

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna test data report

Client: Odu

project: T830

G2/3/5/8+W1/2/5/8+

FDD-1/2/3/5/7/8/18/19/20/26/28+TDD-38/40/41

Engineering: Horsemen (134 1821 8312)

date: 2026-04-13

Factory address: Bao'an District, Shenzhen, Shajing Street, Shayi North

Yongfa Science and Technology Park, the first third floor

1. Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2/3/4G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: SP9500/CMW500/8960 Test Environment: Anechoic Chamber

2. Test Equipment



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



Agilent 8960 (2G/3G Test Equipment)

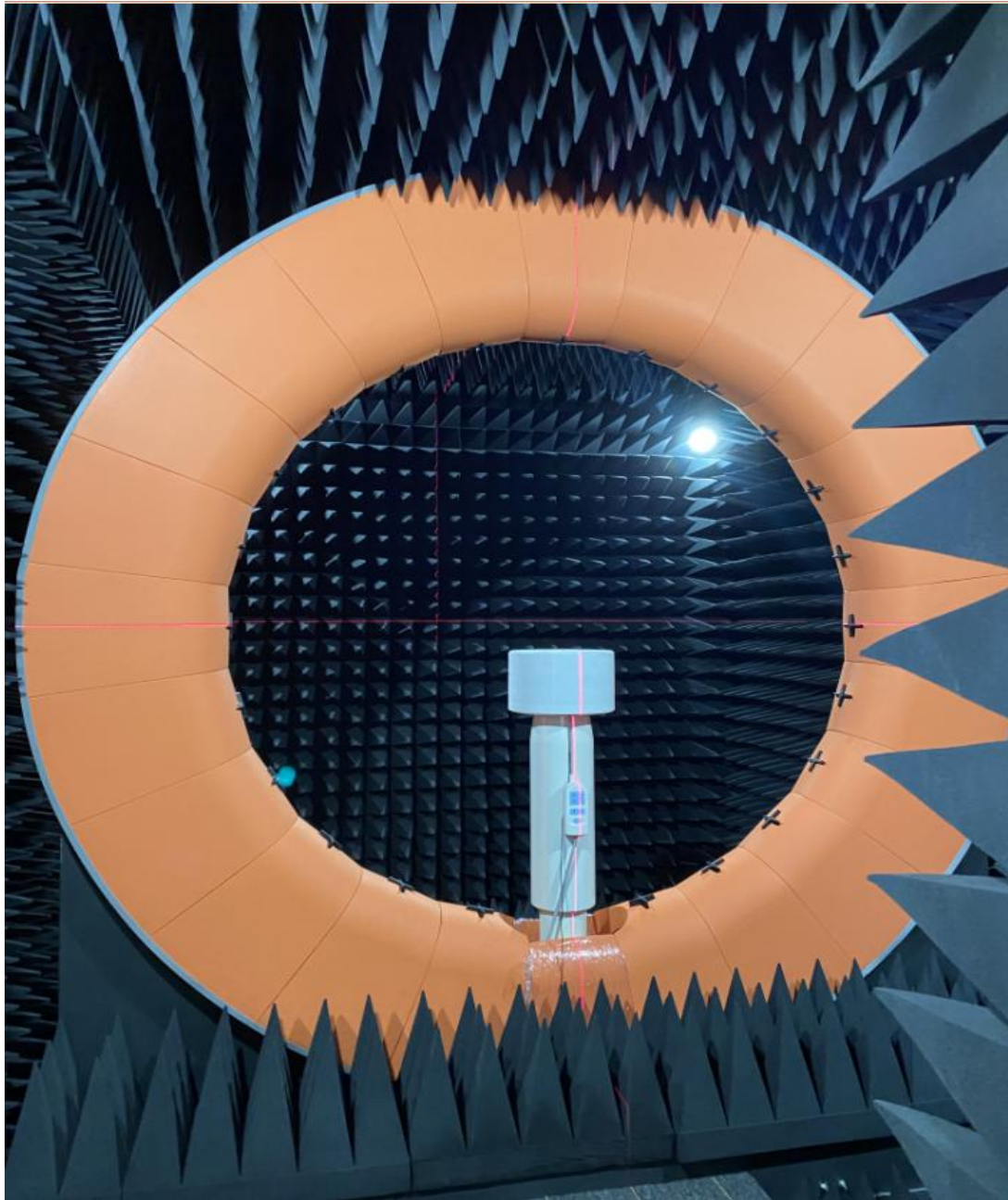


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

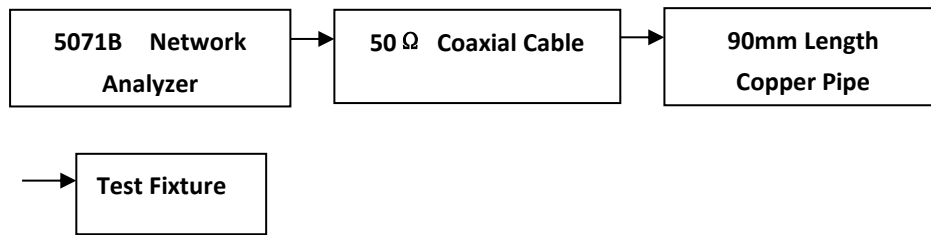
3. TestEnvironment



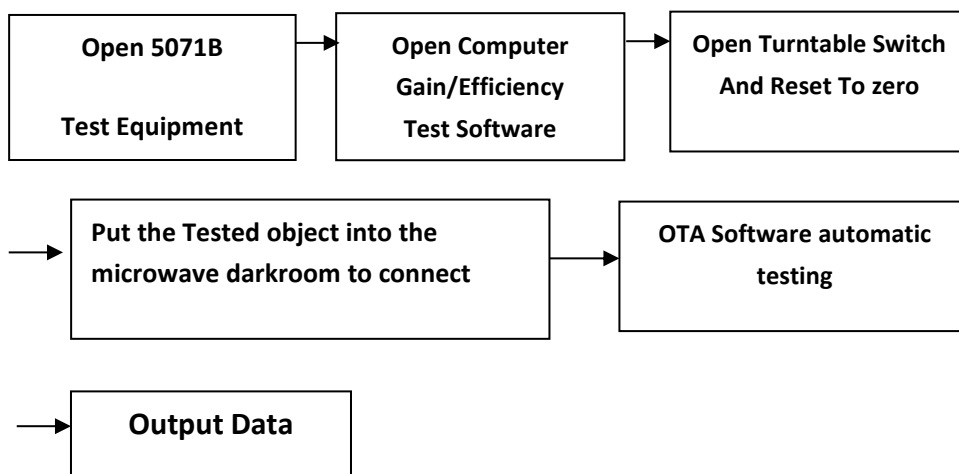
Microwave Anechoic Chamber

4. Test Steps

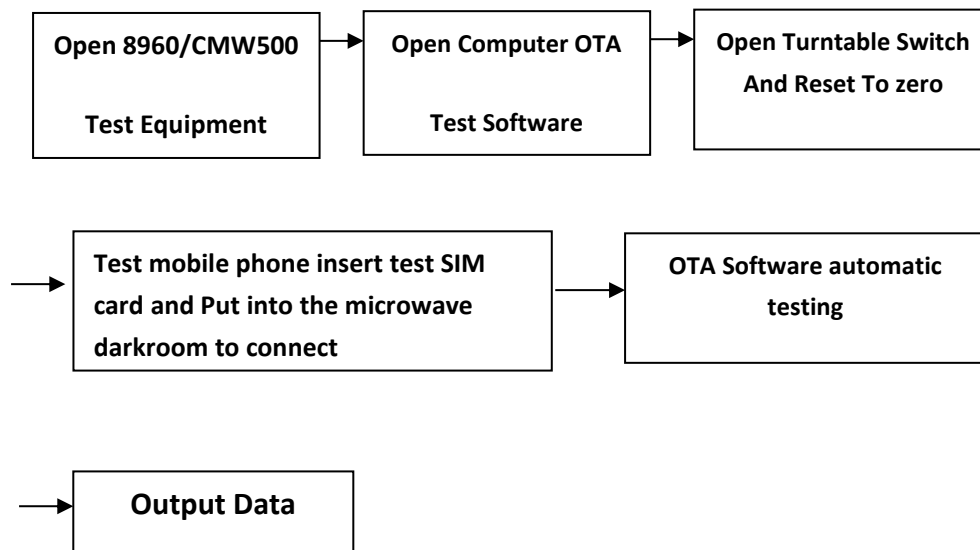
Passive VSWR/RL Test Steps:



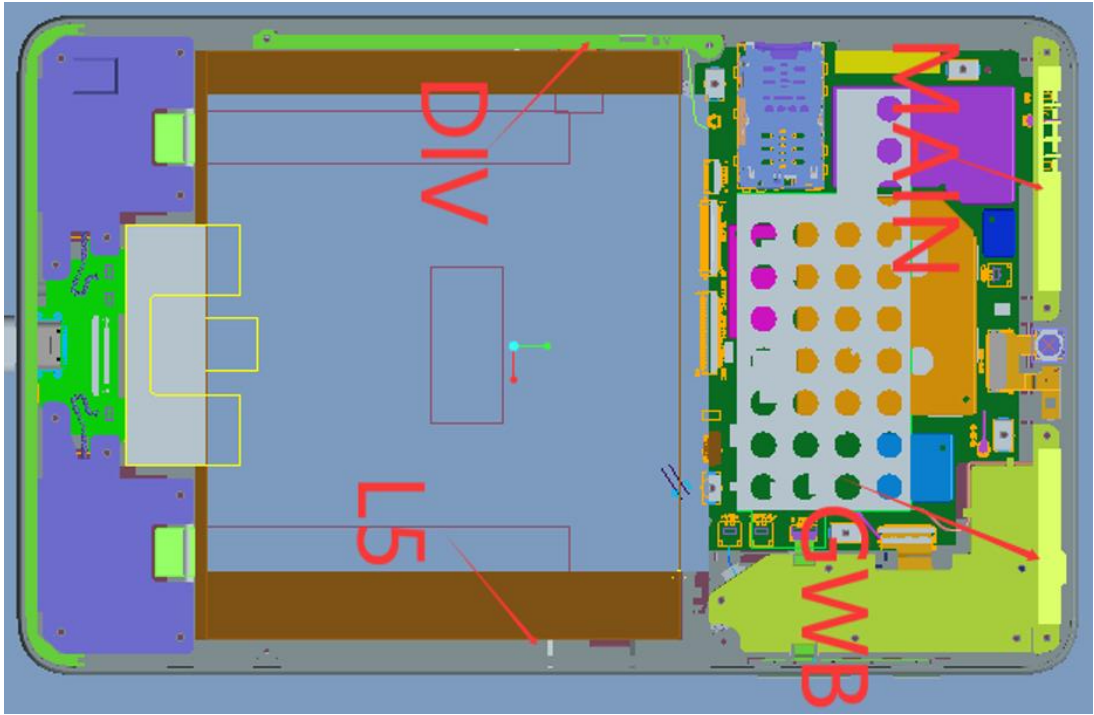
Gain/Efficiency Test Steps:



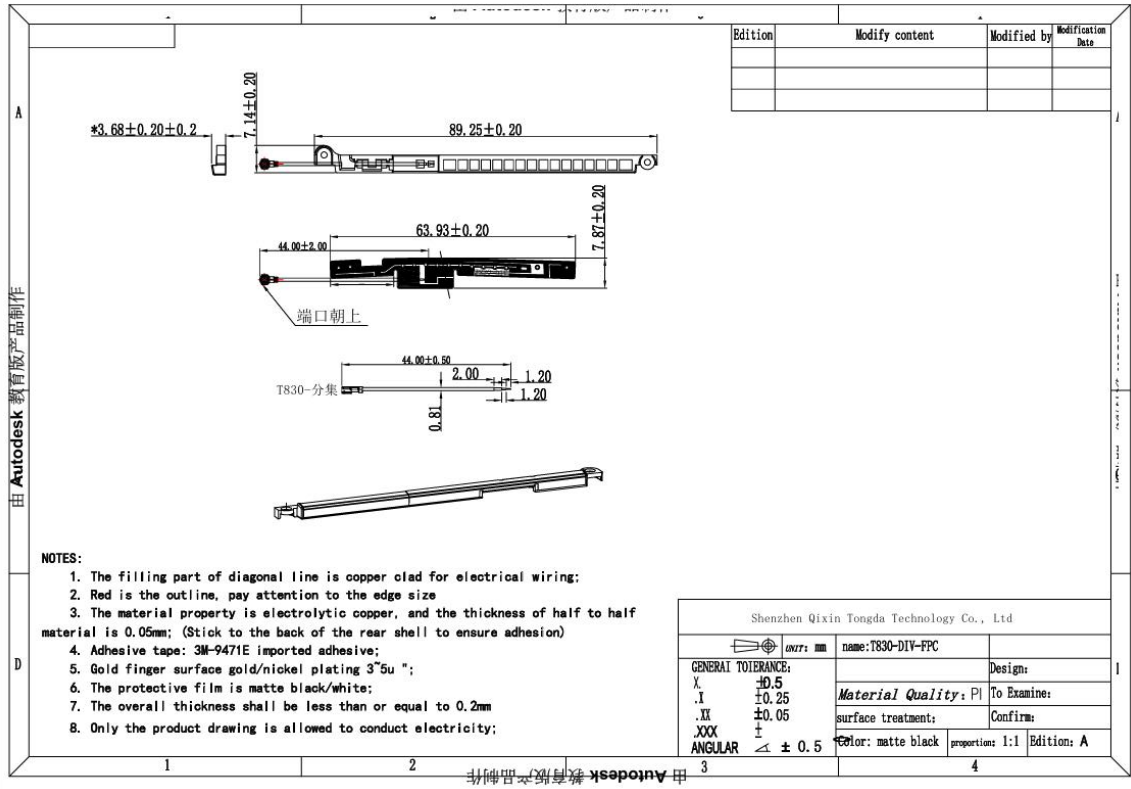
Active TRP/TIS Test Steps:



