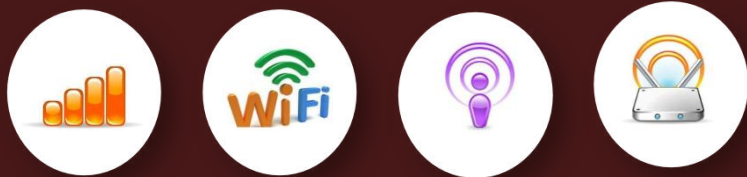




深圳麒鑫通达科技有限公司



# 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05月10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。

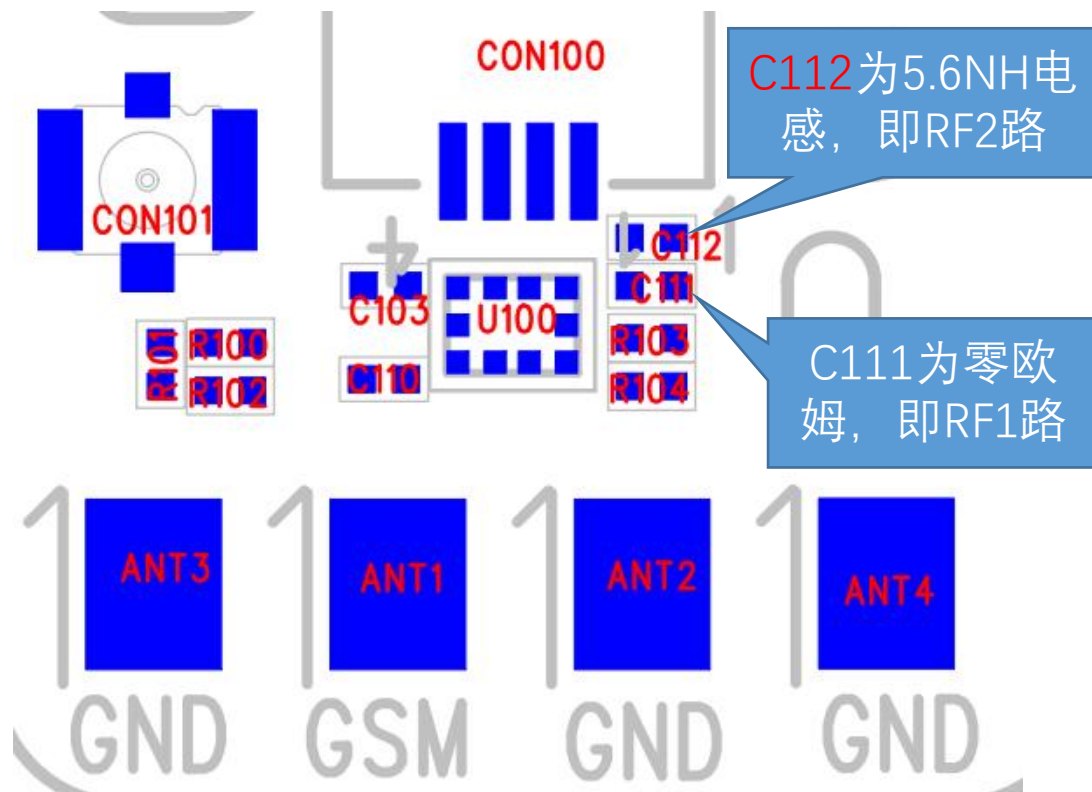




**开关逻辑：**

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

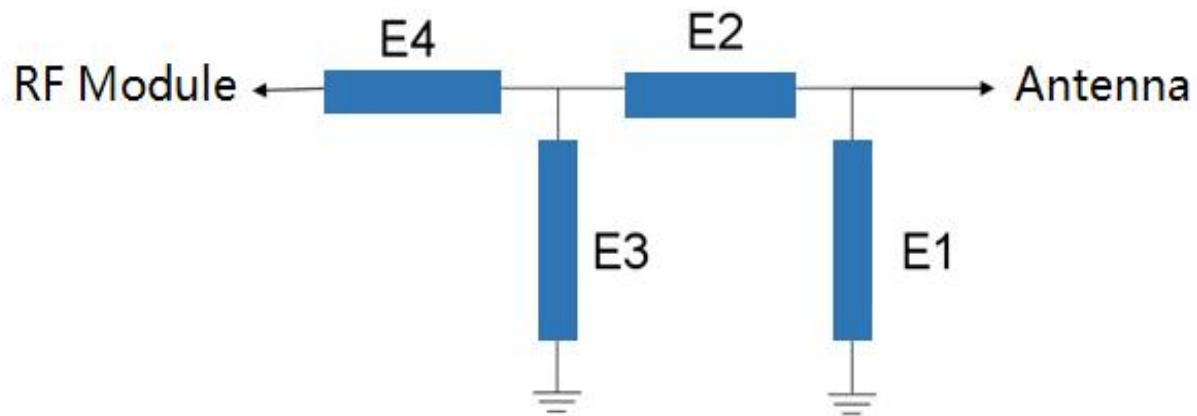
**RF2路： LTE-FDD-B12/B17/B71 (5.6NH)**



## 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

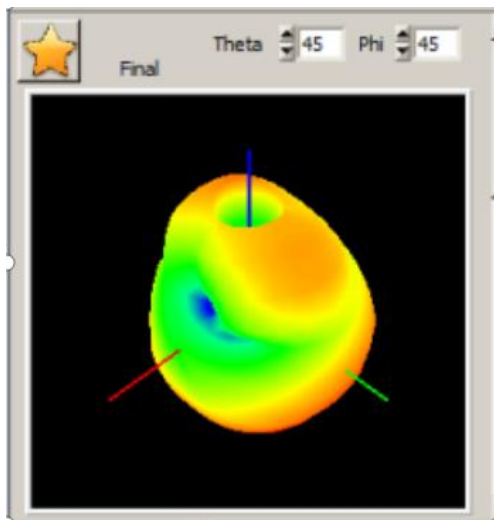
手机型号	1#	备注说明					
测试项目	GSM900测量数值			DCS1800测量数值			
信道	1	62	120	512	698	885	
TRP (dBm)	25.04	25.28	26.18	25.21	26.4	26.53	
TIS (dBm)			-103.44			-104.46	
