

Antenna Test Report

Company name:AFT tech Electronic Co., Ltd. (Shenzhen)

Product Name : X70B1

Antenna Type: Main antenna:LOOP Other antenna:PIFA

Test Date:2024/07/08

Tested by:

Approved by:

1.General Description

Manufacturer	AFT tech Electronic Co., Ltd. (Shenzhen)
Address	Room 302, Building B, Shengang Innovation Park, No.40 Huaning Road, Dalang Street, Longhua New District, Shenzhen
Test Location	
Product Name	
Antenna Type	Main antenna:LOOP Other antenna:PIFA
test Items	GAIN;Efficiency;Radiation Pattern
Test Frequency	706-2690MHz

2. Test Configuration

Test Environment

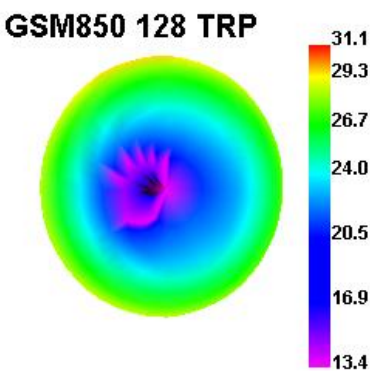
Temperature (°C)	25.5
Humidity (%RH)	60
Atmospheric Pressure(kpa)	101.5

Test Equipment

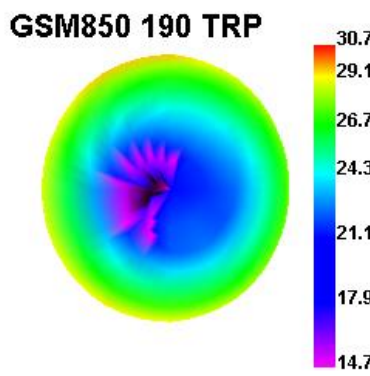
Test Instrument	R&S ZNB8
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4. 1 3D-Antenna pattern (GSM850/900)

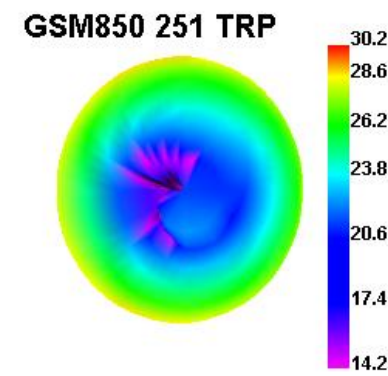
GSM850 128 TRP



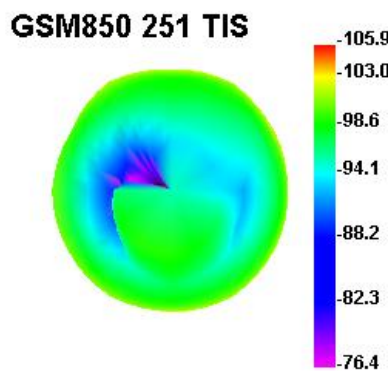
GSM850 190 TRP



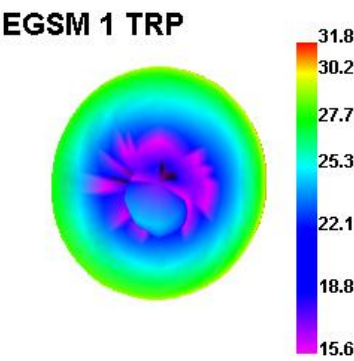
GSM850 251 TRP



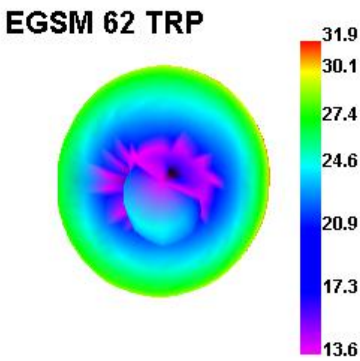
GSM850 251 TIS



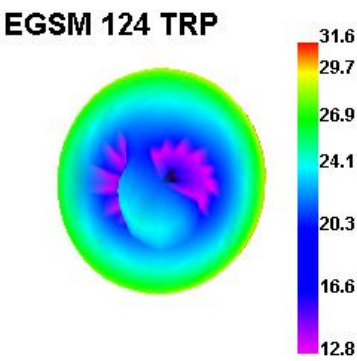
EGSM 1 TRP



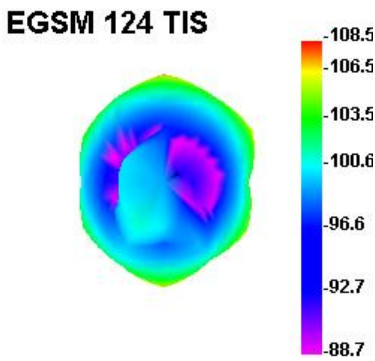
EGSM 62 TRP



EGSM 124 TRP



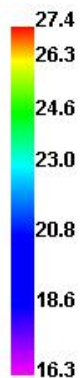
EGSM 124 TIS



4. 2 3D-Antenna pattern (DCS1800/PCS1900)

