

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Project Name: F400

Frequency Band:

CDMA: BC0/BC1

GSM: B2/B3/B5/B8

WCDMA: B1/B2/B4/B5/B8

LTE-TDD: B34/B38/B39/B40/B41

**LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B25/B26/
B28AB/B66**

DATE: 2025-6-9

**3rd Floor, Building 4, No. 387, Huating Road, Langkou Community, Dalang
Sub-district, Longhua District, Shenzhen City**

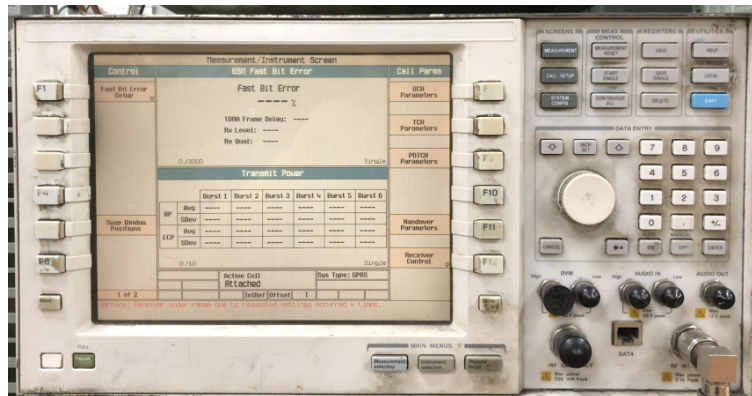
1.Test Project

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

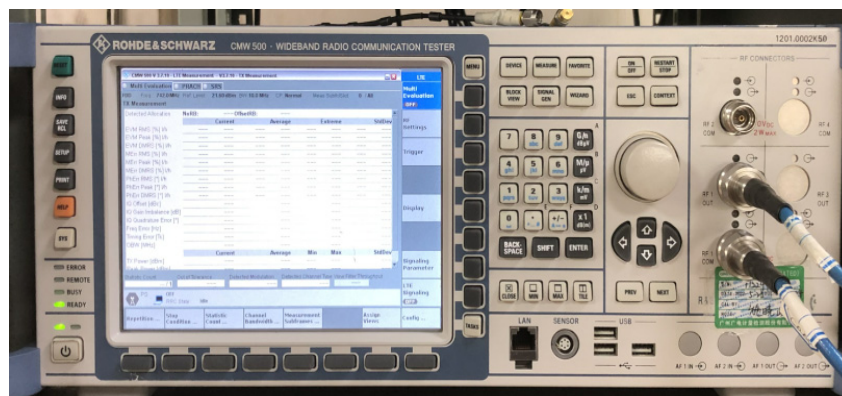
2.Test Equipment



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

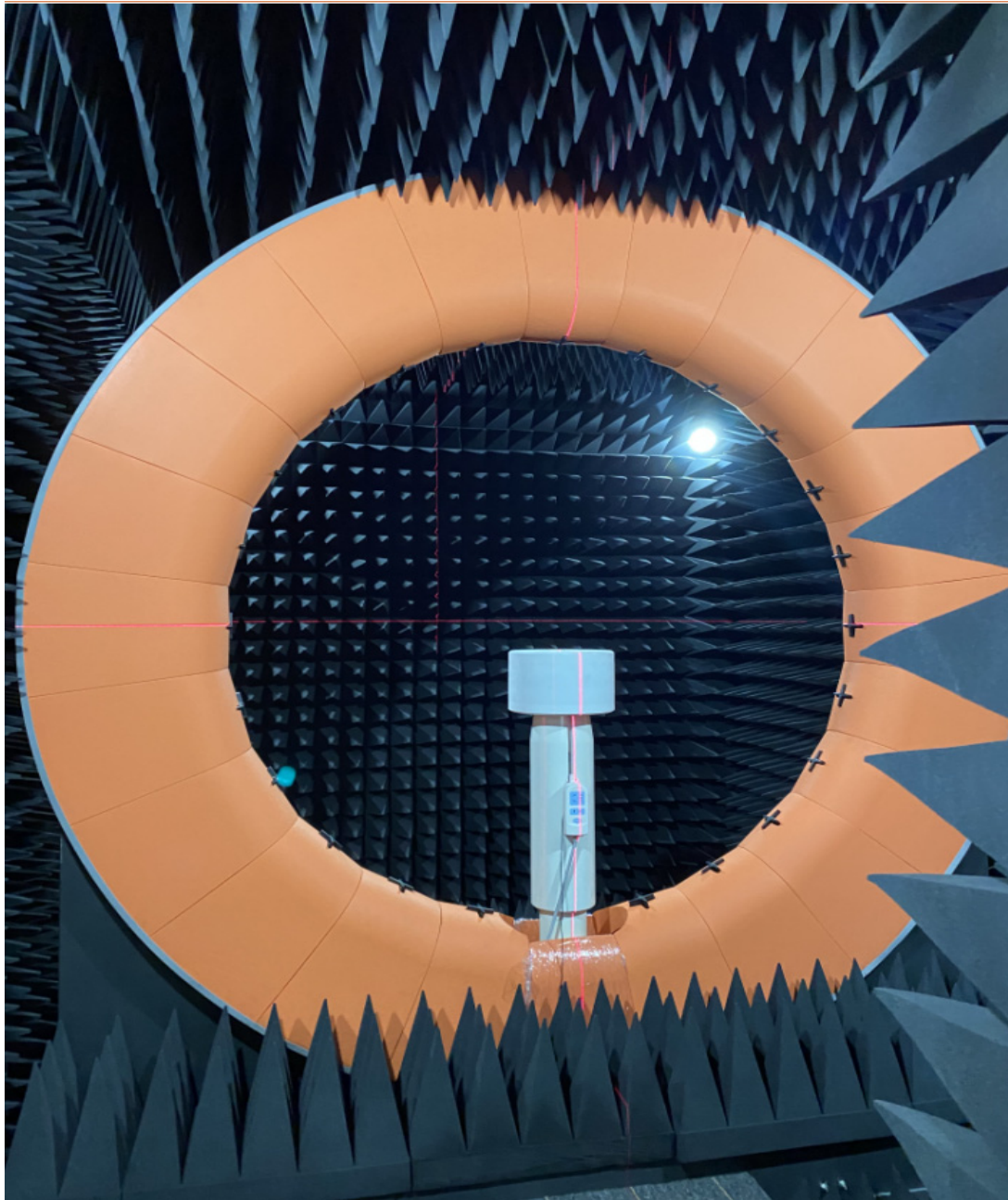


Agilent 8960 (2G/3G Test Equipment)



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

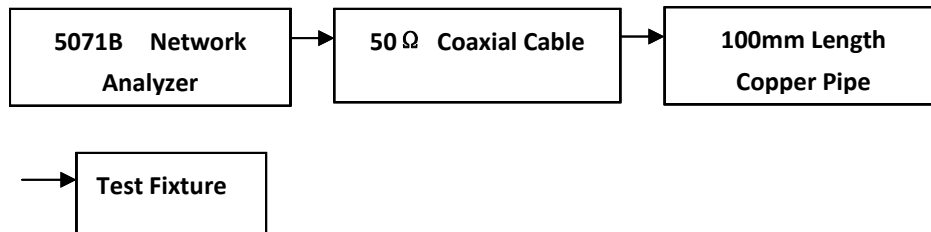
3. Test Environment



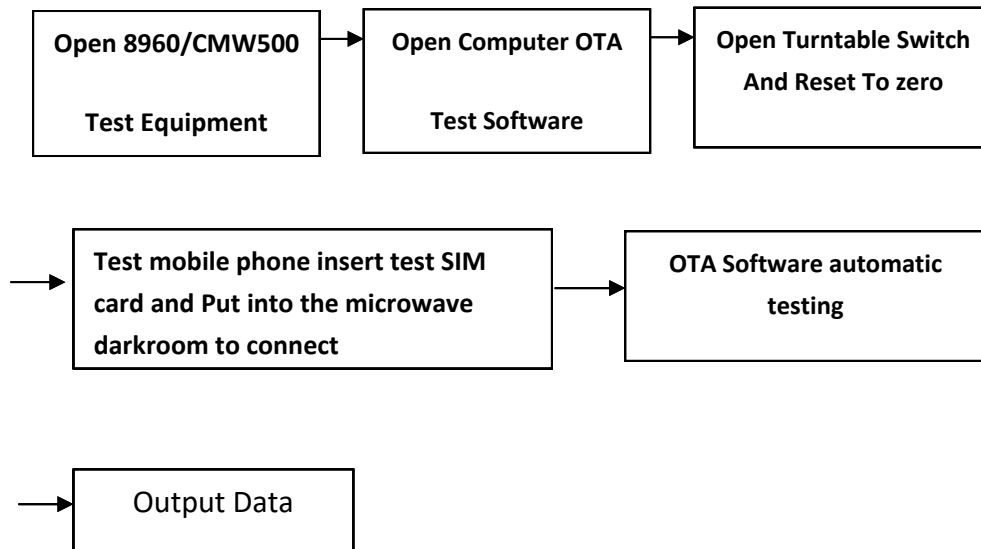
Microwave Anechoic Chamber

4. Test Steps

Passive VSWR/RL Test Steps:



