

# 深圳市安威无线科技有限公司

ANWEI communication Equipment Co.,Ltd

## 规格书

APPROVAL SHEET

客户 Customer	Youmi	规格型号 Specs	G5
安威料号 Part Number		频 段 Frequency Band	2G:2/3/5/8 3G:1/2/4/5/8 4G:B1/2/3/4/5/7/8/12/17/20/28/34/38/39/40/ 41
颜 色 Color	Black	版 本 Edition	REV:A
销 售 Salesperson	Mr.Xie	设 计 Design	Lei Yao Bo
结 构 Structure	QIN YUN LIN	确 认 Confirm	
日 期 Date	2023/6/27	签字日期 Signing Date	

客户确认 Customer confirmation:

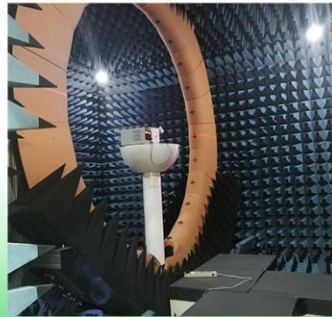
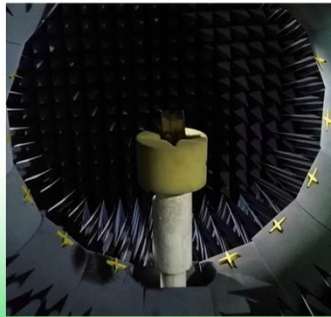
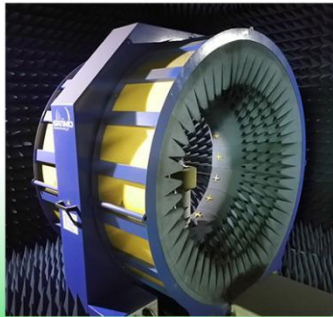
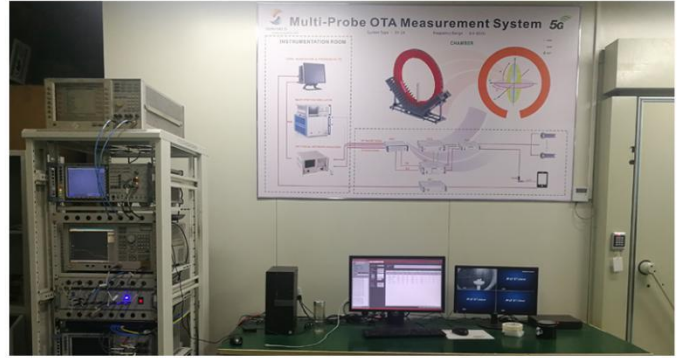
ANT Manufacturers: ANWEI communication Equipment Co.,Ltd  
Address:2nd Floor, East Block, Building 5, Yifenghua Innovation Industrial Park,  
Huaning Road, Dalang Street, Longhua District, Shenzhen City, Guangdong Province

携手共进 共创未来

Join hands to create the future

● 项目开发环境

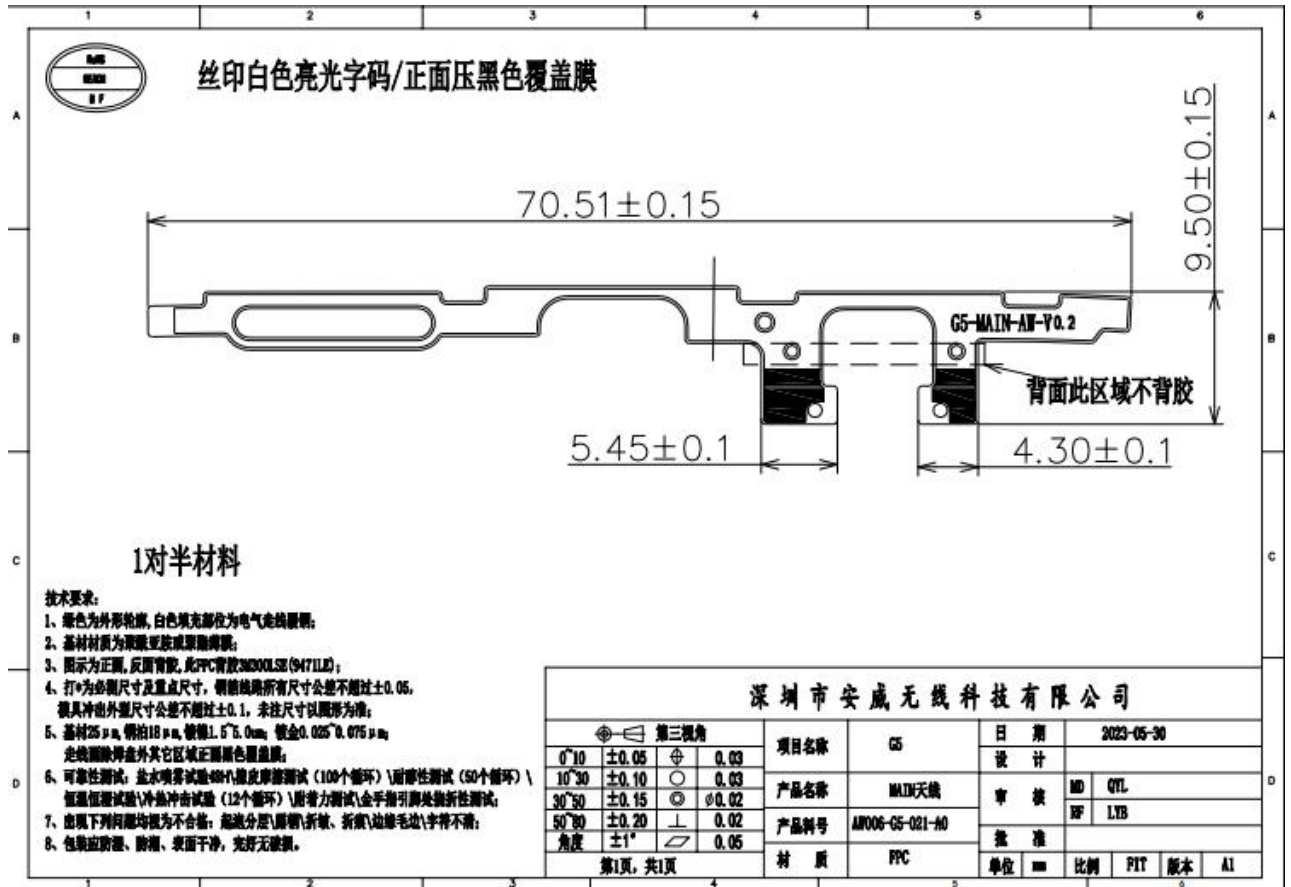
Project development environment



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

### 主集天线 ( MAIN antenna )



工作频段(Working frequency band): 700MHZ~2690MHZ GSM850/900 /1800/1900

WCDMA1/2/4/5/6/8

FDD1/2/3/4/5/7/8/12/17/20/28A/B TDD34/38/39/40/41

天线匹配(Matcheing network):