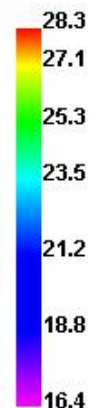
DCS 512 TRP

DCS 512 TRP



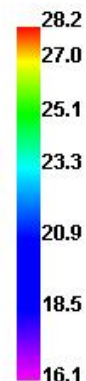
DCS 698 TRP

DCS 698 TRP



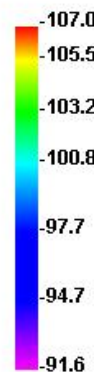
DCS 885 TRP

DCS 885 TRP



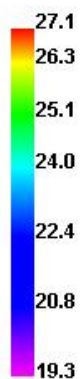
DCS 885 TIS

DCS 885 TIS



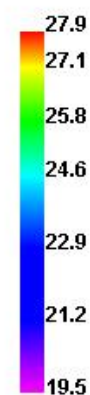
PCS 512 TRP

PCS 512 TRP



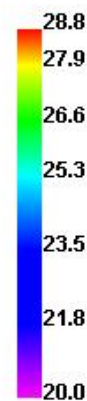
PCS 661 TRP

PCS 661 TRP



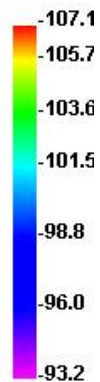
PCS 810 TRP

PCS 810 TRP



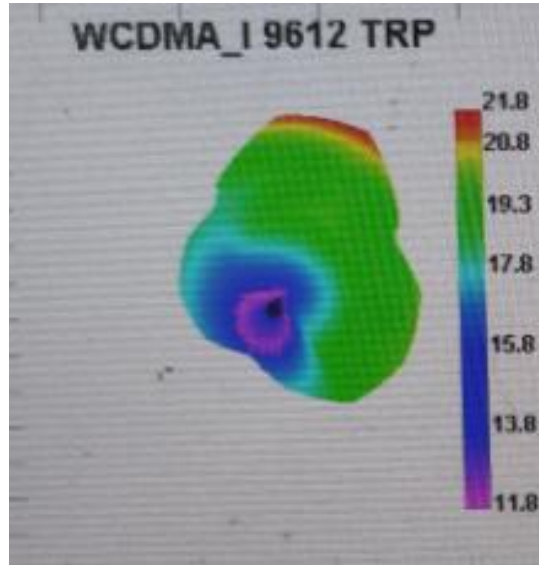
PCS 810 TIS

PCS 810 TIS

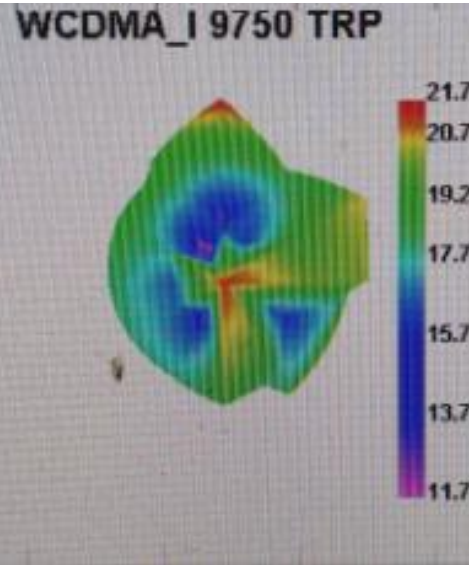


4. 3 3D-Antenna pattern (WCDMA B1/8)