测试项目	GSM850测量数值			PCS1900测量数值			
信道	128	190	251	512	661	810	
TRP (dBm)	26.09	26.03	25.87	25.45	25.11	25.35	
TIS (dBm)			-103.55			-105.28	
测试项目	WCDMA850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	



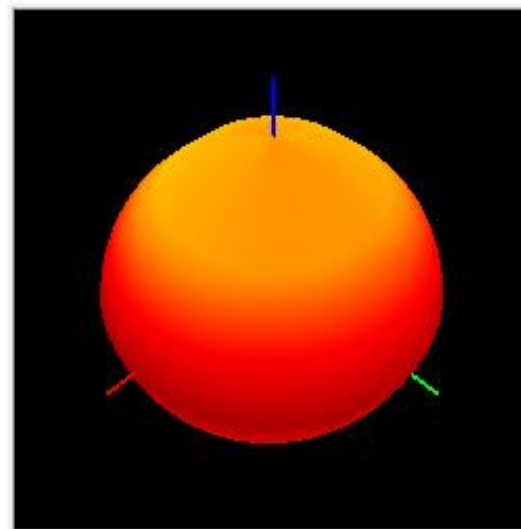
手机型号	1#	备注说明					
测试项目	WCDMA1900测量数值						
信道	9662	9800	9938				
TRP (dBm)	18.43	19.22	19.6				
TIS (dBm)			-105.65				
测试项目	LTE-FDD-B2			LTE-FDD-B4			
信道	650	900	1150	2000	2175	2350	
TRP (dBm)	18.66	18.74	18.69	18.12	17.76	17.75	
TIS (dBm)			-93.35				-93.65
测试项目	LTE-FDD-B5			LTE-FDD-B12			
信道	2450	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			

