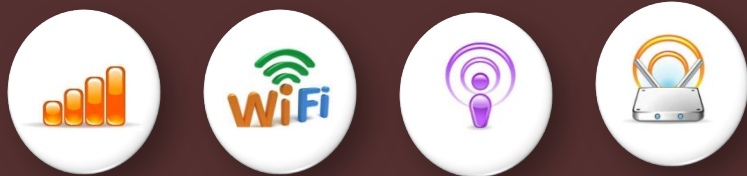




深圳麒鑫通达科技有限公司



天线测试数据报告

Antenna test data report

客户：联永科技

项目：S545

频段：G4+W2/W4/W5+LTE-FDD-
B2/B4/B5/B12/B17/B66/B71

天线：马斐 (134 1821 8312)

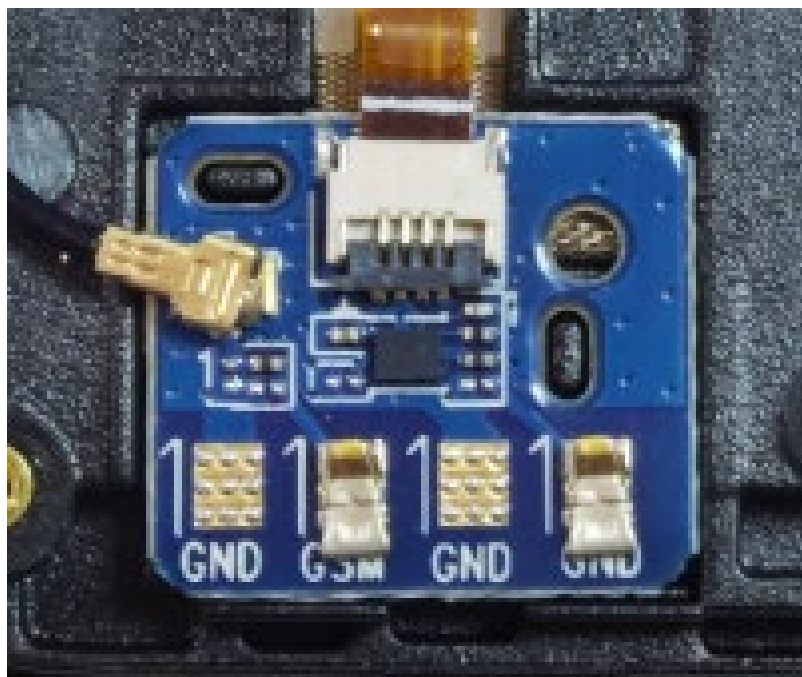
日期：2023年03月23日

	测试项目	设备
1. S参数	1. 回损(RL) 2. 驻波比(VSWR)	网络分析仪: Agilent 5071B
2. 耦合功率测试	1. 发射功率 (power) 2. 接收灵敏度(level)	综测仪: CMW500/8960 暗 室: 6*4*3微波暗室