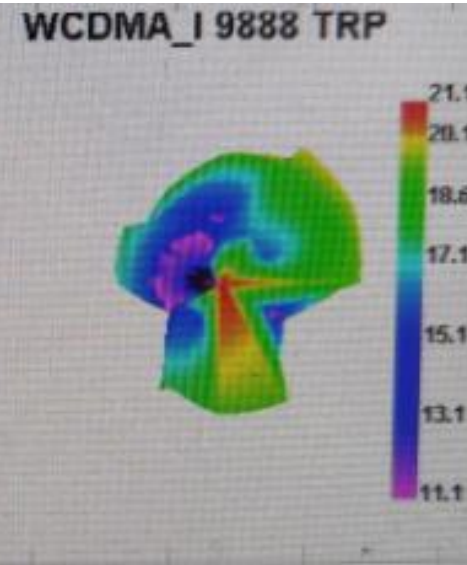
WCDMA B1 9612 TRP



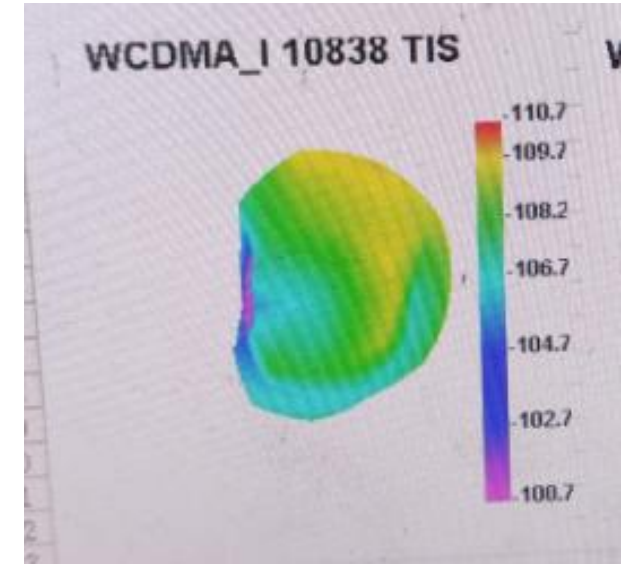
WCDMA B1 9750 TRP



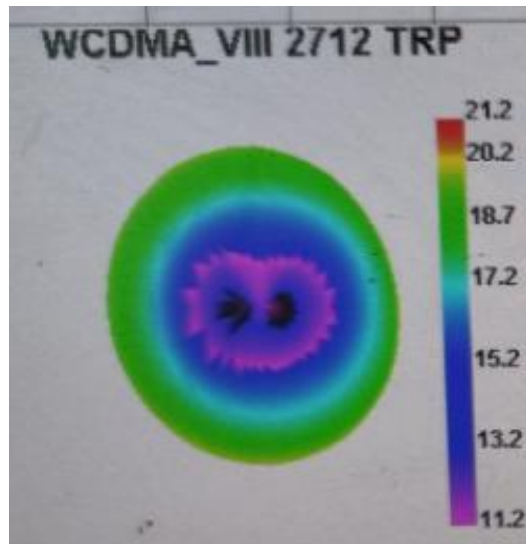
WCDMA B1 9888 TRP



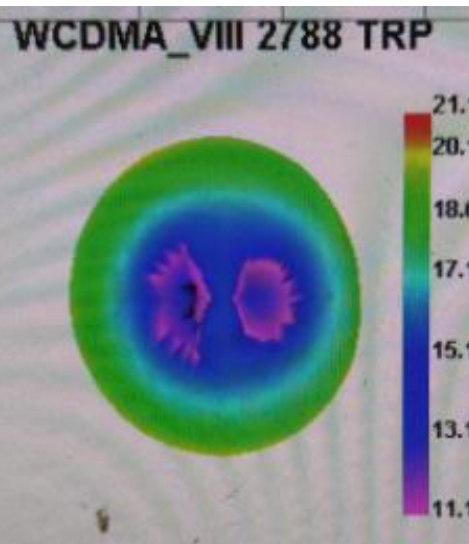
WCDMA B1 10838 TIS



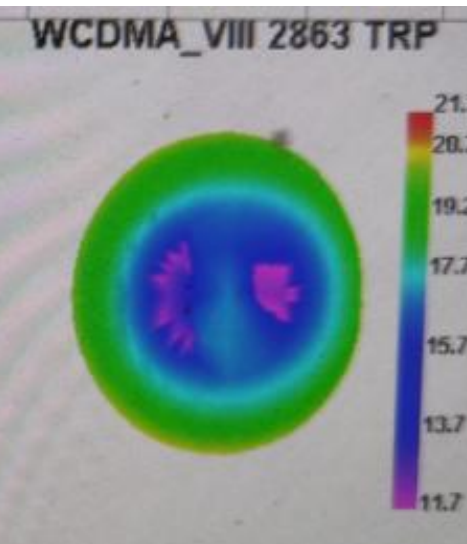
WCDMA B8 2712 TRP



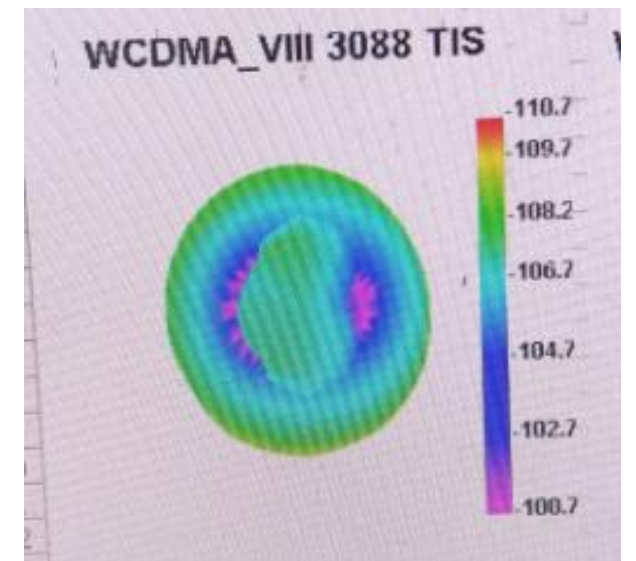
WCDMA B8 2787 TRP



WCDMA B8 2863 TRP

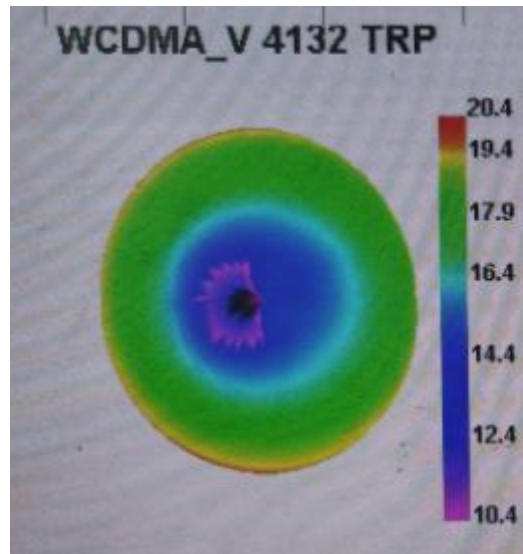


WCDMA B8 3088 TIS

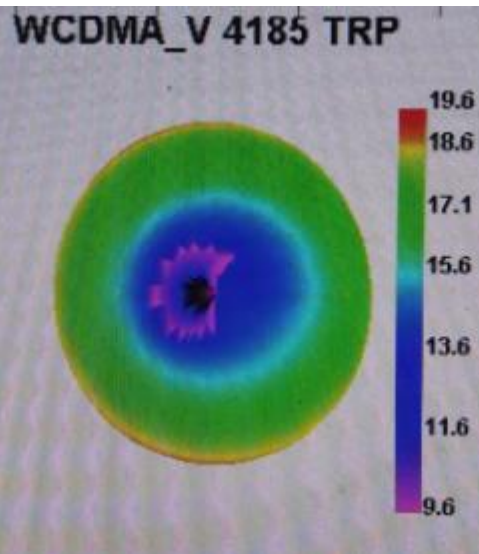


4. 4 3D-Antenna pattern (WCDMA B5)

