

ShenZhen QiXinTong Da Technology Co.,Ltd.

Antenna Test Report

Client Name: MAIXUAN

Project Name: F41

FrequencyBand:

**GSM850/900/1800/1900+W1/2/4/5/8+BC0/BC1+LTE:B1/2/3/4/5/7/8/12
/13/17/18/19/20/25/26/28A/28B/66+TDD:B34/38/39/40/41**

RF: HU WEI QIANG (18079624365)

Company name:Shenzhen Qixin Tongda TechnoLogY Co.,LTD

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Futian District,Shenzhen

DATE: 2024-11-28

1. Test Project

2. 1.1 2G+3G+4G

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

1.2GPS/WIFI/BT

test item	testing environment	Cold start positioning time	Number of positioning stars	The highest CN values
GPS	Tian Tai	80s	More than 10	42
test item	testing environment	Hot quantity	signal intensity	HD video playback quality
WIFI	office	18	≥-50dBmMore than 7 hot spots	HD video playback without lag
test item	testing environment	Maximum matching distance	Normal call distance of the Bluetooth headset	Bluetooth speaker music playback smooth distance
BT	office	11m	9m	10m

2. Test Equipment



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

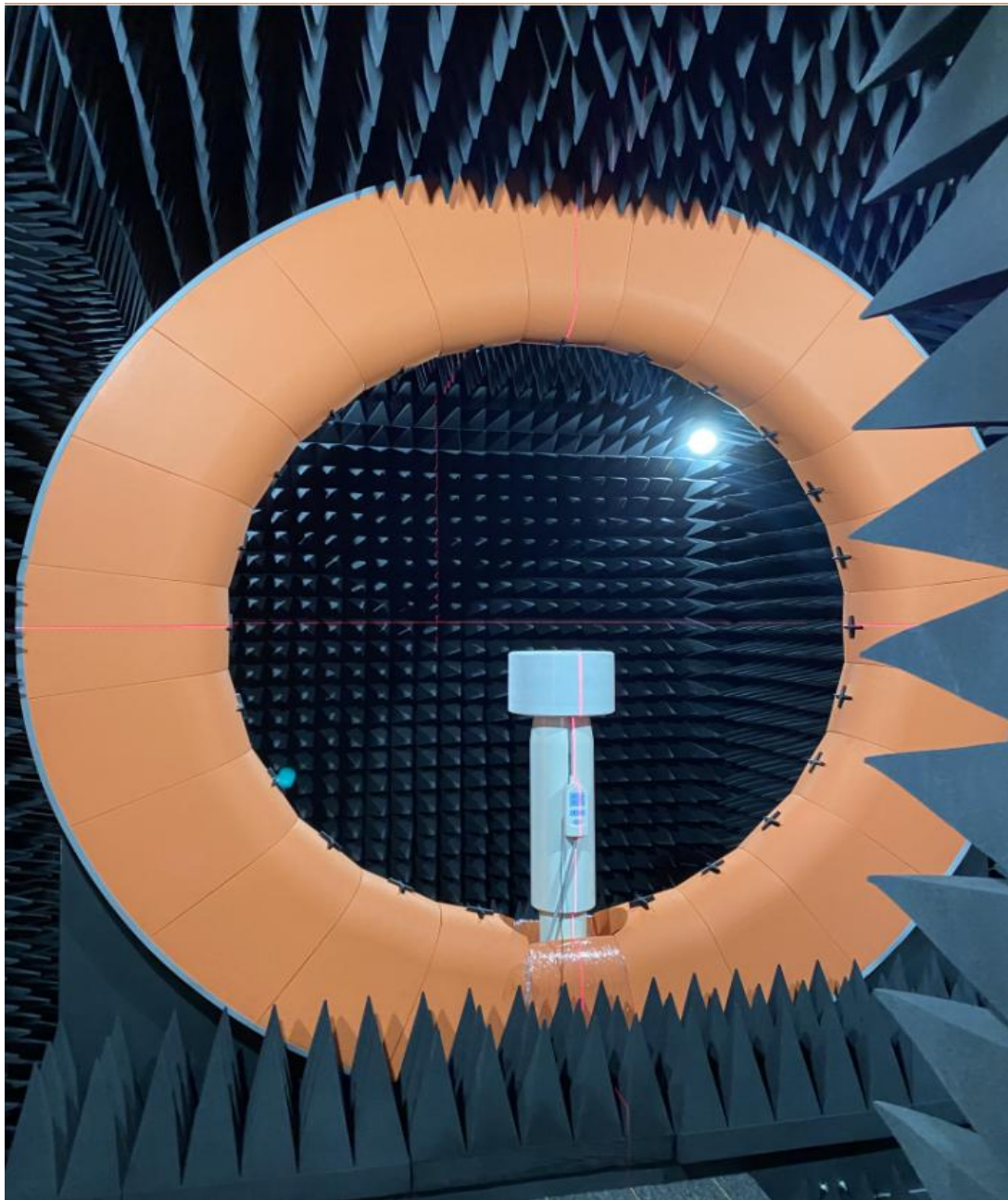


Agilent 8960 (2G/3GTest Equipment)



