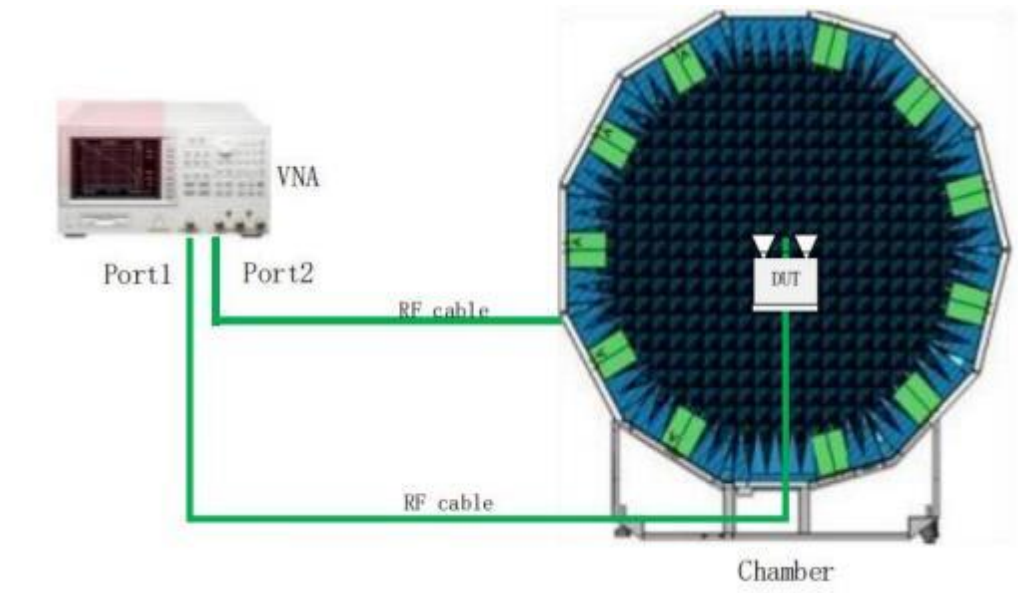


Type and shape of antenna	IFA/SLOOP Antenna
Directional characteristics	Omni-directional
Deflection Characteristics of Antenna	Linear
Type of connection with transmitter	antenna shrapnel
Manufacturer	Welletronics Communication Technology Co., LTD ShangHai Innwave Communication Technology Co., LTD
Measuring Organization	Welletronics Communication Technology Co., LTD ShangHai Innwave Communication Technology Co., LTD

1.EUT Reference Setup



Tester	Gaobin/Zhangjie
Actual date of testing	2024-11-14
Test description	Use an anechoic chamber to measure the radiation pattern and antenna gain. The GTS laboratory operates at 0.6-5.9GHz. The chamber's reflection level in the range of 0.6GHz to 5.9 GHz is typically ≤ 25 dB. Standard dipoles are used to calibrate for path loss and magnetic ring lines are used to suppress feeder emissions, so we can measure antenna gain.

Test Equipment List

Name of test equipment	Model	Manufacturer	Cal.Due Date	Calibtation Interval
Pattern Measurement Software	General Test	Ray Zone 1800	NA	NA
Network Analyzer	Agilent	E5071B	2024-07-20	One year

2. Antenna Gain

	Test band	Gain(ANT0)	Gain(ANT1)	Gain(ANT2)	Gain(ANT4)	Gain(ANT7)
GSM	B5(850)	-2.4	/	/	-5.9	/
	B8(900)	-2.7	/	/	-4	/
	B3(1800)	-1.5	/	/	-1.6	/
	B2(1900)	-2.6	/	/	-1.3	/
WCDMA	B1(W2100)	-2.3	/	/	-1.7	/
	B2(W1900)	-2.6	/	/	-1.3	/
	B4(W1700)	-1.5	/	/	-1.6	/
	B5(W850)	-2.4	/	/	-5.9	/
	B8(W900)	-2.7	/	/	-4	/
LTE	B1	-2.3	/	-6.9	-1.7	-1.8
	B2	-2.6	/	/	-1.3	/
	B3	-1.5	/	-8.8	-1.6	-4.5
	B4	-1.6	/	/	-1.6	/
	B5	-2.4	/	/	-5.9	/
	B7	/	-1.1	-3.3	-0.7	-4.8
	B8	-2.7	/	/	-4	/
	B12	-2.9	/	/	-5.5	/
	B17	-2.9	/	/	-5.5	/
	B13	-3.2	/	/	-5.2	/
	B26	-2.7	/	/	-5.9	/
	B28	-1.9	/	/	-5.2	/
	B38	/	-1.3	-3	-0.9	-2.7
	B40	/	-0.2	/	-0.4	/
	B41	/	-1.1	-2.8	-0.9	-1.8
	B66	-1.5	/	/	-1.6	/