版本	日期	调试概述
	2023-03-16	带B71频段机器测试。
	2023-03-23	更新软件后测试。

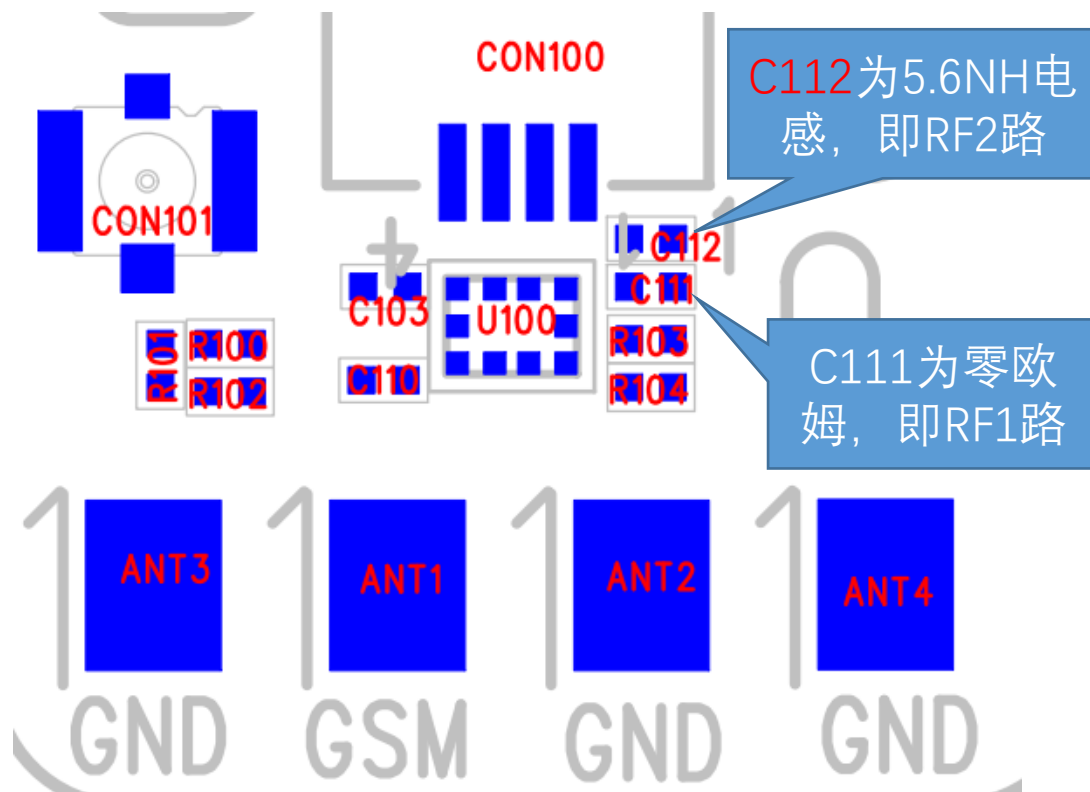




开关逻辑:

RF1路: GSM850/900/1800/1900+W2/4/5+LTE-FDD-B2/B4/B5/B66 (零欧姆)

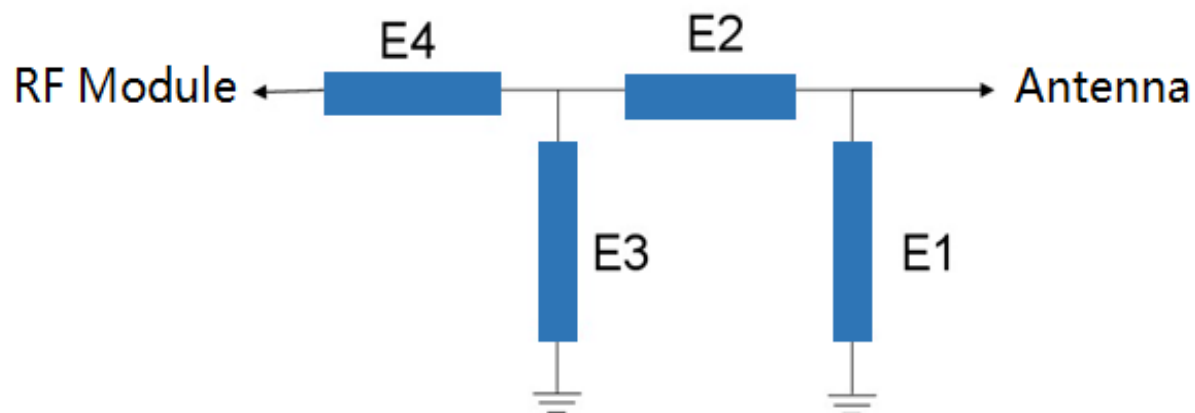
RF2路: LTE-FDD-B12/B17/B71 (5.6NH)



调谐电路

RF1: 主馈角保持不变。调谐馈角与地短接状态 (C111 为零欧姆)。该通路除了 B12/B17/B71 以外其他频段正常使用。

RF2: 主馈角上保持不变，调谐馈脚处用 5.6NH 电感调谐 B12/B17/B71 用 (C112)。该通路 B12/B17/B71 正常使用。



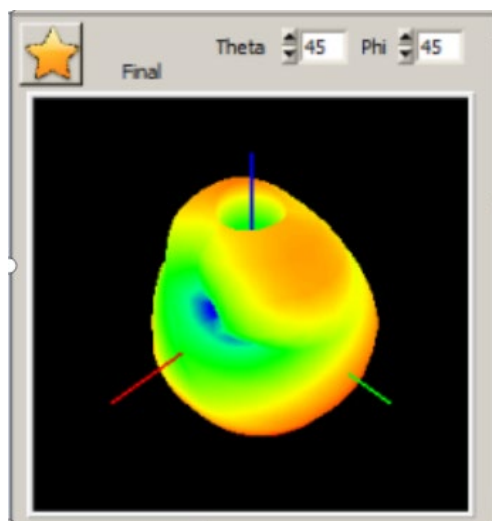
Element	Value
E1	未更改
E2	未更改
E3	未更改
E4	未更改

手机型号	1#	备注说明					
测试项目		GSM900测量数值			DCS1800测量数值		
信 道		1	62	120	512	698	885
TRP (dBm)		25.04	25.28	26.18	25.21	26.4	26.53
TIS (dBm)				-103.44			-104.46
测试项目		GSM850测量数值			PCS1900测量数值		
信 道		128	190	251	512	661	810
TRP (dBm)		26.09	26.03	25.87	25.45	25.11	25.35
TIS (dBm)				-103.55			-105.28
测试项目		WCDMA850测量数值			WCDMA1700测量数值		
信 道		4357	4400	4458	1537	1618	1738
TRP (dBm)		15.32	15.14	15.48	17.81	17.84	17.95
TIS (dBm)				-102.3			-105.23

