

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Client Name: OUQI

Project Name: S165-4G

Frequency Band: GSM B2/3/5/8+WCDMA B1/2/4/

5/8+FDD B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28/66

TDD B38/40/41

RF: LI HAI LONG (137 6025 5827)

2026-05-13

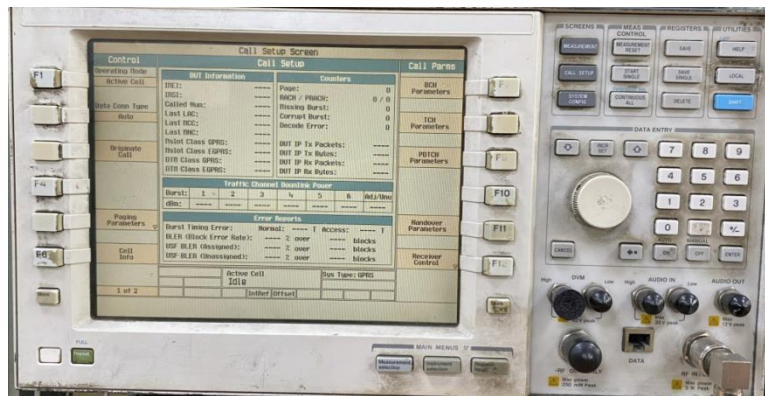
1.Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2G+3G+4G+5G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: CMW500/8960 Test Environment: Anechoic Chamber

2. Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)

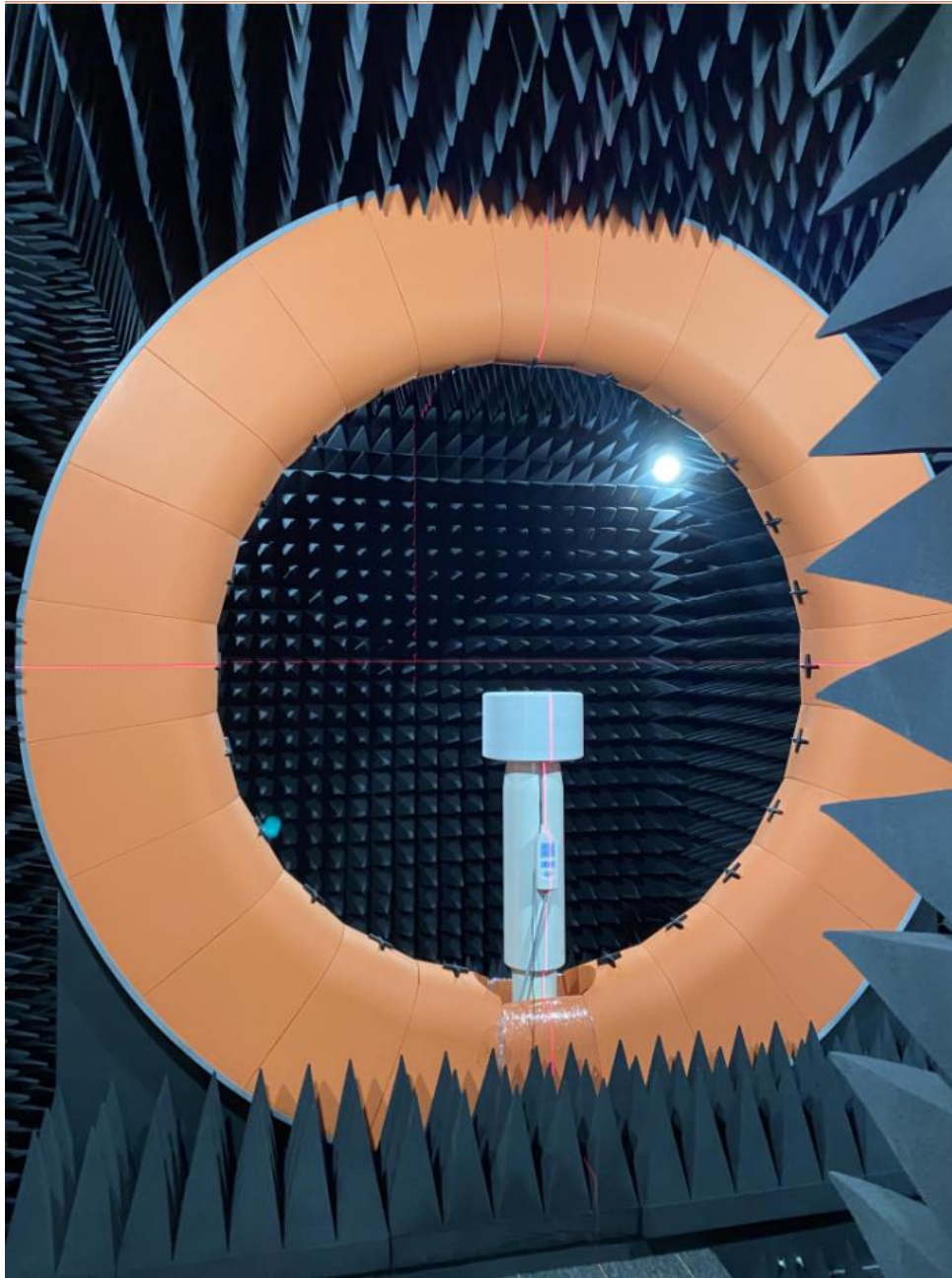


Agilent 8960 (2G/3G Test Equipment)



CMW 500 (2G/3G/4G Test Equipment)

