



天线规格书

Antenna

Part

Specification

项目名称: Project name:	CG02
天线名称: Material category:	L-BT 天线 L-BT antenna
客户料号: Customer part number:	EAN0053901
供应商料号: Supplier part number:	102BK3F2202
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 ,A Block,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
版本号: Version:	V3.0
日期: Date:	2025.09.19



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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
2025.07.25	初版发行 First edition	初版发行 First edition	V1.0
2025.08.20	天线优化 Antenna optimization	天线修改资料更新 Antenna modification data update	V2.0
2025.09.19	更新最新状态资料 Update the latest status information	更新最新状态资料 Update the latest status information	V3.0



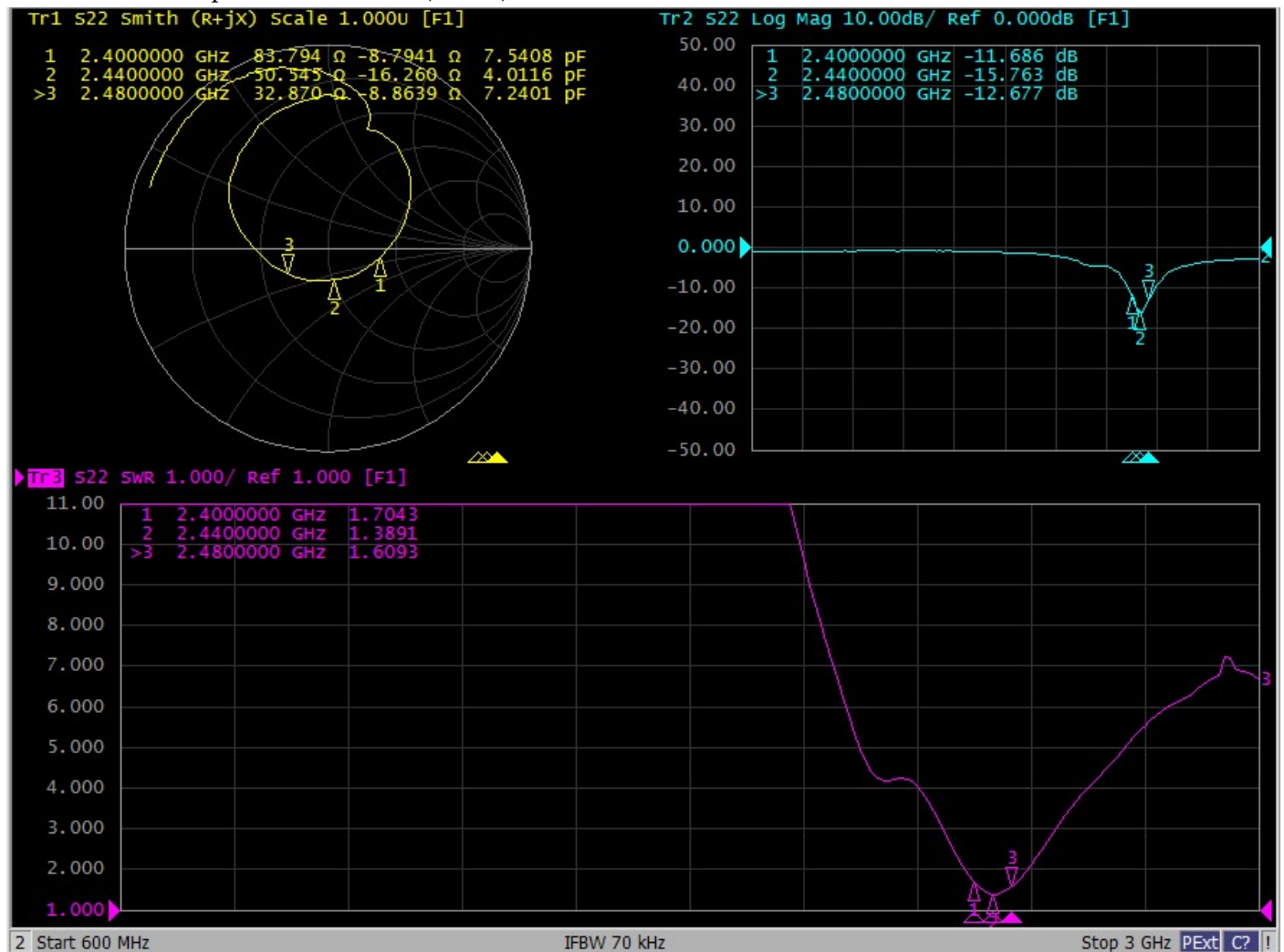
一：无源测试报告 The report of passive data



Agilent E5071C

天线 S11 参数：（自由）

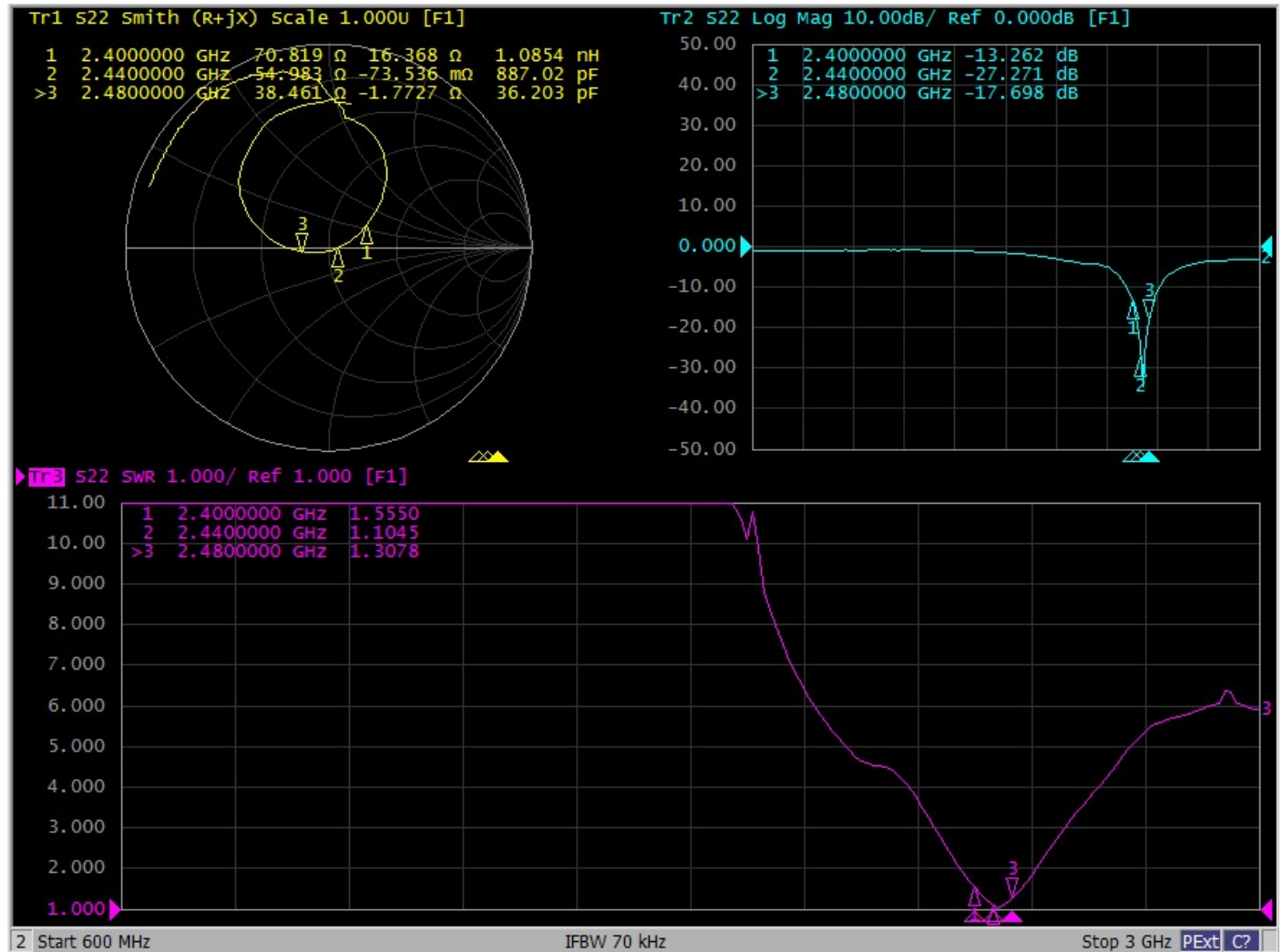
Antenna S11 parameters: (Free)





天线 S11 参数: (头模)

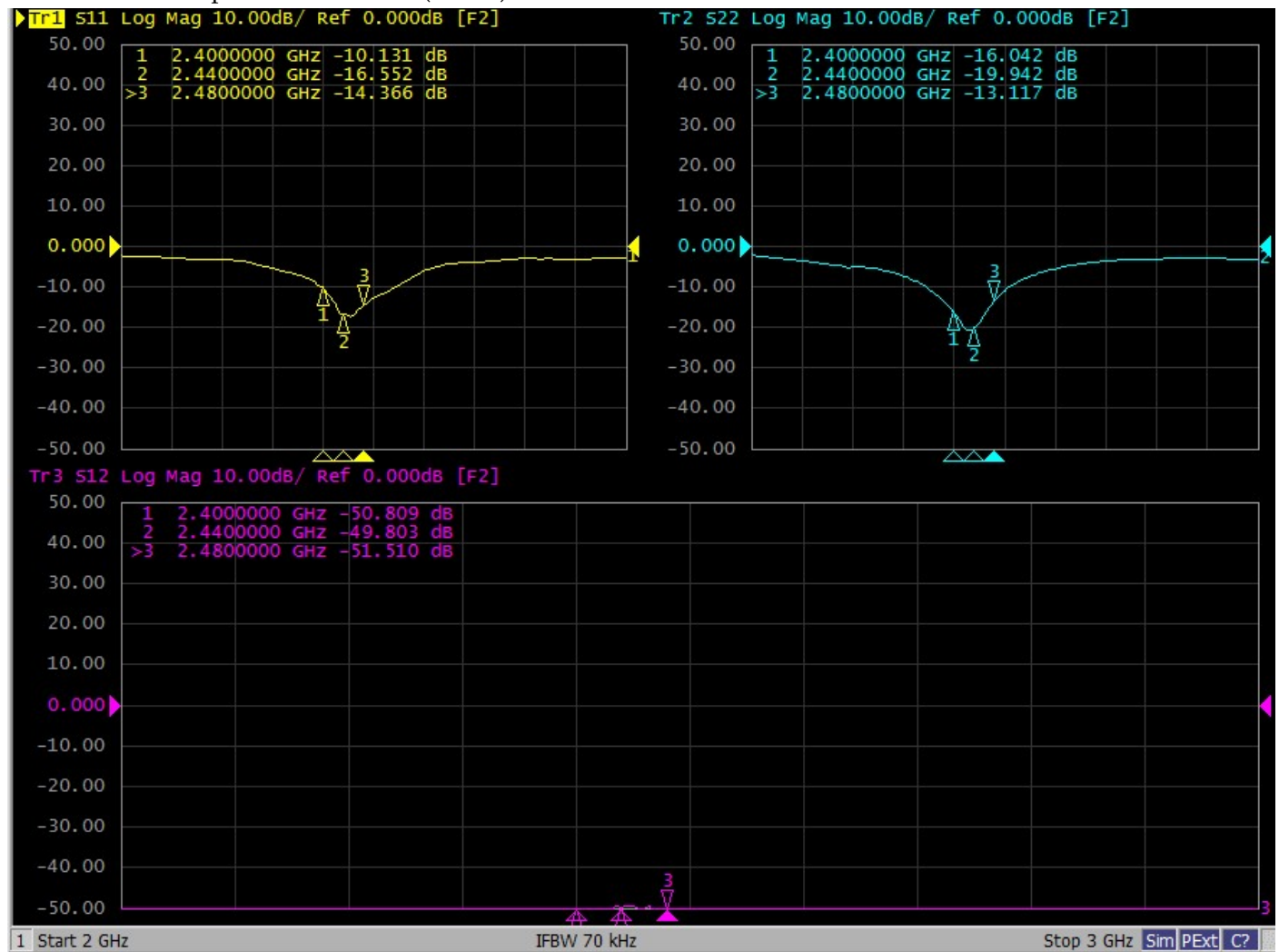
Antenna S11 parameters: (Head)