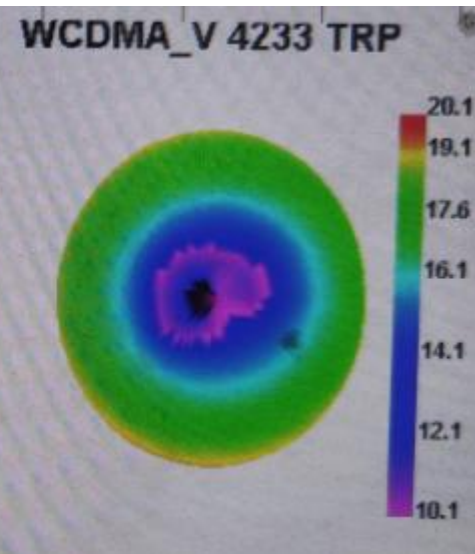
WCDMA B5 4132 TRP



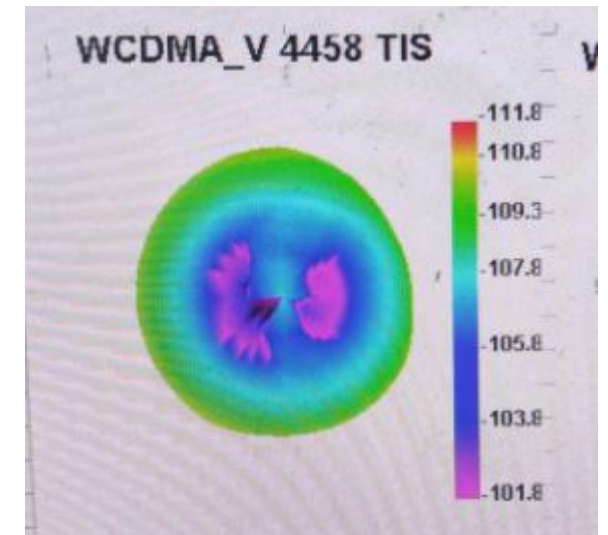
WCDMA B5 4183 TRP



WCDMA B5 42333 TRP

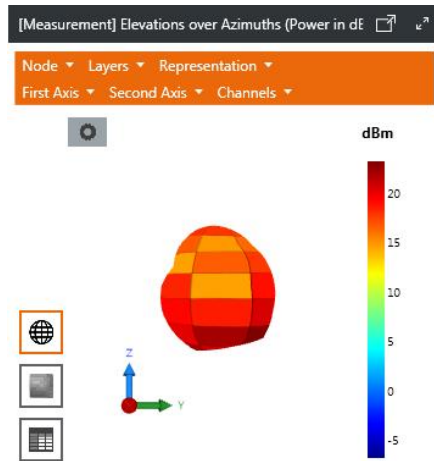


WCDMA B5 4458 TIS

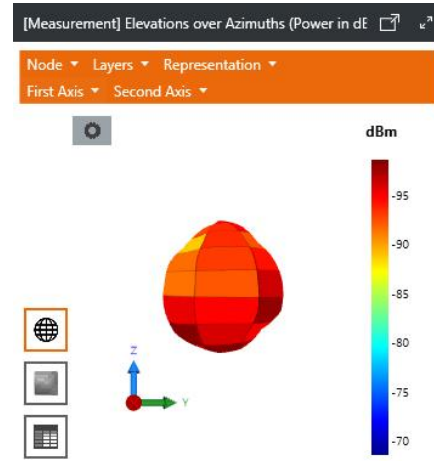


4. 5 3D-Antenna pattern (FDD B1/3/5/7)

