

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	G2
安威料号 Part Number		频段 Frequency Band	G4P+W1/2/4/5/8+FDD1/2/3/4/5/7/8/12/17/20/ 28A/B+TDD34/38/39/40/41+BC0/BC1
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	2022/12/30	签字日期 Signing Date	

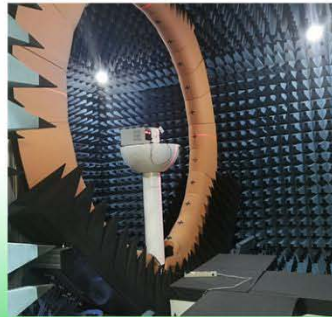
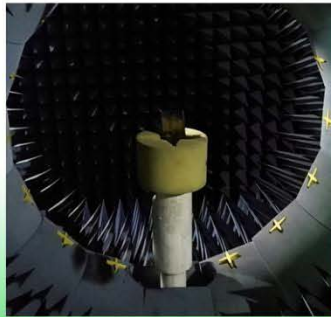
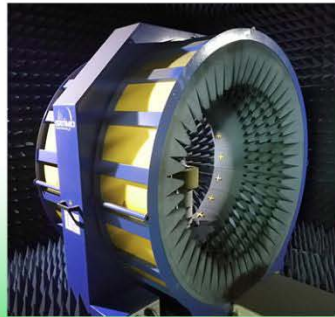
客户确认 Customer confirmation:

携手共进 共创未来

Join hands to create the future

● 项目开发环境

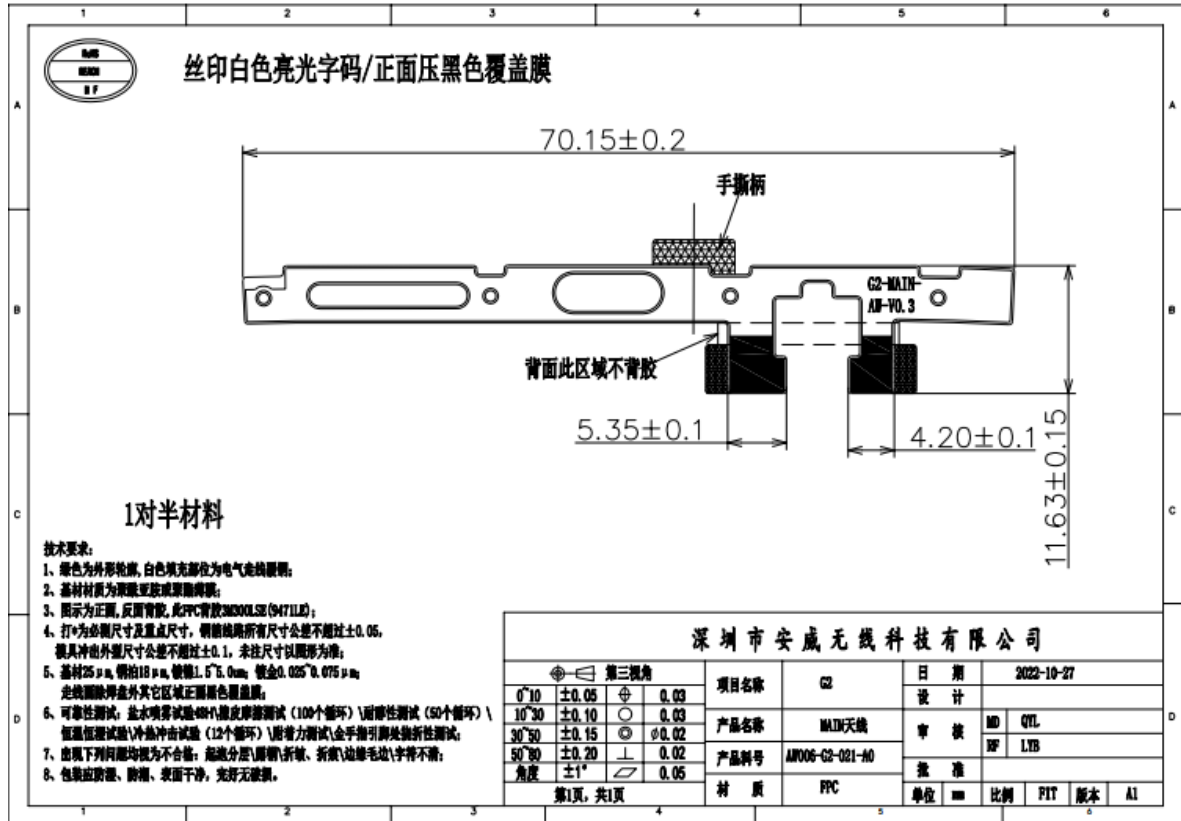
Project development environment



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 ((MIMOantenna 0))



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

WCDMA1/2/4/5/8 BC0/BC1

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(MIMOantenna 1)

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

123456

ABCD

丝印白色亮光字码/正面压黑色覆盖膜

1对半材料

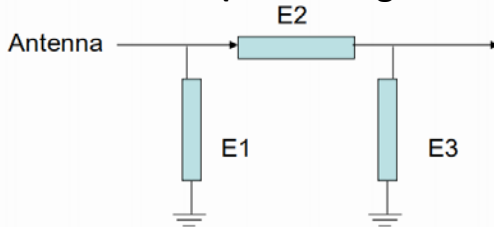
技术要求:

- 颜色为外形轮廓, 白色填充部位为电气走线覆盖膜;
- 基材材质为聚酰亚胺或聚酰亚胺膜;
- 图示为正面, 反面背胶, 此FPC背胶3M300LSE(9471LE);
- 打*为必测尺寸及重点尺寸, 制程结束所有尺寸公差不得超过±0.05, 模具冲也外模尺寸公差不得超过±0.1, 未注尺寸以图样为准;
- 基材25μm, 铜箔18μm, 镀锡1.5~5.0um; 镀金0.025~0.075μm;
- 走线面积冲叠外其它区域正反面黑色覆盖膜;
- 可靠性测试: 盐雾试验(48h)\膜皮摩擦测试(100个循环)\耐弯折测试(50个循环)\恒湿恒湿试验\冷热冲击试验(12个循环)\附着力测试\金手指引脚处耐折性测试;
- 出现下列问题均视为不合格: 起翘分层\虚焊\折痕、折裂\边缘毛边\字符不清;
- 包装应防震、防潮、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	G2	日期	2022-10-27	
0°/10	±0.05	⊕	设计		
10°/30	±0.10	⊙	产品名称	DIV天线	
30°/50	±0.15	⊗	审核	MD	QTL
50°/90	±0.20	⊥	产品料号	AW006-G2-023-A0	
角度	±1°	∠	批准	DF	LTY
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)



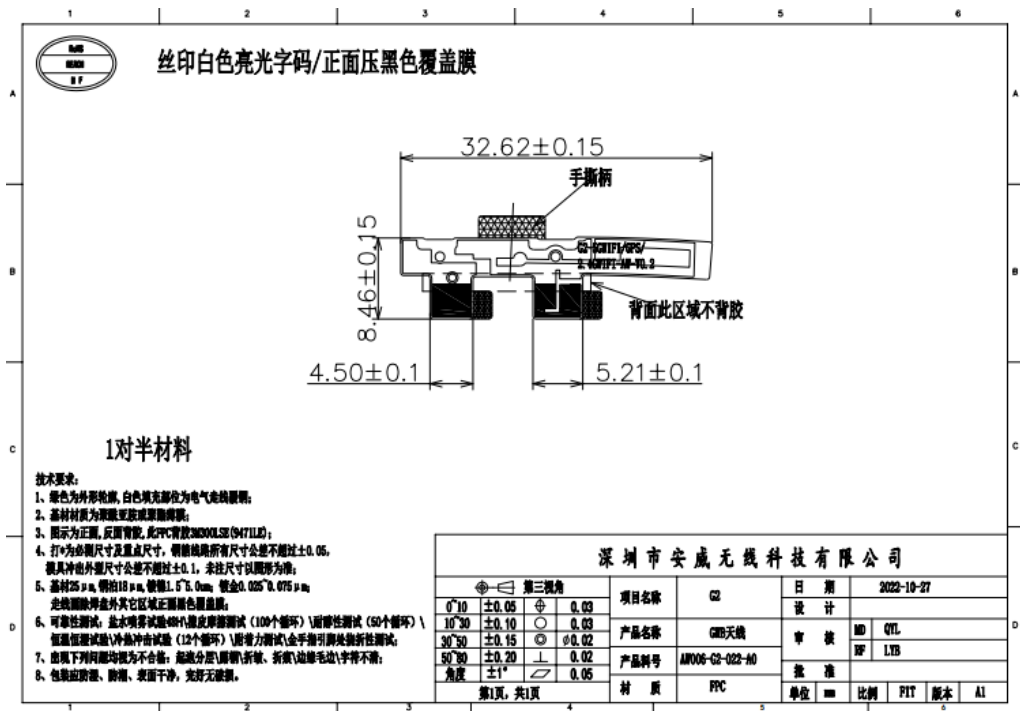
🌿 主板匹配改动



5GWIFI 天线 (5GWIFI antenna)

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 G2

	Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)
FDD B1	18050	18.45		FDD B17	23780	18.17		TDD 34	36250	18.74	
	18300	18.63			23790	18.56			36275	18.67	
	18550	17.76	-92.21		23800	1.02	-90.36		36300	18.58	-90.27
FDD B2	18650	19.01		FDD B20	24200	18.1		TDD 38	37850	17.58	
	18900	19.13			24300	19.36			38000	17.43	
	19150	19.83	-92.38		24400	19.4	-90.54		38150	15.87	-88.4
FDD B3	19250	18.48		FDD B28A	27260	18.09		TDD 39	38350	19.17	
	19575	18.16			27370	18.58			38450	18.79	
	19900	18.61	-91.2		27469	18.81	-90.1		38550	19.49	-90.54
FDD B4	20000	18.58		FDD B28B	27410	18.22		TDD 40	38750	18.51	
	20175	18.25			27510	18.1			39150	18.5	
	20350	18.22	-91.75		27600	18.18	-89.82		39550	17.85	-87.47
FDD B5	20450	19.45					TDD 41	40620	16.63	-89.25	
	20525	20.02									
	20600	20.14	-90.33								
FDD B7	20800	17.47									
	21100	17.84									
	21400	17.61	-90.77								
FDD B8	21500	18.52									
	21625	18.56									
	21750	18.93	-90.27								
FDD B12	23080	17.97									
	23095	18.41									
	23130	18.69	-91.64								

	Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)		Channel	TRP (dBm)	TIS (dBm)
GSM 850	128	26.62		GSM850			-102.51	W 1	9612	18.18	
	190	26.09					-101.47		9750	18.41	
	251	26.4	-102.1				-93.92		9888	17.64	-104.08
GSM 900	1	26.72		GSM900			-104.41	W 2	9262	19.79	
	62	26.95					-105.02		9400	19.91	
	124	27.82	-103.47				-99.23		9538	19.31	-103.74
DCS 1800	512	23.91		DCS1800			-102.32	W 4	1312	17.63	
	698	23.94					-102.66		1413	17.99	
	885	24.22	102.67				-102.02		1513	17.92	-102.61
PCS 1900	512	26.29		PCS1900			-104.53	W 5	4132	17.12	
	661	25.88					-104.17		4183	17.19	
	810	25.73	-104.18				-104.1		4233	17.13	-104.76
								W 6	4175	19.42	
									4188	19.49	
									4413	19.36	-103.69
								W 8	2712	16.44	
									2787	15.69	
									2863	15.86	-102.86
								BC0	283	19.45	
									384	18.75	
									777	18.6	-99.89
								BC1	25	16.36	
									600	17.1	
									1175	18.02	-103.89

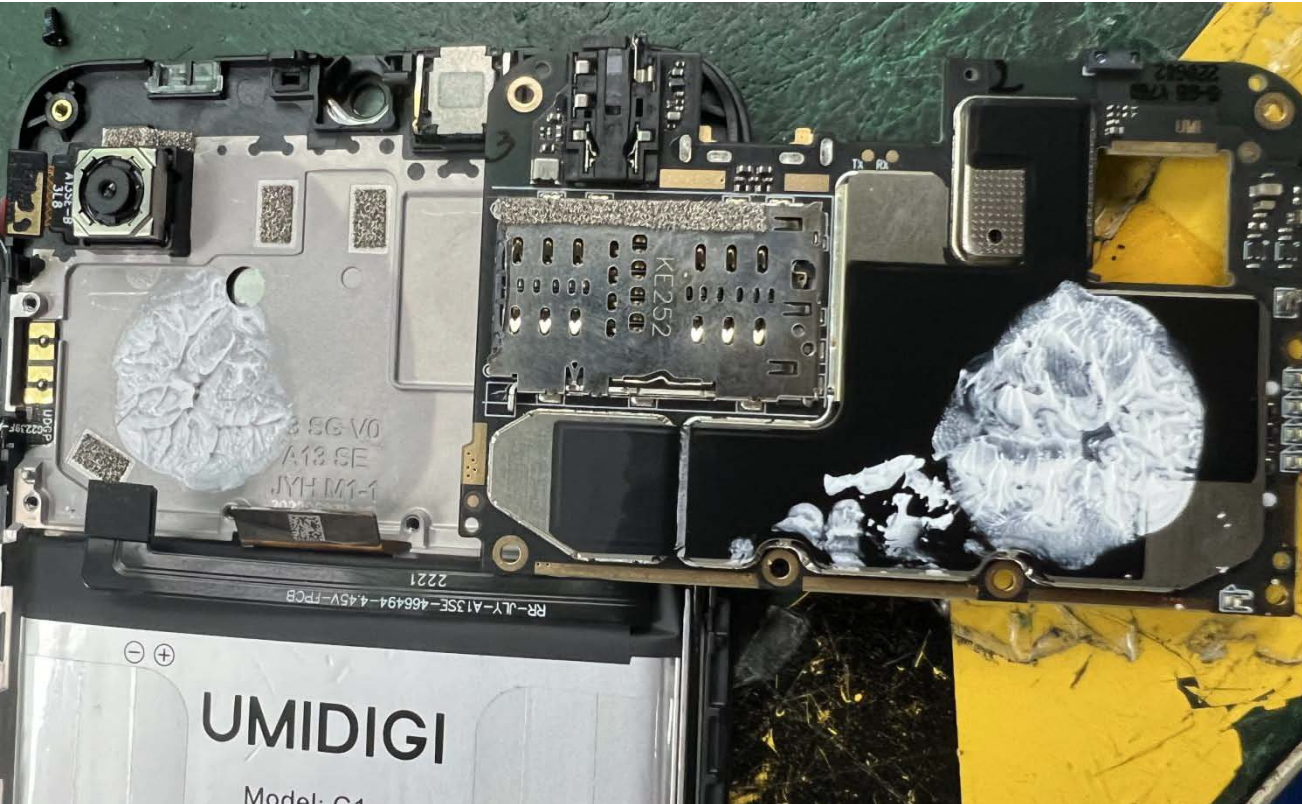
BAND	2.4GWIPI			5.8WIPI		
CHANNEL	low	medium	high	low	medium	high
TRP (dBm)	13.4	13.5	13.3	11.4	11.2	10.3
TIS (dBm)	-83.6	-83.1	-81.8	-75.8	-74.5	-73.8

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	1.75
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	-1.97
FDD_LTE	FDD_B17	709	-1.95
FDD_LTE	FDD_B20	837	-1.24
FDD_LTE	FDD_B28A	708	-1.91
FDD_LTE	FDD_B28B	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
BT		2400	1.76
BC0		824	-1.16

环境处理方式 (Environmental treatment)

Conductive sponge grounding is added at these two places





The small plate is grounded with conductive sponge



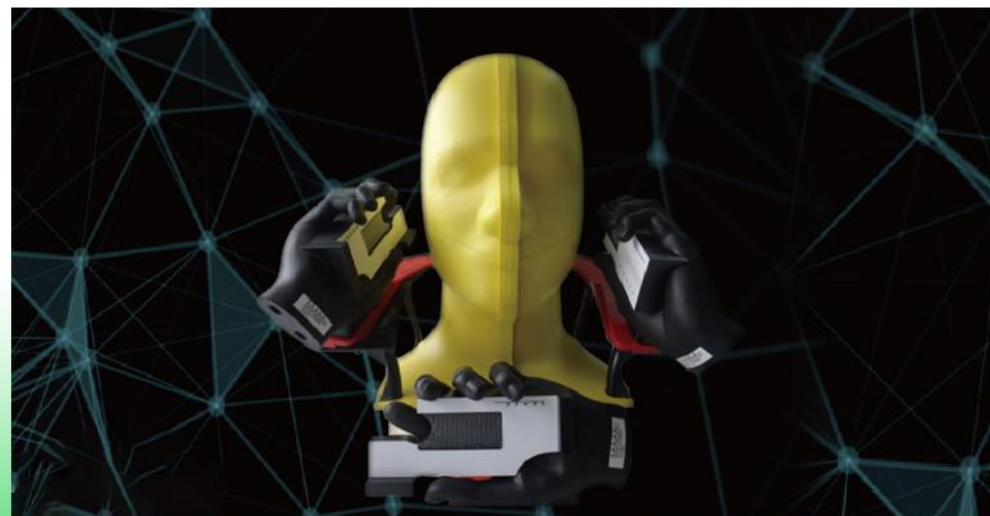
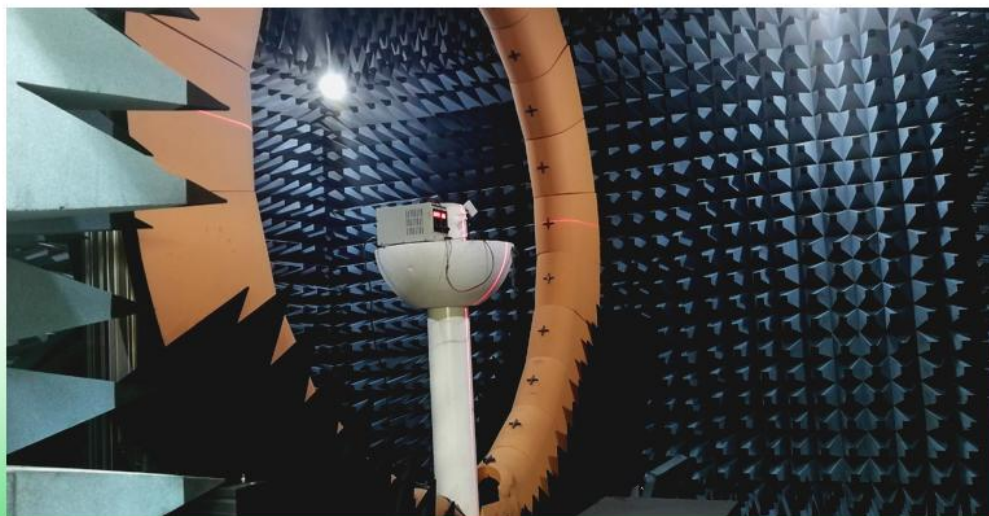
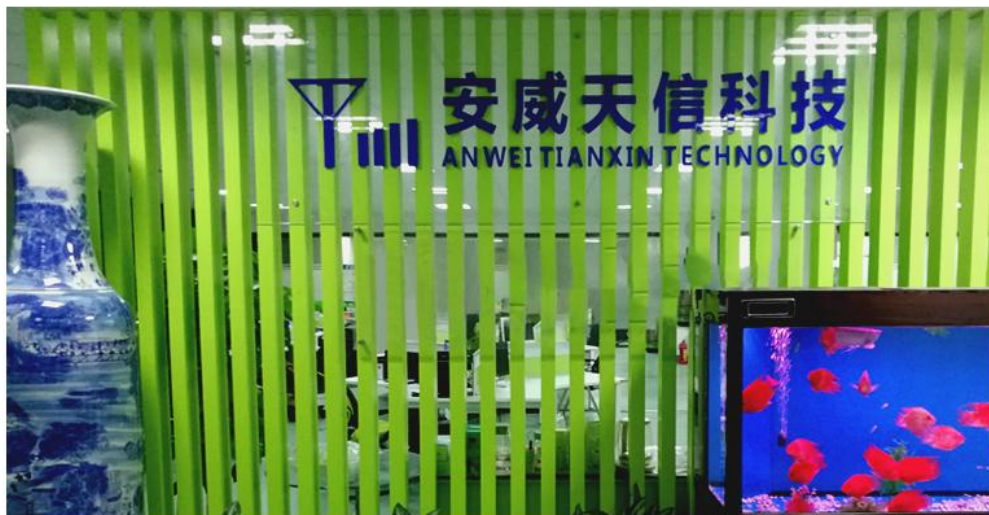
深圳市安威无线科技有限公司