天线 S12 参数: (头模)

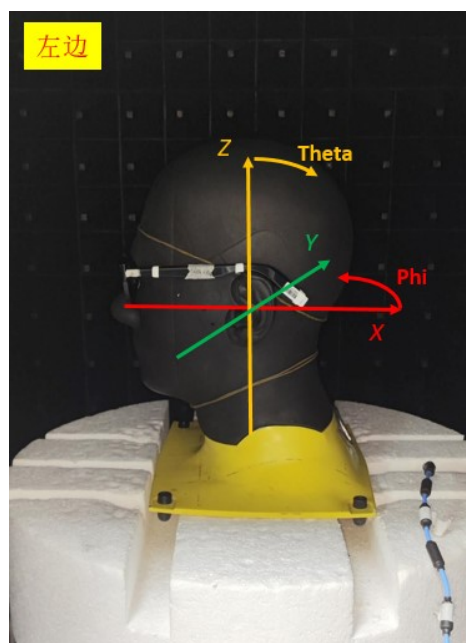
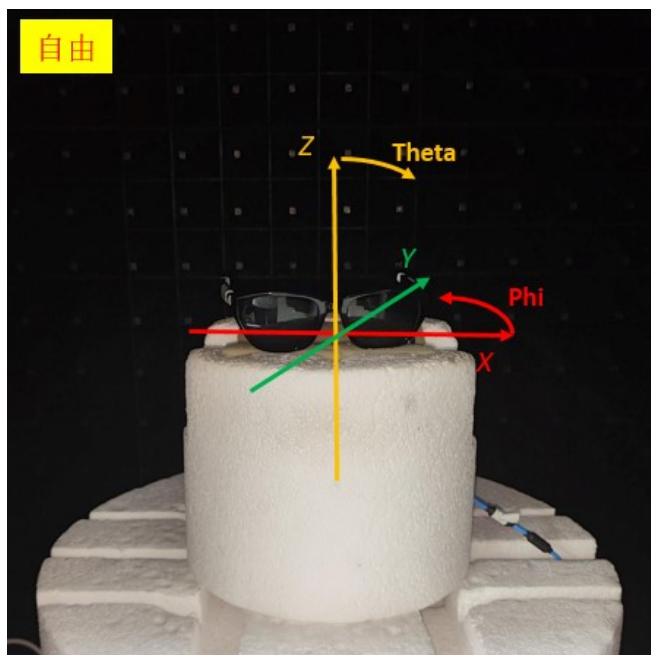
Antenna S12 parameters: (Head)





暗室测试对应坐标系:

Coordinate system corresponding to darkroom testing:



天线效率和增益: (自由)

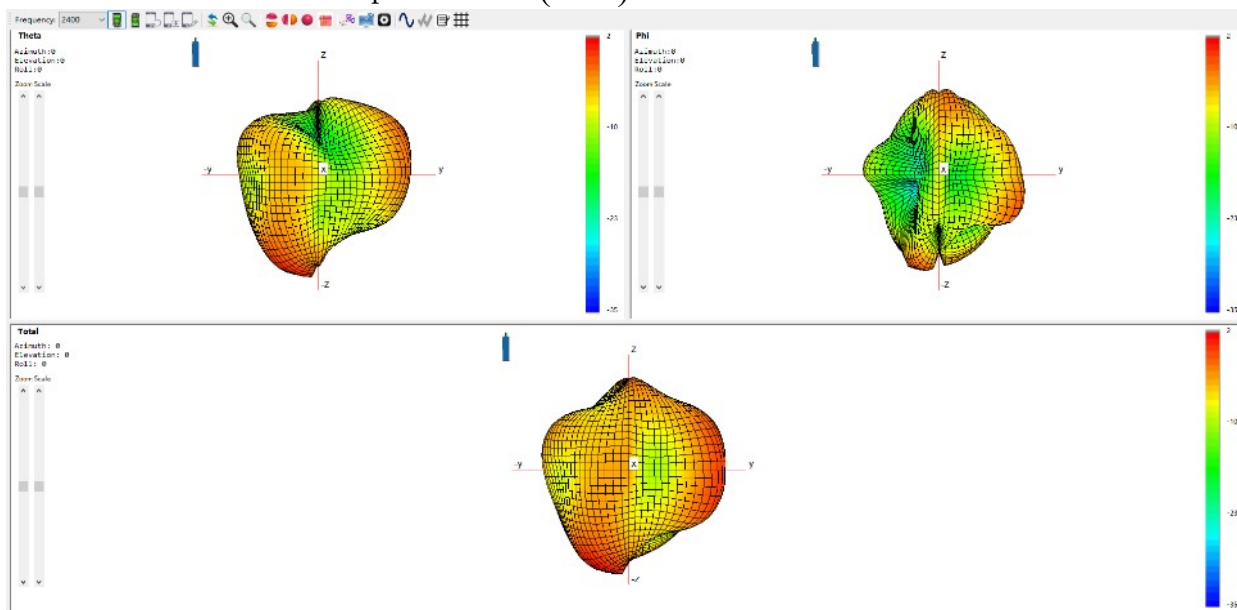
Antenna efficiency and gain: (Free)