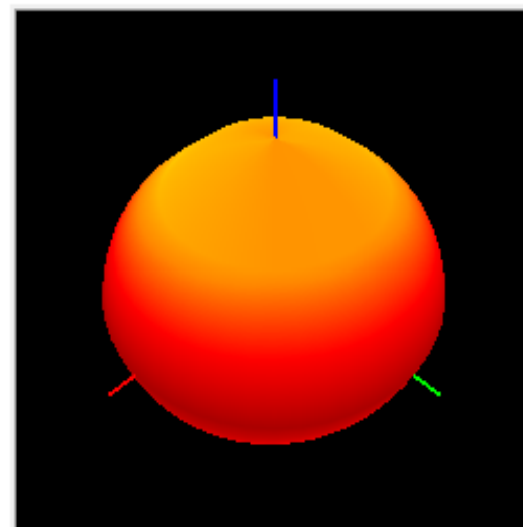
手机型号	1#	备注说明				
测试项目	WCDMA1900测量数值					
信 道	9662	9800	9938			
TRP (dBm)	18.43	19.22	19.6			
TIS (dBm)			-105.65			
测试项目	LTE-FDD-B2			LTE-FDD-B4		
信 道	650	900	1150	2000	2175	2350
TRP (dBm)	18.66	18.74	18.69	18.12	17.76	17.75
TIS (dBm)			-93.35			-93.65
测试项目	LTE-FDD-B5			LTE-FDD-B12		
信 道	2450	2525	2600	5780	5790	5800
TRP (dBm)	15.45	15.13	15.22	14.6	15.12	15.03
TIS (dBm)			-91.71			-92.43

手机型号	1#	备注说明					
测试项目		LTE-FDD-B17			LTE-FDD-B66		
信 道		9260	9420	9600	L	M	H
TRP (dBm)		15.32	15.57	15.64	17.98	17.49	17.31
TIS (dBm)				-91.75			-92.98
测试项目		LTE-FDD-B71					
信 道		L	M	H			
TRP (dBm)		12.28	14.26	15.06			
TIS (dBm)				-89.52			

