

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

project: R08

Band: 2G--B2/3/5/8

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

4G--B1/2/3/4/5/7/8/12/71/18/19/20/25/26/28/38/39/40/41/66

Design Engineer: Fu (137 6016 7811)

date: 2025-10-23

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Tairan IndustrialandTradePark,Chegongmiao,FutianDistrict,Shenzhen

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)

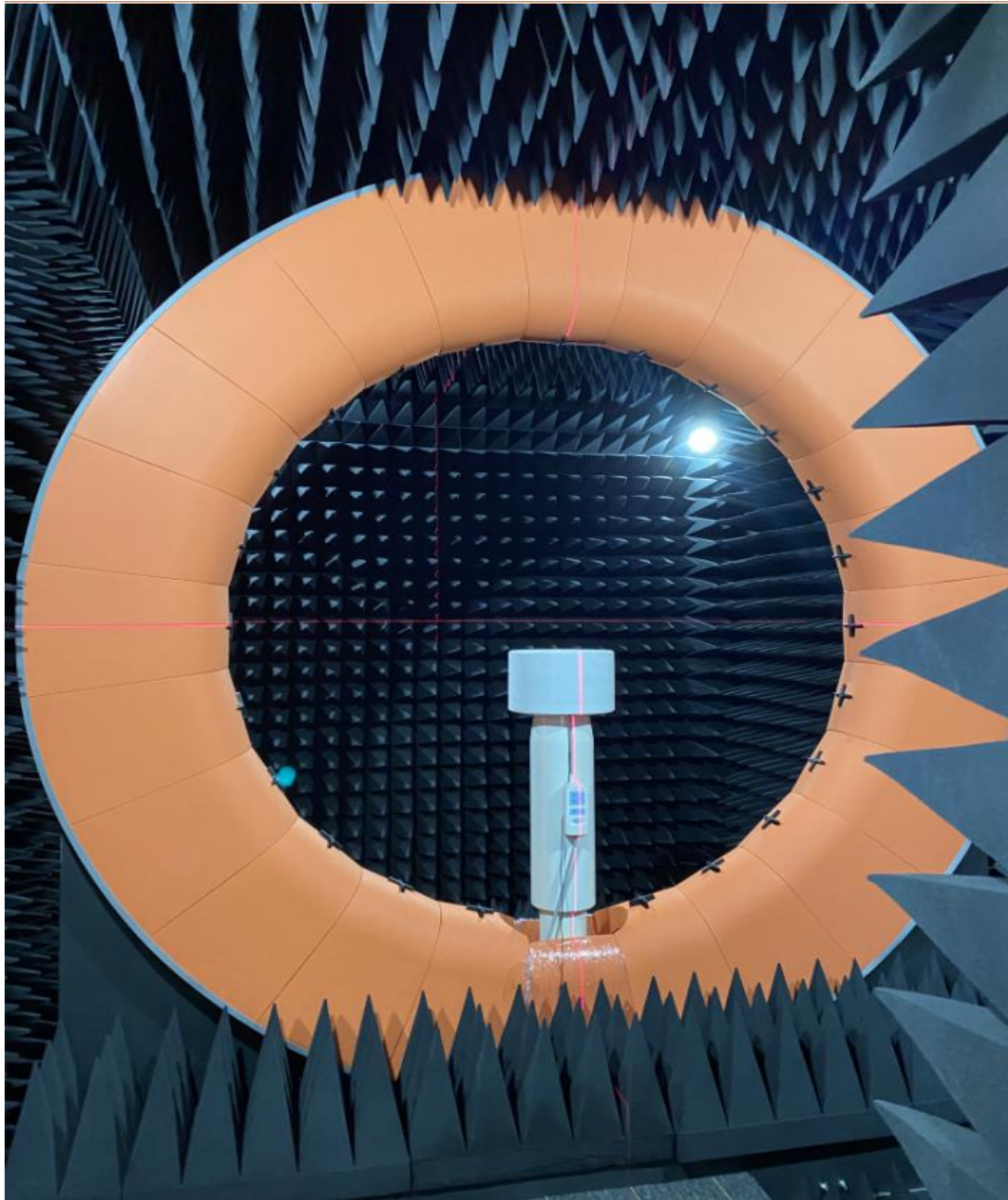


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

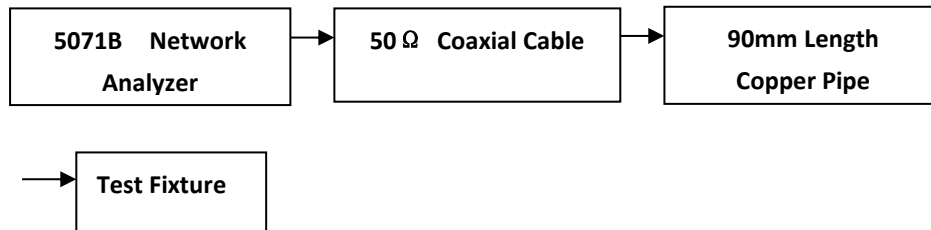
3. TestEnvironment



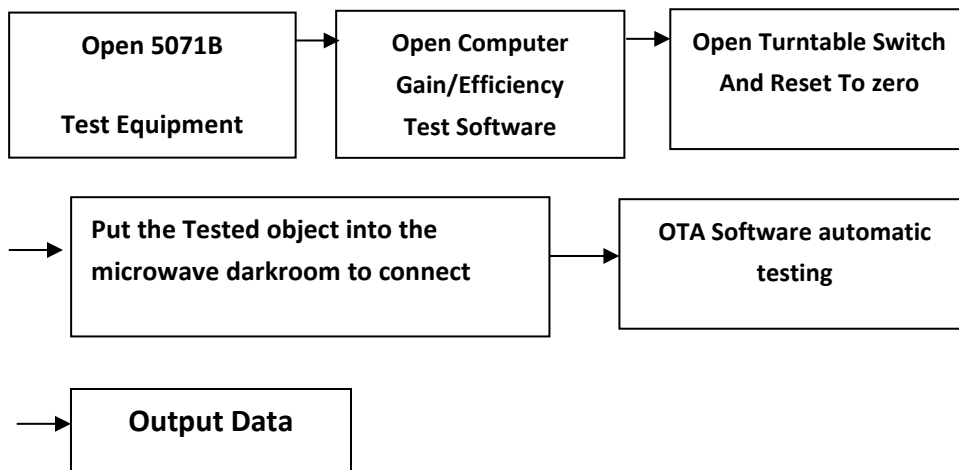
Microwave Anechoic Chamber

4.Test Steps

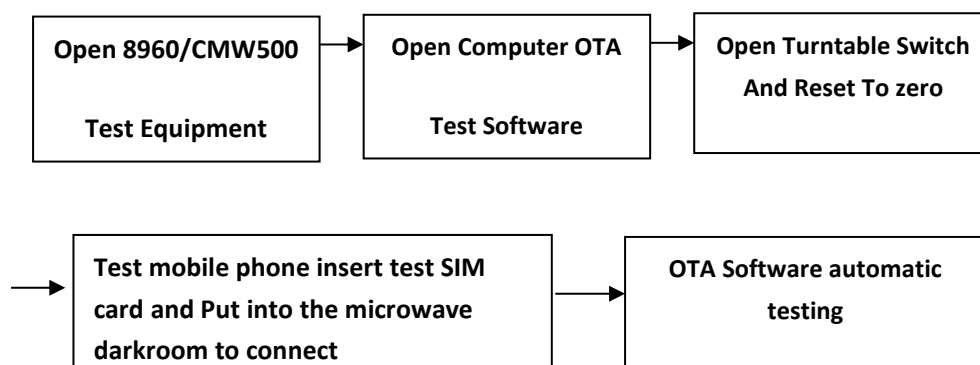
Passive VSWR/RL Test Steps:



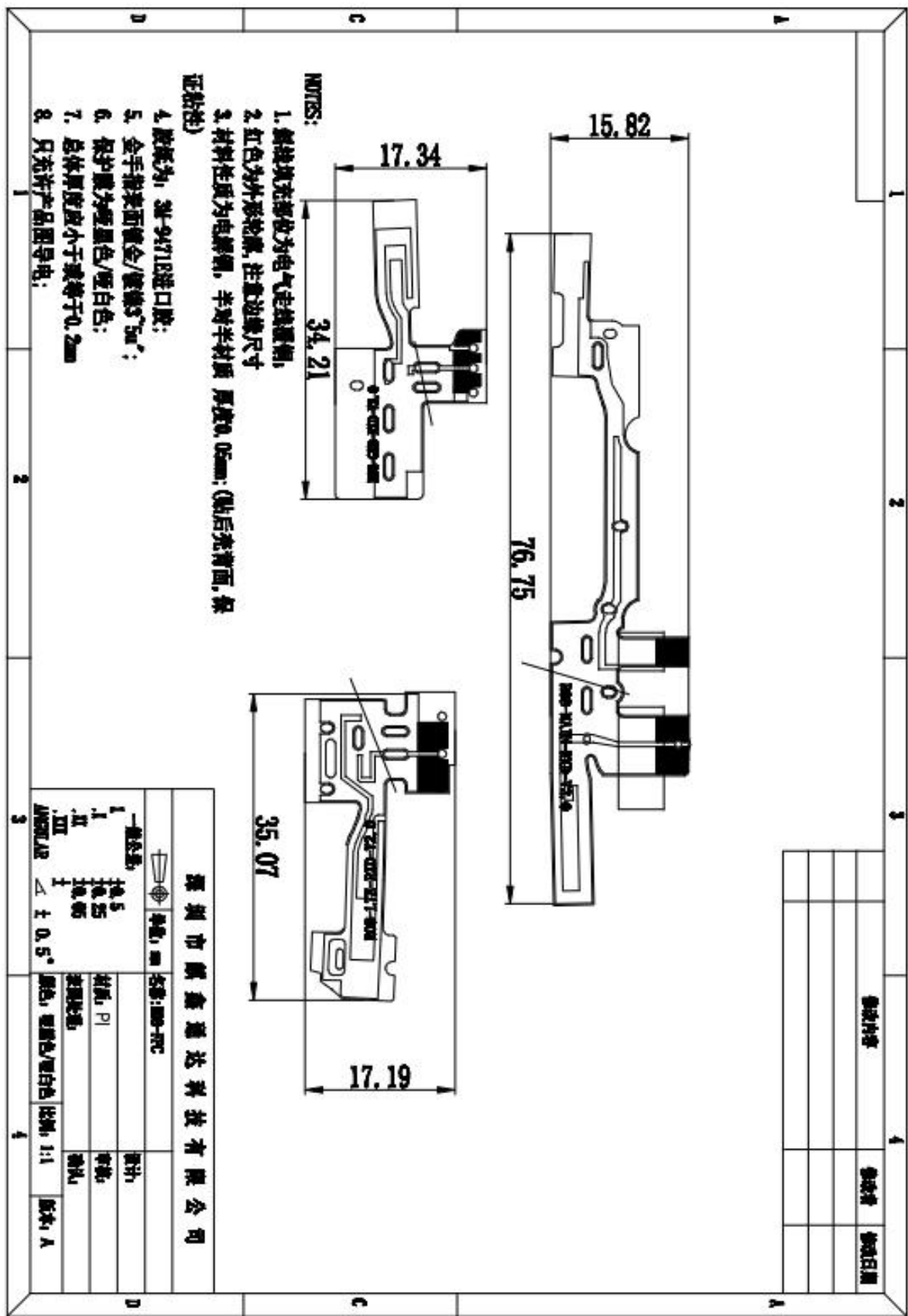
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5.Antenna Dimensions



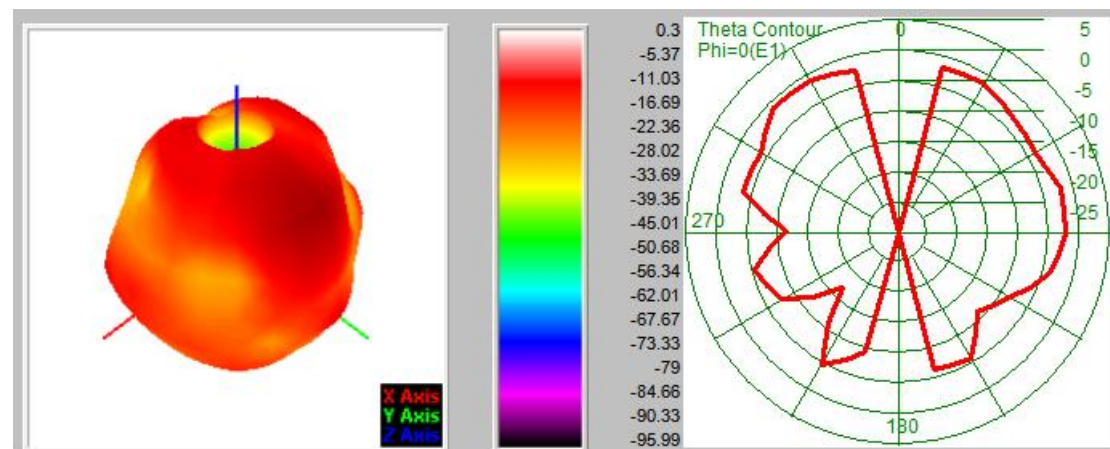
6. Antenna Gain(dBi)