行业领先的一站式通信射频天线解决方案制造商

天线苹果图和方向图

携手共进 共创未来

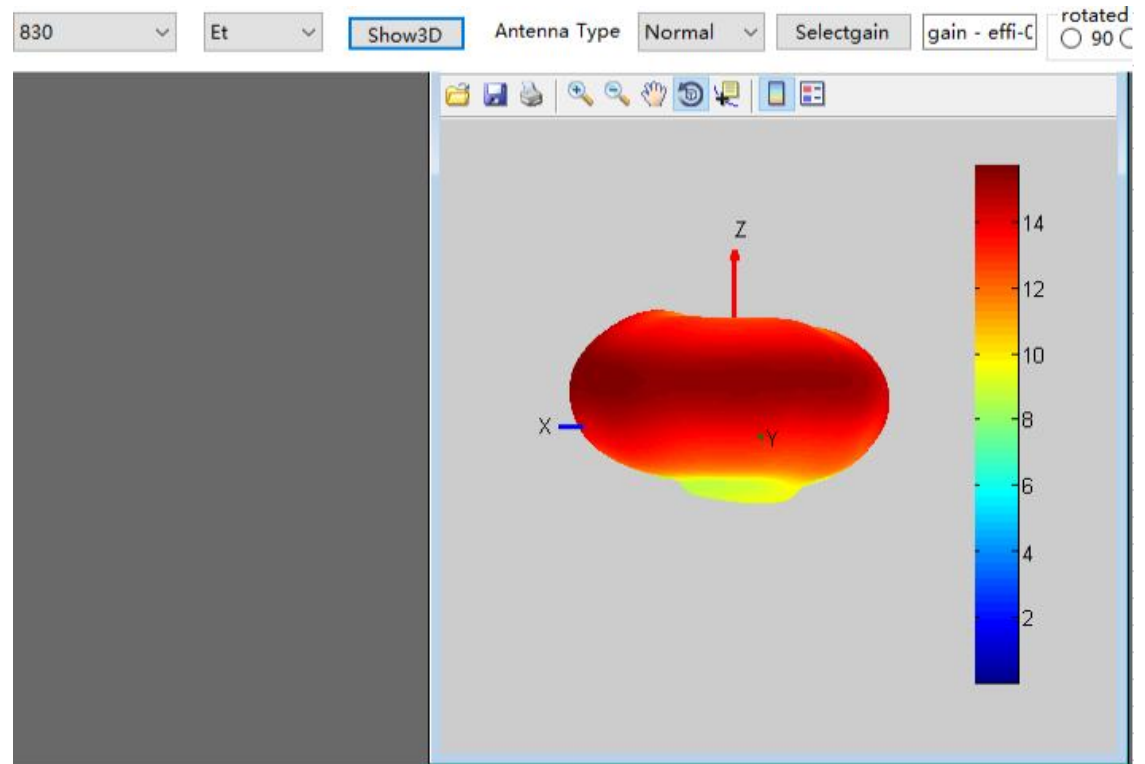
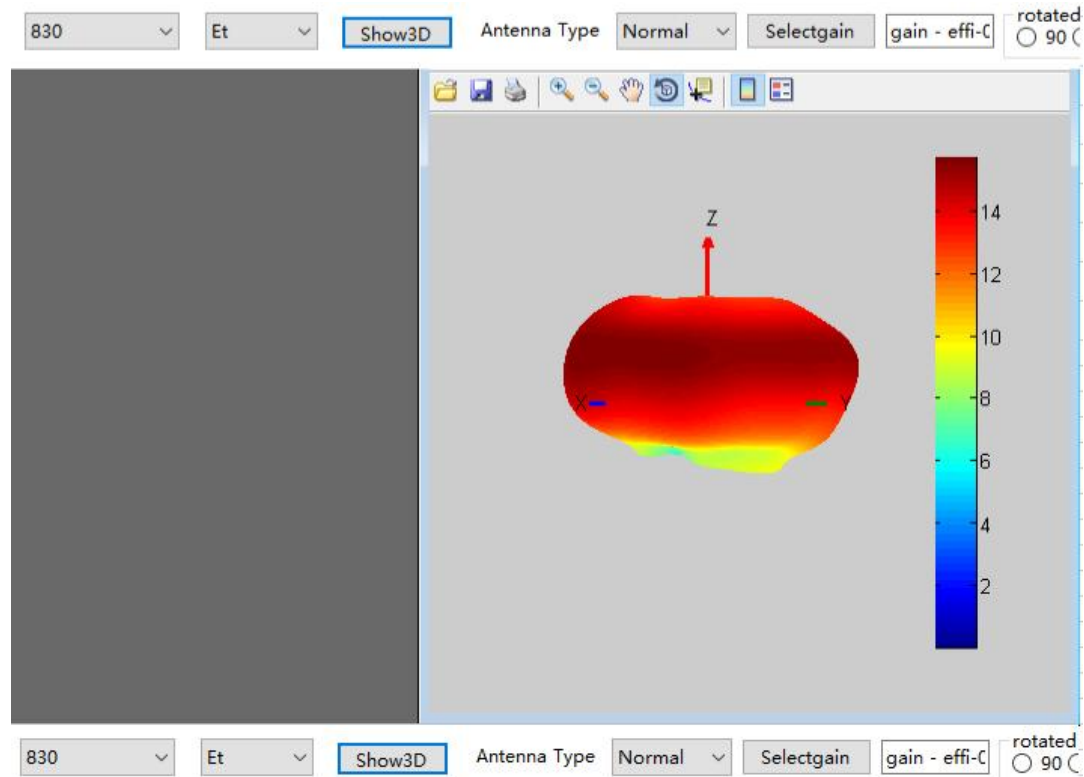
项目开发环境



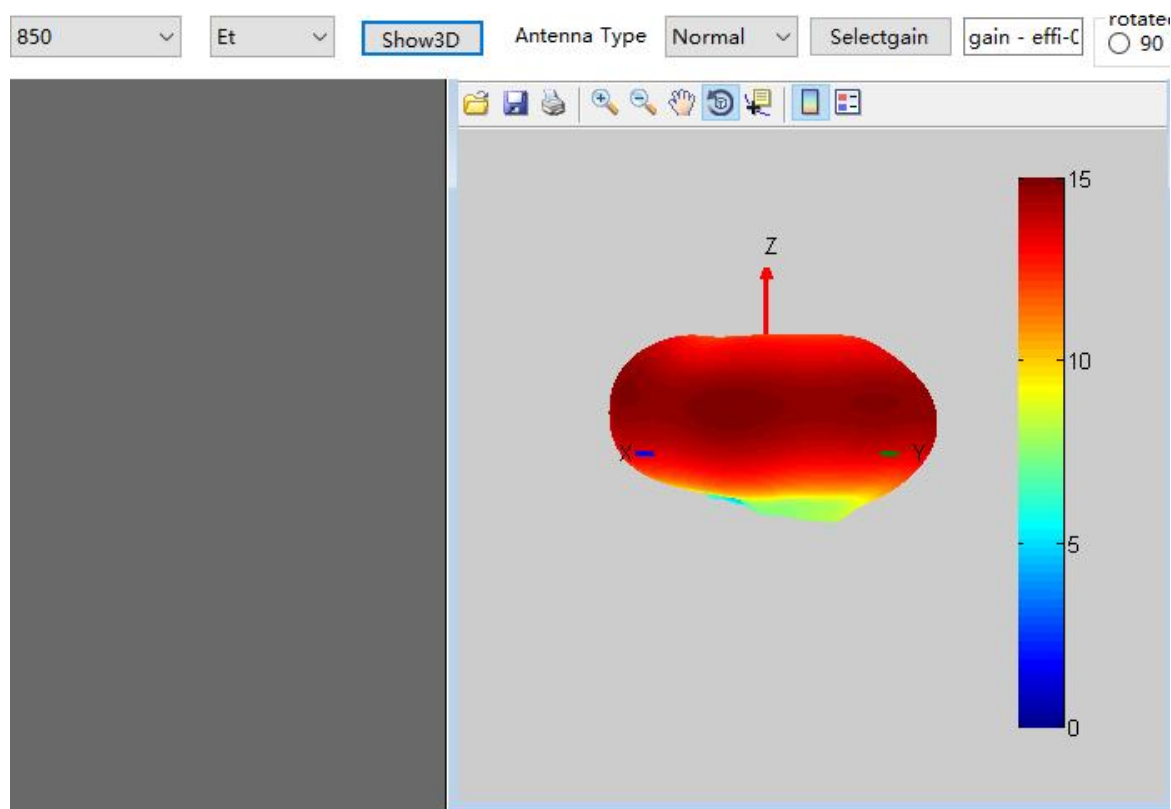
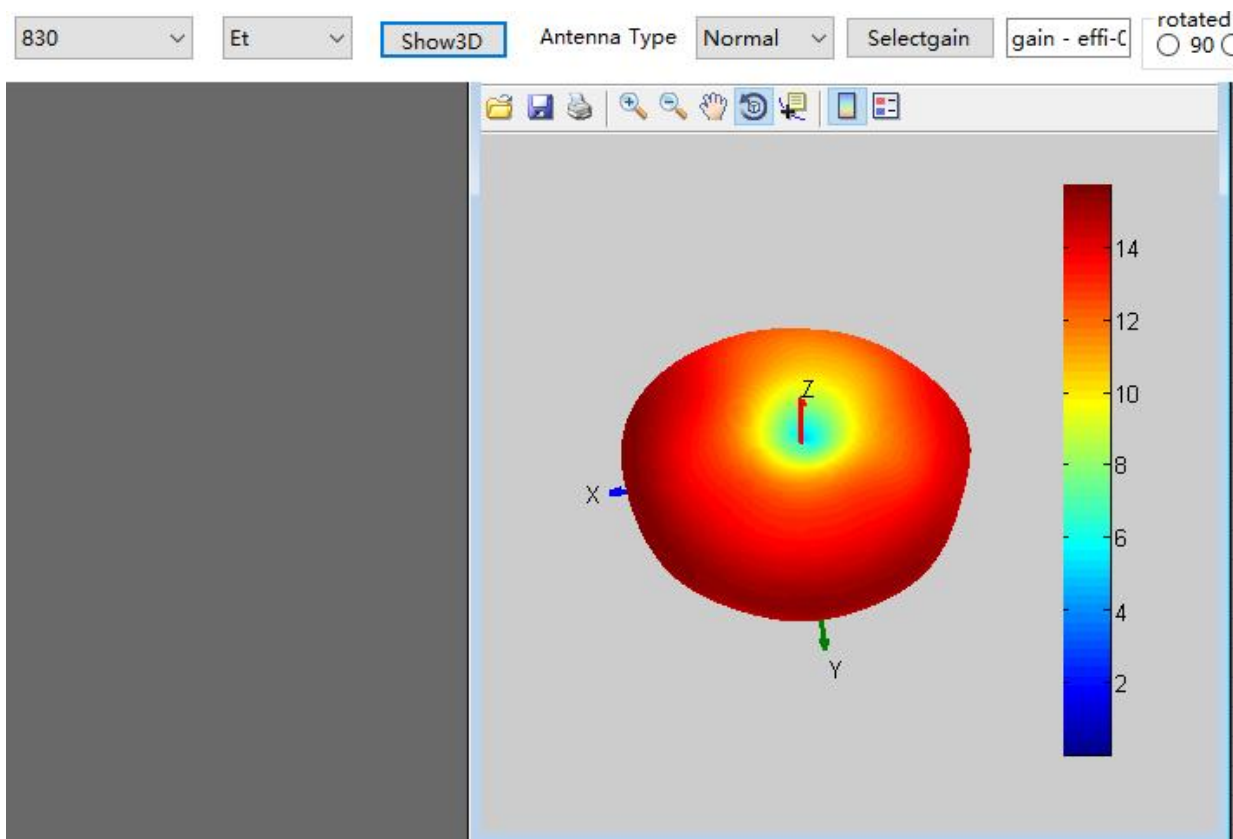
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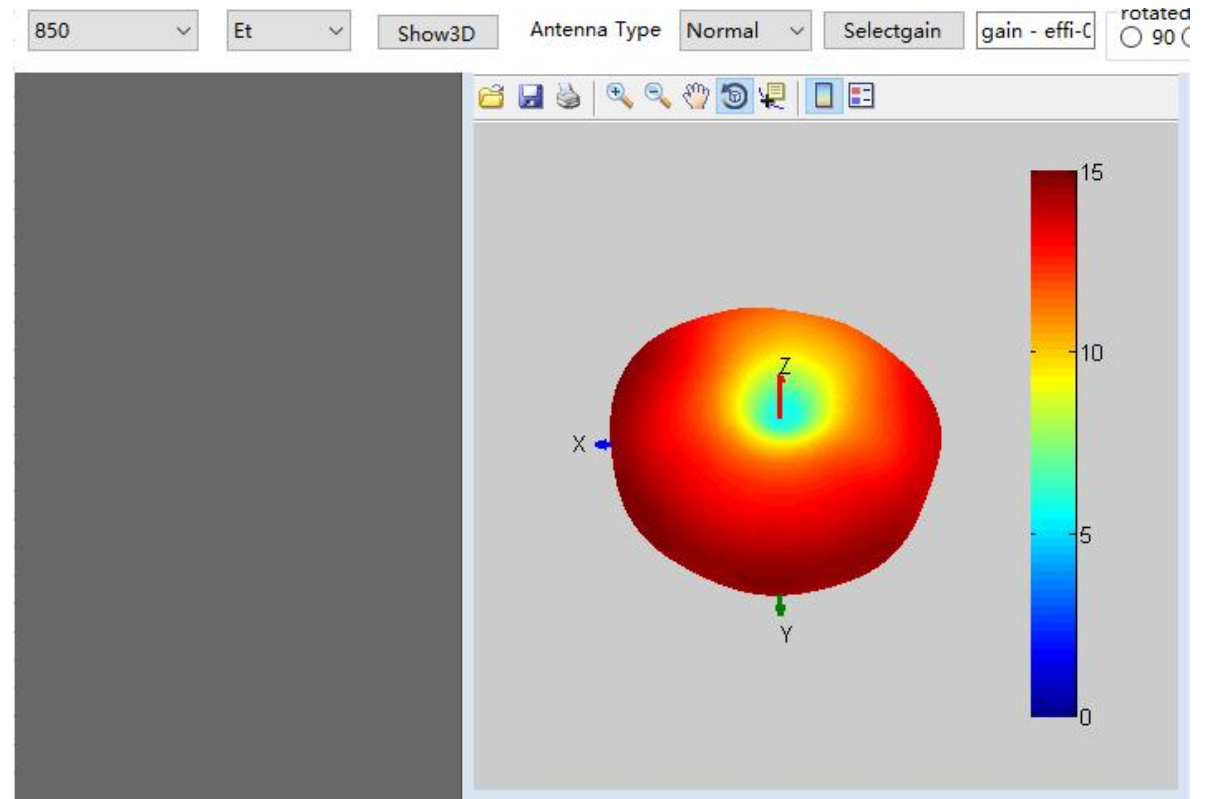
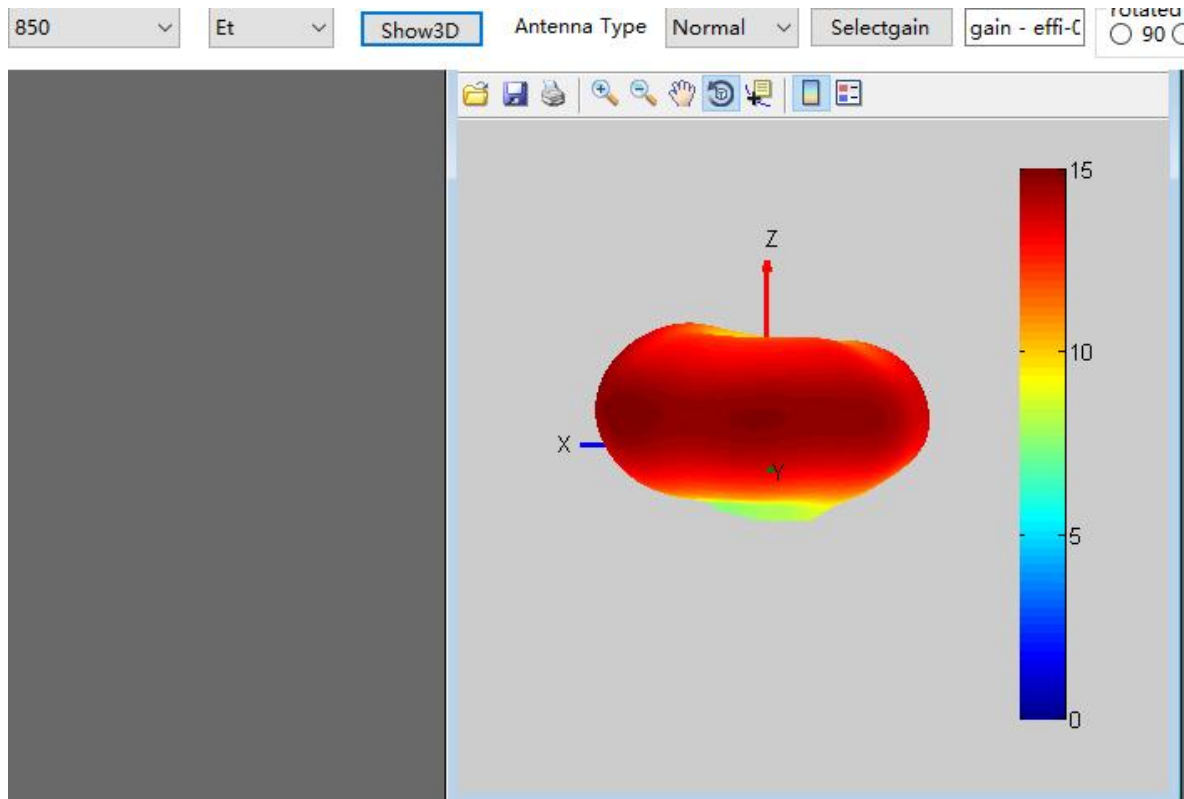
GSM850 WB5 LTE B5