	Test band	Gain(ANT0)	Gain(ANT1)	Gain(ANT2)	Gain(ANT4)	Gain(ANT7)
NR	N1	-2.3	/	-6.9	-1.7	-1.8
	N3	-1.5	/	-8.8	-1.6	-4.5
	N5	-2.4	/	/	-5.9	/
	N7	/	-1.1	-3.3	-0.7	-4.8
	N28	-1.9	/	/	-5.2	/
	N40	/	-0.2	/	-0.4	/
	N41	/	-1.1	-2.8	-0.9	-1.8
	N66	-1.5	/	/	-1.6	/

	Test band	Gain(ANT2)	Gain(ANT3)	Gain(ANT5)	Gain(ANT7)
NR	N78	-2	-0.2	-1.5	-1.8

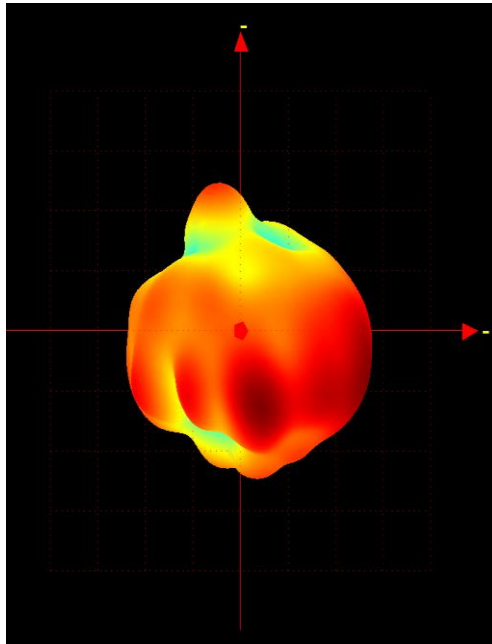
	Test band	Gain(ANT6)
WIFI	2.4G	-4.8
BT	BT	-4.8
WIFI	5G	-4.6
GPS	GPS	-0.4

