

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna test data report

Client: Xinmiao

project: U1803

G2/3/5/8+W2/4/5/8+

FDD-2/4/5/7/8/28AB

Engineering: Jason (137 6025 5827)

date: 2025-04-14

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 (2/3/4/5G)	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)

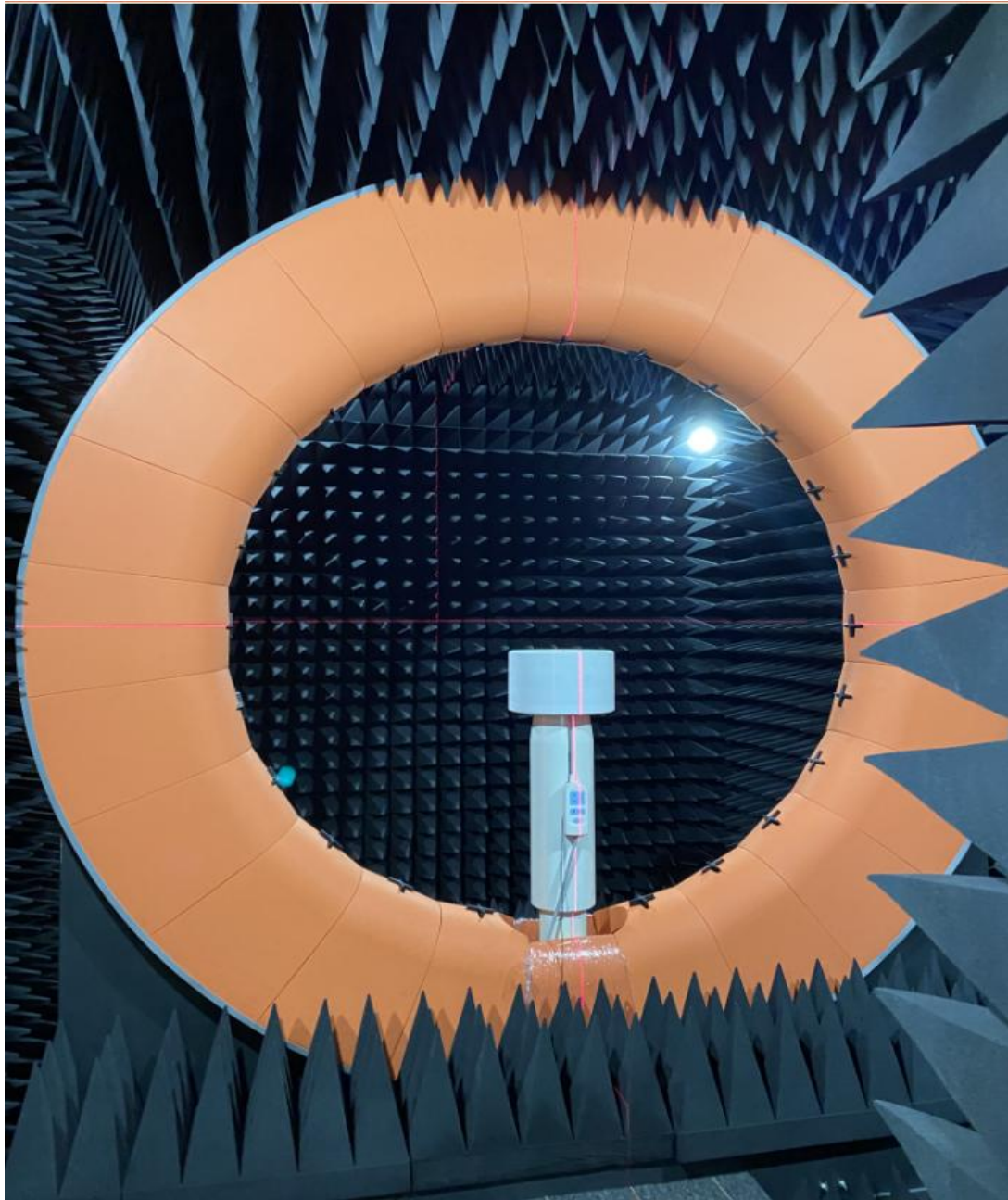


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

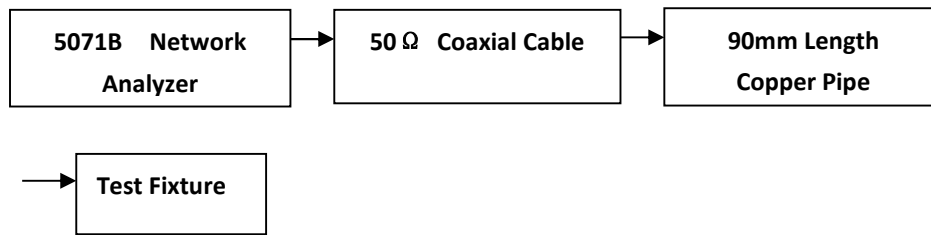
3. TestEnvironment



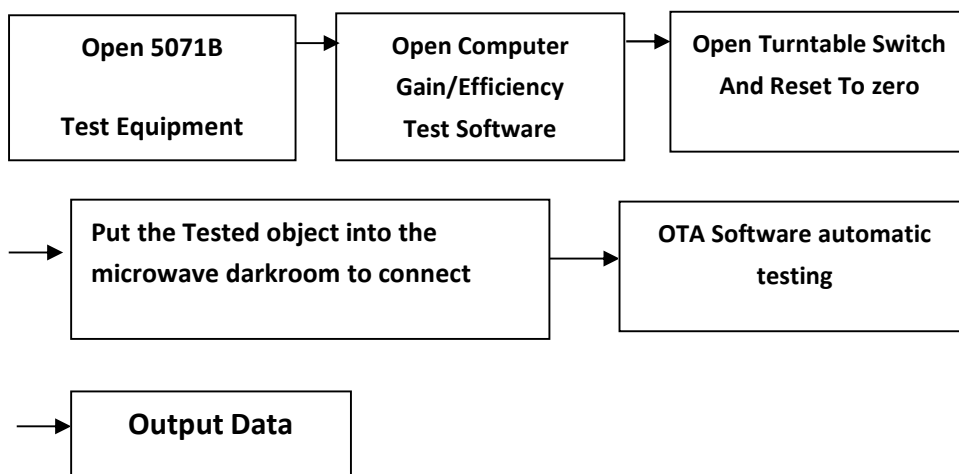
Microwave Anechoic Chamber

4.Test Steps

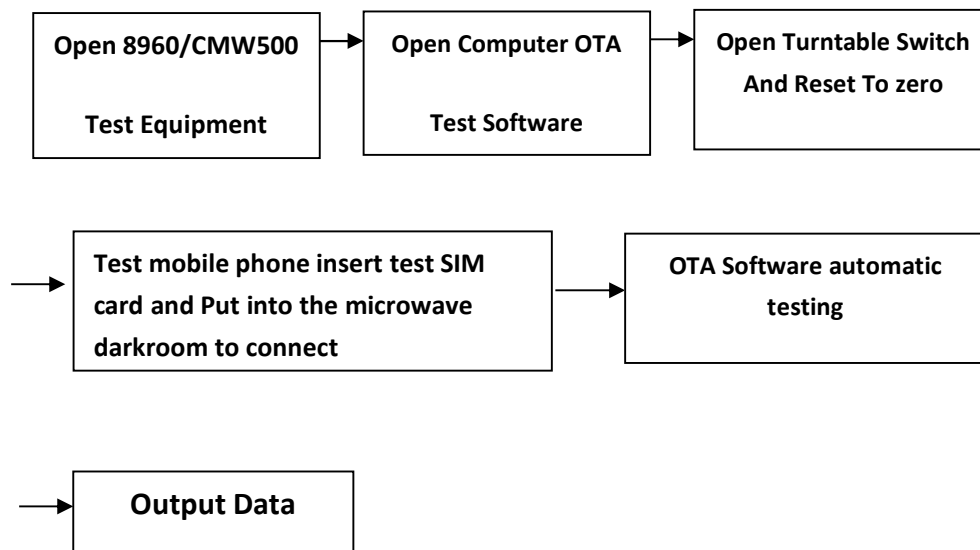
Passive VSWR/RL Test Steps:



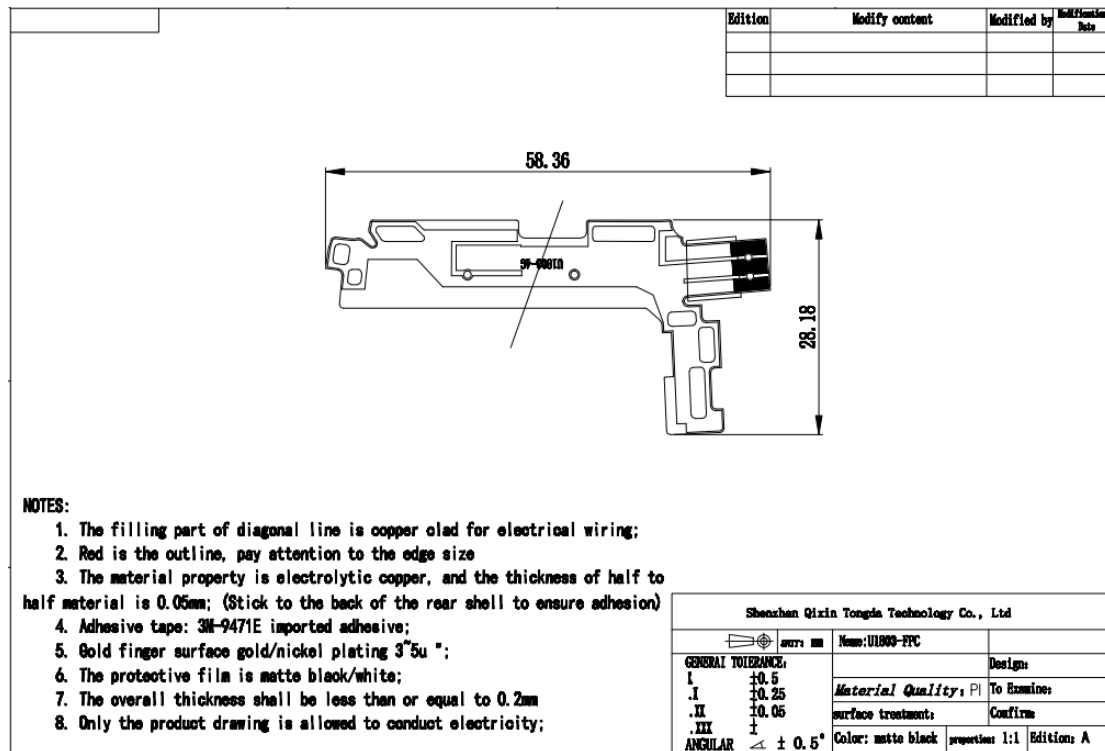
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna size diagram