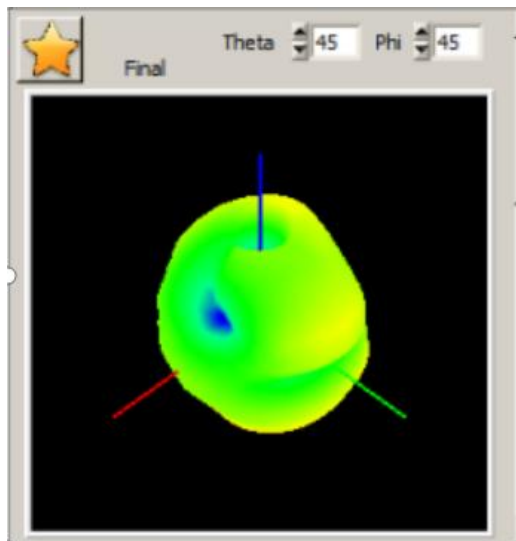
**GSM850  
-TRP**



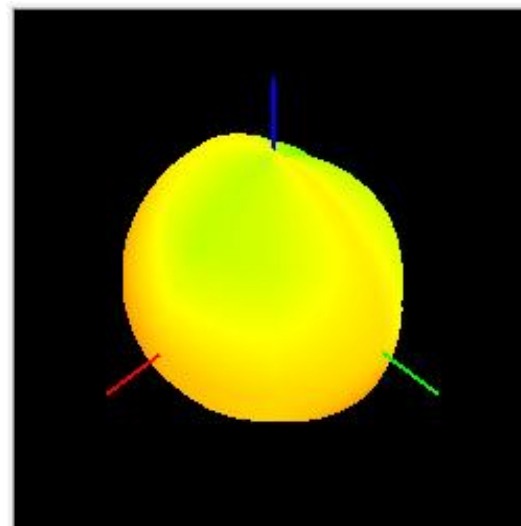
**GSM850  
-TIS**



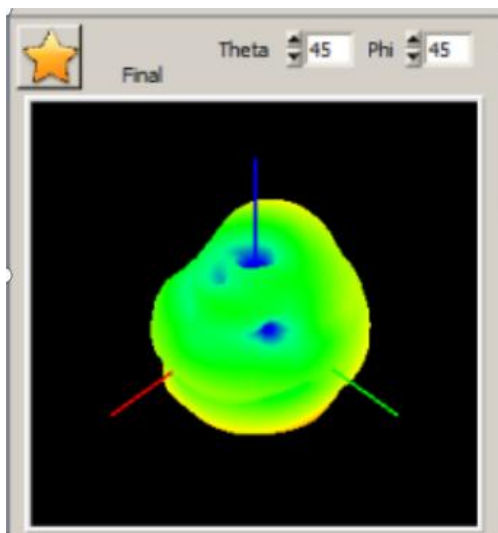
**GSM900  
-TRP**



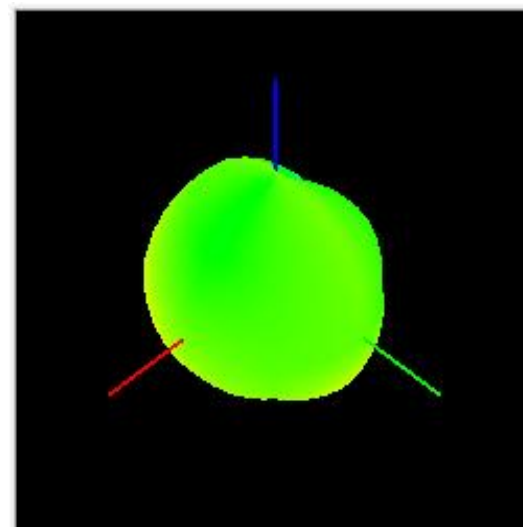
**GSM900  
-TIS**



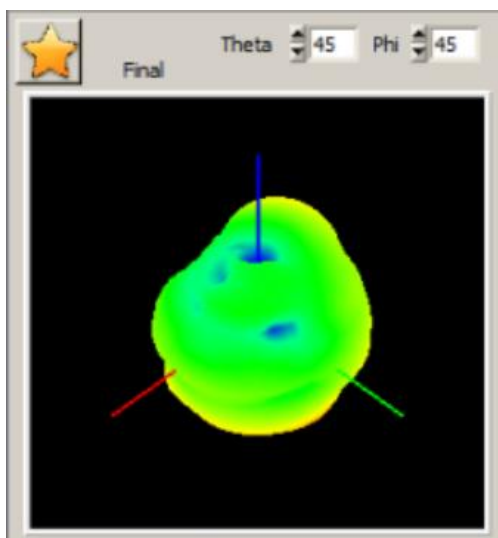
