

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna test data report

Customer: Hengchangsheng

Model:: UWS68

Frequency range:

2G (850/900/1800/1900)

3G (W2/4/5)

4G (B2/4/5/12/17/66/71/41)

工程: 傅工 (137 6016 7811)

日期: 2024-12-27

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)

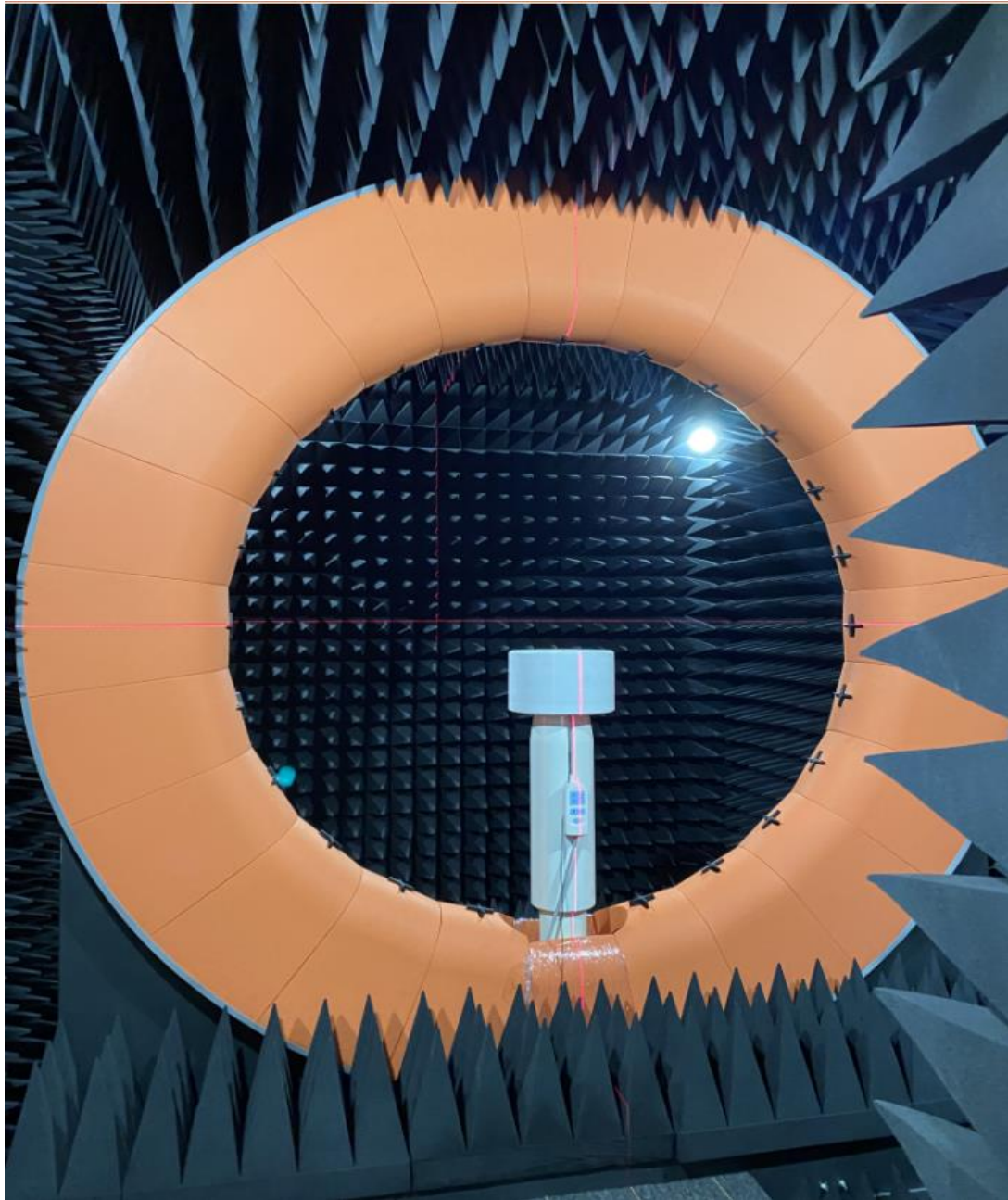


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

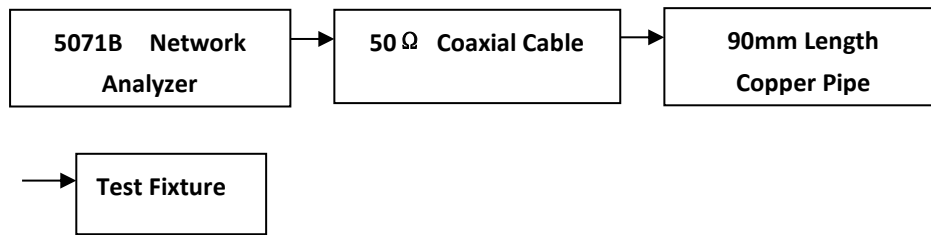
3. TestEnvironment



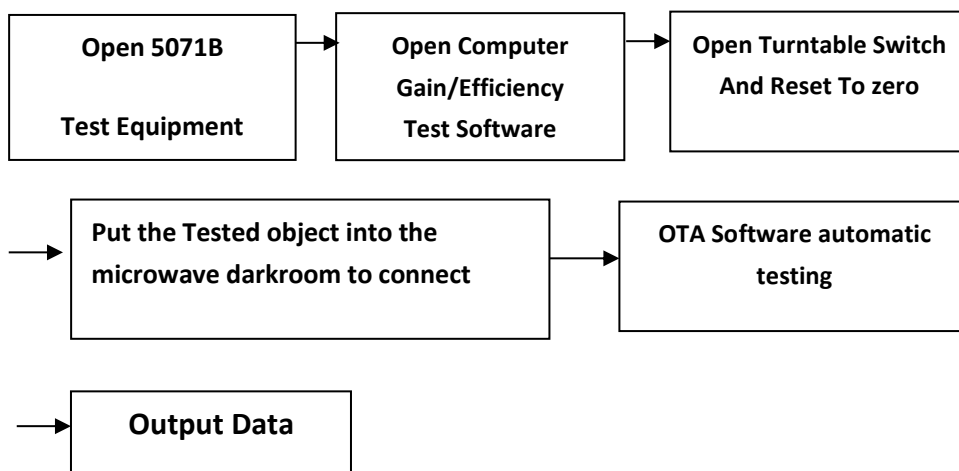
Microwave Anechoic Chamber

4.Test Steps

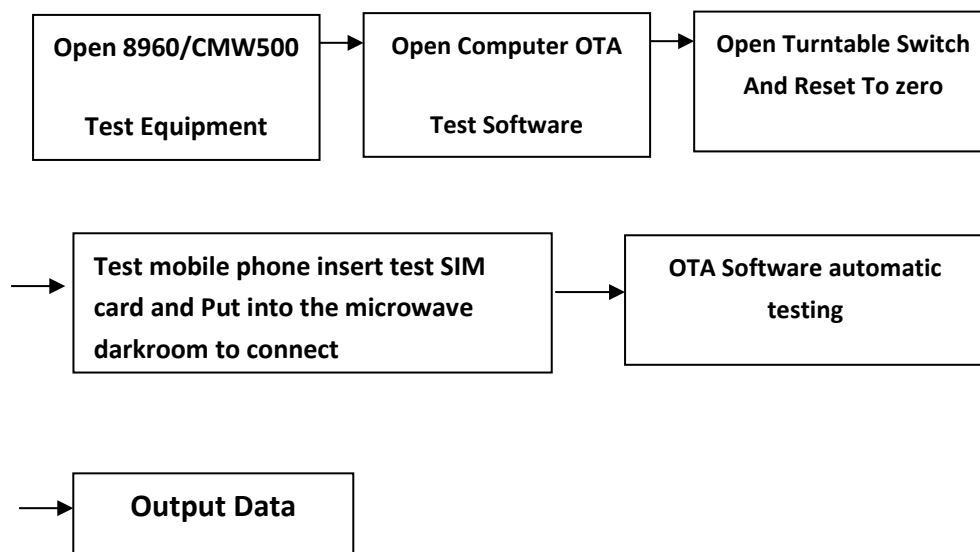
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