3. 3D map

MAIN

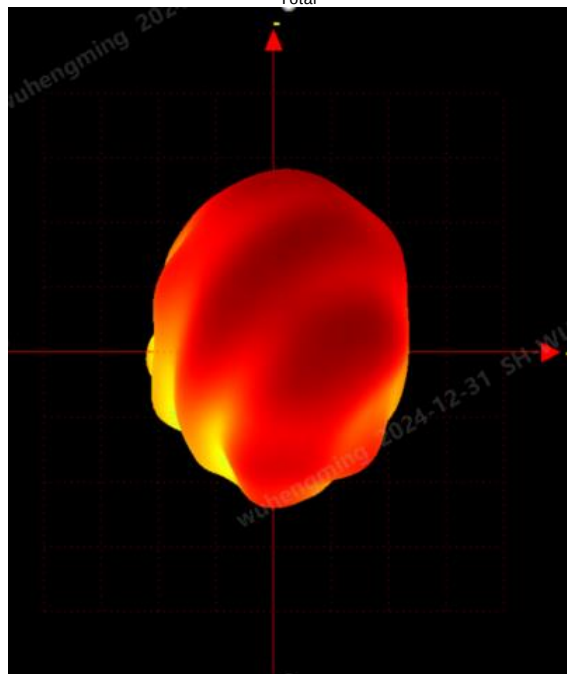
900MHz

Total



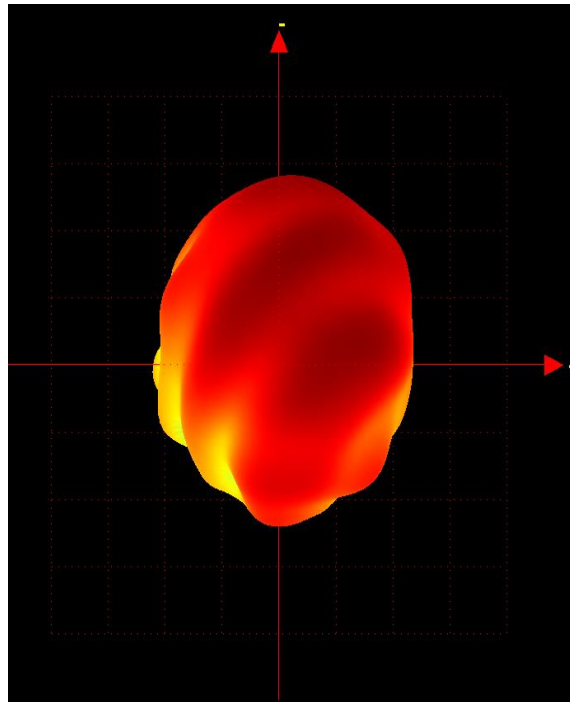
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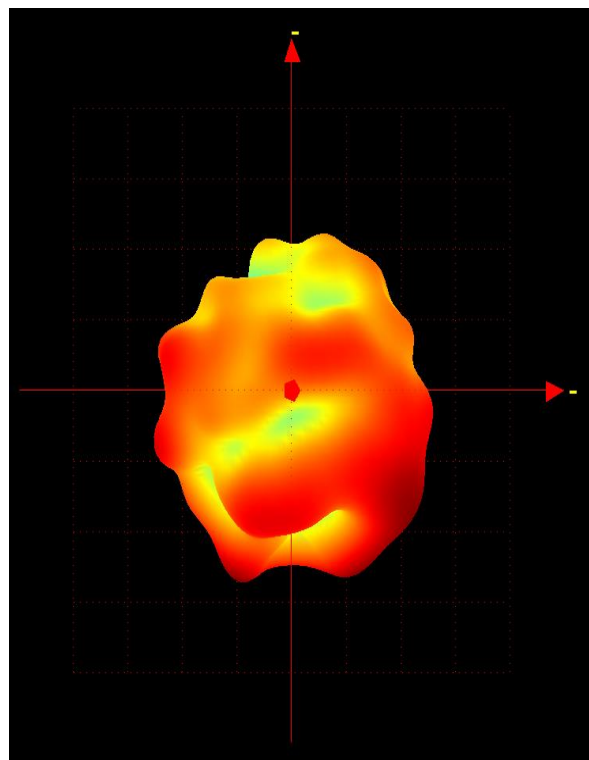
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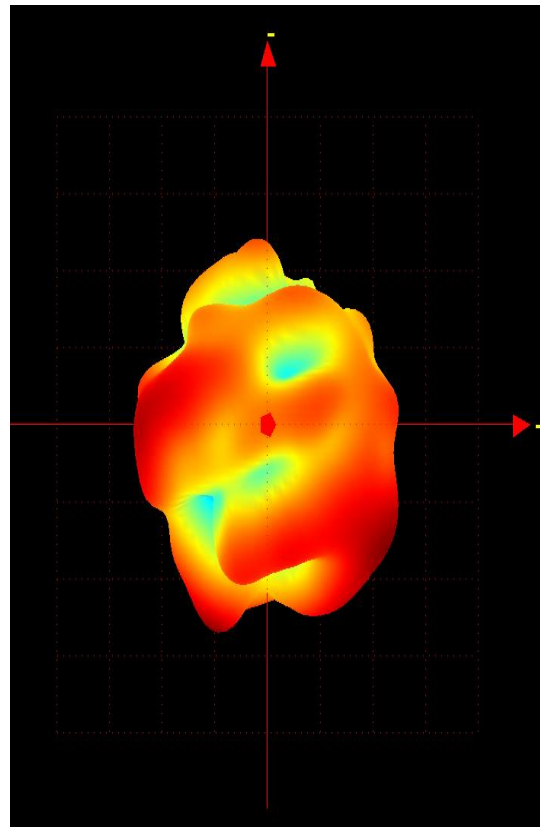
2350MHz

