

承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name	由我		
客户项目名 Customer Project Name	BS563	合立讯项目名 Helixun Project Name	BS563
客户编码 Customer P/N		合立讯料号 Helixun P/N	HLX008-BS563-L-V5
频段 Band	2400-2500MHz		
版本号 Version	A0		
设计人信息/Designer Information			
射频工程师 RF Engineer	黄亚飞	电子工程师 EE Engineer	时震浩
结构工程师 ME Engineer	黄亚飞		

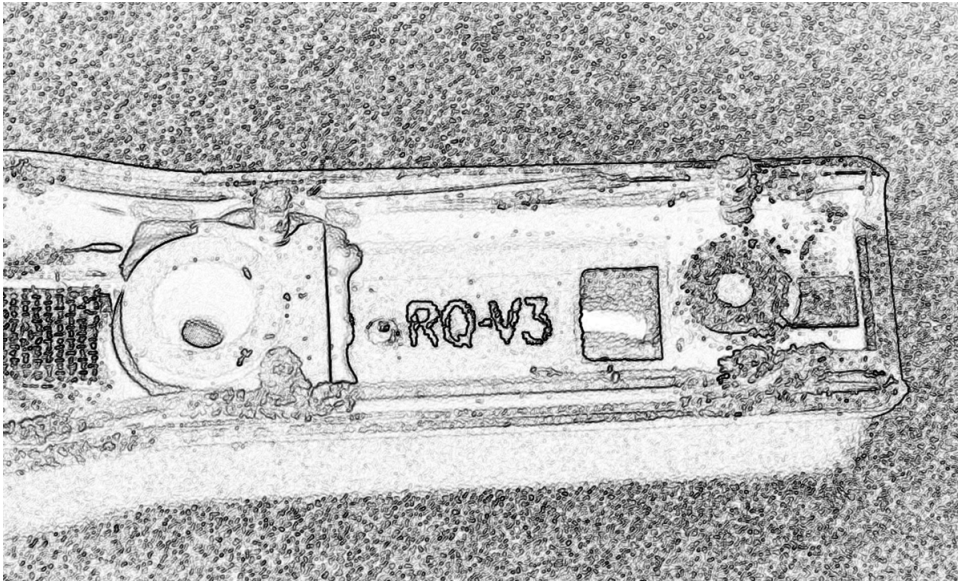
合立讯审批/Helixun Approval			客户批准/Customer Approval		
	制作 Prepared By	审核 Checked By	批准 Approval By	审核 Checked By	批准 Approval By
签章 Signature	郭赛赛				
日期 Date	2023-4-19				

修订履历/Change Log				
版本 Version	修订内容 Change Description	责任人 Person in Charge	核准 Approval By	日期 Date

目录/Catalogue

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产品图纸或实物图片
Drawing or Product Image



深圳合立讯科技有限公司

Shenzhen Helixun Technology Co., LTD

样品尺寸测量报告

Sample Dimensions Test Report

客户名称 Customer Name	由我	客户料号 Customer P/N		合立讯料号 Helixun P/N	HLX008-BS563-L-V5
测试日期 Test Date	2023-4-19	样品数量 Sample Qty.	3	测试人 Inspector	时震浩
尺寸编号 Dimension No.	标准 Standard	样品 1 Sample 1	样品 2 Sample 2	样品 3 Sample 3	Pass/NG
①总长	13.00±0.2MM	13.2±0.2MM	13.00±0.2MM	12.8±0.2MM	PASS
②长度	9.51±0.2MM	9.31±0.2MM	9.7±0.2MM	9.51±0.2MM	PASS
③宽度	5.3±0.2MM	5.3±0.2MM	5.5±0.2MM	5.1±0.2MM	PASS
④厚度	0.2±0.02MM	0.19±0.02MM	0.22±0.02MM	0.2±0.02MM	PASS
⑤					
⑥					
⑦					
最终结论 Conclusion					PASS
测试人&日期 Inspector & Date	时震浩 2023-4-19		批准&日期 Approval & Date		