DCS1800  
-TRP



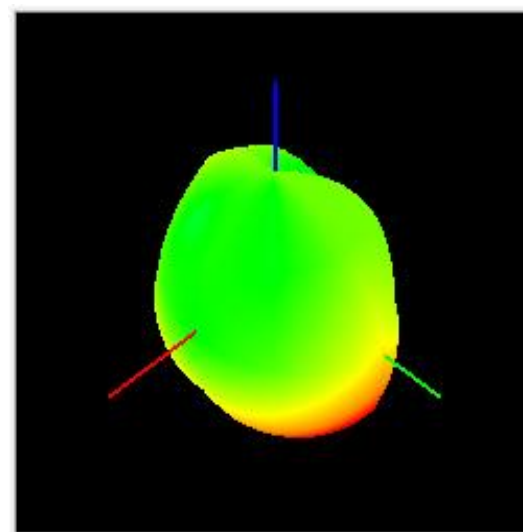
DCS1800  
-TIS



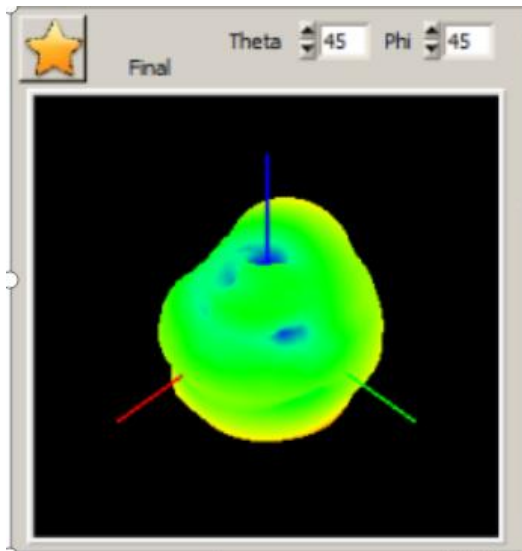
PCS1900  
-TRP



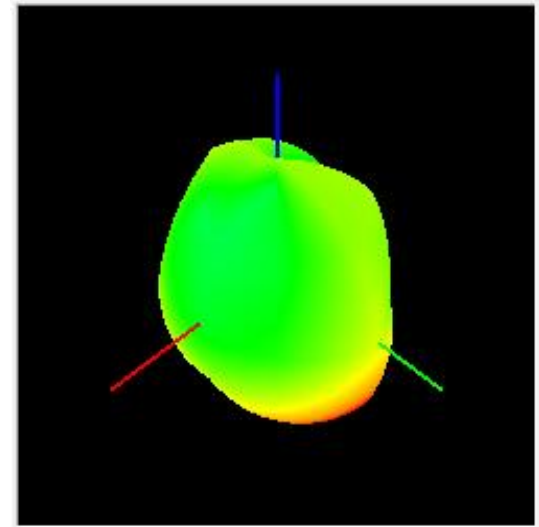
PCS1900  
-TIS



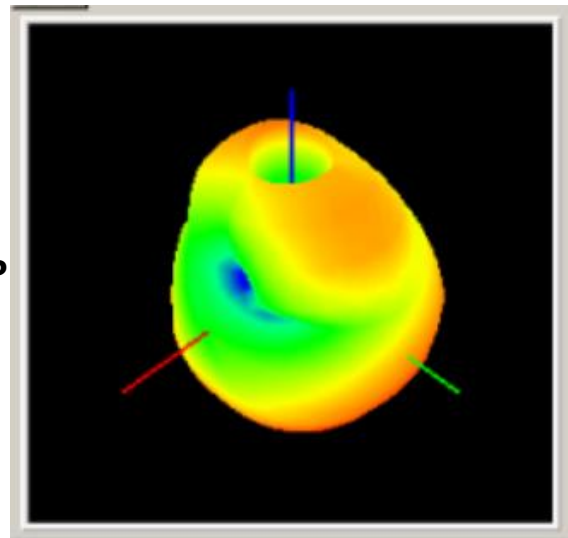
W2-TRP