L			
频点 frequency (MHz)	增益 gain (dBi)	效率 efficiency (dB)	效率 efficiency (%)
2400	1.0	-4.5	35.5
2410	1.3	-4.4	36.5
2420	1.5	-4.3	37.3
2430	1.6	-4.1	38.7
2440	1.6	-4.0	39.5
2450	1.7	-4.1	38.7
2460	1.8	-4.3	37.3
2470	1.9	-4.4	36.2
2480	1.9	-4.6	35.0
平均值 AVG	1.6	-4.3	37.2



天线 3D 方向图: (自由)

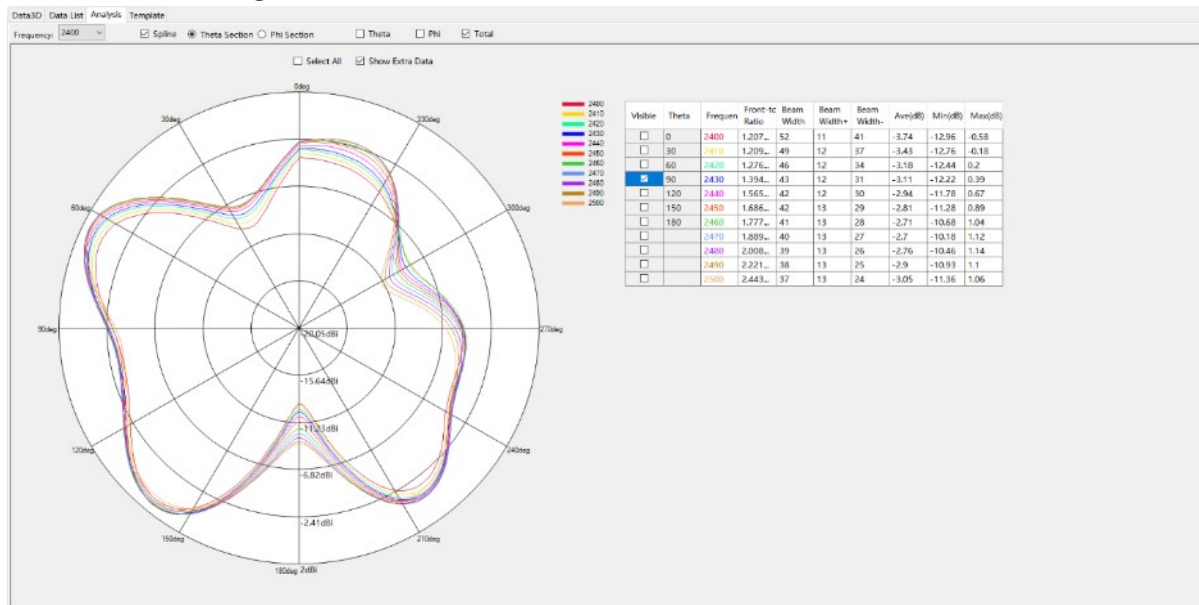
3D Antenna radiation pattern: (Free)



天线 2D 方向图: (自由)

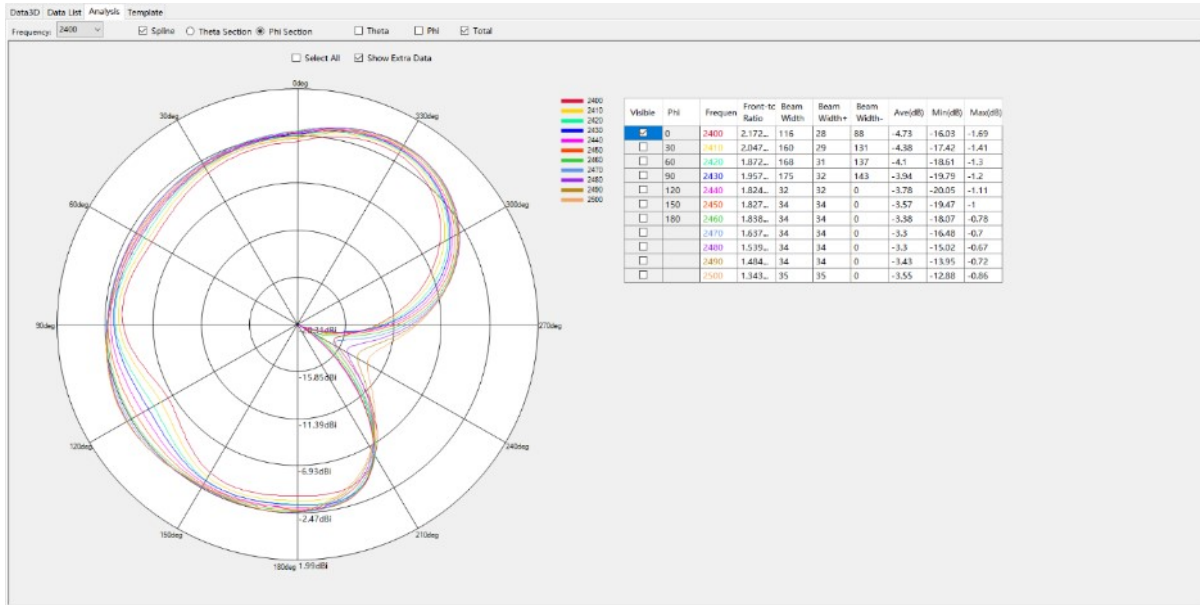
2D Antenna radiation pattern: (Free)