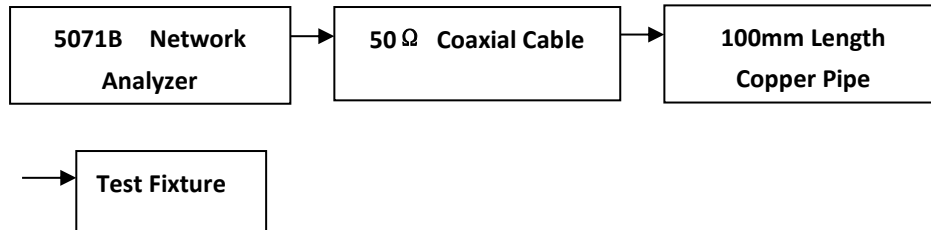
3. TestEnvironment



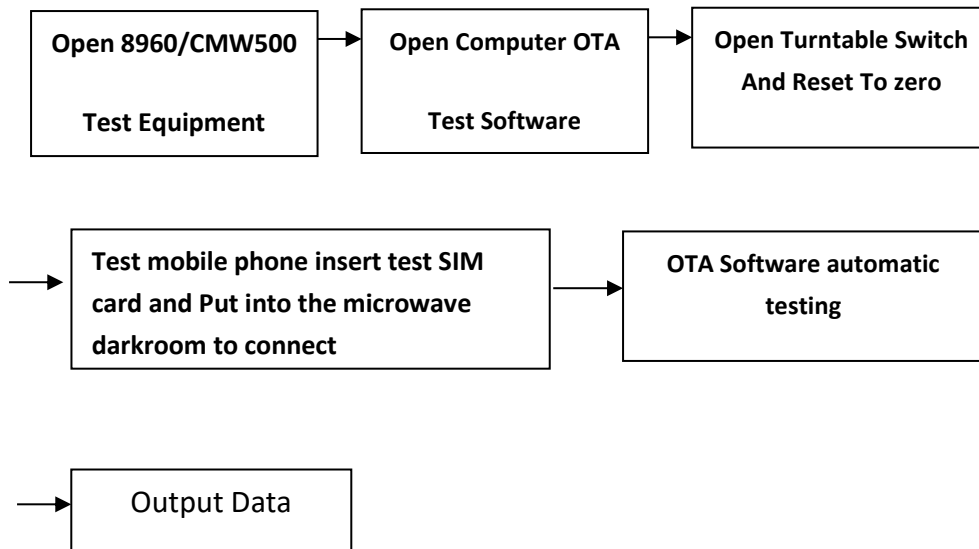
Anechoic Chamber

4.Test Steps

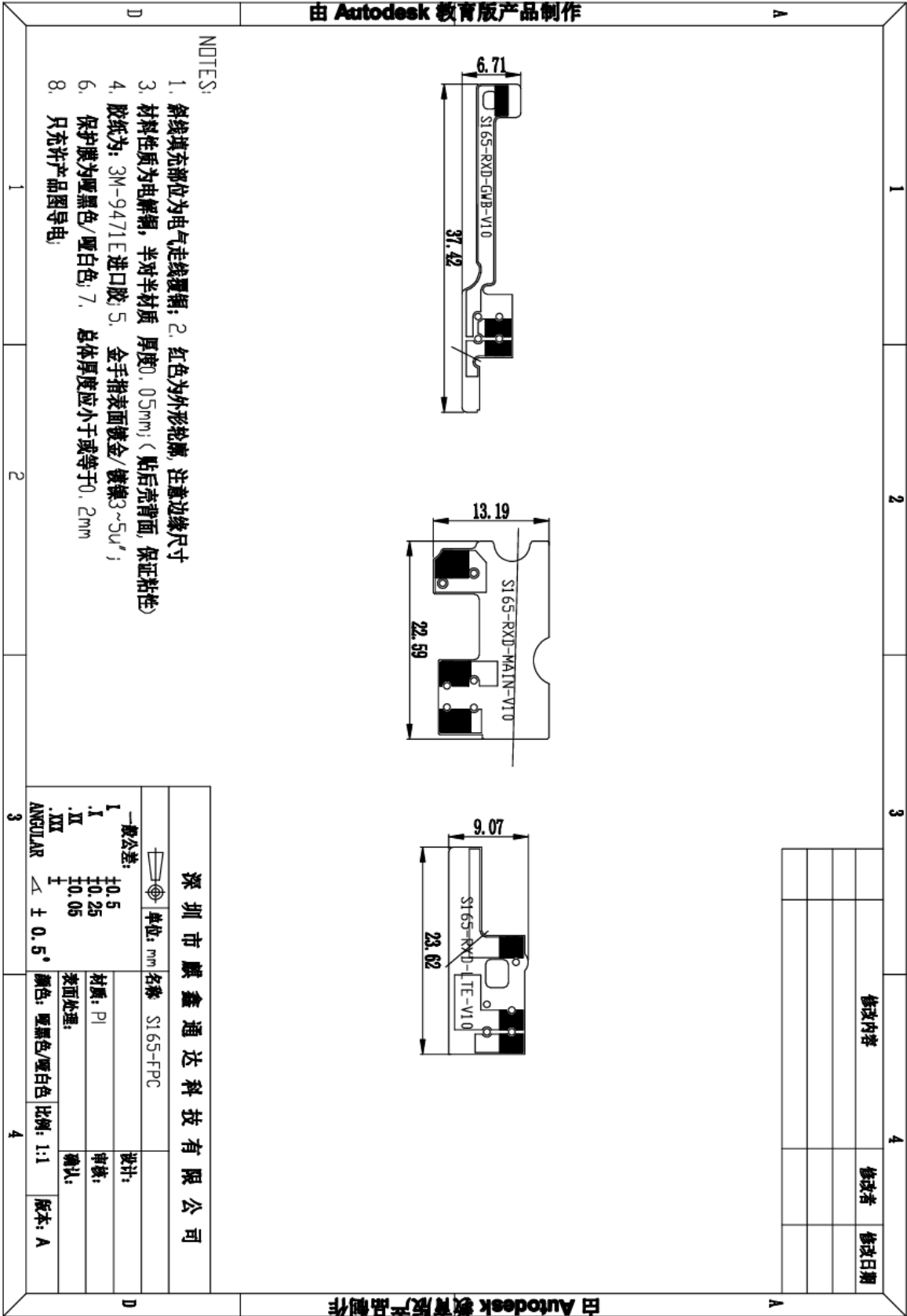
Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Dimensions

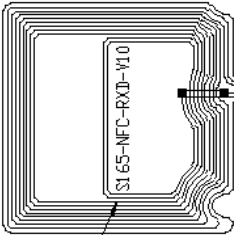


修改内容	修改者	修改日期

NFC正面，除补强位置背胶，其余位置不需要背胶

NFC金手指背面粘贴
0.15mm厚度PI补强板
带背胶打通孔

这一节离型纸不背胶做手撕位用



丝印白色字符

铁氧体双面背胶，铁氧体贴正面在NFC背面

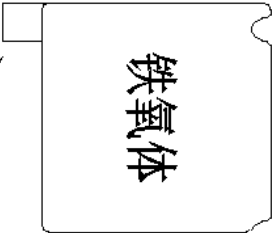
铁氧体正面

正面背胶用常规的



铁氧体背面

背面背胶用最粘的



手撕柄

NOTES:

1. 斜线填充部位为电气走线覆铜；2. 红色为外形轮廓，注意边缘尺寸
3. 材料性质为电解铜，半对半材质 厚度0.05mmj（贴后壳背面，保证粘性）
4. 胶纸为：3M-9471E进口胶；5. 金手指表面镀金/镀镍3~5μ'；
6. 保护膜为哑黑色/哑白色；7. 总体厚度应小于或等于0.2mm
8. 只允许产品图导电！

深 圳 市 麒 鑫 通 达 科 技 有 限 公 司					
		单位: mm	名称: SI 65-NFC	设计:	
一般公差:				材料: PI	
I		±0.5		表面处理:	
II		±0.25		颜色: 哑黑色/哑白色	
III		±0.05		比例: 1:1	
ANGULAR		± 0.5°		版本: A	
				修改日期	

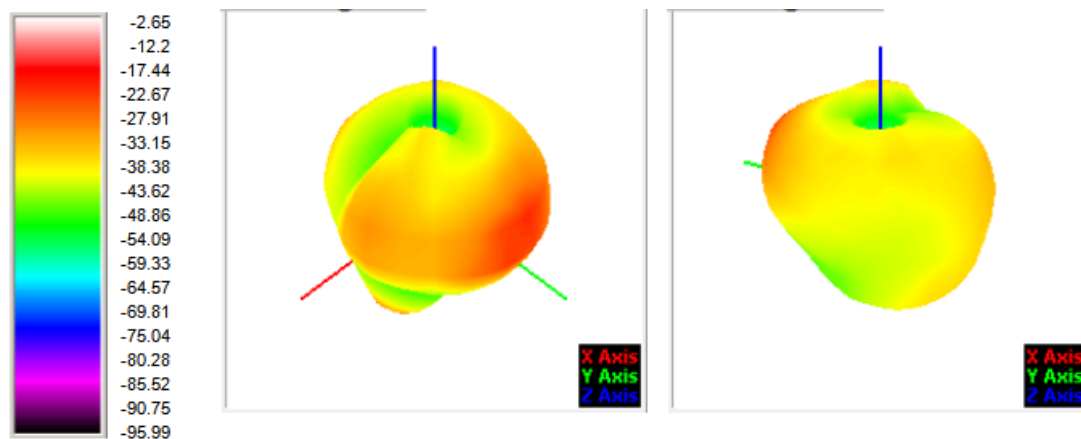
6. Antenna Gain

Frequency Band	Gain (dBi)
GSM850 (824-894MHz)	-2.65
GSM900 (880-960MHz)	-2.10
DCS1800 (1710-1880MHz)	0.15
PCS1900 (1850-1990MHz)	0.21
WCDMA850 (824-894MHz)	-2.65
WCDMA900 (880-960MHz)	-2.10
WCDMA1700 (1710-2155MHz)	0.18
WCDMA1900 (1850-1990MHz)	0.21
WCDMA2100 (1920-2170MHz)	0.19
FDD B 1 (1920-2170MHz)	0.19
FDD B 2 (1850-1990MHz)	0.21
FDD B 3 (1710-1880MHz)	0.15
FDD B 4 (1710-2155MHz)	0.16
FDD B 5 (824-894MHz)	-2.65
FDD B 7 (2500-2690MHz)	0.23
FDD B 8 (880-960MHz)	-2.10
FDD B 12 (699-746MHz)	-2.88
FDD B 17 (704-746MHz)	-2.88
FDD B 18 (815-875MHz)	-2.60
FDD B 19 (830-890MHz)	-2.60
FDD B 20 (791-862MHz)	-2.63
FDD B 25 (1850-1995MHz)	0.21
FDD B 26 (814-894MHz)	-2.65
FDD B 28 (703-803MHz)	-2.88
FDD B 66 (1700-2200MHz)	0.18