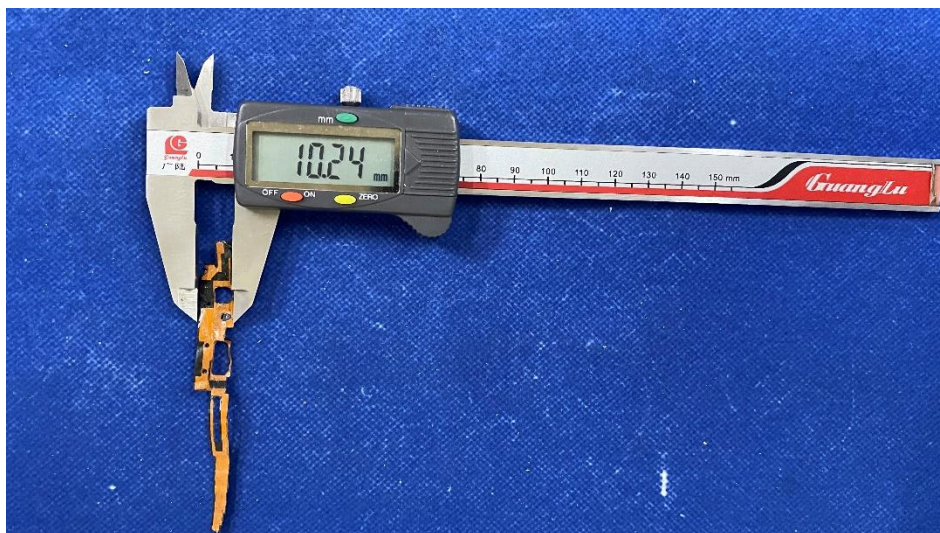
5.Antenna Gain

Band	Max Gain	Band	Max Gain
GSM850 (824-894MHZ)	-2.16	Bluetooth (2400-2483.5MHZ)	1.33
GSM900 (880-960MHZ)	-1.54	WIFI-2.4G (2400-2495MHZ)	1.33
DCS1800 (1710-1880MHZ)	1.47	GPS (1575.4MHZ)	-0.01
PCS1900 (1850-1990MHZ)	2.44		
WCDMA2 (1950-1990MHZ)	2.44		
WCDMA4 (1710-2155MHZ)	0.97		
WCDMA5 (824-894MHZ)	-2.16		
LTE-B2 (1850-1990MHZ)	2.44		
LTE-B4 (1710-2155MHZ)	0.97		
LTE-B5 (824-894MHZ)	-2.16		
LTE-B12 (699-746MHZ)	-2.58		
LTE-B17 (704-746MHZ)	-2.58		
LTE-B66 (1715-2170MHZ)	0.97		
LTE-B71 (617-698MHZ)	-2.42		
LTE-B41 (2496-2690MHZ)	0.89		