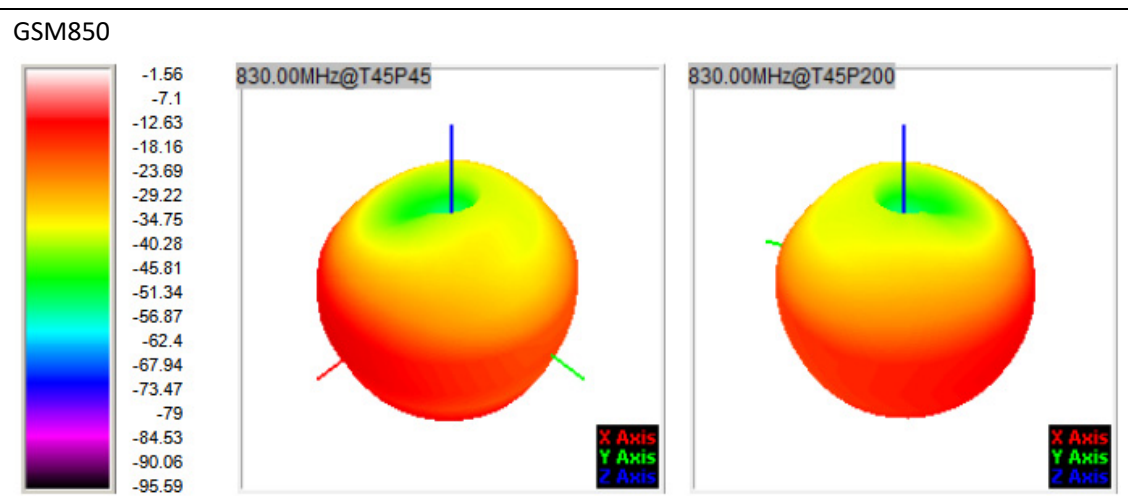
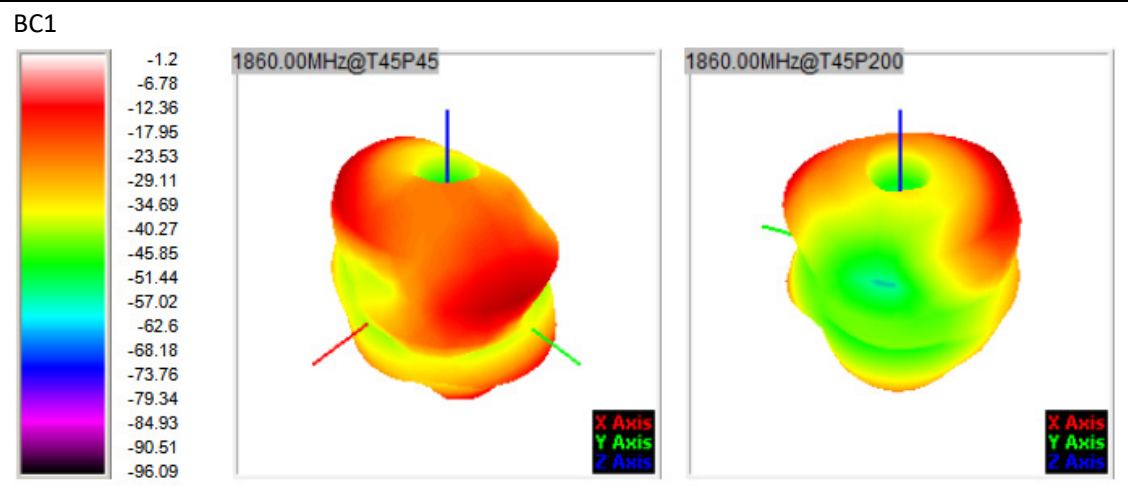
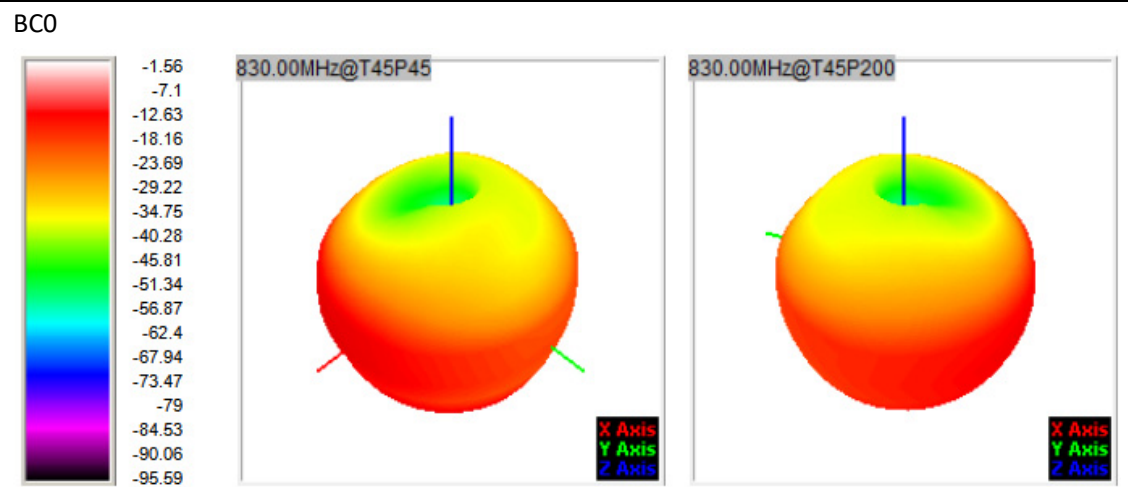
Active TRP/TIS Test Steps:



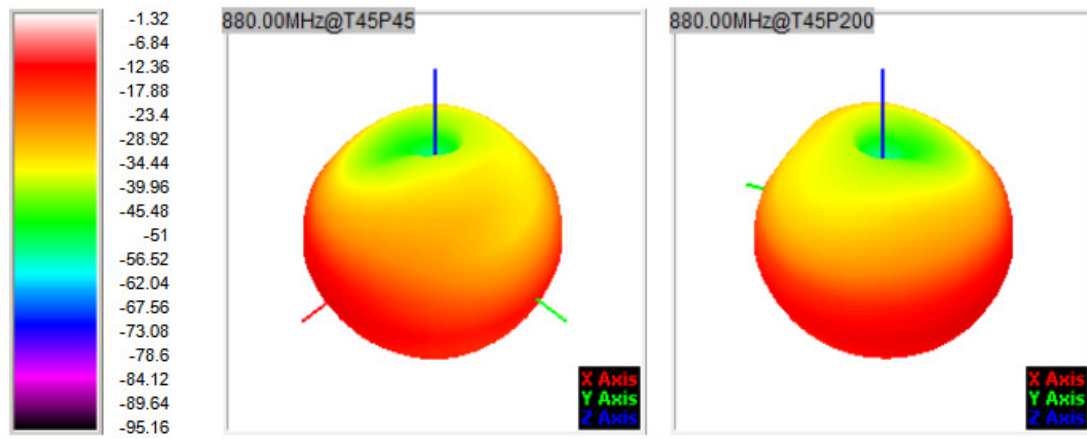
5. Antenna Gain

Band	Max Gain (dBi)	Band	Max Gain (dBi)
BC0(815-894MHz)	-1.56	LTE-B12 (700-746MHz)	-1.85
BC1(1850-1990MHz)	-1.2	LTE-B13 (700-746MHz)	-1.85
GSM850 (824-894MHz)	-1.56	LTE-B17 (704-746MHz)	-1.85
GSM900 (880-960MHz)	-1.32	LTE-B18 (815-875MHz)	-1.56
DCS1800 (1710-1880MHz)	-0.85	LTE-B19 (830-890MHz)	-1.56
PCS1900 (1850-1990MHz)	-1.2	LTE-B20 (791-862MHz)	-1.56
WCDMA1 (1920-2170MHz)	-0.85	LTE-B25 (1850-1995MHz)	-1.2
WCDMA2 (1850-1900MHz)	-1.2	LTE-B26 (814-890MHz)	-1.56
WCDMA4 (1710-2155MHz)	-0.85	LTE-B28 (703-803MHz)	-1.85
WCDMA5 (824-894MHz)	-1.56	LTE-B66 (1710-2200MHz)	-0.85
WCDMA8 (880-960MHz)	-1.32	LTE-B38 (2570-2620MHz)	-0.62
LTE-B1 (1920-2170MHz)	-0.85	LTE-B40(2300-2400MHz)	-1.26
LTE-B2 (1850-1990MHz)	-1.2	LTE-B41 (2496-2690MHz)	-0.62
LTE-B3 (1710-1880MHz)	-0.85		
LTE-B4 (1710-2155MHz)	-0.85	Bluetooth (2400-2483.5MHz)	1.45
LTE-B5 (824-894MHz)	-1.56	WIFI-2.4G (2400-2495MHz)	1.45
LTE-B7 (2500-2690MHz)	-0.62	WIFI-5.8G (5.15-5.83GHz)	0.5
LTE-B8 (880-960MHz)	-1.32		