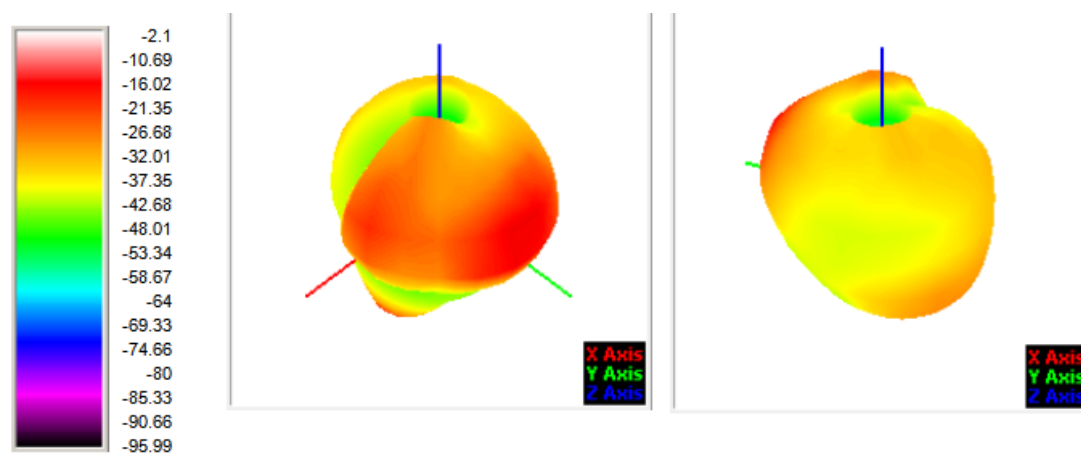
TDD B 38 (2570-2620MHz)	0.23
TDD B 40 (2300-2400MHz)	0.20
TDD B 41 (2496-2690MHz)	0.23
Bluetooth	0.15
WIFI-2.4G	0.15
WIFI-5G	0.12
GPS	0.06