Theta=90.00deg

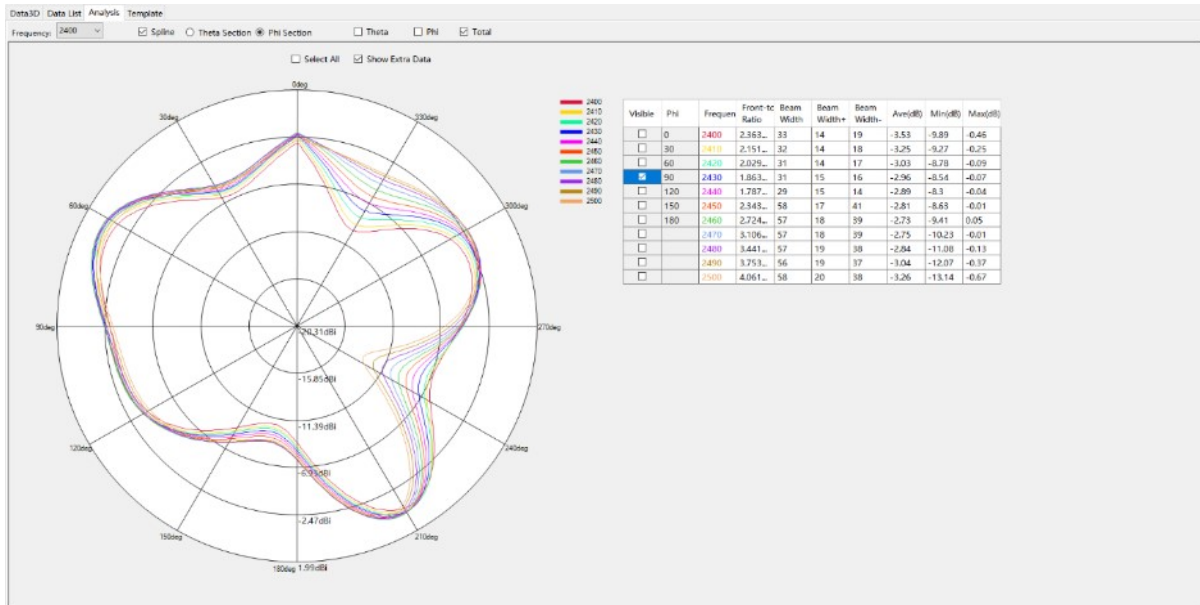




Phi=0.00deg



Phi=90.00deg





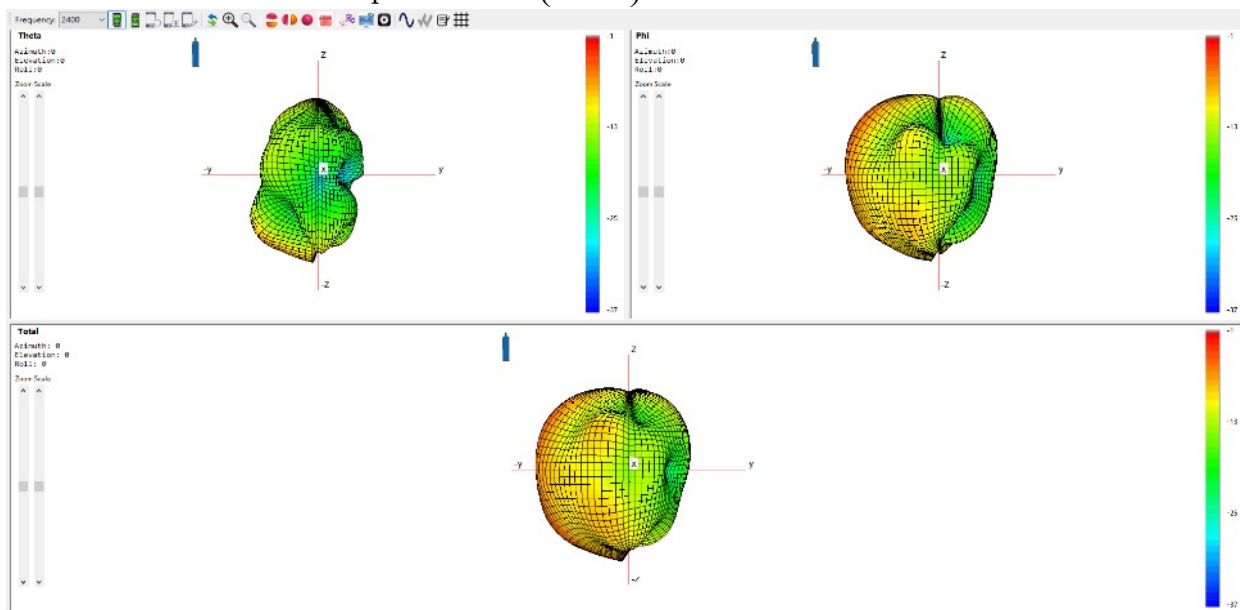
天线效率和增益：（头模）

Antenna efficiency and gain: (Head)

L				
频点 frequency (MHz)	增益 gain (dBi)	效率 efficiency (dB)	效率 efficiency (%)	UHRP/TRP
2400	-1.5	-10.5	8.8	51.0
2410	-1.4	-10.2	9.5	51.3
2420	-1.3	-10.0	10.0	51.7
2430	-1.2	-9.5	11.2	52.5
2440	-1.1	-9.4	11.6	52.8
2450	-1.1	-9.6	11.0	53.1
2460	-1.0	-9.8	10.4	53.1
2470	-1.1	-10.2	9.6	53.7
2480	-1.1	-10.6	8.6	53.9
平均值 AVG	-1.2	-10.0	10.1	52.6