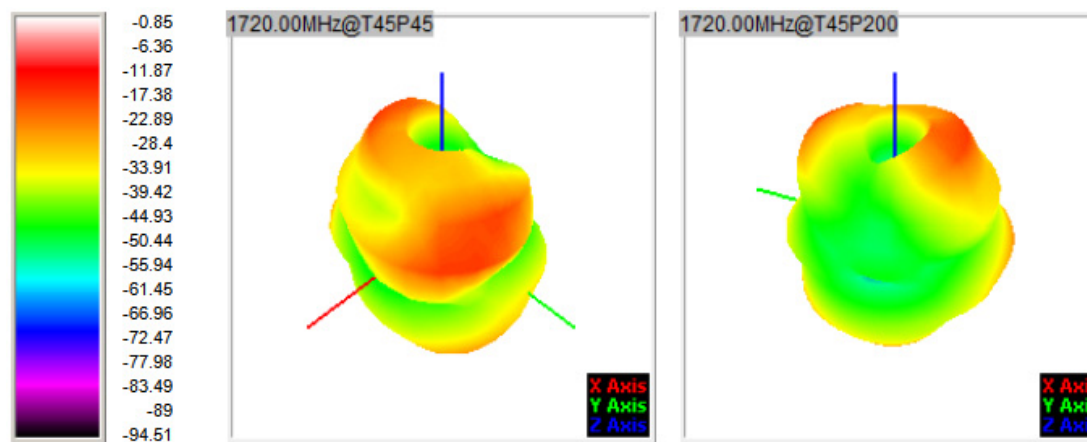
6. 3D Lobe Diagram



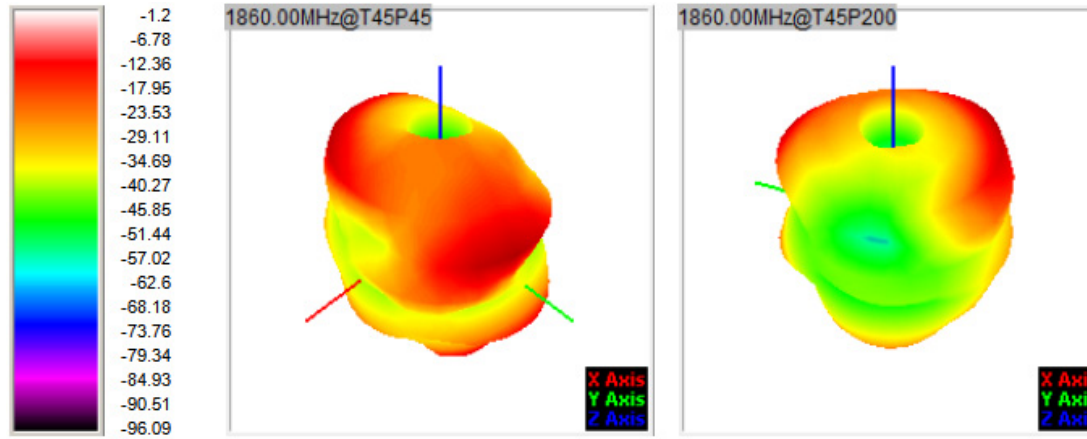
GSM900



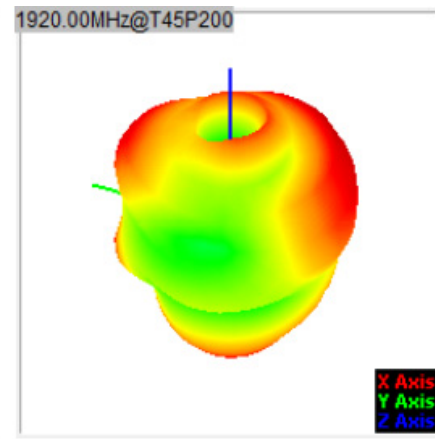
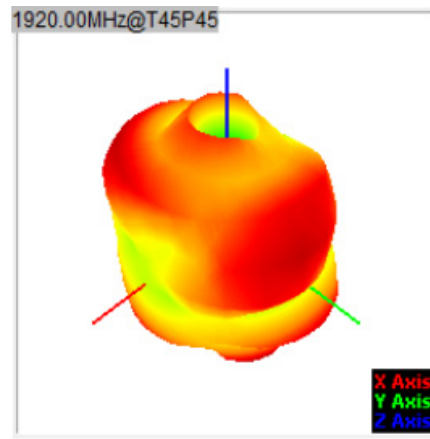
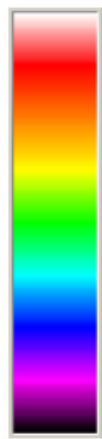
DSC1800



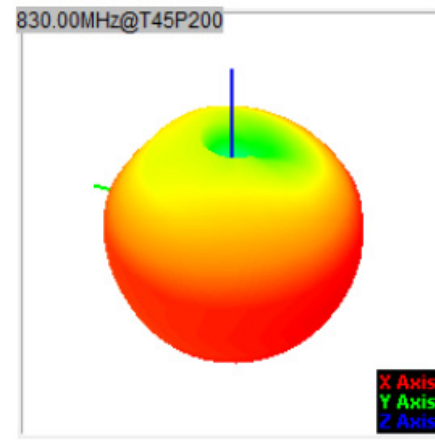
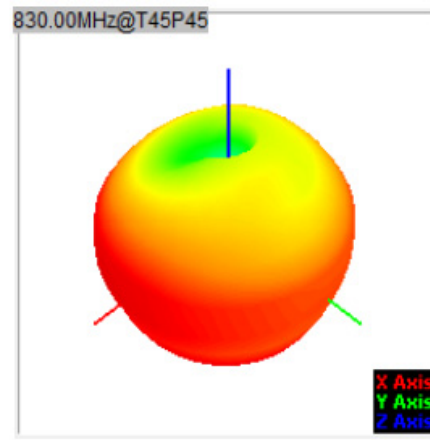
PCS1900



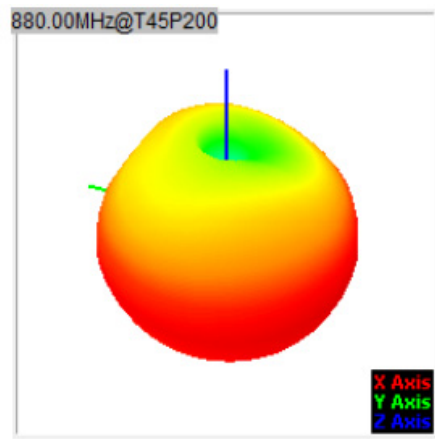
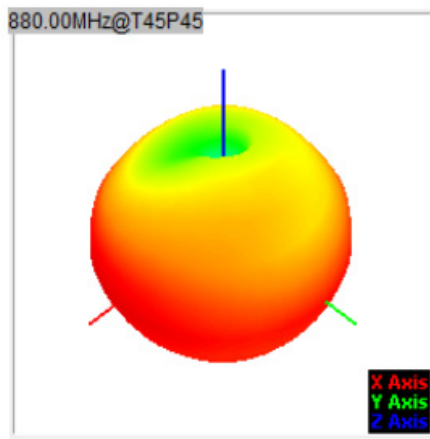
WCDMA 2100



