



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

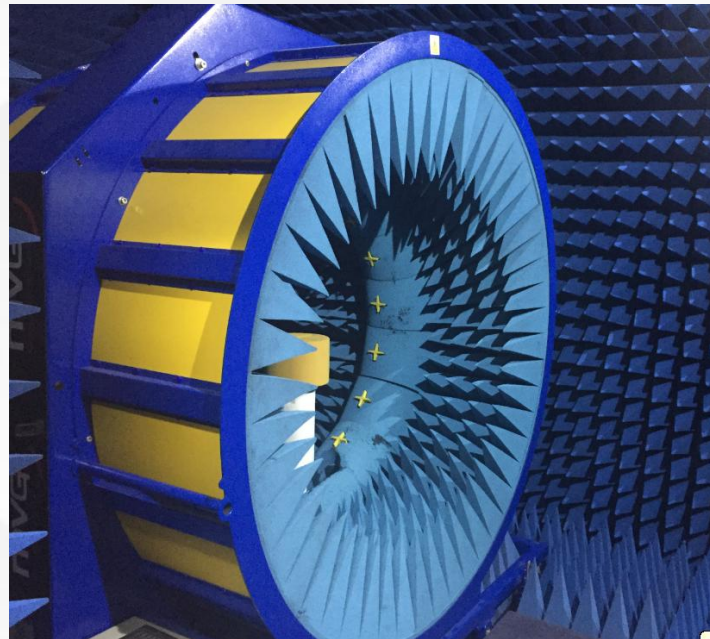
G50天线测试报告

G50 Antenna Test Report



实验室测试环境及设备

Laboratory testing environment and equipment



Test items	Testing equipment
S11、S12、VSWR、LOSS	Network analyzer E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16 & GP7*4*3 Darkroom、 E5071B
TRP、TIS	Satimo SG16 & GP7*4*3 Darkroom、 8960、CMW500、MT8820C、E4438C、



项目调试简介

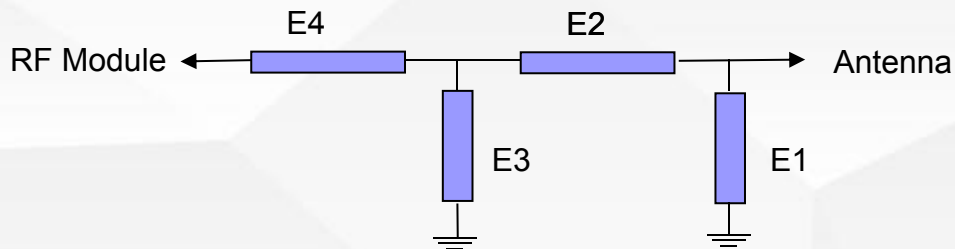
Project commissioning

	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	wire (0.8 mm*20mm)			