深圳合立讯科技有限公司

Shenzhen Helixun Technology Co., LTD

射频性能测量报告

RF Performance Test Report

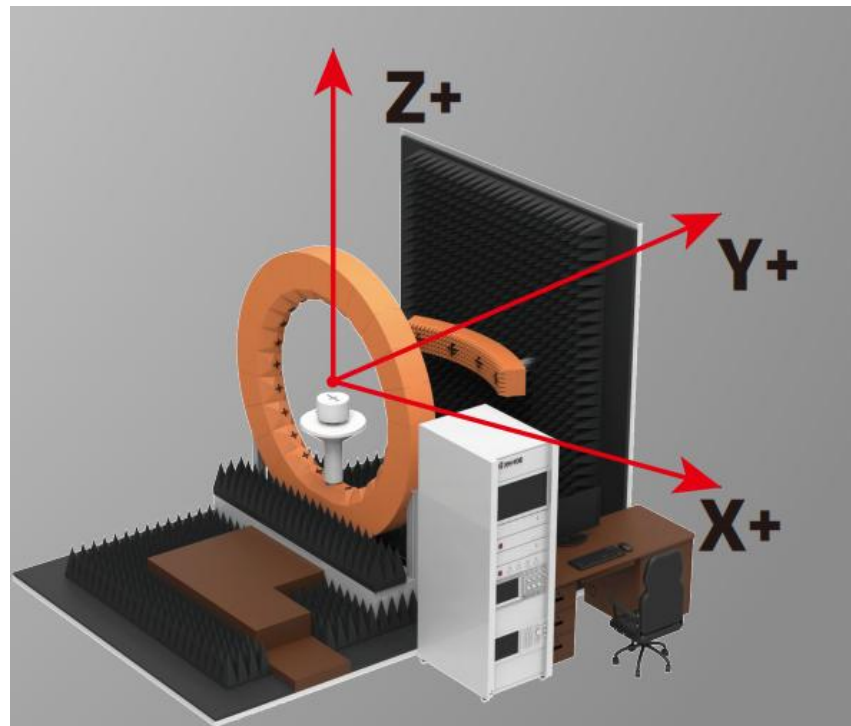
客户名称 Customer Name	由我	项目名称 Project Name	BS563	合立讯料号 Helixun P/N	HLX008-BS563-L-V5
频段 Band	2400-2500MHz	测试日期 Test Date	2023-4-19	测试人 Inspector	时震浩

天线测试设备简介

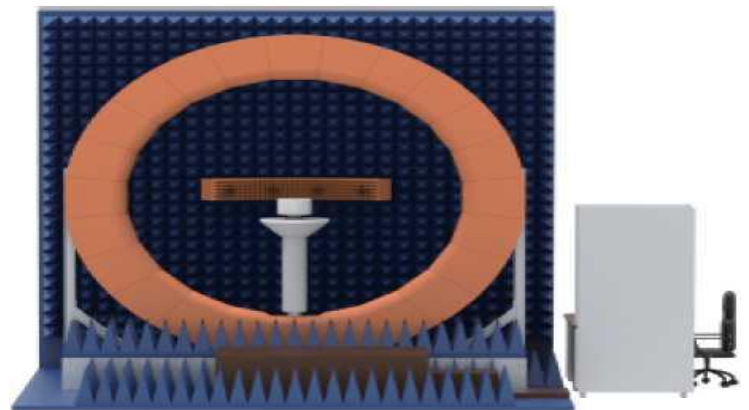
Antenna Test Equipment Introduction

测试天线输入特性使用 **Agilent E5071C and Agilent 5071C** 矢量网络分析仪；辐射特性利用 ETS 三维近场暗室进行测试，并分别使用 CMW500 和 Agilent 5071C 进行了分析。暗房的测试坐标如下：

Test of antenna input characteristics using **Agilent E5071C and Agilent 5071C** vector network analyzer; The radiation pattern of the antenna are tested using the ETS starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:



Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
		SATIMO
Gain & Efficiency	Gain & Efficiency	Agilent 5071C