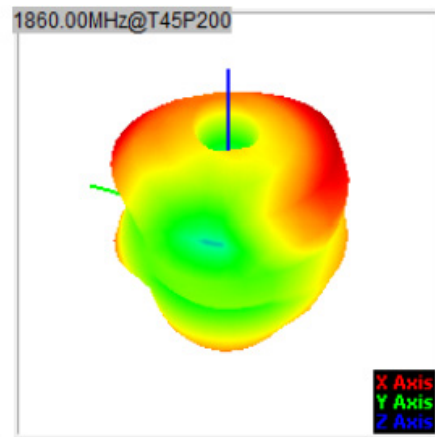
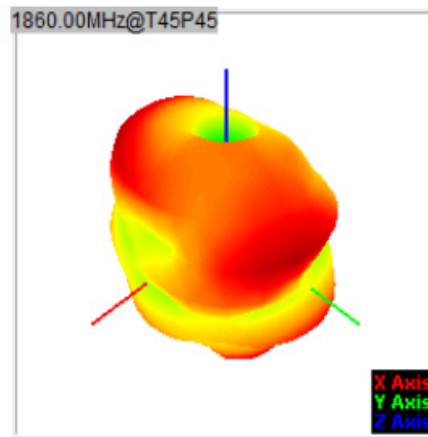
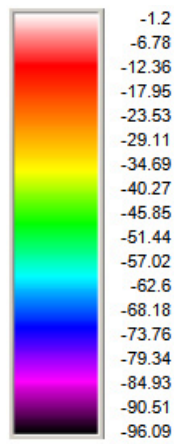
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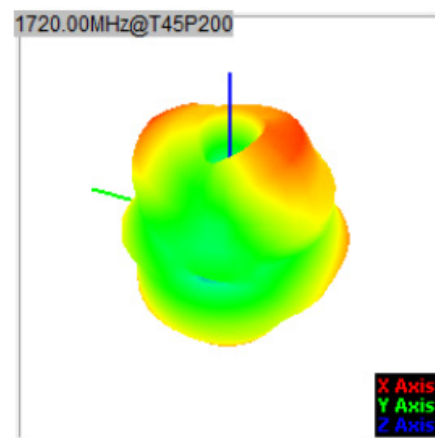
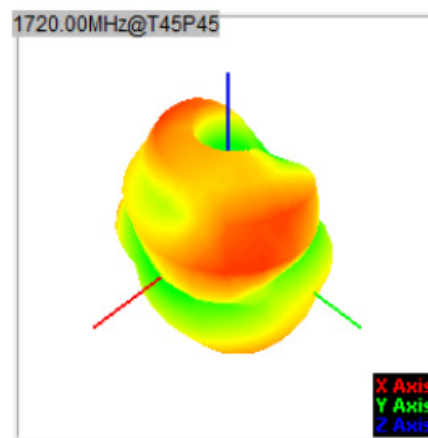
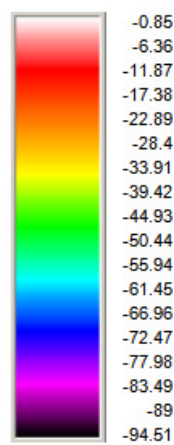
WCDMA 900



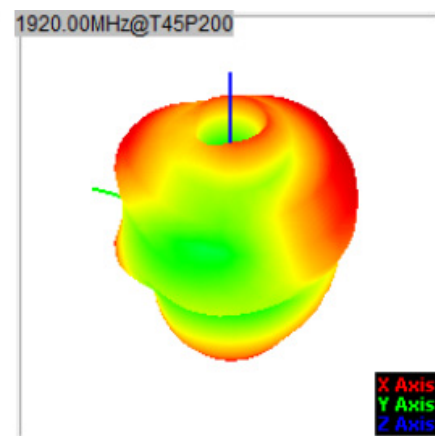
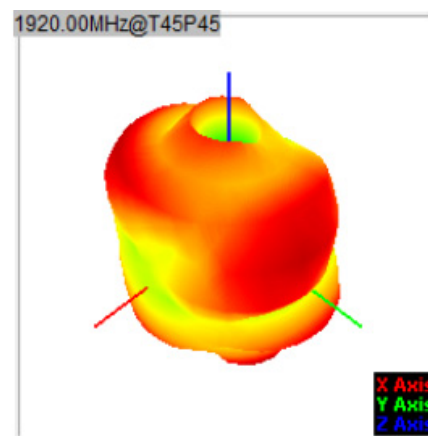
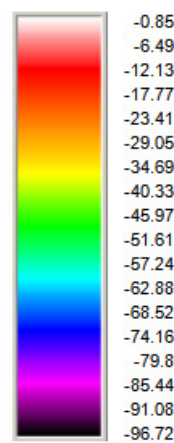
WCDMA 1900



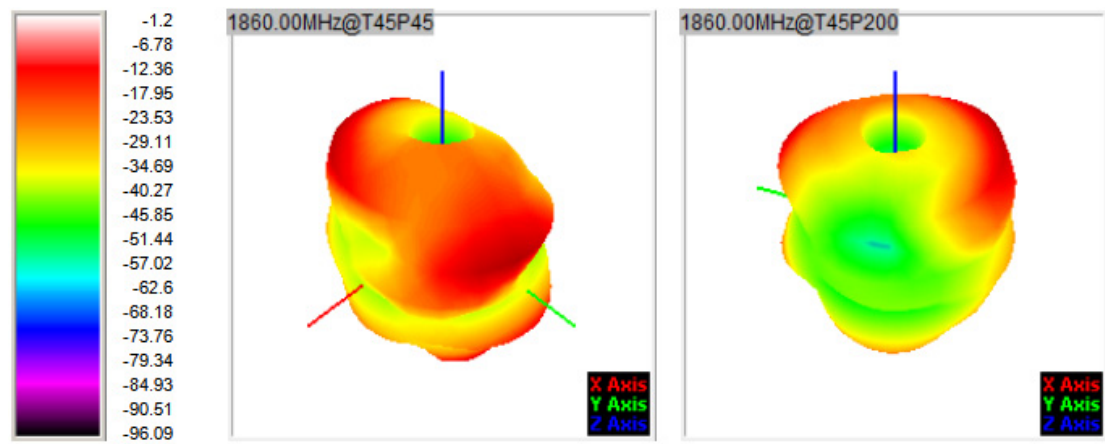
WCDMA 1700



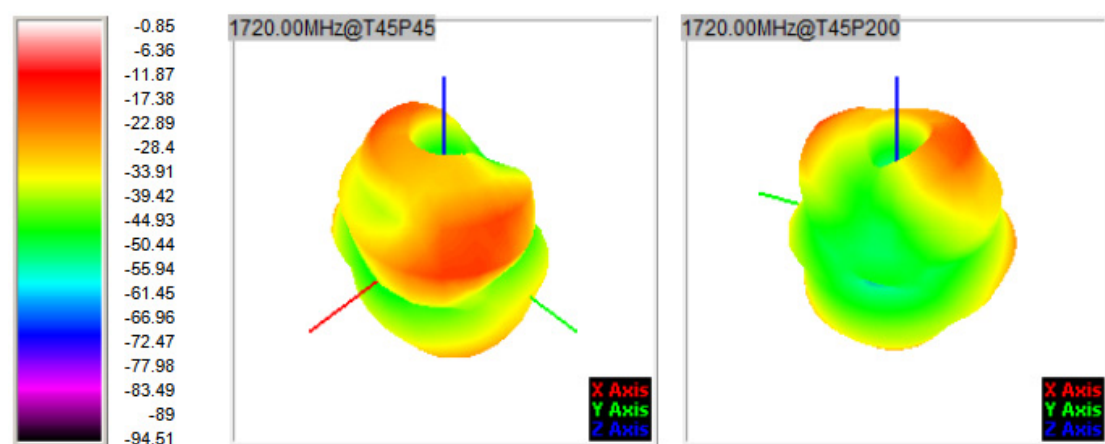
FDD-B1



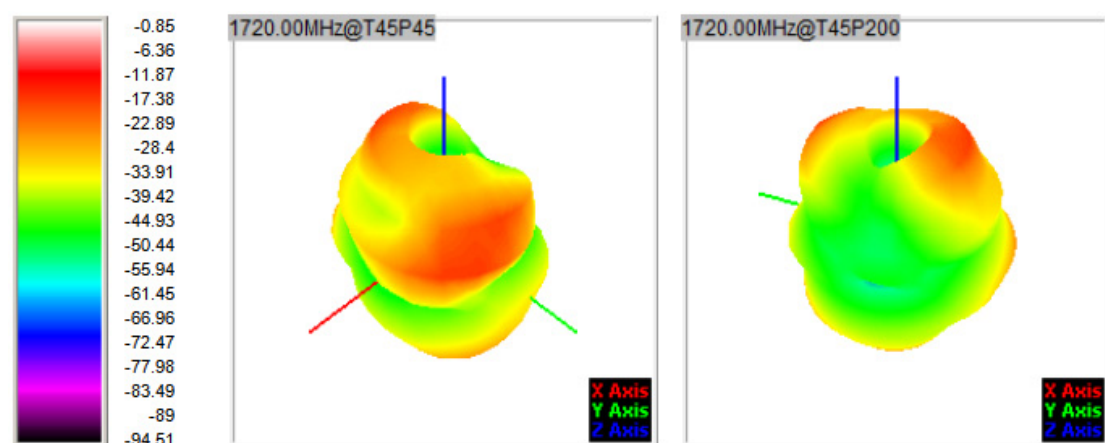
FDD-B2



FDD-B3



FDD-B4

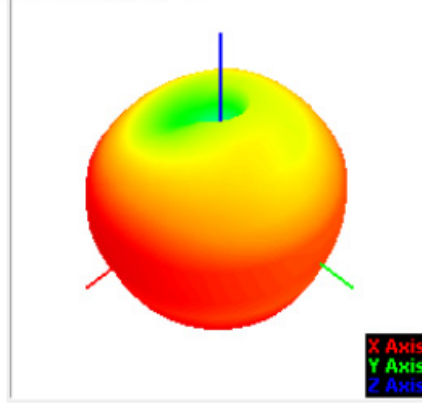


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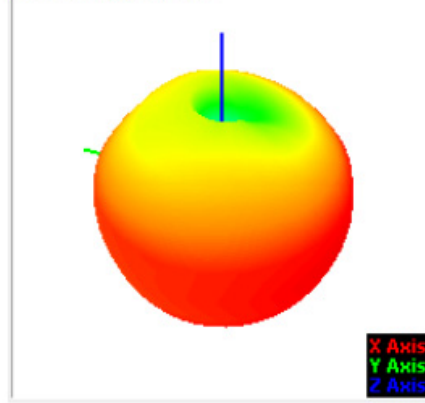