The customer brought their own matching,  
which was not changed

### 分集天线(DIV antenna)

工作频段(Working frequency band): 1700MHZ~2700MHZ

123456

ABCD

**1对半材料**

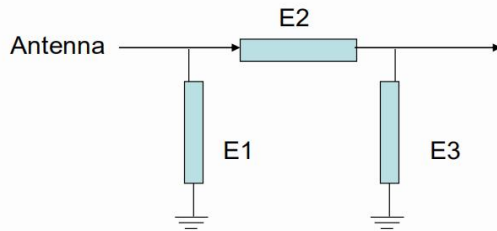
**技术要求:**

- 绿色为外形轮廓, 白色填充部位为电气走线覆膜;
- 基材材质为聚酰亚胺或聚四氟乙烯;
- 图示为正面, 反面背胶, 此FPC背胶3M300LSE(9471LE);
- 打\*为必须尺寸及重点尺寸, 铜箔线路所有尺寸公差不得超过±0.05, 模具冲由外形尺寸公差不得超过±0.1, 未注尺寸以图形为准;
- 基材25μm, 铜箔18μm, 铜厚1.5~1.0um; 镀金0.025~0.075μm; 走线面除焊盘外其它区域正反面黑色覆膜;
- 可靠性测试: 盐雾喷雾试验(48h)\湿度摩擦测试(100个循环)\耐磨性测试(50个循环)\恒温恒湿试验\冷热冲击试验(12个循环)\附着力测试\金手指引脚弯曲折性测试;
- 出现下列问题均视为不合格: 起翘分层\磨伤\折痕、折痕\边缘毛边\字符不清;
- 包装应防潮、防霉、表面干净, 完好无破损。

**深圳市安威无线科技有限公司**

第三视角		项目名称	G5	日期	2023-05-30	
0°/10	±0.05	⊕	0.03	设计		
10°/30	±0.10	○	0.03	产品名称	DIV天线	
30°/50	±0.15	◎	0.02	审核	MD	QTL
50°/90	±0.20	⊥	0.02	产品料号	AW006-G5-023-A0	
角度	±1°	∠	0.05	批准		
第1页, 共1页		材质	FPC	单位	mm	比例 FIT 版本 A1

### 分集天线匹配(Matcheing network)



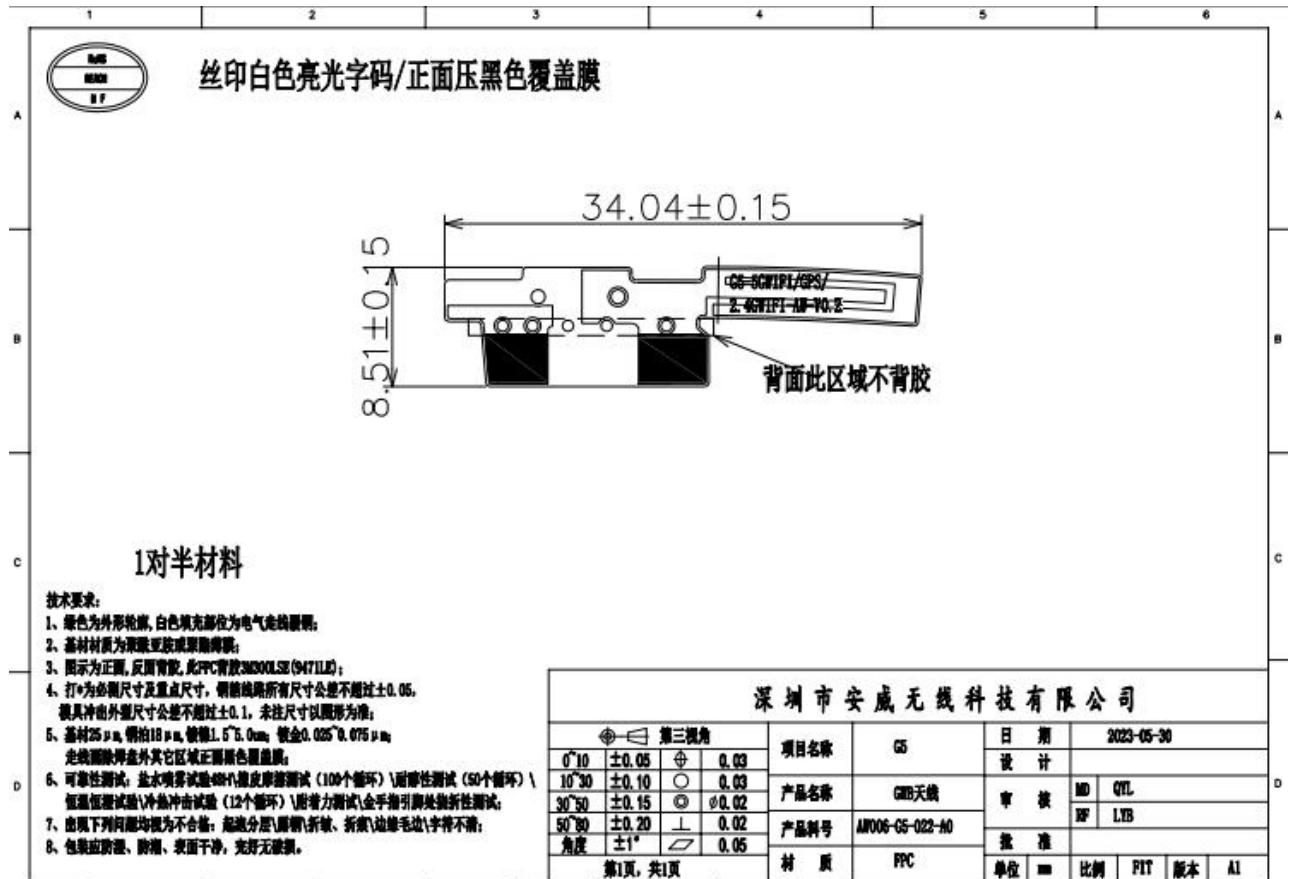
The customer brought their own matching, which was not changed

5GWIFI 天线 (5GWIFI antenna)

GPS 天线工作频段 (Working frequency band of GPS antenna) : 1559MHZ~1616MHZ

5GWIFI 工作频段 (Working frequency band of 5GWIFI antenna) : 5150MHZ~5850MH

2.4GWIFI 天线 (2.4GWIFI antenna) (Working frequency band of 5GWIFI antenna) : 2400MHZ~2500MH



**ANWEI ANT TRP&TIS parameter Summary of G5**

	Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)
FDD B1	18050	19.72		FDD B17	23780	17.11		TDD 34	36250	19.33	
	18300	20			23790	17.28			36275	19.6	
	18550	20.39	-93.39		23800	17.5	-91.62		36300	19.48	-90.4
FDD B2	18650	19.38		FDD B20	24200	17.66		TDD 38	37850	19.11	
	18900	19.27			24300	17.87			38000	19.83	
	19150	19.66	-93.38		24400	16.59	-89.41		38150	19.15	-88.73
FDD B3	19250	18.1		FDD B23A	27260	17.32		TDD 39	38350	19.17	
	19575	18.42			27370	17.85			38450	19.84	
	19900	18.46	-93.05		27469	18.28	-92.58		38550	19.53	-90.45
FDD B4	20000	19.09		FDD B25B	27410	18.21		TDD 40	38750	18.09	
	20175	19.05			27510	18.41			39150	18.76	
	20350	19.16	-93.33		27600	18.79	-90.17		39550	19.42	-90.83
FDD B5	20450	17.81		FDD B66	132022	18.4		TDD 41			
	20525	18.49			132322	18.13			40620	18.73	-90.7
	20600	18.29	-91.51		132622	18.28	-93.04				
FDD B7	20800	18.29									
	21100	18.05									
	21400	19.2	-90.73								
FDD B8	21500	16.14									
	21625	16.41									
	21750	15.39	-87.4								
FDD B12	23060	15.98									
	23095	16.31									
	23130	16.73	-91.71								

	Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)
GSM 850	128	25.72						W 1	9612	19.12	
	190	26.12							9750	19.16	
	251	26.63	-103.23						9888	19.3	-107.21
GSM 900	1	25.53						W 2	9262	18.94	
	62	25.83							9400	18.89	
	124	25.25	-98.06						9538	18.99	-107.98
DCS 1800	512	26.87						W 4	1312	19.07	
	698	26.63							1413	19.16	
	885	26.24	-106.02						1513	19.8	-107.93
PCS 1900	512	25.47						W 5	4132	16.09	
	661	25.75							4183	16.3	
	810	26.17	-104.16						4233	16.06	-104.7
								W 8	2712	15.77	
									2787	15.89	
									2863	15.31	-100.1

## GPS 测试(GPS Test)



基本稳定 3 颗 40 以上

## WIFI TEST:

e5						
BAND	2.4WIFI			5.8WIFI		
CHANNEL	low	medium	high	low	medium	high
TRP (dBm)	10.4	10.5	11.3	12.4	12.2	12.3
TIS (dBm)	-79.6	-79.2	-78.8	-74.8	-74.5	-74.2

## 天线增益(Antenna gain)

Standard	Band	Frequency	Gain(dbi)
TDD_LTE	TDD_B34	2020	1.52
TDD_LTE	TDD_B38	2580	1.79
TDD_LTE	TDD_B39	1900	1.12
TDD_LTE	TDD_B40	2310	1.44
TDD_LTE	TDD_B41	2593	1.79
FDD_LTE	FDD_B1	1925	0.95
FDD_LTE	FDD_B2	1855	0.91
FDD_LTE	FDD_B3	1715	0.64
FDD_LTE	FDD_B4	1715	0.64
FDD_LTE	FDD_B5	829	-1.15
FDD_LTE	FDD_B7	2505	1.78
FDD_LTE	FDD_B8	885	-0.83
FDD_LTE	FDD_B12	704	-1.92
FDD_LTE	FDD_B17	709	-1.92
FDD_LTE	FDD_B20	837	-1.24
FDD_LTE	FDD_B28	708	-1.91
FDD_LTE	FDD_B28	723	-1.85
WCDMA	WCDMA_B1	1922.4	0.95
WCDMA	WCDMA_B2	1852.4	0.91
WCDMA	WCDMA_B4	1715	0.64
WCDMA	WCDMA_B5	826.4	-1.15
WCDMA	WCDMA_B8	882.4	-0.83
GSM	GSM850	824.2	-1.15
GSM	GSM900	890.2	-0.83
GSM	PCS1900	1850.2	0.91
GSM	DCS1800	1710.2	0.63
2.4GWIFI		2412	1.76
5GWIFI		5825	1.23
GPS		1575	1.14
BT		2400	1.76



## 环境处理方式 (Environmental treatment)

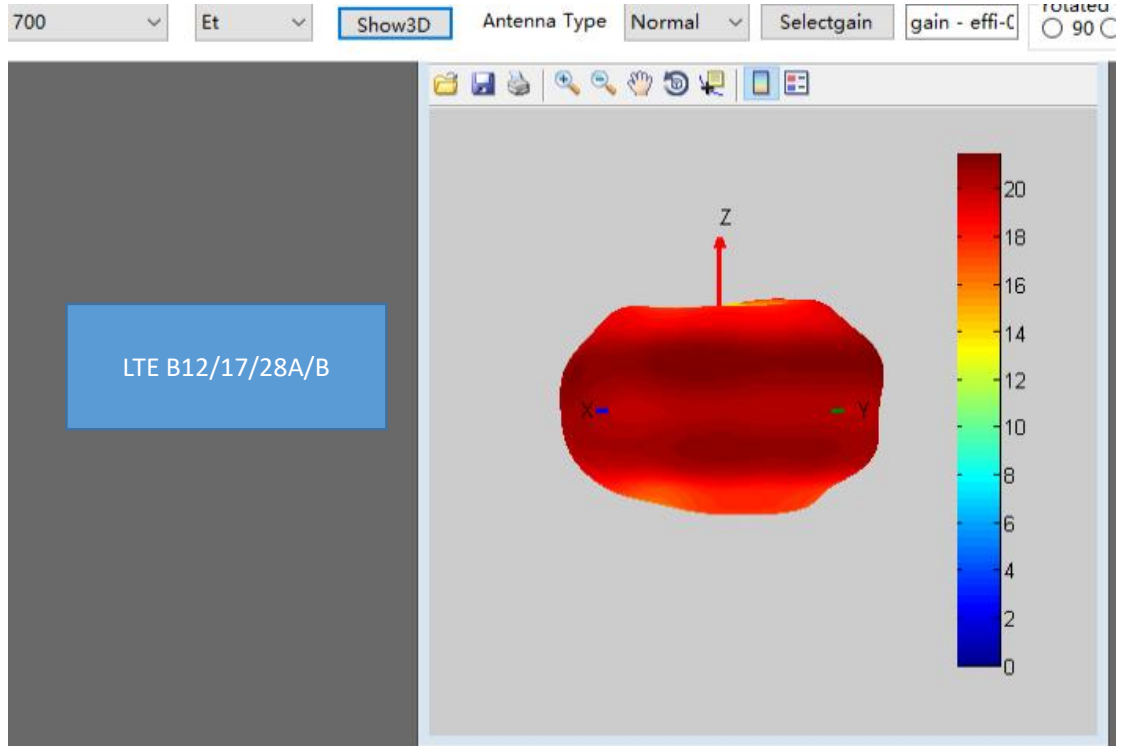


Mainboard  
grounding with  
conductive  
sponge



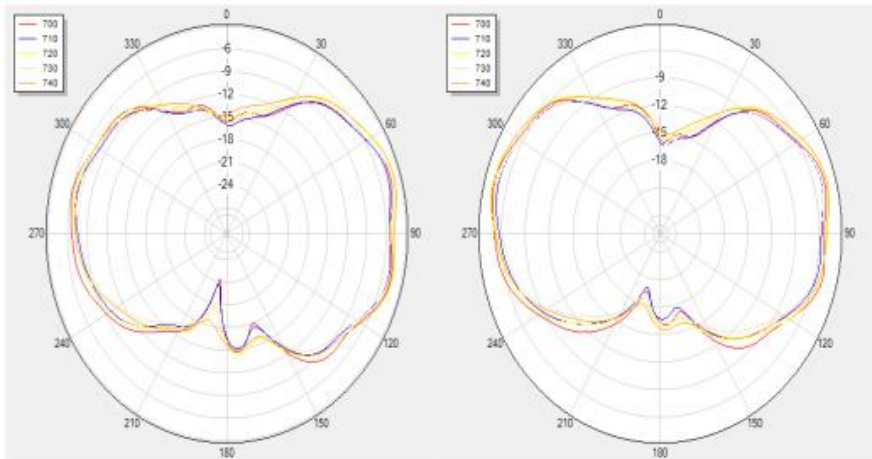
Small board with  
conductive sponge  
grounding

