



深圳市安威无线科技有限公司

行业领先的一站式通信射频天线解决方案制造商

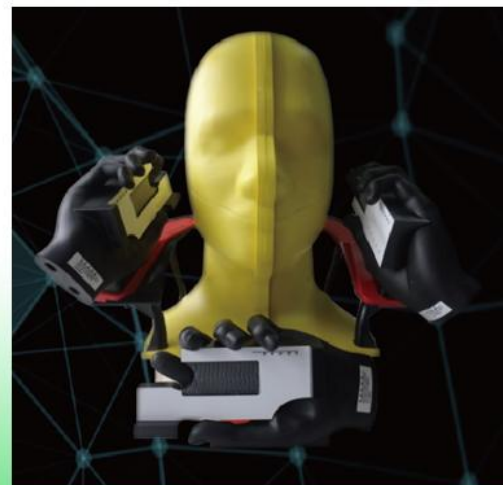
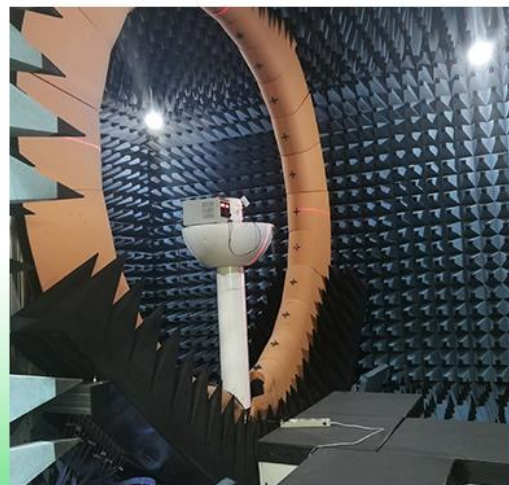
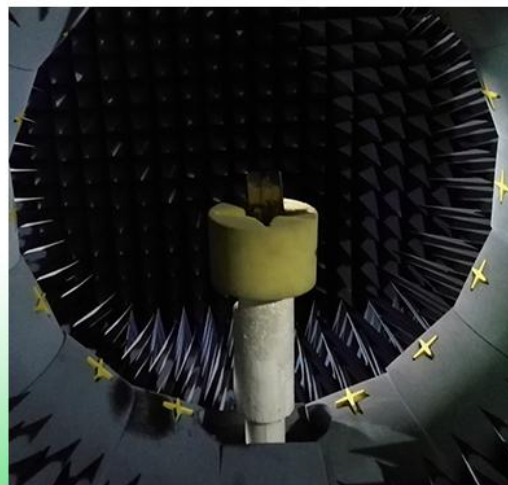
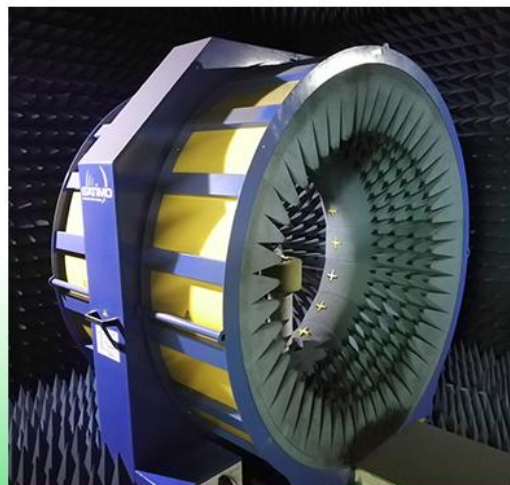
H6501 规格书

项目	射频负责人	结构负责人	频段
H6501	唐迪	覃云林	GSM:850/1800/1900 WCDMA850/1700/1900 LTE:B2/4/5/12/13/25/26/ 41/66/71 WIFI/GPS/BT
备注：			

Time: 2023.11.21

携手共进 共创未来

项目开发环境



安威无线一直都是您值得信赖且优秀的合作伙伴，我们为您提供全方位一站式的的产品以及技术服务！

“质量第一，服务至上”是安威一直以来的发展宗旨

携手共进 共创未来

2G测试数据

	EGSM850			Remarks	DCS1800			Remarks
Channel	128	190	250		512	698	885	
MaxPower (dBm)	29.8	29.5	29.2		30.1	30.5	30.8	
TRP(dBm)	25.75	26.3	25.8		25.8	24.63	25.36	
MaxSensitivity(dBm)			-104.53				-107.38	
TIS(dBm)			-101.41				-102.46	
				Remarks	PCS1900			Remarks
					512	661	810	
					31.1	31.2	31.0	
					25.42	26.3	26.1	
							-107.47	
							-102.35	