GSM850 WB5 LTE B5

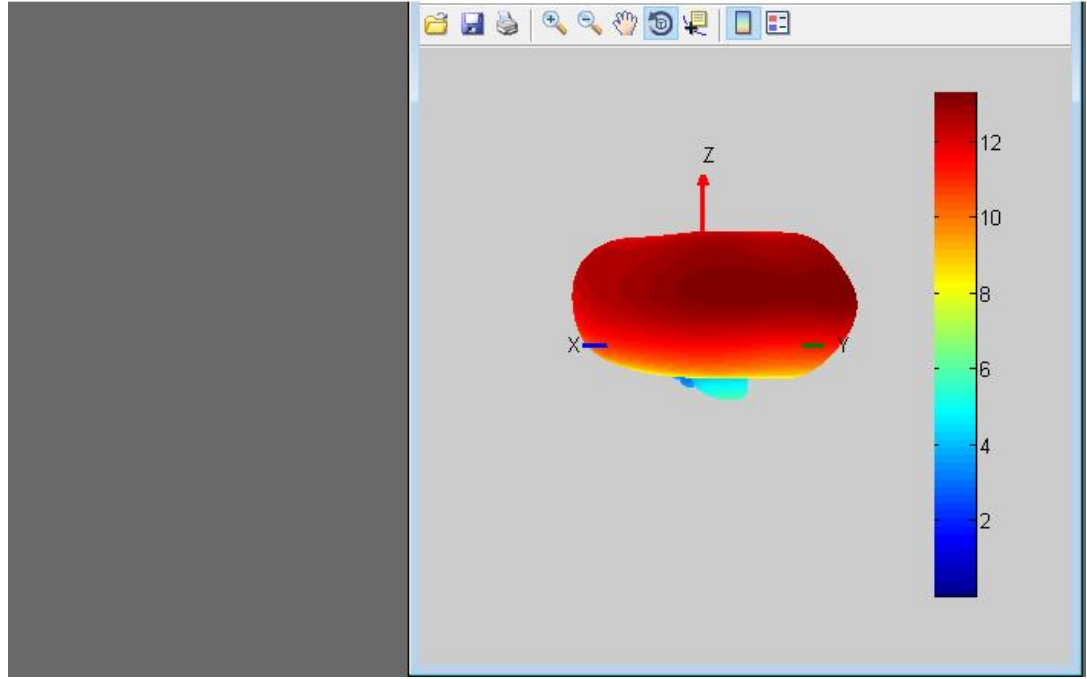


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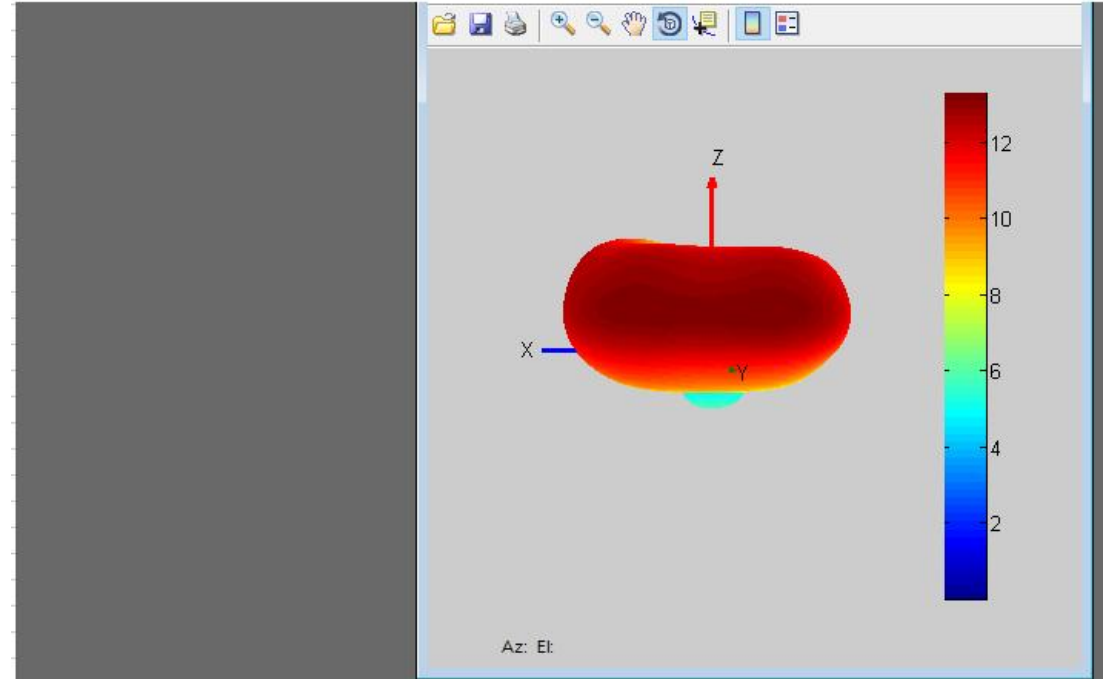


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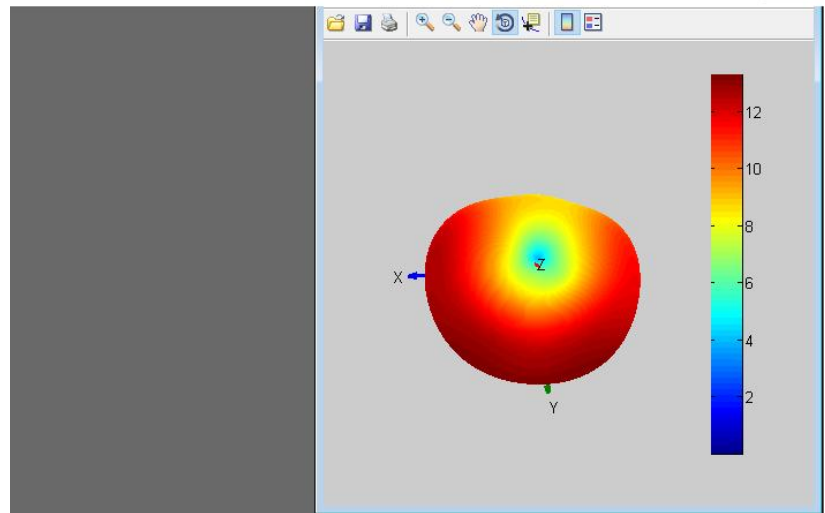
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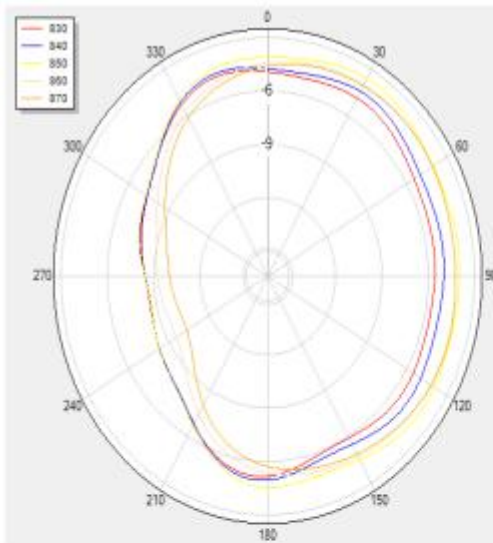
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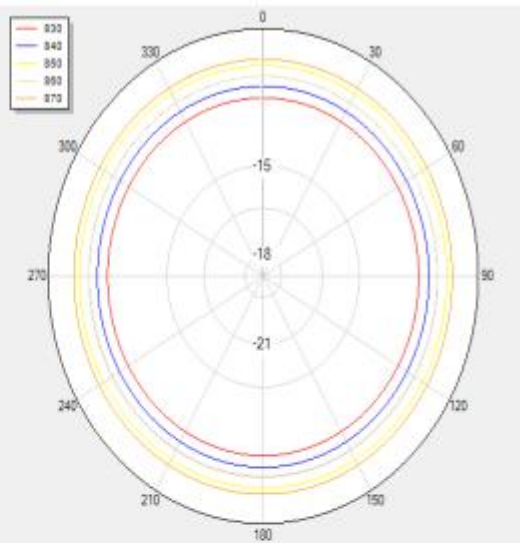
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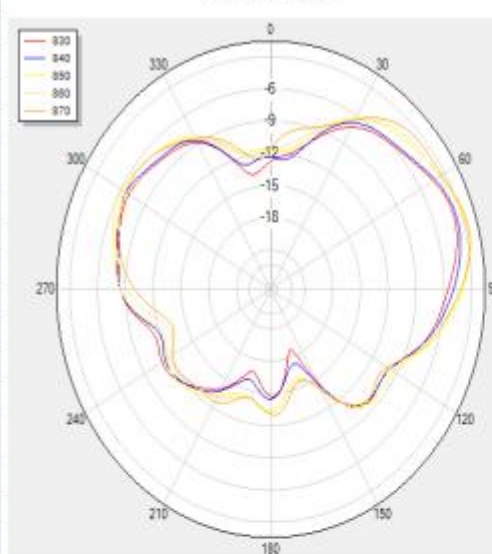
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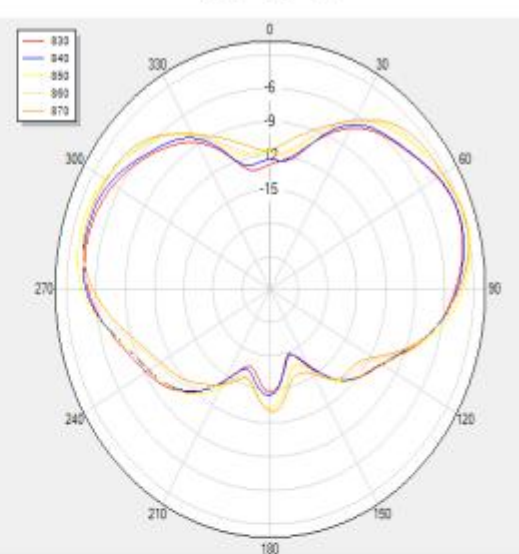
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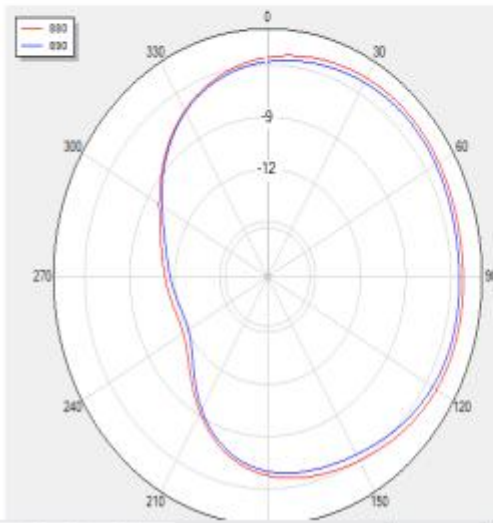
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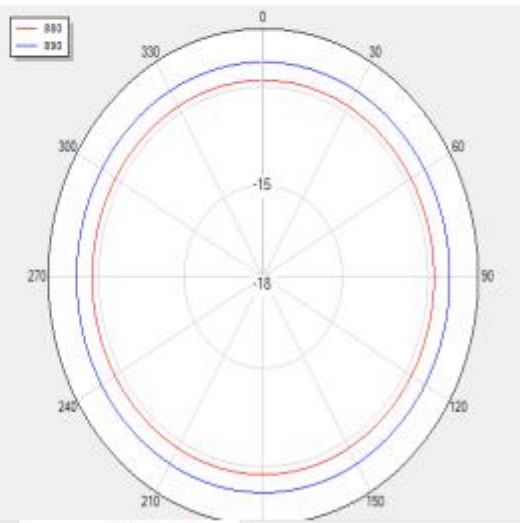
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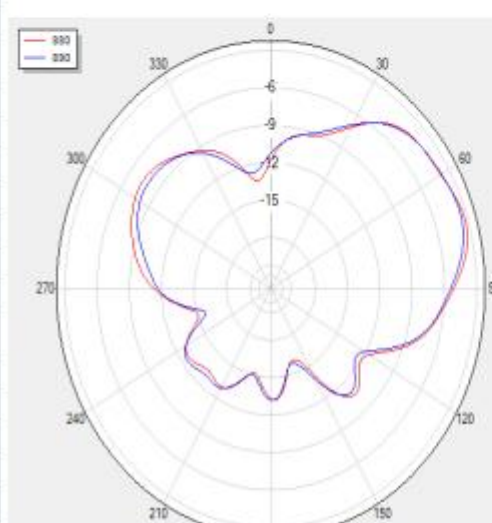
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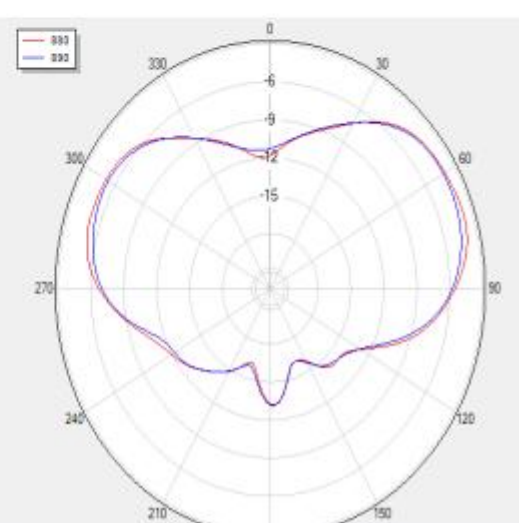
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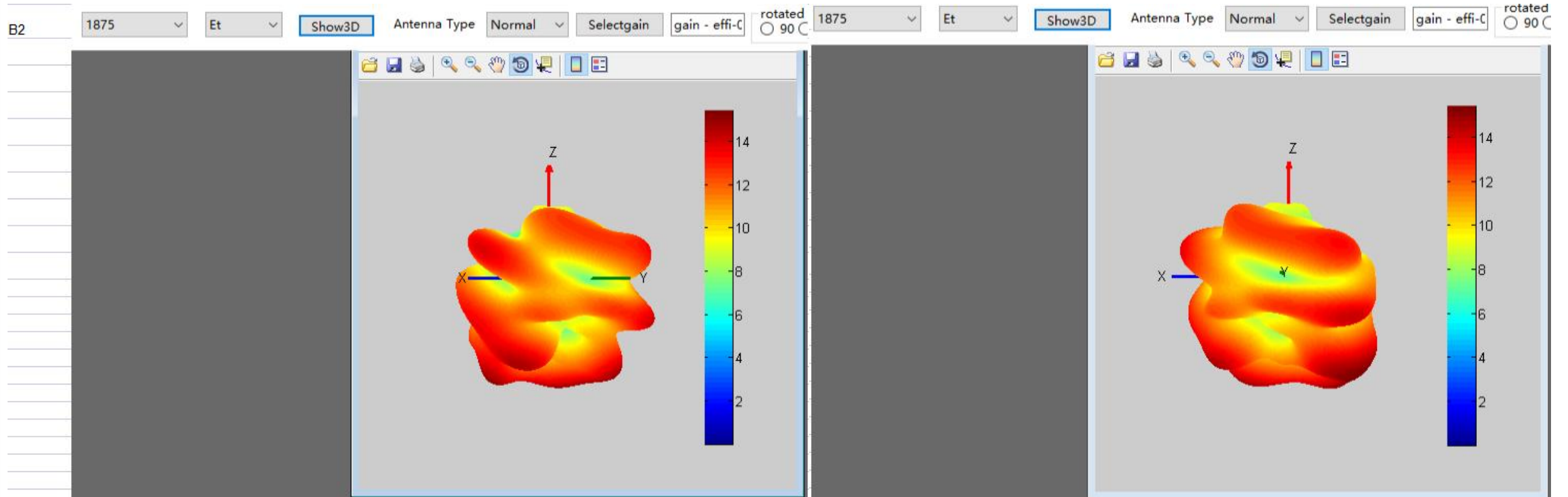
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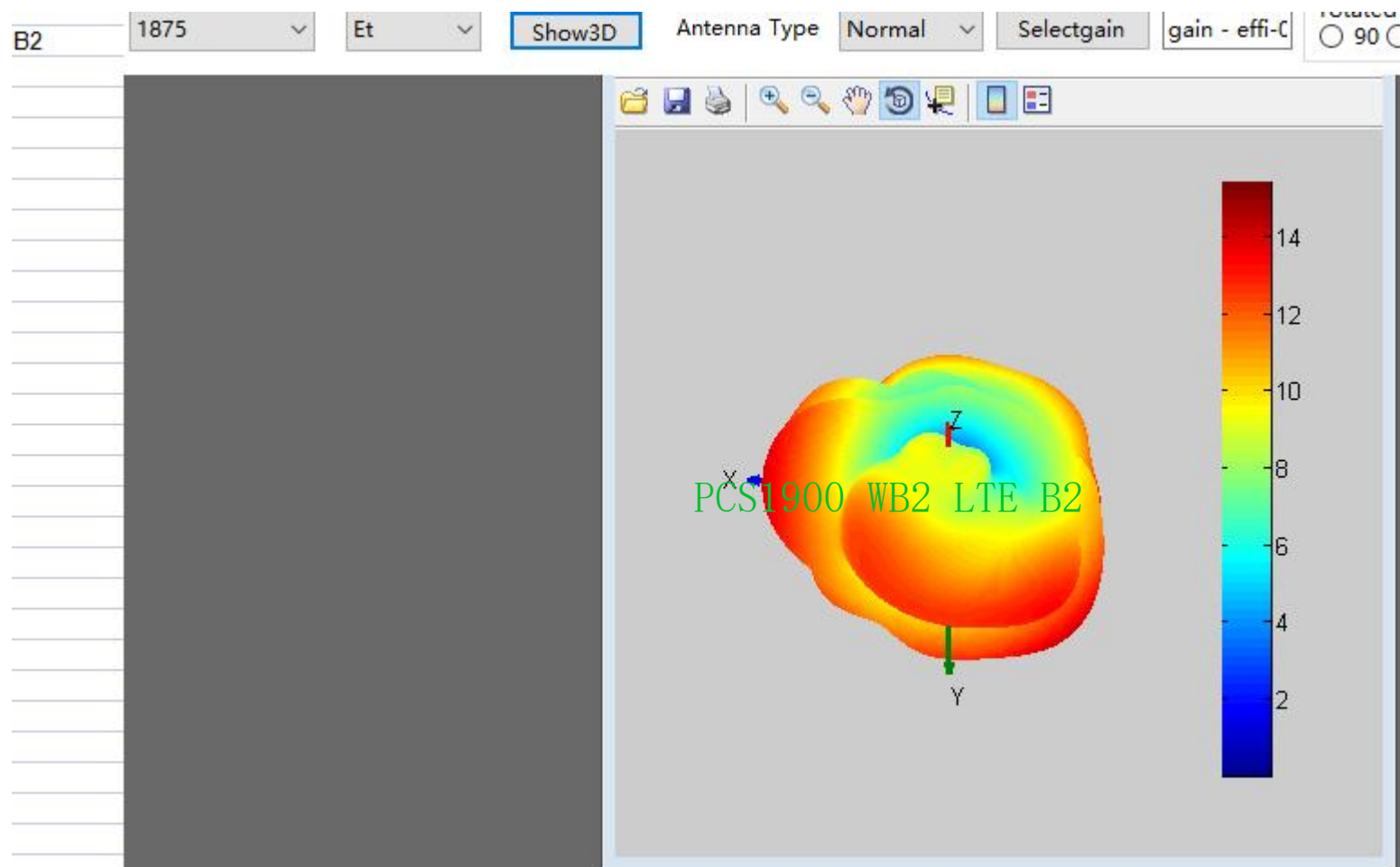
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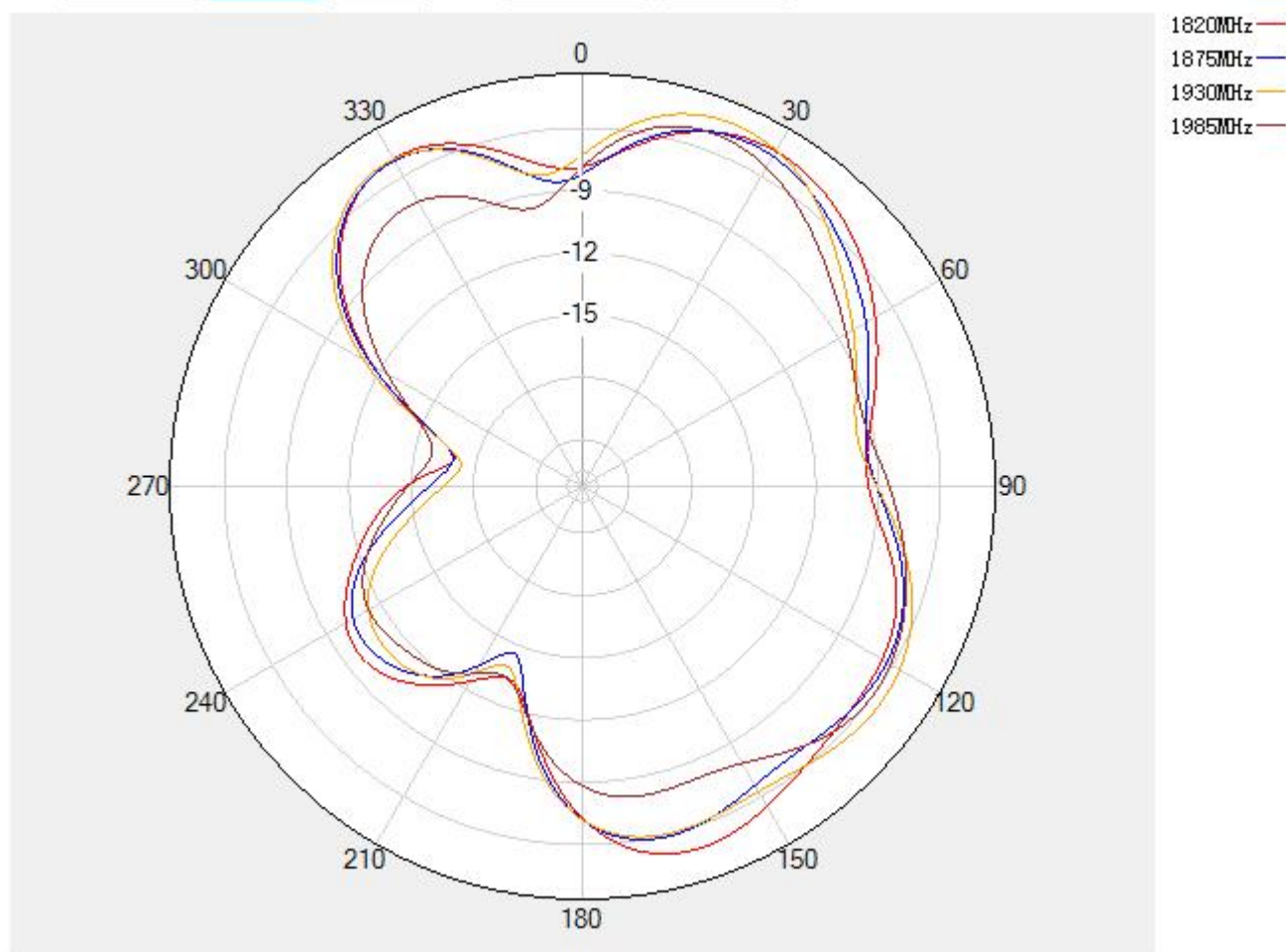
PCS1900 WB2 LTE B2



