

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna Test Data Report

customer: Tianruixiang

project: S6601-06C/06D

2G: 850/900/1800/1900

3G: W1/2/4/5/8

4G: B1/2/3/4/5/7/8/12/17/19/20/25/26/28/66

project:FUGONG (187 1893 6792)

date: 2024-08-26

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

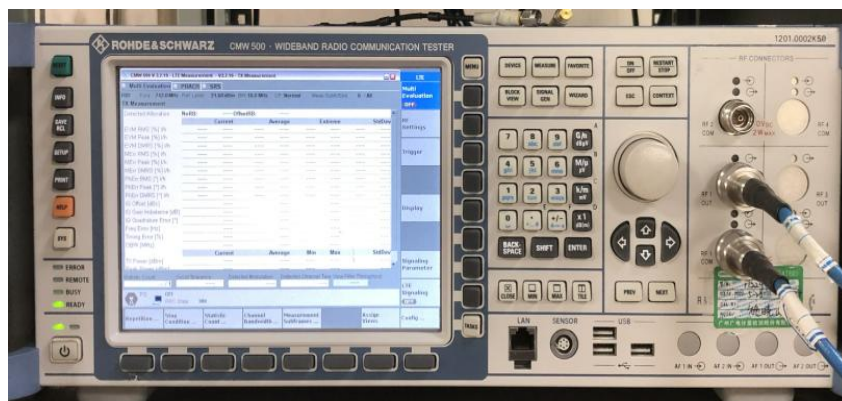
2.Test Equipment



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



Agilent 8960 (2G/3GTest Equipment)

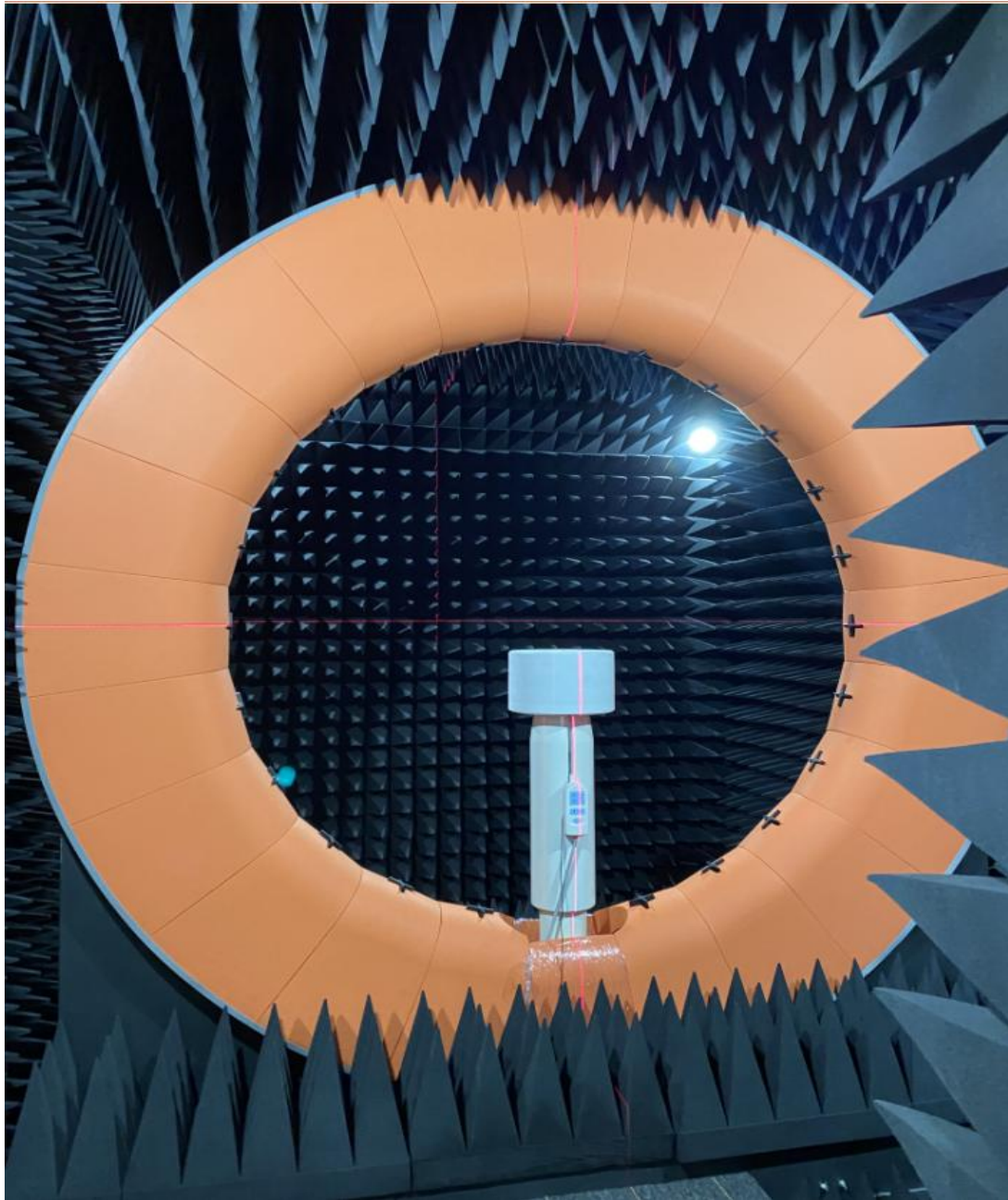


CMW 500 (2G/3G/4GTest Equipment)



SP9500 (5GTest Equipment)