7. 3D Lobe Diagram

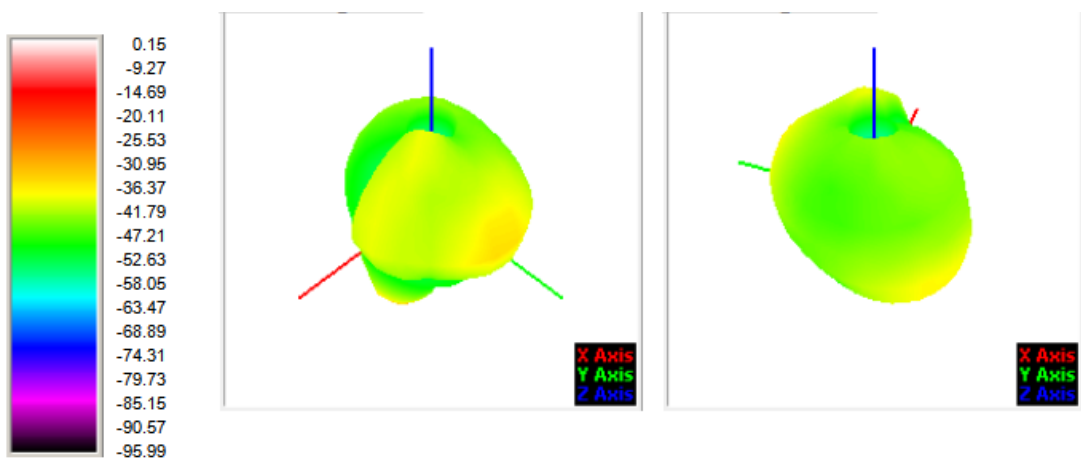
GSM850



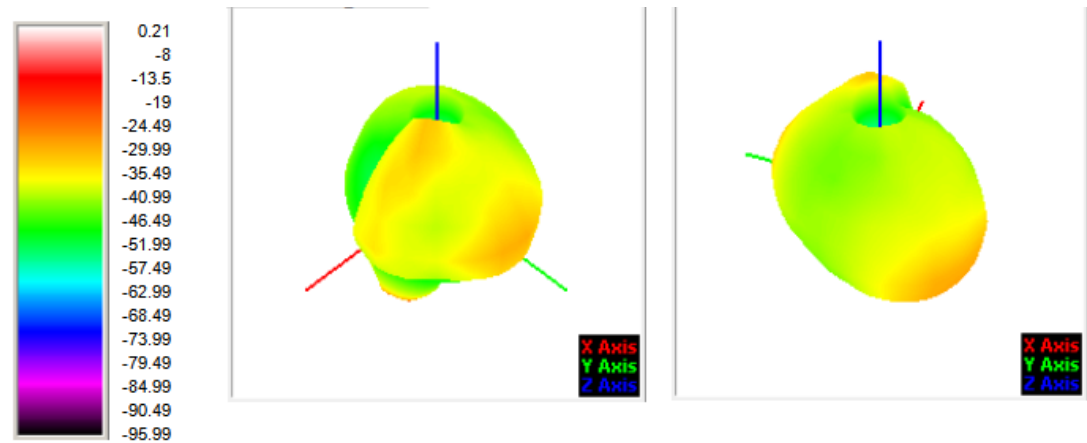
GSM900



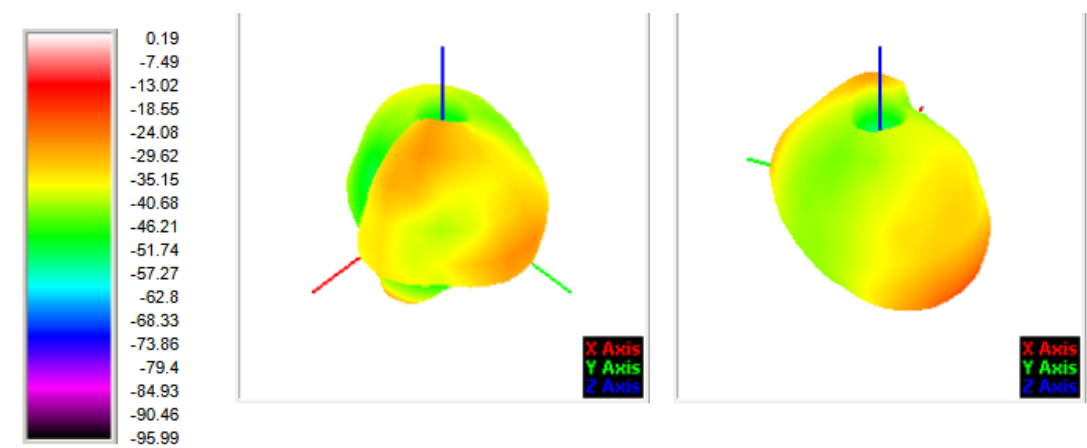
DCS1800



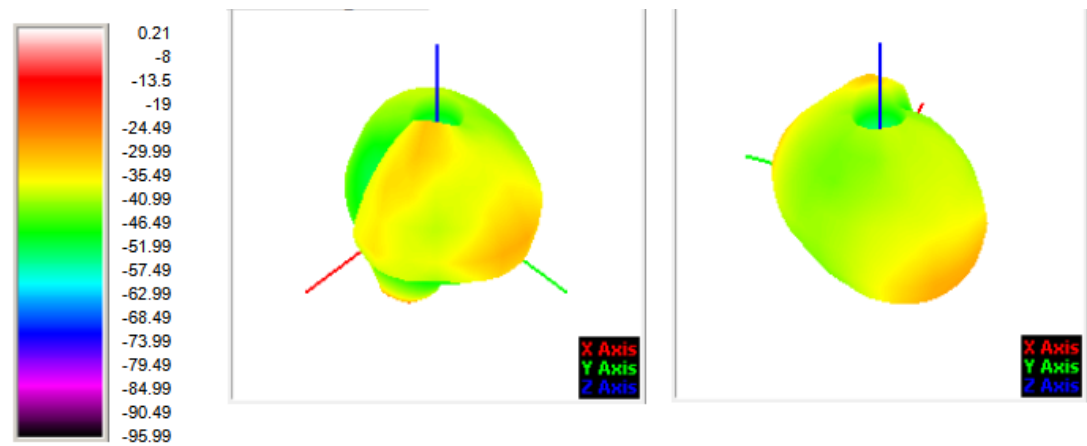
PCS1900



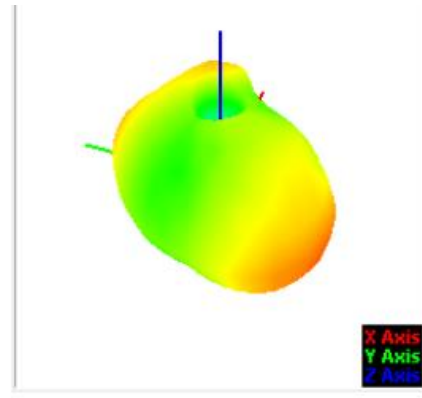
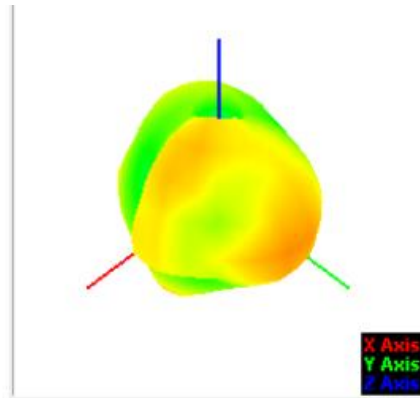
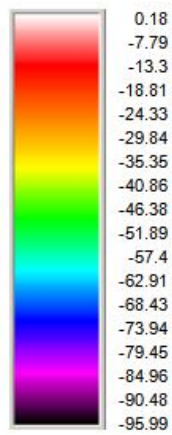
W-B1



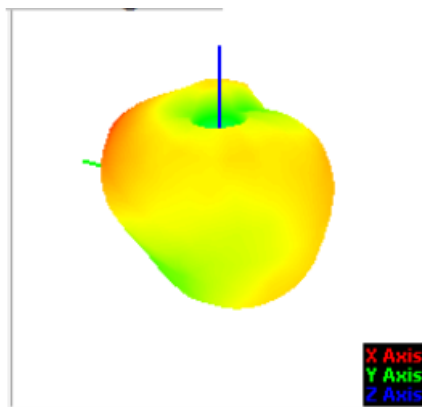
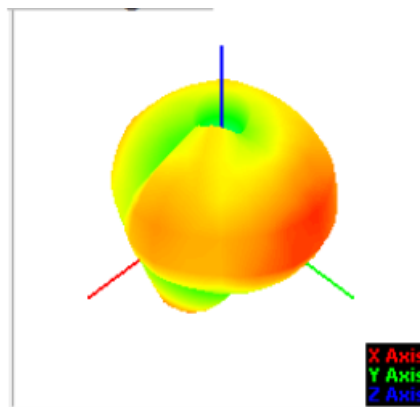
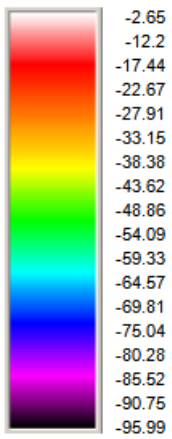
W-B2



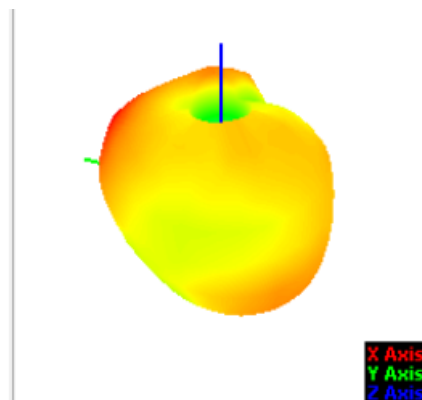
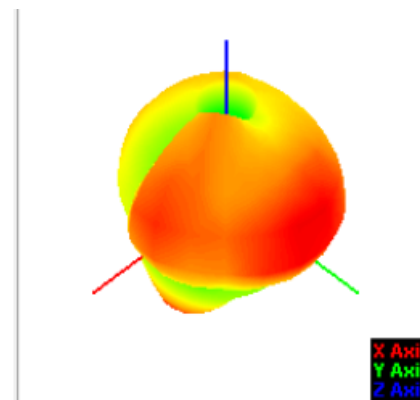
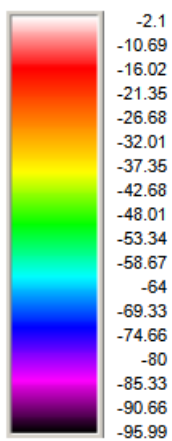
W-B4



