB)	Max(dB)
☒	0	2400	3.336	39	22	17	-5.58	-13.18
☒	19	2410	3.377	38	21	17	-6.48	-13.01
☒	60	2430	3.254	37	21	16	-8.41	-12.87
☒	90	2430	3.215	37	21	16	-9.4	-12.9
☒	120	2440	3.442	37	21	16	-9.39	-12.72
☒	150	2450	3.671	37	21	16	-9.44	-12.64
☒	180	2460	3.658	37	21	16	-9.5	-12.56
☒	210	2470	4.056	38	21	17	-9.74	-12.66
☒	240	2480	4.154	38	21	17	-10	-12.9



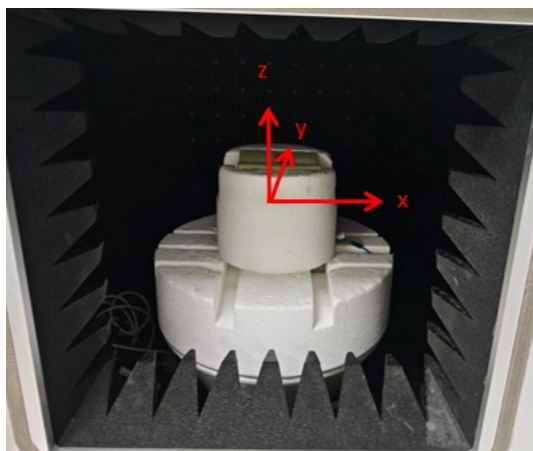
天线 S11 参数: (右耳-自由)

Antenna S11 parameters: (The Right Ear -Free)



暗室测试对应坐标系:

Coordinate system corresponding to darkroom testing:





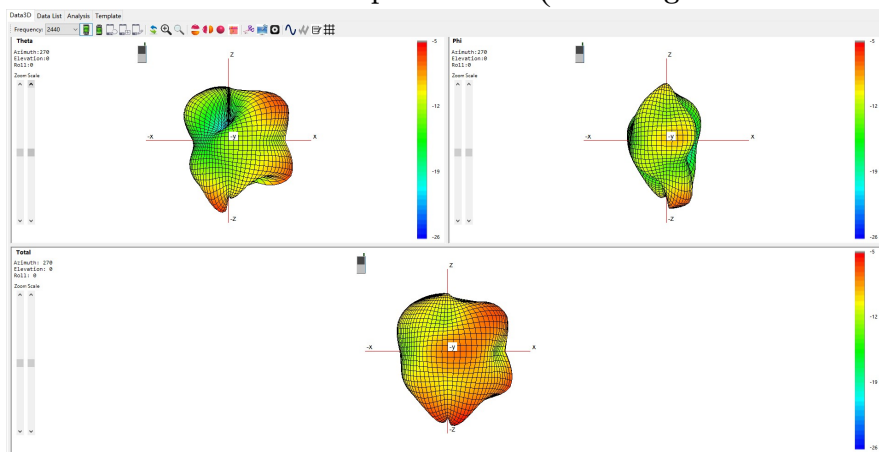
天线效率和增益：（右耳-2.4G-自由）

Antenna efficiency and gain: (The Right Ear -2.4G-Free)

2.4G			
频点 frequency (MHz)	efficiency (%)	效率 efficiency (dB) 效率	增益 gain(dBi)
2400	12.05	-9.19	-5.57
2410	12.22	-9.13	-5.60
2420	12.14	-9.16	-5.73
2430	11.92	-9.24	-5.89
2440	11.70	-9.32	-5.74
2450	11.39	-9.44	-5.64
2460	11.45	-9.41	-5.58
2470	11.37	-9.44	-5.76
2480	11.18	-9.51	-5.95

天线 3D 方向图：（右耳-2.4G-自由）

3D Antenna radiation pattern: (The Right Ear -2.4G-Free)