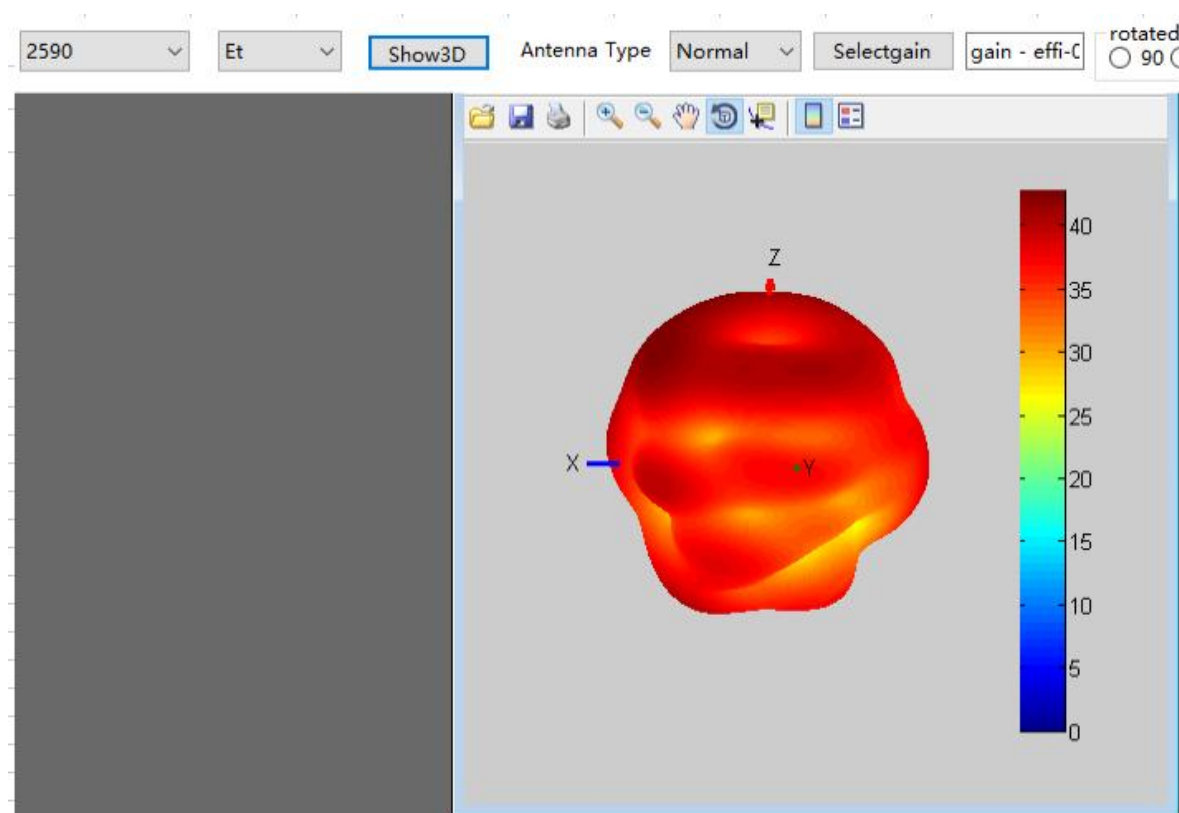
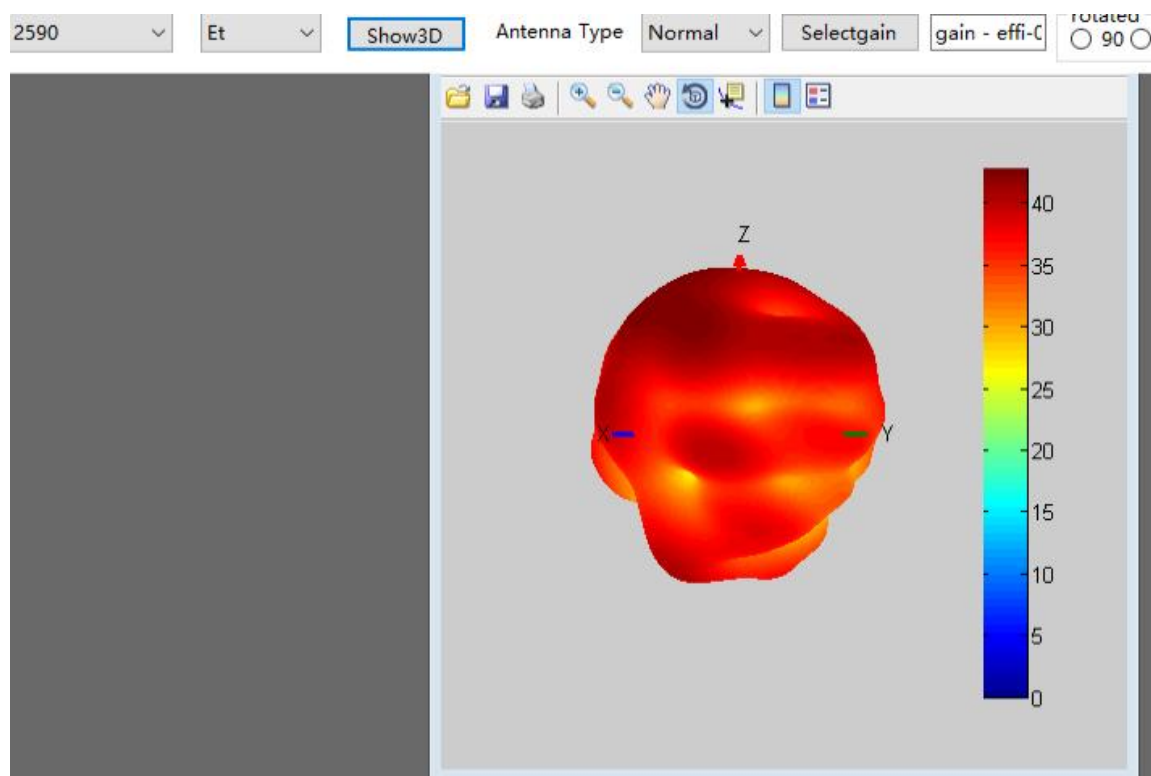
PCS1900 WB2 LTE B2