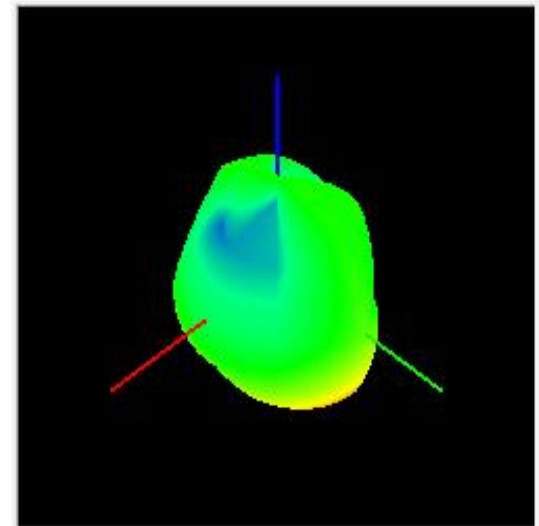
W2-TIS



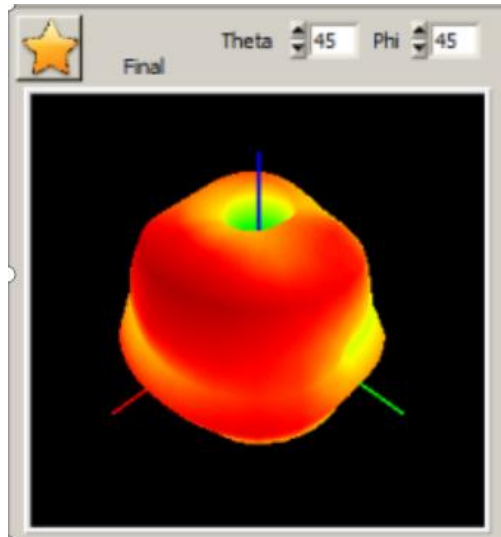
W5-TRP



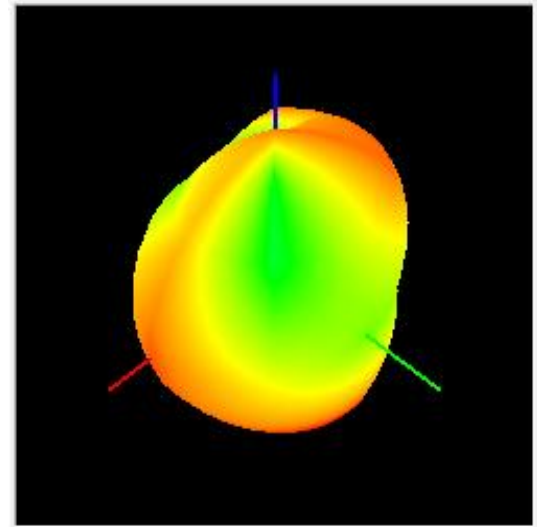
W5-TIS



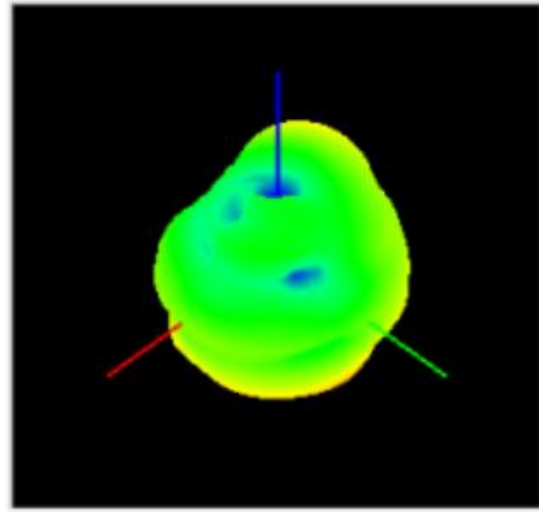
W4-TRP



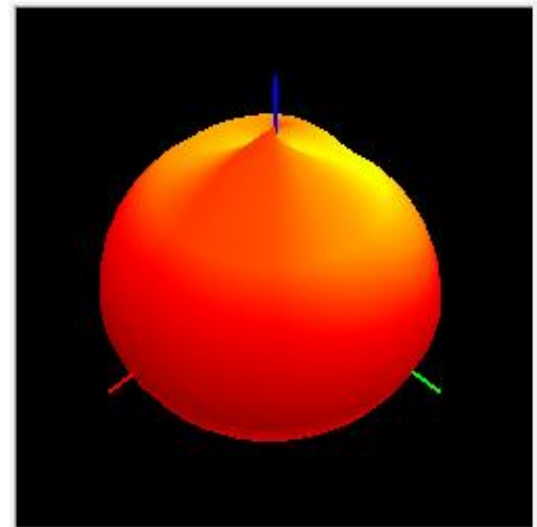
W4-TIS



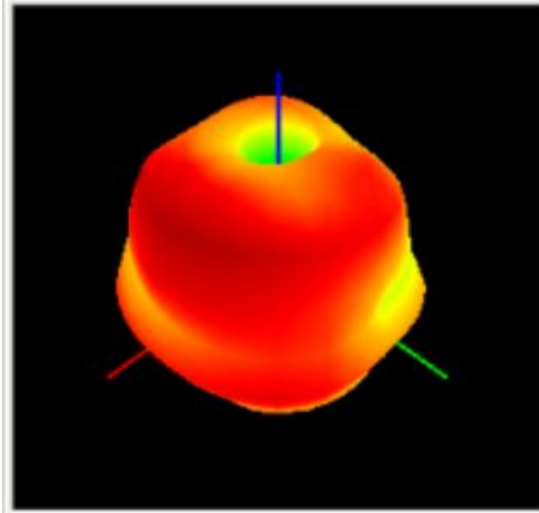