5. Antenna distribution diagram



6. Antenna size diagram

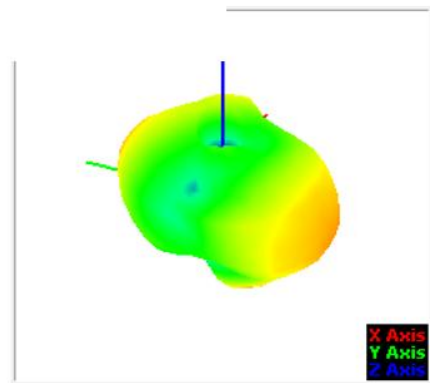
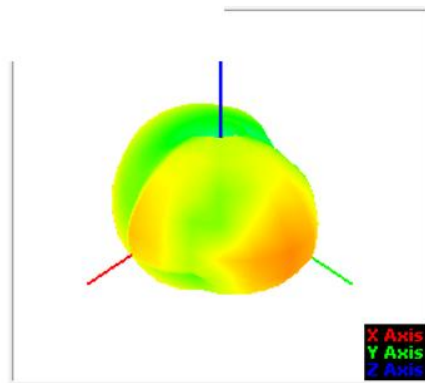
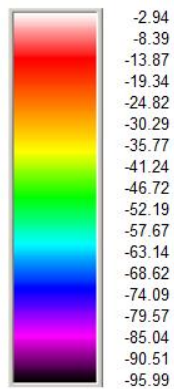


7. Antenna Gain

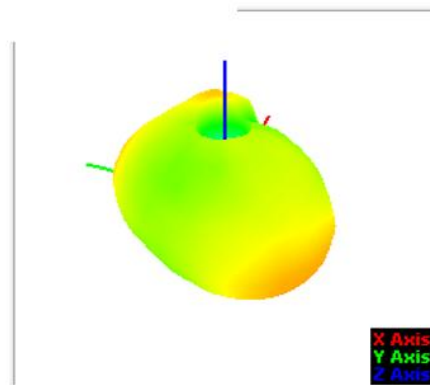
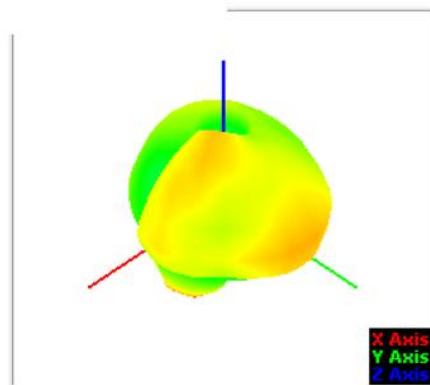
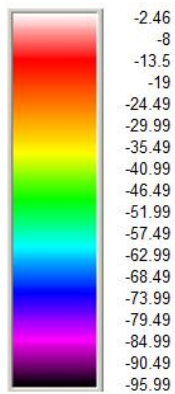
Band	Gain (dBi)
GSM850 (824-894MHZ)	-2.94
GSM900 (880-960MHZ)	-2.46
DCS1800 (1710-1880MHZ)	-1.15
PCS1900 (1850-1990MHZ)	-1.12
WCDMA1 (1920-2170MHZ)	-0.91
WCDMA2 (1950-1990MHZ)	-1.12
WCDMA5 (824-894MHZ)	-2.94
WCDMA8 (880-960MHZ)	-2.46
LTE-B1 (1920-2170MHZ)	-0.91
LTE-B2 (1850-1990MHZ)	-1.12
LTE-B3 (1710-1880MHZ)	-1.15
LTE-B5 (824-894MHZ)	-2.94
LTE-B7 (2500-2690MHZ)	0.77
LTE-B8 (880-960MHZ)	-2.46
LTE-B18 (815-875MHZ)	-2.94
LTE-B19 (830-8790MHZ)	-2.94
LTE-B20 (791-862MHZ)	-2.94
LTE-B26 (814-894MHZ)	-2.94
LTE-B28 (703-803MHZ)	-3.04
LTE-B38 (2570-2620MHZ)	0.77
LTE-B40 (2300-2400MHZ)	0.38
LTE-B41 (2496-2690MHZ)	0.77
GPS (1575.4MHZ)	0.46
GPS (1176.4MHZ)	0.18
Bluetooth (2400-2483.5MHZ)	0.3
WIFI-2.4G (2400-2495MHZ)	0.3
WIFI-5G (5.17-5.84GHZ)	0.77

8.2D&3D Lobe Diagram

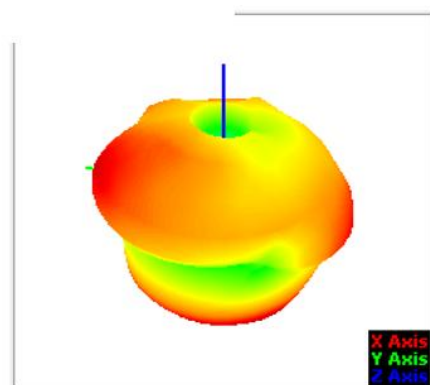
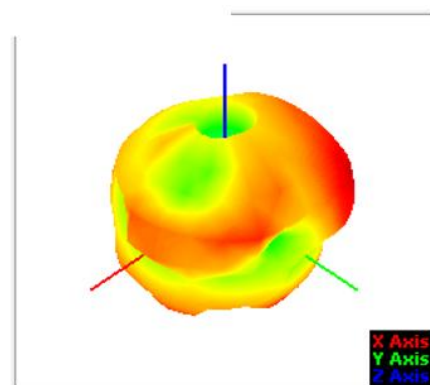
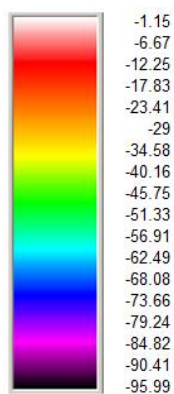
GSM850