S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	2.41	1.20	1.38	1.93

S11 Parameter-Log Mag

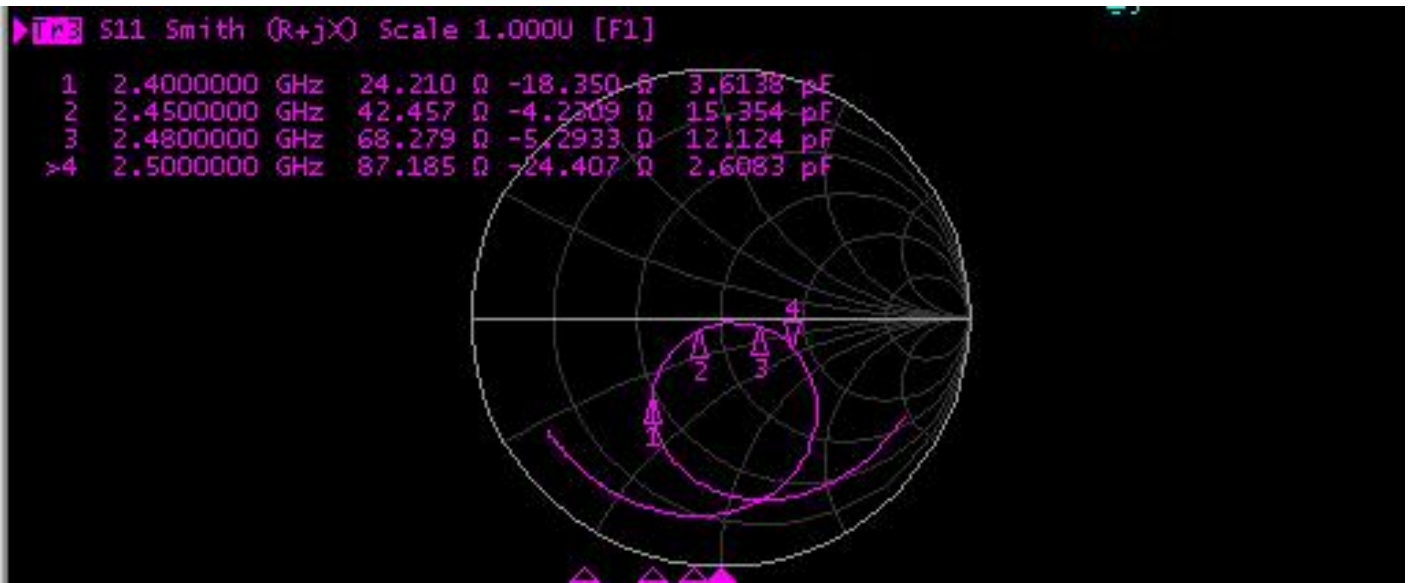


地址：深圳市宝安区西乡街道共乐社区铁仔路九方广场2栋1905 TEL: 0755-23591525 FAX: 0755-23591525

Address: 1905, Building 2, Jiufang Square, Tiezai Road, Gongle Community, Xixiang Street, Bao'an District, Shenzhen