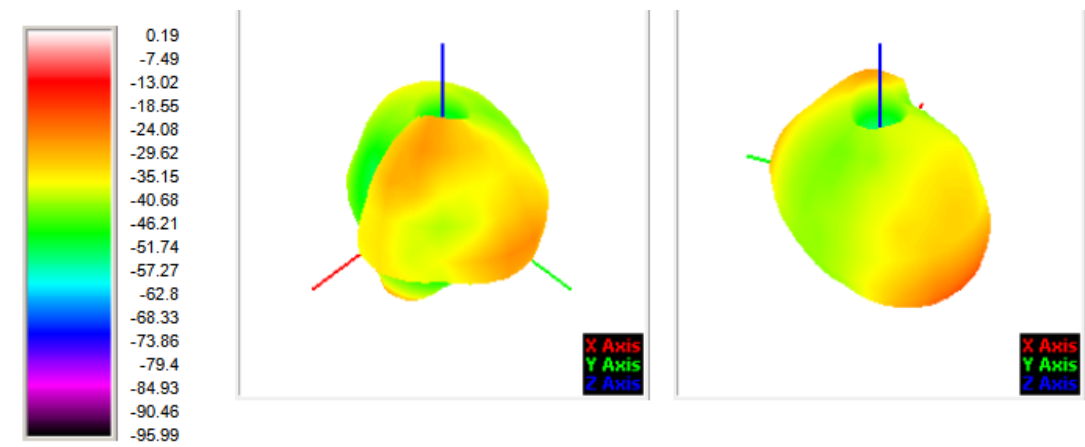
W-B5



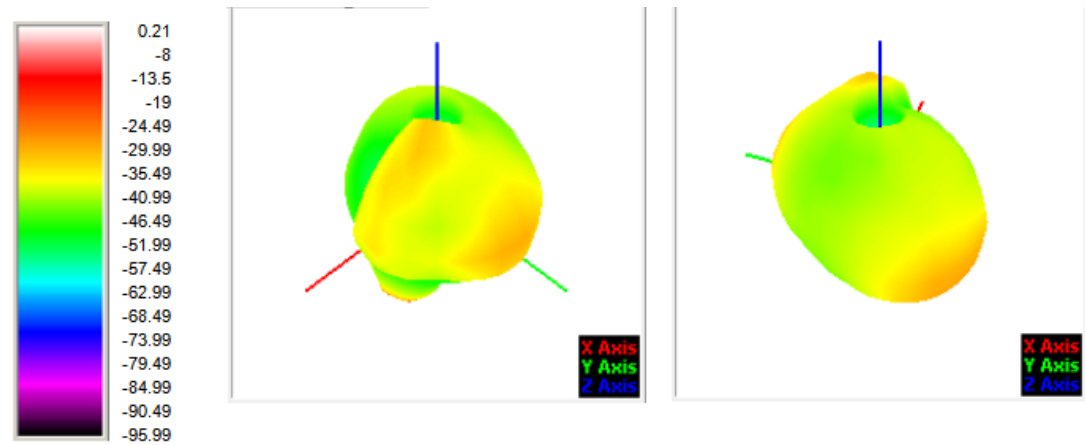
W-B8



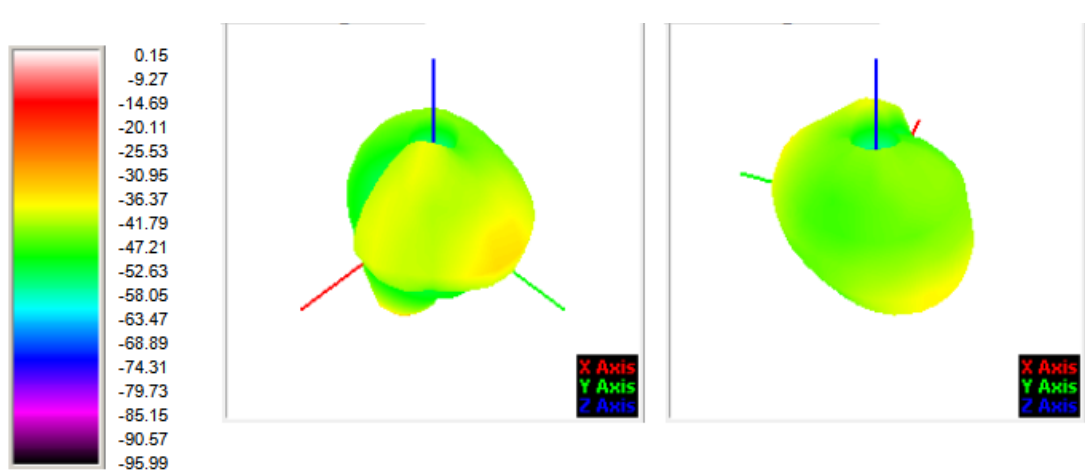
FDD-B1



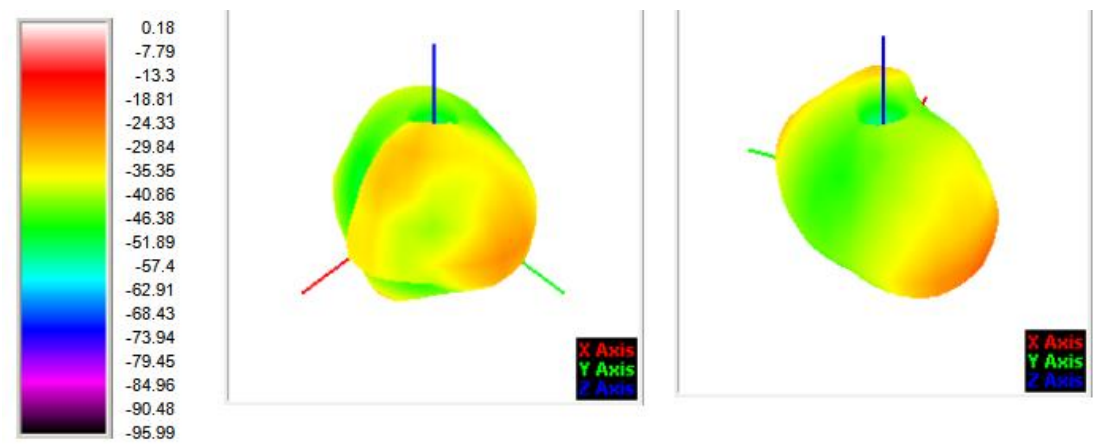
FDD-B2



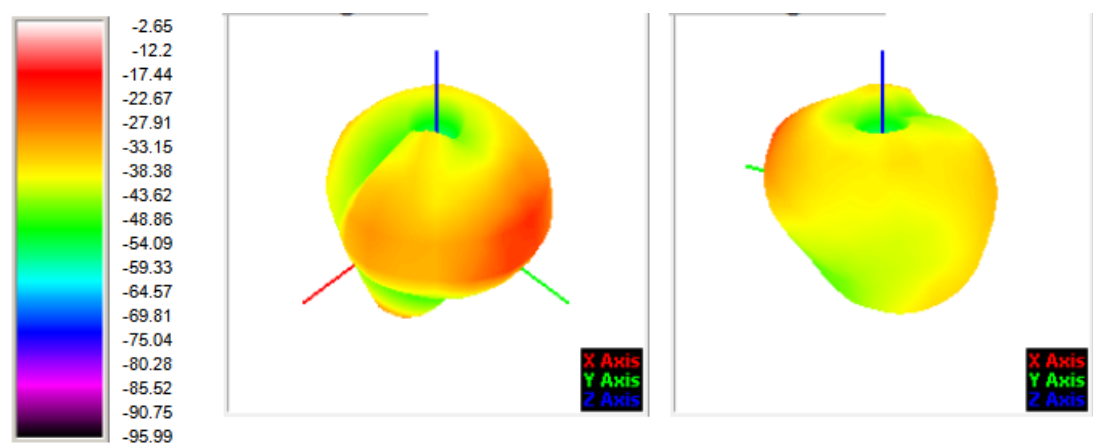
FDD-B3



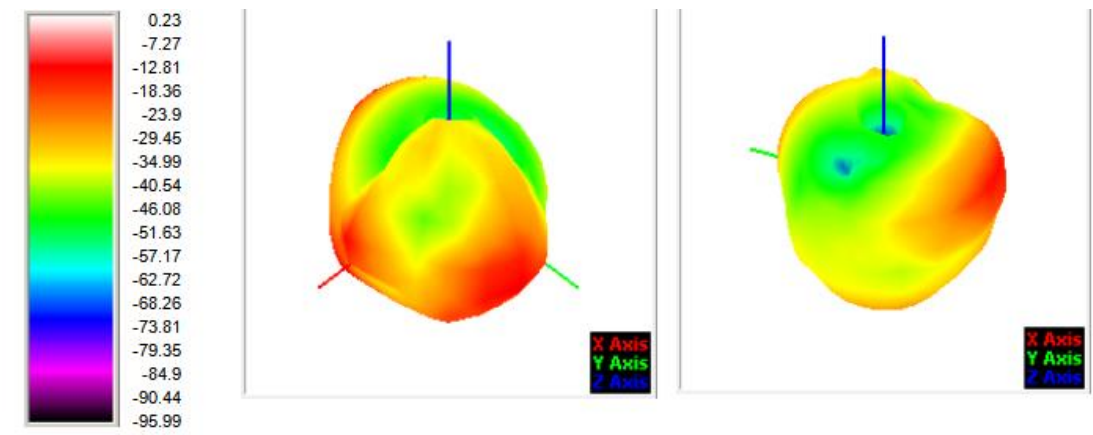
FDD-B4



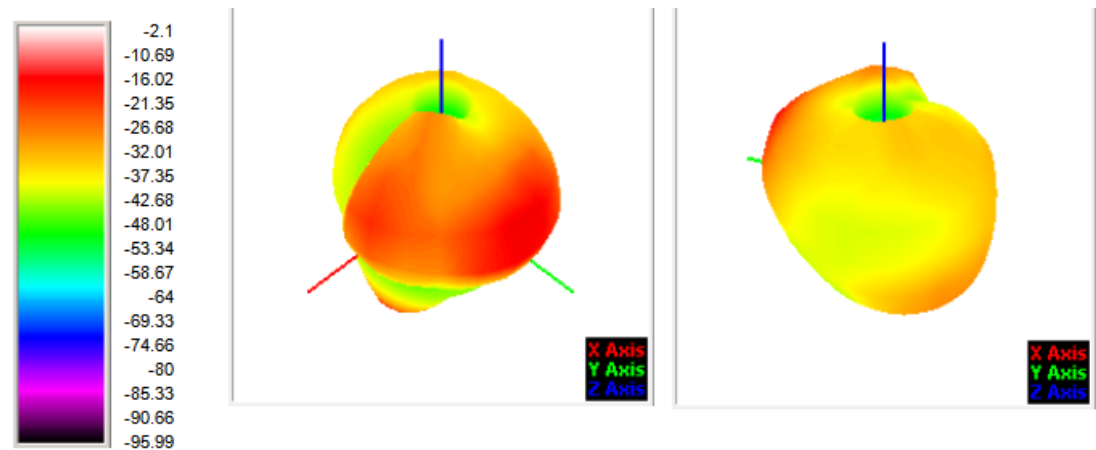
FDD-B5