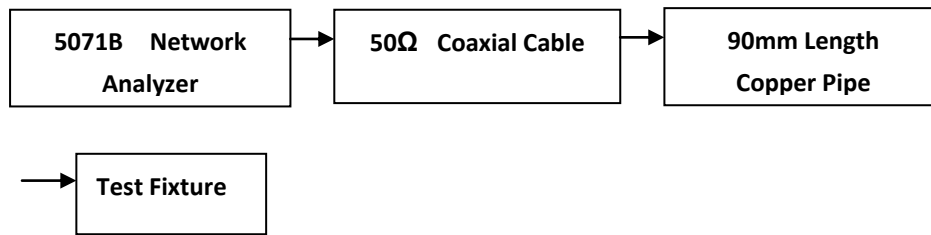
3. TestEnvironment



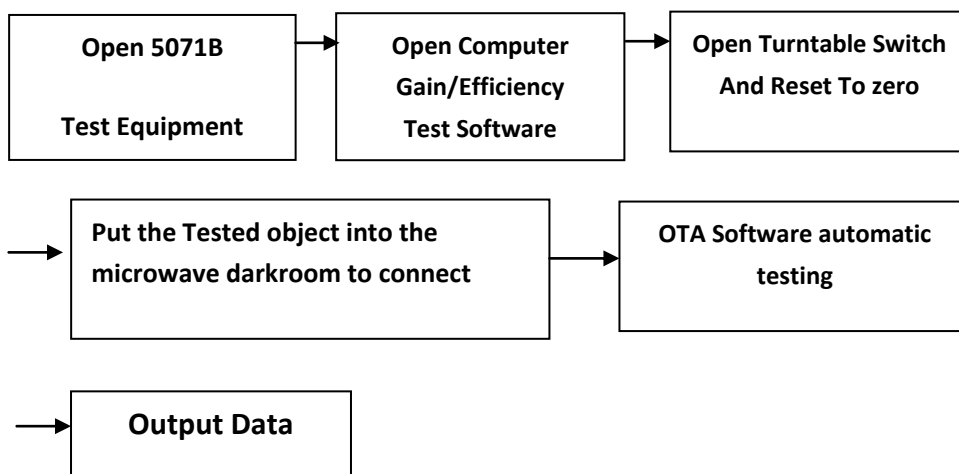
Microwave Anechoic Chamber

4.Test Steps

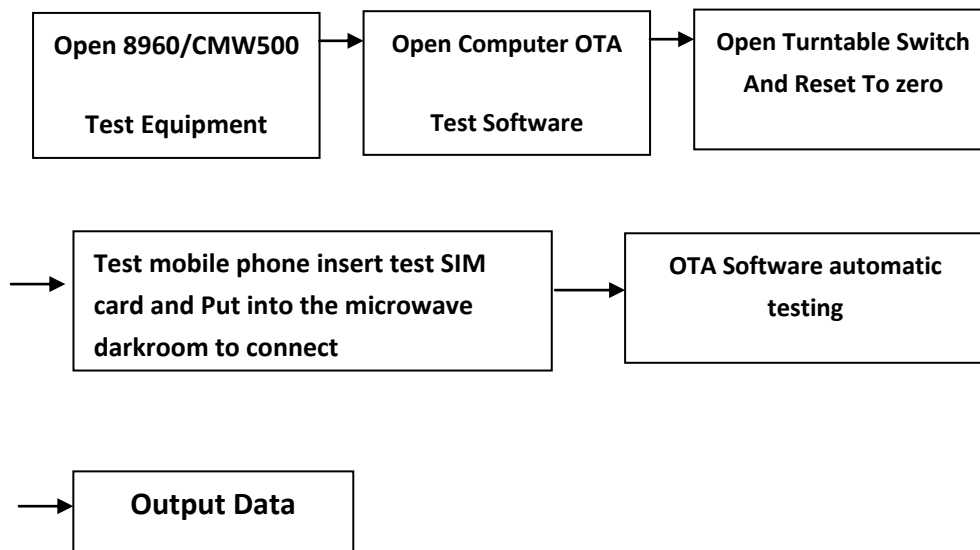
Passive VSWR/RL Test Steps:



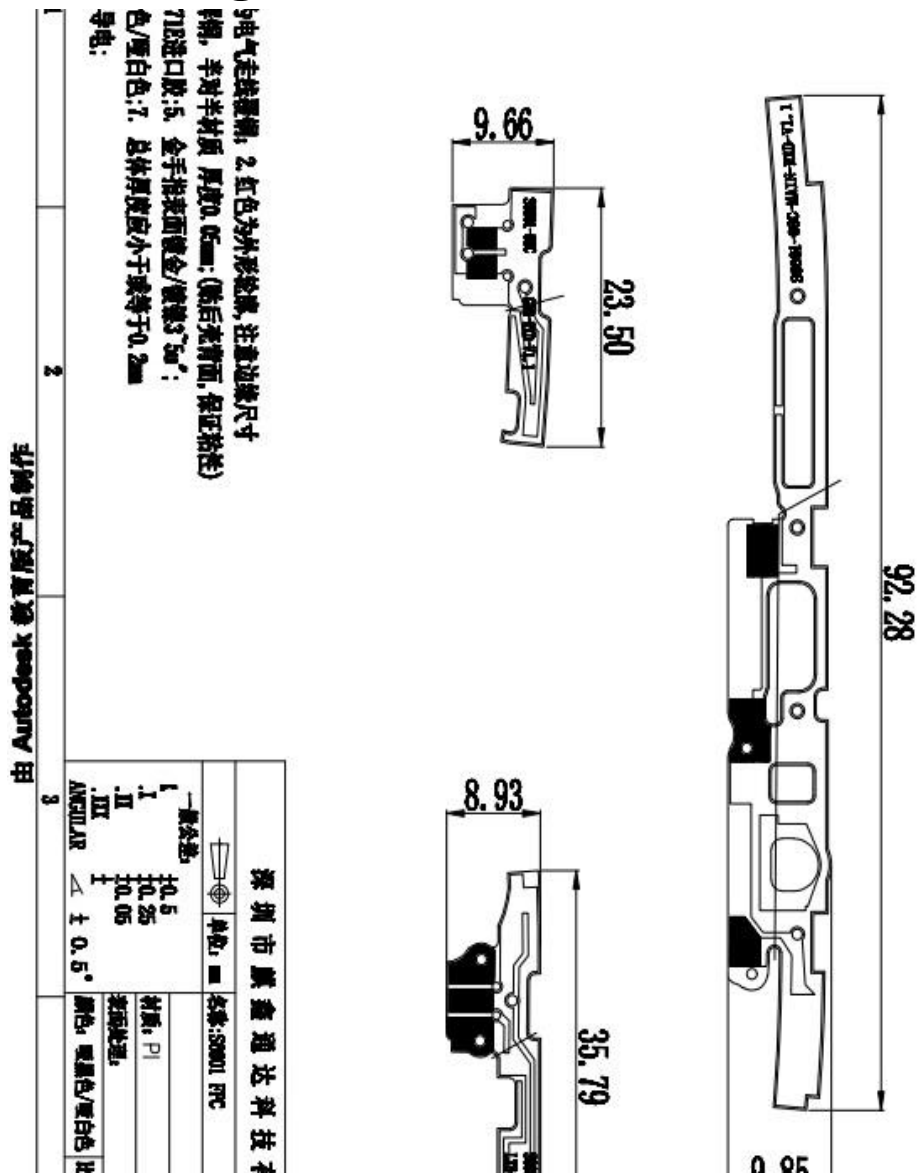
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna size diagram



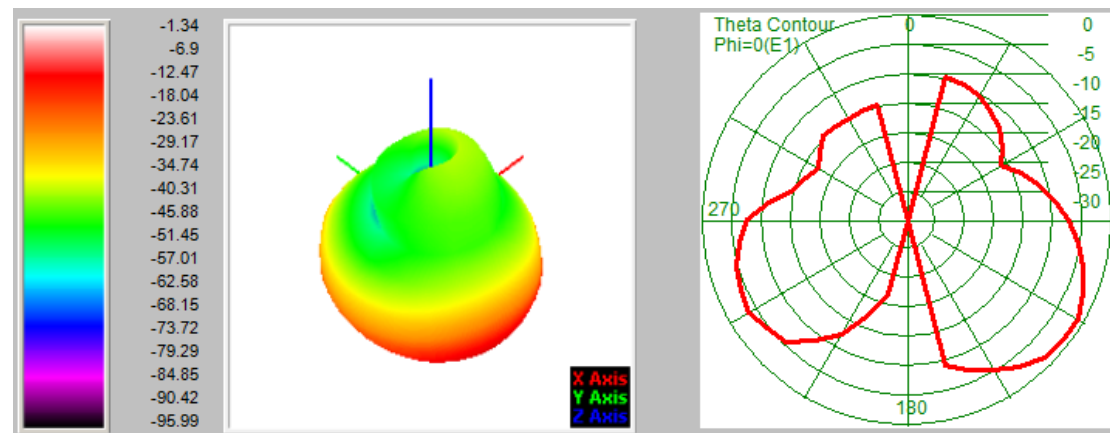
6. Antenna Gain

Band	Max Gain	Band	Max Gain
GSM850 (824-894MHZ)	-1.34	Bluetooth (2400-2483.5MHZ)	2.58
GSM900 (880-960MHZ)	-1.26	WIFI-2.4G (2400-2495MHZ)	2.58
DCS1800 (1710-1880MHZ)	0.72	WIFI-5.2G (5.17-5.33GHZ)	0.07
PCS1900 (1850-1990MHZ)	1.37	WIFI-5.8G (5.490-5.835GHZ)	-1.83
WCDMA1 (1920-2170MHZ)	2.10	GPS (1575.4MHZ)	2.46
WCDMA2 (1950-1990MHZ)	1.37		
WCDMA4 (1710-2155MHZ)	2.10		
WCDMA5 (824-894MHZ)	-1.34		

