



深圳市凯普深通讯科技有限公司  
Shenzhen cape deep communication technology co., LTD

# R11天线测试报告

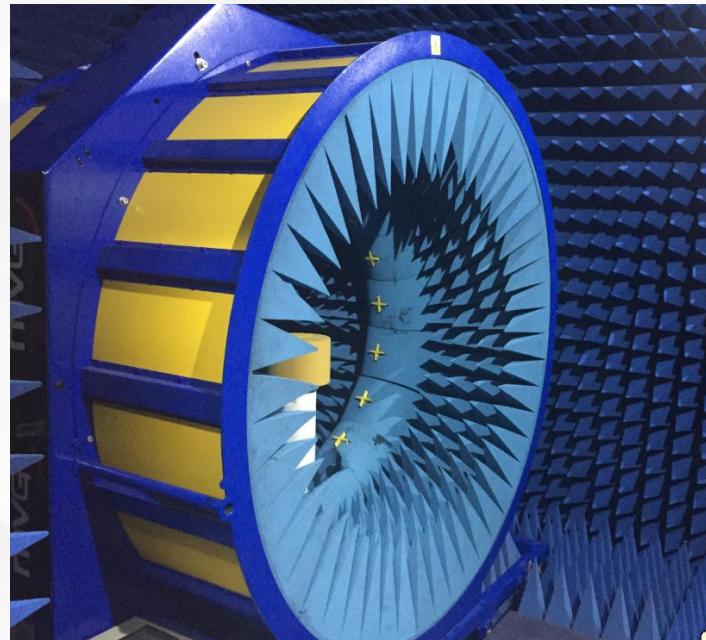
test report

客户：  
项目名：R11  
射频：江工  
日期：2024.9.08  
版本：



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# 实验室测试环境及设备



测试项目	测试设备
S11、S12、VSWR、LOSS	网络分析仪E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16暗室、GP7*4*3暗室、E5071B
TRP、TIS	Satimo SG16暗室、GP7*4*3暗室、8960、 CMW500、MT8820C、E4438C、



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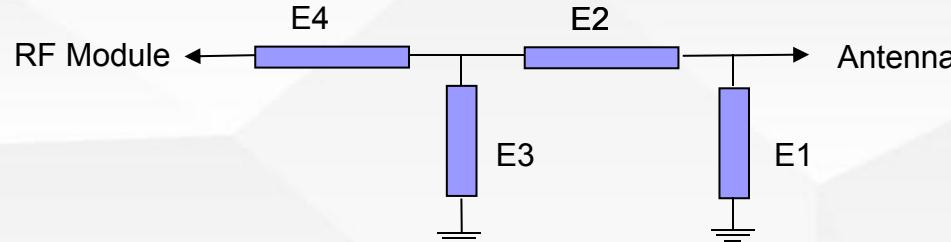
# 项目调试简介

整机类型 Type of complete machine				
		频段信息 Frequency band	天线形式 antenna form	
天线及频段信息 information	天线 antenna	2400-2480M	monopole	
天线材质 material	导线 ( 0.8mm*20mm )			



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# BT天线匹配电路



SMART WATCH	Element	Value	
	E1(0201)	2.4NH	
	E2(0201)	0欧姆	
	E3(0201)	N/C	



# 天线无源效率图 efficiency&gain

自由 Unblock

Gain(dBi) : -2.88dB

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	20.47	-6.89	-3.07
2410	18.49	-7.33	-3.67
2420	19.47	-7.11	-3.64
2430	20.77	-6.83	-3.4
2440	23.15	-6.35	-2.92
2450	23.73	-6.25	-2.99
2460	22.8	-6.42	-3.16
2470	21.08	-6.76	-3.45
2480	21.28	-6.72	-3.39
2490	22.7	-6.44	-3.06
2500	23.94	-6.21	-2.88



# 天线无源效率图 efficiency&gain

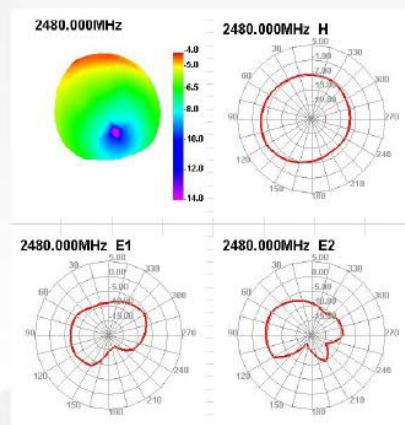
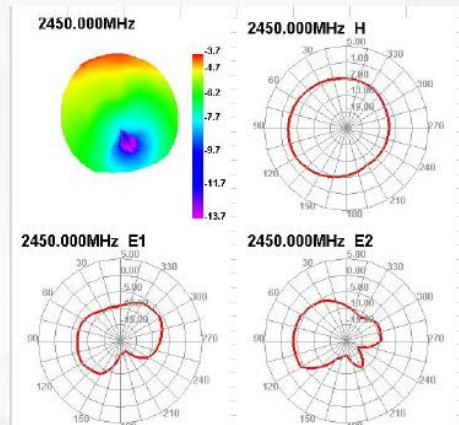
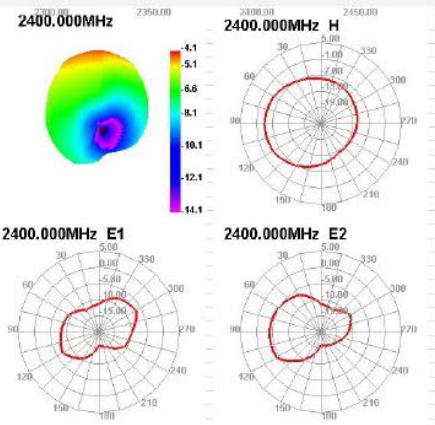
手摸 Hand touch