GSM900



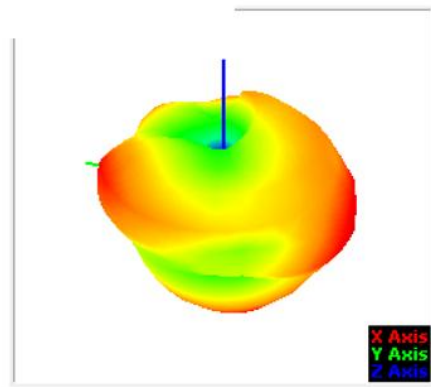
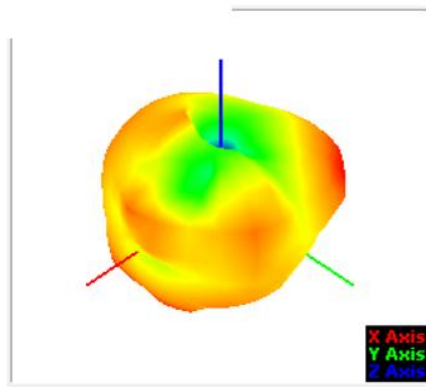
DSC1800



PCS1900



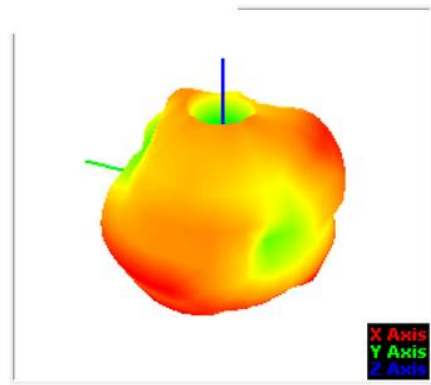
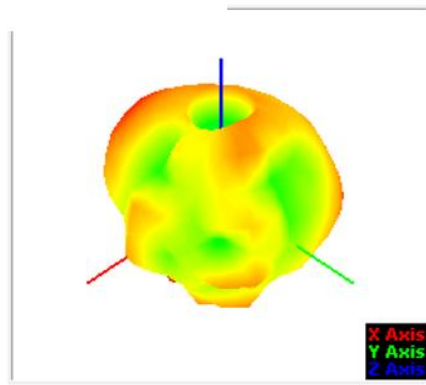
-1.12
-6.62
-12.2
-17.79
-23.37
-28.96
-34.55
-40.13
-45.72
-51.3
-56.89
-62.47
-68.06
-73.65
-79.23
-84.82
-90.4
-95.99



W1



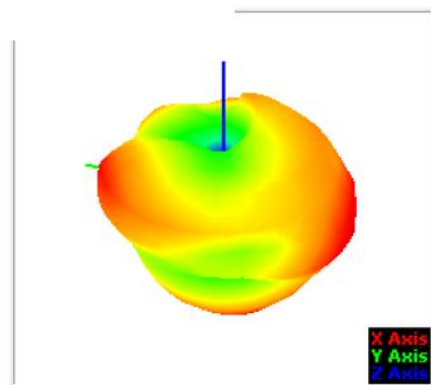
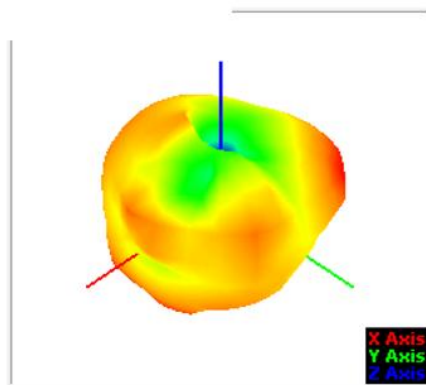
-0.91
-6.62
-12.2
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-95.99



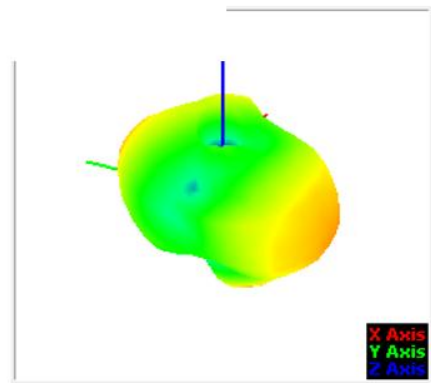
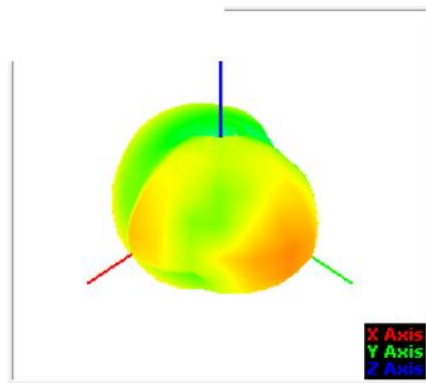
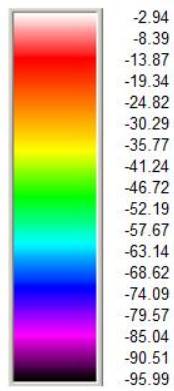
W2



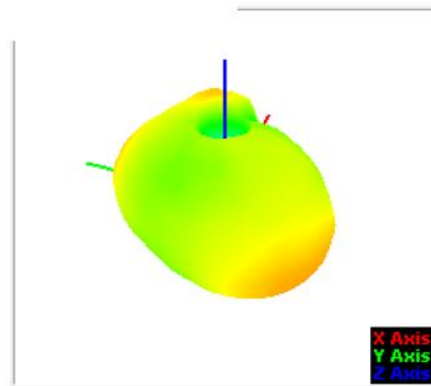
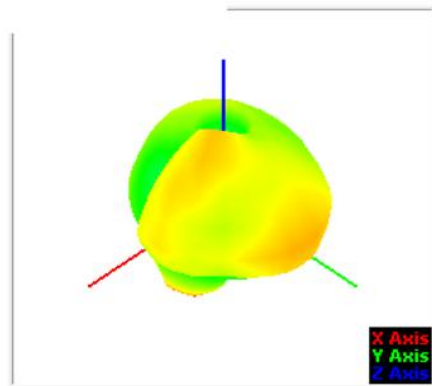
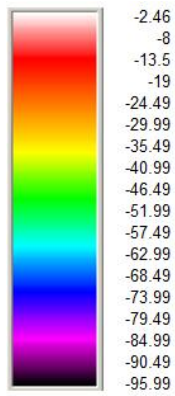
-1.12
-6.62
-12.2
-17.79
-23.37
-28.96
-34.55
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-79.23
-84.82
-90.4
-95.99