3G测试数据

	WCDMA850			Remarks		WCDMA1700			Remarks
Channel	4357	4408	4458		Channel	1537	1638	1738	
MaxPower (dBm)	19.3	19.5	19.49		MaxPower (dBm)	23.1	23.5	24.36	
TRP(dBm)	15.72	15.73	15.58		TRP(dBm)	17.8	17.3	18.5	
MaxSensitivity(dBm)			-105.5		MaxSensitivity(dBm)			-108.8	
TIS(dBm)			-101.33		TIS(dBm)			-102.46	
	WCDMA1900			Remarks					
Channel	9663	9800	9937						
MaxPower (dBm)	23.3	23.42	23.39						
TRP(dBm)	18.32	18.41	18.8						
MaxSensitivity(dBm)			-107.1						
TIS(dBm)			-102.42						

4G测试数据

	LTE-B2			Remarks	LTE-B4			Remarks
Channel	19250	19575	19900		20000	20150	20350	
MaxPower (dBm)	23.1	23.2	23.49		22.19	21.35	21.46	
TRP(dBm)	18.24	18.33	18.28		17.28	17.3	17.5	
MaxSensitivity(dBm)			-97.8				-94.5	
TIS(dBm)			-92.6				-90.8	
	LTE-B5			Remarks	LTE-B12			Remarks
Channel	20450	20525	20600		23060	23095	23130	
MaxPower (dBm)	19.3	20.5	20.9		20.42	20.43	20.65	
TRP(dBm)	16.2	17.3	17.8		17.43	17.45	17.66	
MaxSensitivity(dBm)			-93.5				-94.5	
TIS(dBm)			-89.33				-91.6	

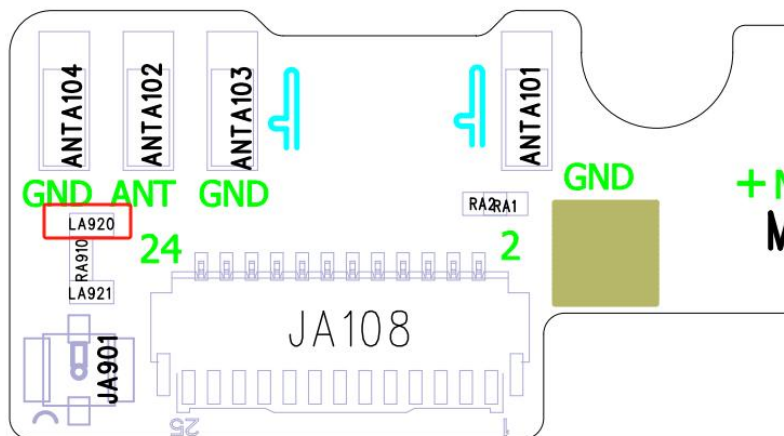
4G测试数据

	LTE-B13			Remarks				Remarks
Channel	23195	23230	23265					
MaxPower (dBm)		21.40						
TRP(dBm)		17.29						
MaxSensitivity(dBm)		-94.31						
TIS(dBm)		-91.2						
	LTE-B25			Remarks	LTE-B26			Remarks
Channel	26090	26350	26640		26740	26865	26990	
MaxPower (dBm)	21.9	22.2	22.1		18.3	19.49	20.48	
TRP(dBm)	18.8	18.3	18.2		15.52	15.8	16.6	
MaxSensitivity(dBm)			-96.39				-90.6	
TIS(dBm)			-91.8				-86.5	

4G测试数据

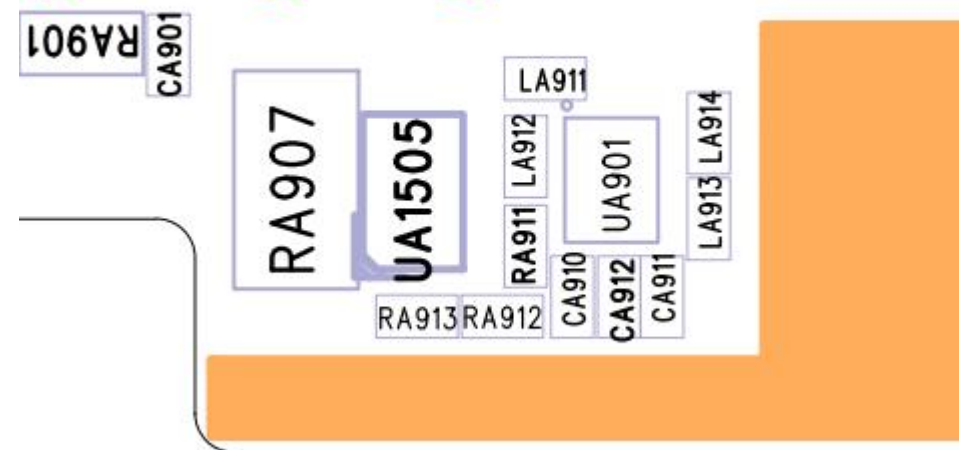
	LTE-B41 (10MHz)			Remarks	LTE-B66			Remarks
Channel	40240	40620	41220		132022	132333	132622	
MaxPower (dBm)	20.5	20.7	21.5		21.28	21.45	21.36	
TRP(dBm)	15.6	15.8	16.6		16.6	16.3	16.5	
MaxSensitivity(dBm)			-92.5				-95.41	
TIS(dBm)			-87.16				-90.2	
	LTE-B71			Remarks				Remarks
Channel	133122	133297	133472					
MaxPower (dBm)	19.9	19.6	19.61					
TRP(dBm)	16.61	16.42	16.36					
MaxSensitivity(dBm)			-94.5					
TIS(dBm)			-91.6					