-1.56
-7.1
-12.63
-18.16
-23.69
-29.22
-34.75
-40.28
-45.81
-51.34
-56.87
-62.4
-67.94
-73.47
-79
-84.53
-90.06
-95.59

830.00MHz@T45P45



830.00MHz@T45P200

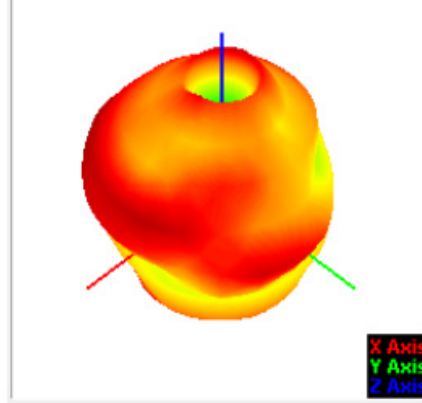


FDD-B7

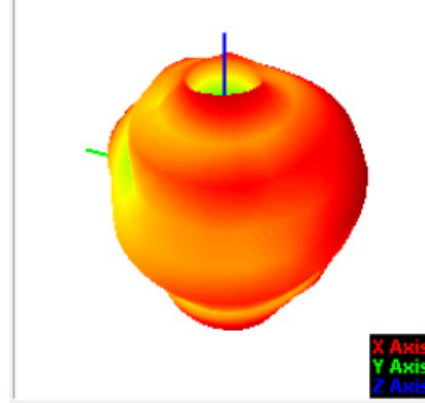


-0.62
-6.26
-11.9
-17.53
-23.17
-28.8
-34.44
-40.07
-45.71
-51.34
-56.98
-62.62
-68.25
-73.89
-79.52
-85.16
-90.79
-96.43

2500.00MHz@T45P45



2500.00MHz@T45P200

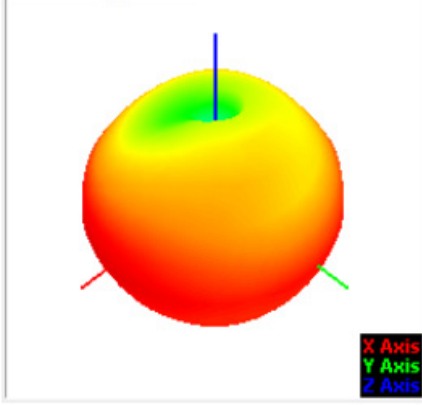


FDD-B8

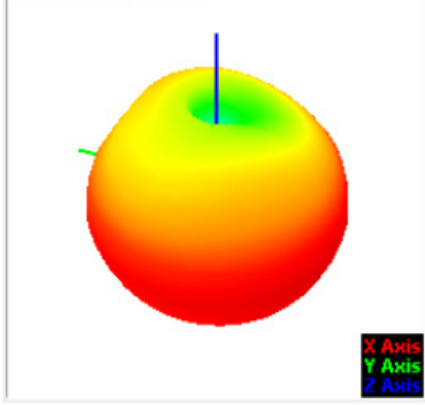


-1.32
-6.84
-12.36
-17.88
-23.4
-28.92
-34.44
-39.96
-45.48
-51
-56.52
-62.04
-67.56
-73.08
-78.6
-84.12
-89.64
-95.16