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

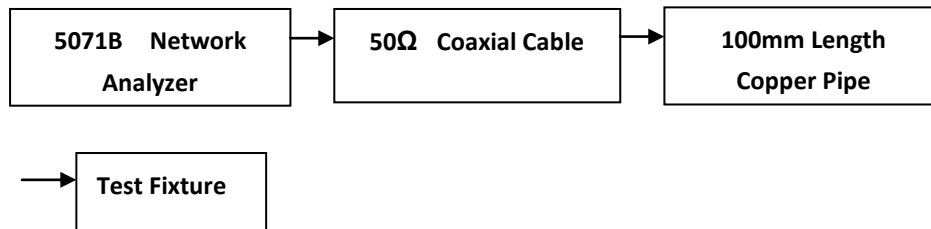
3. Test Environment



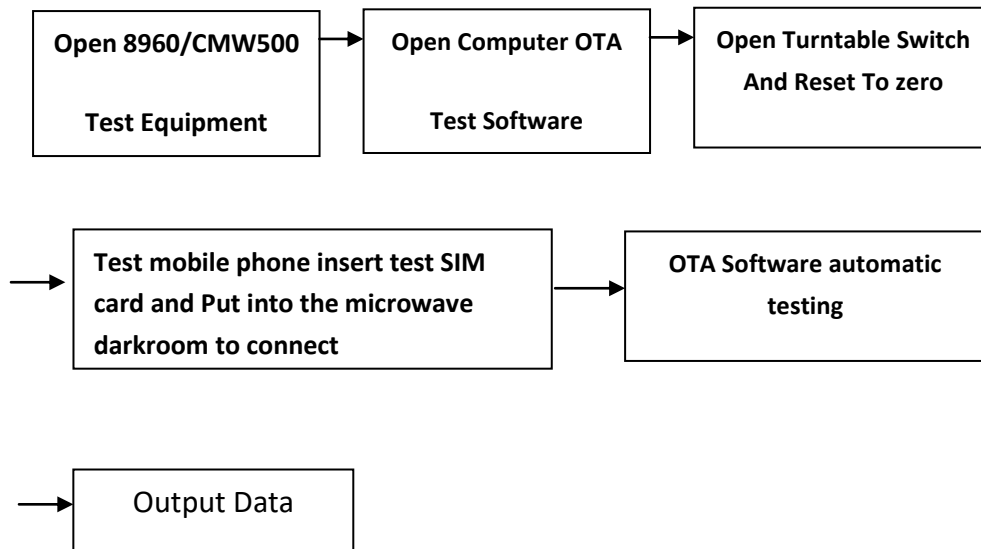
Microwave Anechoic Chamber

4. Test Steps

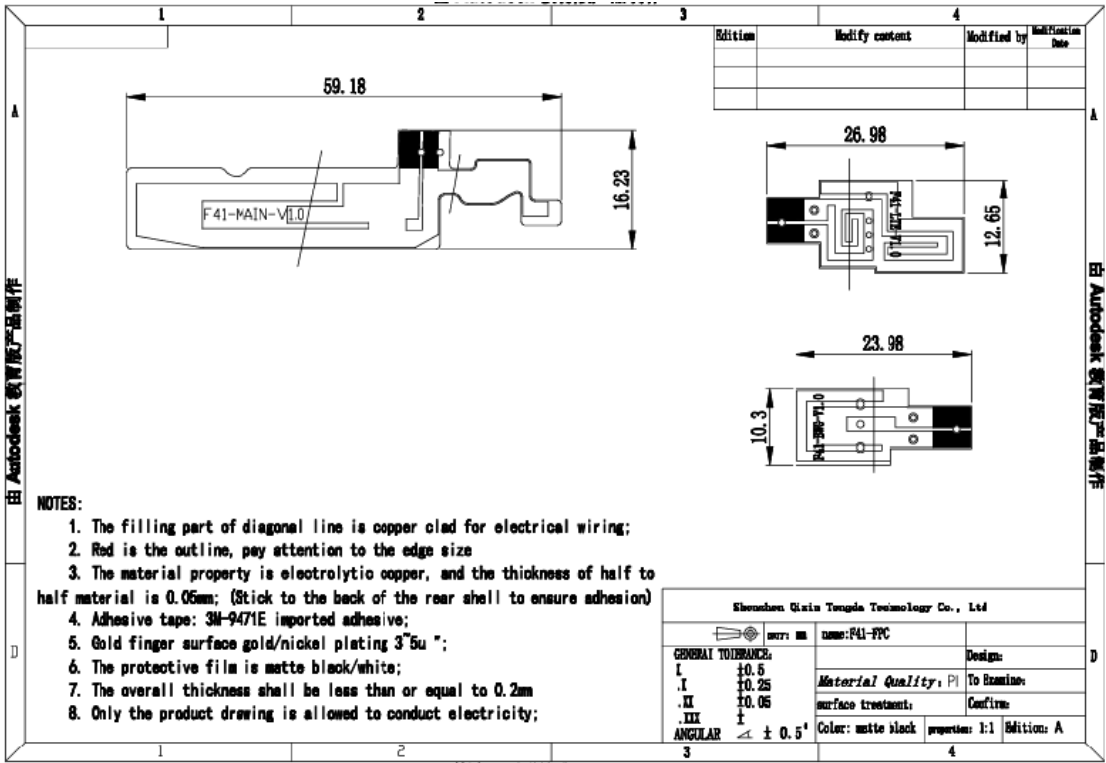
Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Dimensions

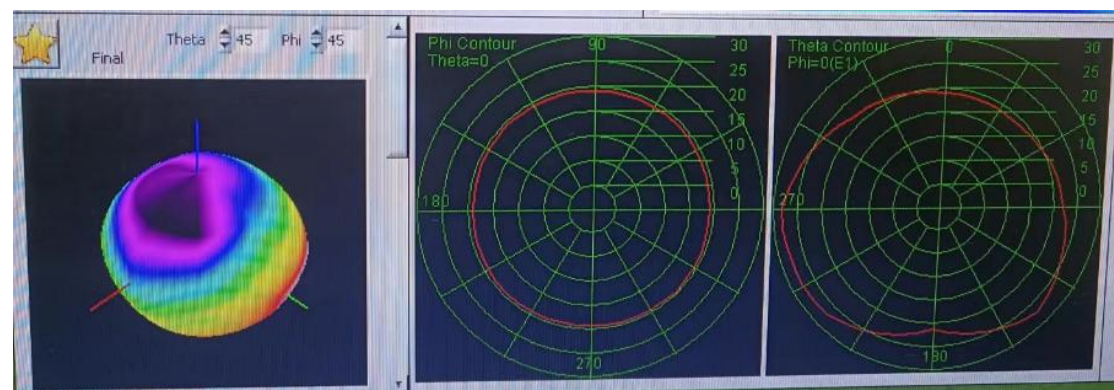


6. Antenna Gain

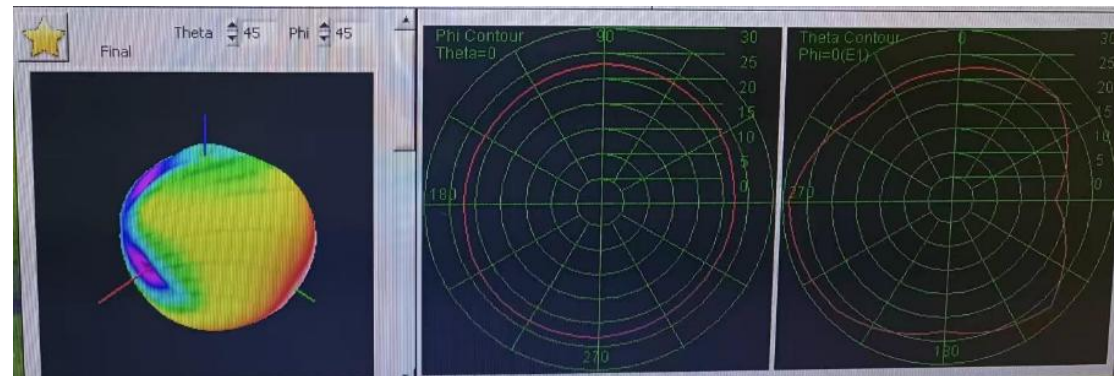
Band	Max Gain dBi	Efficiency
GSM850	-2.46	32%
GSM900	-2.11	34%
DCS1800	0.34	32%
PCS1900	1.07	30%
WCDMA2100	1.03	29%
WCDMA1900	1.07	30%
WCDMA1700	0.34	32%
WCDMA850	-2.46	32%
WCDMA900	-2.11	34%
BC0	-2.46	32%
BC1	1.07	30%
BAND 1	1.03	29%
BAND 2	1.07	30%
BAND 3	0.34	32%
BAND 4	0.34	32%
BAND 5	-2.46	32%
BAND 7	-0.54	30%
BAND 8	-2.11	34%
BAND 12	-2.67	30%
BAND 13	-2.55	30%
BAND 17	-2.67	30%
BAND 18	-2.46	32%
BAND 19	-2.46	32%
BAND 20	-2.46	32%
BAND 25	0.34	32%
BAND 26	-2.46	32%
BAND 28	-2.67	30%
BAND 34	0.34	32%
BAND38	-0.54	30%
BAND 39	1.07	30%
BAND 40	-0.8	30%
BAND 41	-0.54	30%
BAND 66	0.34	32%
Bluetooth	0.18	35%
WIFI-2.4G	0.18	35%
WIFI-5G	-0.27	32%
GPS	1.43	34%