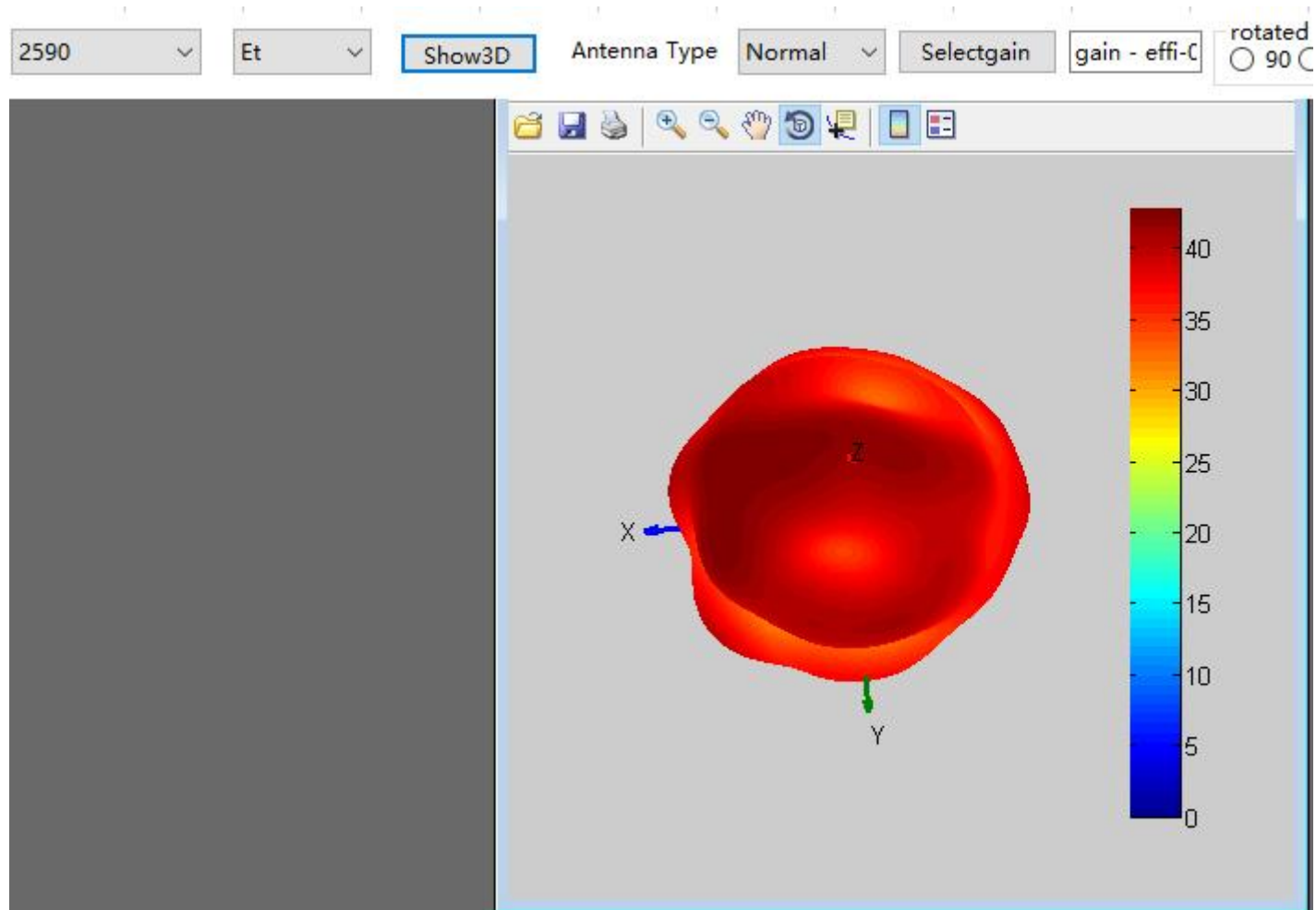


PCS1900 WB2 LTE B2

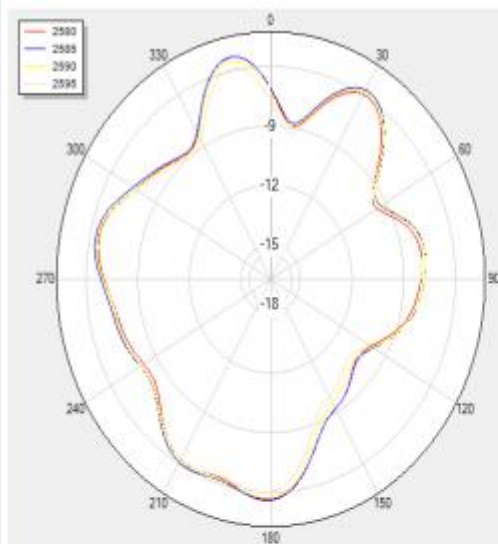


LTE B41

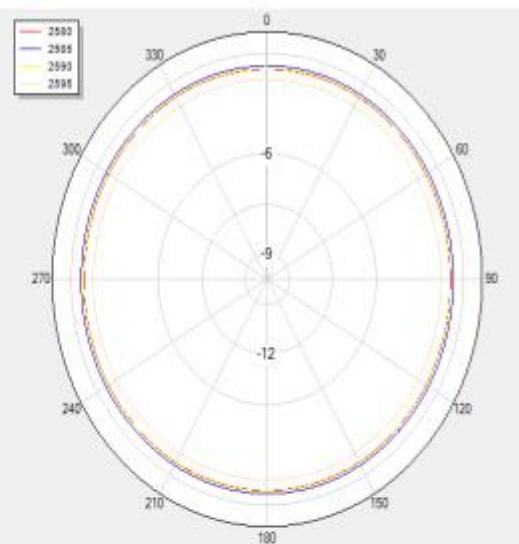




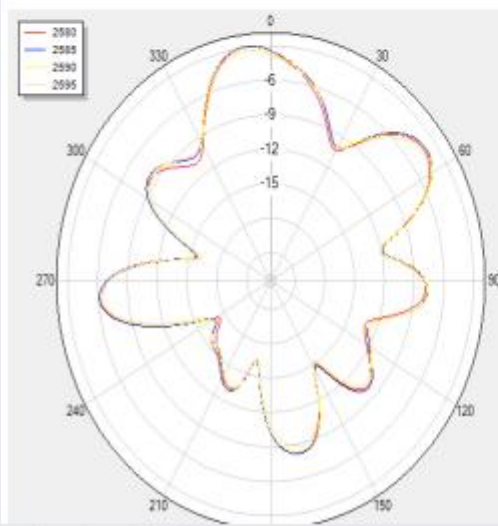
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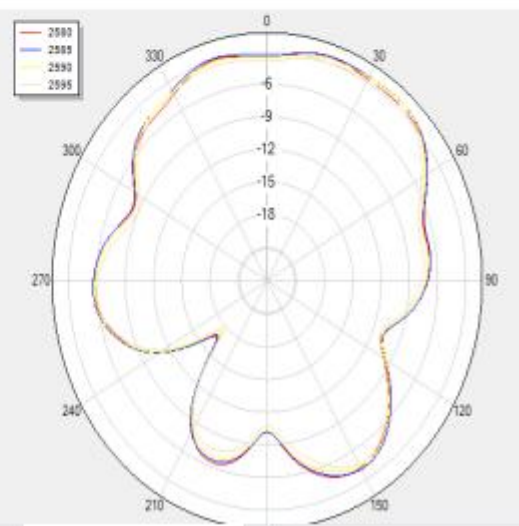
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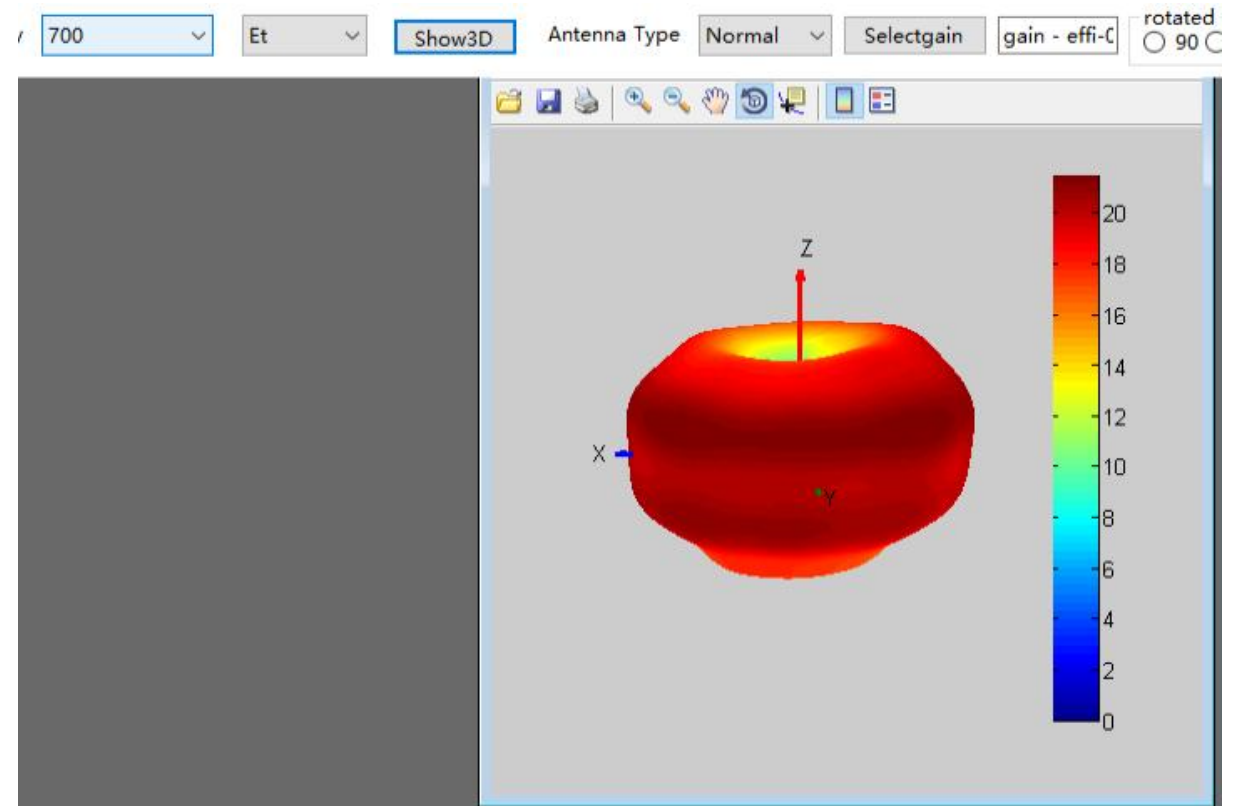
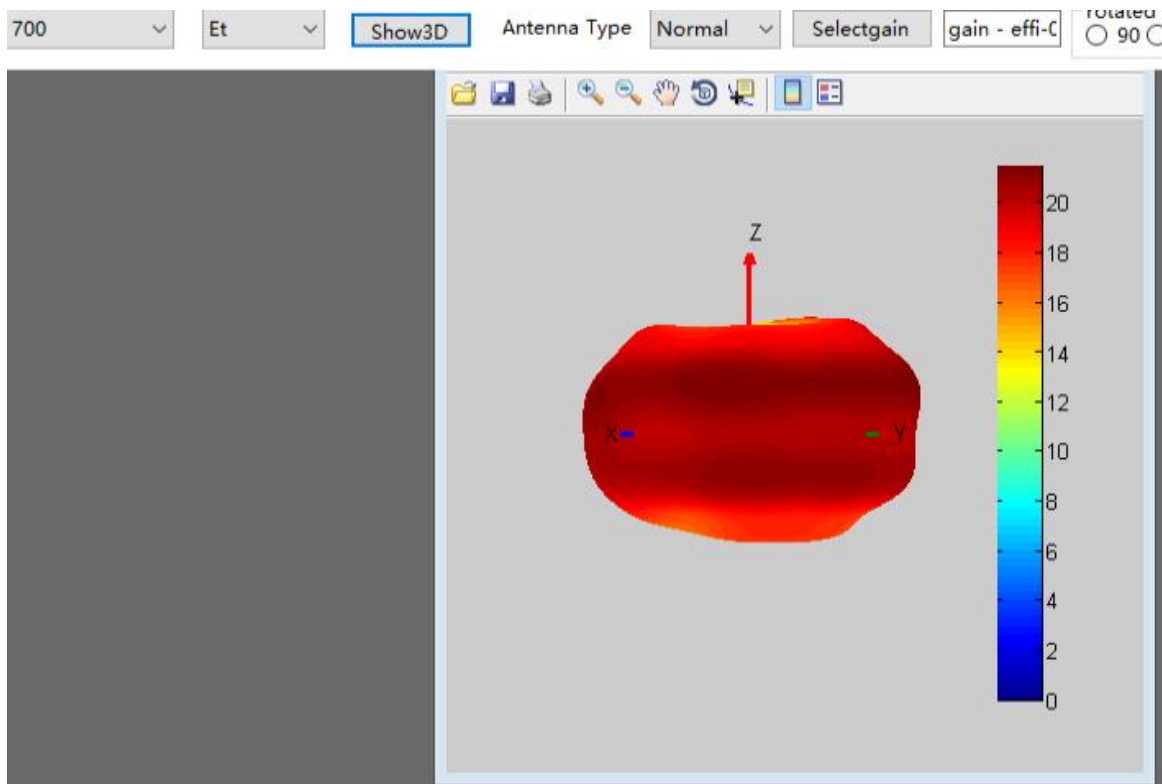
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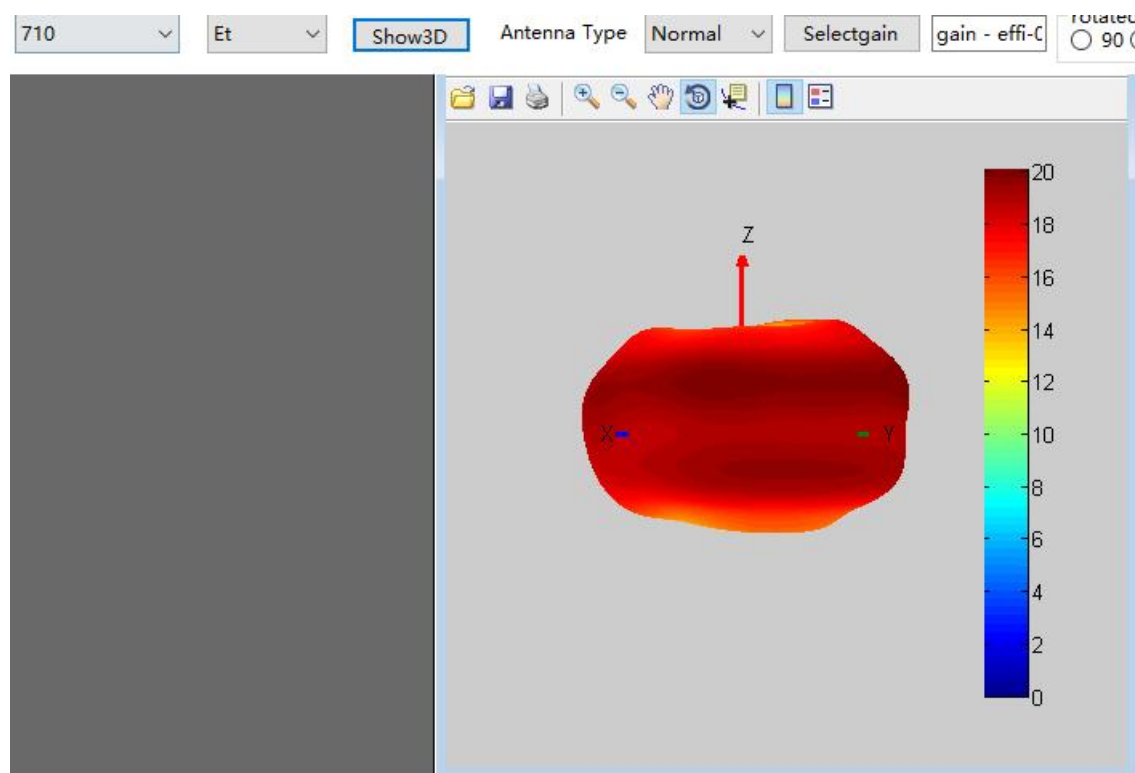
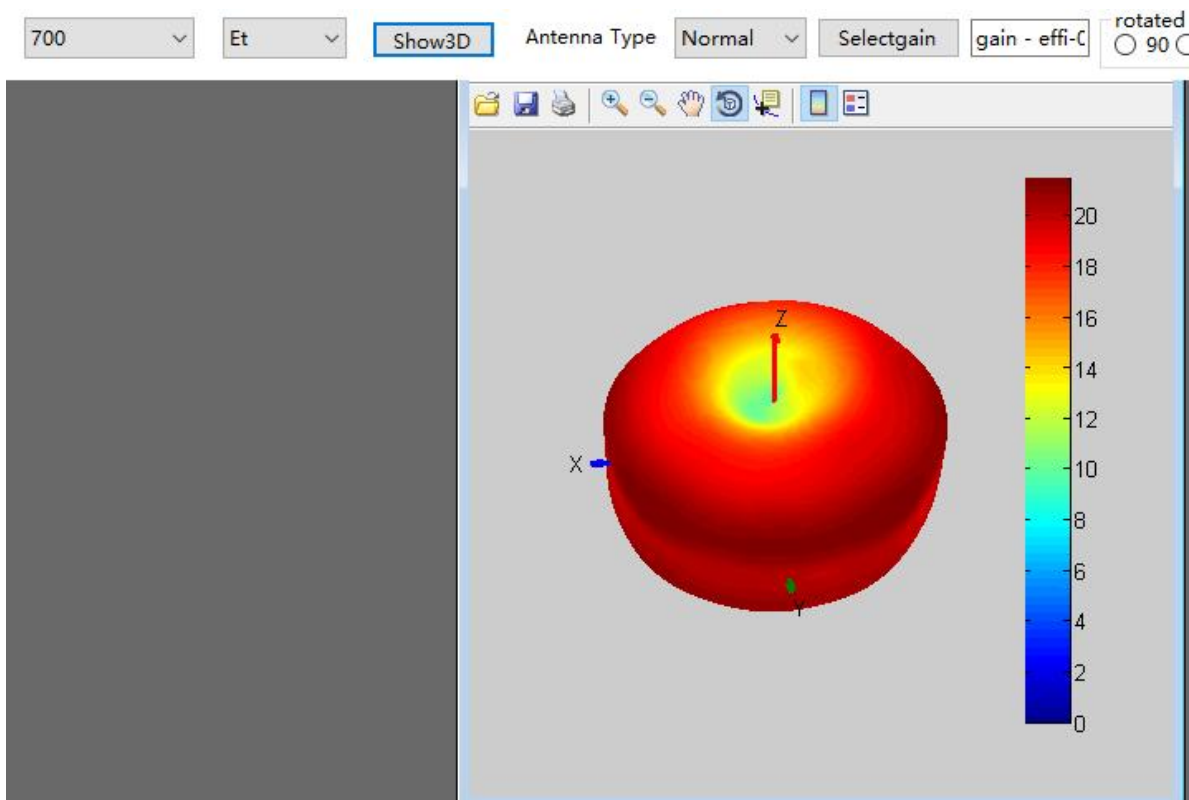
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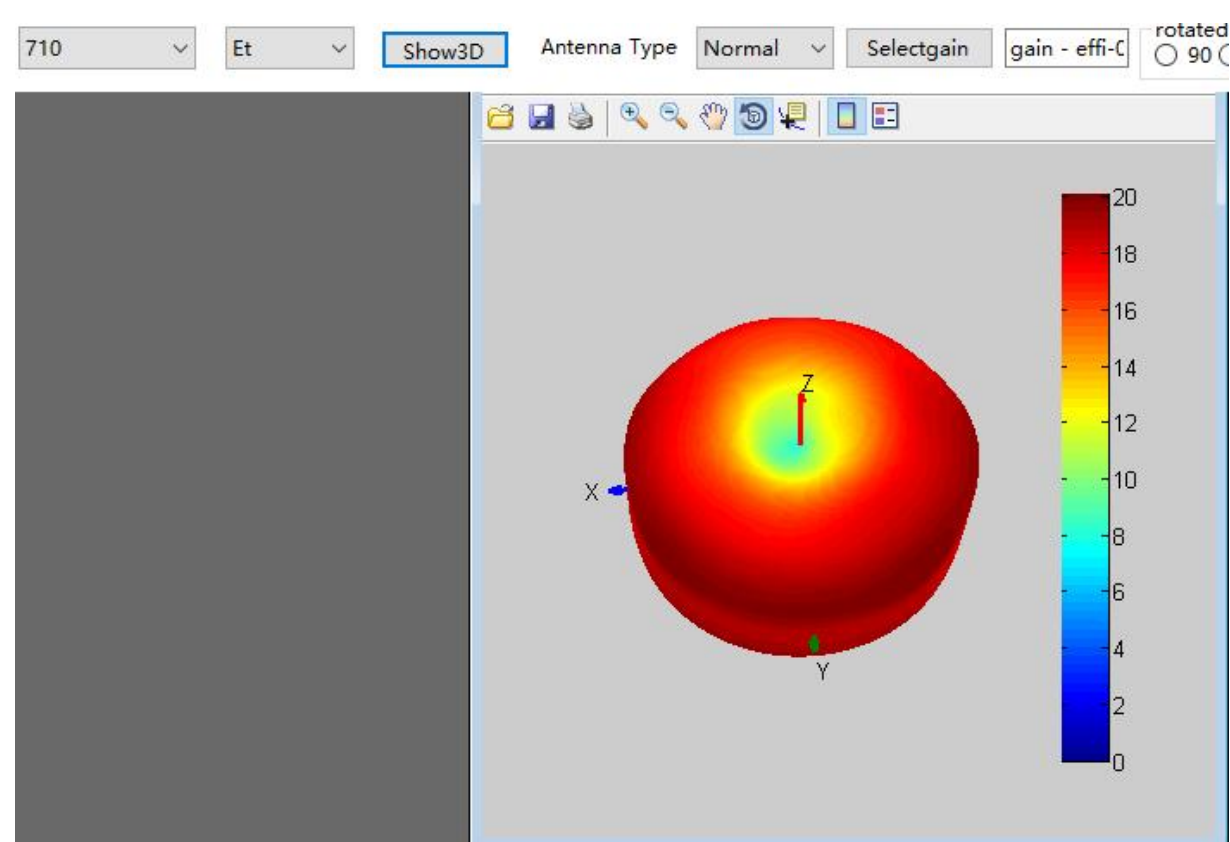
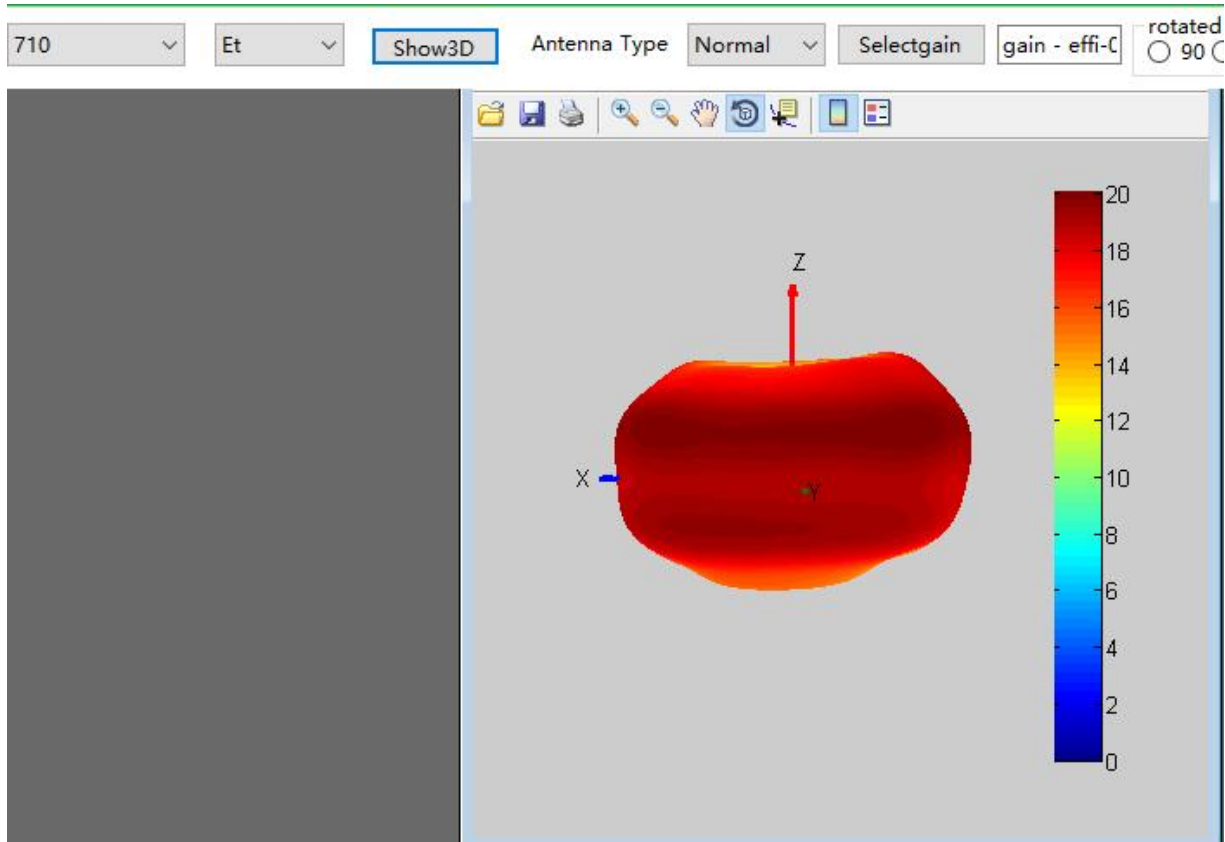
LTE B12