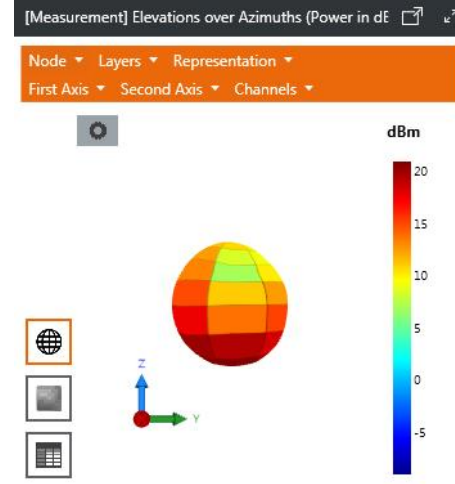
LTE B1 TRP



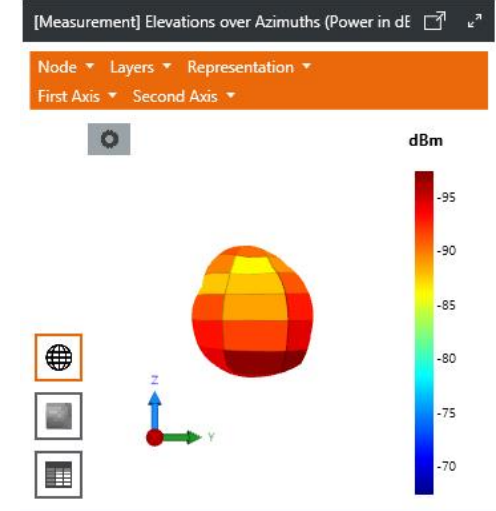
LTE B1 TIS



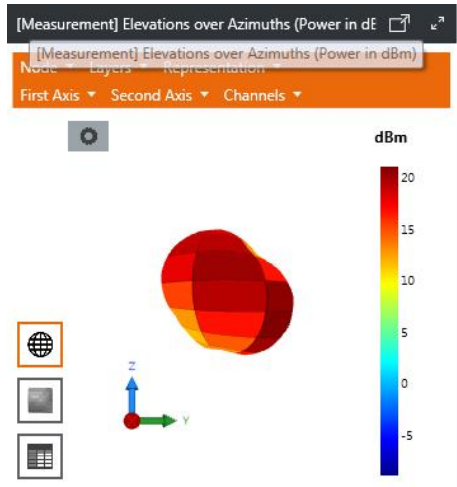
LTE B3 TRP



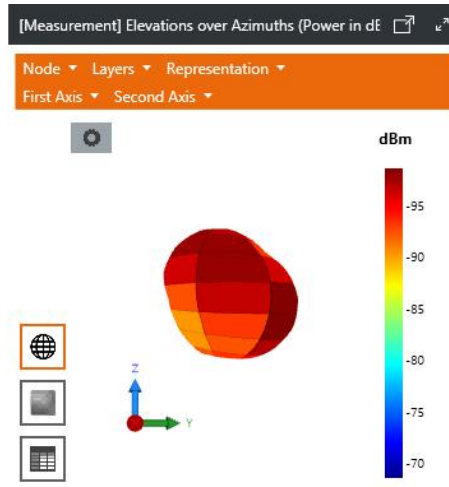
LTE B3 TIS



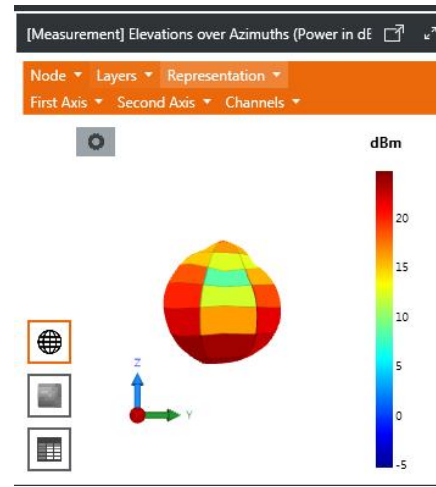
LTE B5 TRP



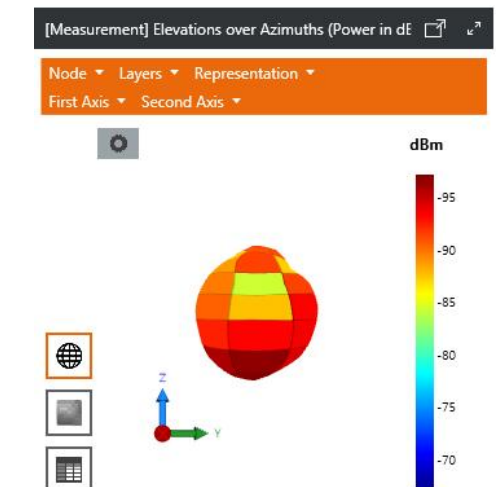
LTE B5 TIS



LTE B7 TRP

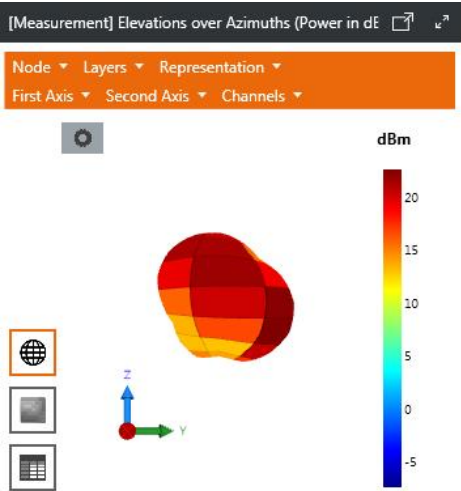


LTE B7 TIS

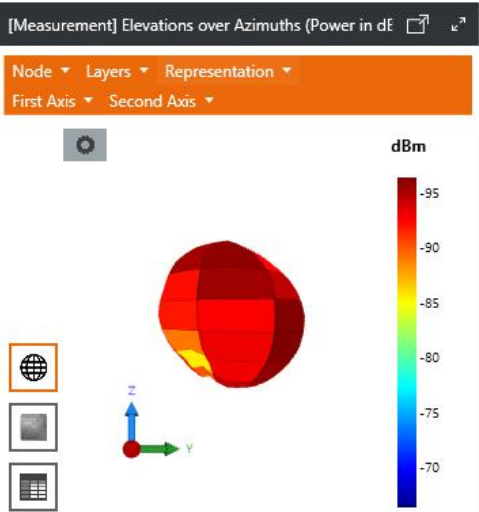


4. 6 3D-Antenna pattern (FDD B8/20/28A/28B)