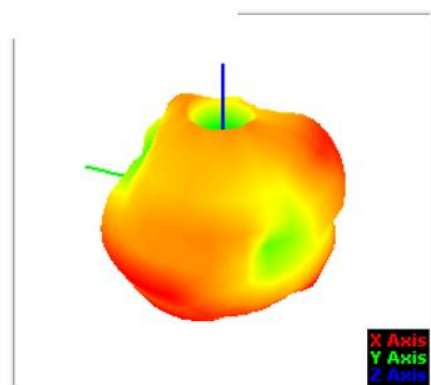
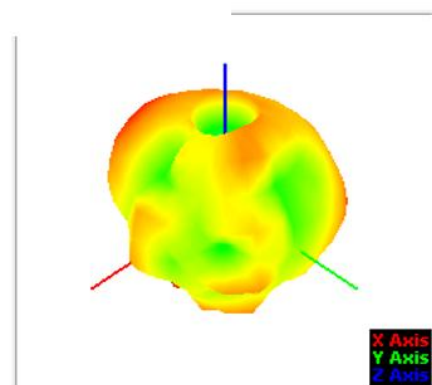
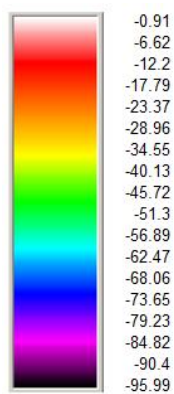
W5



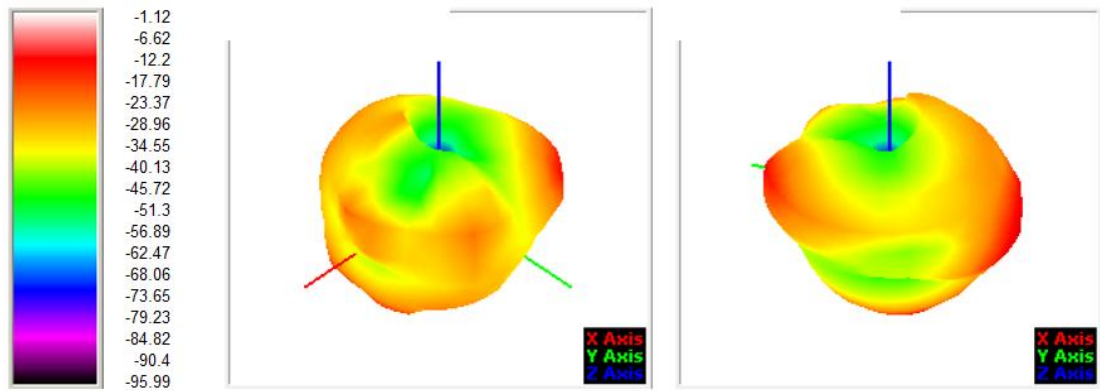
W8



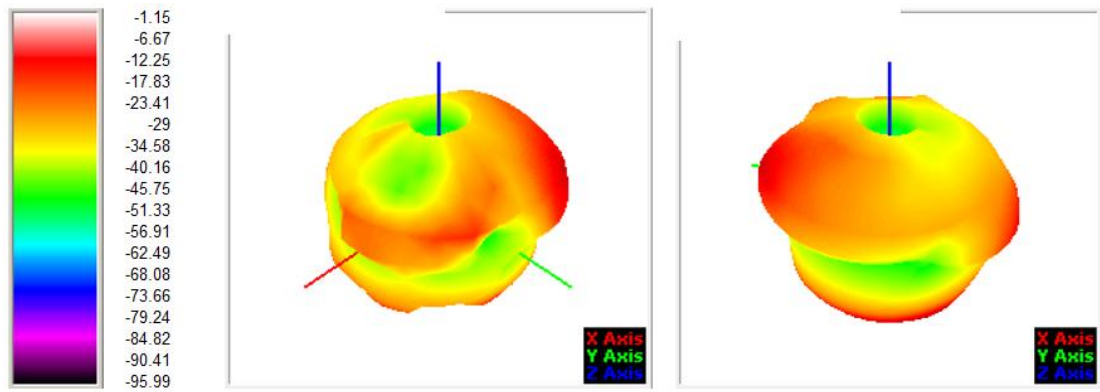
FDD-B1



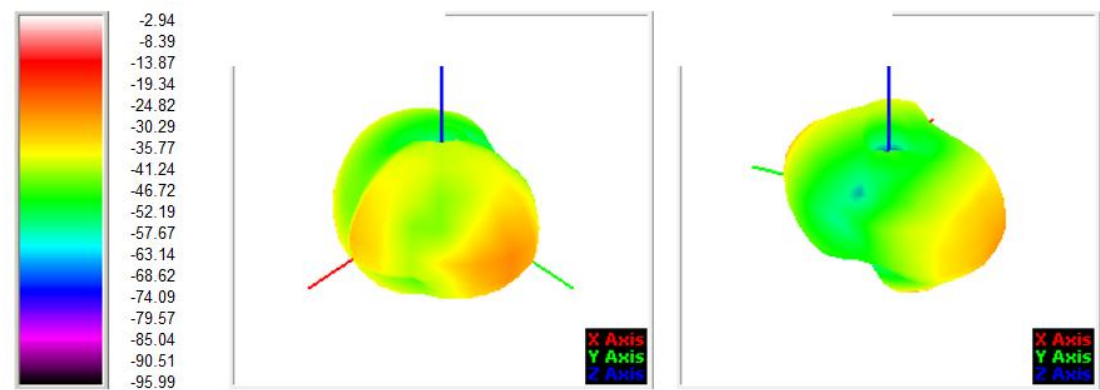
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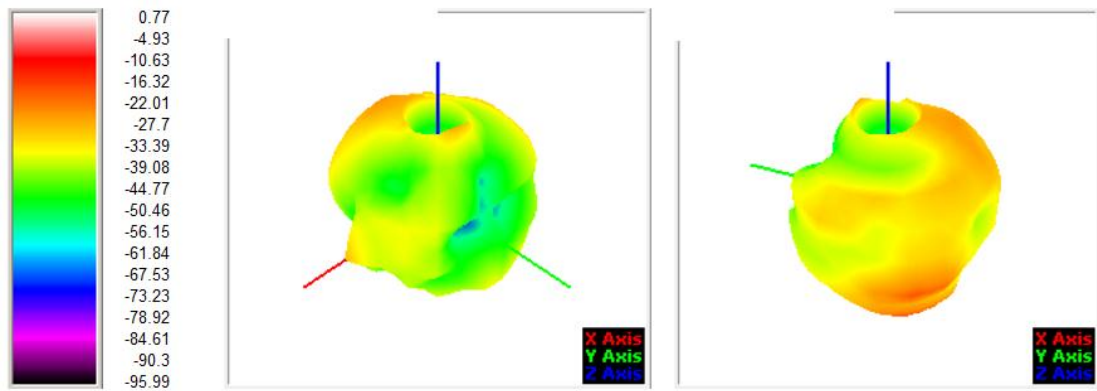
FDD-B3