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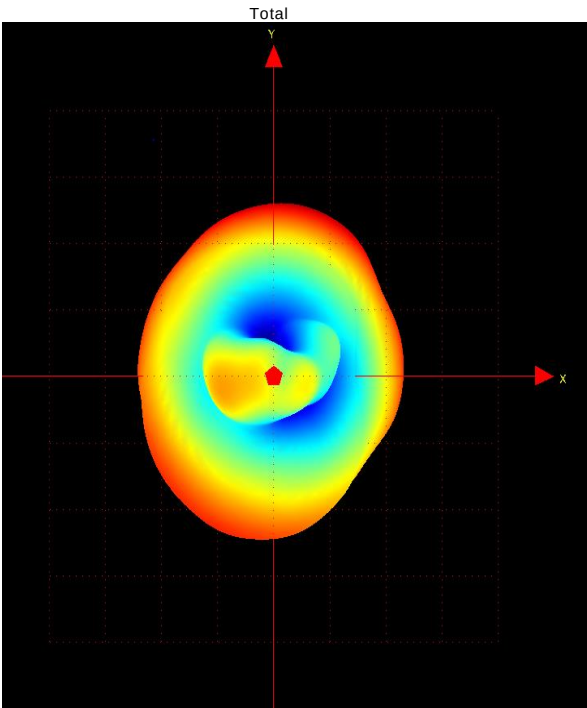
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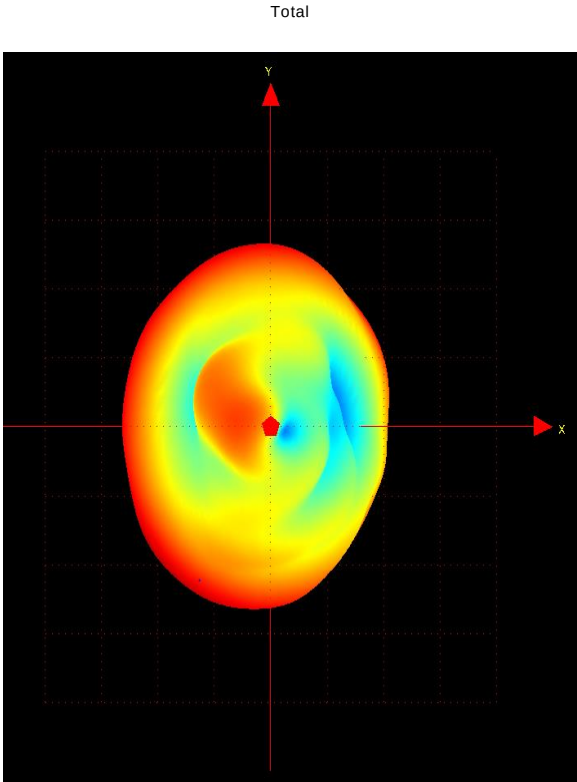