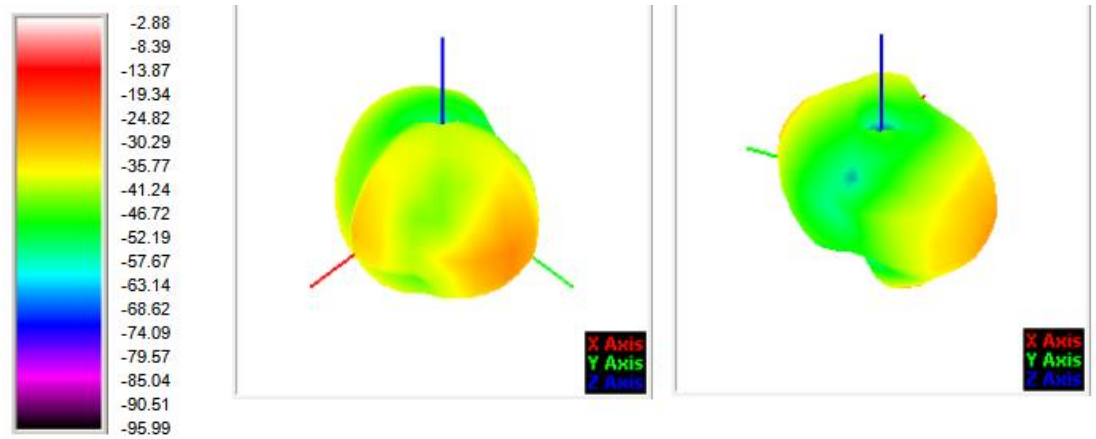
FDD-B7



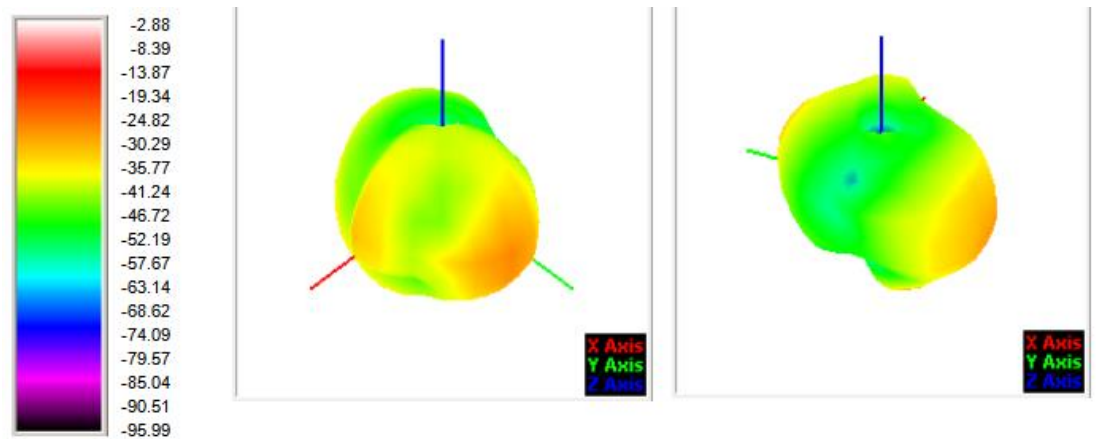
FDD-B8



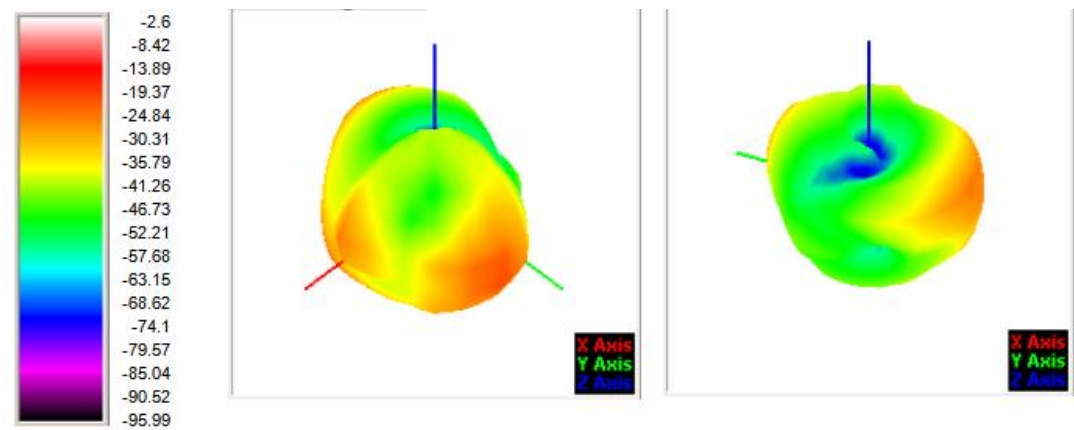
FDD-B12



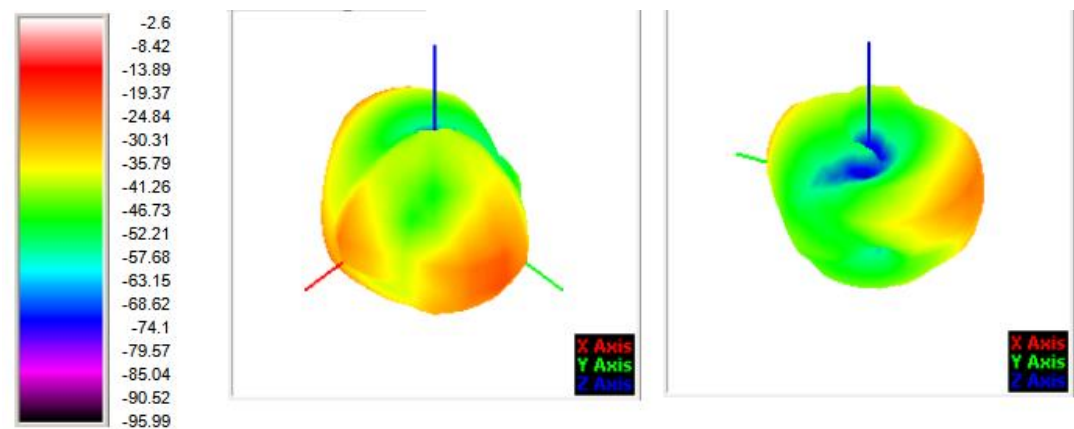
FDD-B17



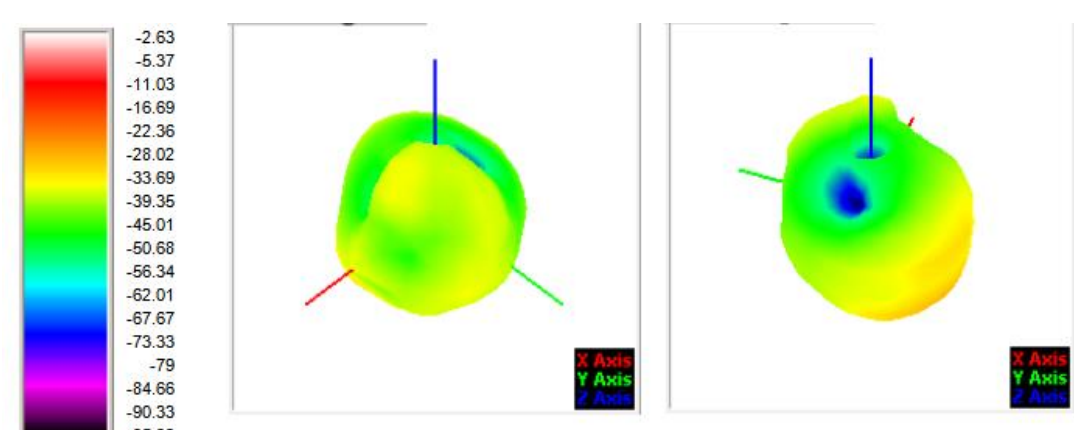
FDD-B18



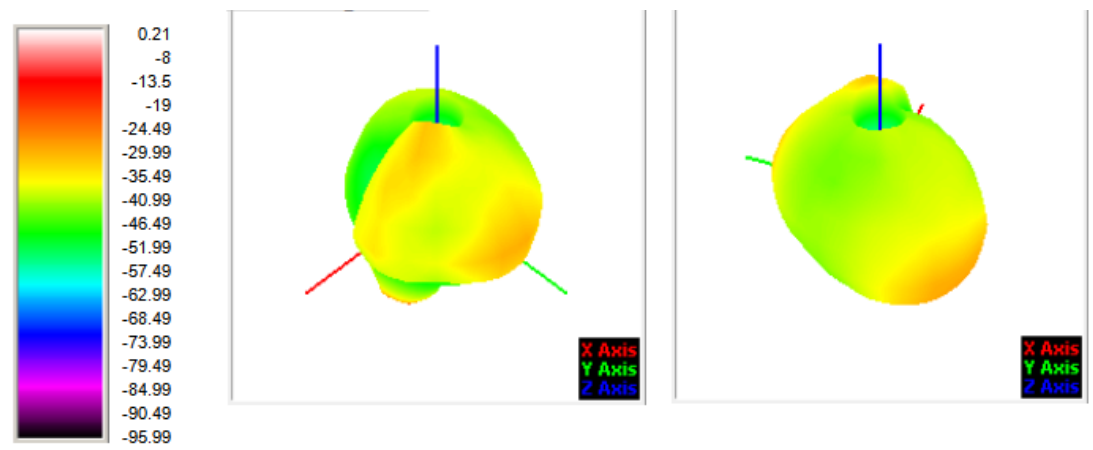
FDD-B19



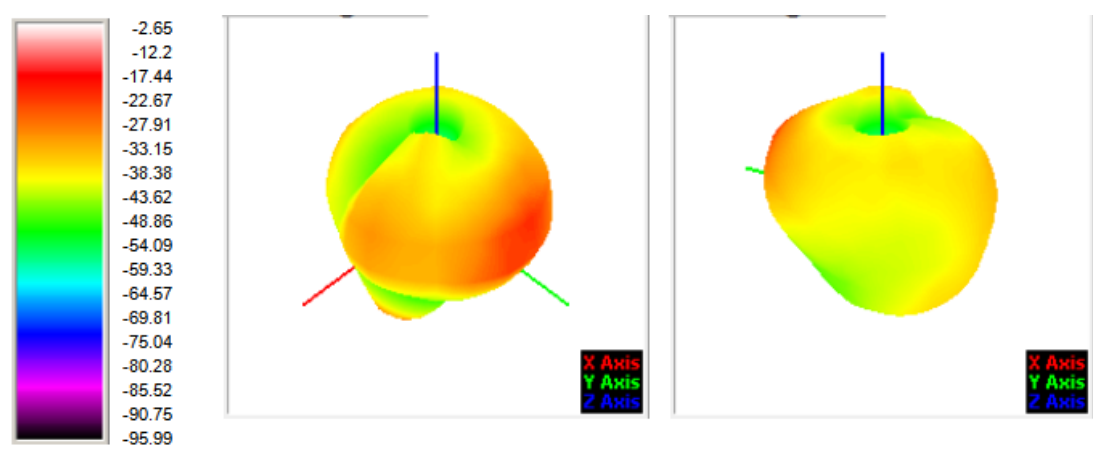
FDD-B20