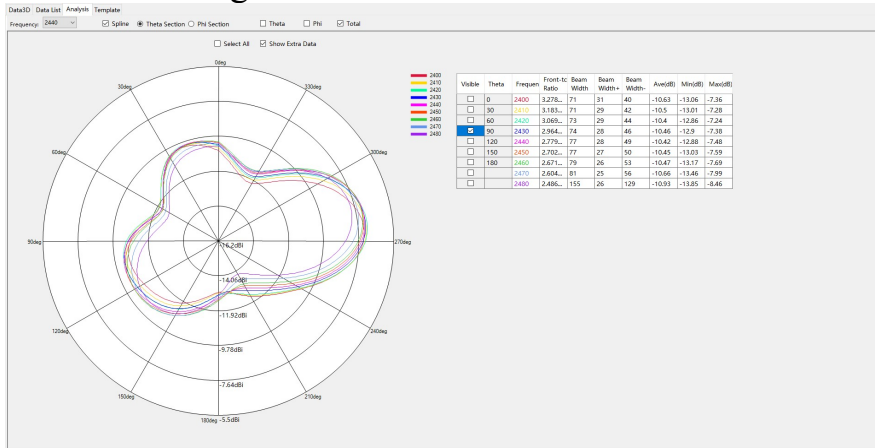




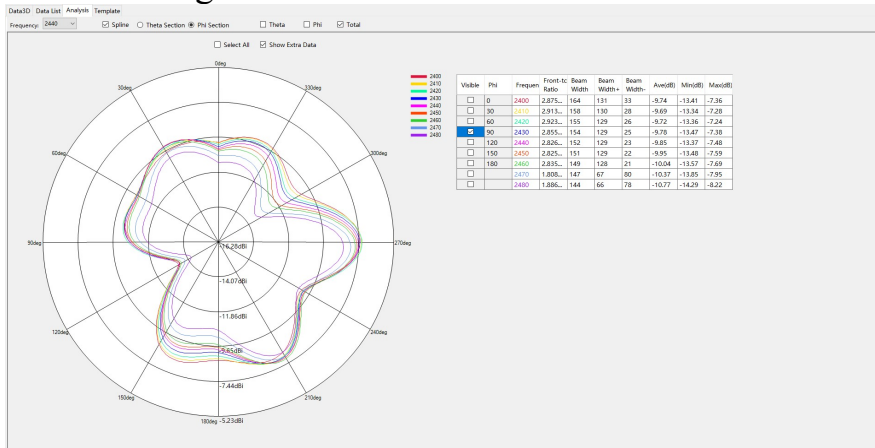
天线 2D 方向图: (右耳-2.4G-自由)

2D Antenna radiation pattern: (The Right Ear -2.4G-Free)

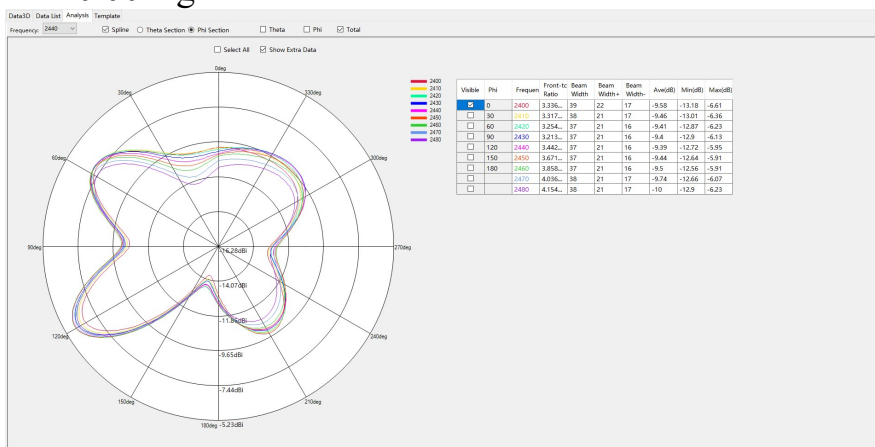
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg



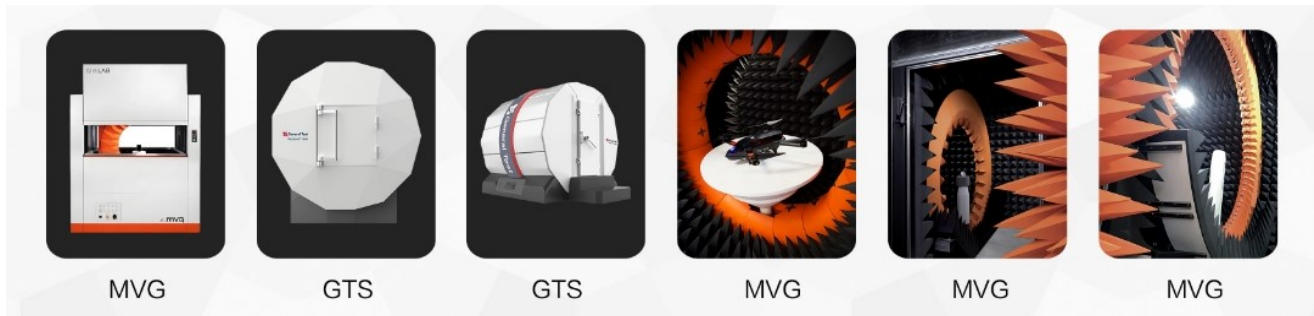


二：天线有源测试数据 Antenna active test data

传导测试	Channel	功率 (dBm)	灵敏度 (dBm)
BT	CH 0	8.8	-92.0
	CH 39	9.0	-92.5
	CH 78	8.9	-92.5

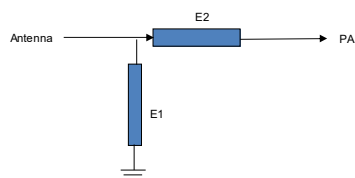
B#	Channel	自由	
		TRP (dBm)	TIS (dBm)
L	CH 0	-0.9	-80.9
	CH 39	-1.3	-80.8
	CH 78	-1.4	-81.5

B#	Channel	自由	
		TRP (dBm)	TIS (dBm)
R	CH 0	-0.9	-81.3
	CH 39	-0.7	-81.4
	CH 78	-0.3	-82.0

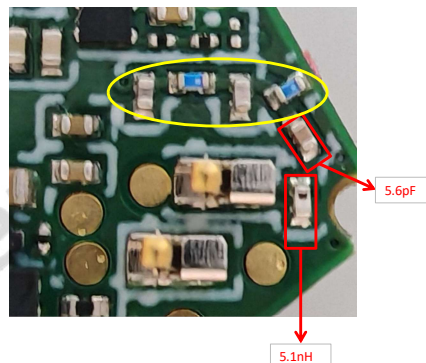


OTA Standard Chamber

三：天线匹配电路 Antenna matching circuit



标注	值
Element	Value
E1(0402)	5.1nH
E2(0201)	5.6pF



注：当前板子黄色椭圆内的匹配都是射频PA端的。

Note: The matches within the yellow ellipse of the current board are all for the RF PA end.



五：天线结构图档 Antenna structure diagram file