Band	Max Gain	Band	Max Gain
GSM850(824-894MHz)	-2.5	LTE-B38(2570-2620)	1.1
GSM900(880-960MHz)	-2.3	LTE-B39(1880-1920)	0.6
DCS1800(1710-1880MHz)	0.4	LTE-B40(2300-2400)	0.7
PCS1900(1850-1990MHz)	0.6	LTE-B41(2496-2690)	1.1
WCDMA1(1920-2170MHz)	0.3		
WCDMA2(1850-1990MHz)	0.6		
WCDMA4(1712-2153MHz)	0.4		
WCDMA5(826-892MHz)	-2.5		
WCDMA8(882-958MHz)	-2.3		
LTE-B1(1920-2170)	0.3		
LTE-B2(1850-1990)	0.6		
LTE-B3(1710-1880)	0.4		
LTE-B4(1710-2155)	0.4		
LTE-B5(824-894)	-2.5		
LTE-B7(2500-2690)	1.1		
LTE-B8(880-960)	-2.3		
LTE-B12(699-746)	-3.8		
LTE-B17(704-746)	-3.8		
LTE-B18(815-875)	-2.5		
LTE-B19(830-890)	-2.5		
LTE-B20(791-862)	-2.5		
LTE-B25(1850-1995)	0.6		
LTE-B26(814-894)	-2.5		
LTE-B28(703-803)	-3.8		
LTE-B66(1710-2200)	0.4		

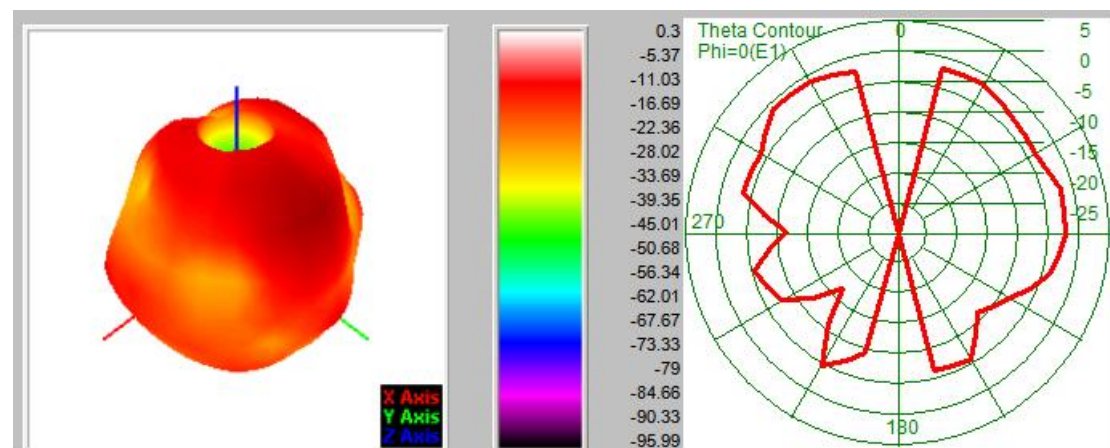
(L1/BT/WIFI2.4/5150-5.850G/GPS)	
Band	Max Gain
Bluetooth(2402-2480)	0.3
WIFI-2.4(2412-2484)	0.3
WIFI-5.1(5150-5350)	1.1
WIFI-5.8(5725-5850)	1.5
GPS-L1(1575.42)	0.52