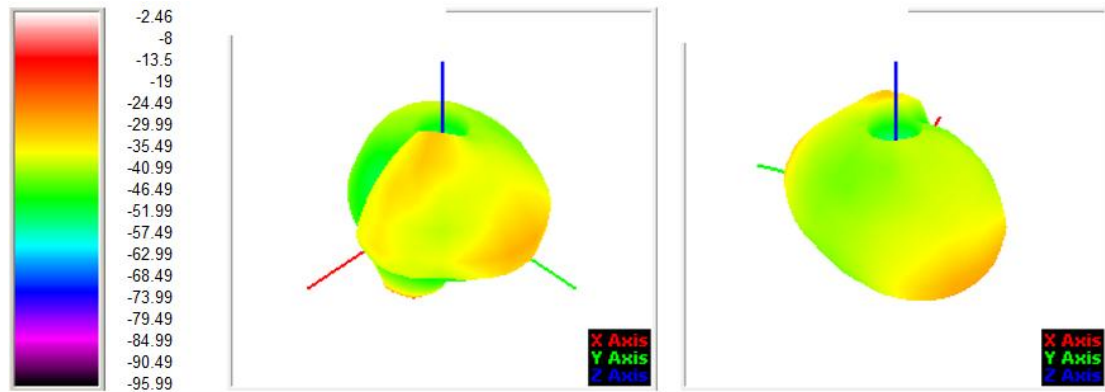
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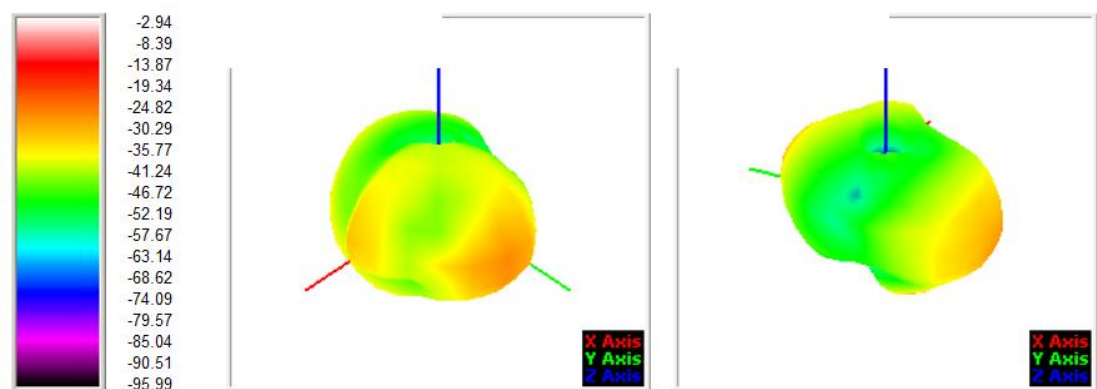
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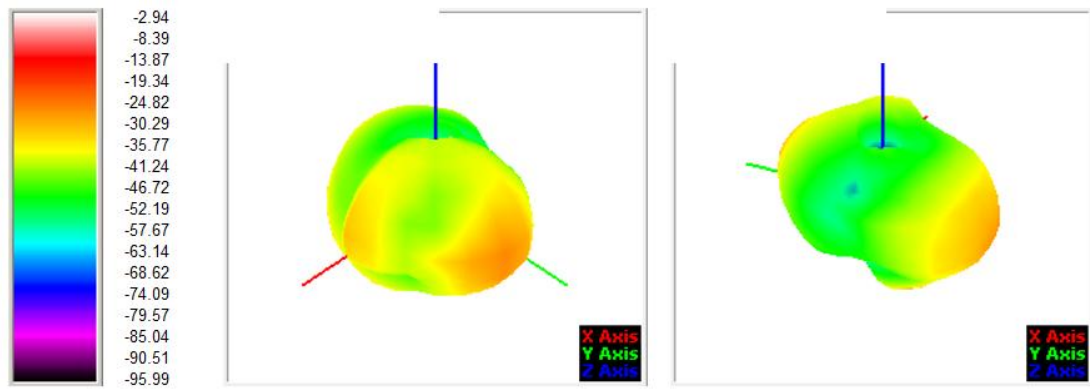
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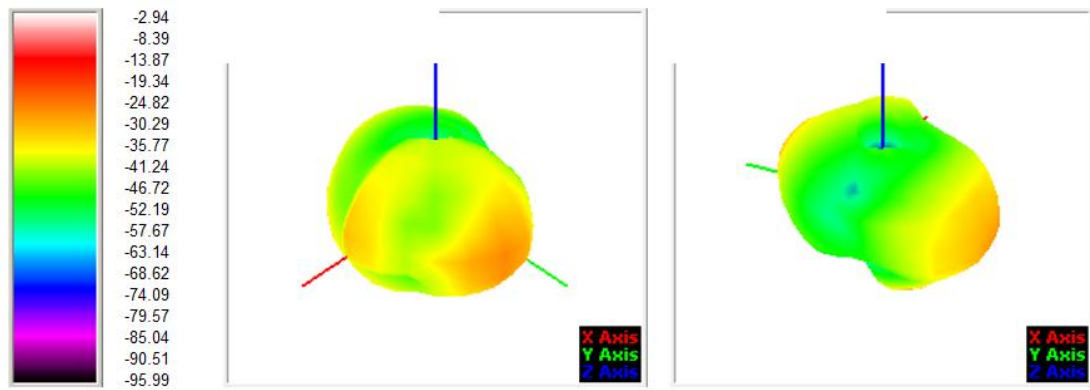
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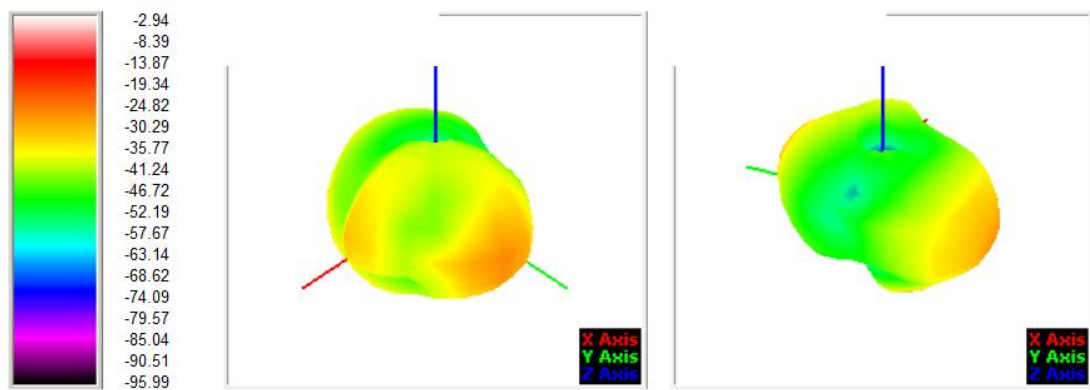
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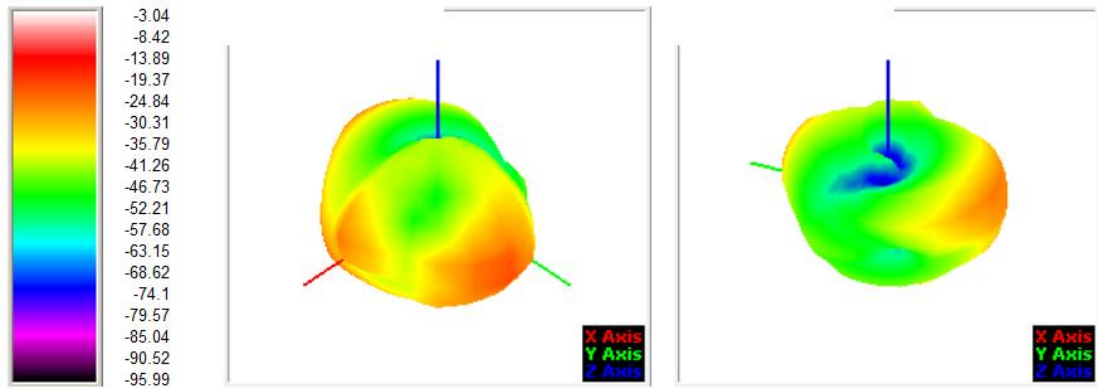
FDD-B20