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	5.25	-12.8	-6.53
2410	4.88	-13.12	-7.01
2420	5.27	-12.78	-6.78
2430	5.73	-12.42	-6.62
2440	6.49	-11.88	-6.21
2450	6.67	-11.76	-6.16
2460	6.51	-11.86	-6.39
2470	6.13	-12.13	-6.67
2480	6.31	-12	-6.67
2490	6.78	-11.69	-6.54
2500	7.15	-11.46	-6.36



# 天线无源测试苹果图

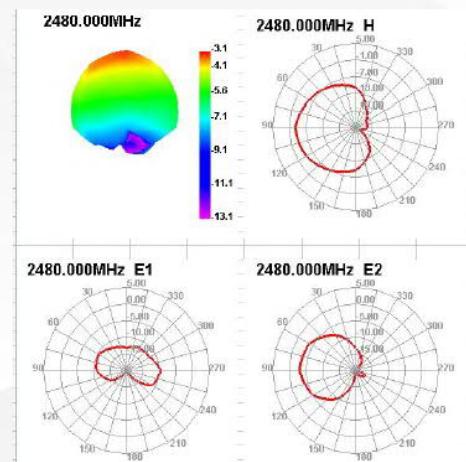
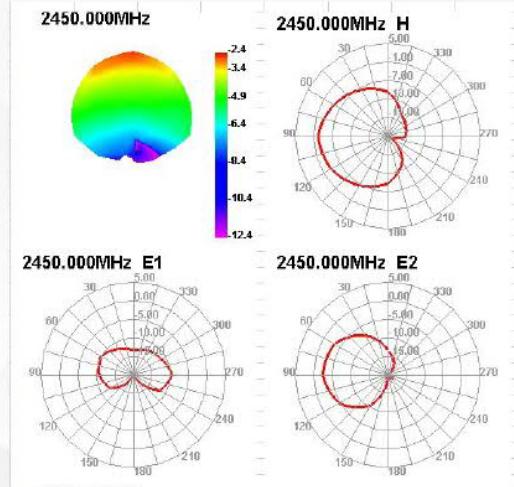
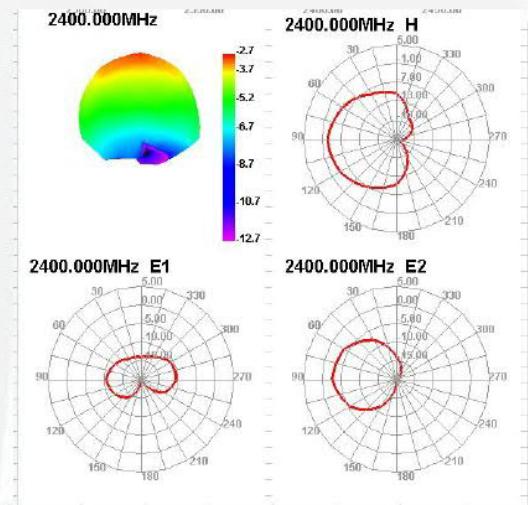
自由





# 天线无源测试苹果图

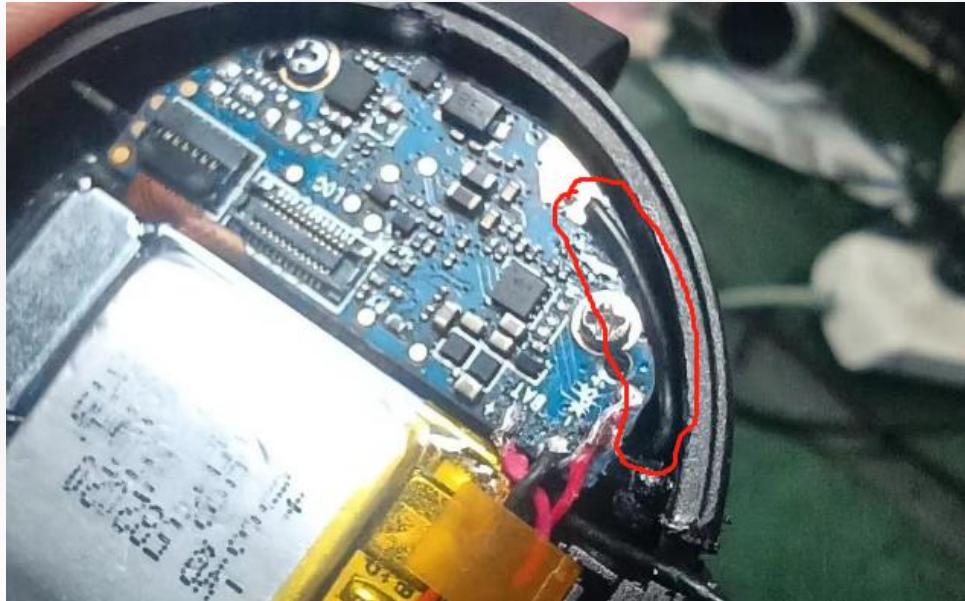
手模





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## 天线摆放Antenna placement



料号: 11.102710270023

规格: R11-BT/蓝牙RF天线 / 黑色电线/外径0.8/线长20mm/含开线长1.0mm