Frequency (MHz)	2400	2450	2480	2500
Log Mag	-7.65	-20.58	-15.87	-9.91

S11 Parameter-Smith

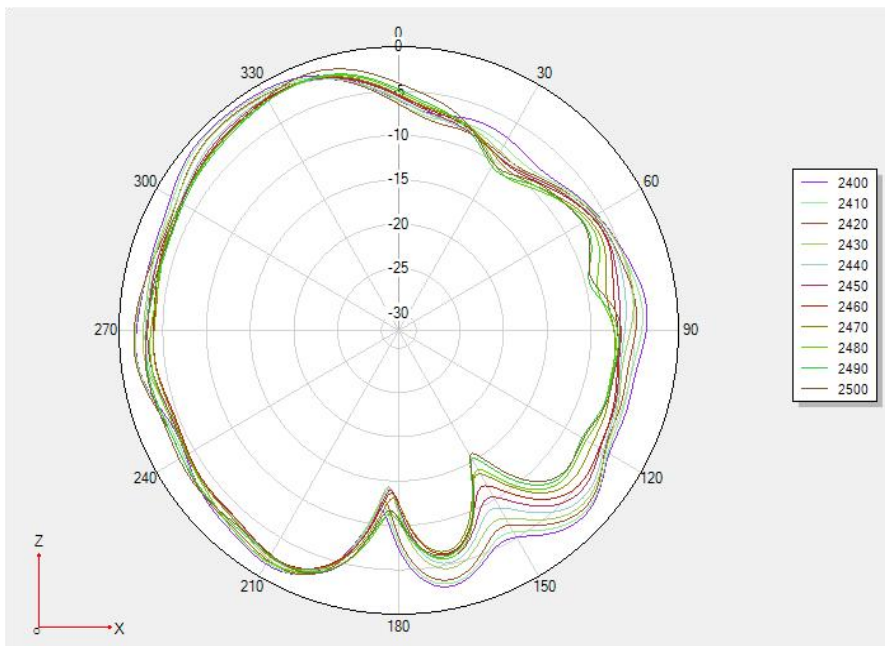


Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	24.21	42.45	68.27	87.18

Gain & Efficiency——ANT

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	30.91	0.55
2410	31.05	0.5
2420	30.62	-0.13
2430	30.34	0.21
2440	30.69	-0.07
2450	30.34	-0.53
2460	31.26	-0.52
2470	31.19	-0.77
2480	31.62	-0.41
2490	31.84	-0.37
2500	30.91	0.55