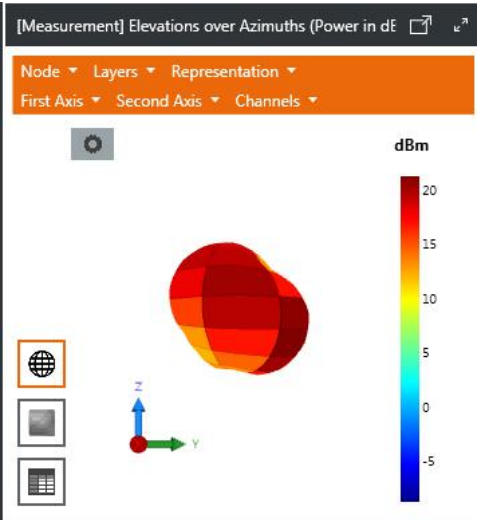
LTE B8TRP



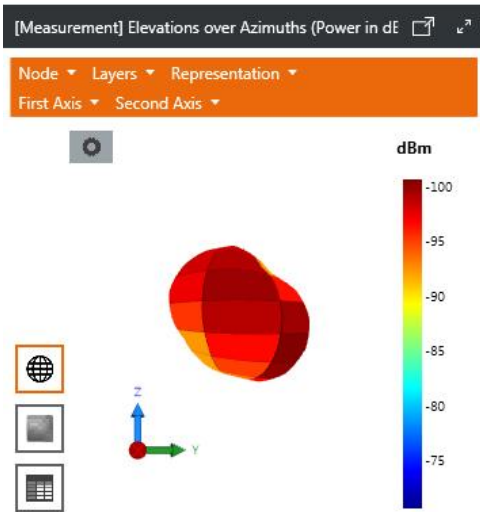
LTE B8 TIS



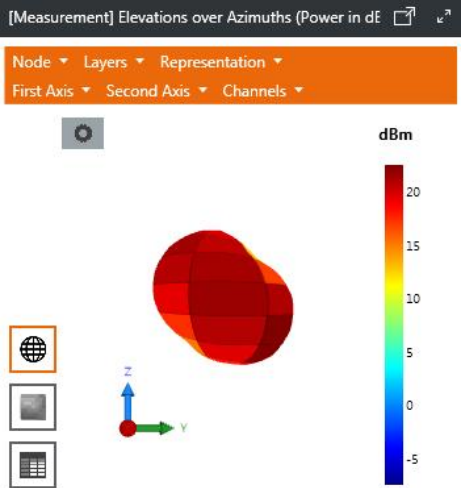
LTE B20 TRP



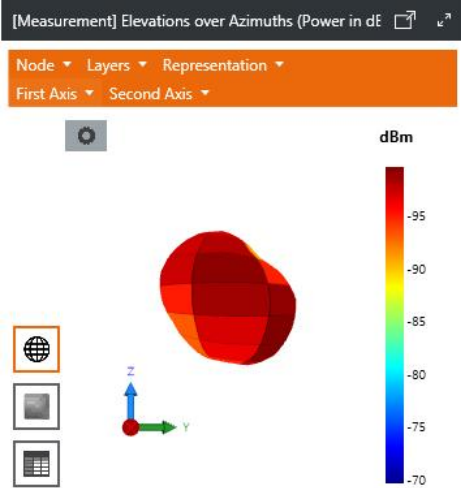
LTE B20 TIS



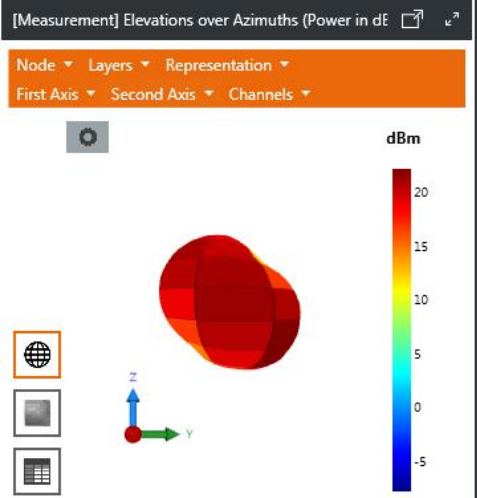
LTE B28A TRP



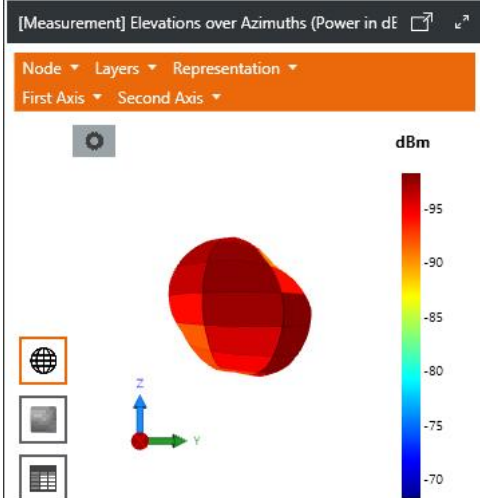
LTE B28A TIS



LTE B28B TRP

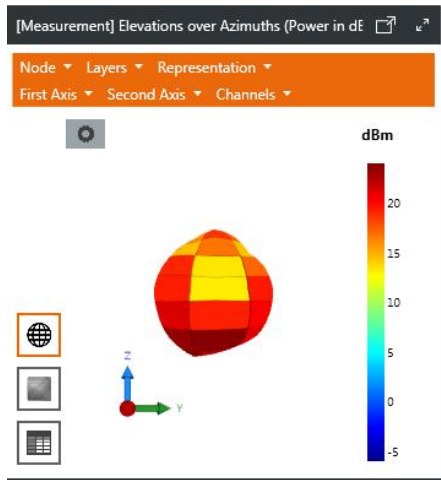


LTE B28B TIS

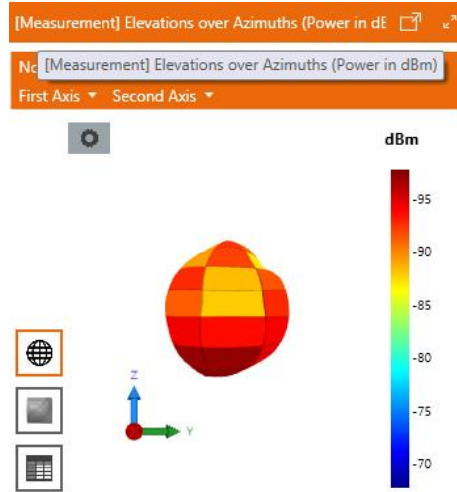


4. 7 3D-Antenna pattern (TDD B38/40/41)