天线 3D 方向图：（头模）

3D Antenna radiation pattern: (Head)

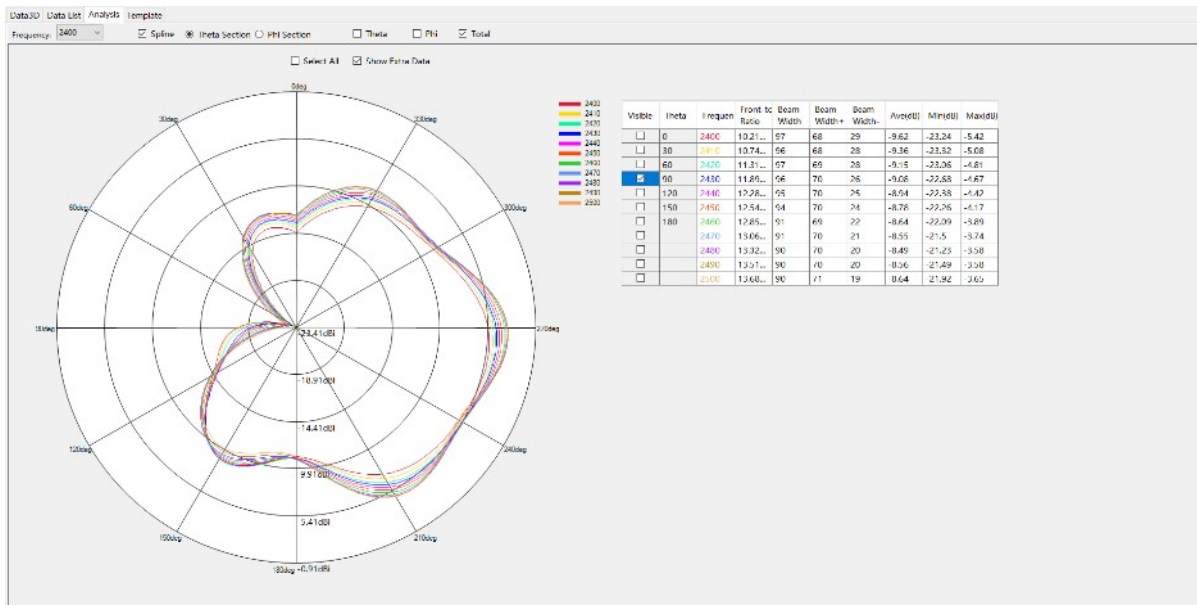




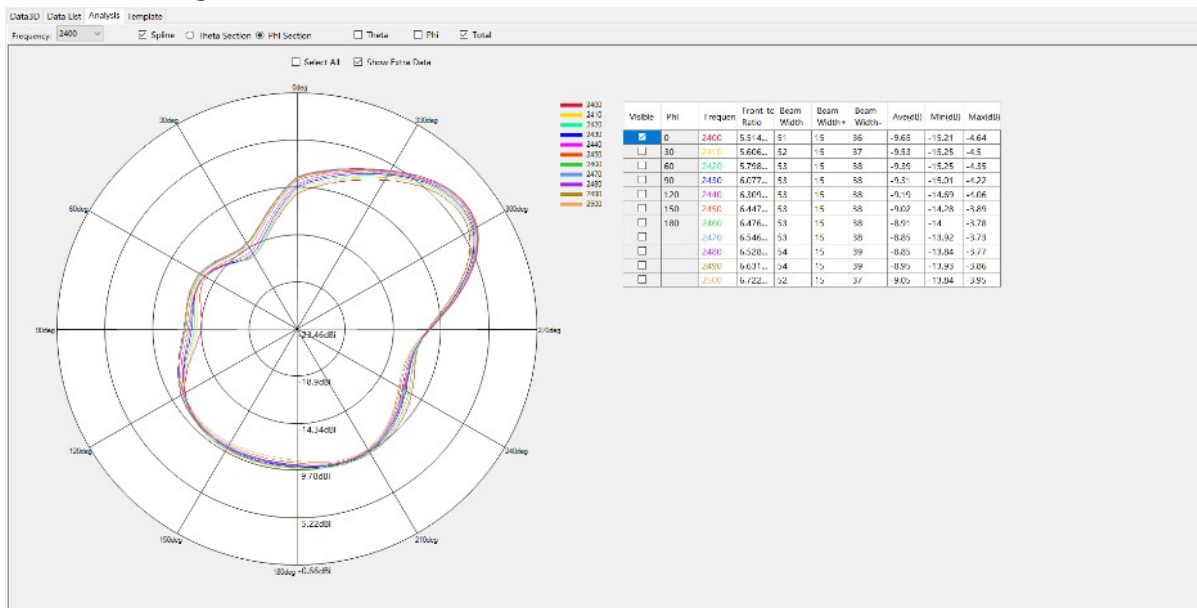
天线 2D 方向图: (头模)

2D Antenna radiation pattern: (Head)