7.3D Lobe Diagram

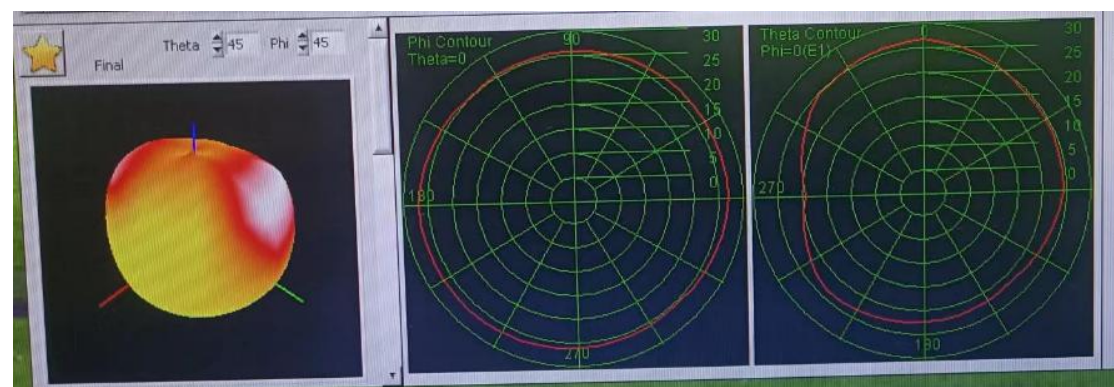
GSM850



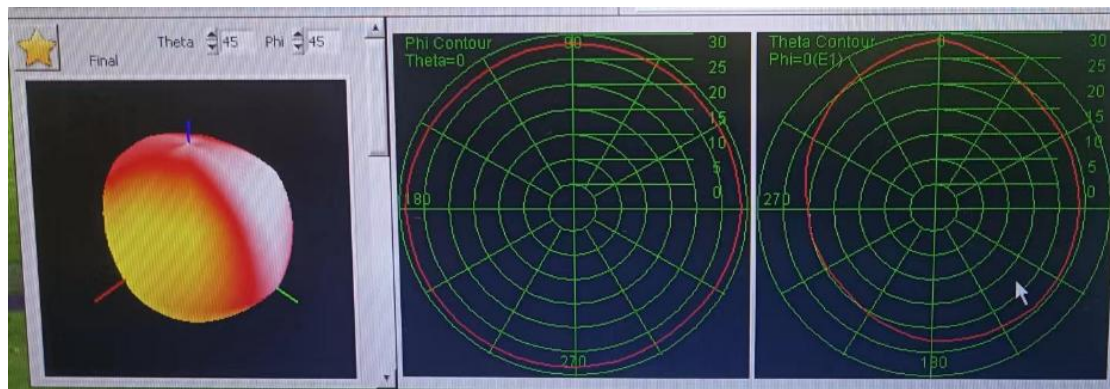
GSM900



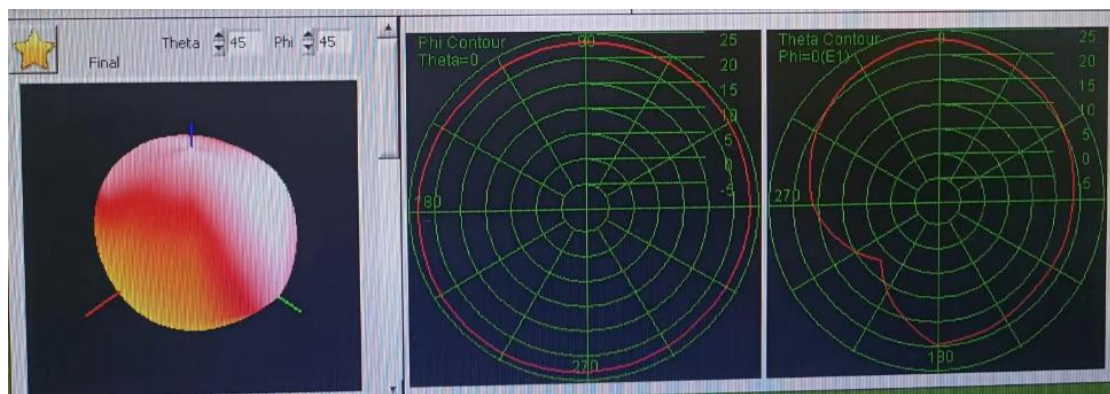
DSC1800



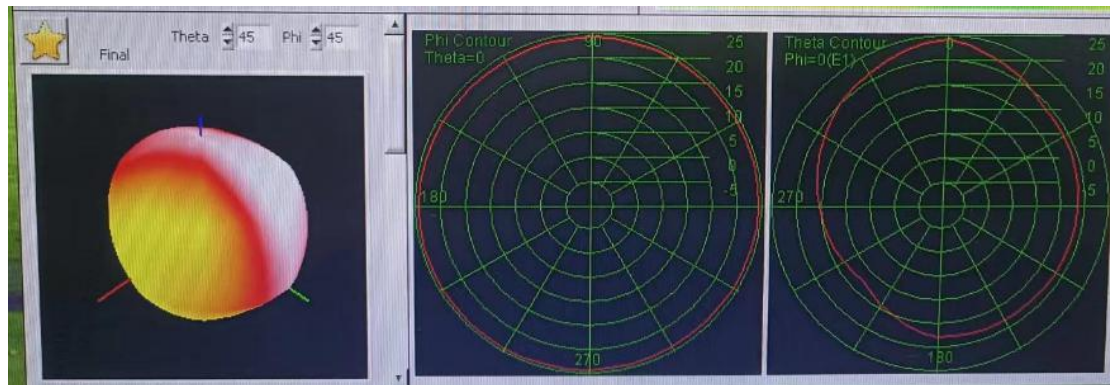
PCS1900



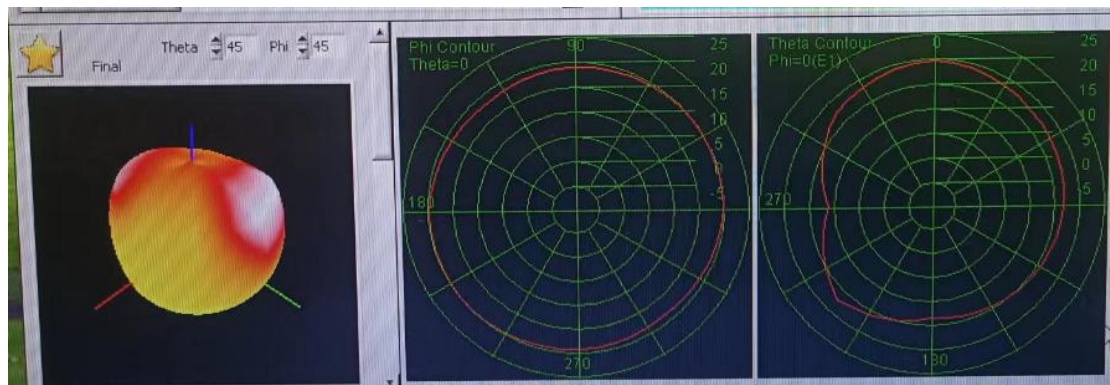