LTE B12

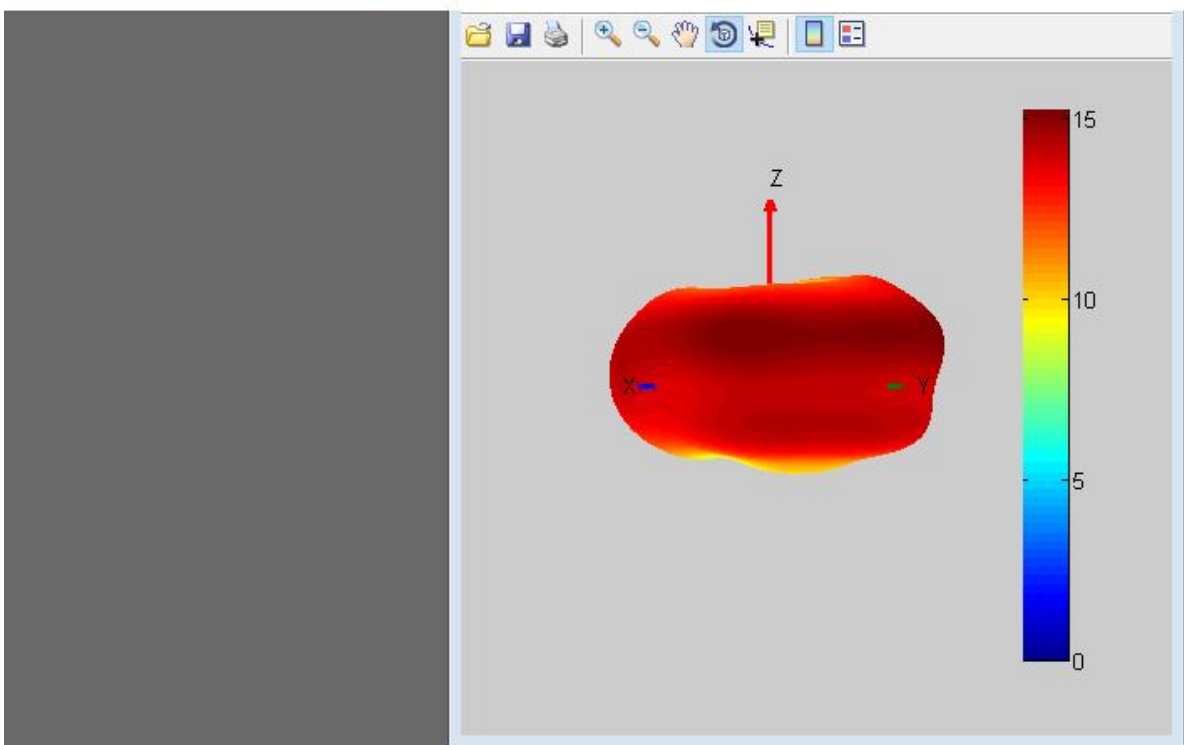


LTE B12

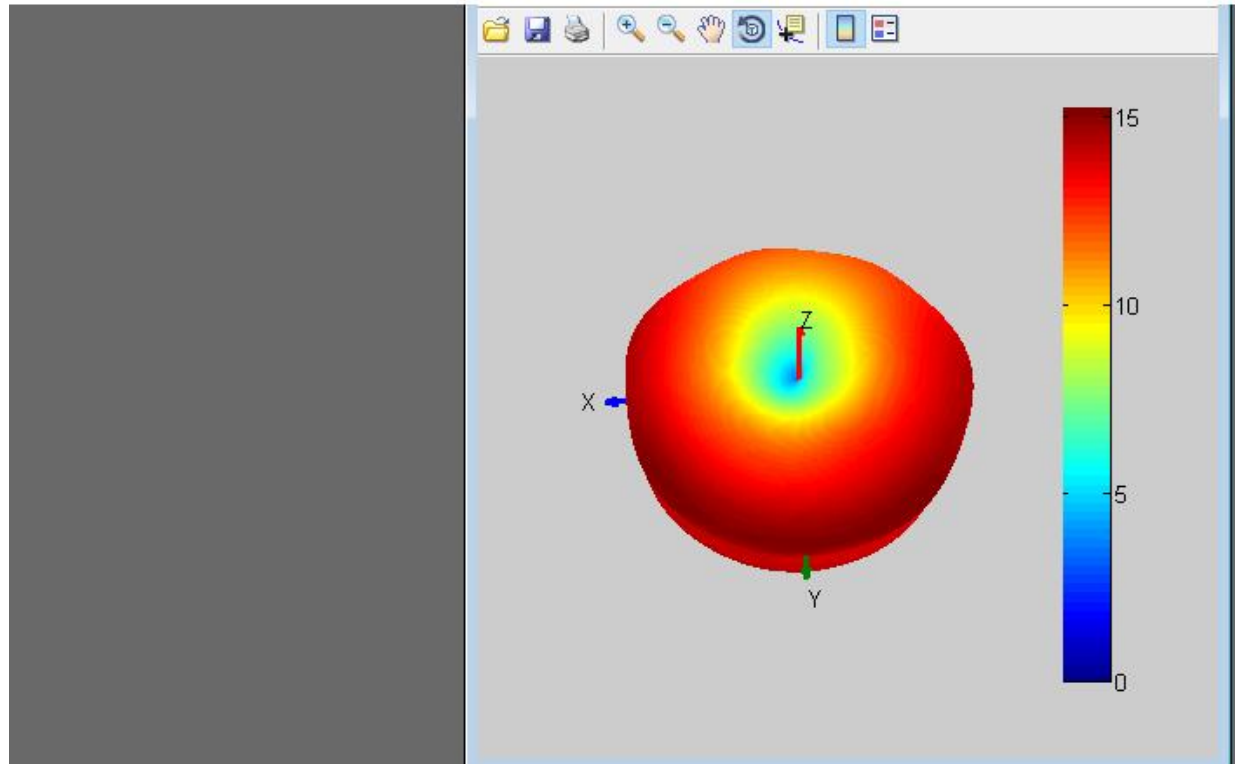


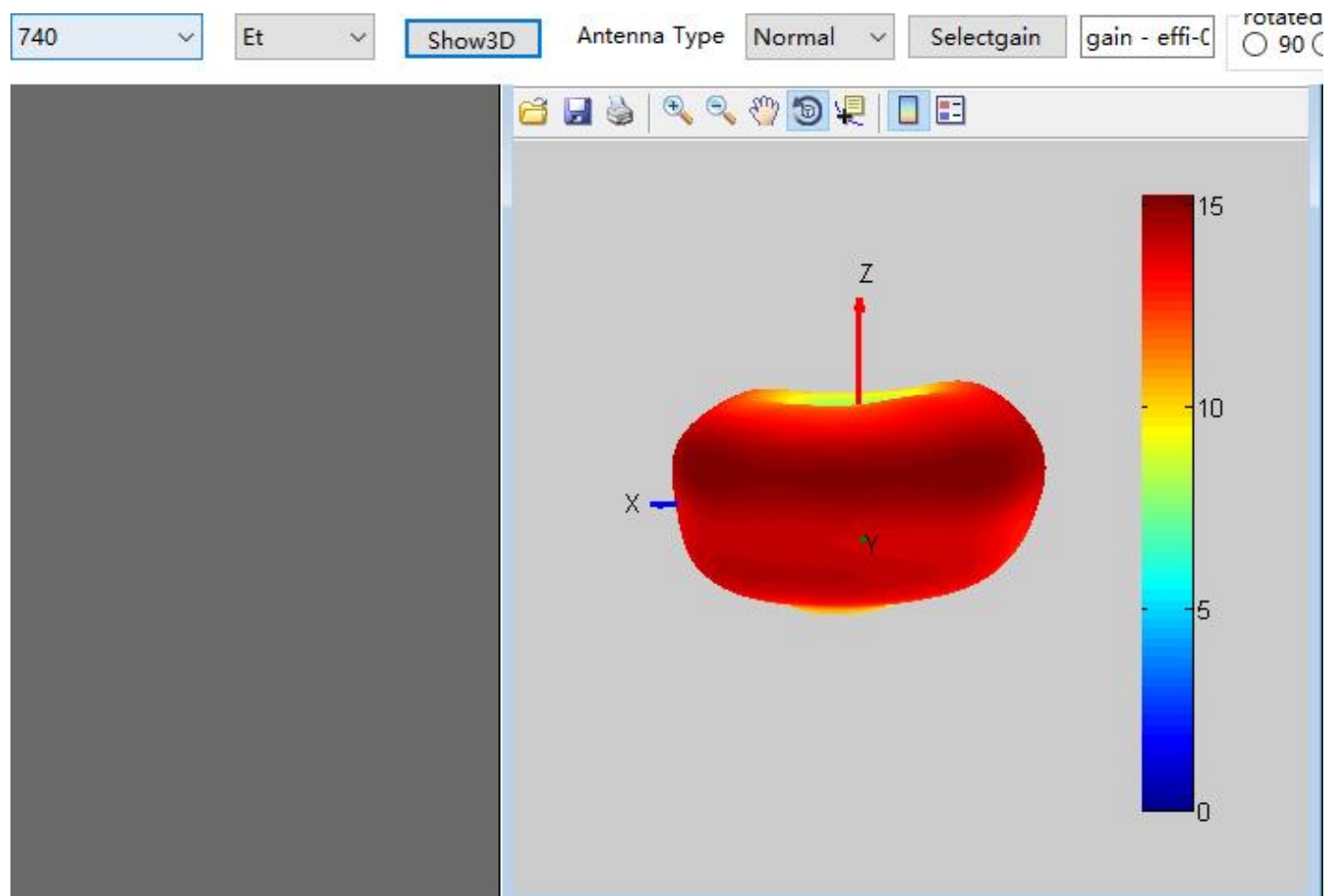
LTE B12

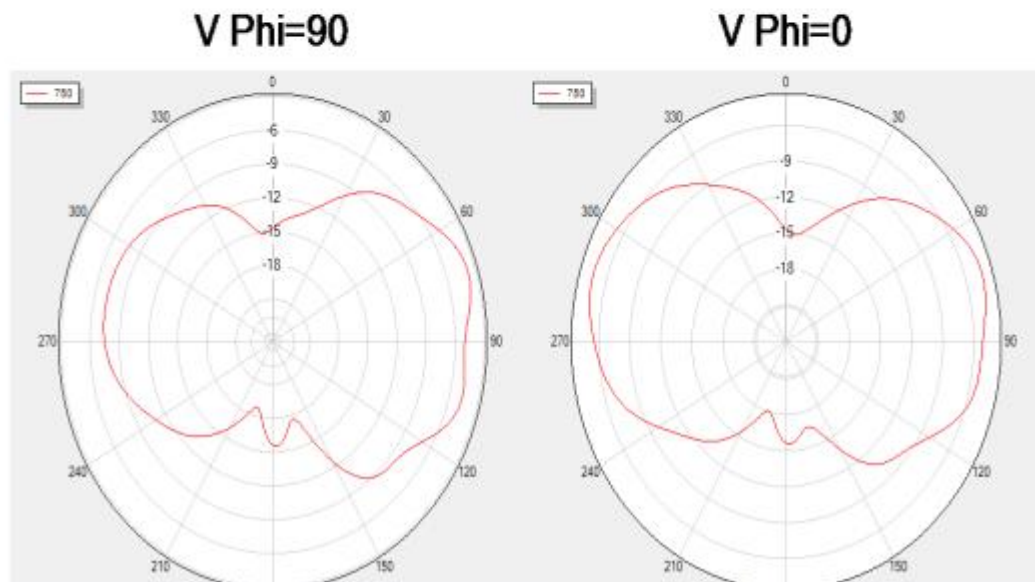
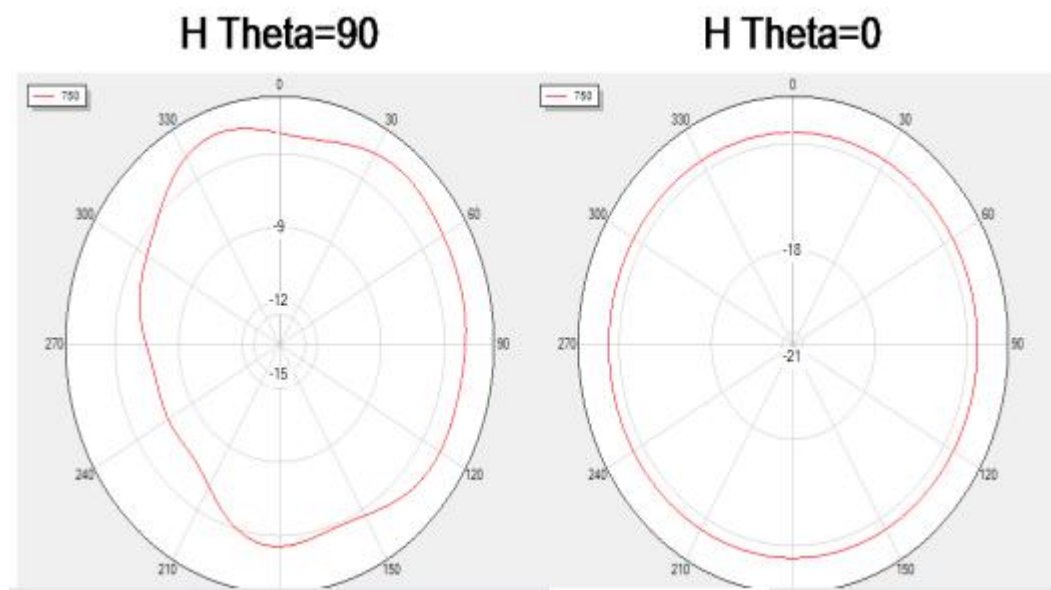
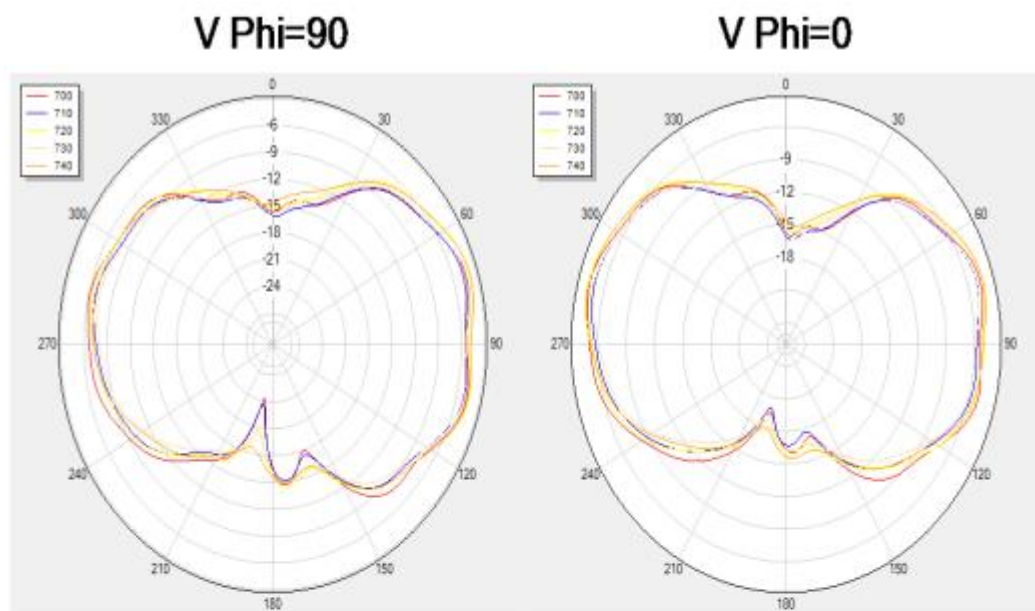
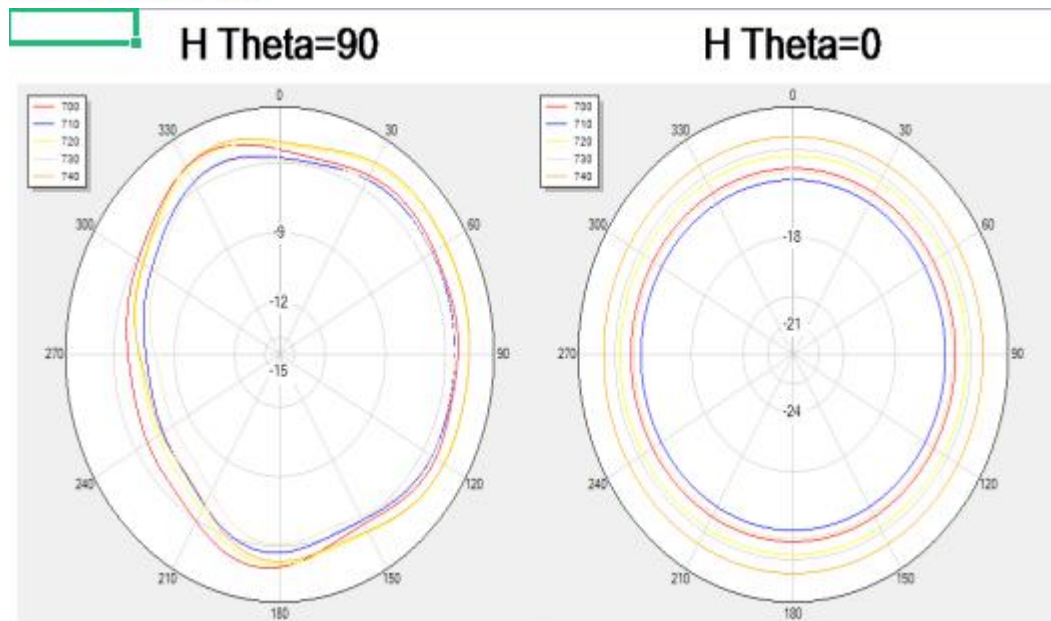
740 Et Show3D Antenna Type Normal Selectgain gain - effi-C rotated 90 C