6. Antenna photos

MAIN Antenna





Diversity antenna

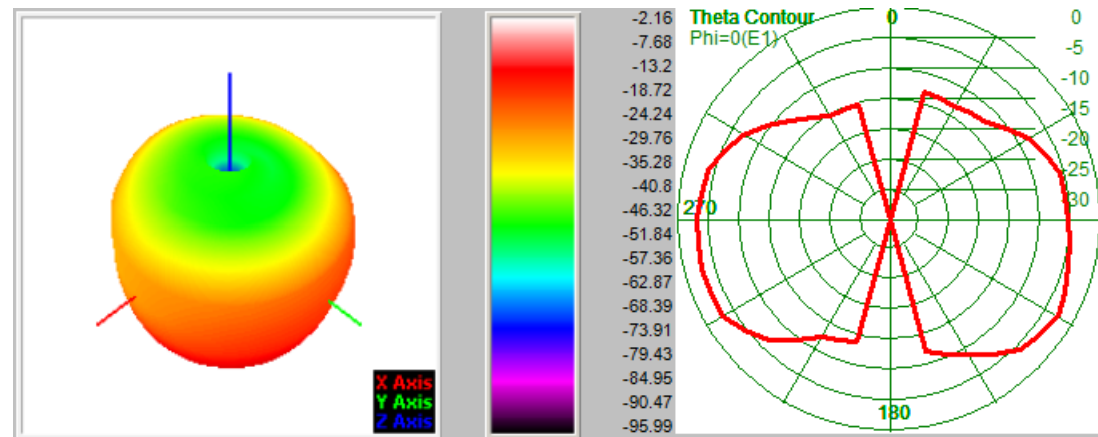


BT/WIFI Antenna

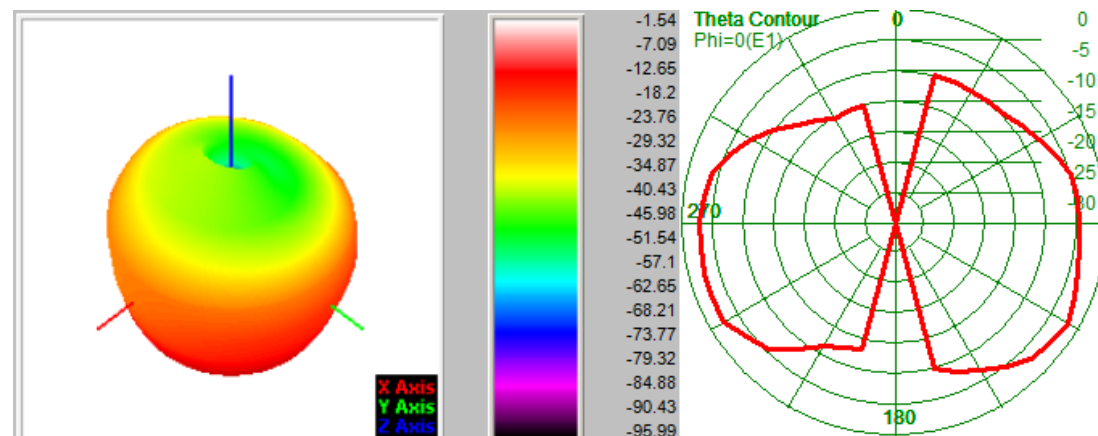


7.2D&3D Lobe Diagram