6. Antenna Gain

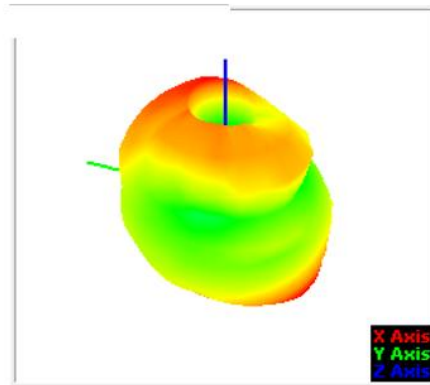
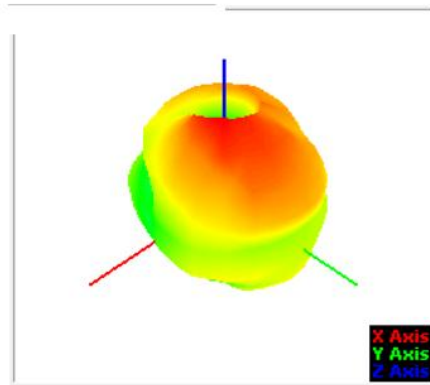
Band	Max Gain
GSM850 (824-894MHZ)	-2.85
GSM900 (880-960MHZ)	-2.46
DCS1800 (1710-1880MHZ)	0.35
PCS1900 (1850-1990MHZ)	0.30
WCDMA2 (1950-1990MHZ)	0.30
WCDMA4 (1710-2155MHZ)	0.34
WCDMA5 (824-894MHZ)	-2.85
WCDMA8 (880-960MHZ)	-2.46
LTE-B2 (1850-1990MHZ)	0.30
LTE-B4 (1710-2155MHZ)	0.34
LTE-B5 (824-894MHZ)	-2.85
LTE-B7 (2500-2690MHZ)	1.04
LTE-B8 (880-960MHZ)	-2.46
LTE-B28 (703-803MHZ)	-3.11
ANT7-Bluetooth (2400-2483.5MHZ)	0.05

7.2D&3D Lobe Diagram

GSM850



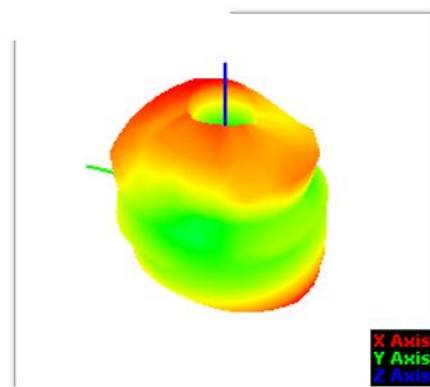
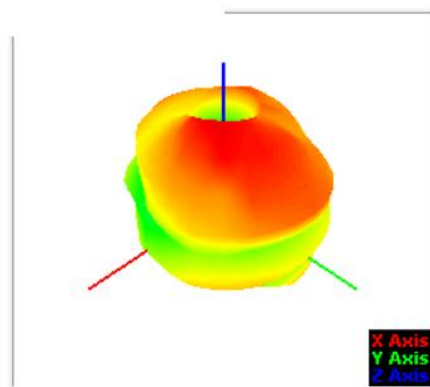
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-8.37
-13.84
-19.32
-24.8
-30.27
-35.75
-41.22
-46.7
-52.18
-57.65
-63.13
-68.61
-74.08
-79.56
-85.04
-90.51
-95.99



GSM900



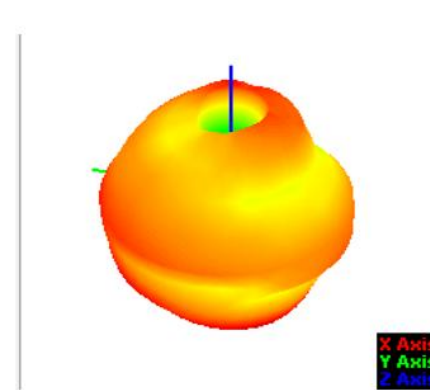
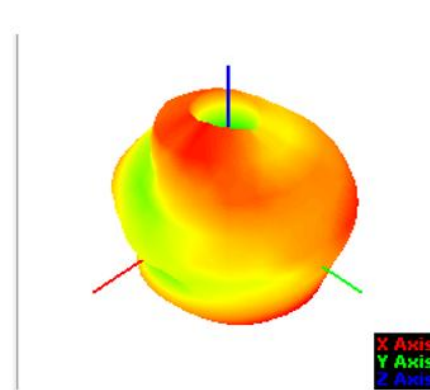
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-8.08
-13.58
-19.07
-24.57
-30.06
-35.55
-41.05
-46.54
-52.04
-57.53
-63.03
-68.52
-74.01
-79.51
-85
-90.5
-95.99