**The Apple and Direction charts are as follows:**



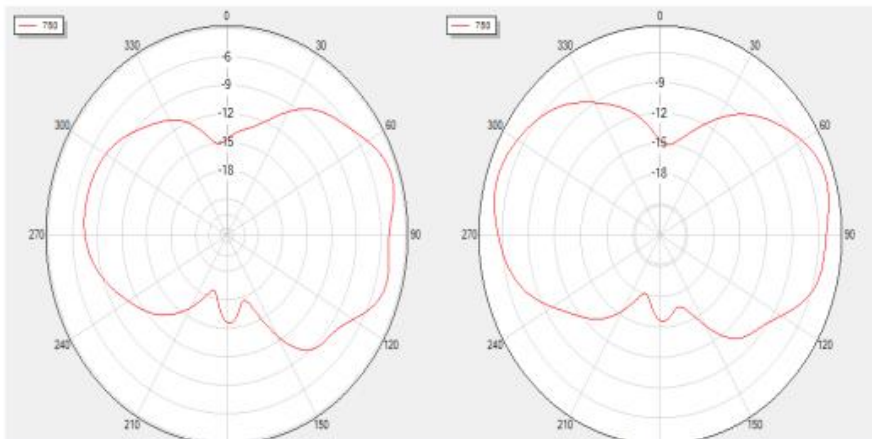
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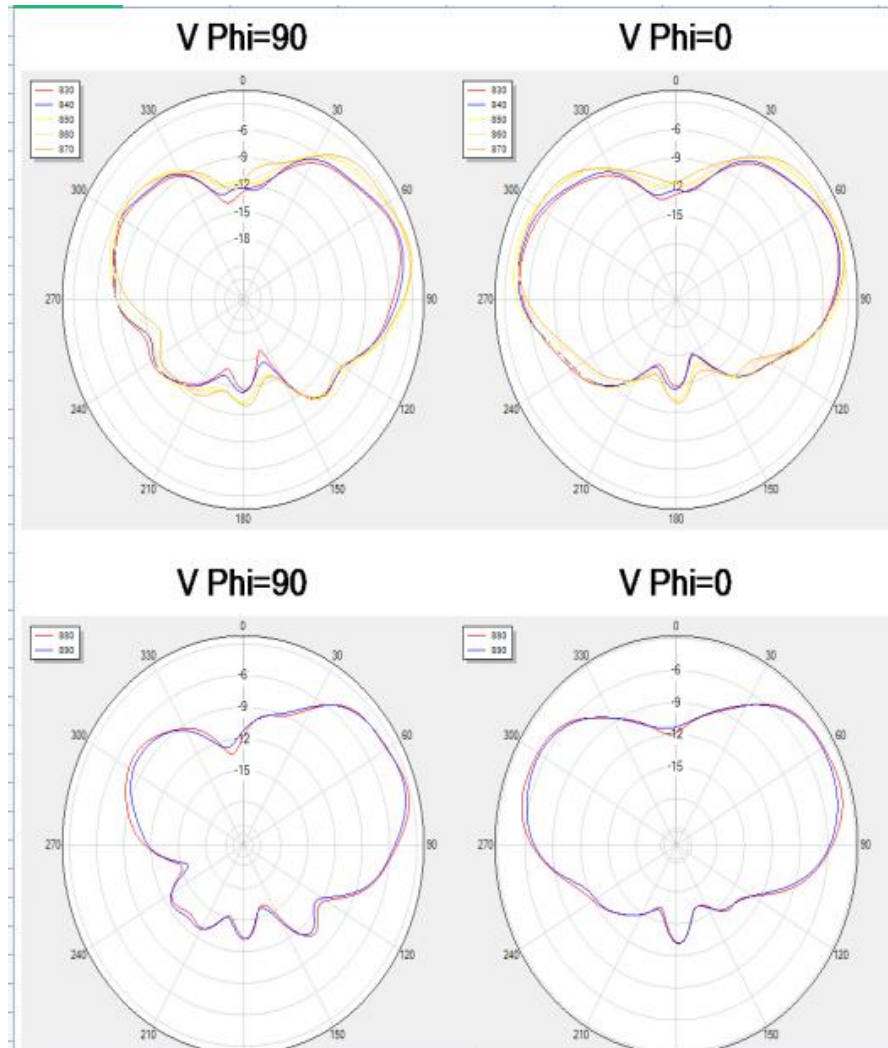
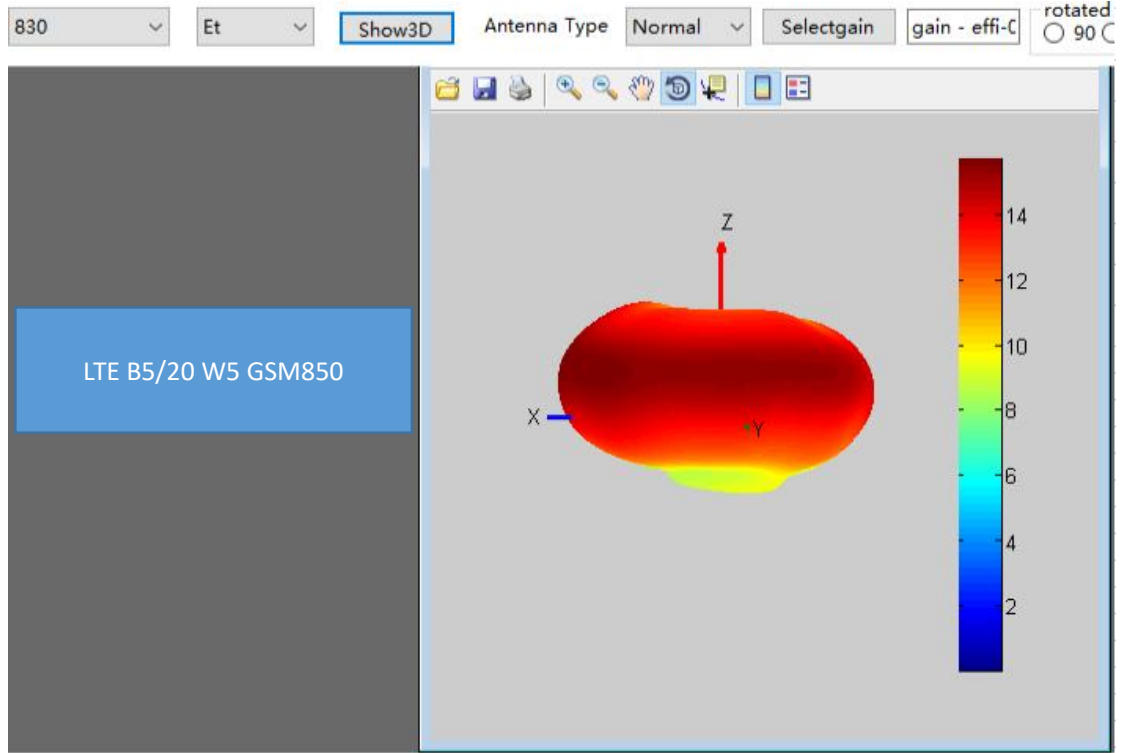
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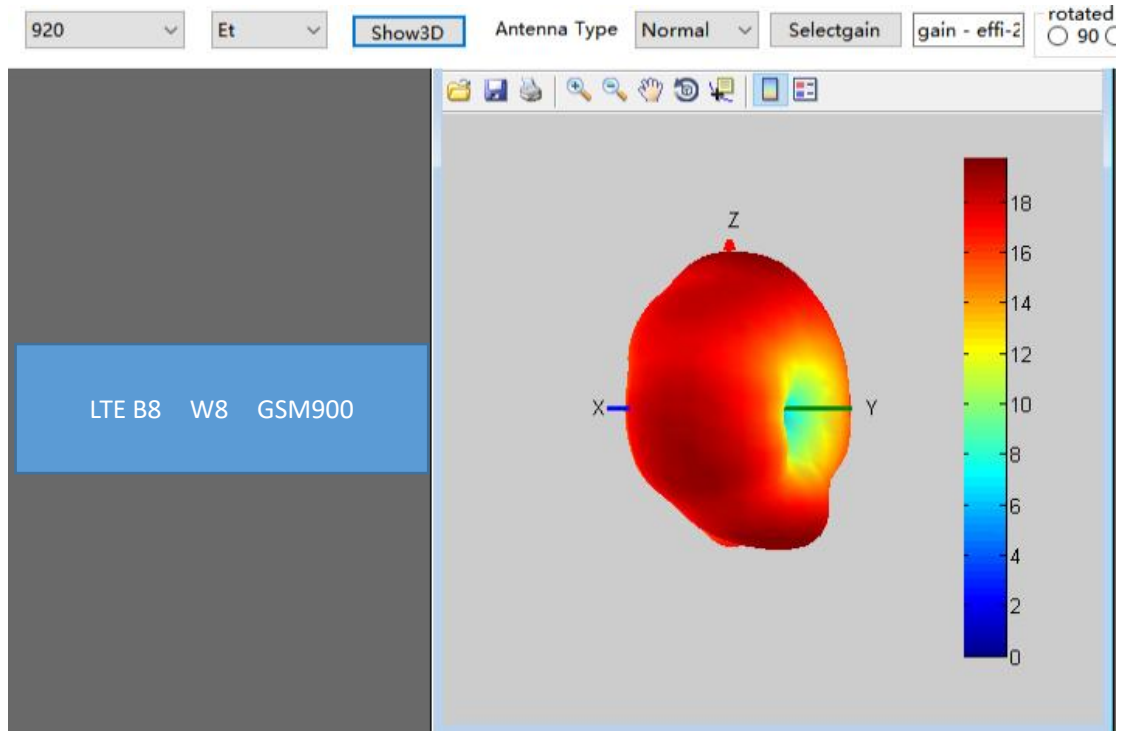