BT天线匹配电路

BT antenna matching circuit



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



天线无源效率图 efficiency&gain

free Unblocking

Gain(dBi) : -2.99dB

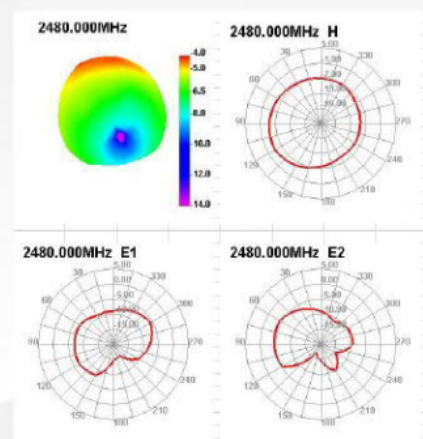
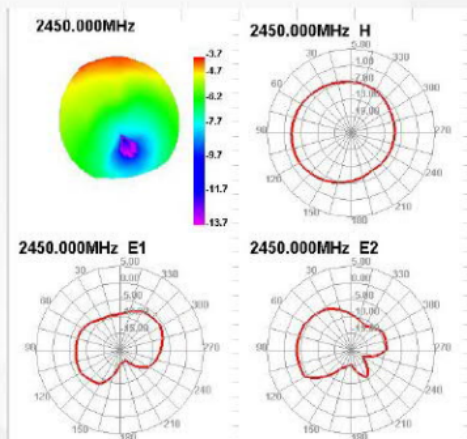
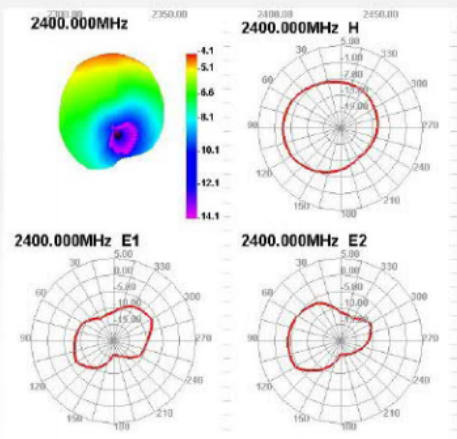
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	20.47	-6.89	-3.07
2410	18.49	-7.33	-3.67
2420	19.47	-7.11	-3.64
2430	20.77	-6.83	-3.4
2440	23.15	-6.35	-2.92
2450	23.73	-6.25	-2.99
2460	22.8	-6.42	-3.16
2470	21.08	-6.76	-3.45
2480	21.28	-6.72	-3.39
2490	22.7	-6.44	-3.06
2500	23.94	-6.21	-2.88



天线无源测试苹果图

Antenna passive testing 3D diagram

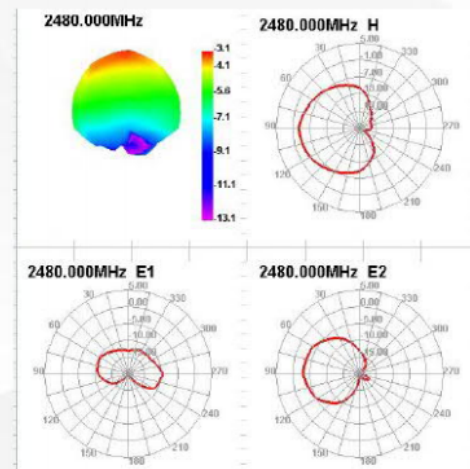
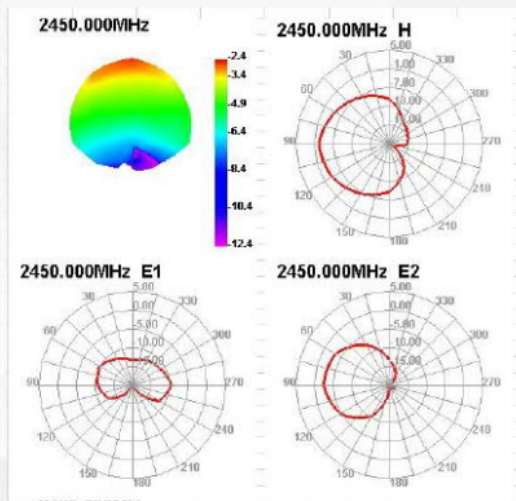
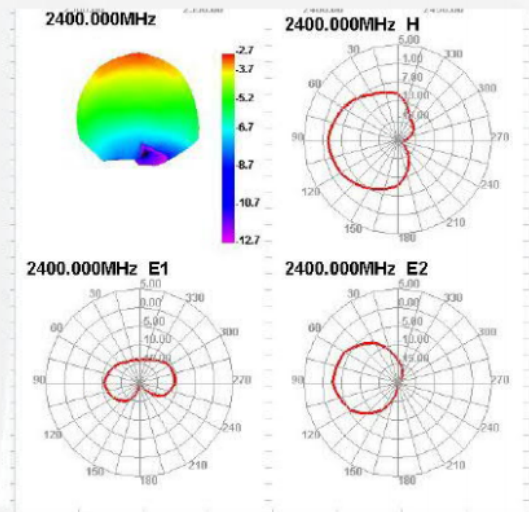
Free