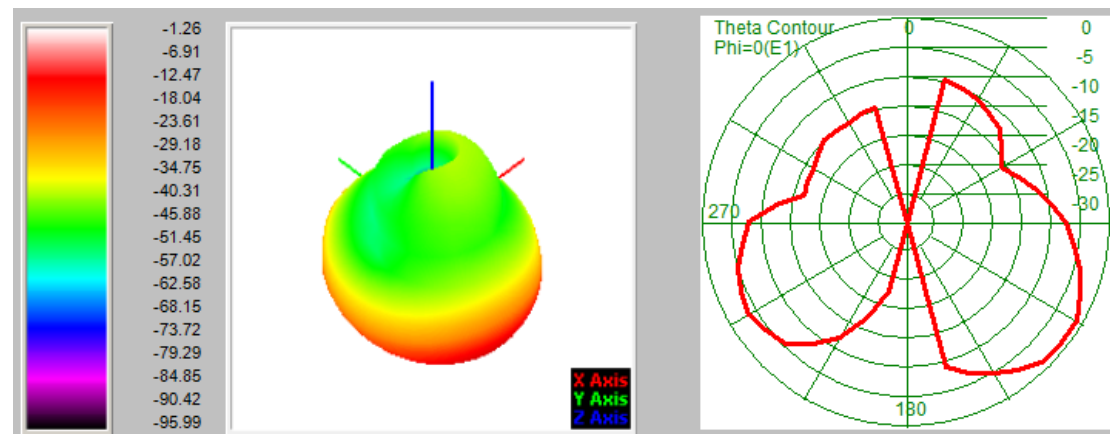
WCDMA8 (880-960MHZ)	-1.26		
LTE-B1 (1920-2170MHZ)	2.10		
LTE-B2 (1850-1990MHZ)	1.37		
LTE-B3 (1710-1880MHZ)	0.72		
LTE-B4 (1710-2155MHZ)	2.10		
LTE-B5 (824-894MHZ)	-1.34		
LTE-B7 (2500-2690MHZ)	2.15		
LTE-B8 (880-960MHZ)	-1.26		
LTE-B12 (699-746MHZ)	-1.47		
LTE-B17 (704-746MHZ)	-1.47		
LTE-B19 (830-8790MHZ)	-1.34		
LTE-B20 (791-862MHZ)	-1.34		
LTE-B25 (1850-1995MHZ)	1.37		
LTE-B26 (814-894MHZ)	-1.34		
LTE-B28 (703-803MHZ)	-1.47		
LTE-B66 (1715-2170MHZ)	2.10		