W2100



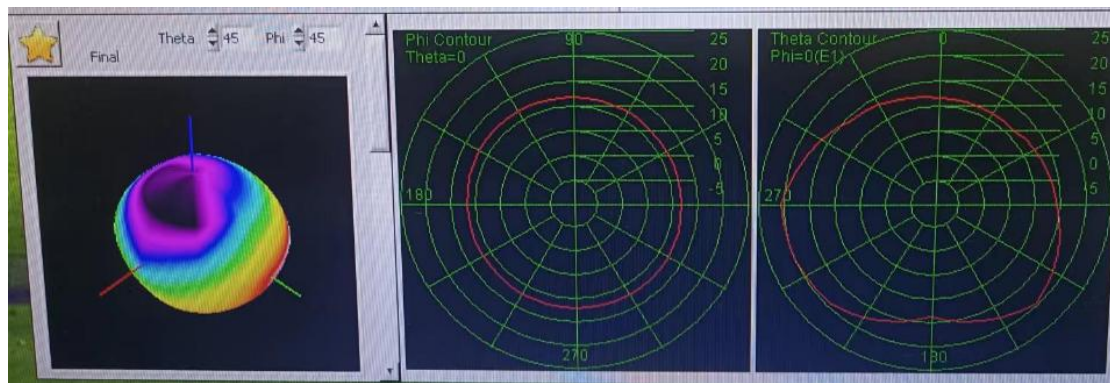
W1900



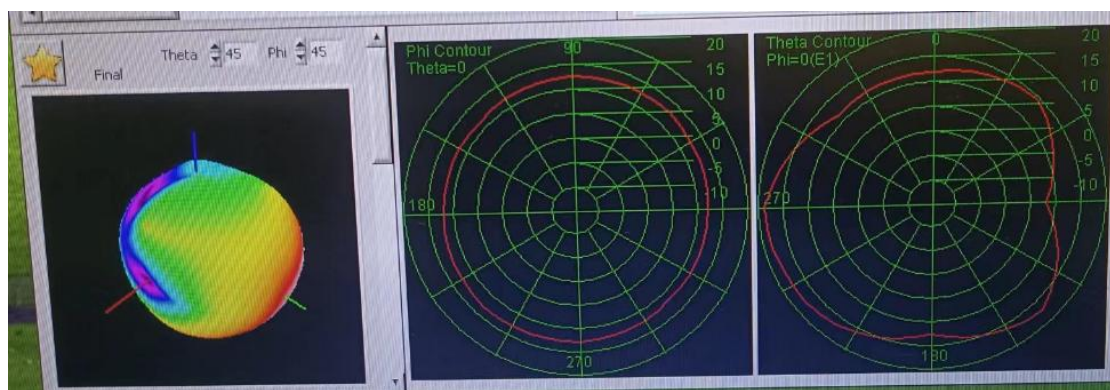
W1700



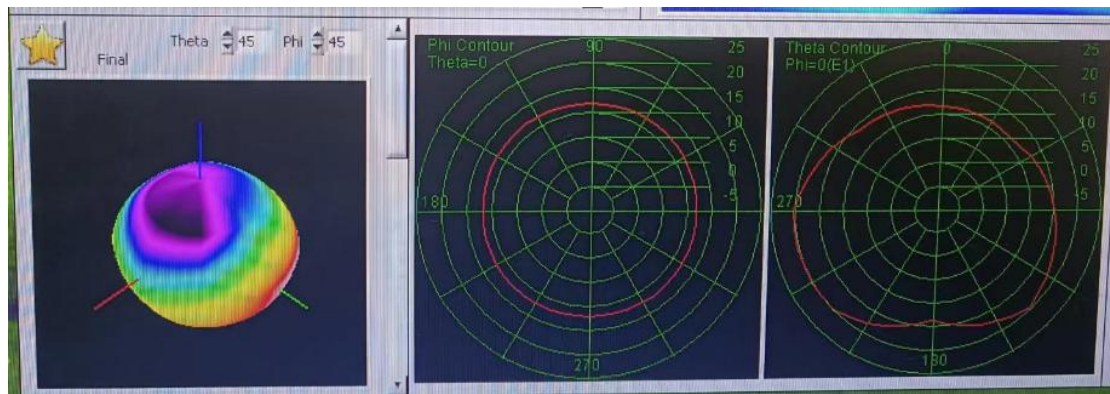
W850



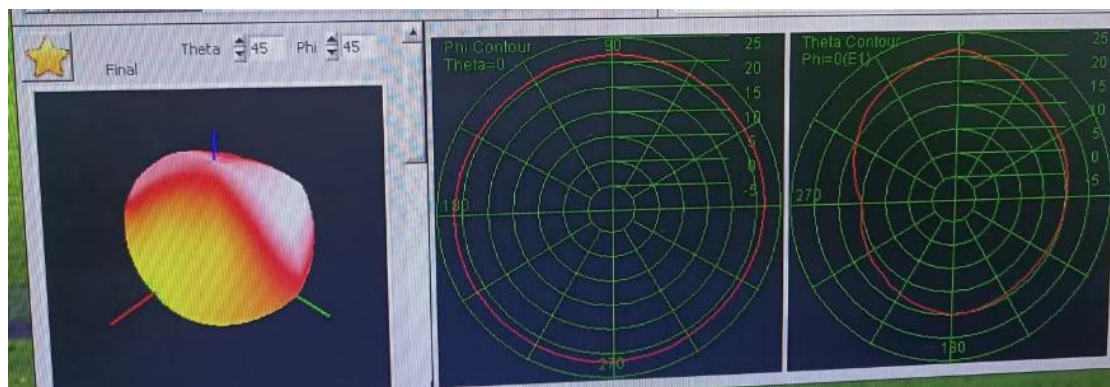
W900



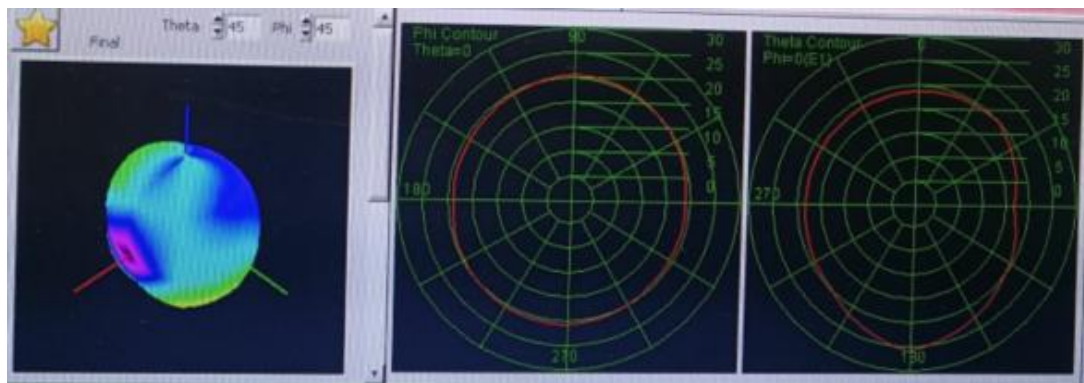