DIV

880MHz

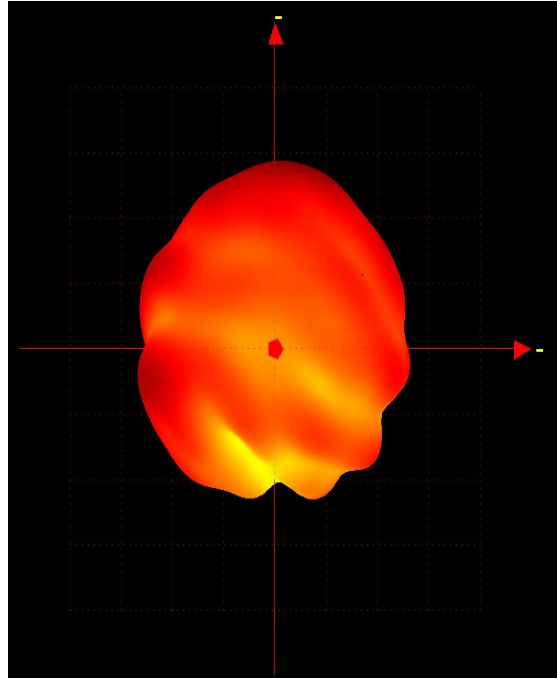


960MHz



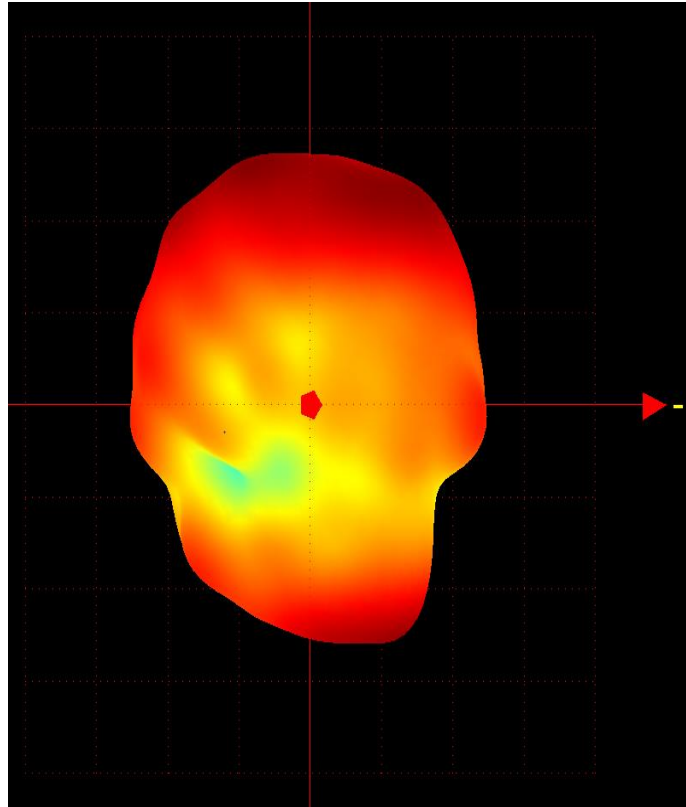
1980MHz

Total