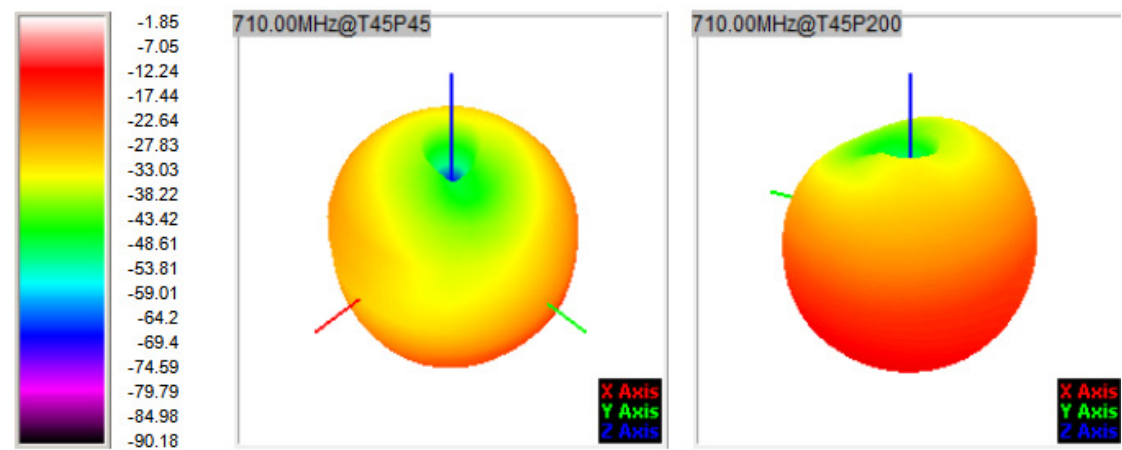
880.00MHz@T45P45



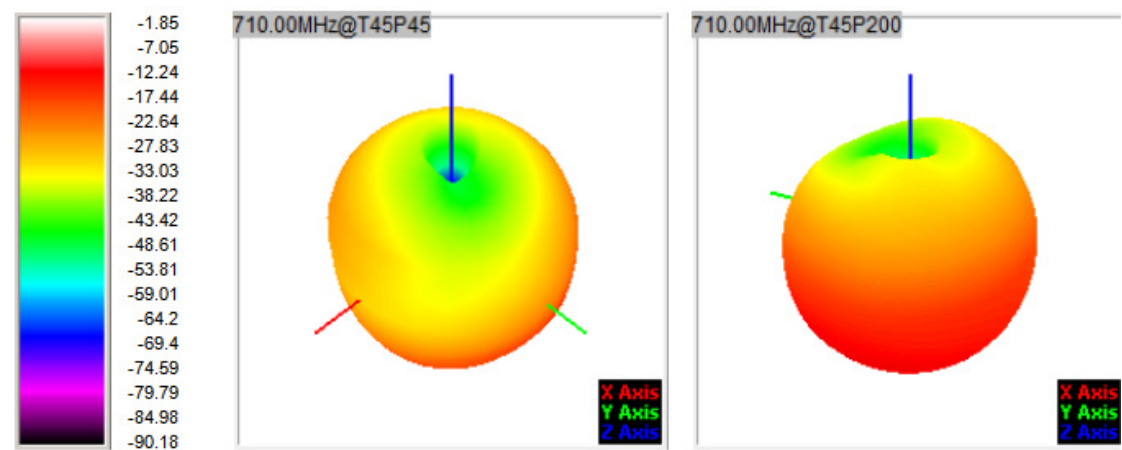
880.00MHz@T45P200



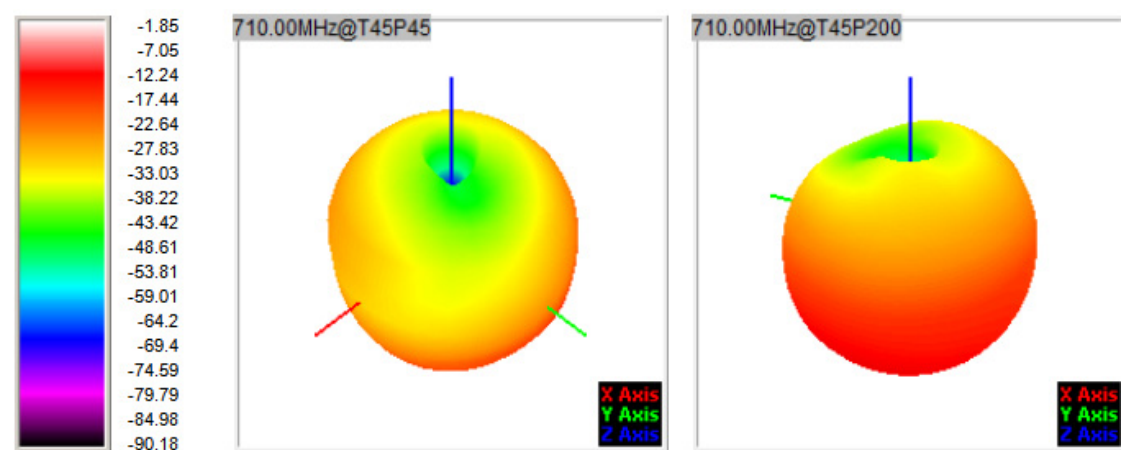
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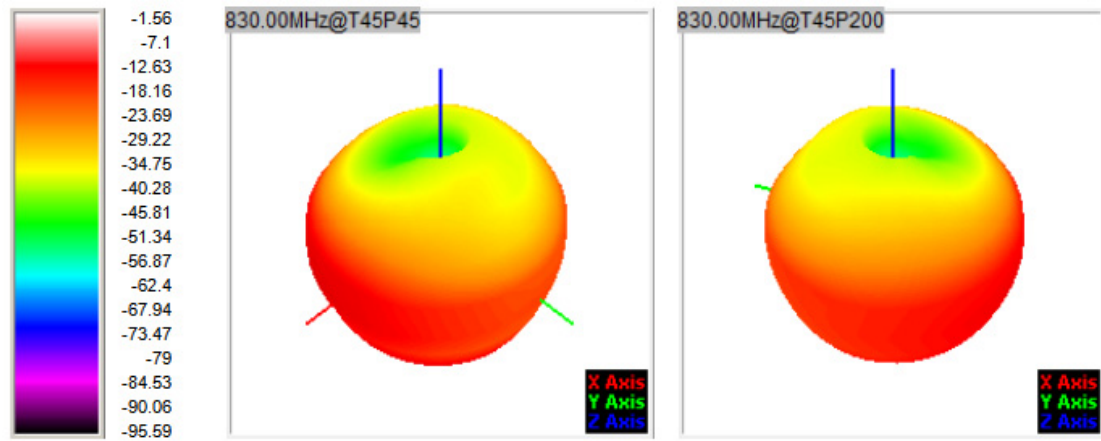
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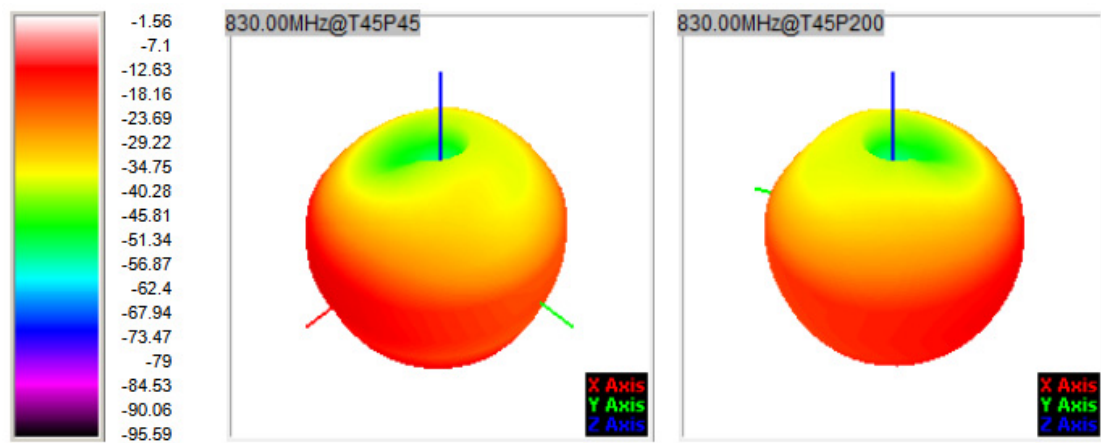
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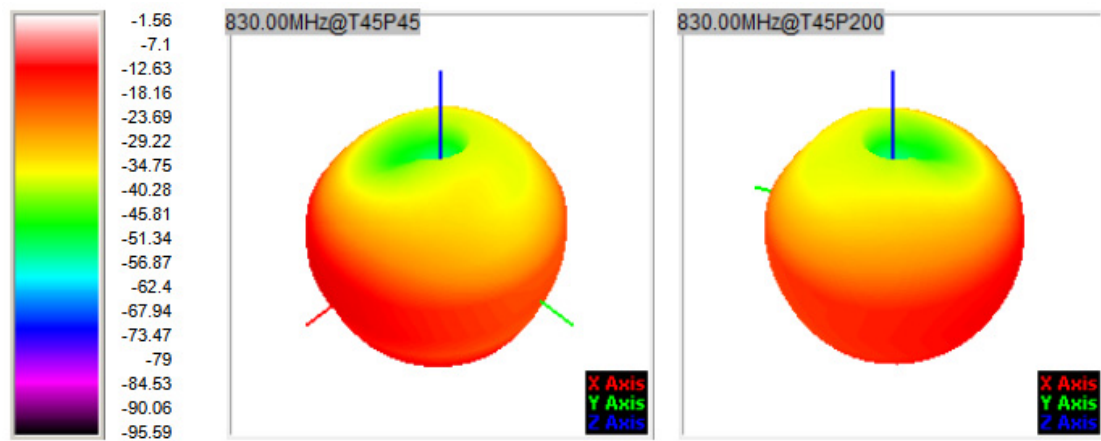
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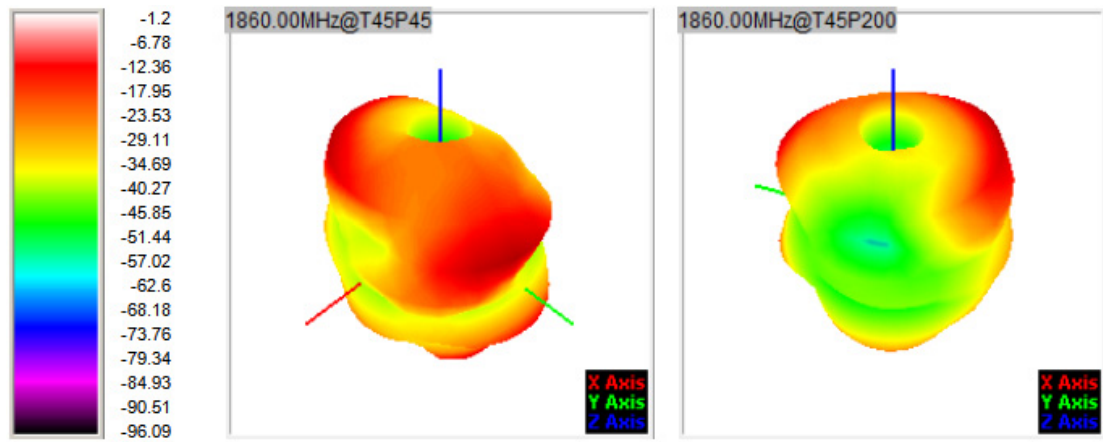