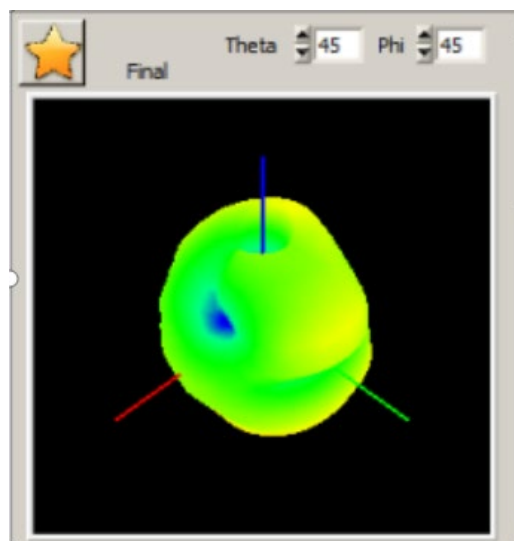
GSM850
-TRP



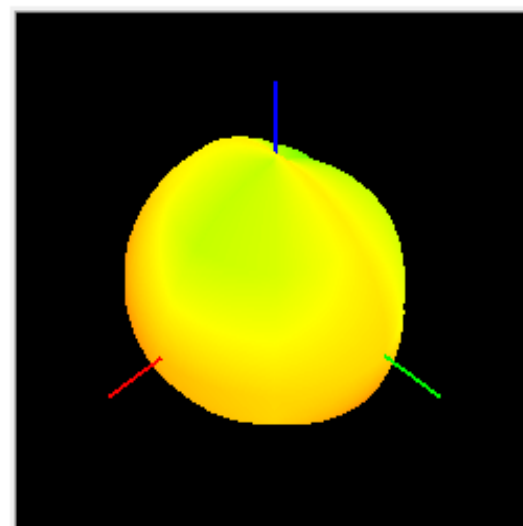
GSM850
-TIS



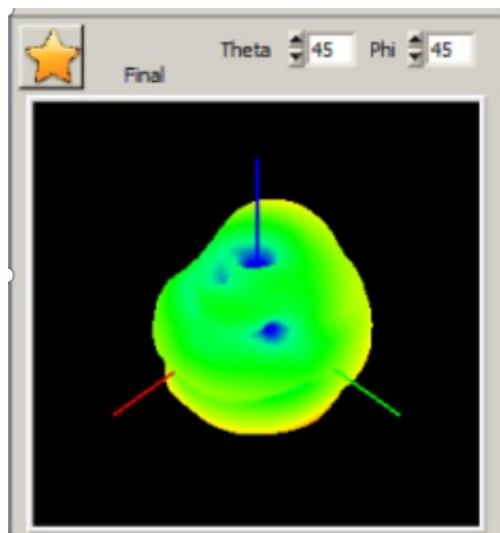
GSM900
-TRP



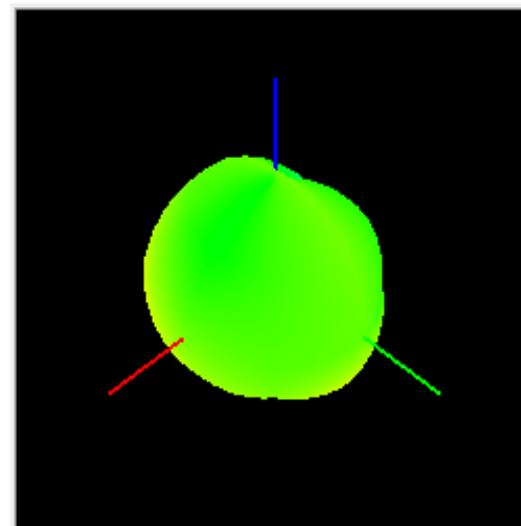
GSM900
-TIS



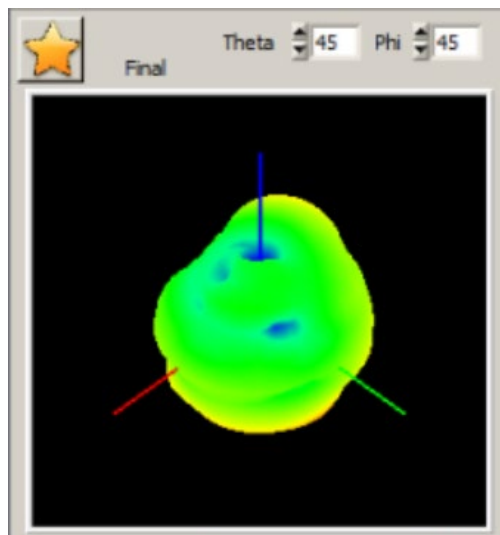
DCS1800
-TRP



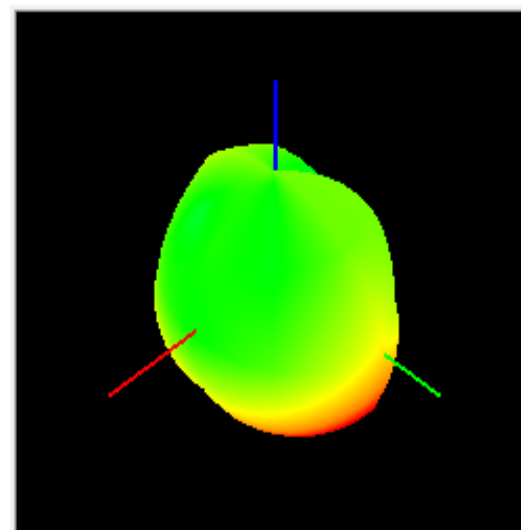
DCS1800
-TIS



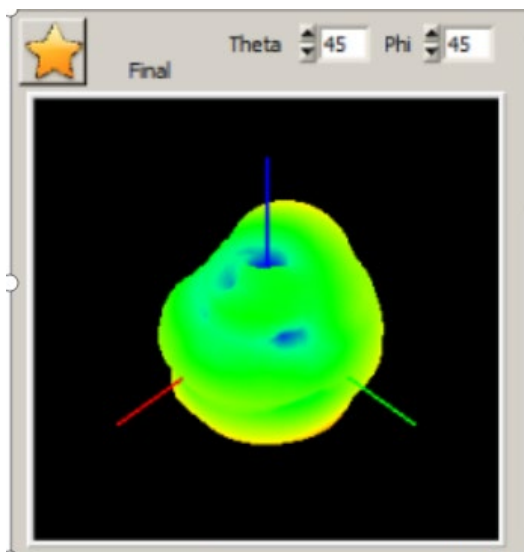