7.2D&3D Lobe Diagram

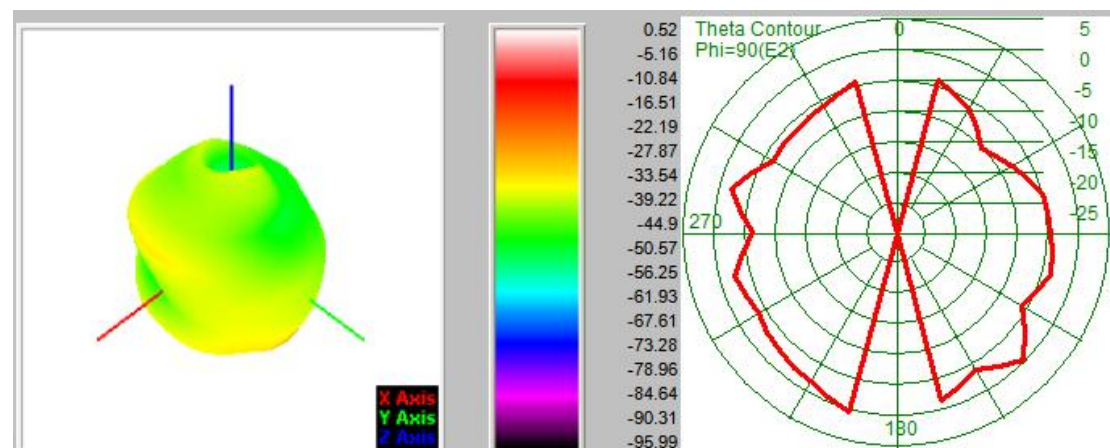
BT



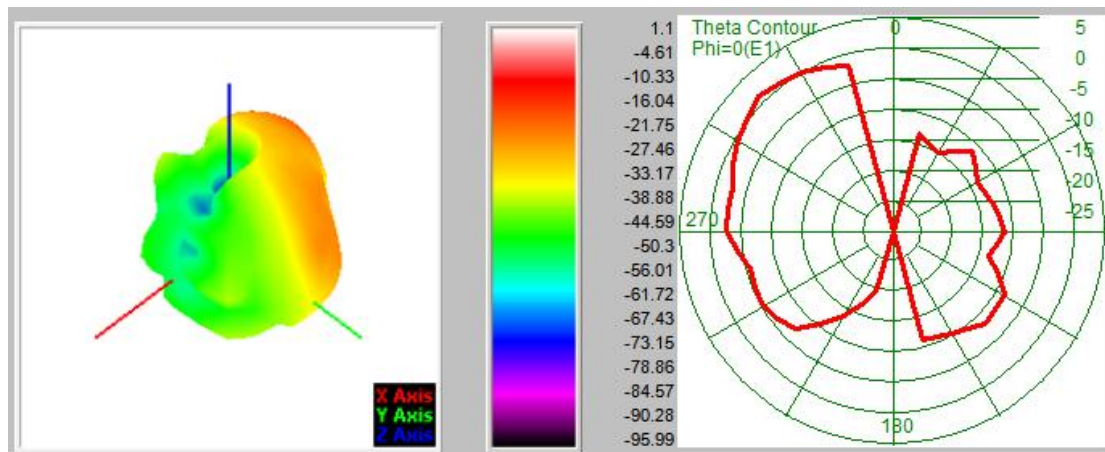
2.4GWIFI



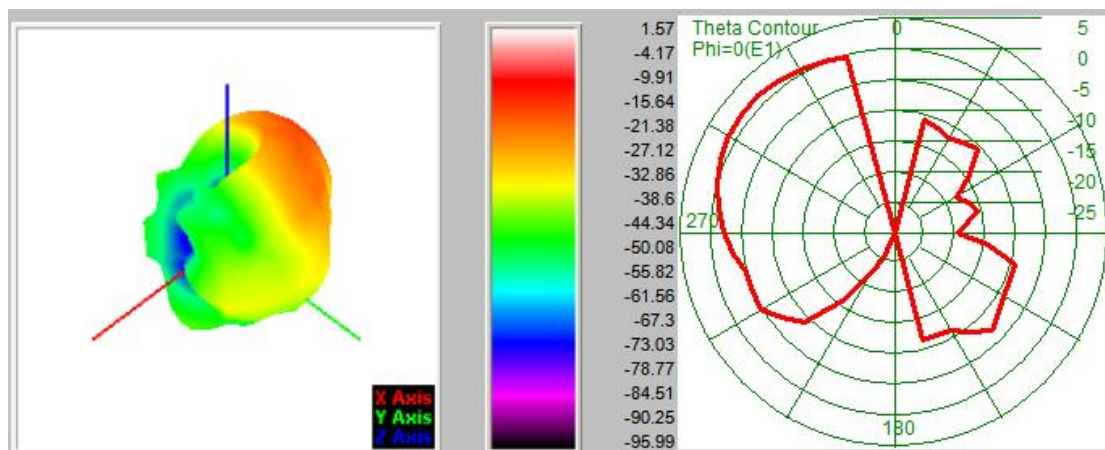
GPS-L1



5.1GWIFI



5.8GWIFI



8.Introduction to Antenna Information

R08	
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/WIFI(2.4G/5.1-5.8GWIFI)/BT
Antenna materia	FPC