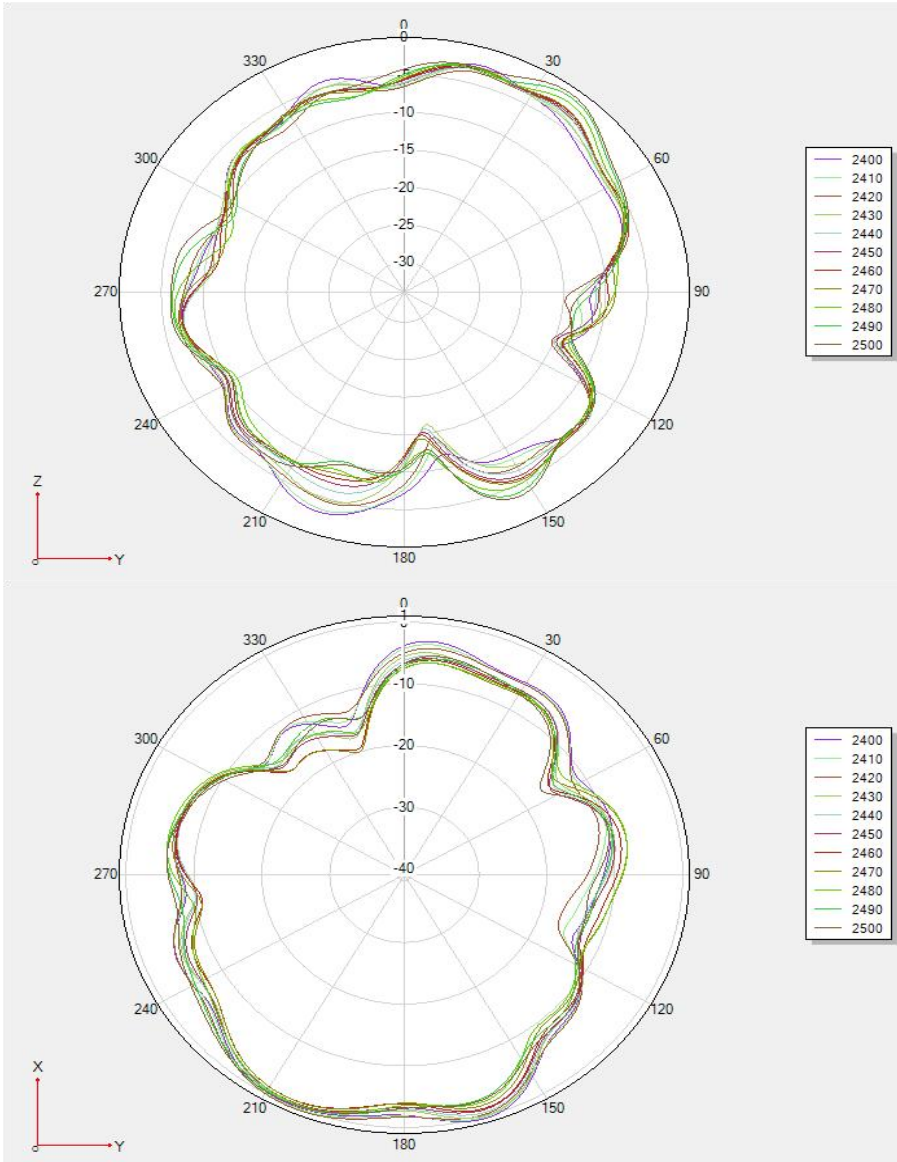
2D Pattern — BT ANT



地址：深圳市宝安区西乡街道共乐社区铁仔路九方广场2栋1905

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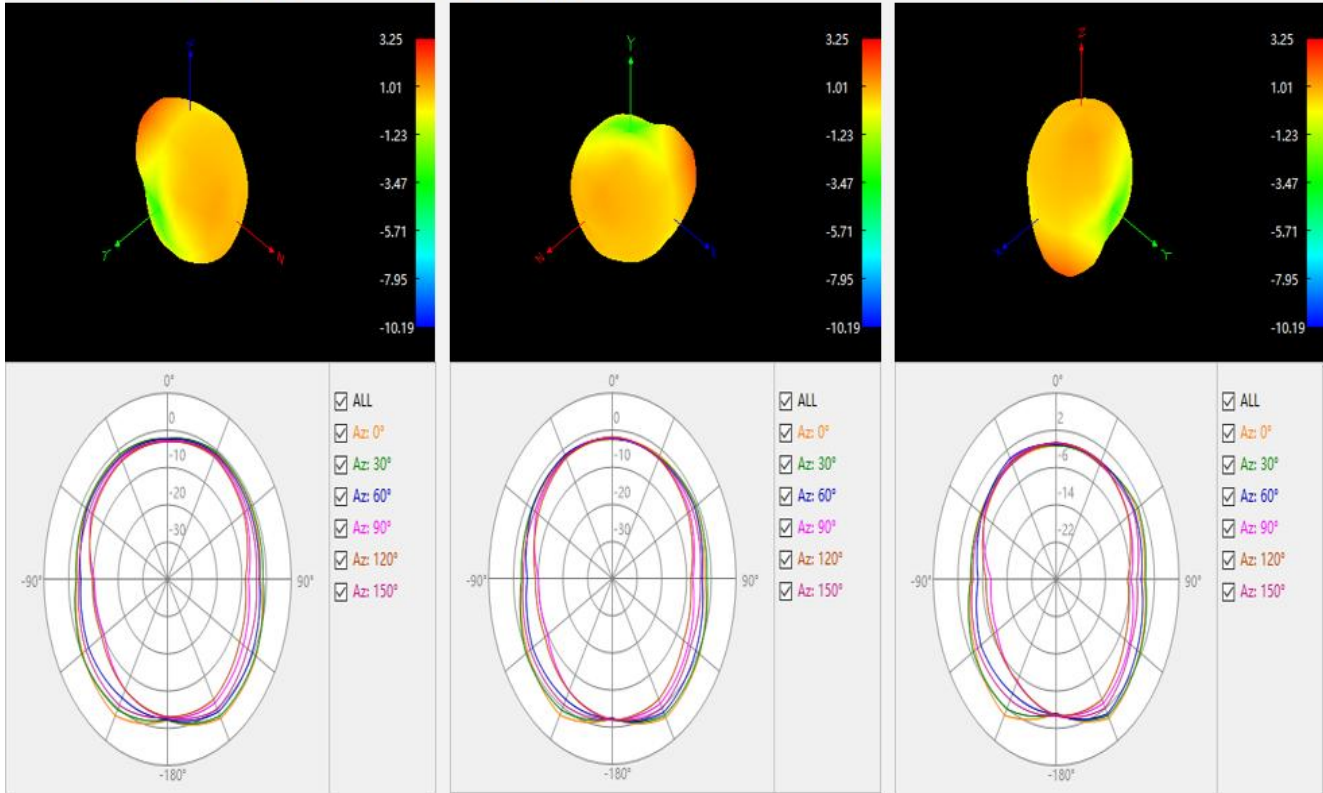
OTA Data 自由场测试