天线无源测试苹果图

Antenna passive testing 3D diagram

Manual mode





天线无源效率图 efficiency&gain

手模 Manual mode

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



天线尺寸 Antenna size

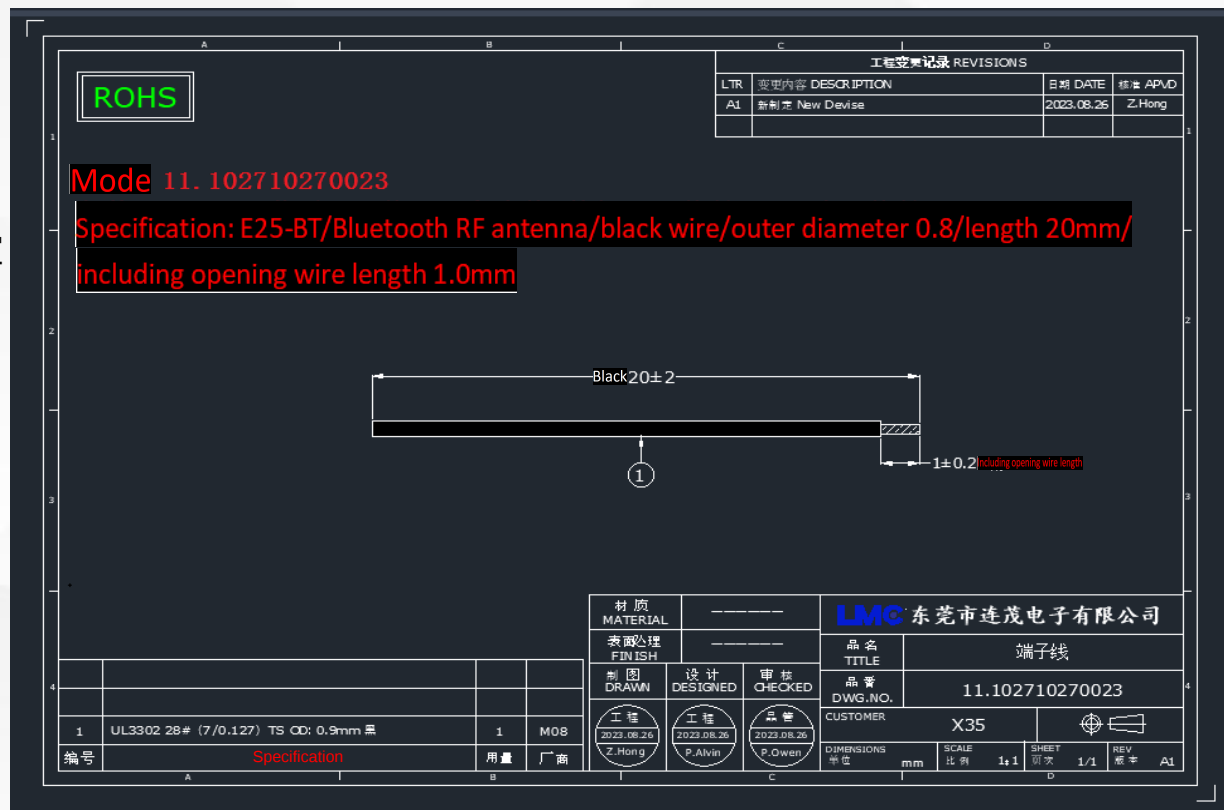
Antenna model 11.102710270023

Antenna manufacturer information :

东莞市连茂电子有限公司

DongGuang LMC Electronics Co., Ltd.

广东省东莞市虎门镇北栅中兴路27号201室
Room 201, No.27 Zhongxing Road, Beizha,
Humen Town, Dongguan City, Guangdong



天线摆放Antenna placement