PCS1900
-TRP



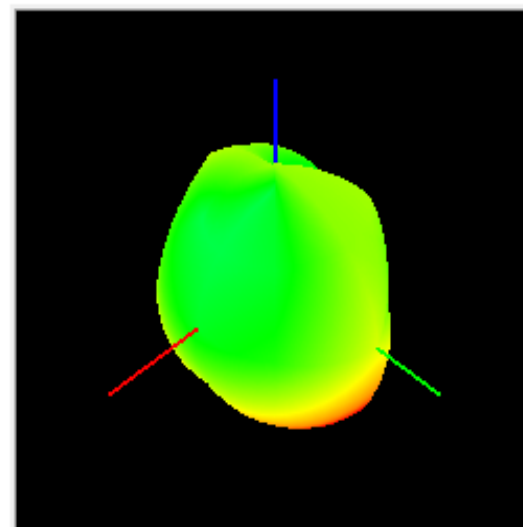
PCS1900
-TIS



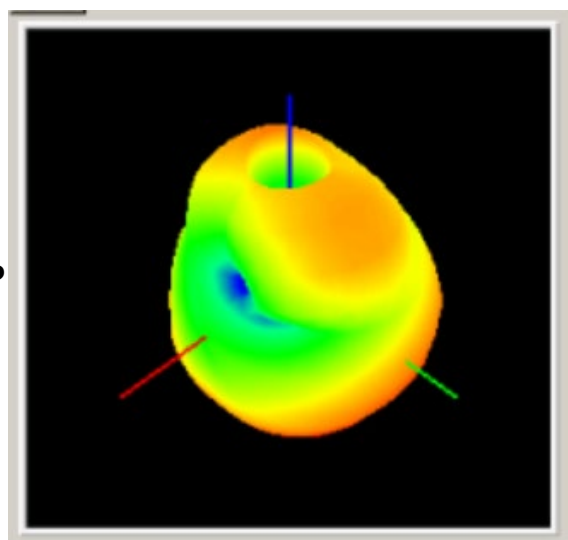
W2-TRP



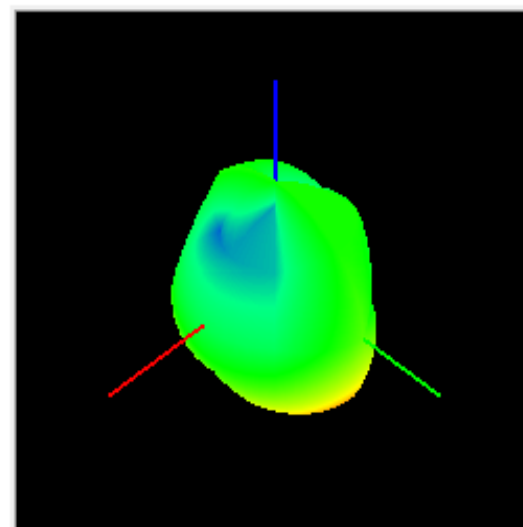
W2-TIS



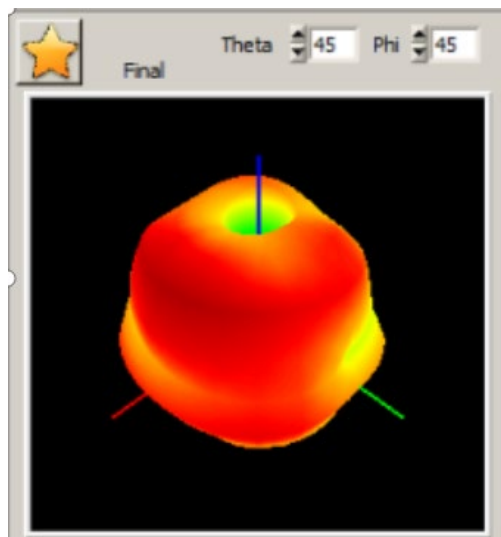
W5-TRP



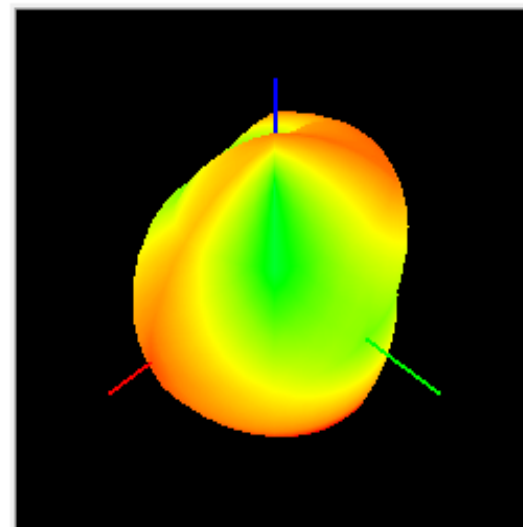
W5-TIS



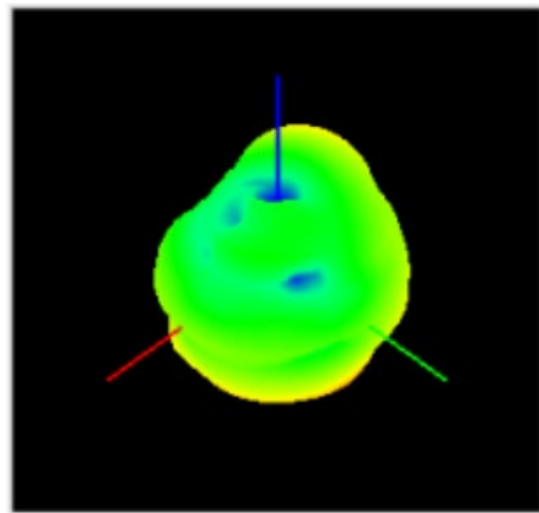
W4-TRP