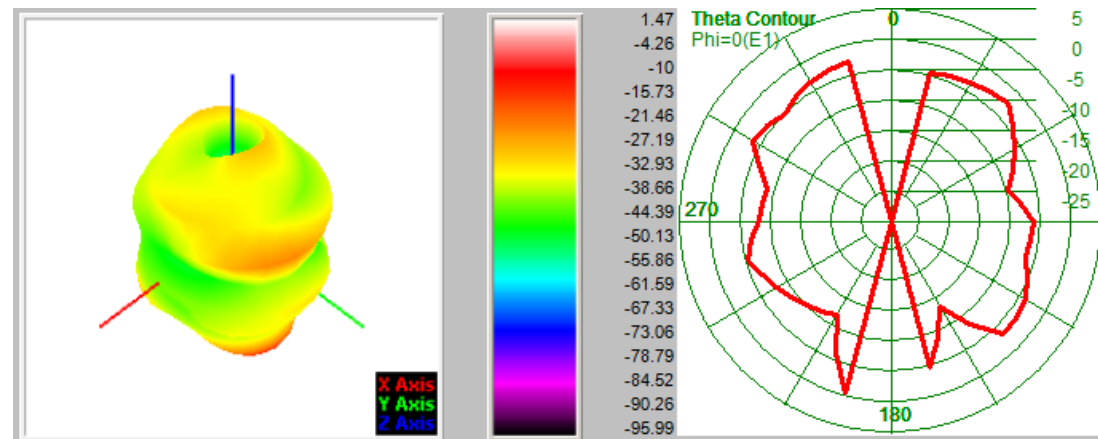
GSM850



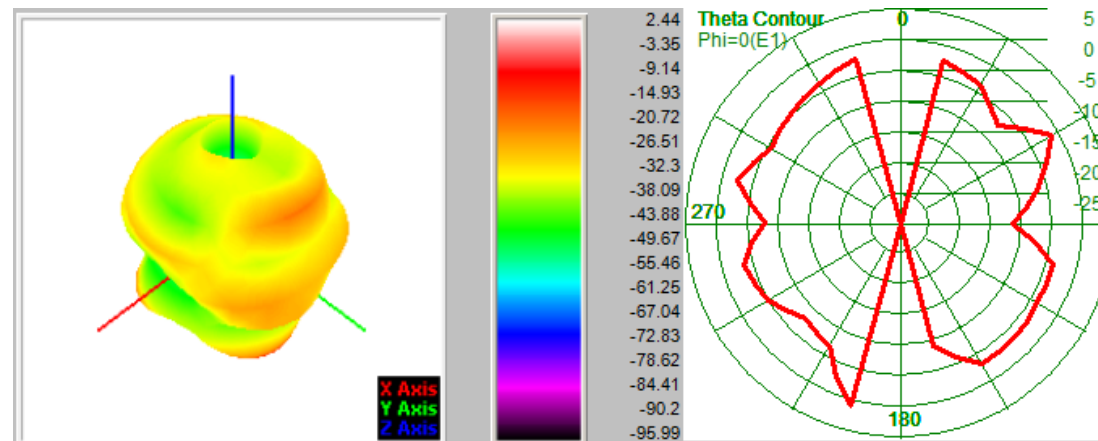
GSM900



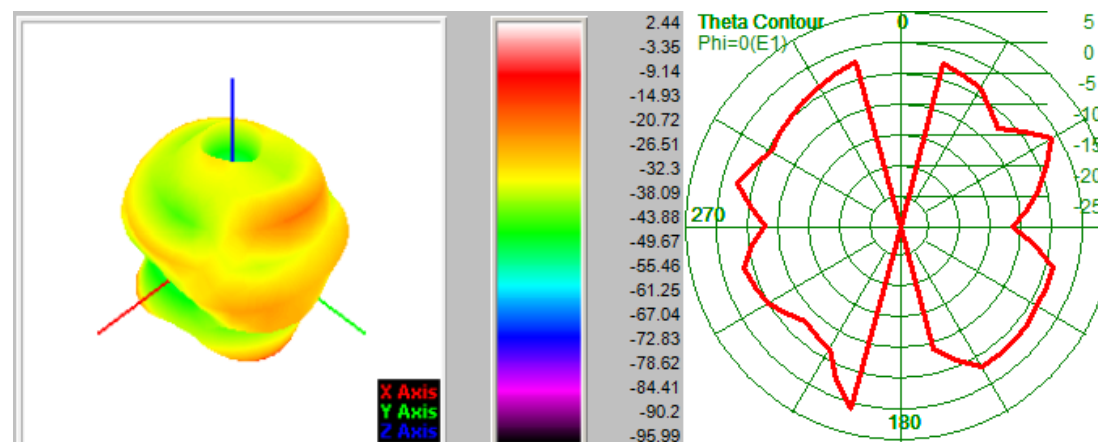
DSC1800



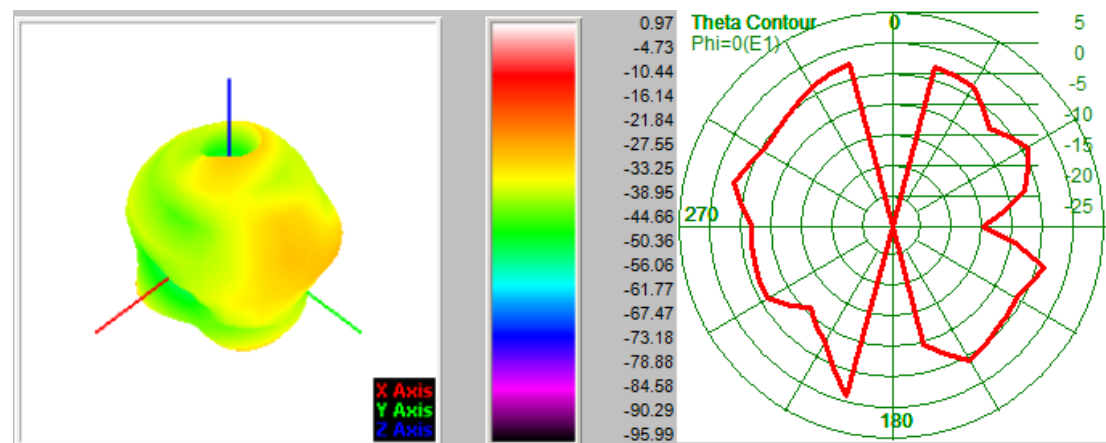