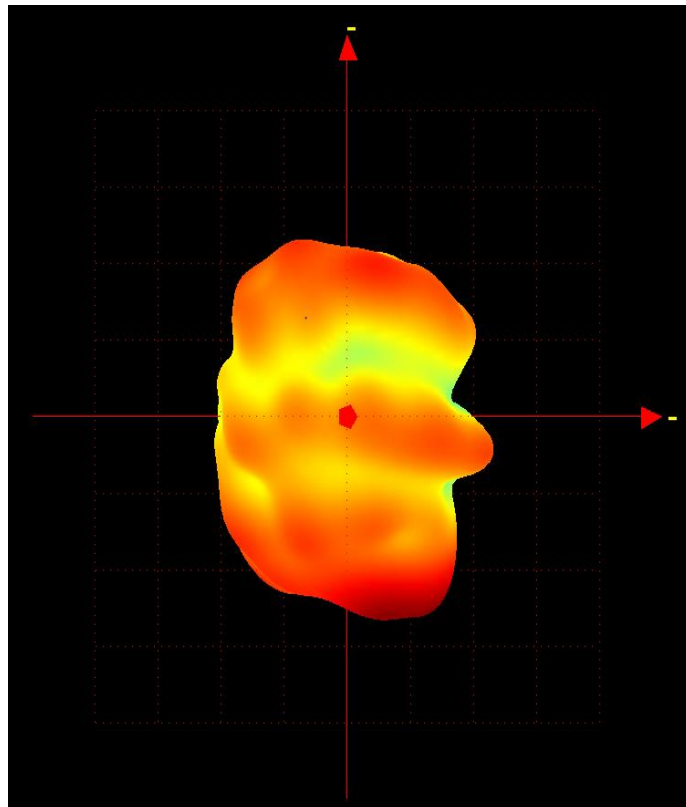
2340MHz

Total

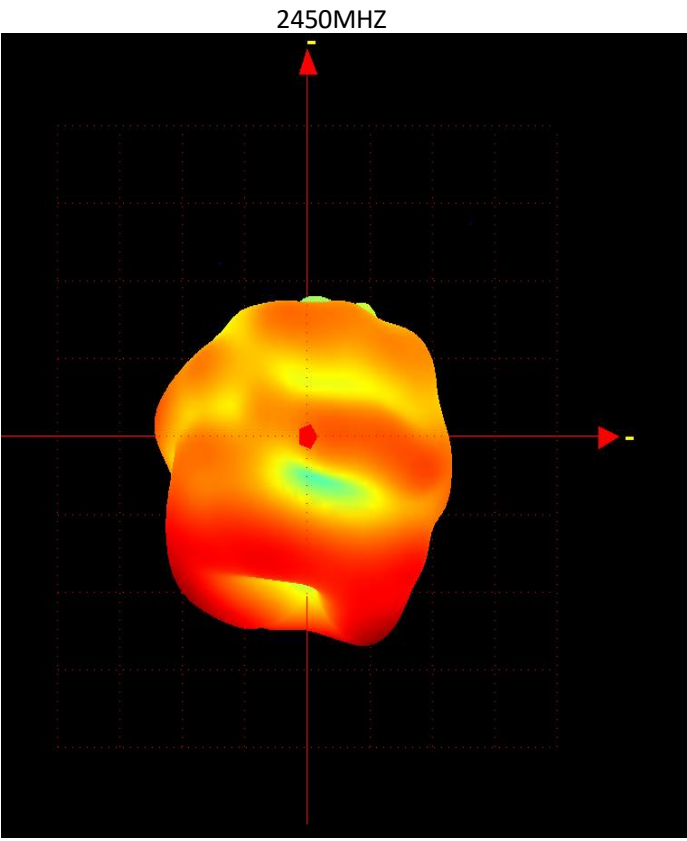
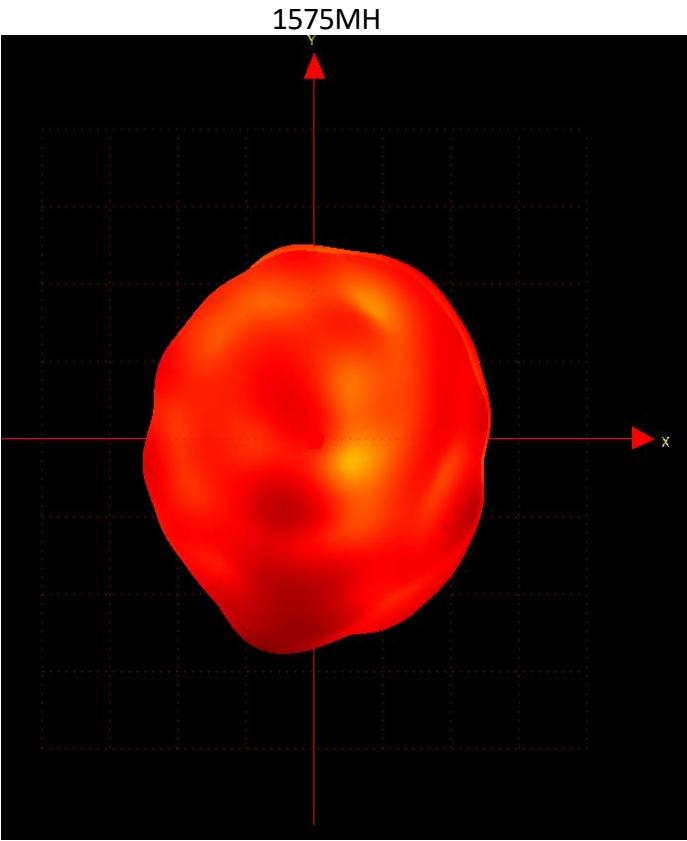