BC0



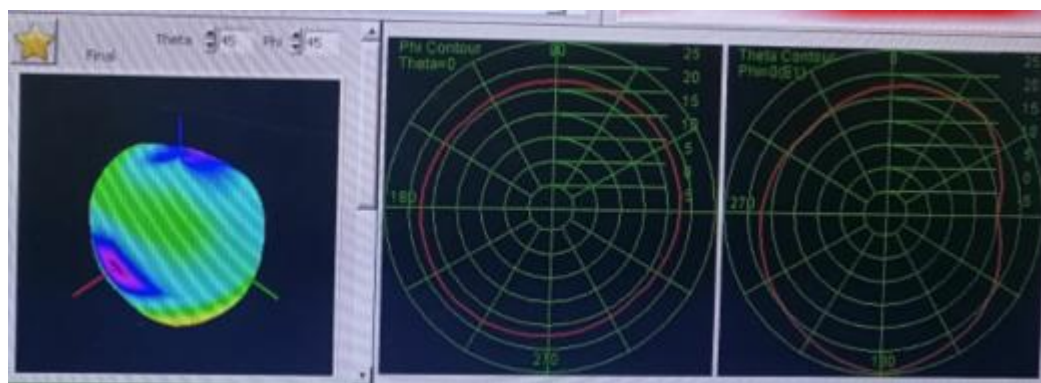
BC1



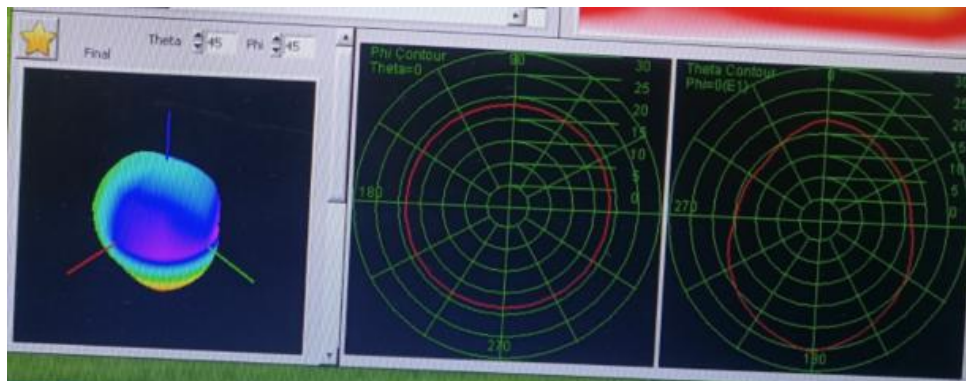
FDD-B1



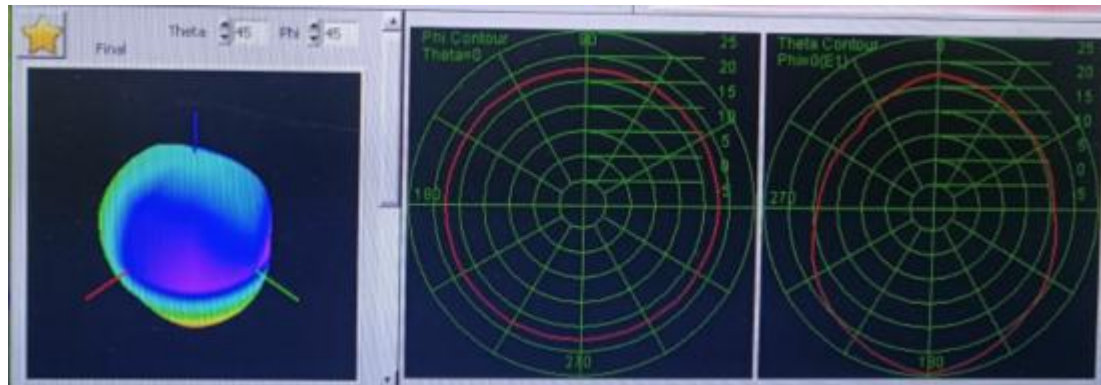
FDD-B2



FDD-B3



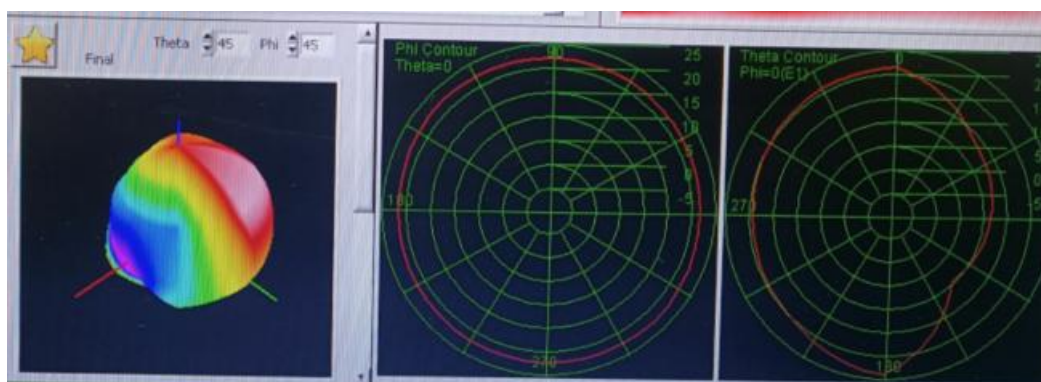
FDD-B4



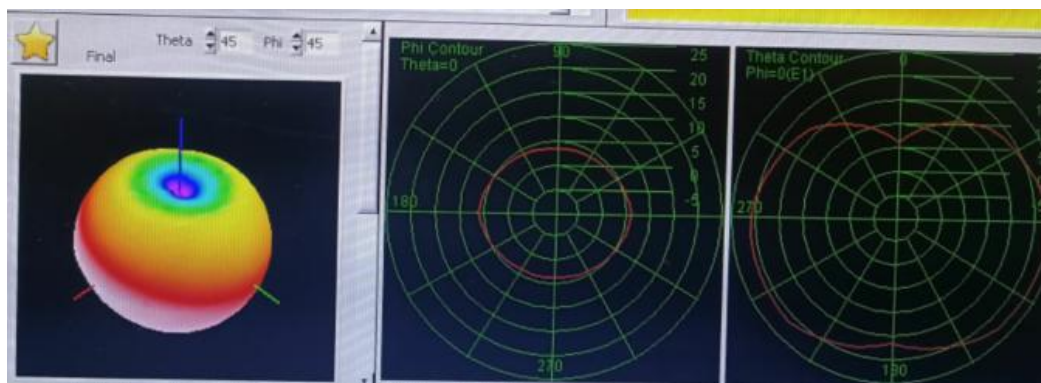