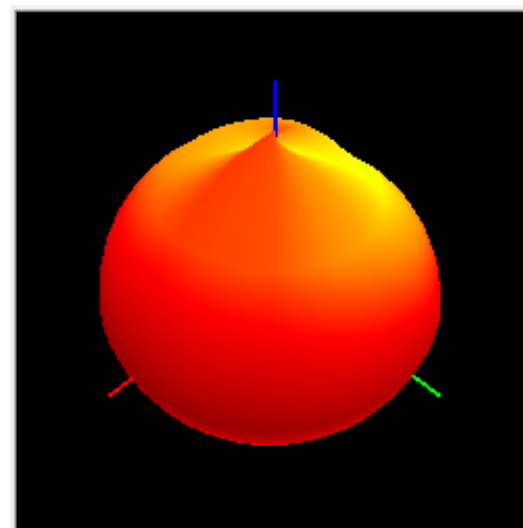
W4-TIS



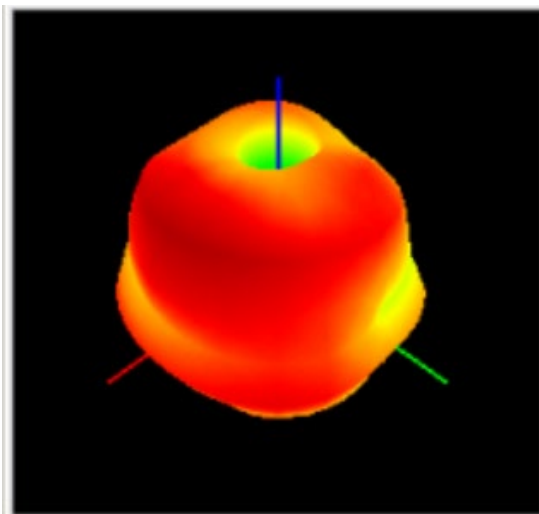
FDD-B2-TRP



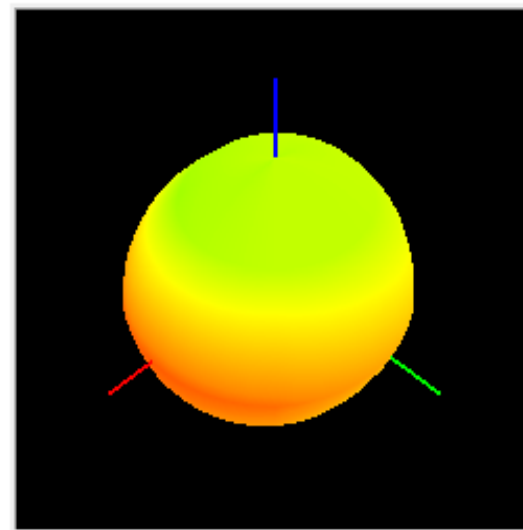
FDD-B2-TIS



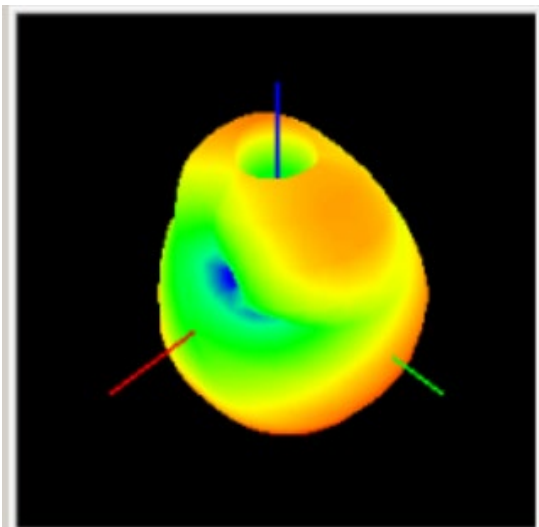
FDD-B4-
TRP



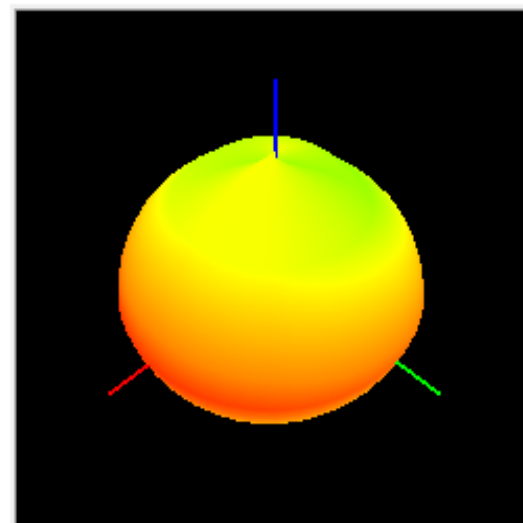
FDD-B4-
TIS



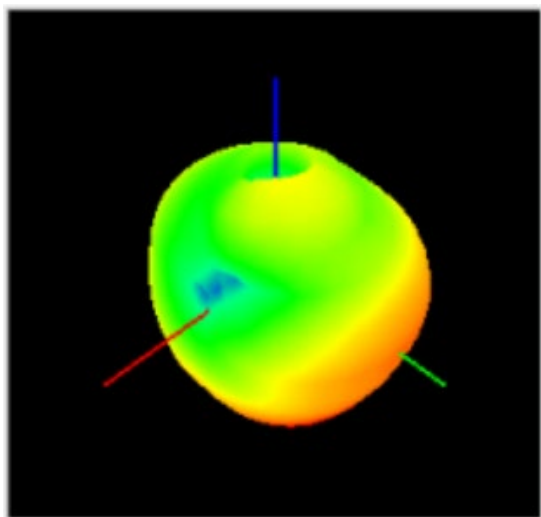
FDD-B5-
TRP



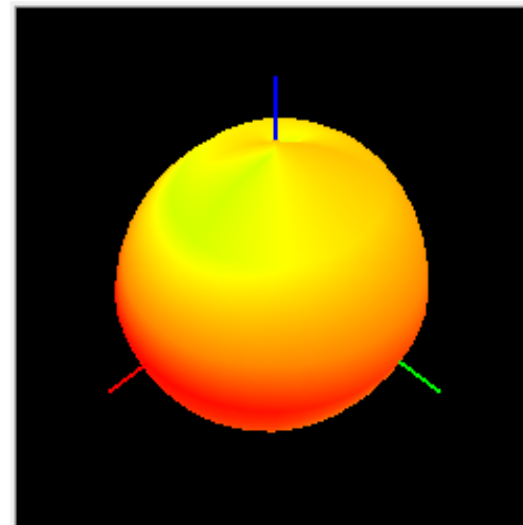