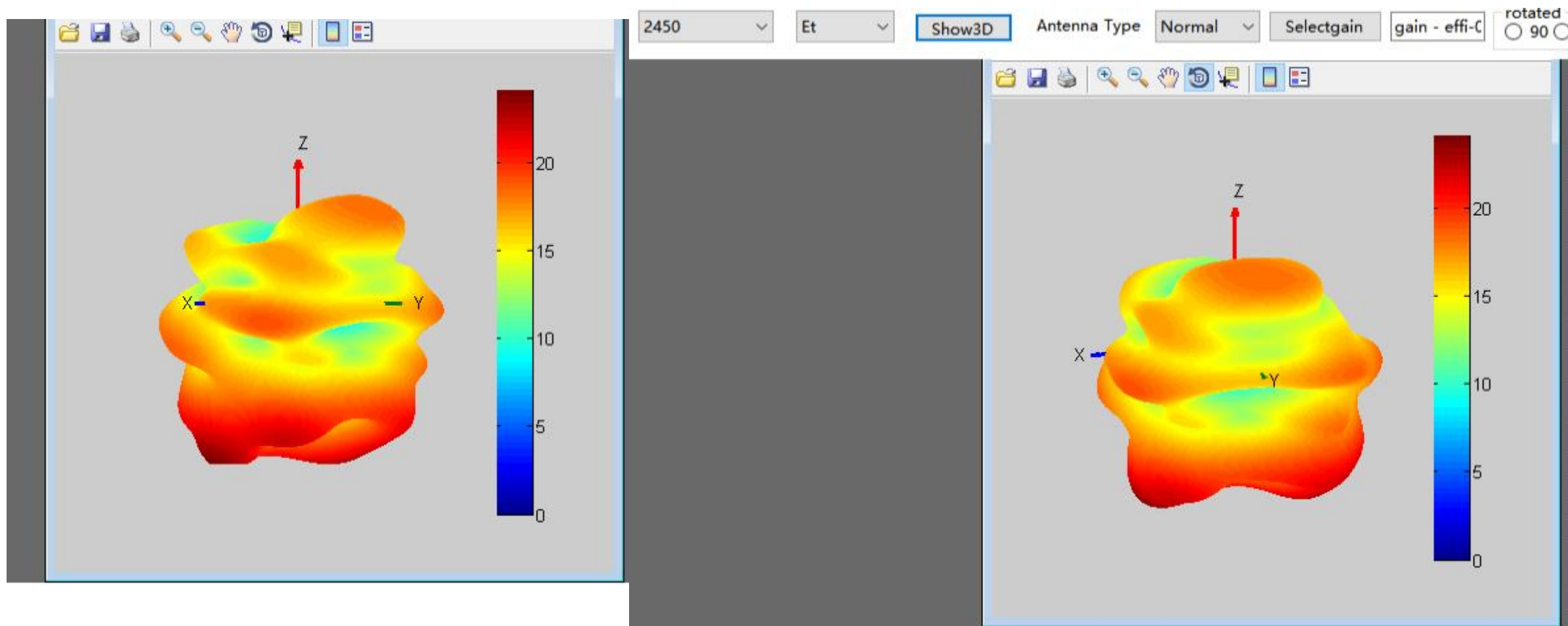
740 Et Show3D Antenna Type Normal Selectgain gain - effi-C rotated 90 C



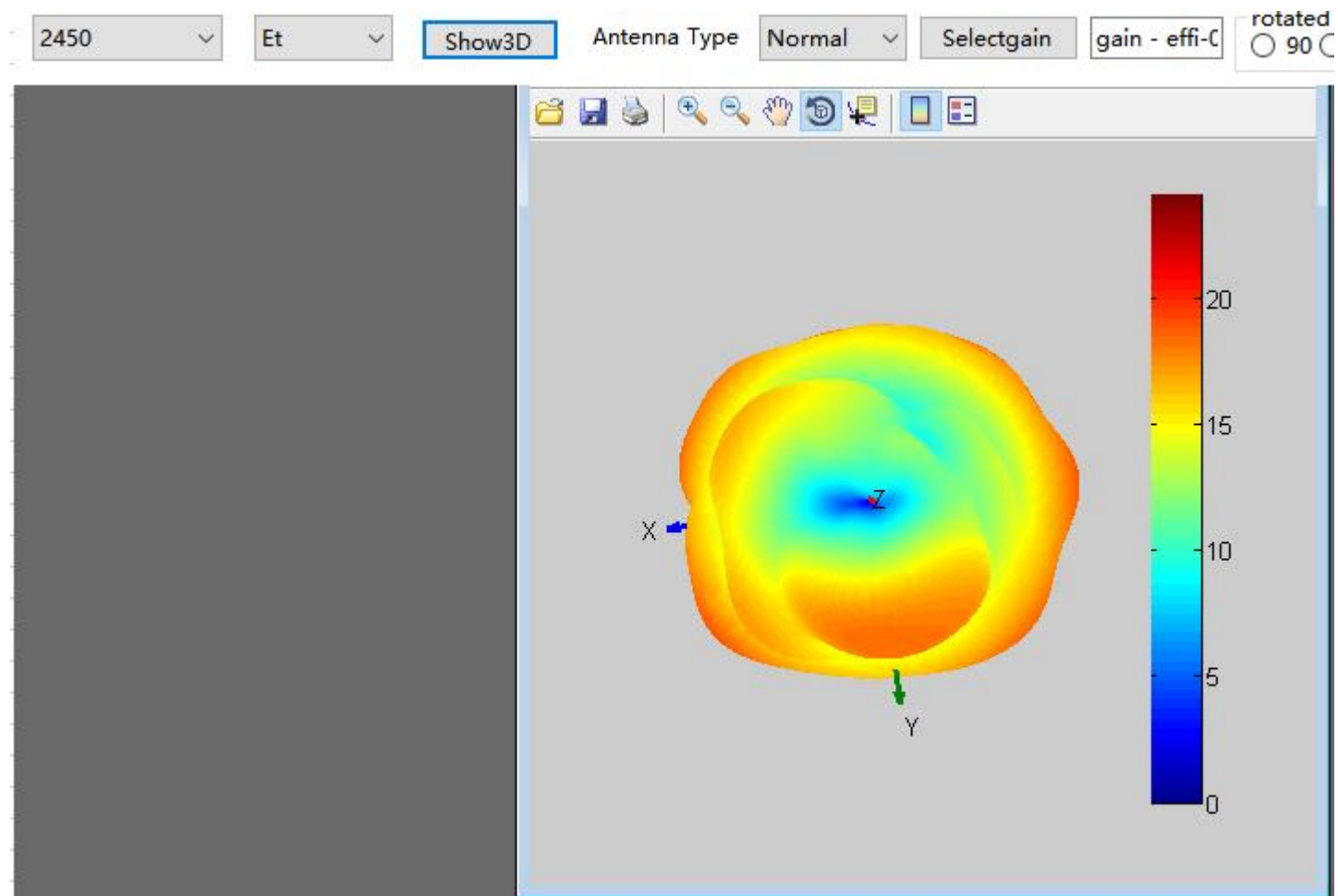




BT @ 2.4GWIFI

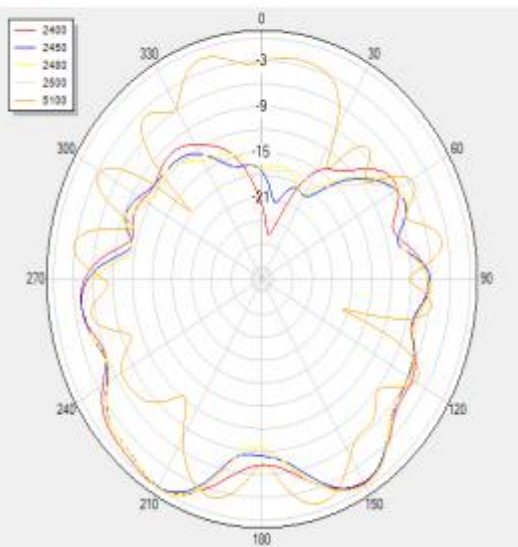
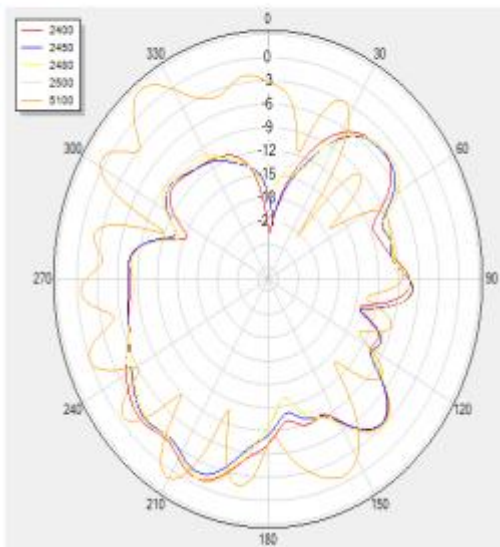


BT @ 2.4GWIFI



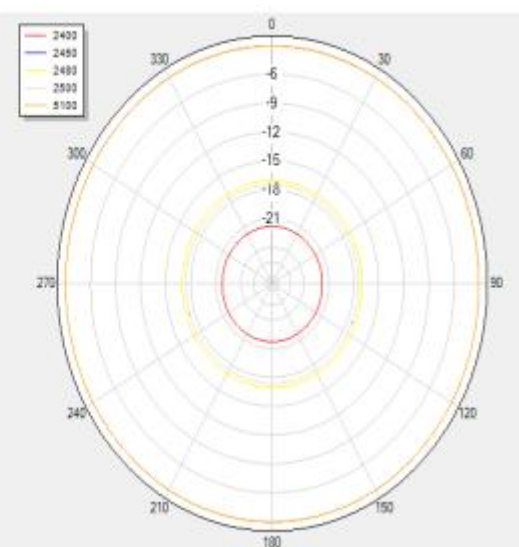
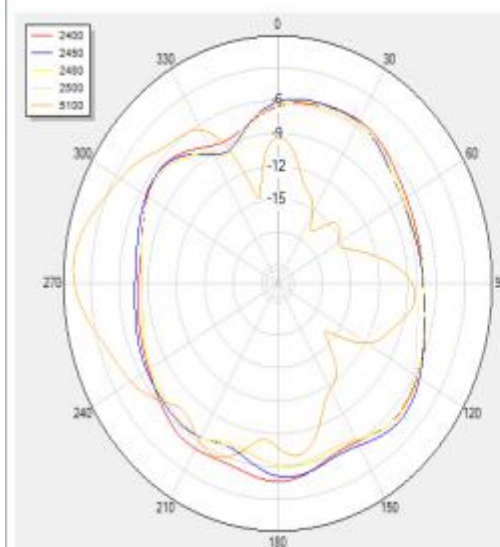
V Phi=90

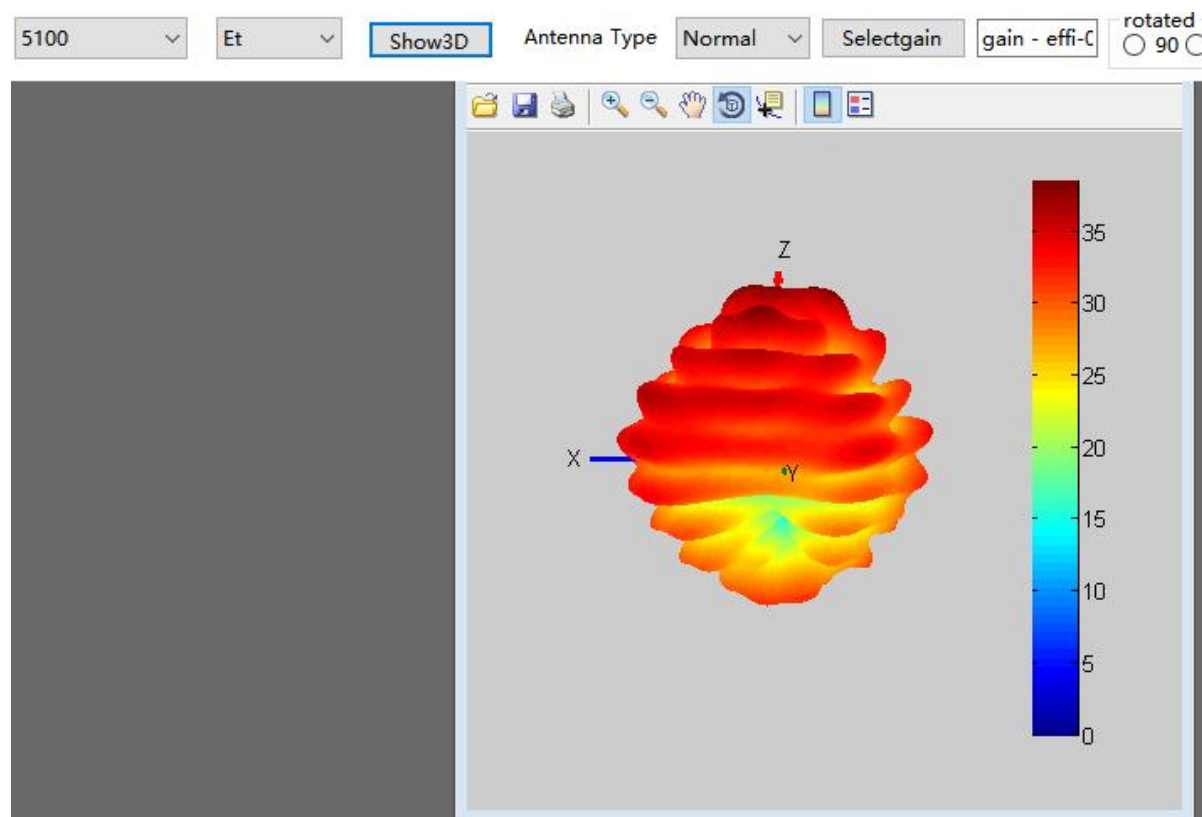
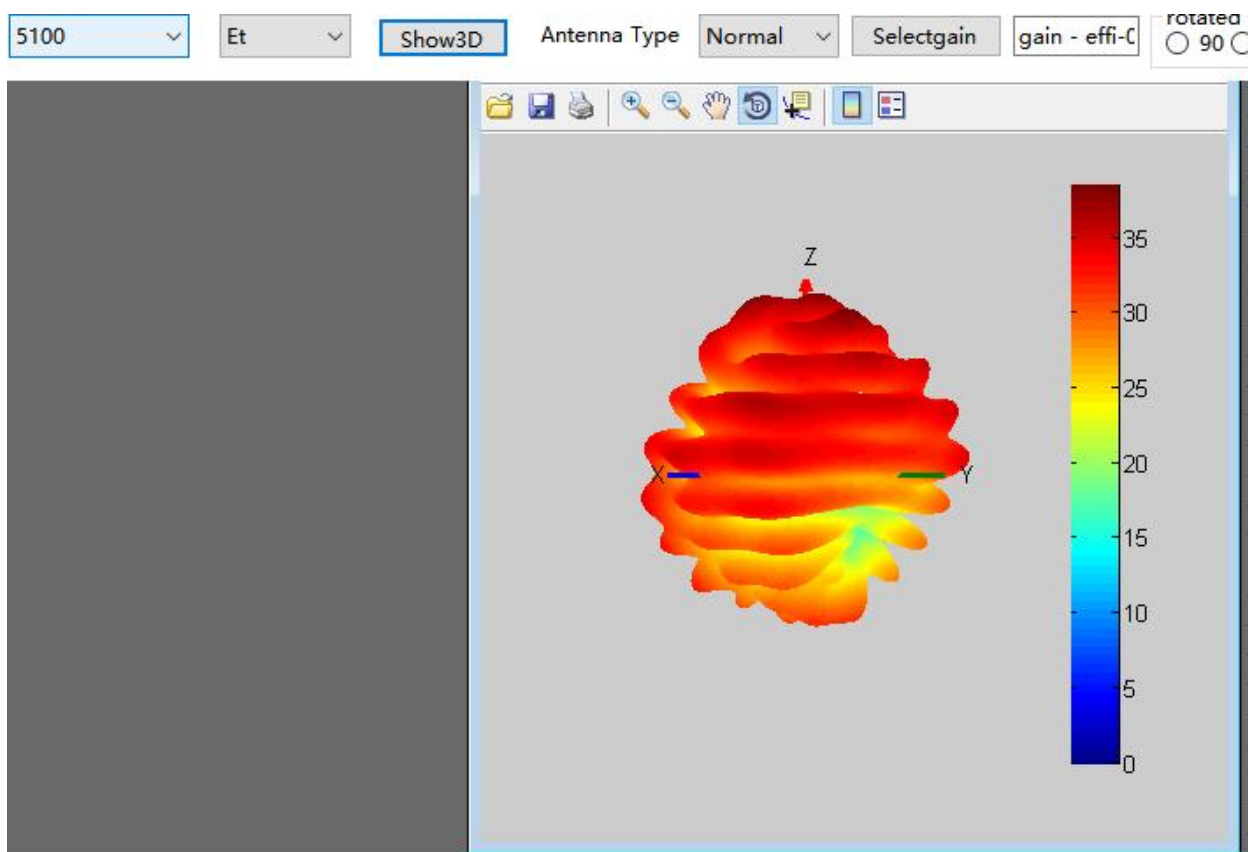
V Phi=0