FDD-B5



FDD-B7



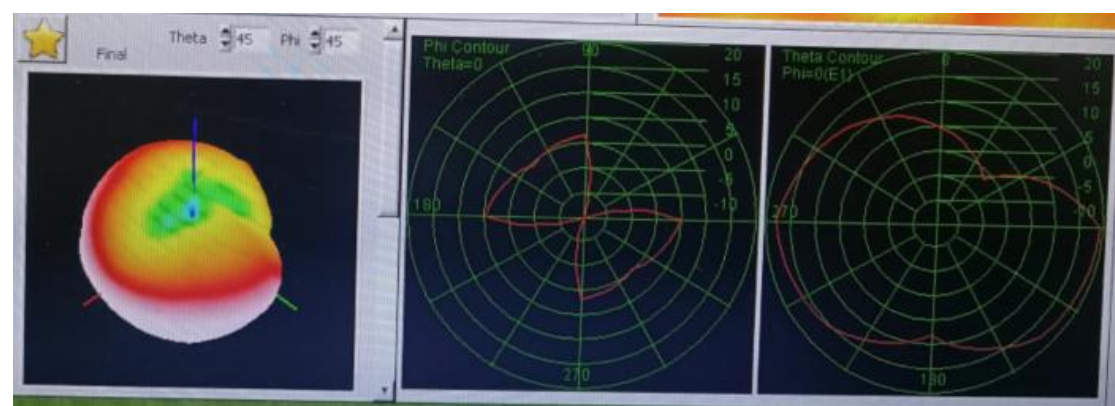
FDD-B8



FDD-B12



FDD-B13



FDD-B17



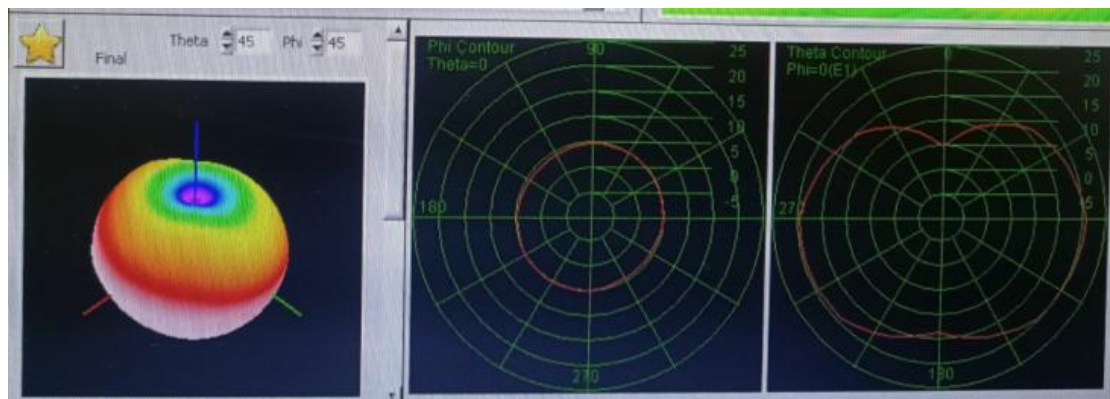
FDD-B18



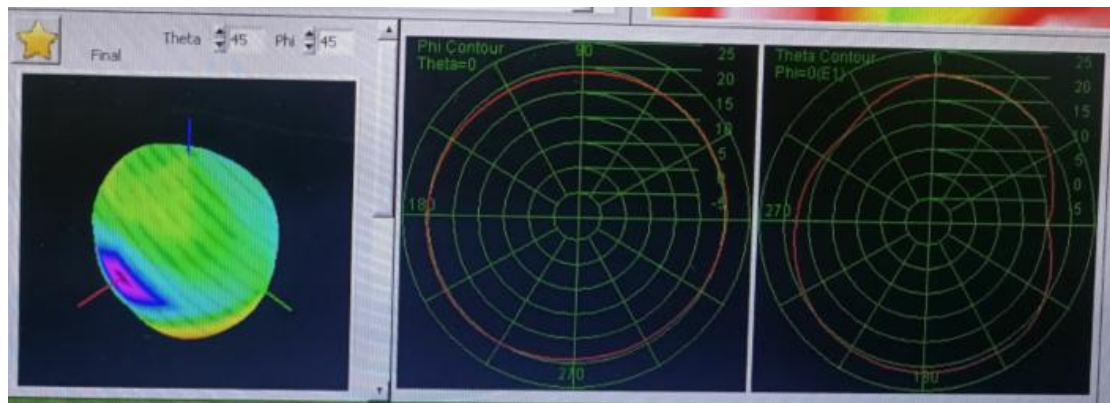
FDD-B19



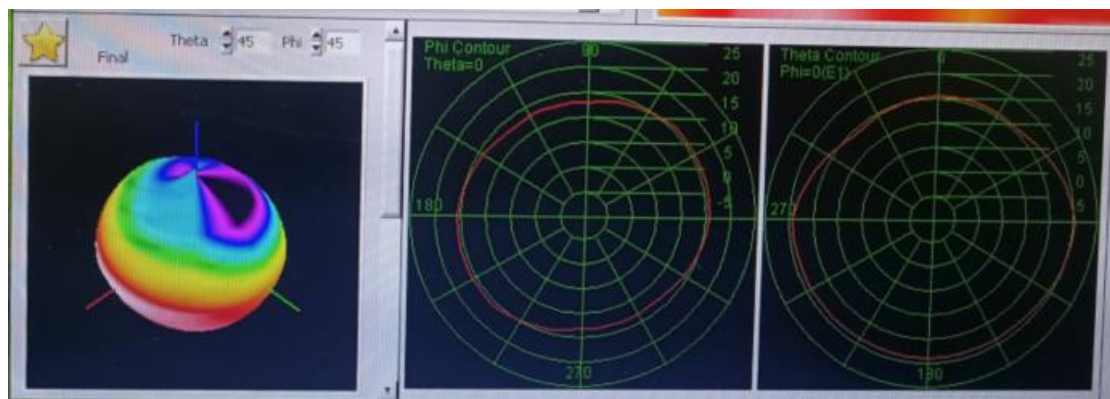
FDD-B20