Theta=90.00deg

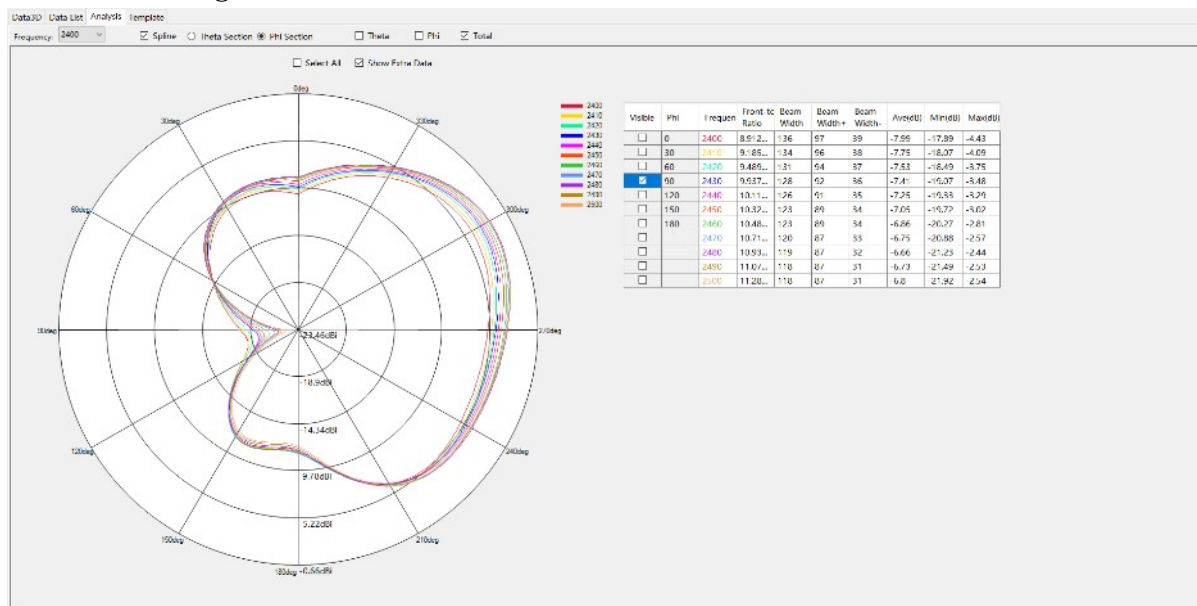


Phi=0.00deg





Phi=90.00deg

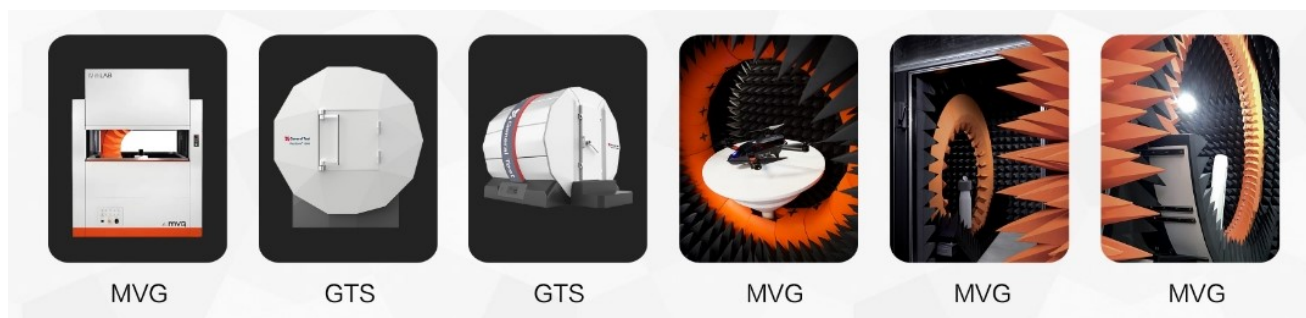




二：天线有源测试数据 Antenna active test data

传导 conduction	Channel	功率 power	灵敏度 sensitivity
L	CH 0	8.9	-95.5
	CH 39	9.1	-96.5
	CH 78	9.0	-96.5

		自由 Free		头模 Head	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	4.4	-91.4	-1.2	-86.6
	CH 39	4.8	-91.7	-0.8	-86.8
	CH 78	4.7	-91.5	-1.2	-86.4



OTA Standard Chamber



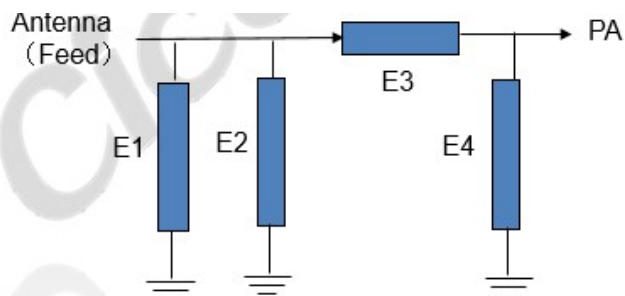
三：天线匹配电路 Matching circuit



Element	value
E1	原ESD管 Original ESD tube
E2	N/C
E3	0Ω
E4	N/C

注：L边主板的匹配未做更换。

Note: The matching of the L-shaped motherboard has not been replaced.