DSC1800



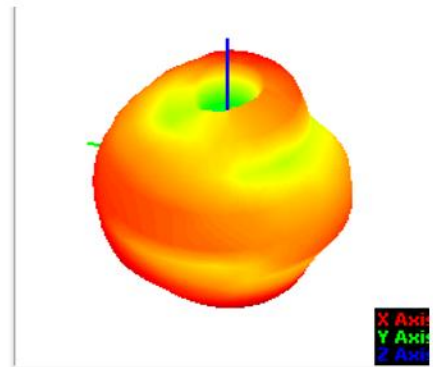
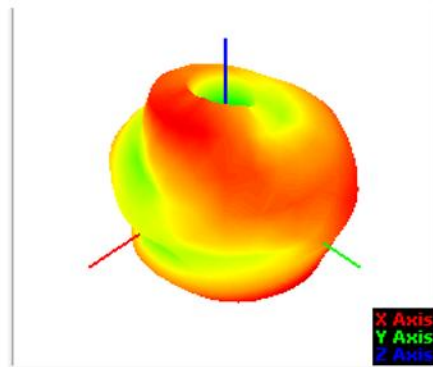
-0.65
-6.58
-12.16
-17.75
-23.34
-28.93
-34.52
-40.11
-45.69
-51.28
-56.87
-62.46
-68.05
-73.64
-79.22
-84.81
-90.4
-95.99



PCS1900



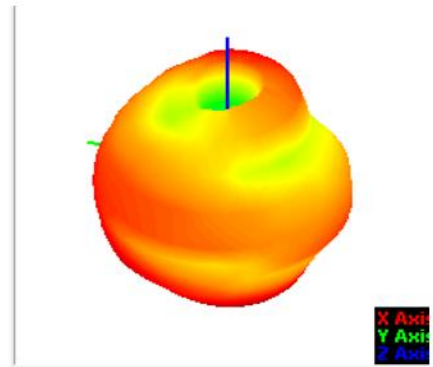
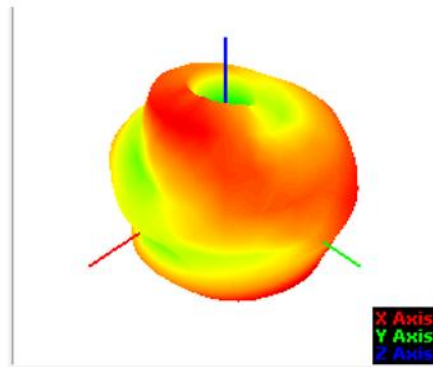
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-5.82
-11.46
-17.09
-22.73
-28.36
-34
-39.63
-45.27
-50.91
-56.54
-62.18
-67.81
-73.45
-79.08
-84.72
-90.35
-95.99



W2



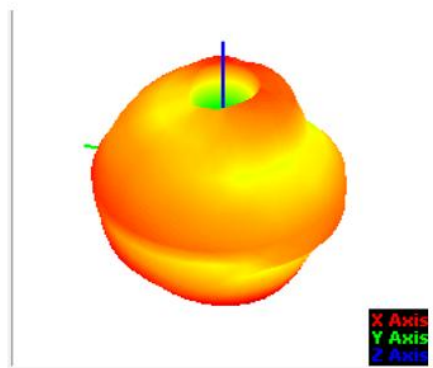
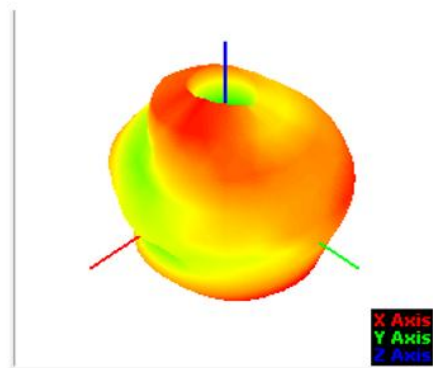
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-5.82
-11.46
-17.09
-22.73
-28.36
-34
-39.63
-45.27
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-62.18
-67.81
-73.45
-79.08
-84.72
-90.35
-95.99