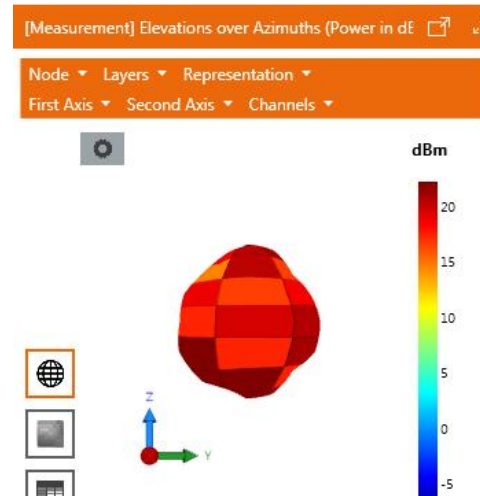
LTE B38 TRP



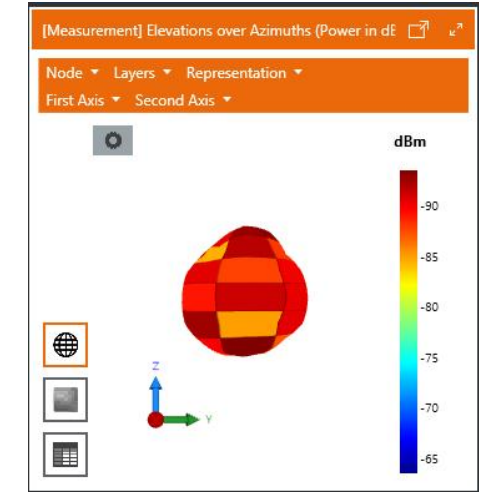
LTE B38 TIS



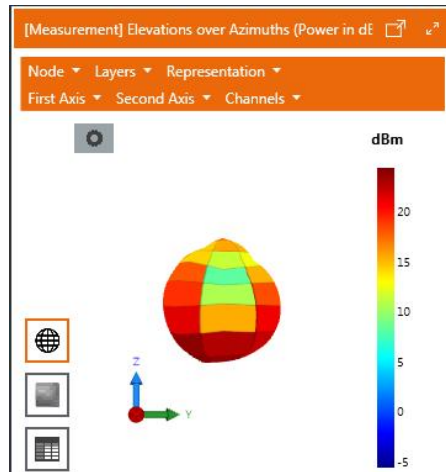
LTE B40 TRP



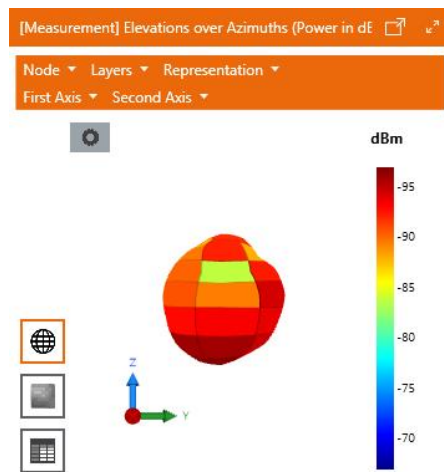
LTE B40 TIS



LTE B41 TRP



LTE B41 TIS

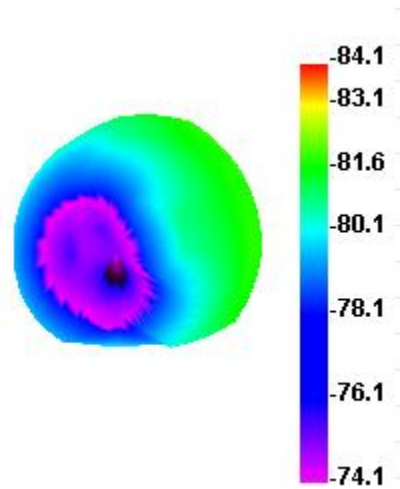
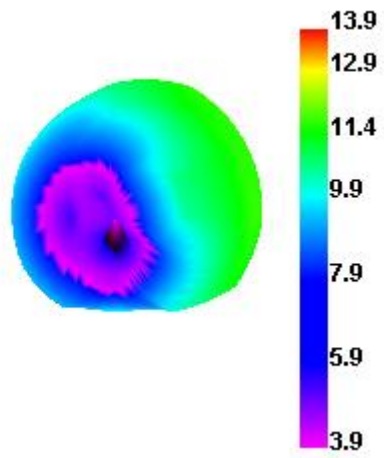