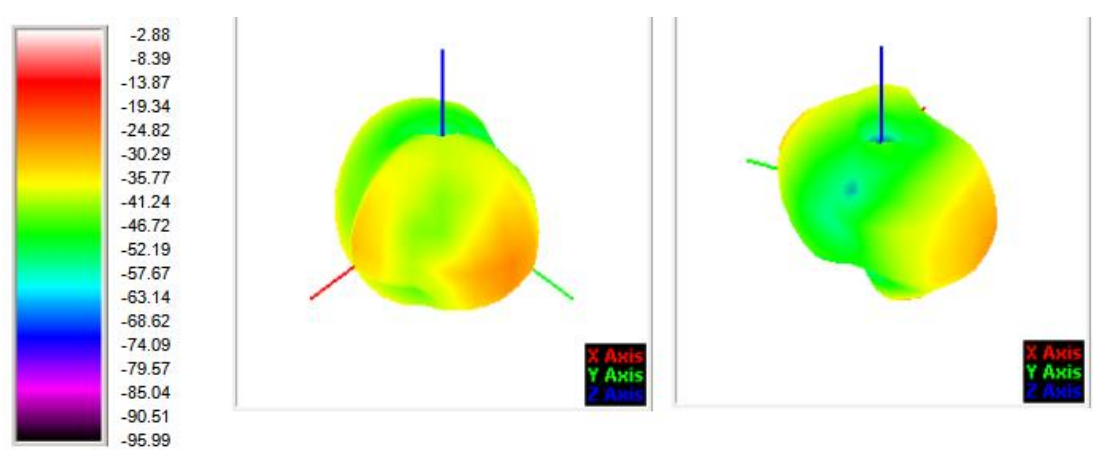
FDD-B25



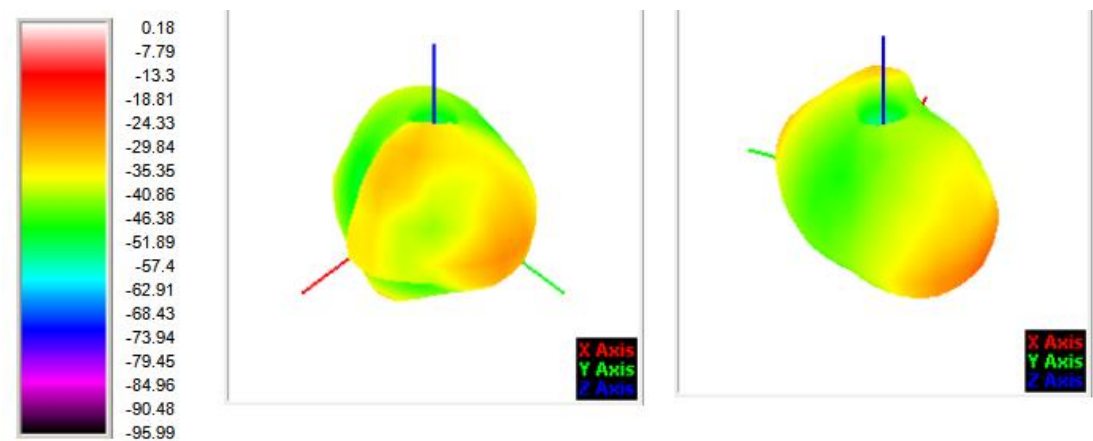
FDD-B26



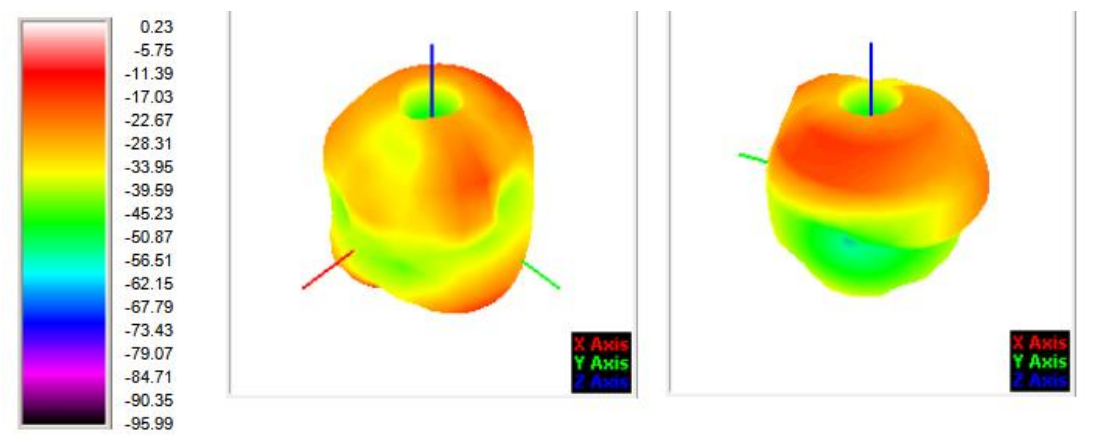
FDD-B28



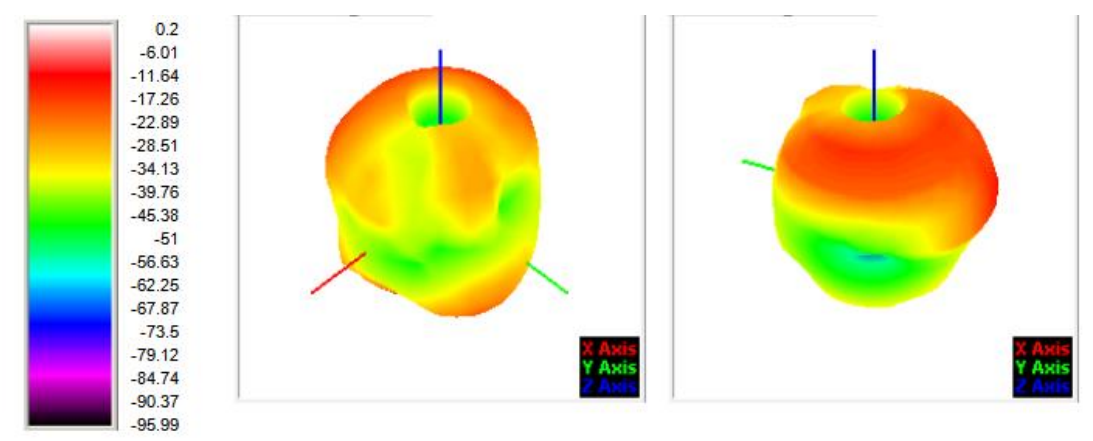
FDD-B66



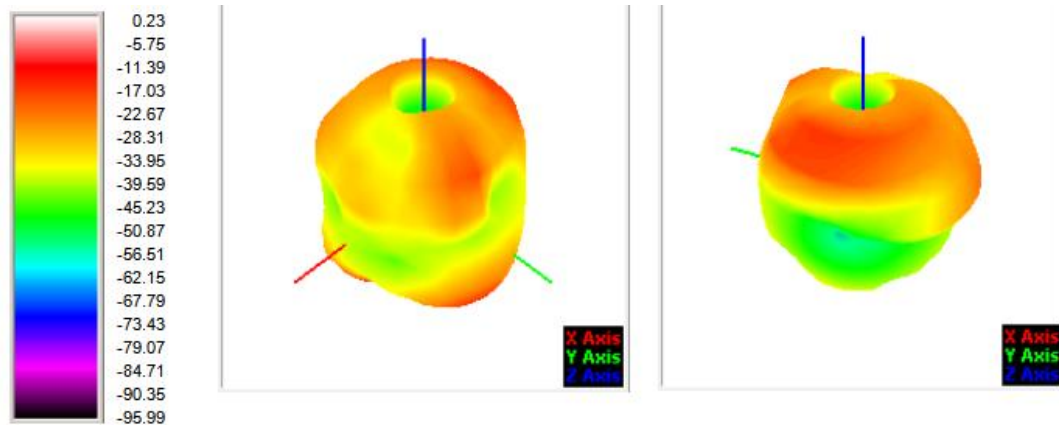
TDD-B38



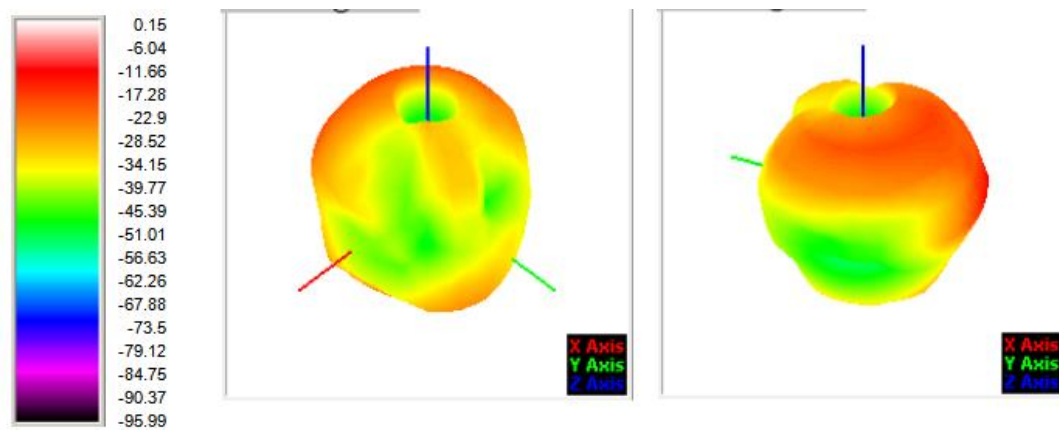
TDD-B40



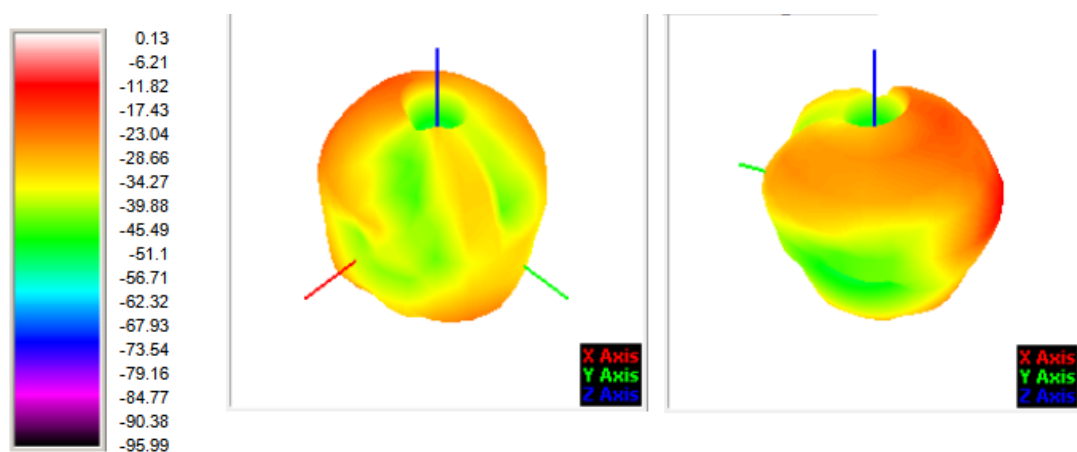
TDD-B41