V Phi=90

V Phi=0

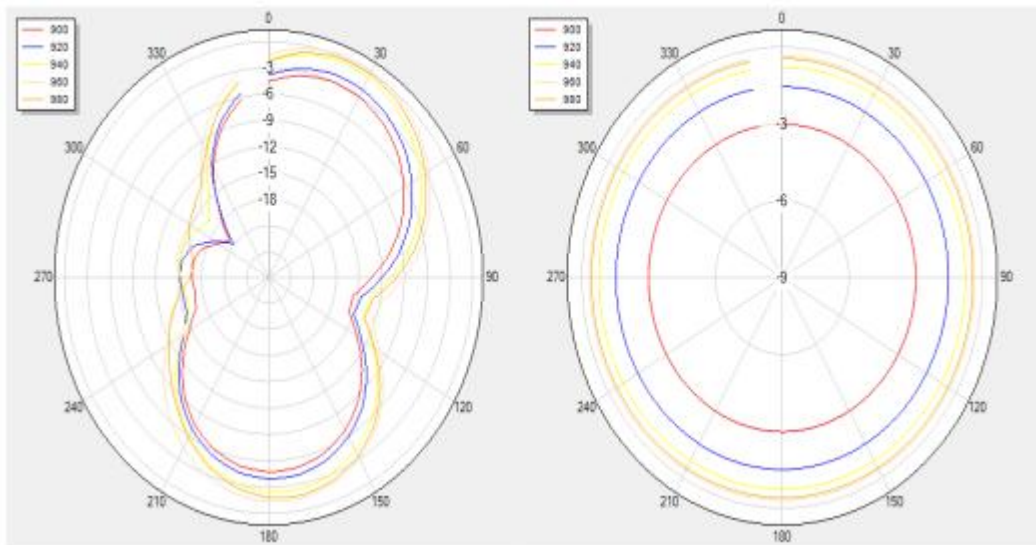


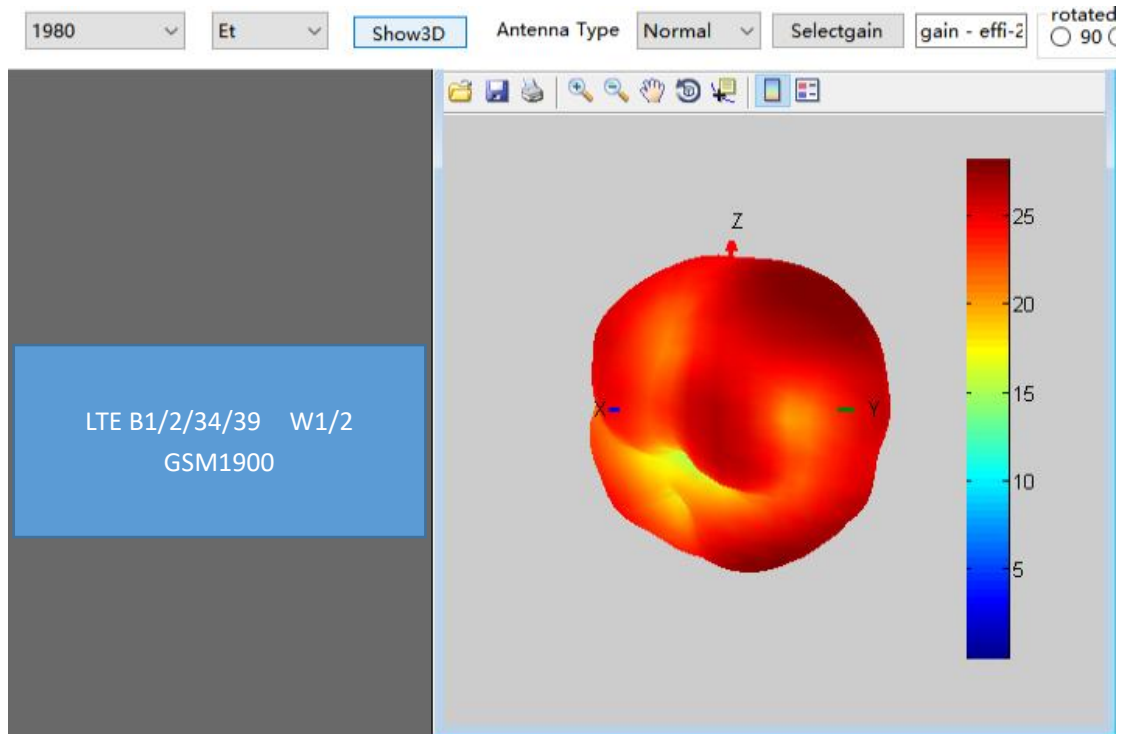




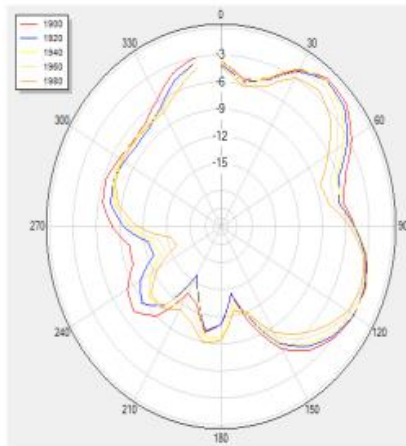
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H Theta=0