PCS1900



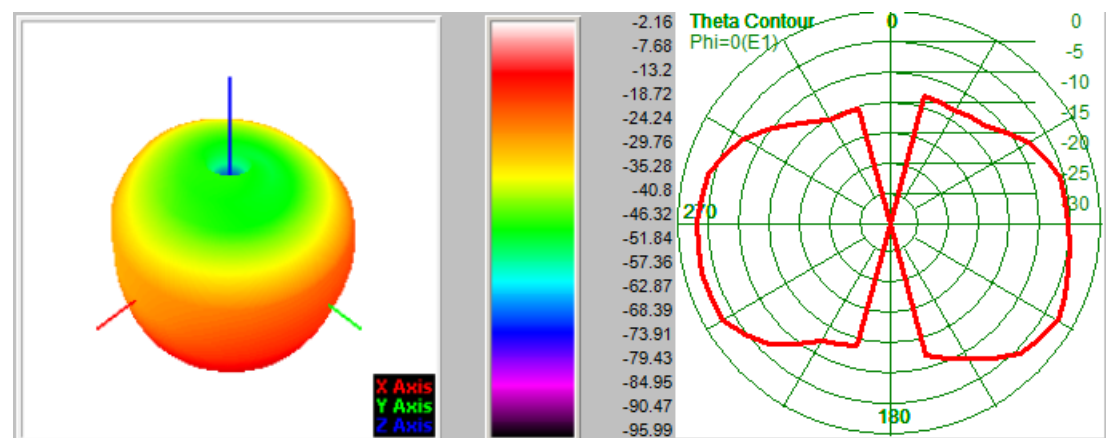
W2



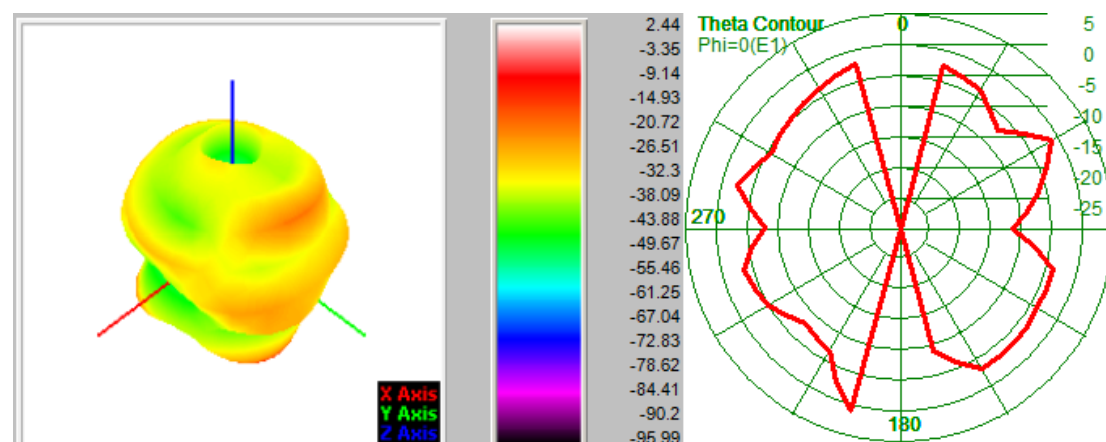
W4



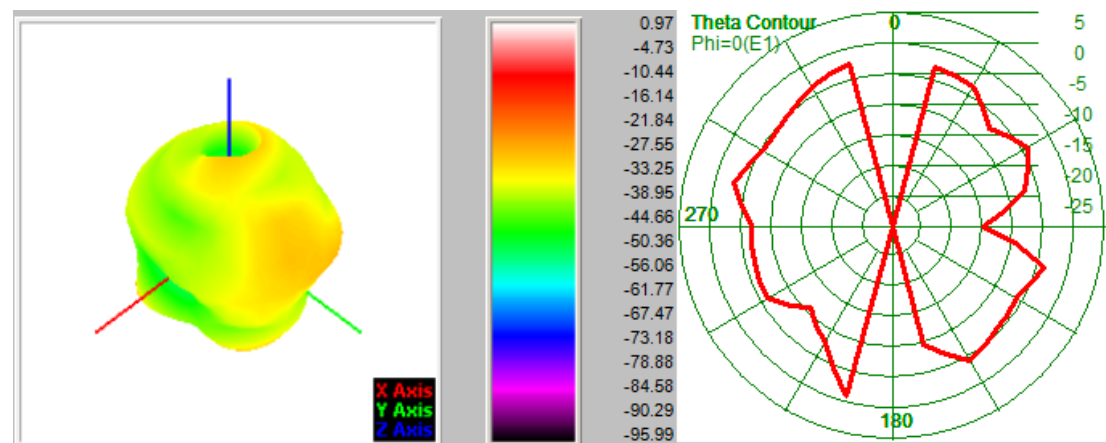
W5



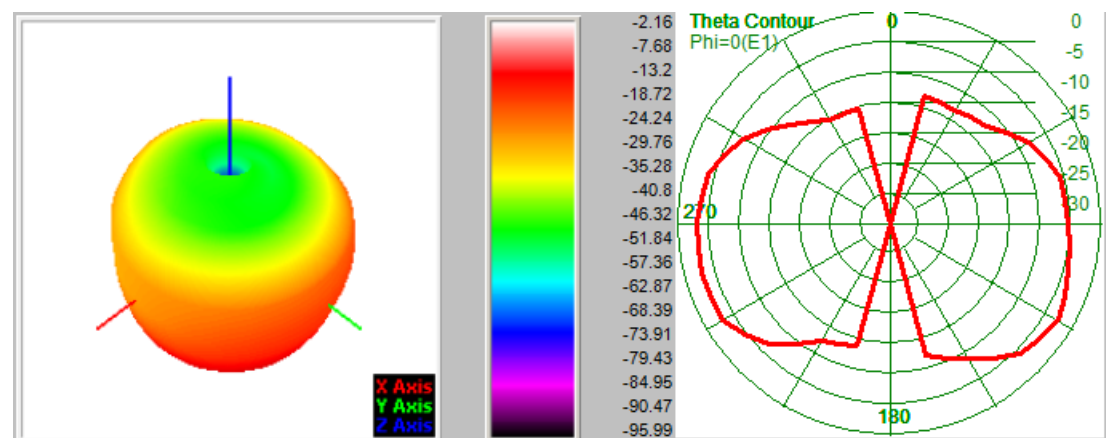