FDD-B2-TRP



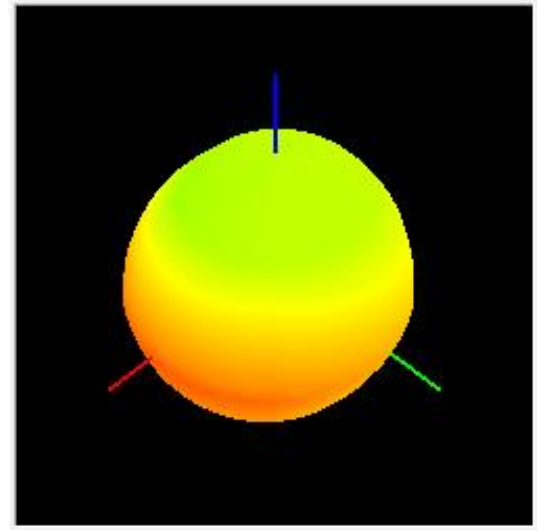
FDD-B2-TIS



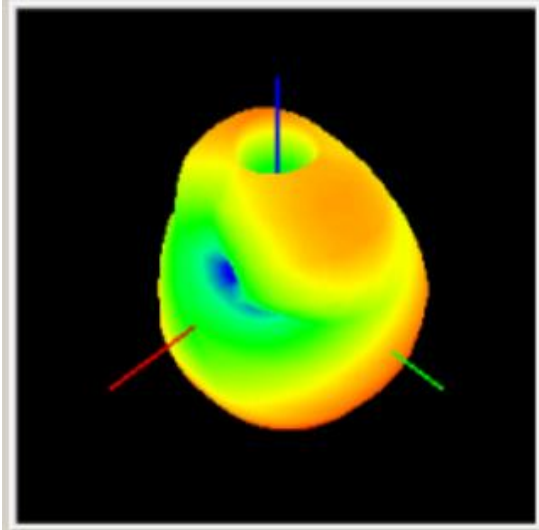
FDD-B4-  
TRP



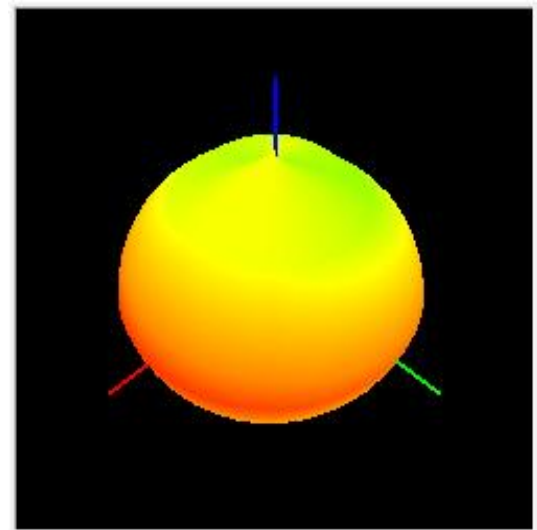
FDD-B4-  
TIS



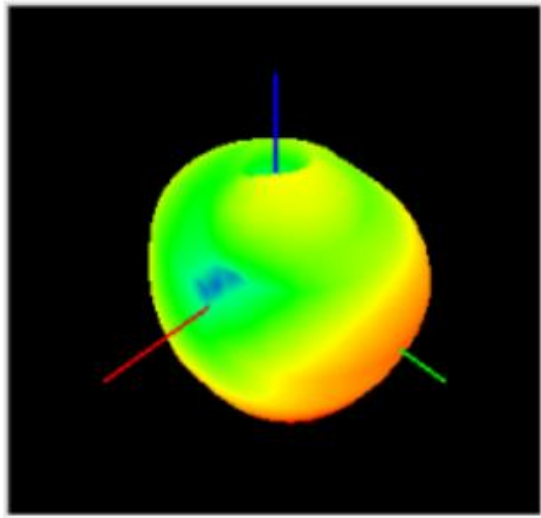
FDD-B5-  
TRP



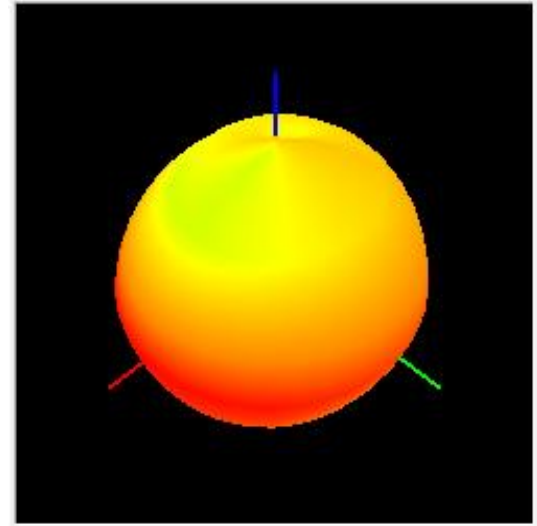