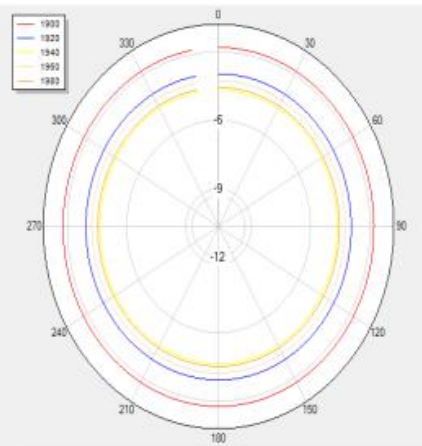




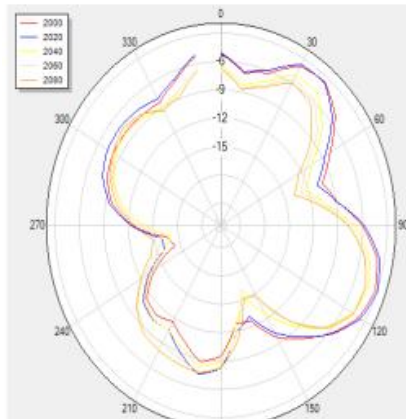
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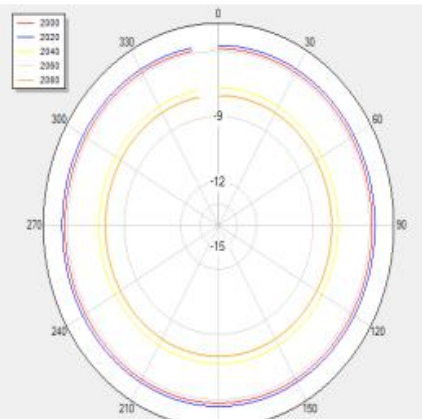
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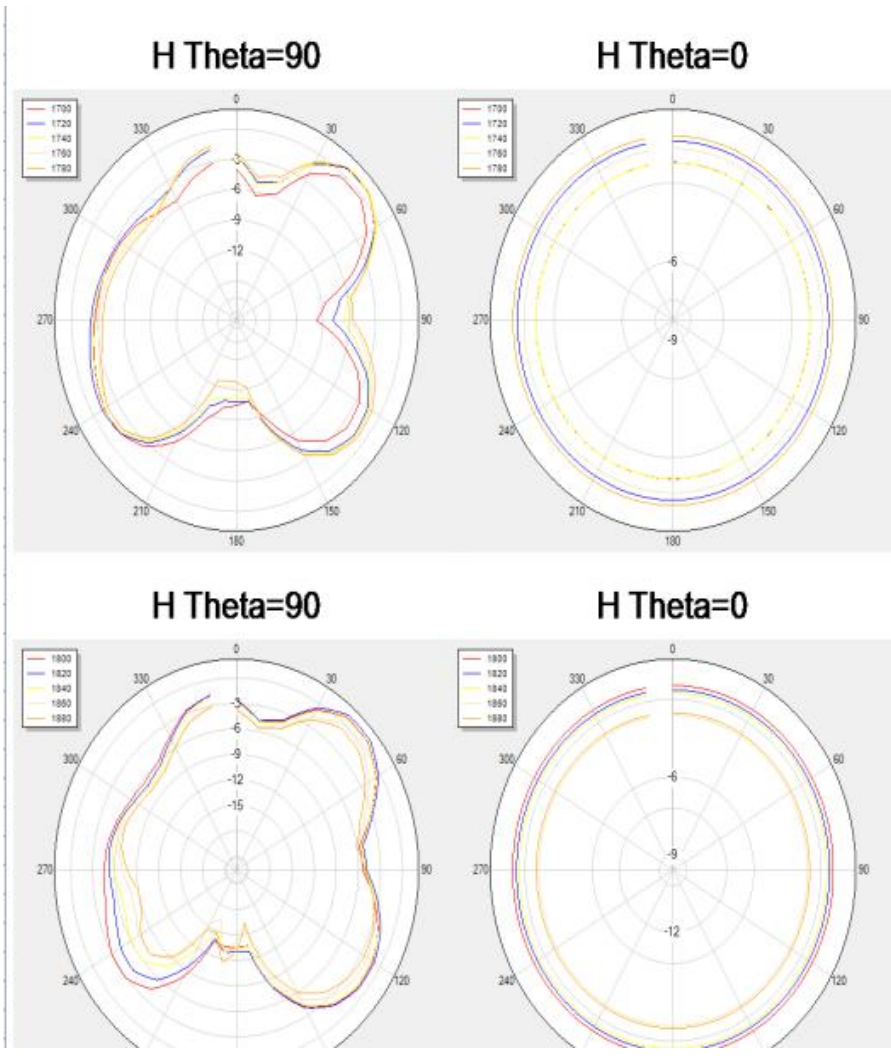
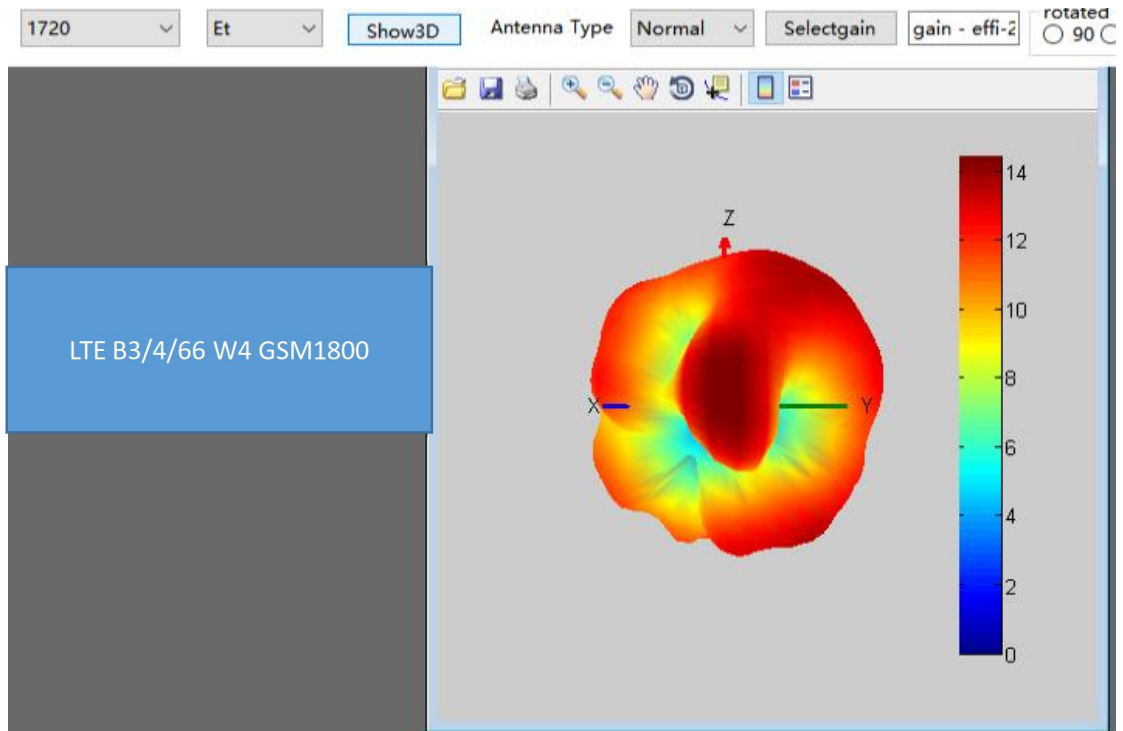