FDD-B2



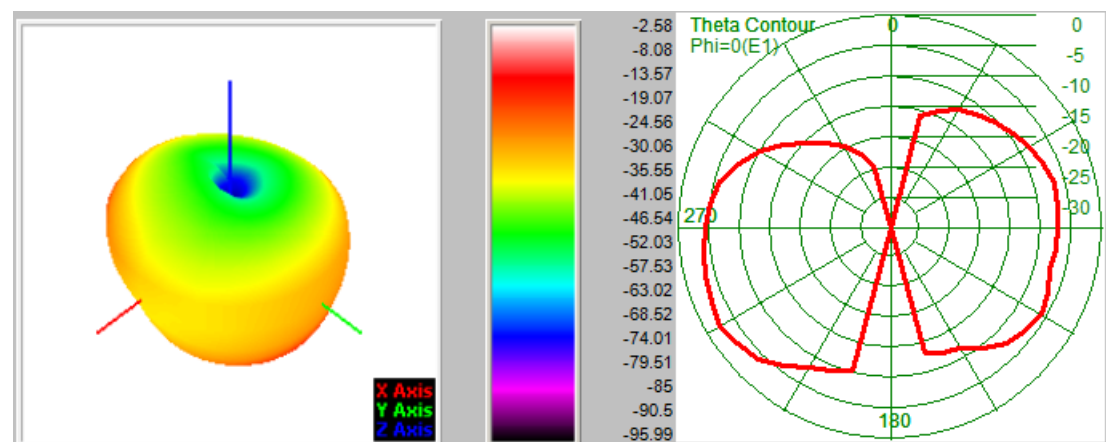
FDD-B4



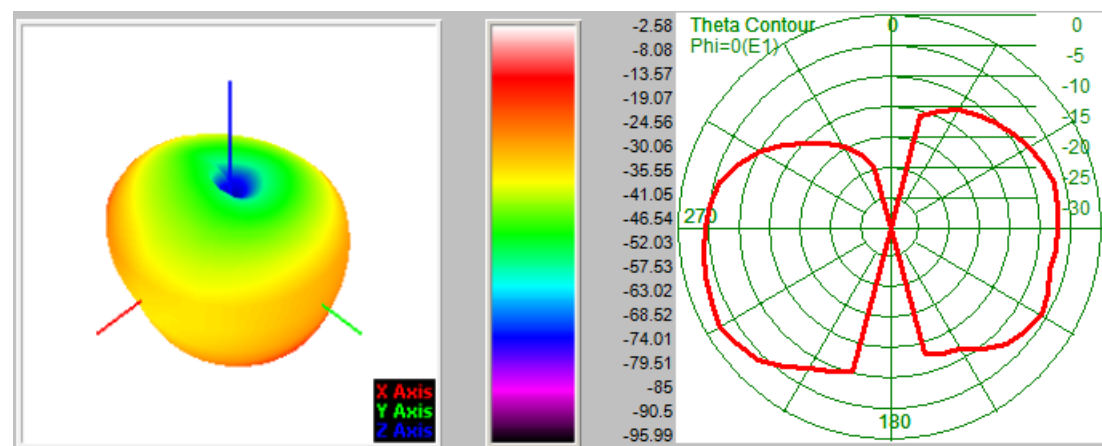
FDD-B5



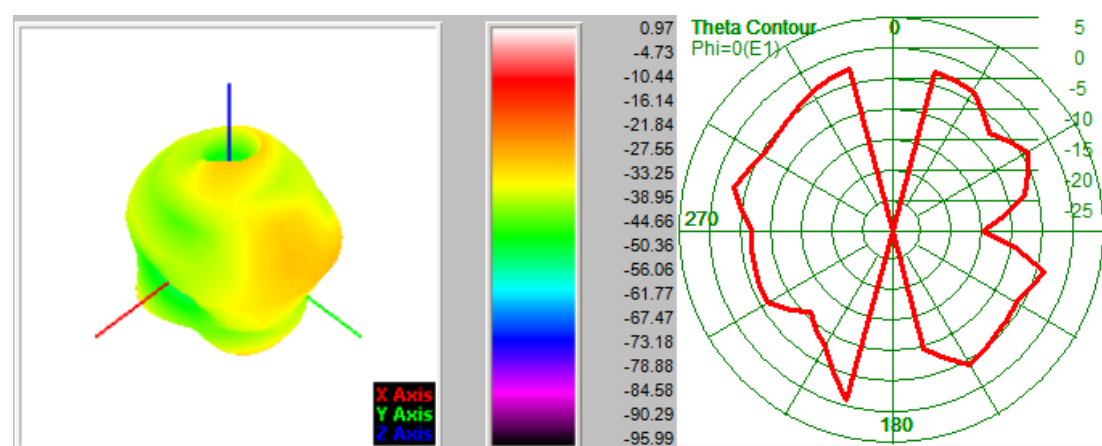
FDD-B12