天线匹配



LA920:0.75PF
RA910:4.7NH

3_39ANT_D3EF_V1.0



LA911:0Ω FDD B2 B4 B5 B25 B26 B66
WCDMA B1 B2 B4 B5 GSM 850 1800 1900 TDD
B41

LA912:6.8NH B13

LA914:18NH B12 B17

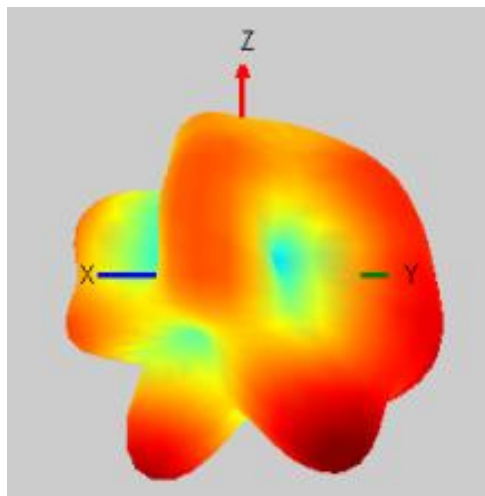
LA913:27NH B71

天线增益与效率

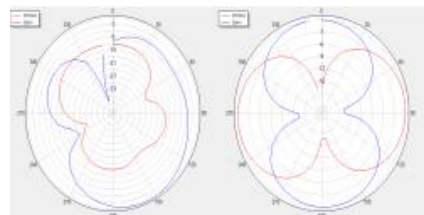
	FRE (MHz)	效率 (%)	增益 (dbi)
FDD B2/25	1850-1990	35%	0.45
FDD B4/66	1710-2200	22%	0.18
FDD B5/26	816-896	23%	-3.2
FDD B12/13	698-798	18%	-3.6
FDD B71	616-698	18%	-3.6
TDD B41	2500-2690	22%	2.1
BT/WIFI	200-5250	33%	1.8
GPS	1575	35%	0.7

	FRE (MHz)	效率 (%)	增益 (dbi)
WCDMA B2	1850-1990	35%	0.45
WCDMA B4	1710-2160	22%	0.18
WCDMA B5	824-896	23%	-3.2
GSM 850	824-896	23%	-3.2
DCS 1800	1710-1880	22%	0.18
PCS 1900	1880-1990	35%	0.45

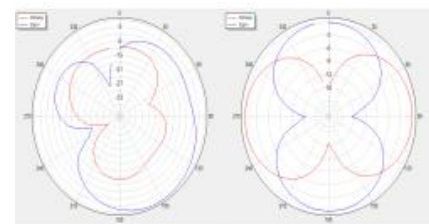
方向图



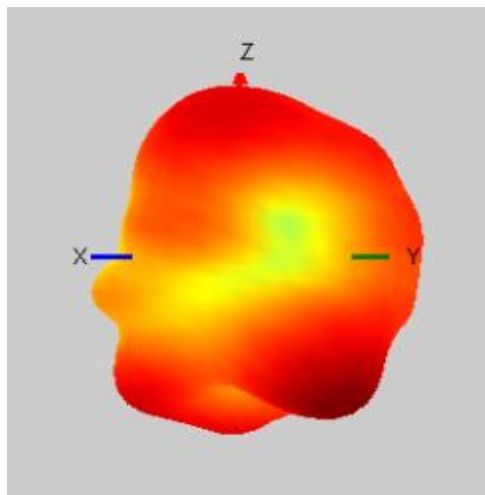
H Theta=90 Freq=820Mhz H Theta=0 Freq=820Mhz



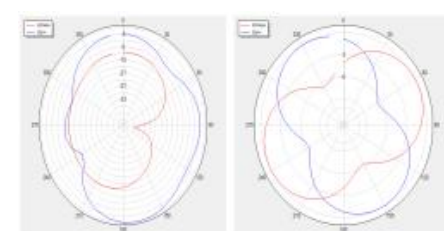
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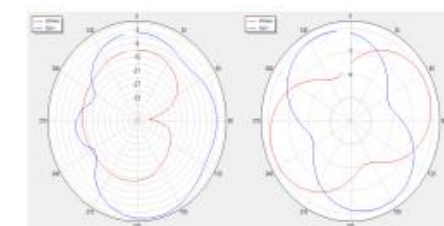
GSM850 、 WCDMA B5 、 FDD B5/26