2560MHz

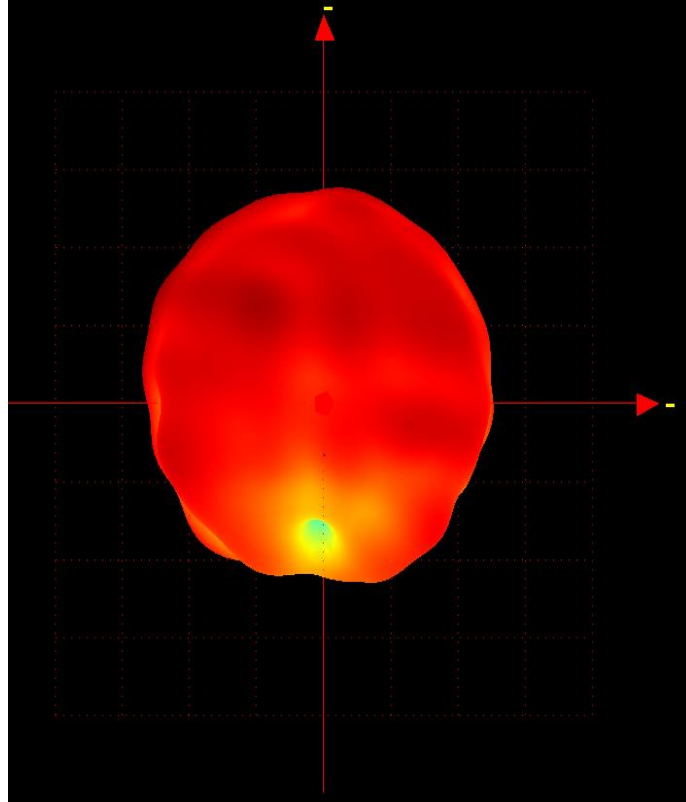
Total



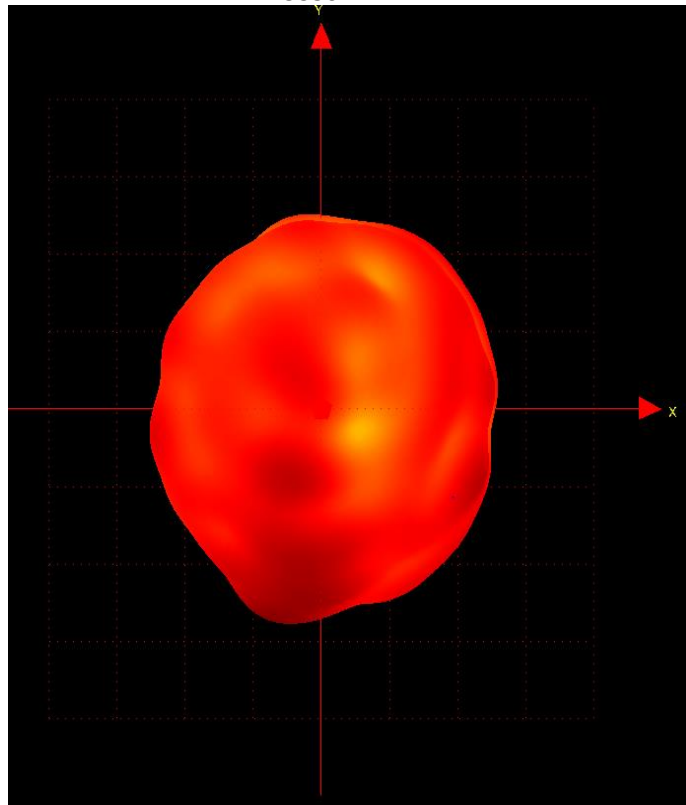
GPS/WIFI/BT



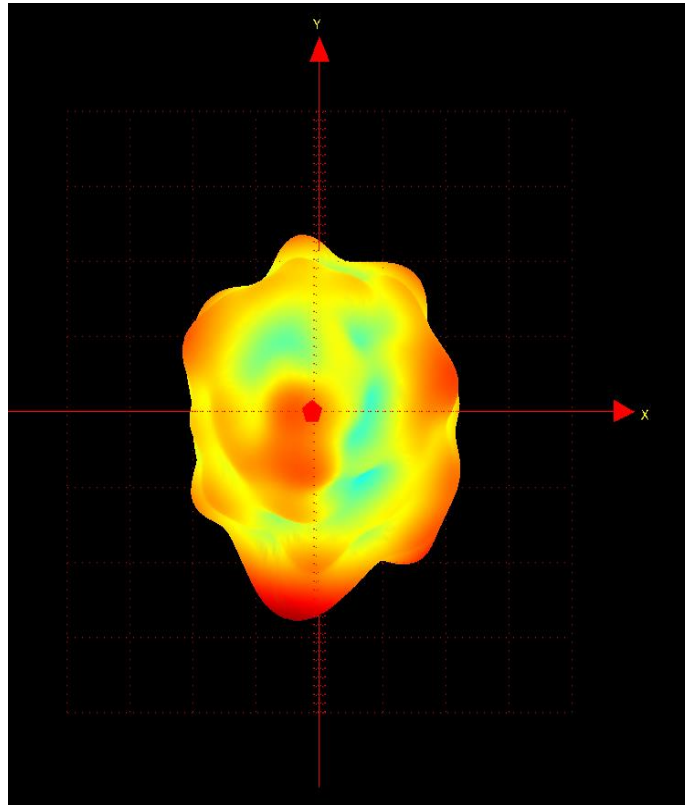
5150MHZ



5350MHZ



5850MHZ



Sub 6G

3880MHZ