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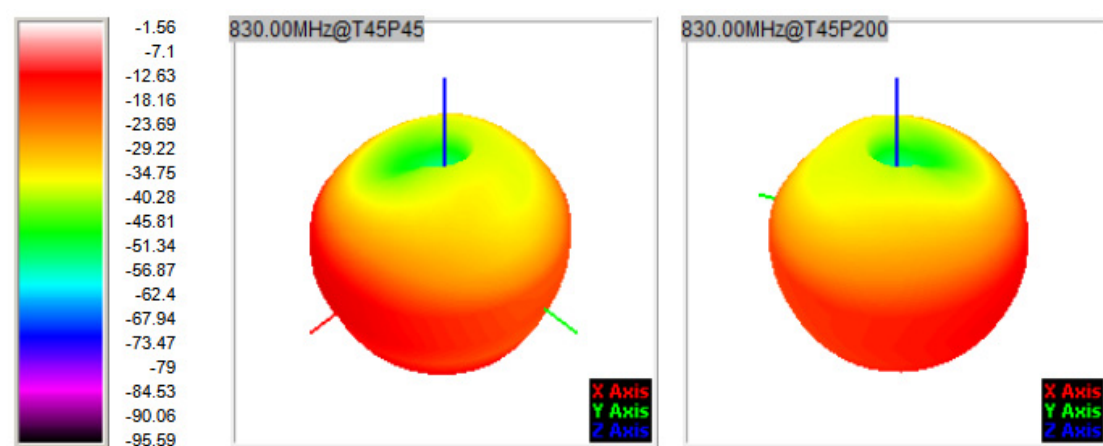
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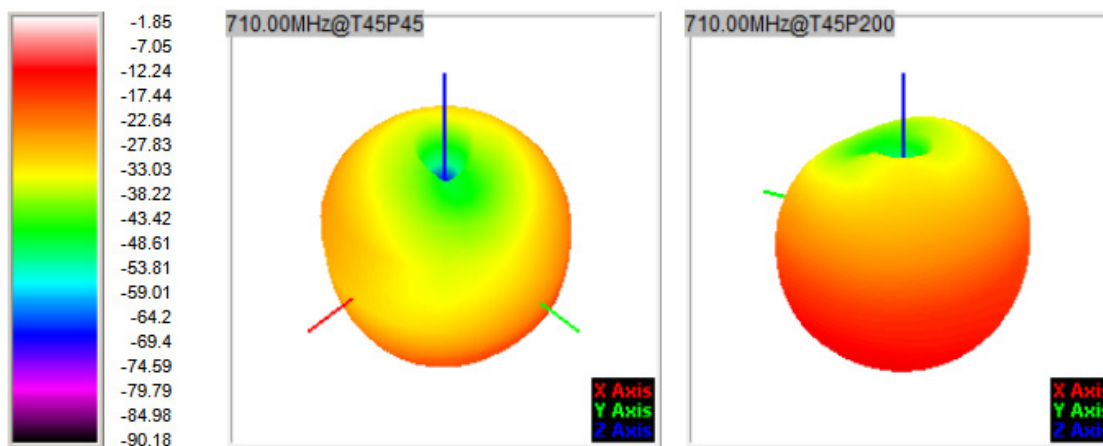
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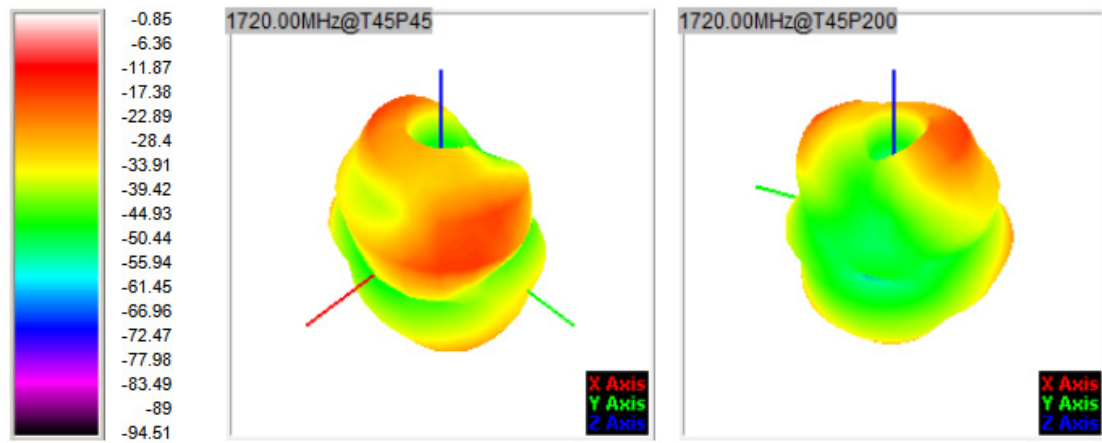
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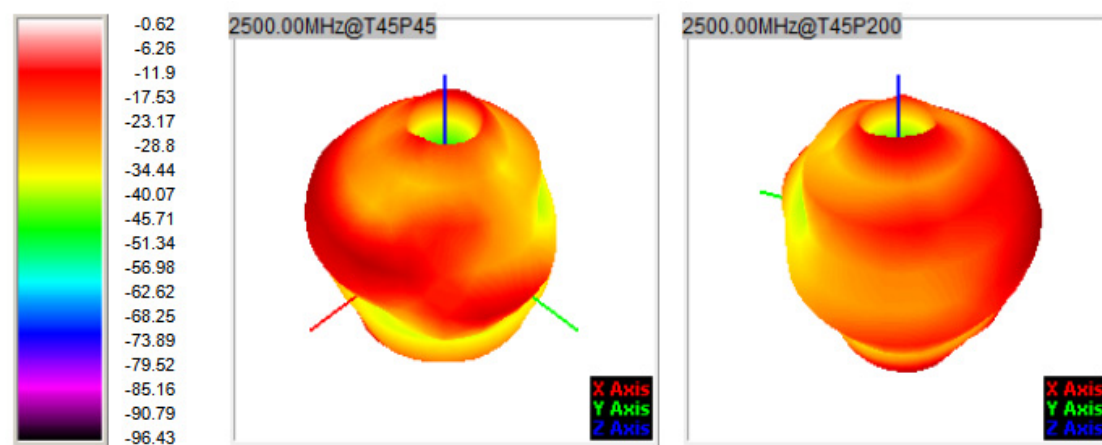
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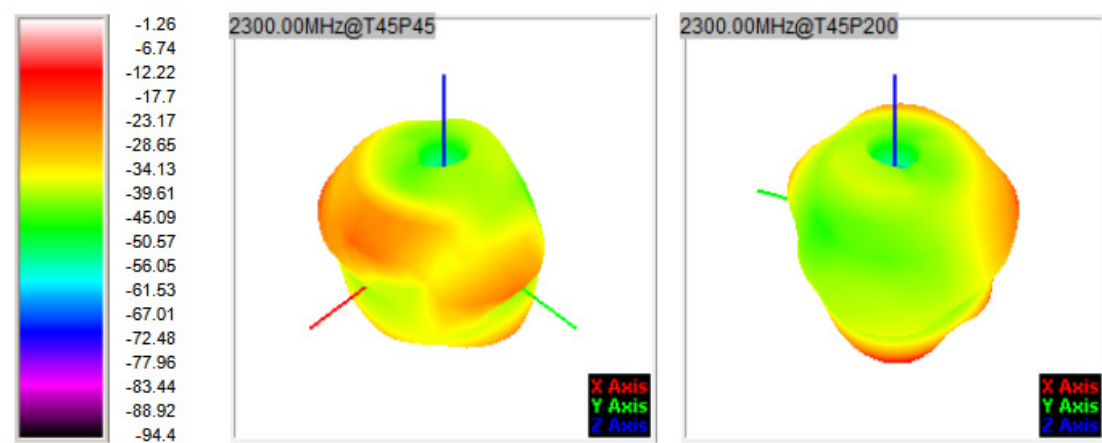
FDD-B66