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		Channel	TRP(dBm)	TIS(dBm)
BT	L	0	-1.52	-85.18
		39	-1.66	-85.91
		78	-0.41	-84.79

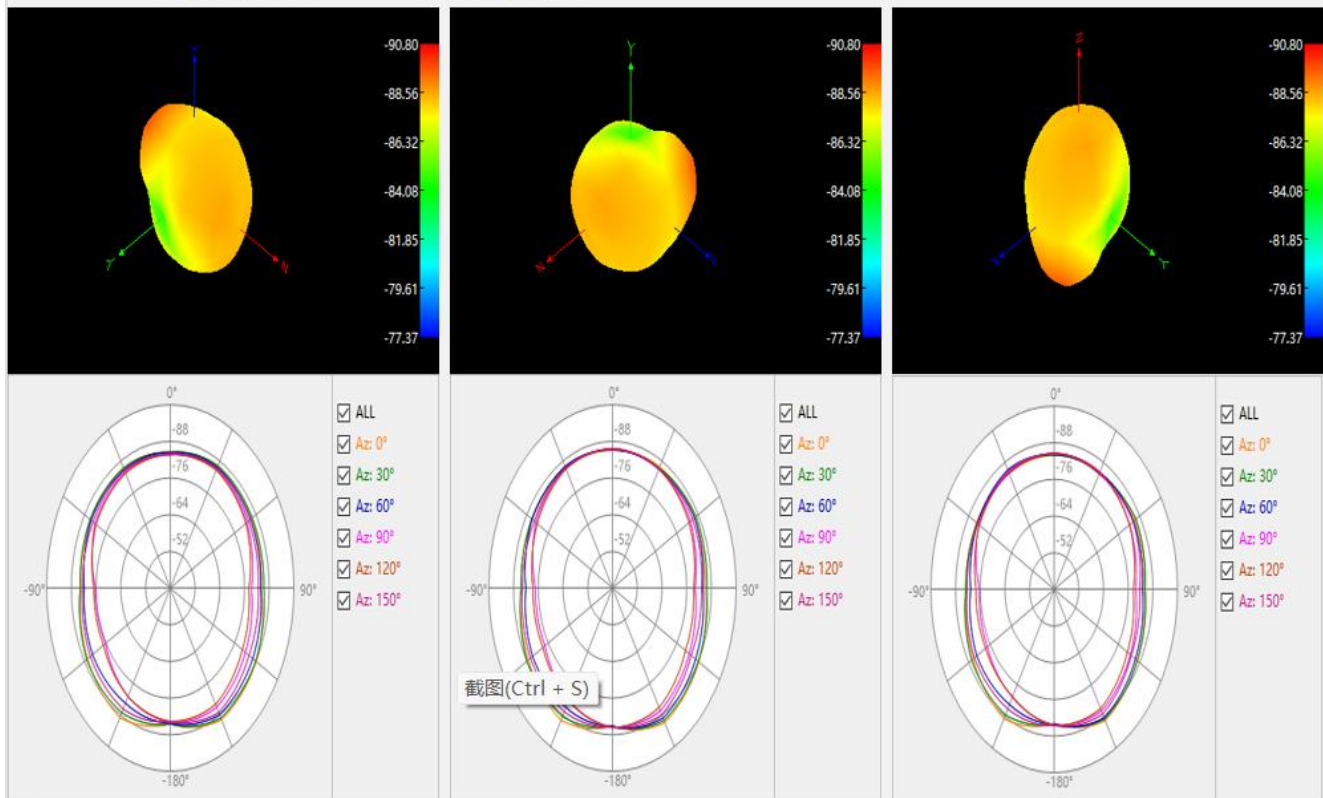
地址：深圳市宝安区西乡街道共乐社区铁仔路九方广场2栋1905 TEL: 0755-23591525 FAX: 0755-23591525