8.2D&3D Lobe Diagram

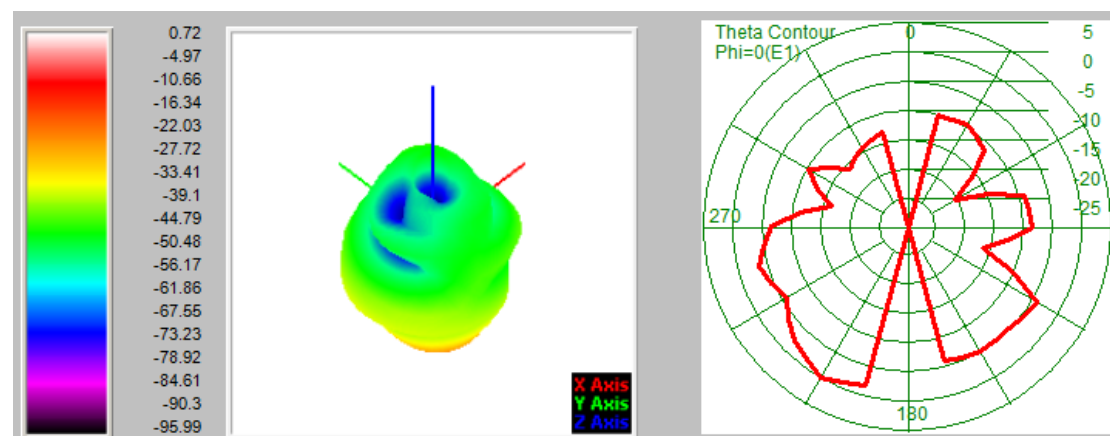
GSM850



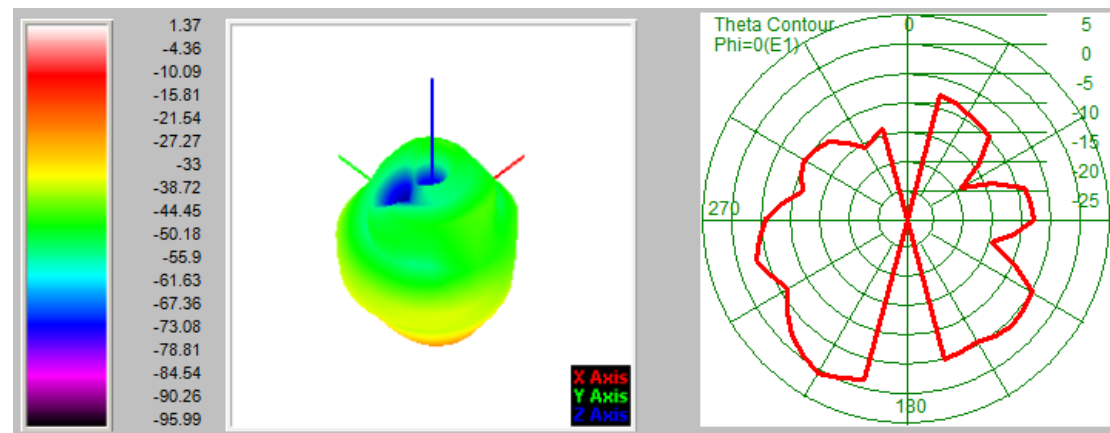
GSM900



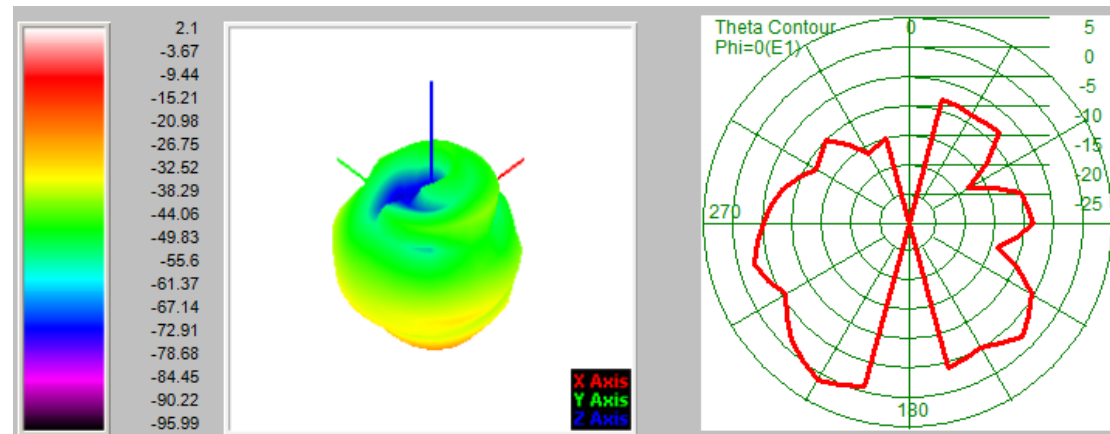
DSC1800



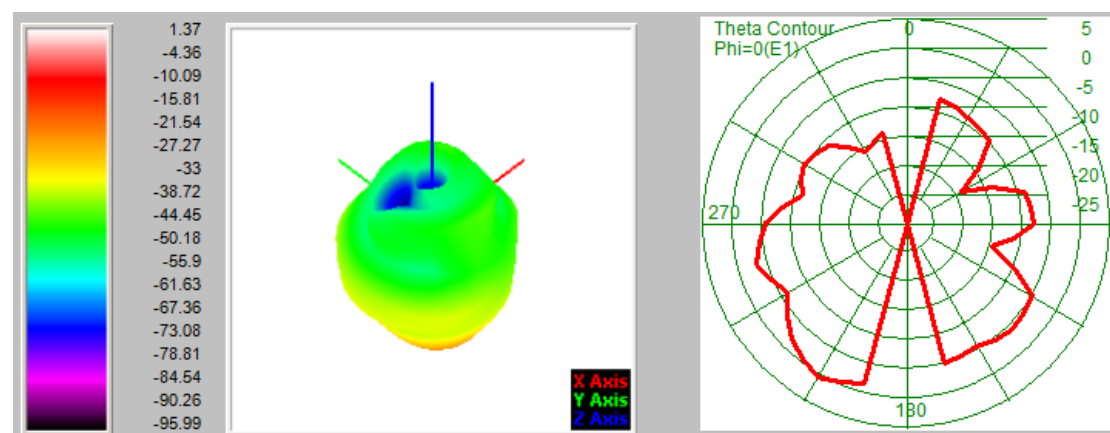
PCS1900



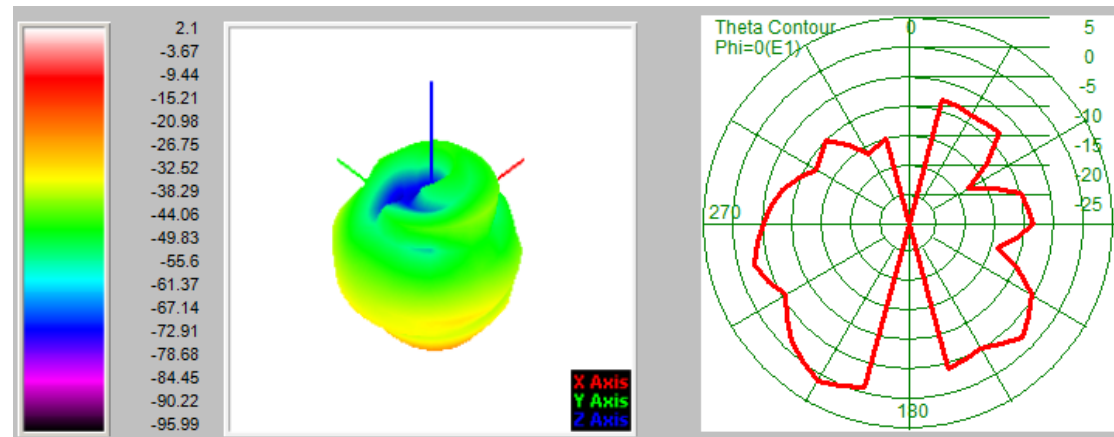
W1



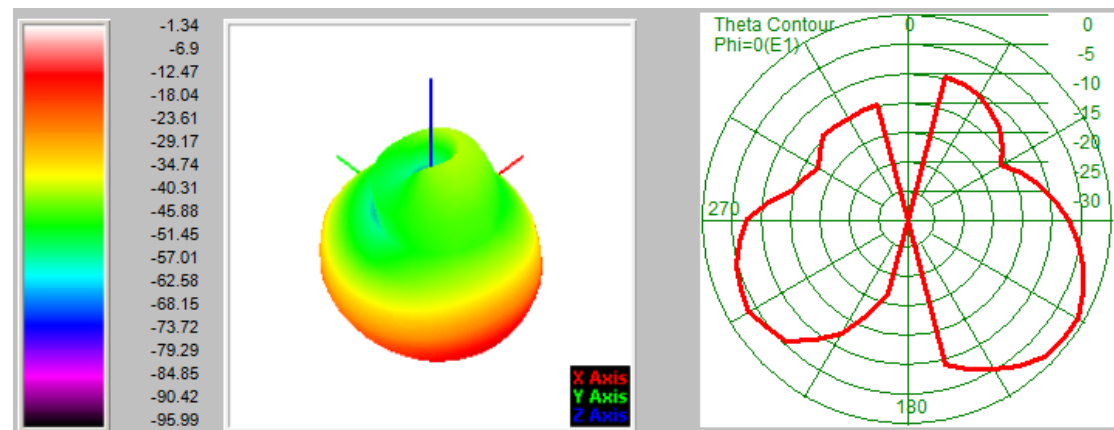
W2



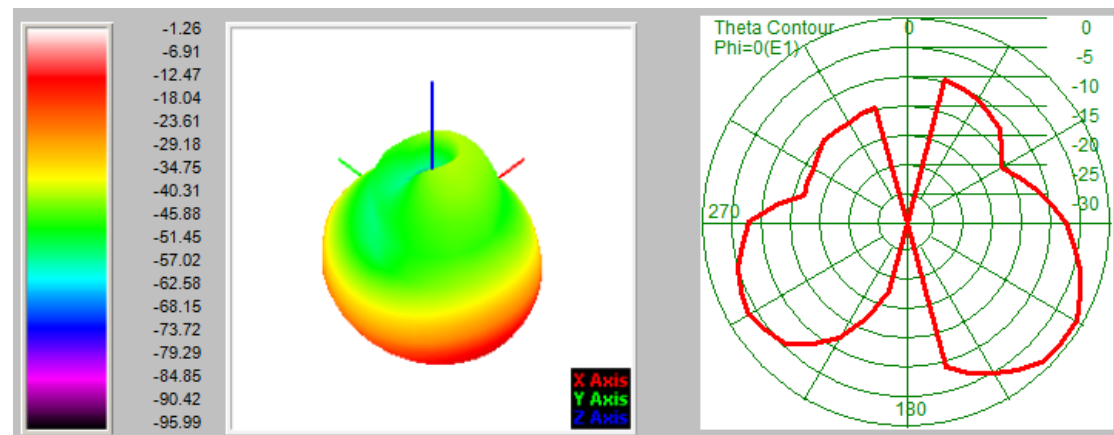
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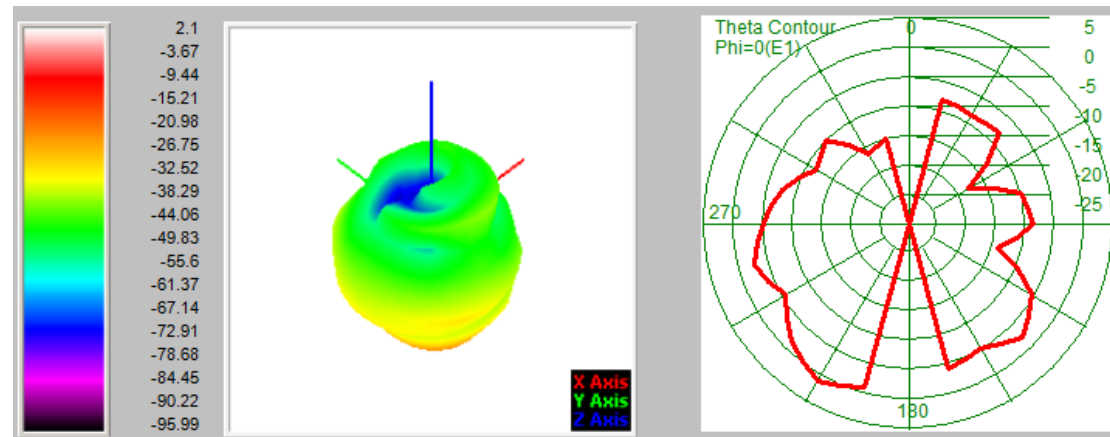
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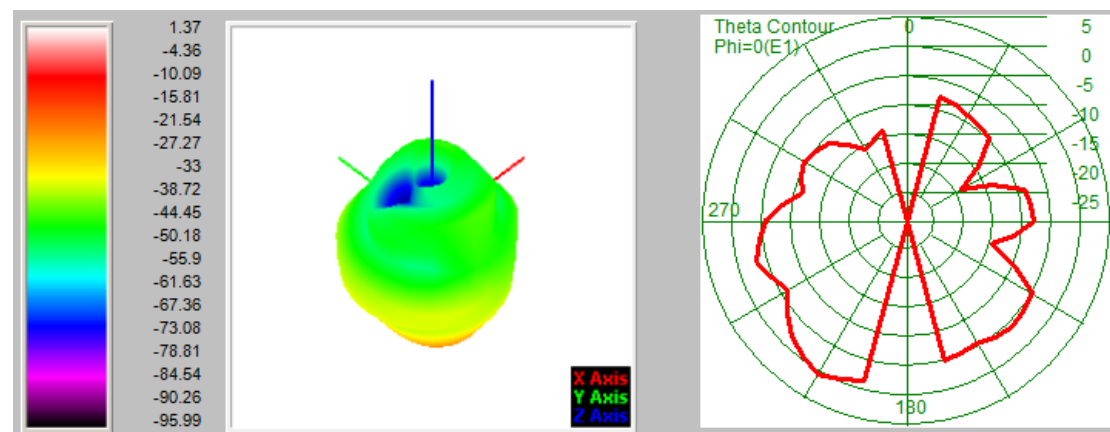
W8