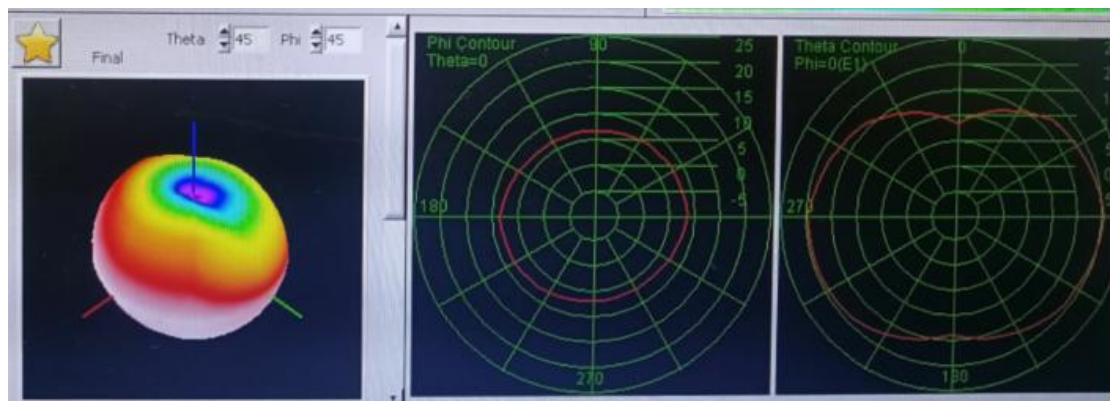
FDD-B25



FDD-B26



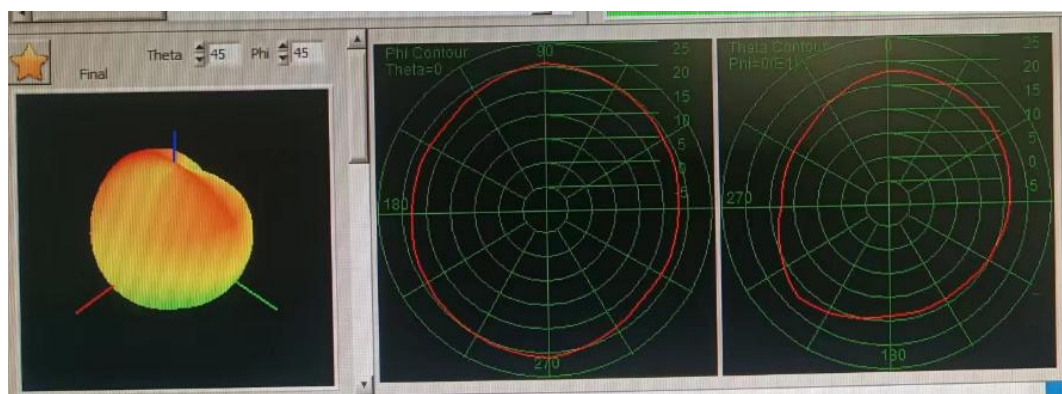
FDD-B28A



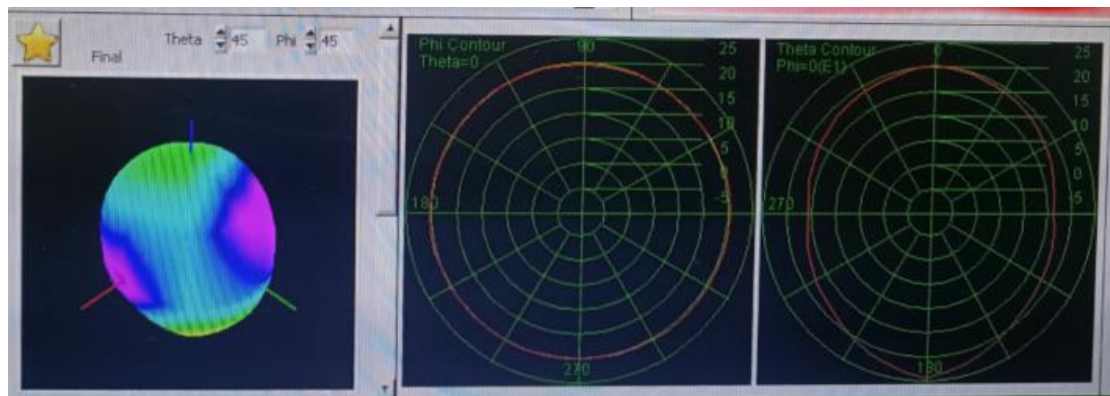
FDD-B28B



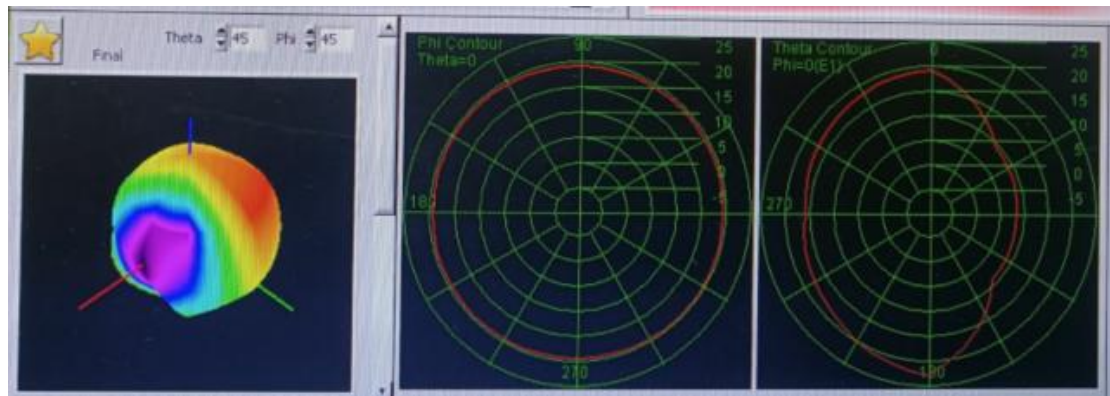
FDD-B66



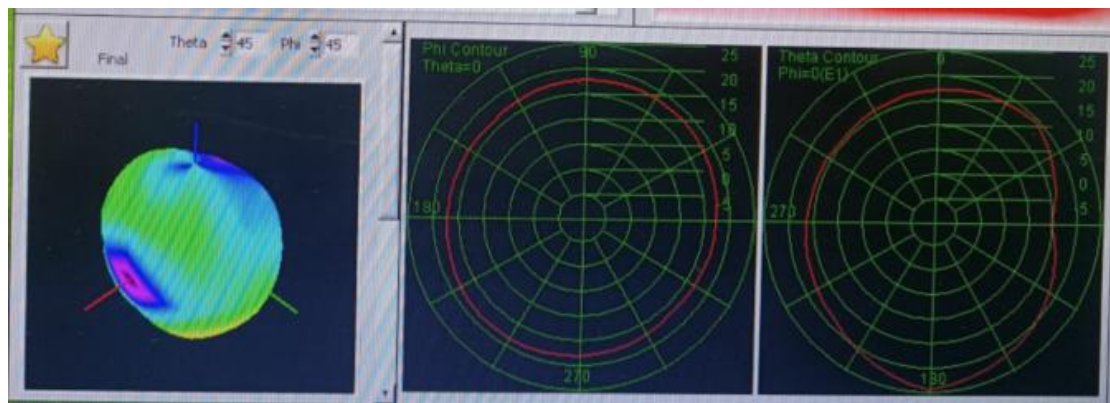