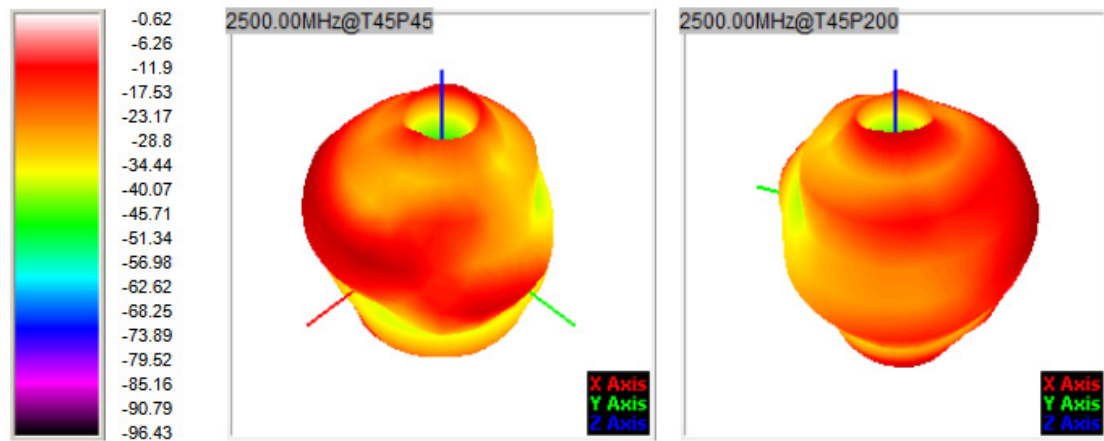
TDD-B38



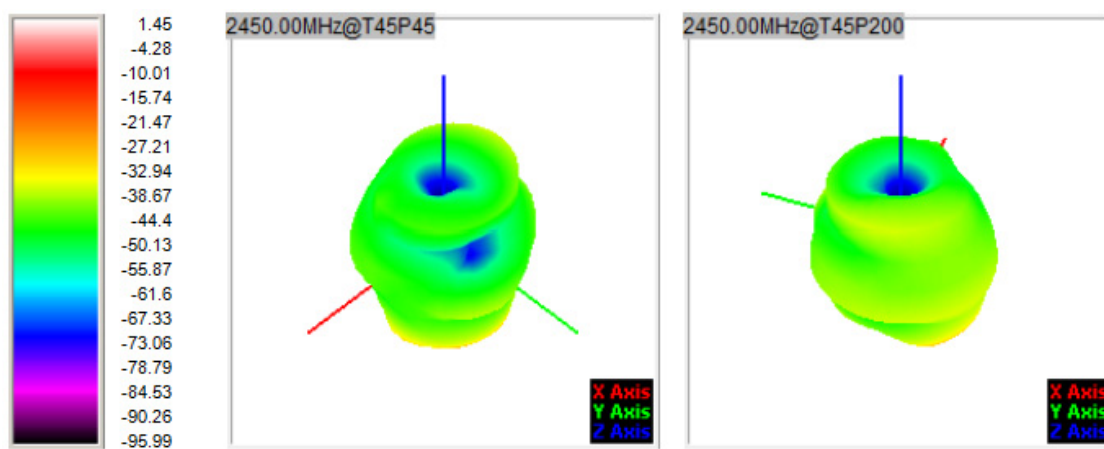
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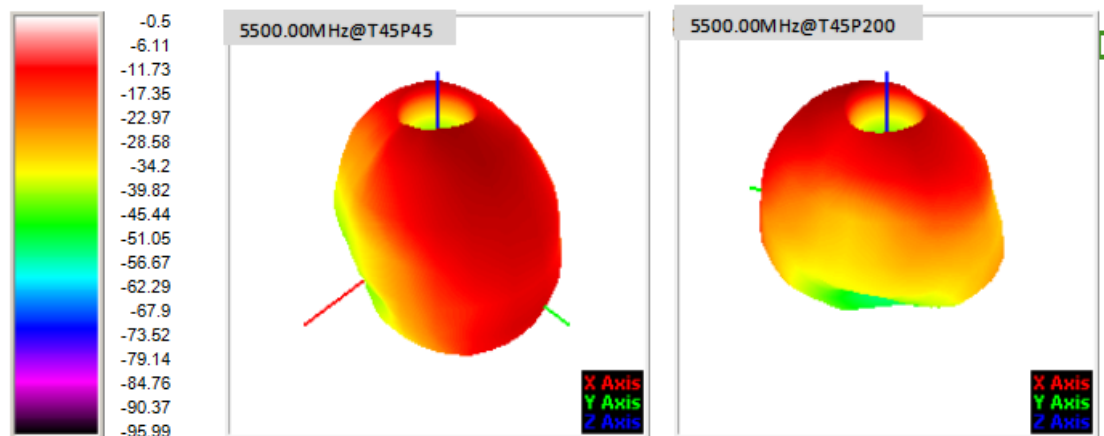
TDD-B41



2.4G WIFI



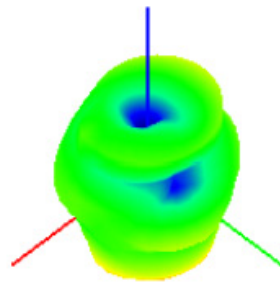
5G WIFI



BT

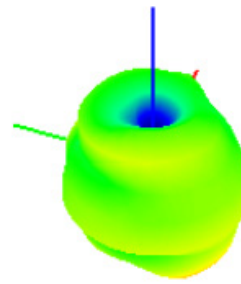


2450.00MHz@T45P45



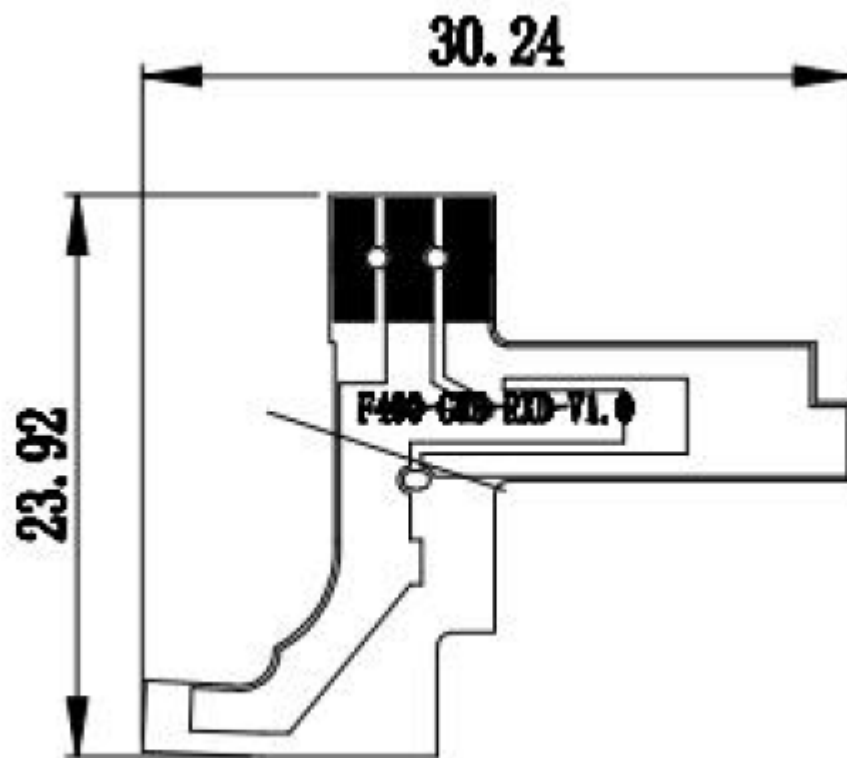
X Axis
Y Axis
Z Axis

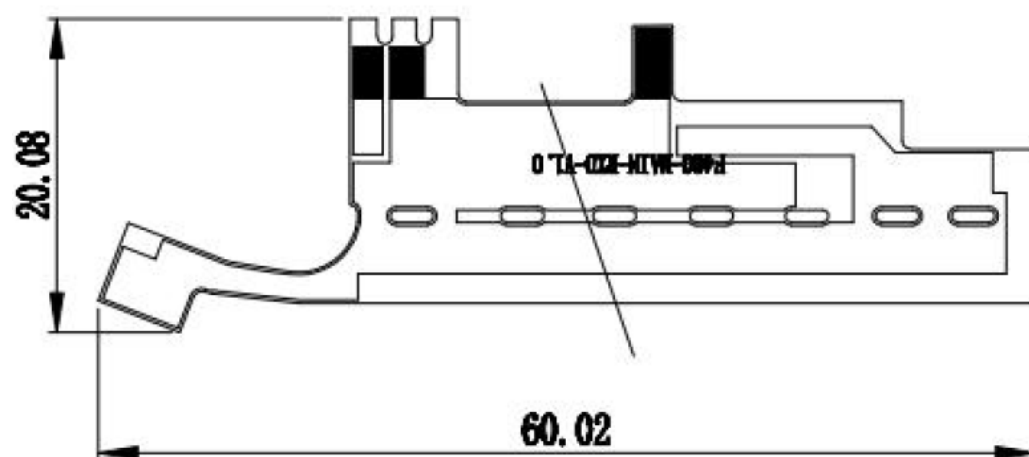
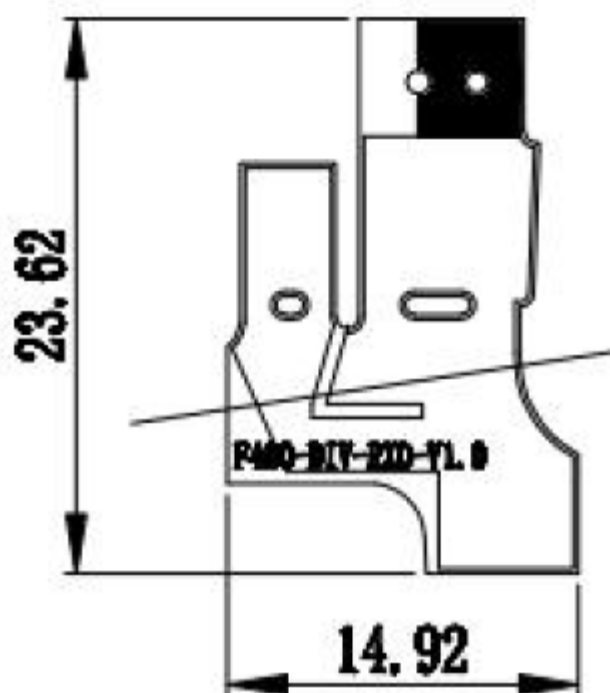
2450.00MHz@T45P200



X Axis
Y Axis
Z Axis

7. Antenna drawing





Unit :mm

8.Introduction to Antenna Information

F400	
Antenna type and frequency band	MAIN ANTENNA(PIFA):2G/3G/4G DIV ANTENNA(PIFA):2G/3G/4G GPS/WIFI/BT ANTENNA(PIFA):L1/2.4GWIFI/5G WIFI/BT
Antenna materia	FPC