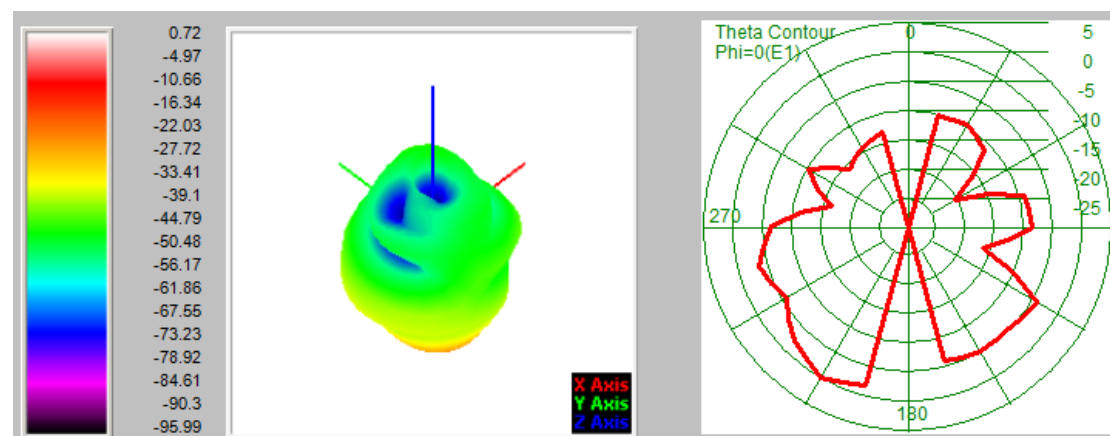
FDD-B1



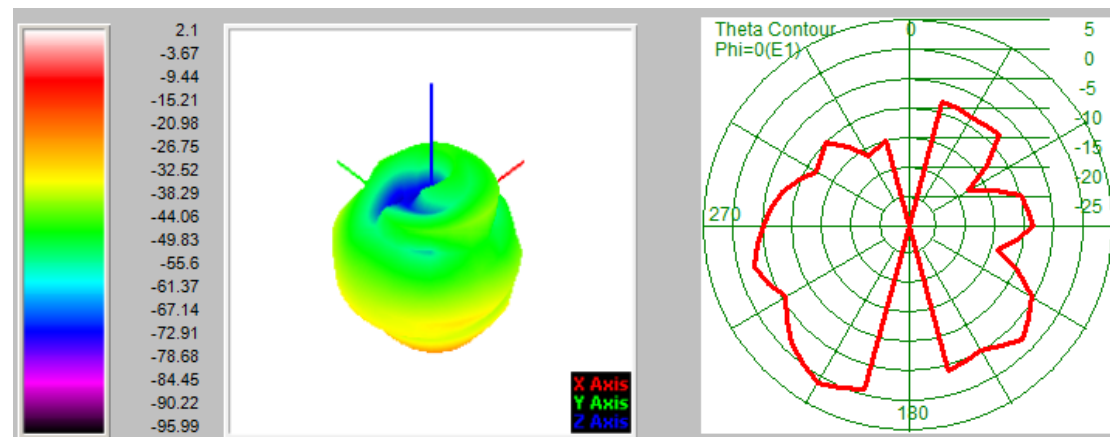
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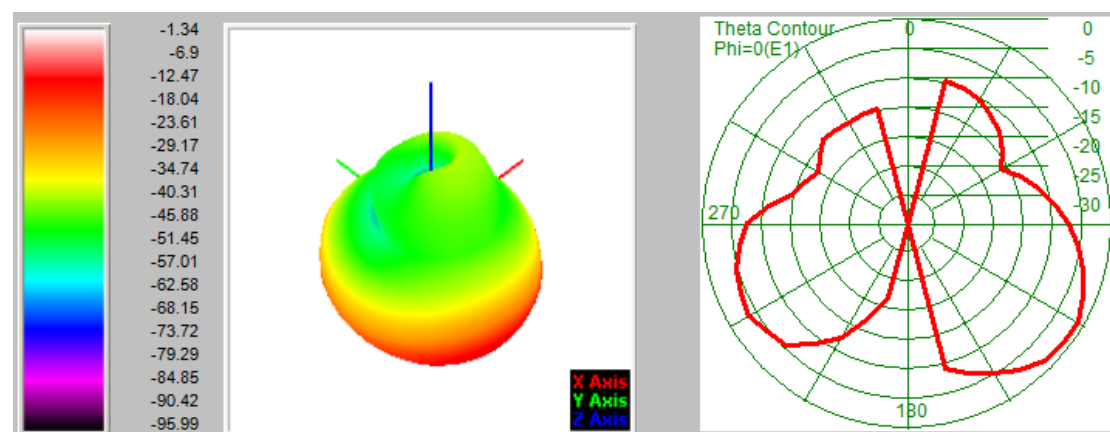
FDD-B3