Address: 1905, Building 2, Jiufang Square, Tiezai Road, Gongle Community, Xixiang Street, Bao'an District, Shenzhen

3.Test Result L-TRP



3.Test Result L-TIS

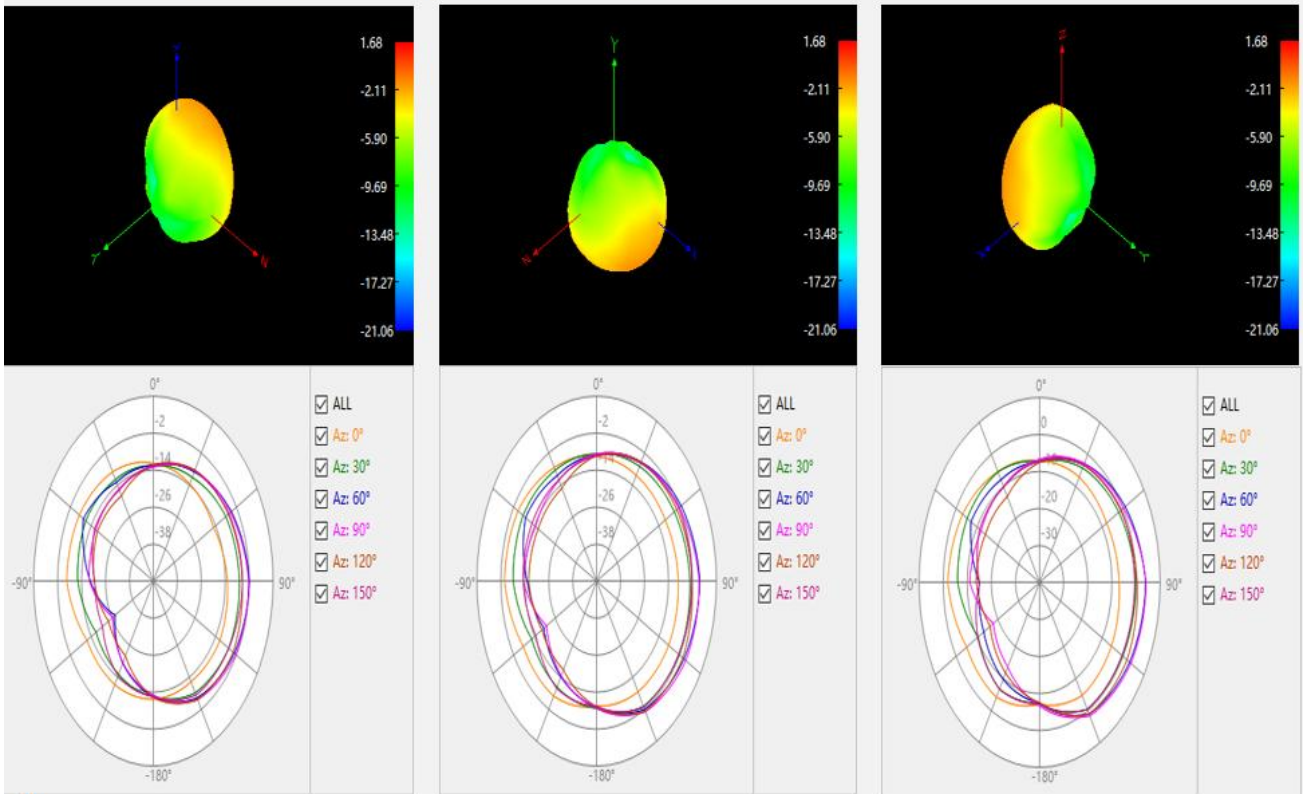


OTA Data

二代头模测试

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		Channel	TRP(dBm)	TIS(dBm)
BT	L	0	-7.48	-77.84
		39	-3.87	-78.58
		78	-1.48	-79.24

3.Test Result L-TRP



3.Test

Result

L-TIS