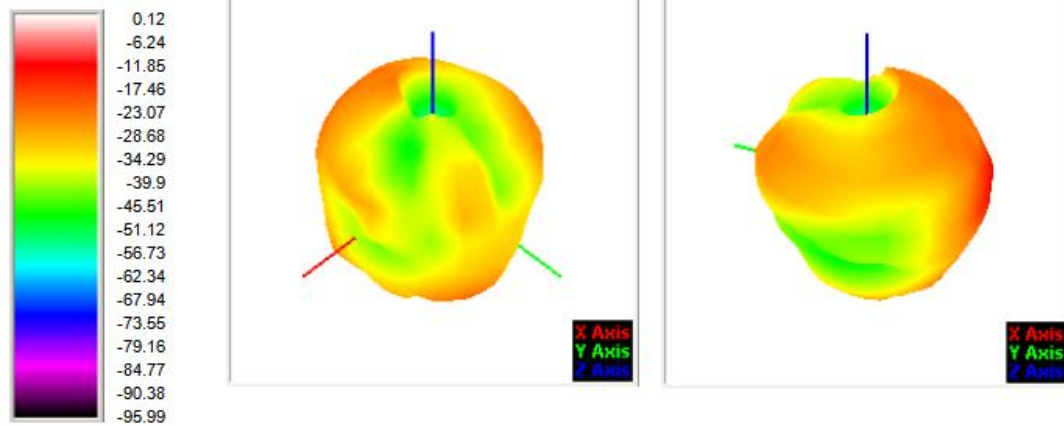
WIFI/BT-2.4G



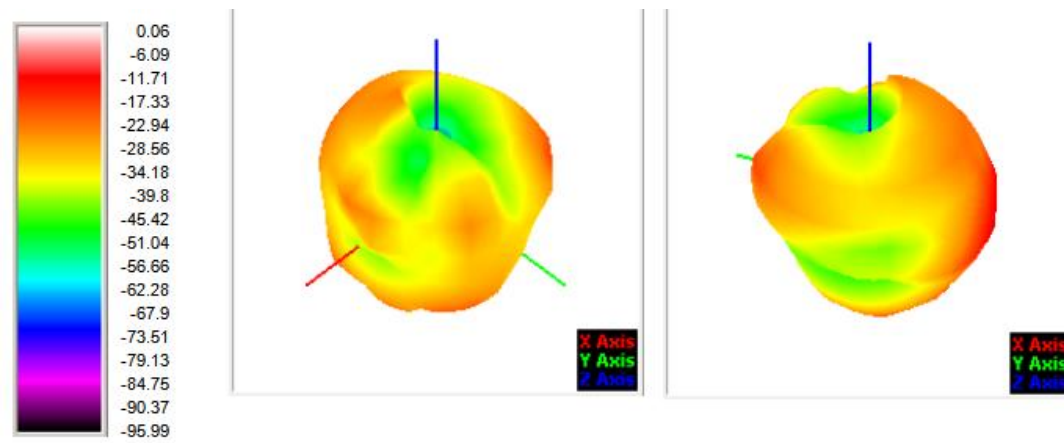
WIFI-5.1G



WIFI-5.8G



GPS-L1



9.Introduction to Antenna Information

S165	
Antenna type and frequency band	MAIN ANTENNA(<u>PIFA</u>):2G/3G/4G DIV ANTENNA(<u>PIFA</u>):2G/3G/4G GPS/WIFI/BT ANTENNA(<u>PIFA</u>):L1/2.4GWIFI/5G WIFI/BT
Antenna materia	FPC