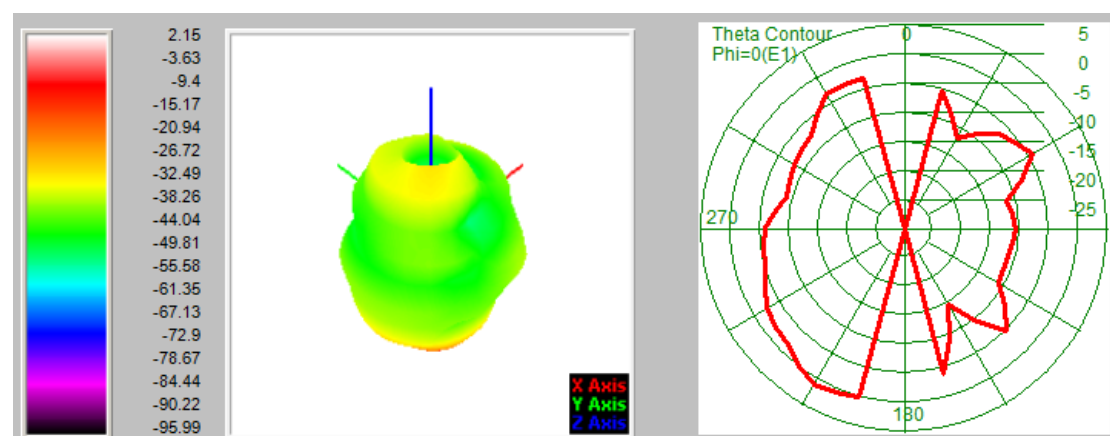
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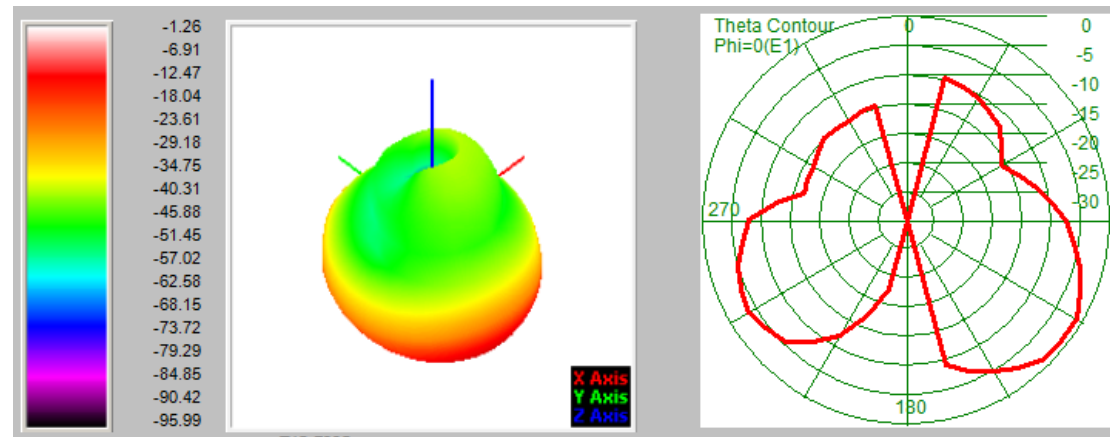
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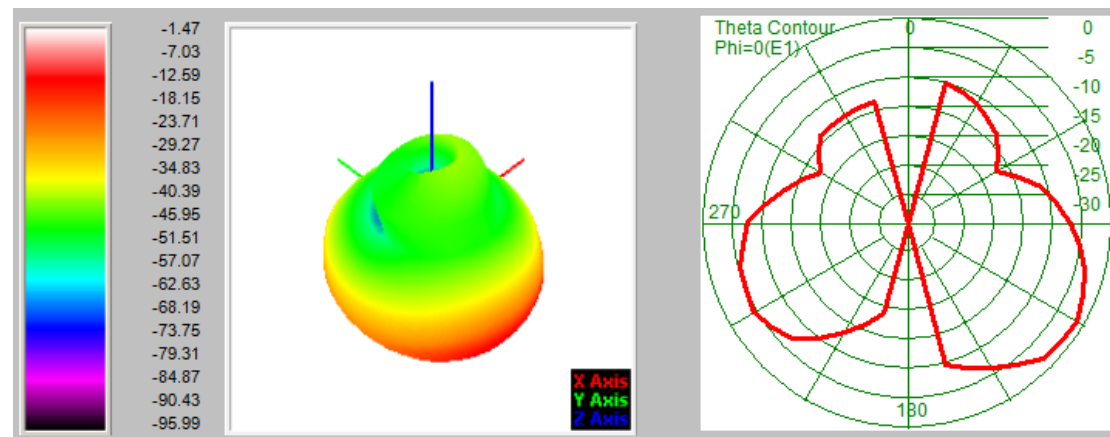
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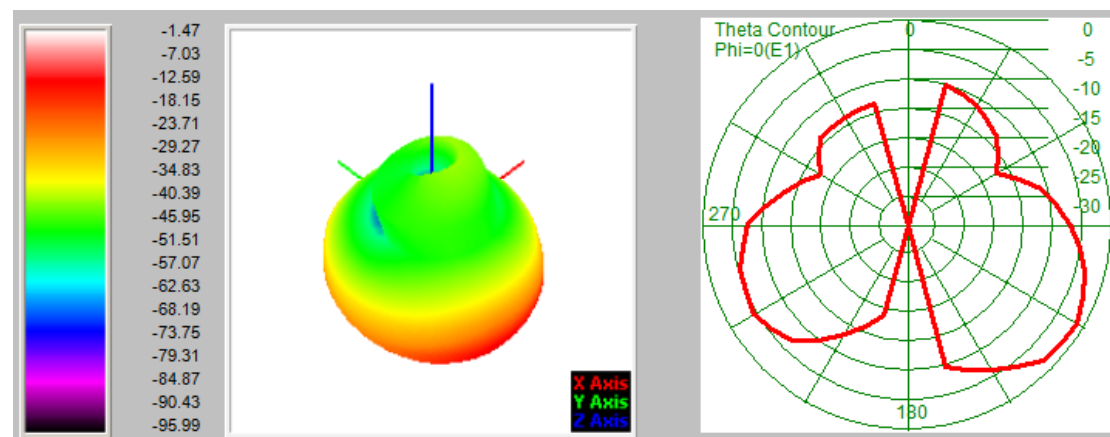
FDD-B8