7. 1 Main antenna gain

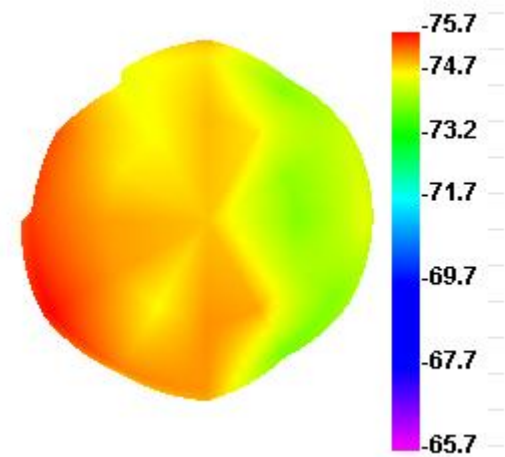
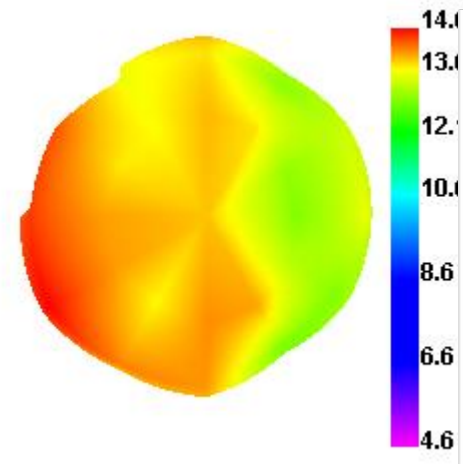
Band	Max Gain
GSM850	-2.6
GSM900	-2.2
DCS1800	-1.1
PCS1900	-1.2
WCDMA2100	-0.9
WCDMA900	-2.2
WCDMA850	-2.6
BAND 1	-0.9
BAND 3	-1.1
BAND 5	-2.6
BAND 7	-0.8
BAND 8	-2.2
BAND 20	-0.9
BAND 28	0.3
BAND 38	0.6
BAND 40	0.5
BAND 41	0.7
WIFI-2.4G	2.2
WIFI-5.8G	1.8
BT	2.2
GPS	-1.2

2.4G-WIFI+BT

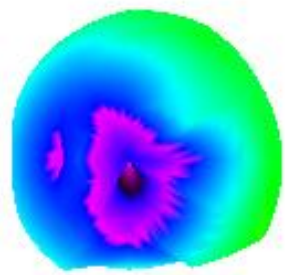
Received Power



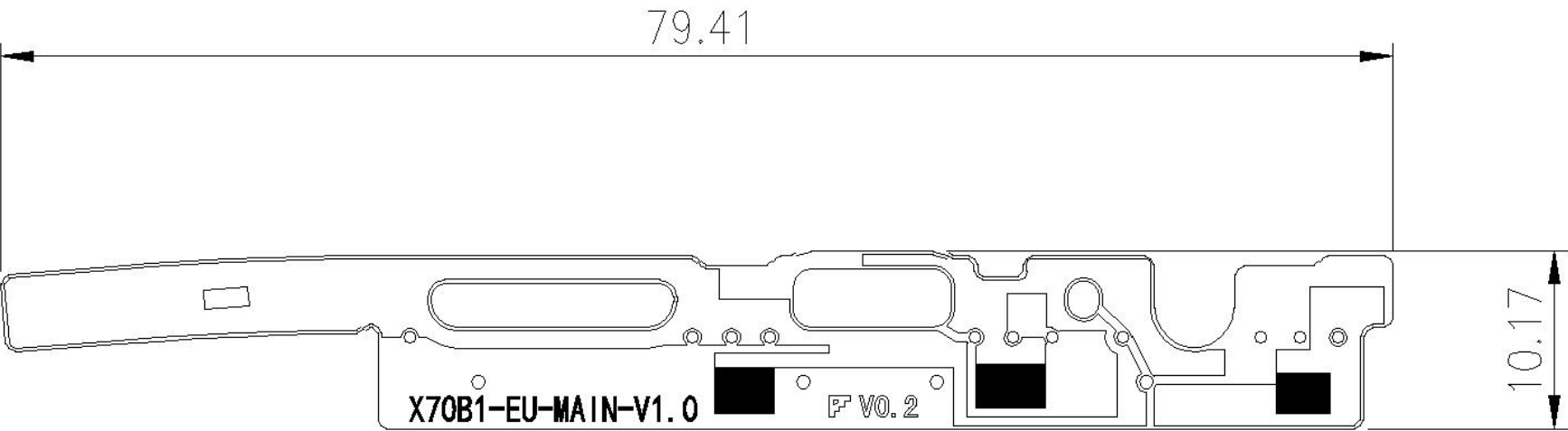
5G-WIFI



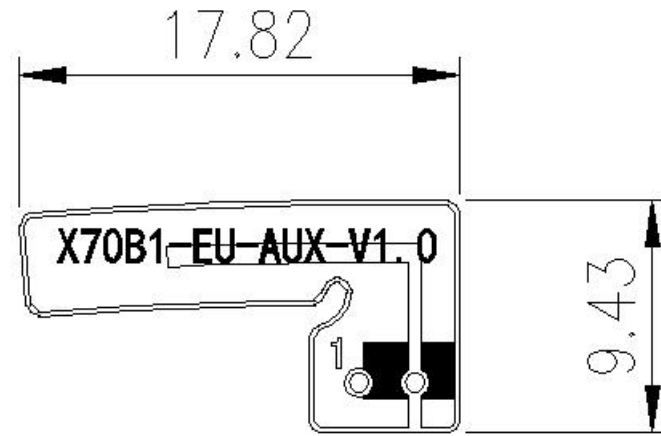
GPS



8.1Main antenna size diagram



8.2DIV antenna size diagram



8.3 GPS/WIFI/BT antenna size diagram