FDD-B5-
TIS



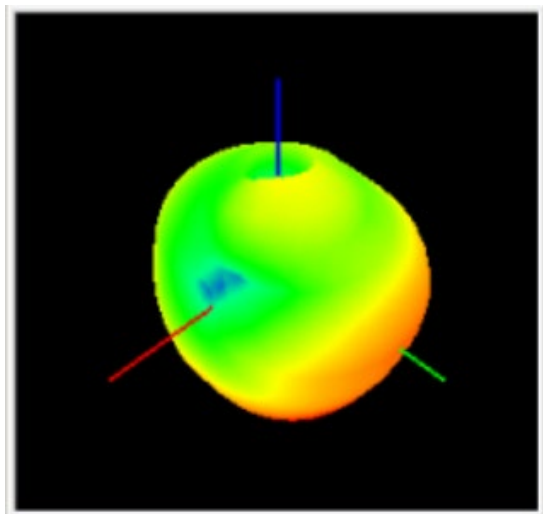
FDD-
B12-TRP



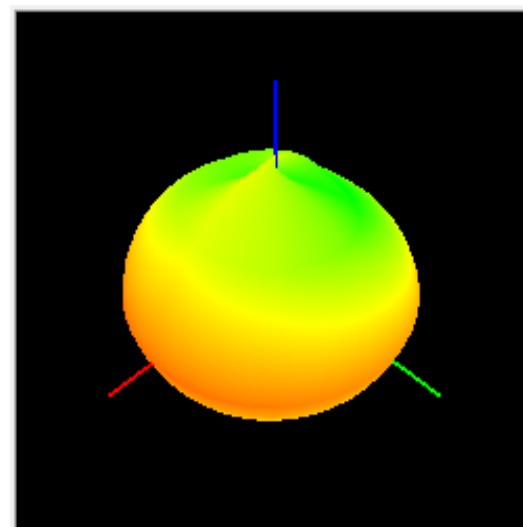
FDD-
B12-TIS



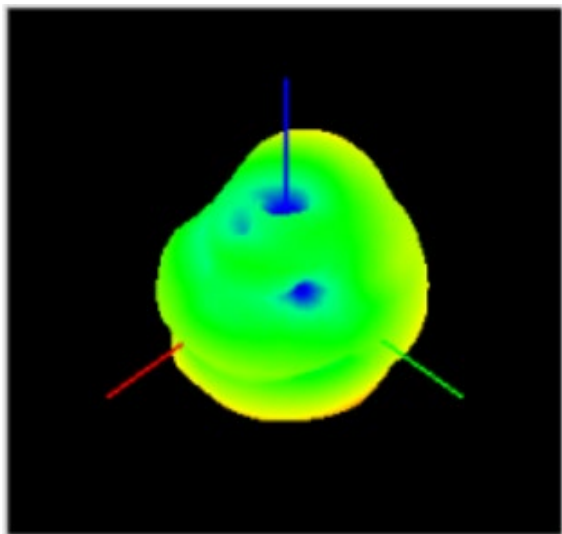
FDD-
B17-TRP



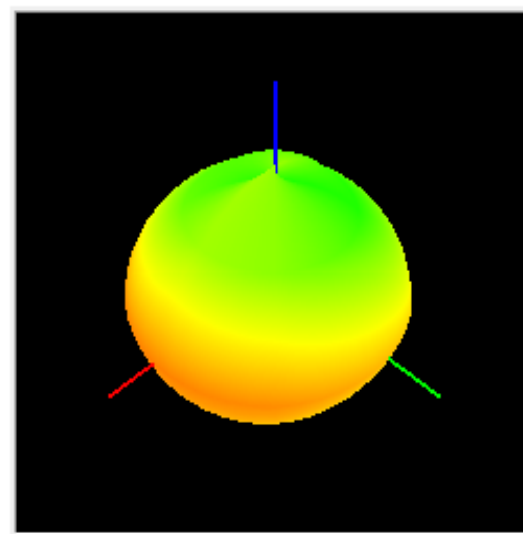
FDD-
B17-TIS



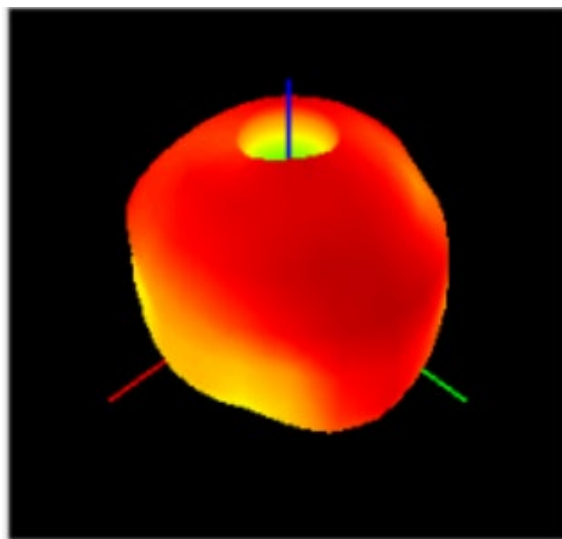
FDD-
B66-TRP



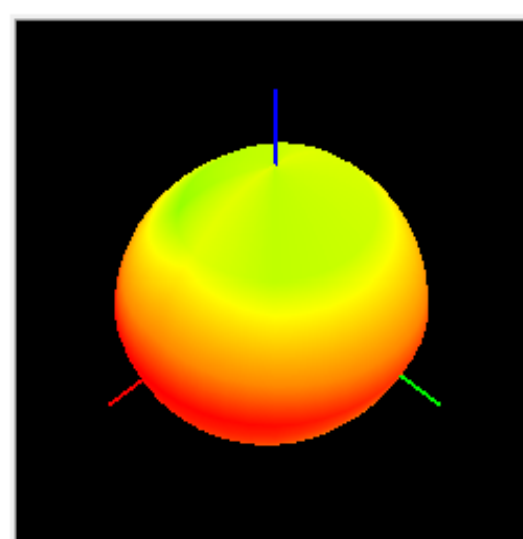
FDD-
B66-TIS



FDD-
B71-TRP



FDD-
B71-TIS



R53天线增益

Band	Max Gain
GSM850	0.2dBi
GSM900	0.23dBi
DCS1800	0.5dBi
PCS1900	0.57dBi
WCDMA1900	0.57dBi
WCDMA1700	0.5dBi
WCDMA850	0.2dBi
BAND 2	0.57dBi
BAND 4	0.5dBi
BAND 5	0.2dBi
BAND 12	0.15dBi
BAND 17	0.15dBi
BAND 66	0.55dBi
BAND 71	0.1dBi
GPS	0.46dBi
Bluetooth/WiFi	0.9dBi



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