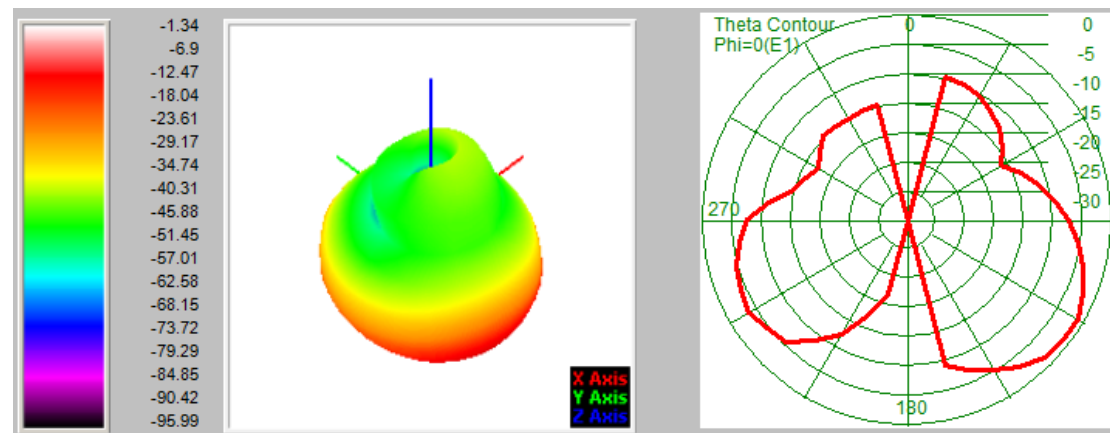
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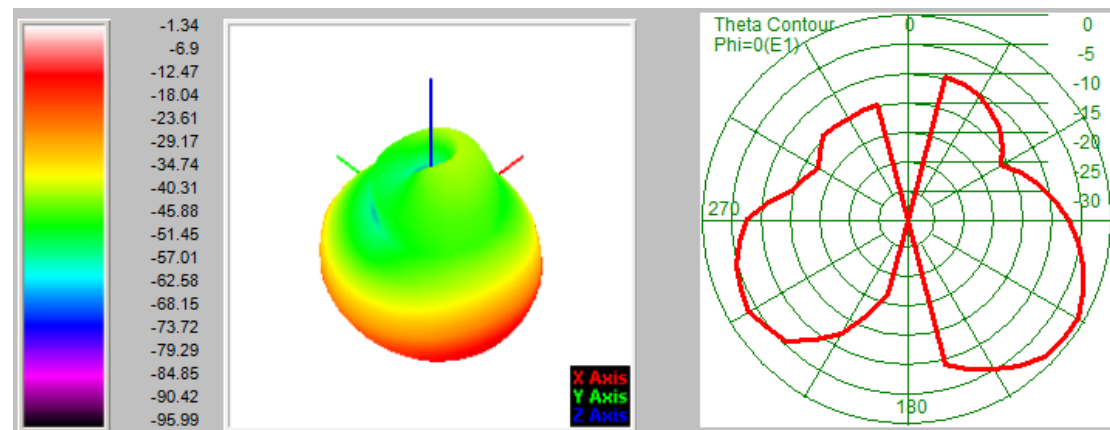
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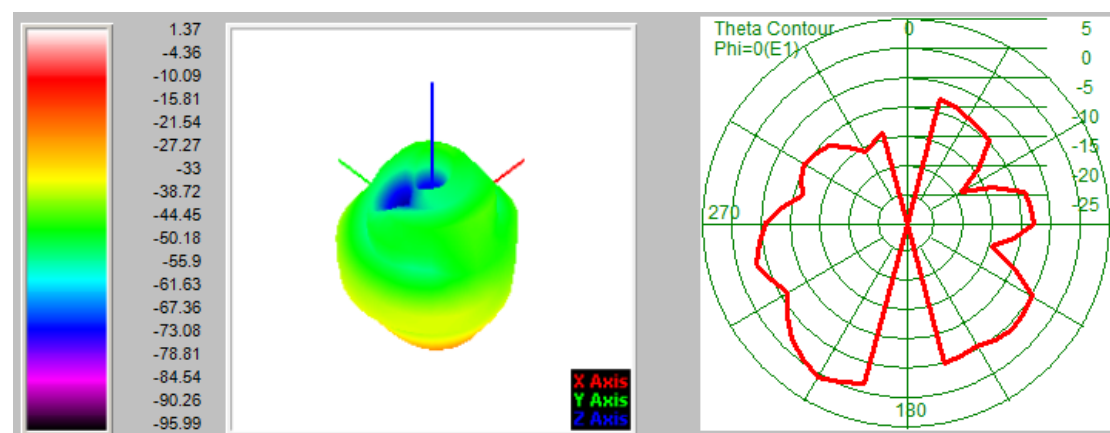
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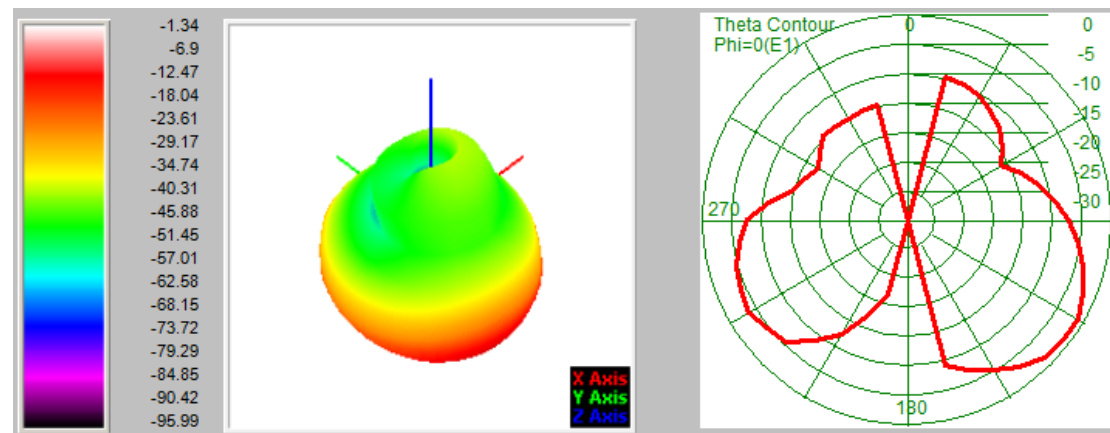
FDD-B20