H Theta=90 Freq=780Mhz H Theta=0 Freq=780Mhz

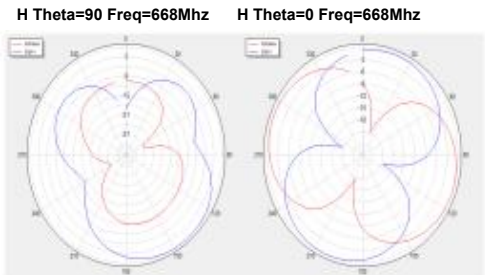
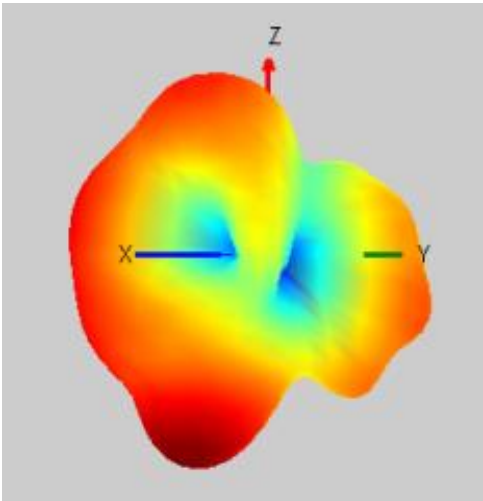


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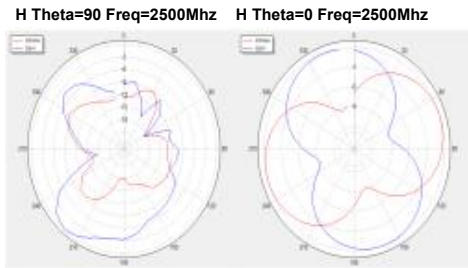
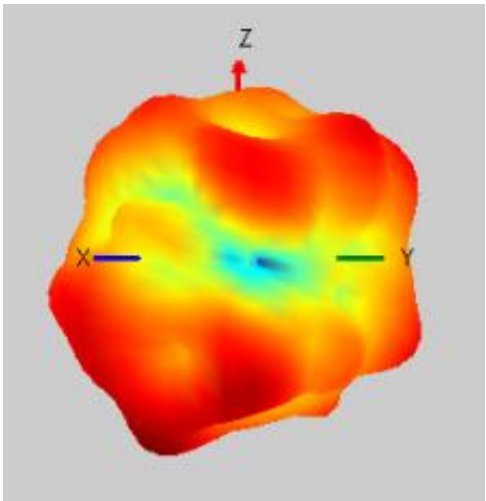
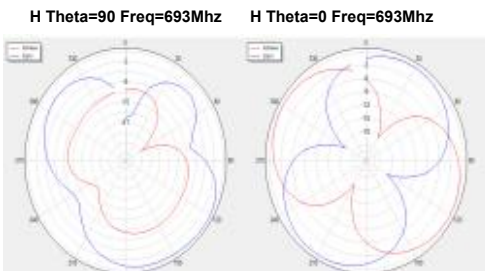


LTE B13/12

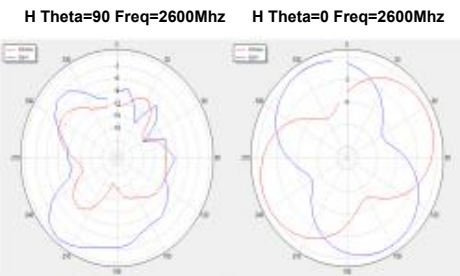
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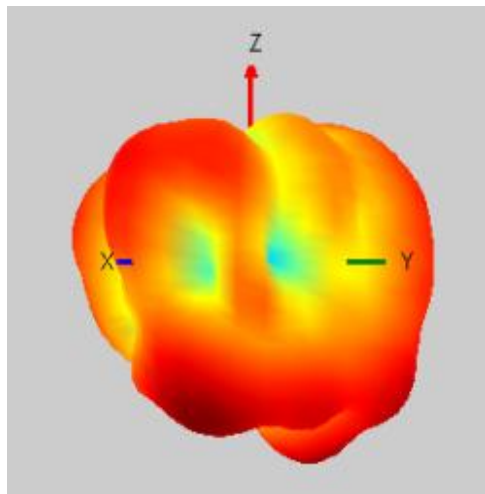
FDD B71