FDD-B5-  
TIS



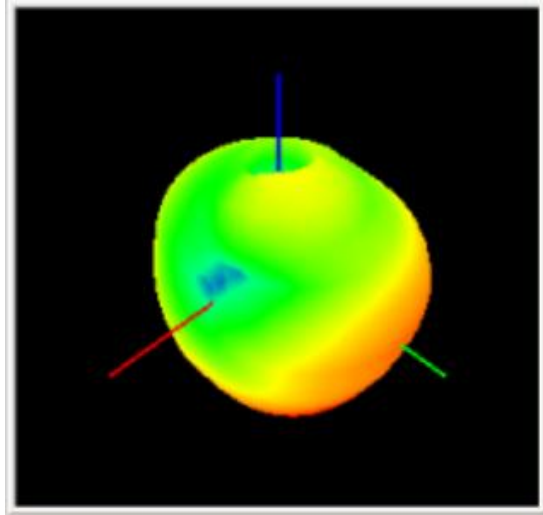
FDD-  
B12-TRP



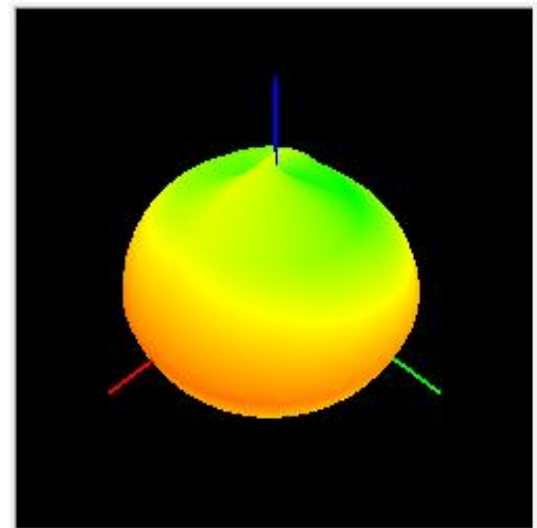
FDD-  
B12-TIS



FDD-  
B17-TRP

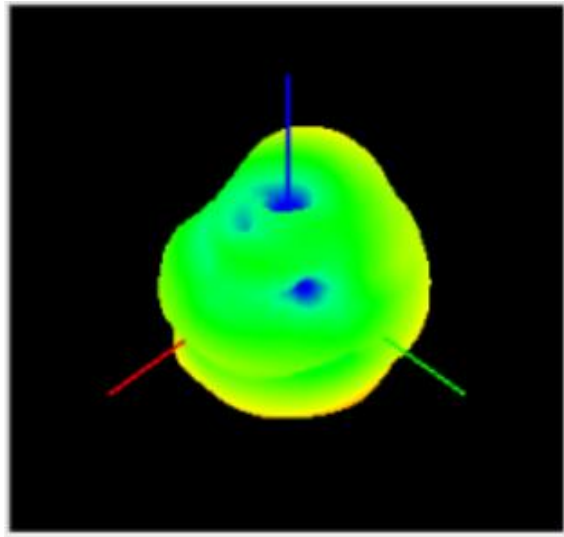


FDD-  
B17-TIS

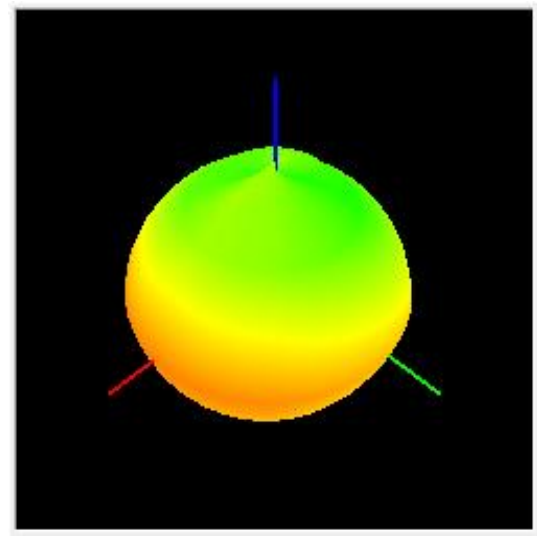