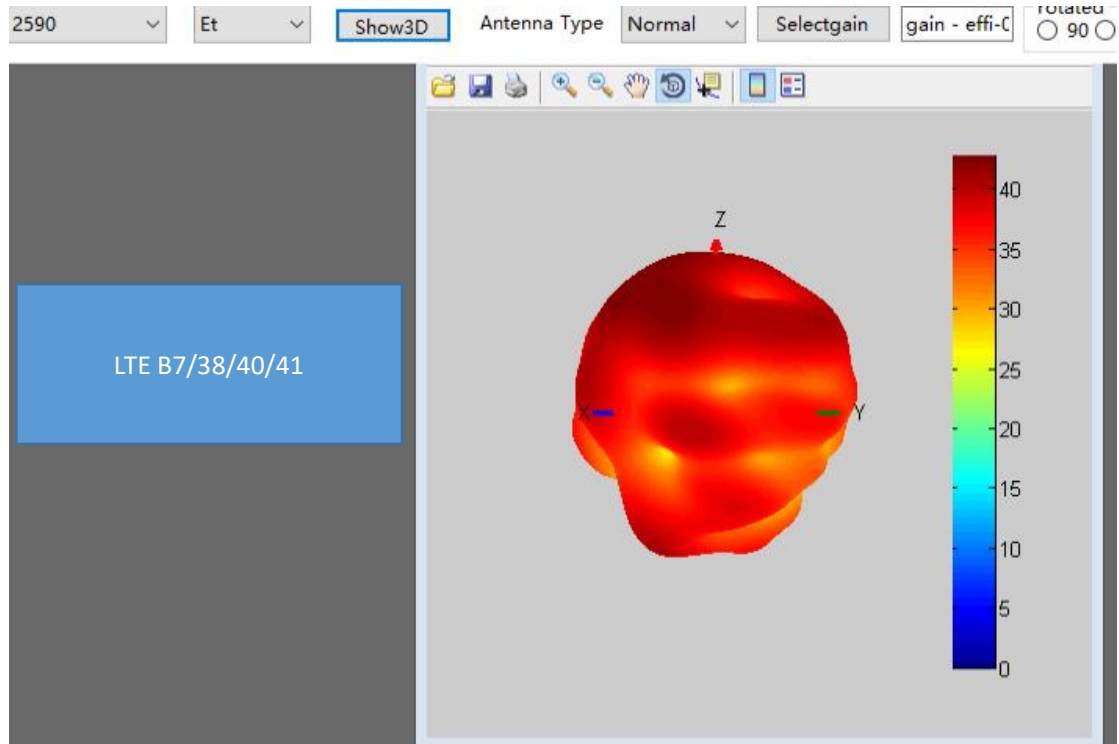
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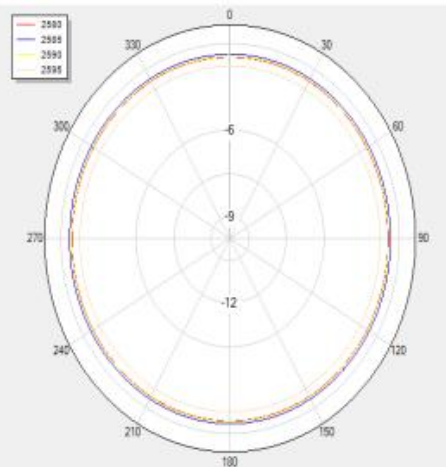
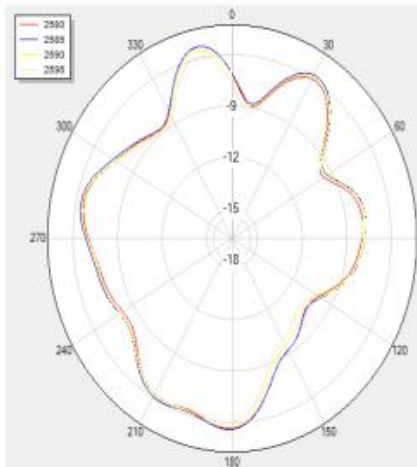