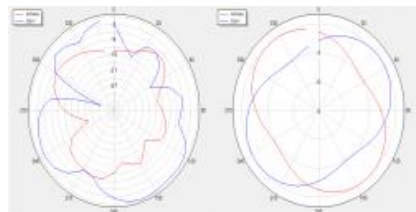
TDD B41



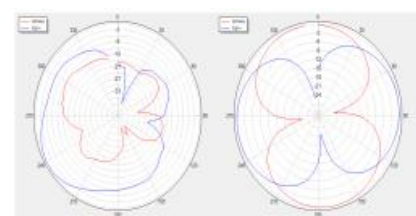
方向图



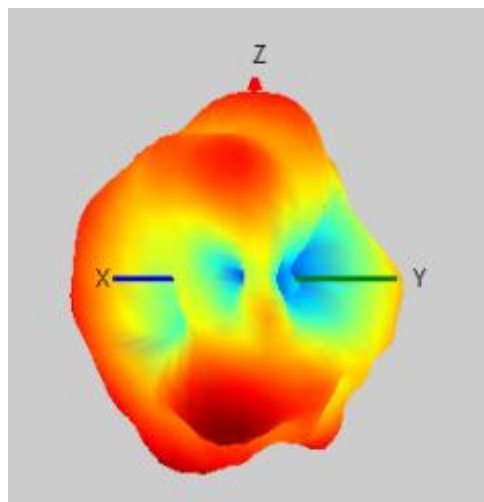
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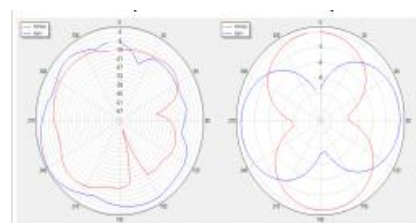
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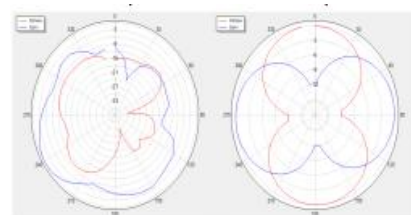
GSM1800 、 WCDMA B4 、 FDD B4/66



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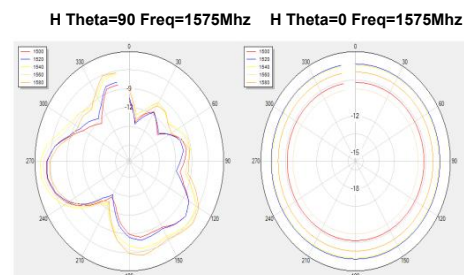
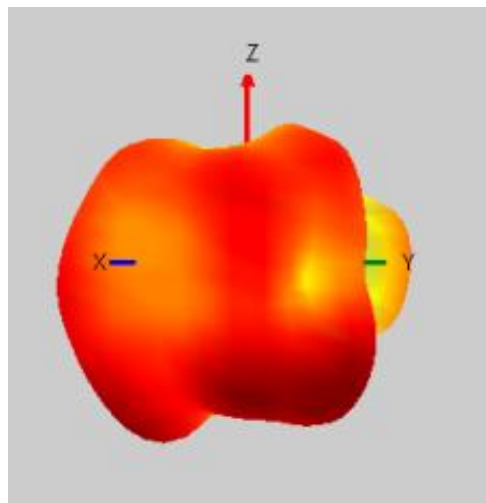


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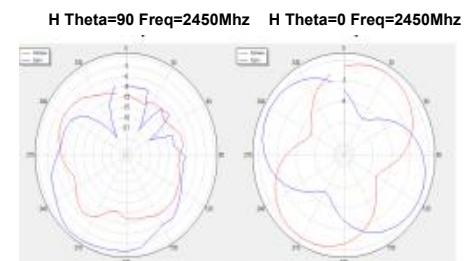
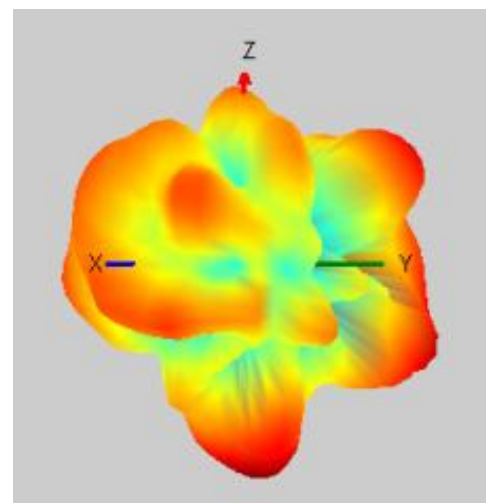