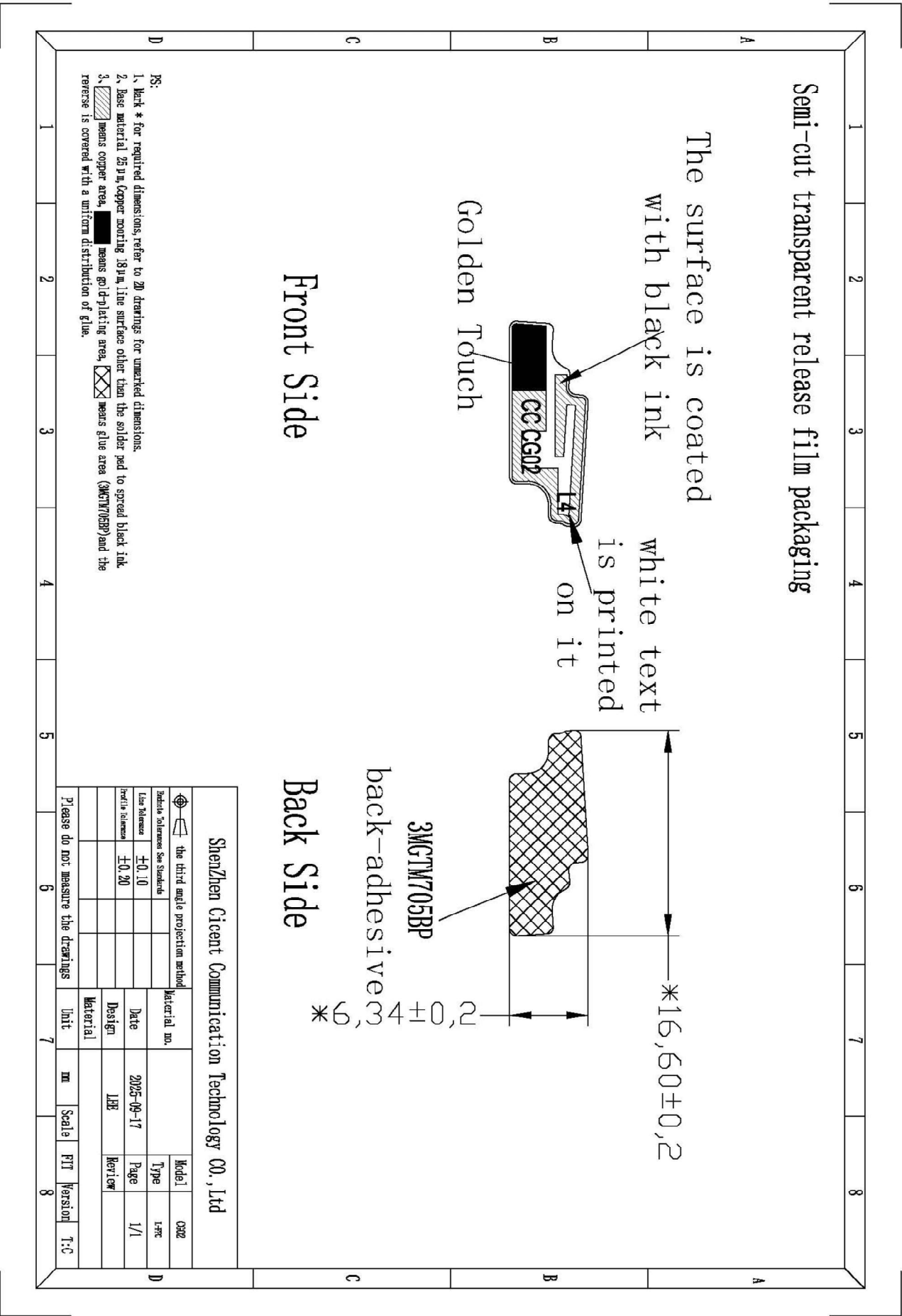
四：天线装配图 Antenna assembly diagram



五：装机环境注意事项 Precautions for installation environment



 思讯通信		深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd	
 第三角法			
未注公差参见标准		机种	GD2
线性公差	±0.10	品名	L-TPC
外形公差	±0.20	页码	1/1
		审核	
请勿实测纸质图纸		材质	
单位	mm	比例	FIT
		版本	T.C





七：样品尺寸检验报告 Sample size inspection report

样品尺寸检验报告
Sample size inspection report

机种型号：Model number:CG02

材质：Material:FPC

日期：Date:20250917

检测项目 Test Item		标准 standard	样品检验状况（值） Sample inspection status (value)					判定 judgment	备注 Remarks
			1	2	3	4	5		
外观 appearance	擦伤 abrasion	依据成品检验 规范 According to the finished product inspection standards	√	√	√	√	√	OK	
	刮伤 scratch		√	√	√	√	√	OK	
	污渍 stain		√	√	√	√	√	OK	
	变形 Variation		√	√	√	√	√	OK	
	其它 other		√	√	√	√	√	OK	
结构尺寸 structural dimensions	A1	16.60±0.20	16.64	16.67	16.55	16.72	16.49	OK	
	A2	6.34±0.20	6.30	6.23	6.38	6.46	6.42	OK	

核准：Approved：张仁存

审核：Review：余华广

测试：Testing：车水兰





可靠性测试reliability test

客customer户		国光	项目名 Project	CG02					
项号 Item No.	可靠性测试项目 Reliability testing project	测试条件及要求 Testing conditions and requirements	标准 standard	测试工具 test tool	测试数量 test quantity	测试结果Test results			备注 Remarks
						OK	NG	NA	
1	盐雾测试salt spray test	在35±2℃的密闭环境中，湿度>85%，PH值在6.5-7.2范围内，用5%±1%的NaCl溶液连续24h盐水喷雾后，取出产品使用清水轻轻的冲洗，常温下放置2h检查外观 In a closed environment of 35 ± 2 ℃, the humidity is>85%, and the PH value is within the range of 6.5-7.2. Use 5% ± 1% NaCl solution to spray for 24 hours, take out the product and gently rinse it with clean water, and place it for 2h at room temperature to check the appearance	产品表面无起泡、氧化、镀层脱落等异常 There are no abnormalities such as bubbles, oxidation, or coating peeling on the surface of the product	盐雾测试仪 Salt mist tester	5	OK			
2	恒温恒湿测试 Constant temperature and humidity test	将被测品放入恒温测试机内，在温度为 55±2℃，湿度93+/-3 % (RH) 条件下放置10h时间；取出样品后常温放置2 小时观察外观 Place the test sample in a constant temperature testing machine and let it sit for 10 hours at a temperature of 55 ± 2 ℃ and a humidity of 93+/-3% (RH); After taking out the sample, let it stand at room temperature for 2 hours to observe its appearance	不允许出现表面起翘、起泡、油漆或镀层脱落 Surface warping, bubbling, paint or coating peeling are not allowed	恒温恒湿箱 Constant temperature and humidity instrument	5	OK			

测试员Tester：车水兰

审核Review：余华广

批准Approved:张仁存