W4



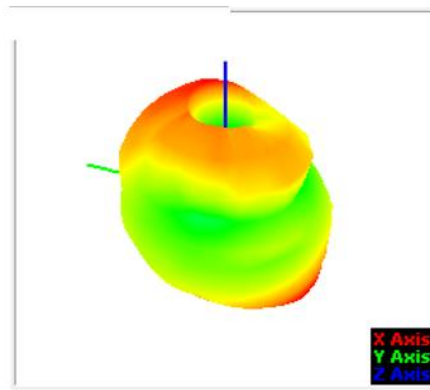
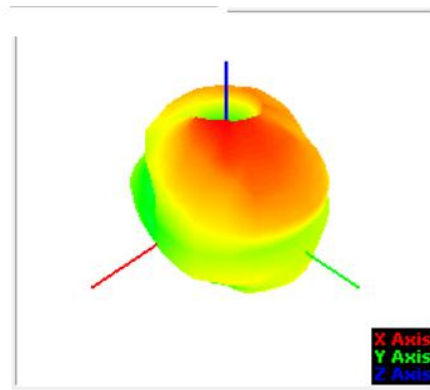
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-6.58
-12.16
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-23.34
-28.93
-34.52
-40.11
-45.69
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-68.05
-73.64
-79.22
-84.81
-90.4
-95.99



W5



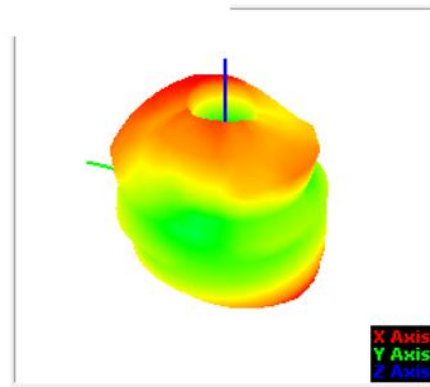
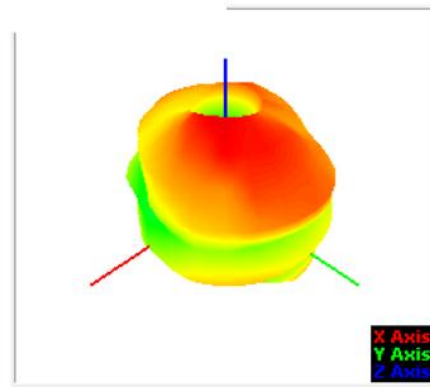
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-8.37
-13.84
-19.32
-24.8
-30.27
-35.75
-41.22
-46.7
-52.18
-57.65
-63.13
-68.61
-74.08
-79.56
-85.04
-90.51
-95.99



W8



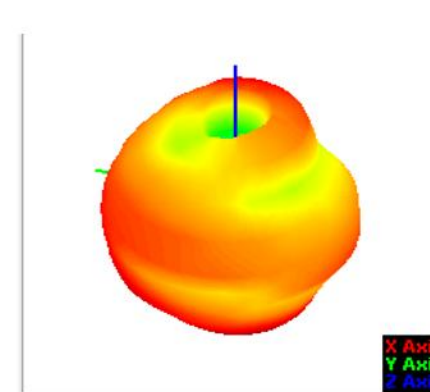
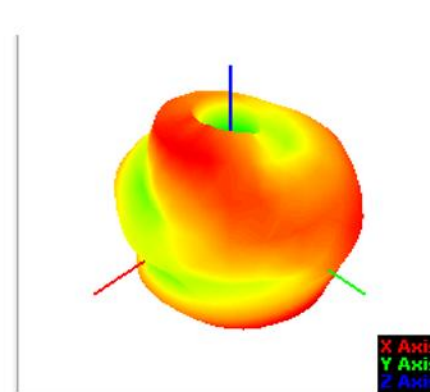
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-8.08
-13.58
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-24.57
-30.06
-35.55
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-68.52
-74.01
-79.51
-85
-90.5
-95.99