GSM1900 、 WCDMA B2 、 FDD B2/25

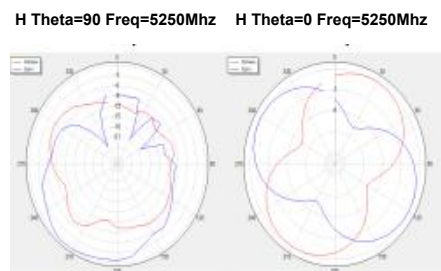
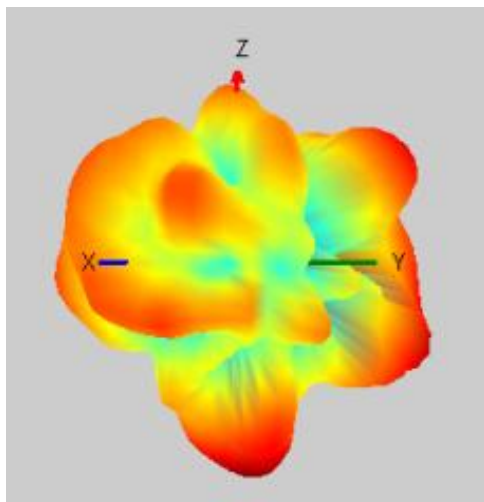
方向图



GPS



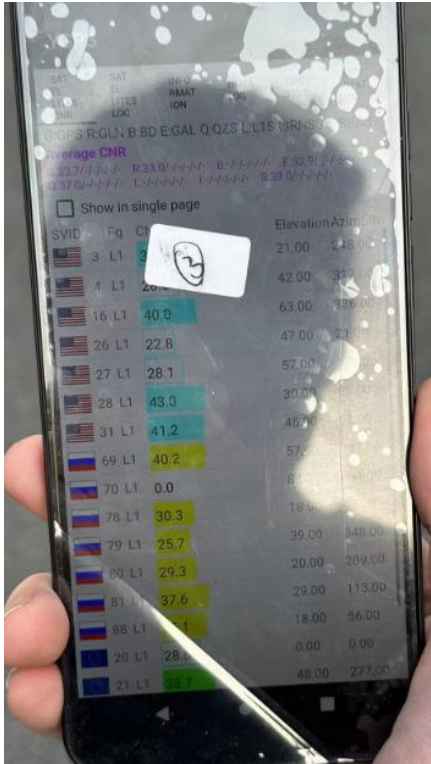
BT/2.4GWIFI



5GWIFI

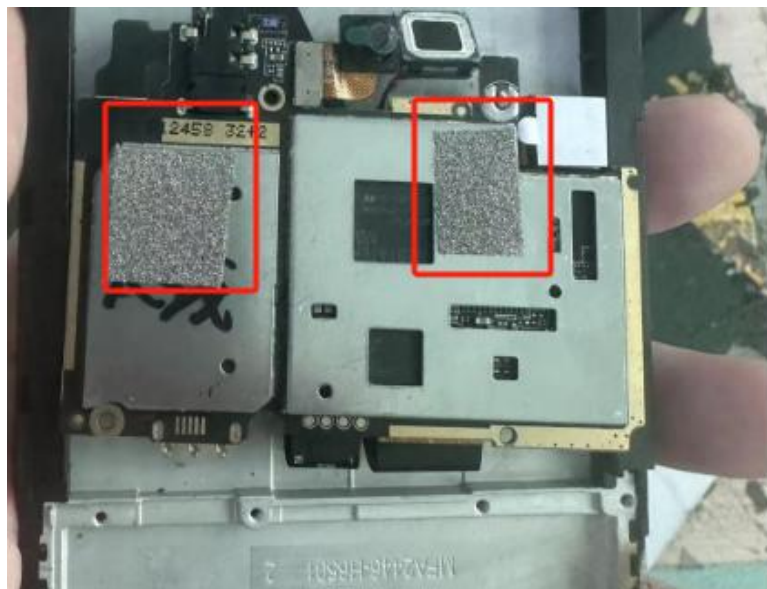
GPS/WIFI测试数据

GPS	最大信号强度	搜星数量	冷启动定位时间	天气状况
	42	>10	90S	晴
WIFI	距路由器WIFI信号满格距离		无障碍正常上网距离	
	7m		13m	
BT	无障碍通话距离		无障碍播放音频距离	
	6m		10m	