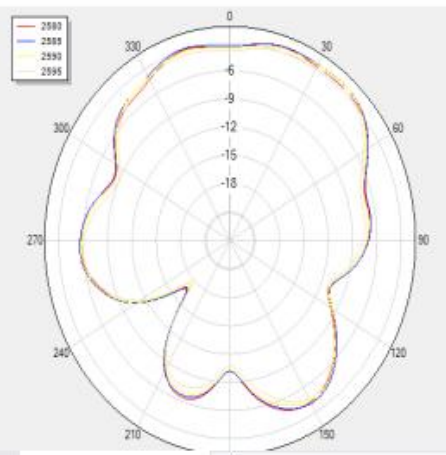
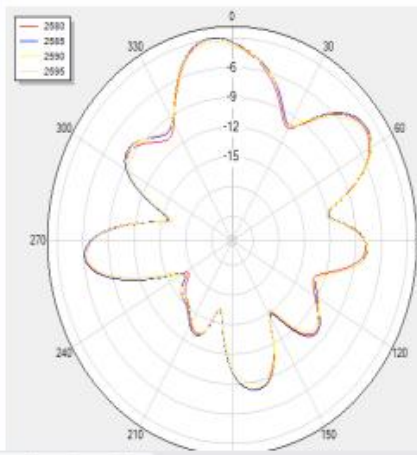
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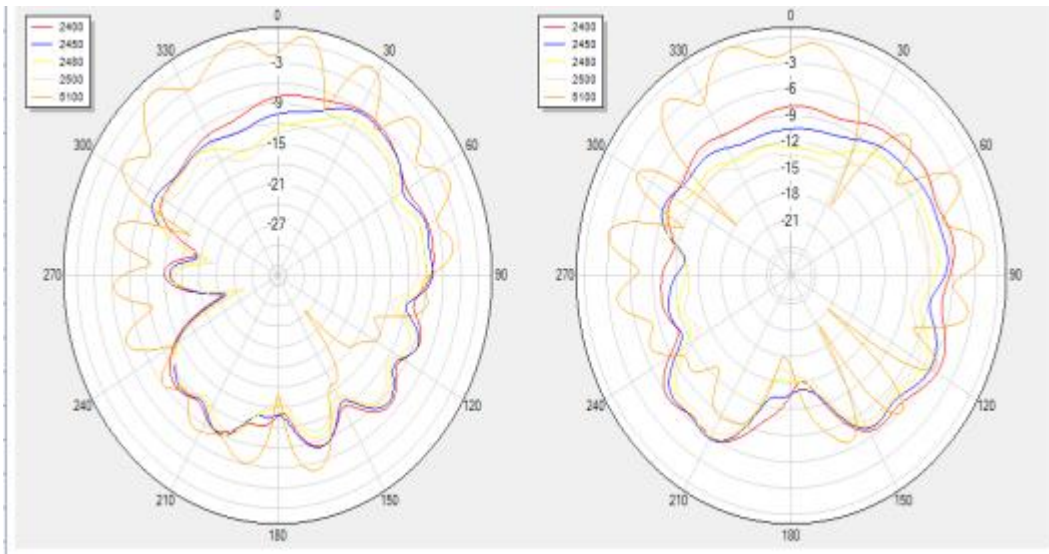
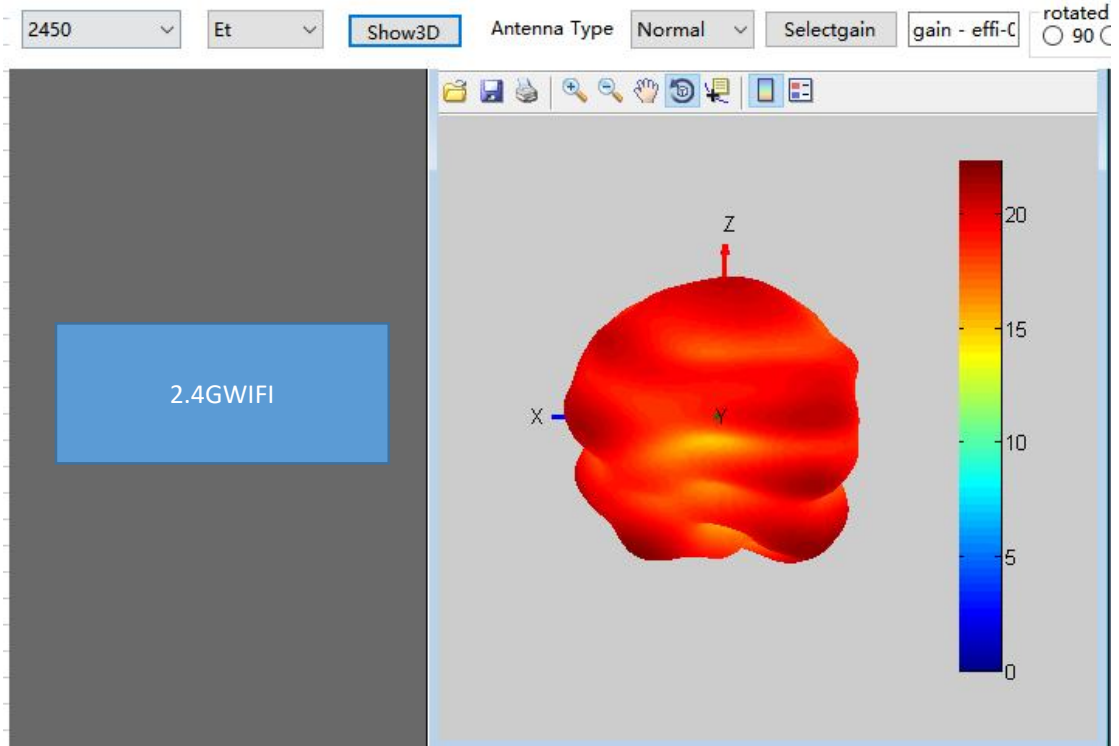
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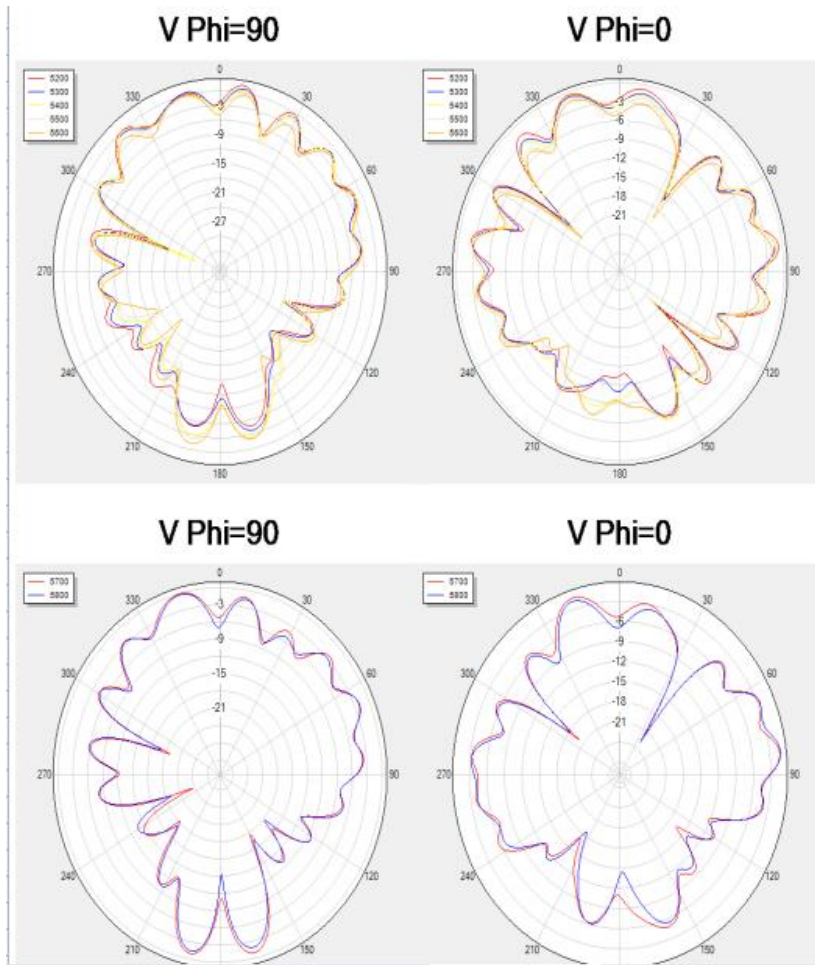
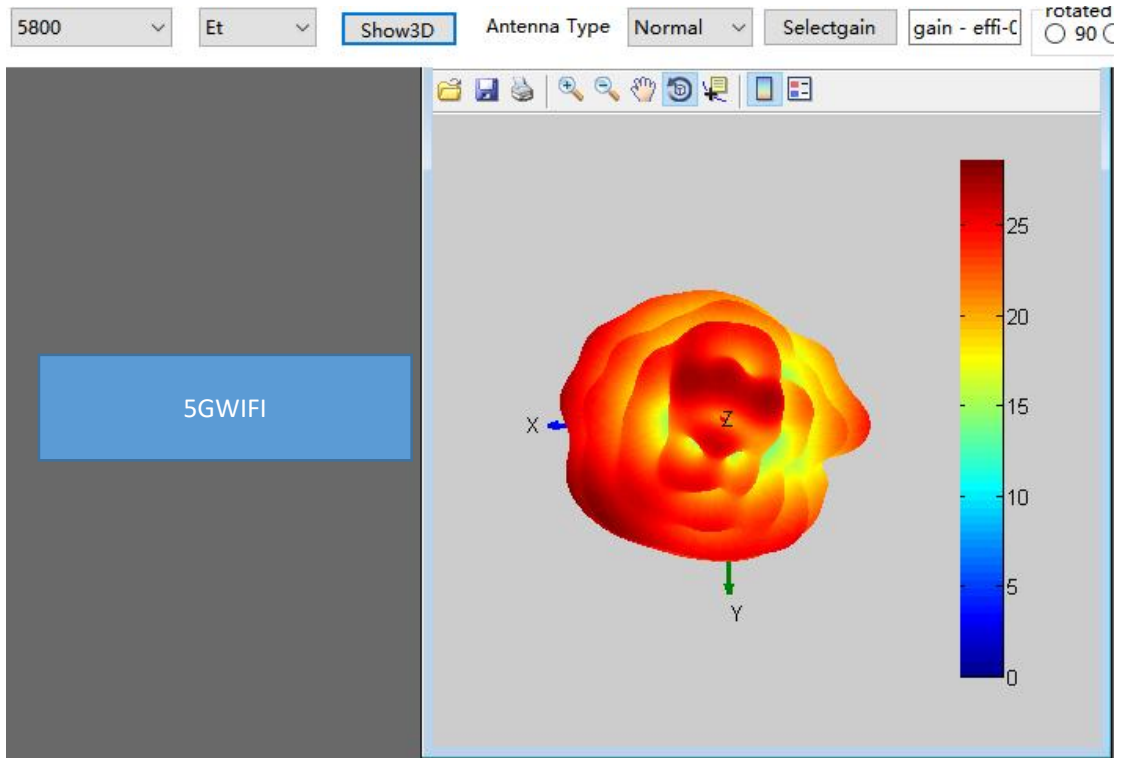
V Phi=90

V Phi=0











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

# The End

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## 携手共进 共创未来

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微信服务号