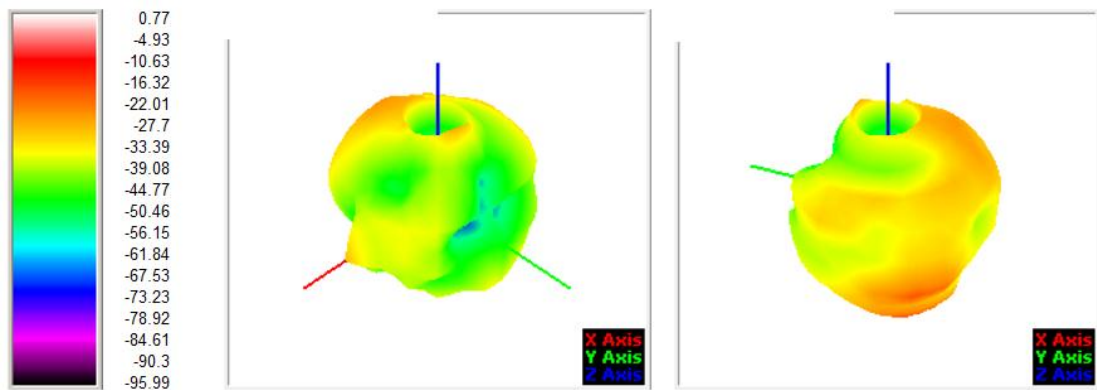
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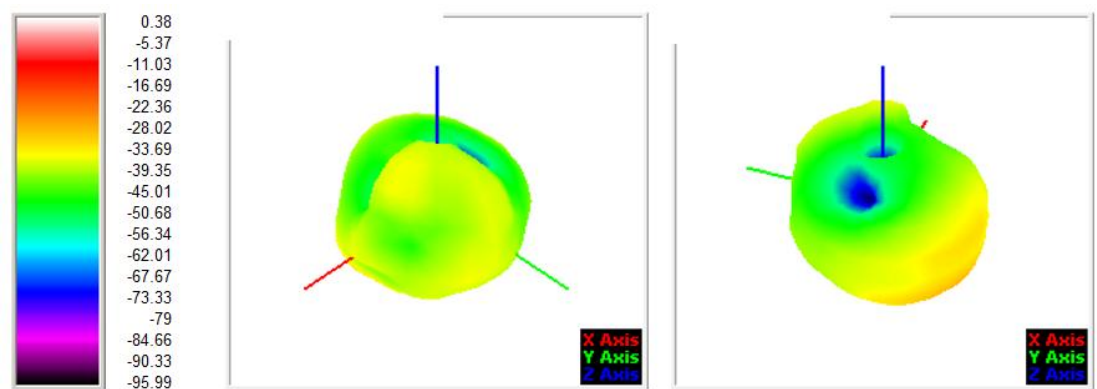
FDD-B28



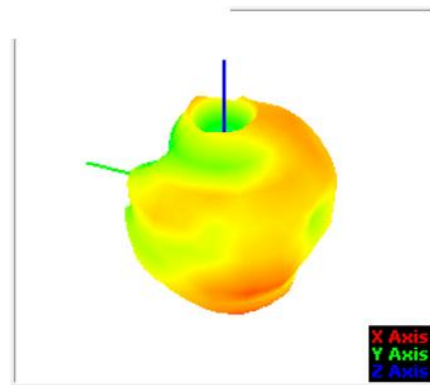
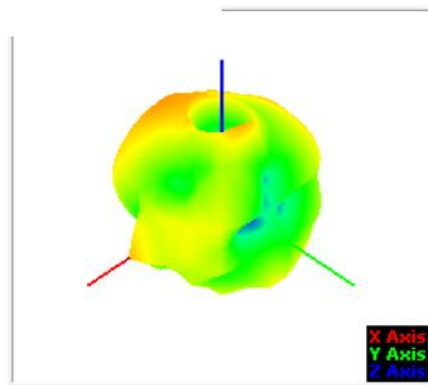
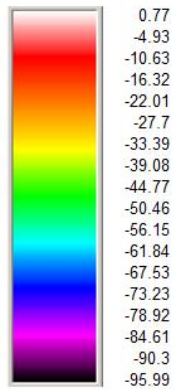
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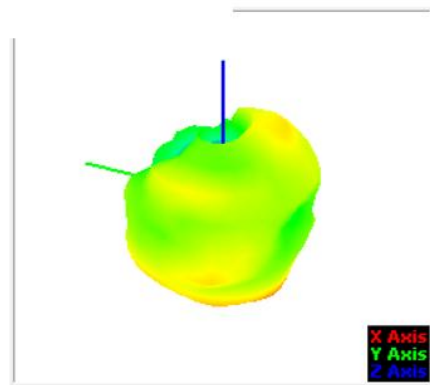
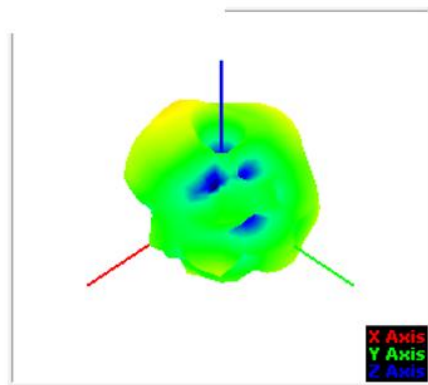
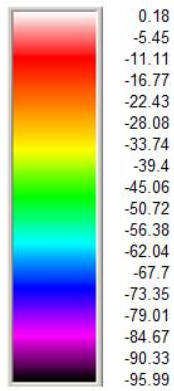
TDD-B40