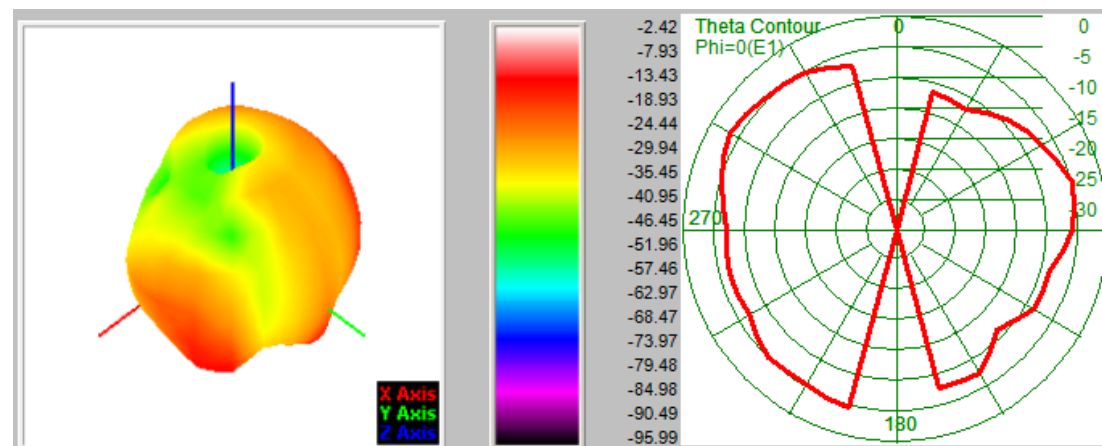
FDD-B17



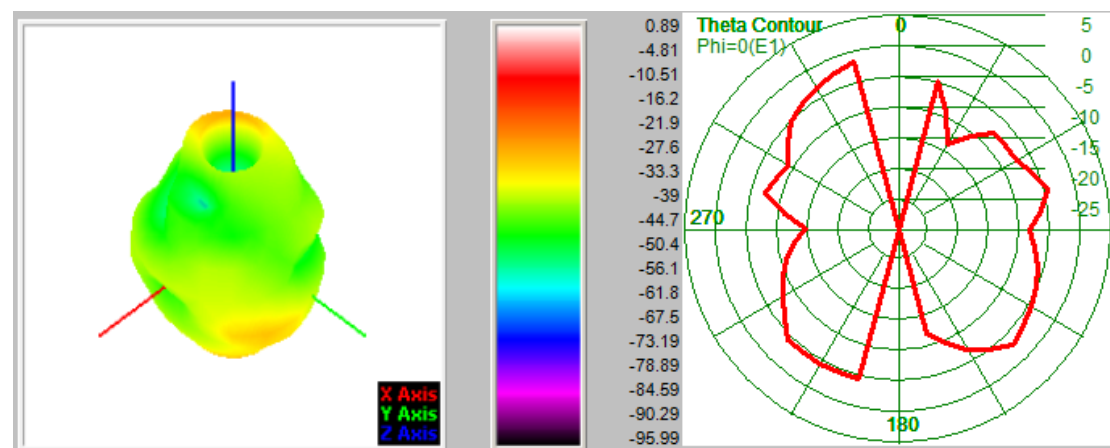
FDD-B66



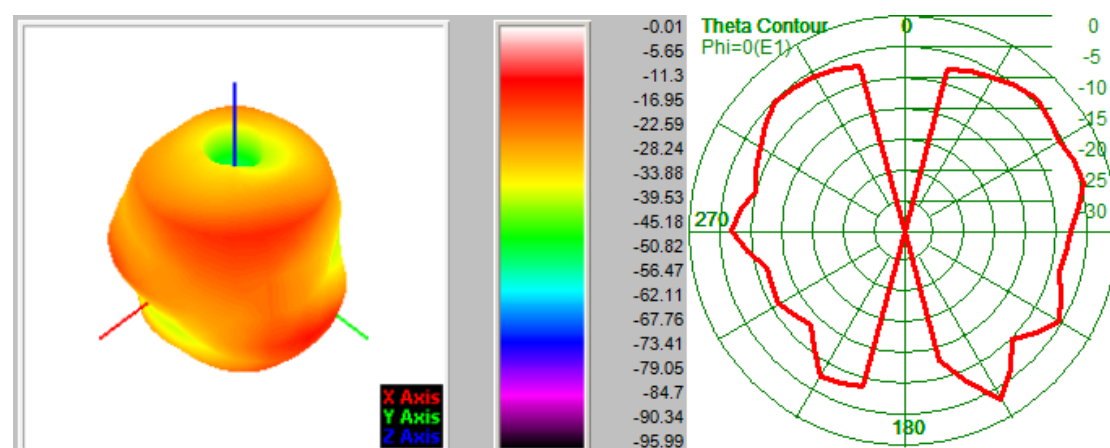
FDD-B71



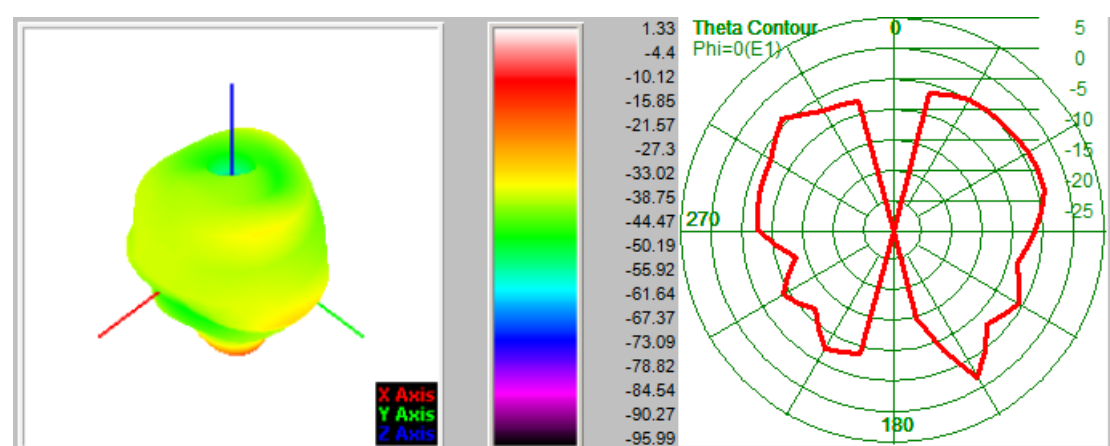
TDD-B41