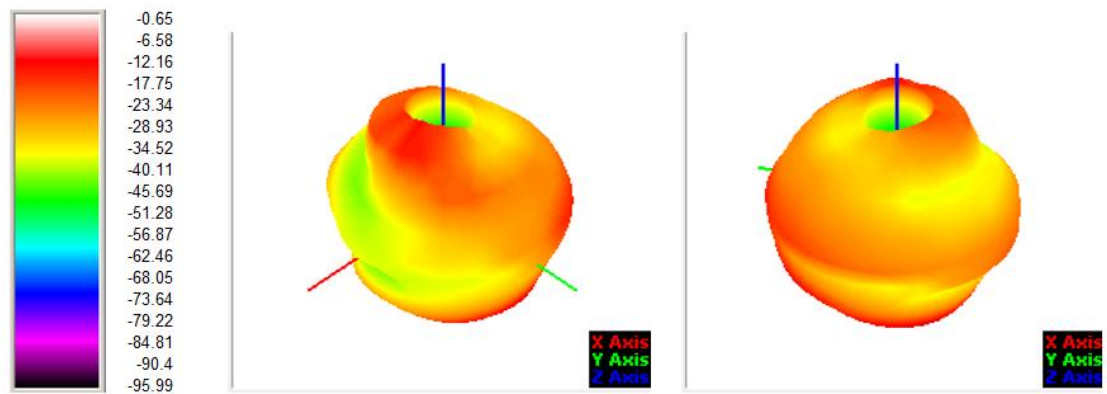
FDD-B2



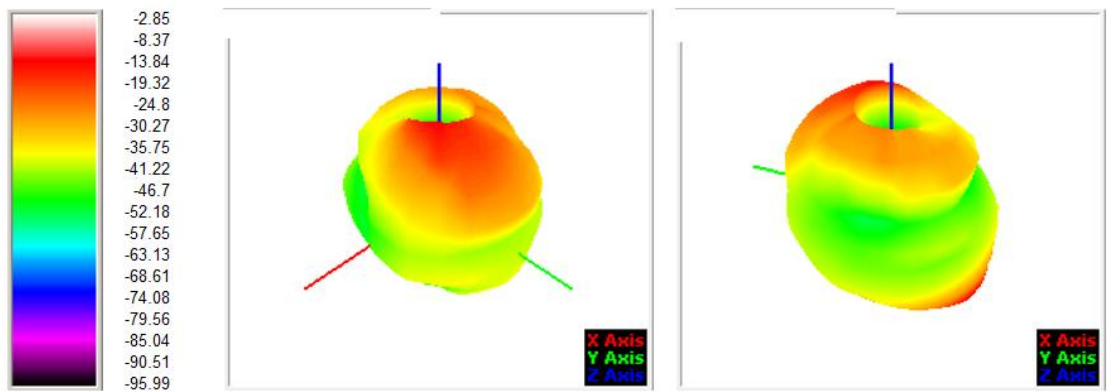
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-28.36
-34
-39.63
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-67.81
-73.45
-79.08
-84.72
-90.35
-95.99