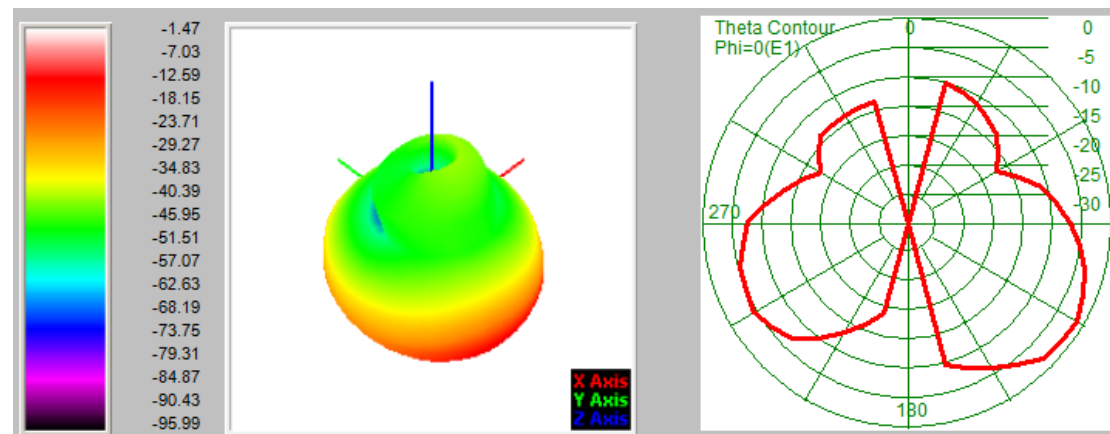
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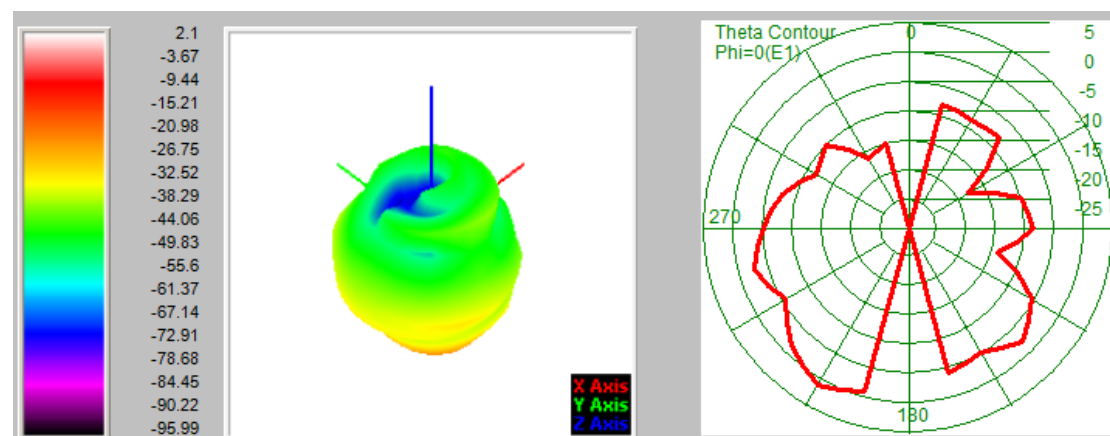
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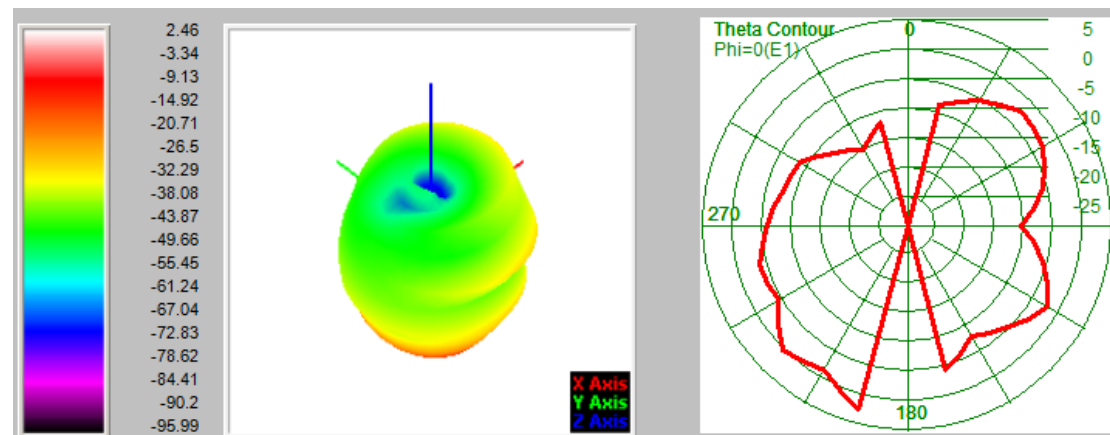
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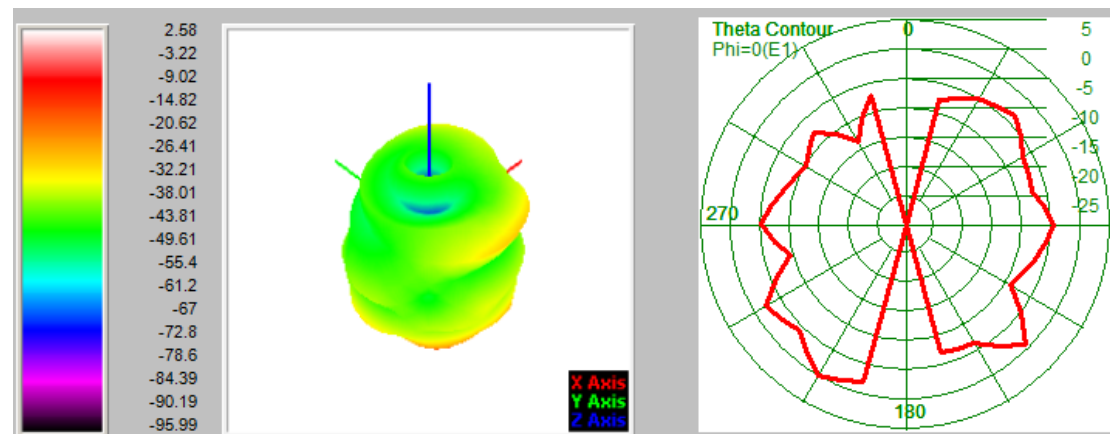
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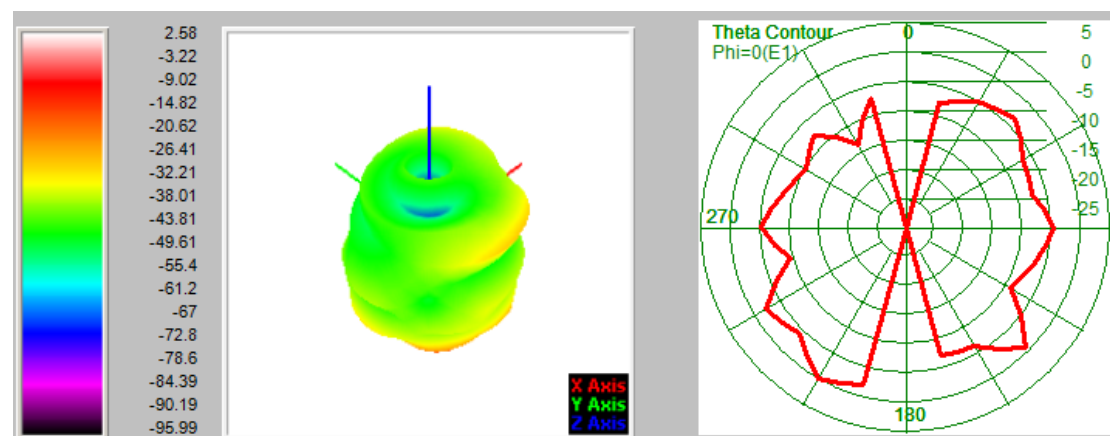
GPS



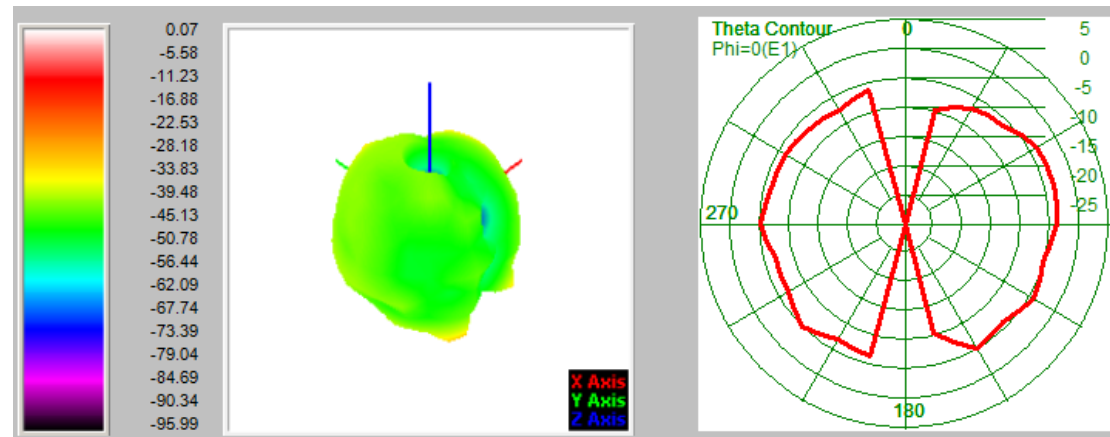
BT



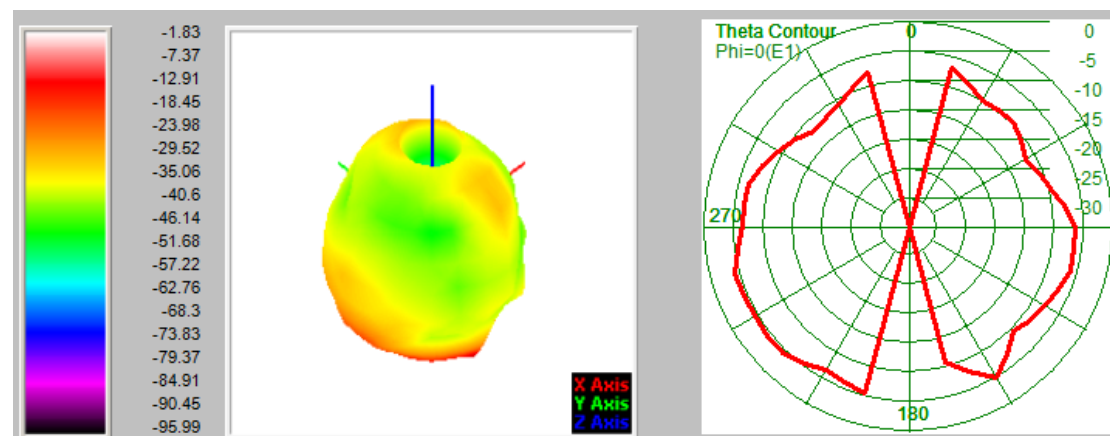
2.4G-WIFI



5.1G-WIFI



5.8G-WIFI



9.Introduction to Antenna Information

S6601-06C/06D	
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