2.4GWIFI	L	11.36	-80.69
	M	11.5	-80.65
	H	11.6	-81.4

环境处理

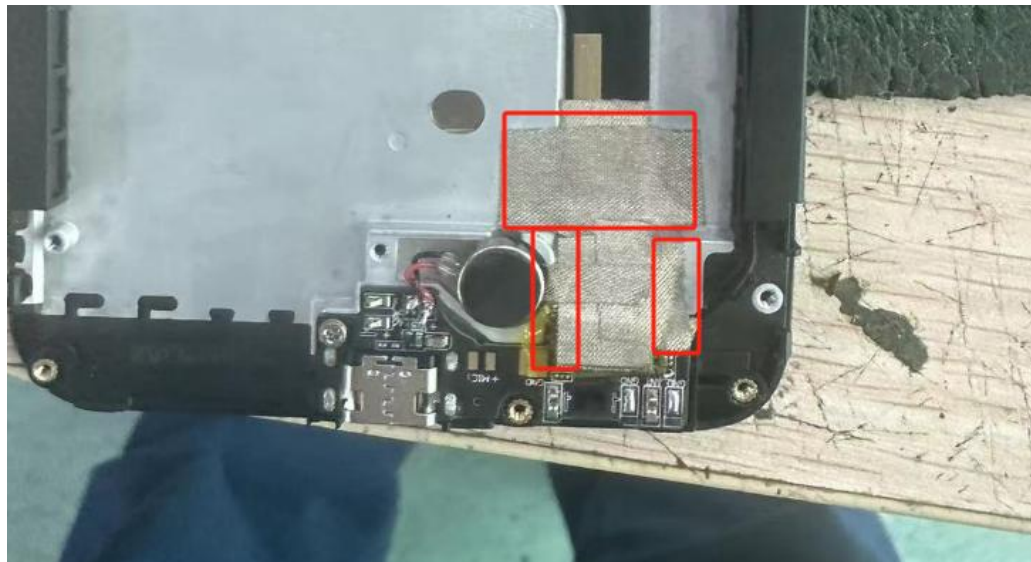


主板接地



小版接地

环境处理

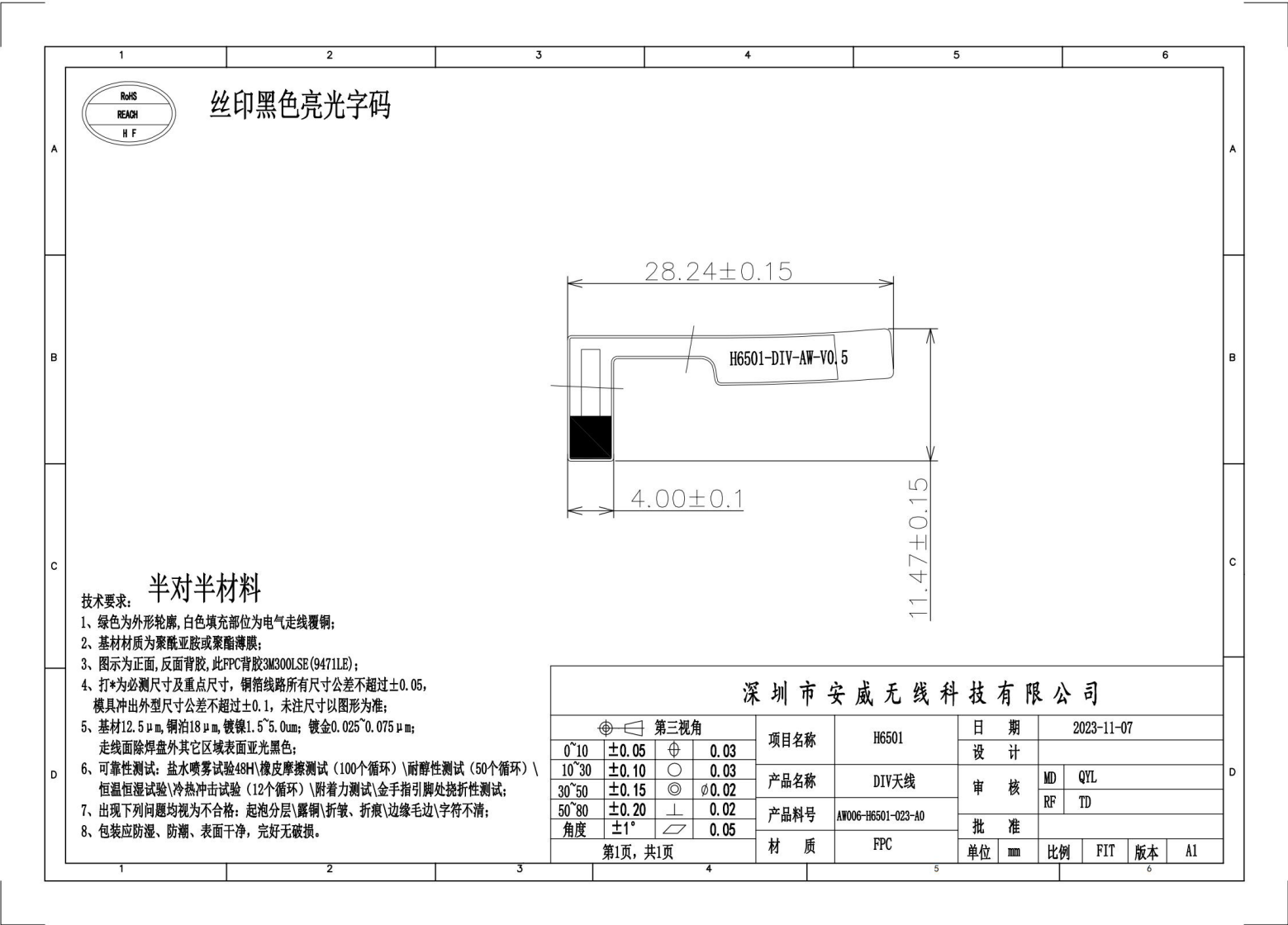


排线要用导电布盖住，并在红框
出接地

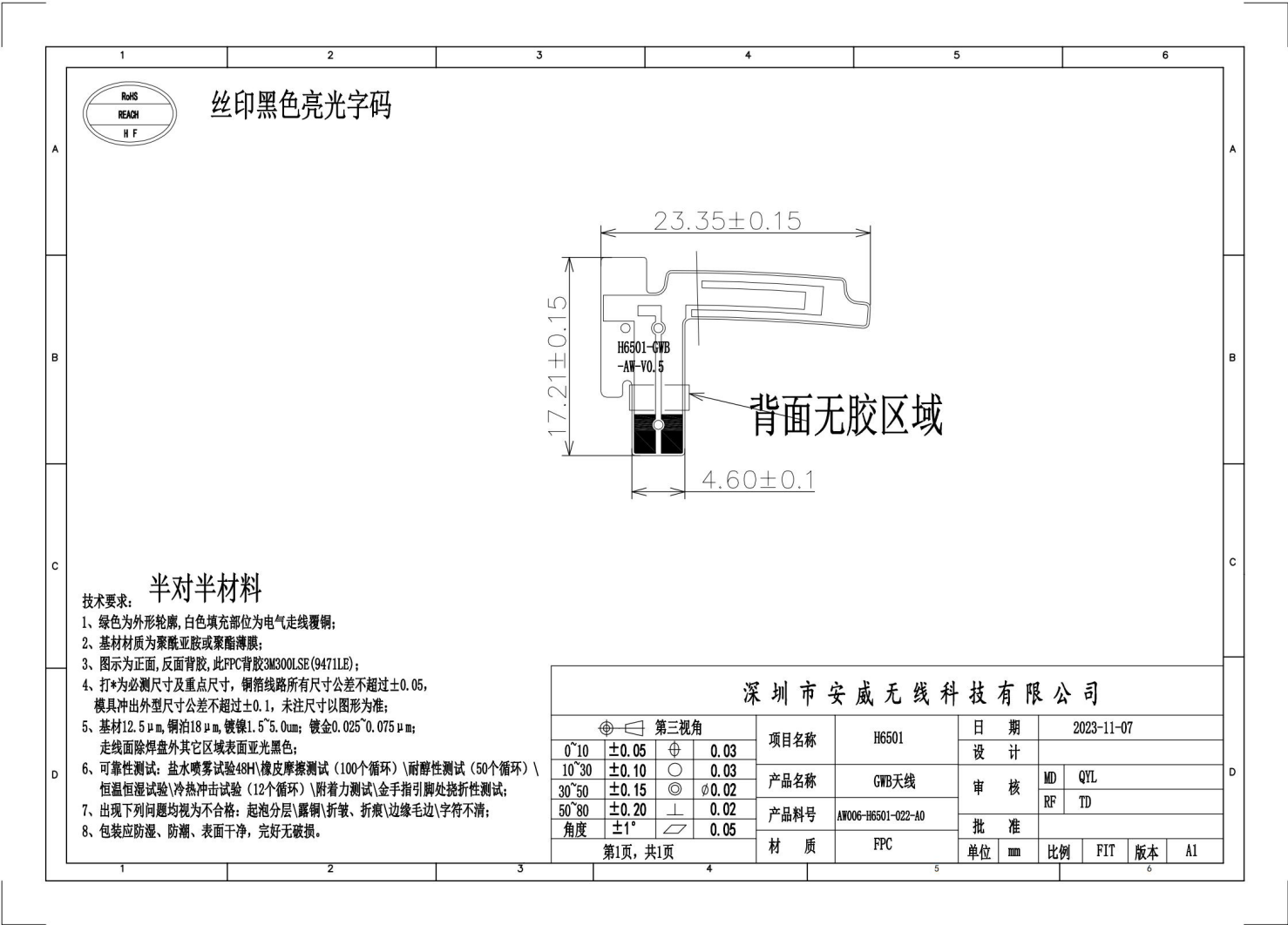
主天线：天线类型PIFA



分集天线：天线类型PIFA



三合一：天线类型PIFA





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行业领先的一站式通信射频天线解决方案制造商

The End

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携手共进 共创未来