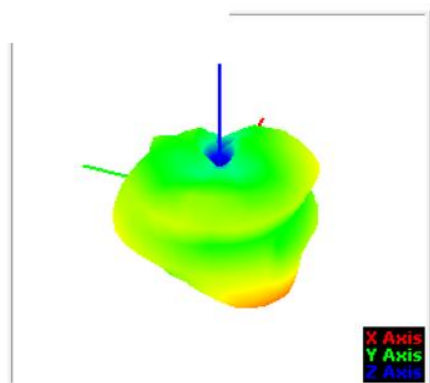
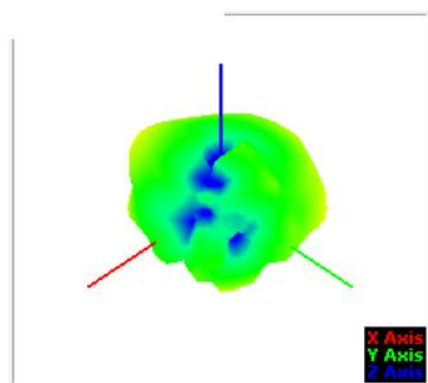
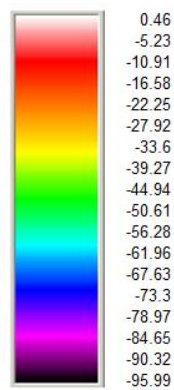
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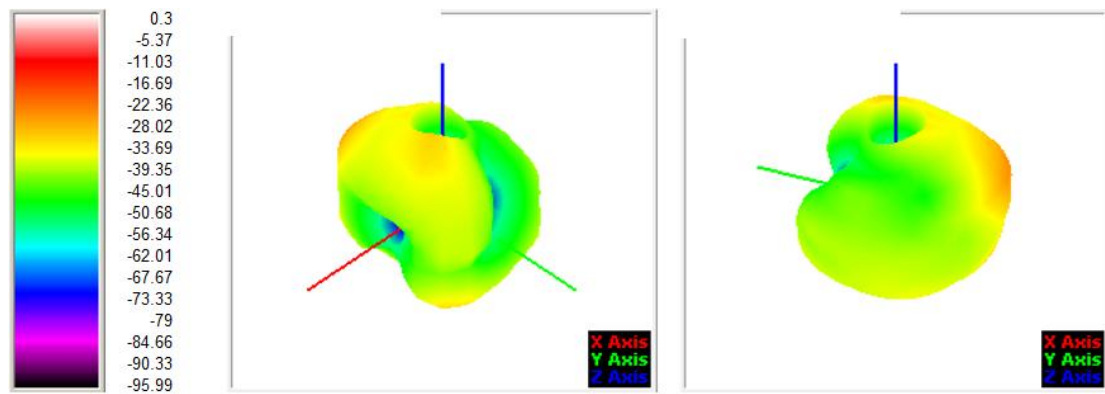
GPS-L5



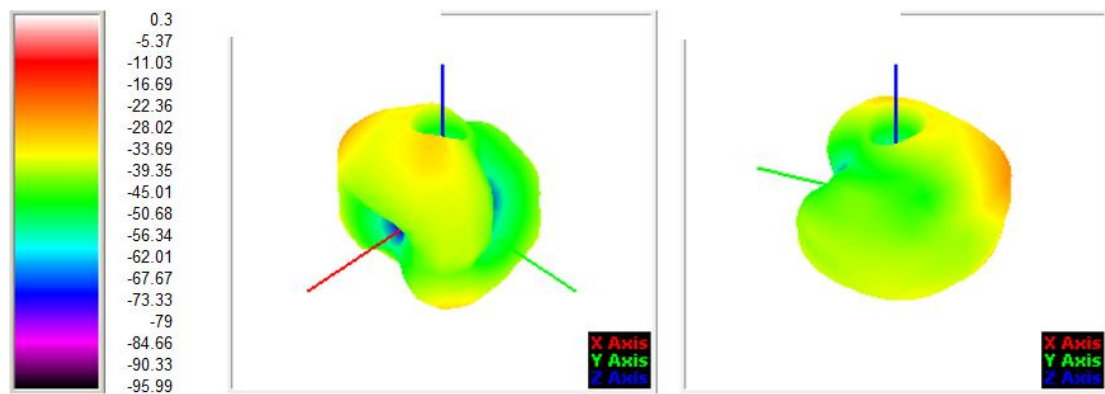
GPS-L1



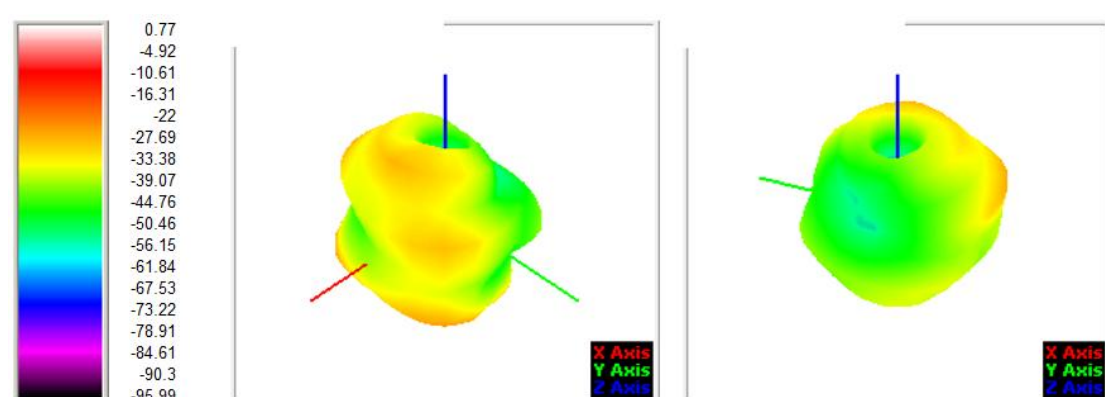
BT



2.4G-WIFI



5.1G-5.8G-WIFI



9.Introduction to Antenna Information

T830	
Antenna type and frequency band	MAIN ANTENNA(PIFA):2G/3G/4G DIV ANTENNA(PIFA):2G/3G/4G GPS/WIFI/BT ANTENNA(PIFA):L5/L1/2.4GWIFI/ 5GWIFI/BT
Antenna materia	FPC