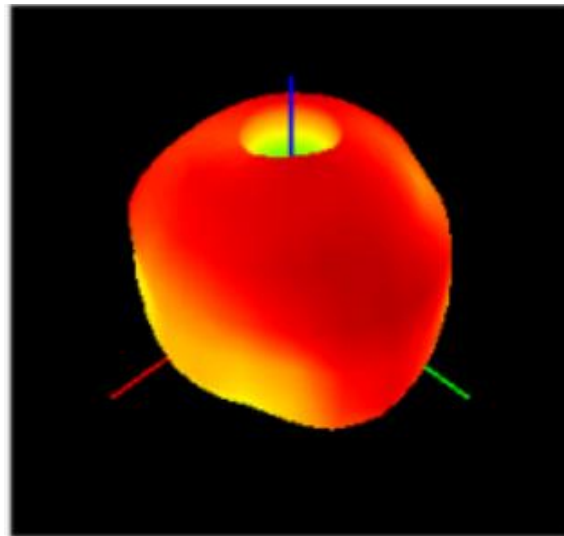
FDD-  
B66-TRP



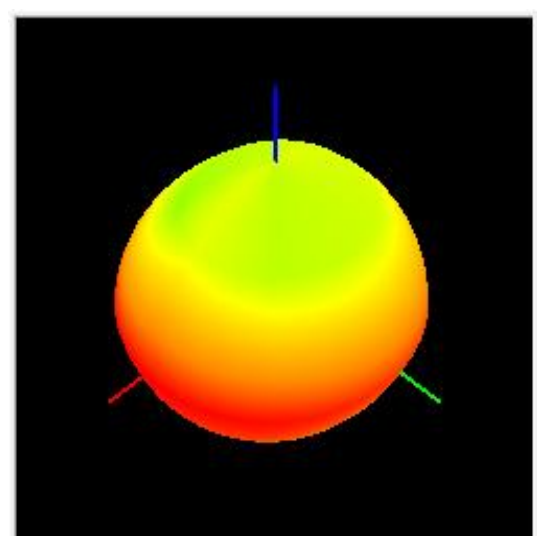
FDD-  
B66-TIS

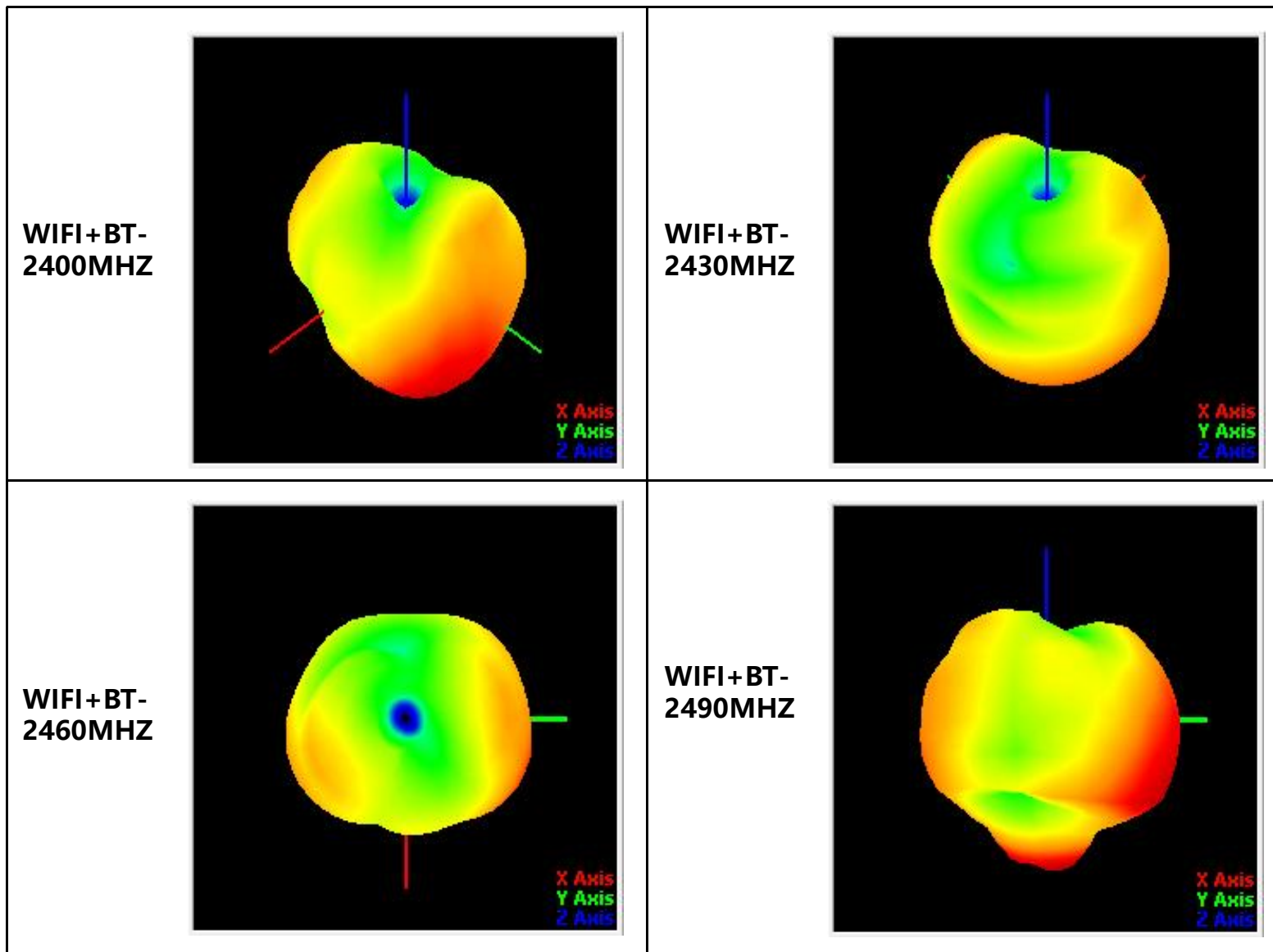


FDD-  
B71-TRP



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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