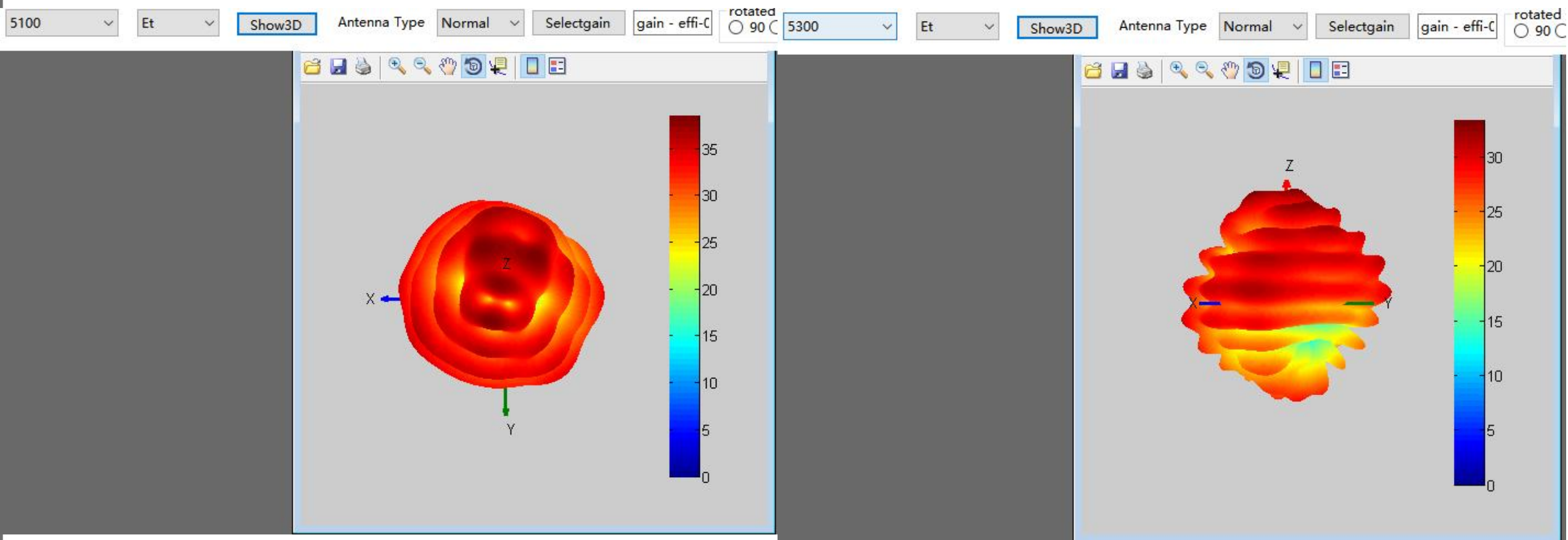


H Theta=90

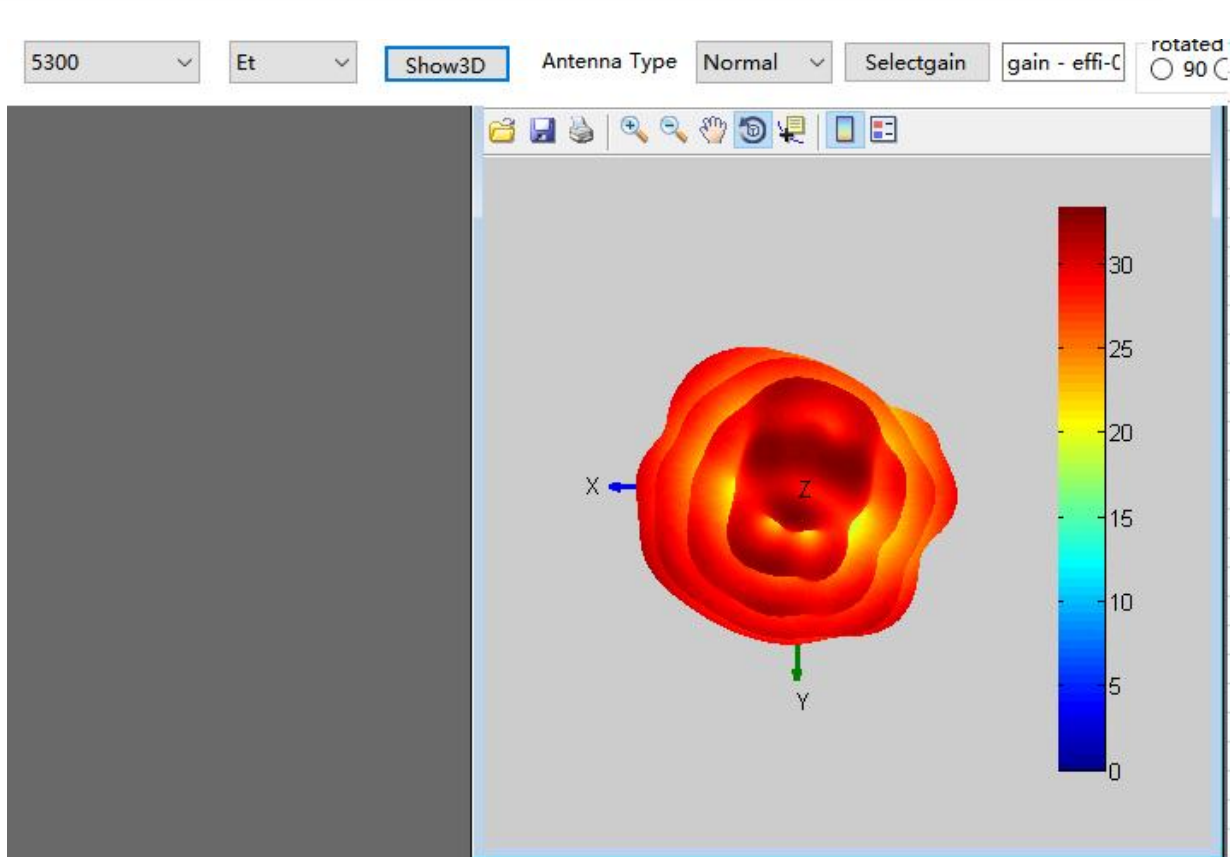
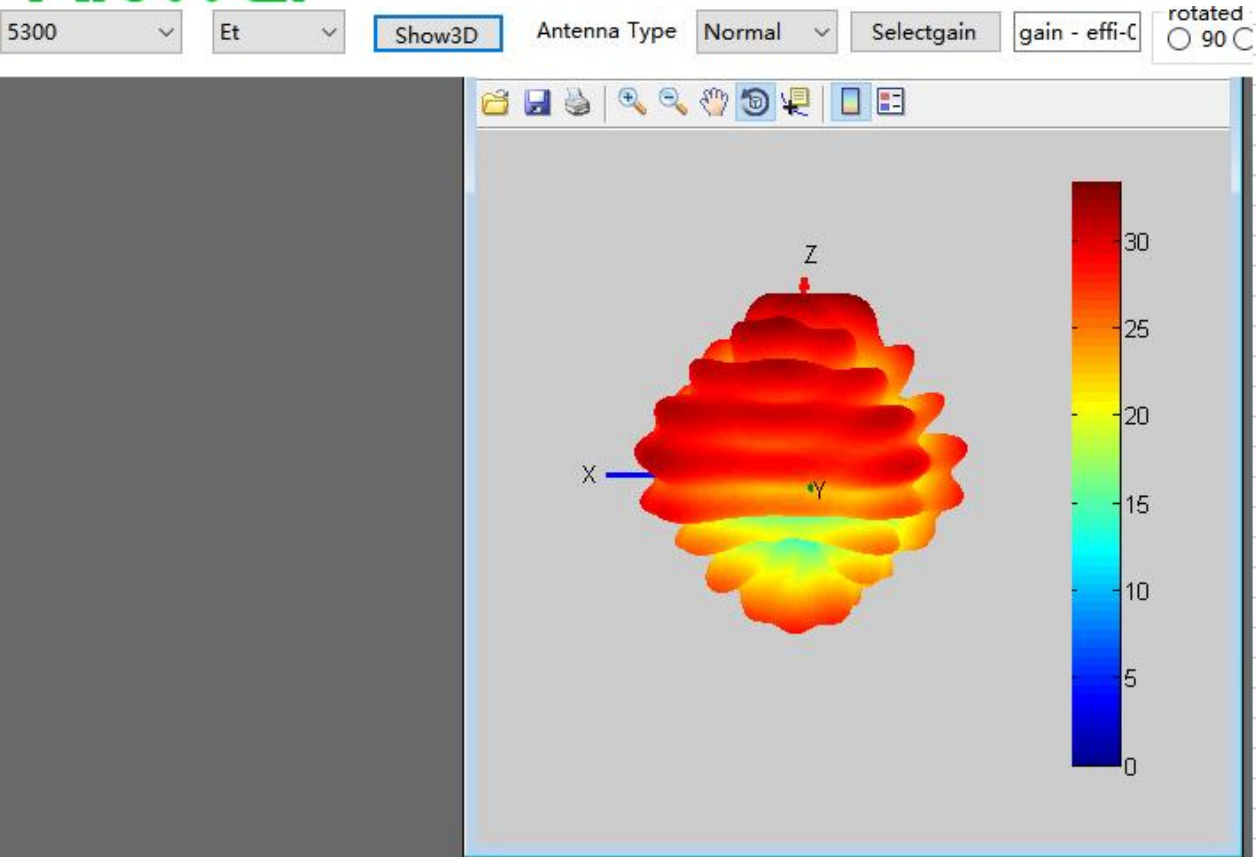
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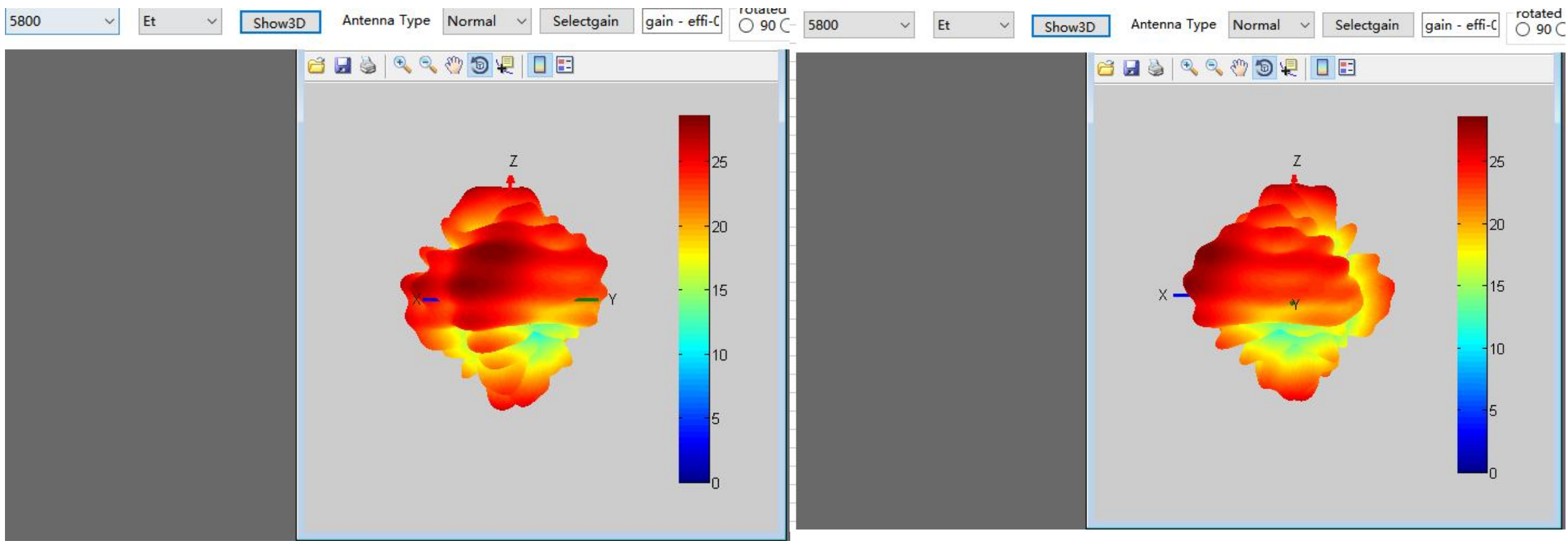


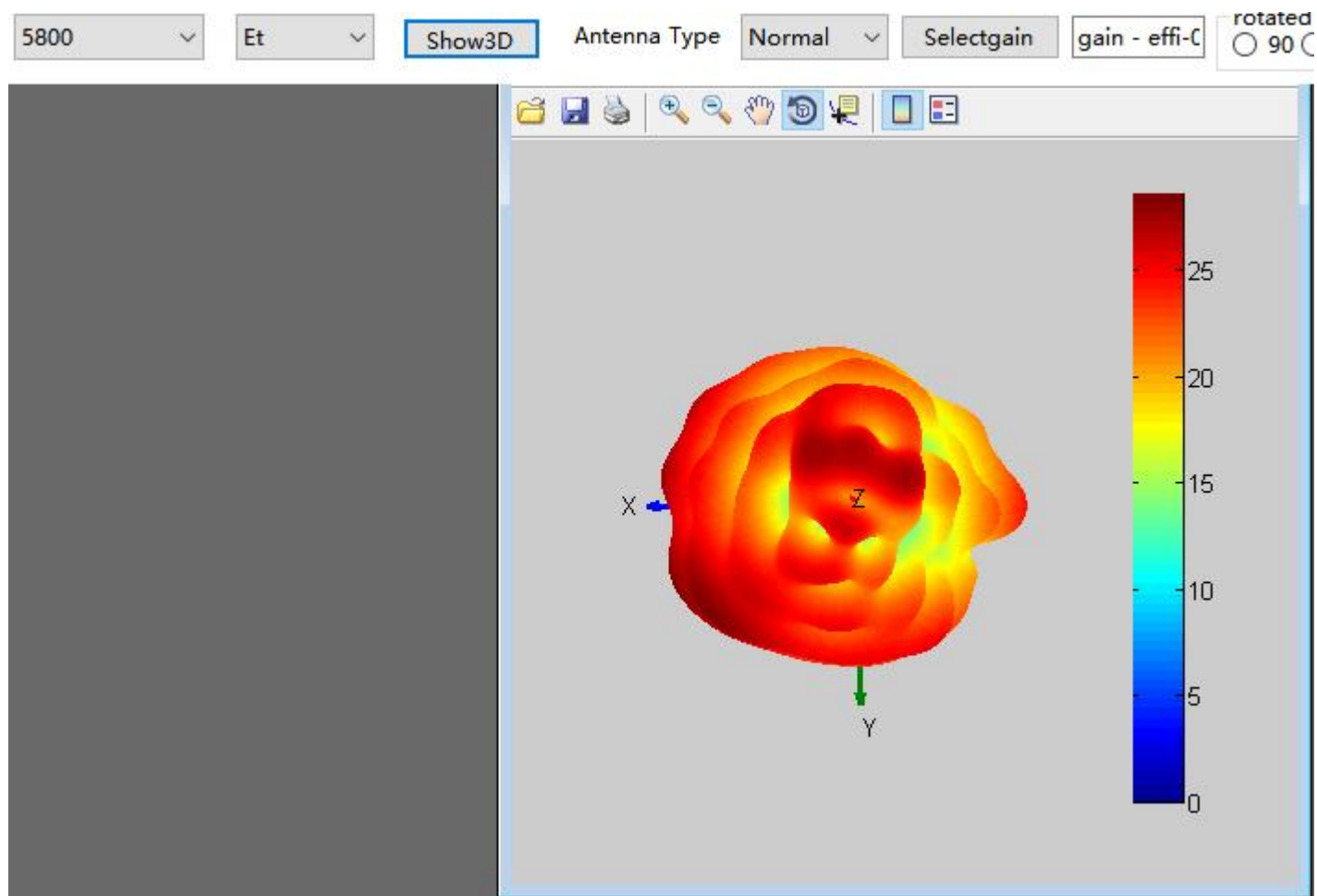


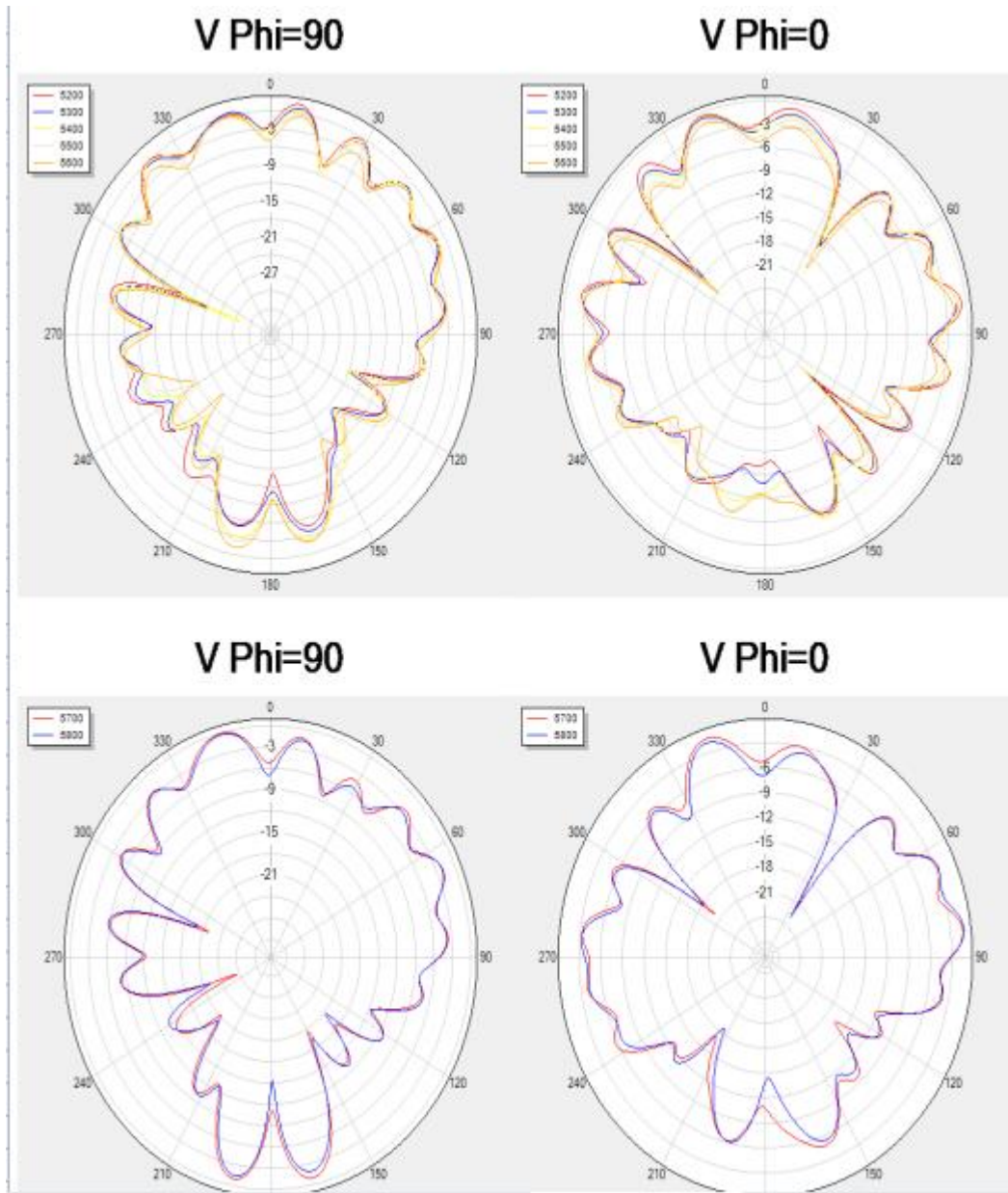


5GWIFI











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



5G wifi

2.4g wifi+BT
+GPS

分集发射频段: GSM1800/1900 W1/2/4 BC1
LTE1/2/3/4/34/39

主集发射频段: GSM900 W8 FDD 7/8 TDD38/40/41
FDD B12/17/28A/B
GSM850 W5/6 FDD5/20 BC0