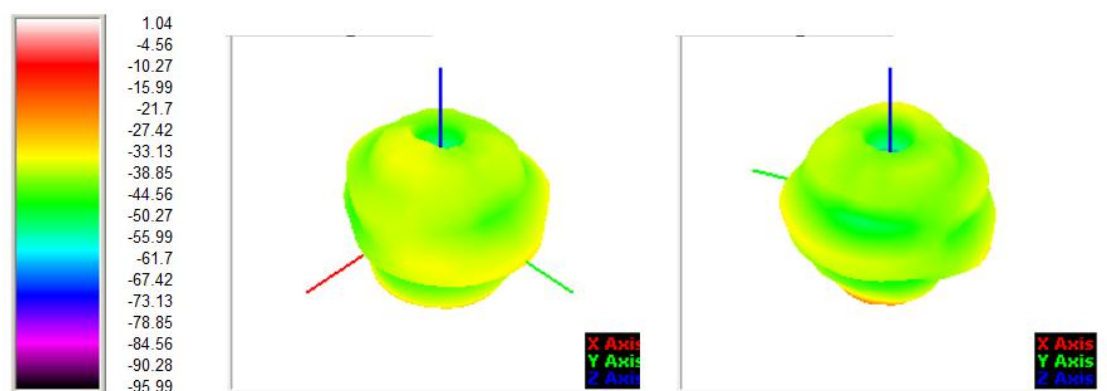
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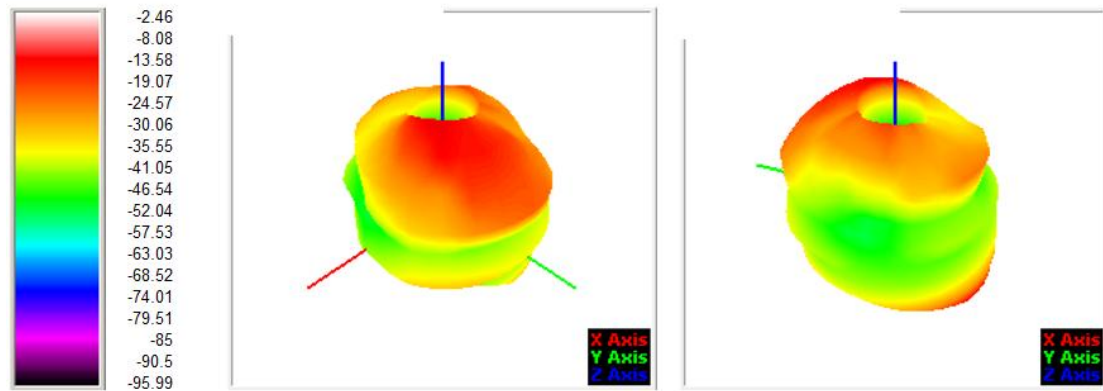
FDD-B5



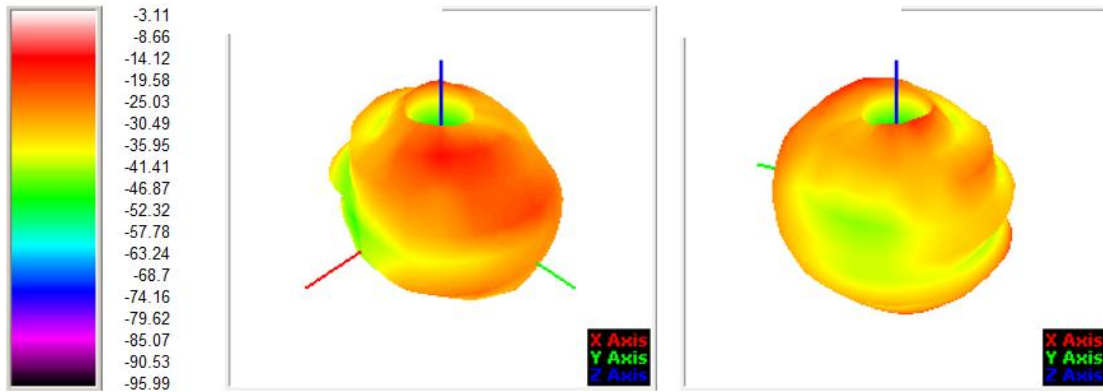
FDD-B7



FDD-B8



FDD-B28



8.Introduction to Antenna Information

U1803	
Antenna type and frequency band	MAIN ANTENNA(PIFA):2G/3G/4G
Antenna materia	FPC

9. VSWR