TDD-B34



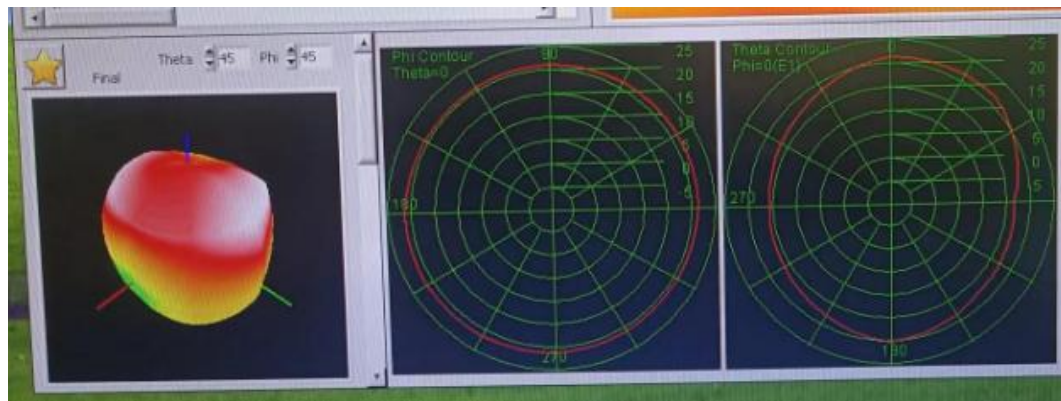
TDD-B38



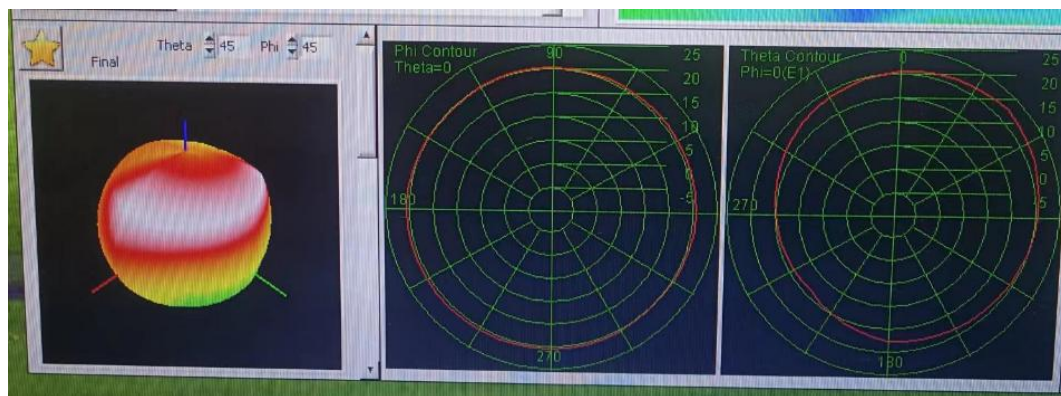
TDD-B39



TDD-B40



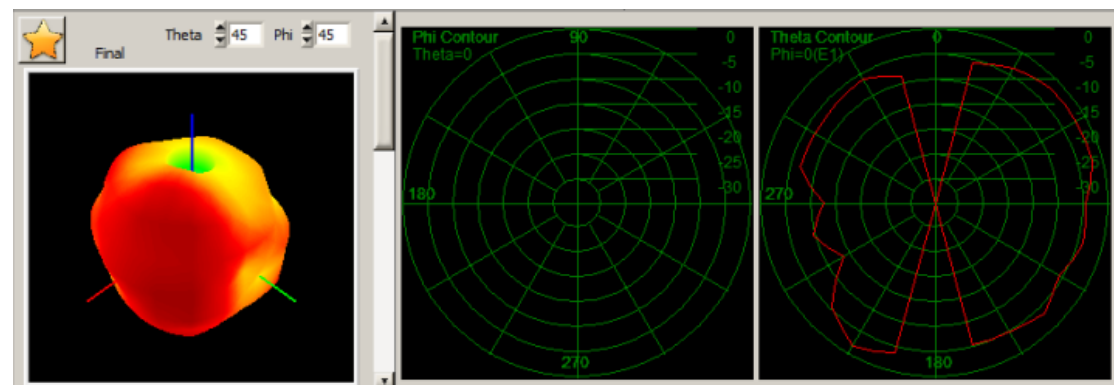
TDD-B41



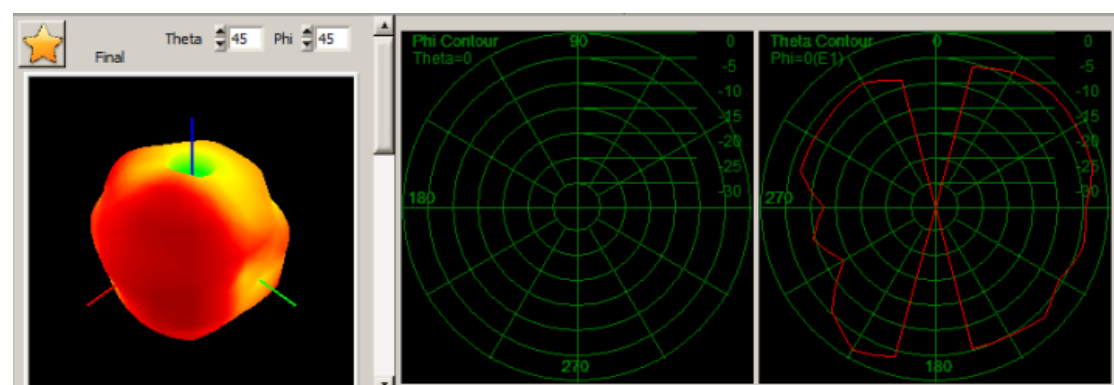
GPS



BT



2.4G-WIFI



5G-WIFI