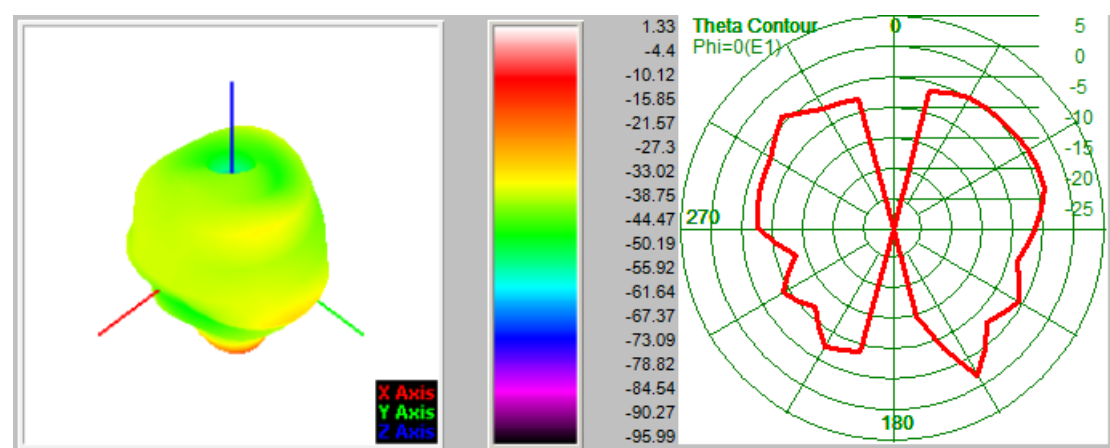
GPS



BT



2.4G-WIFI



8.Introduction to Antenna Information

S66B1	
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/BT
Antenna materia	FPC