Shenzhen Anwei Wireless Technology Co., Ltd

M513H Antenna report

RF: LEI YAO BO

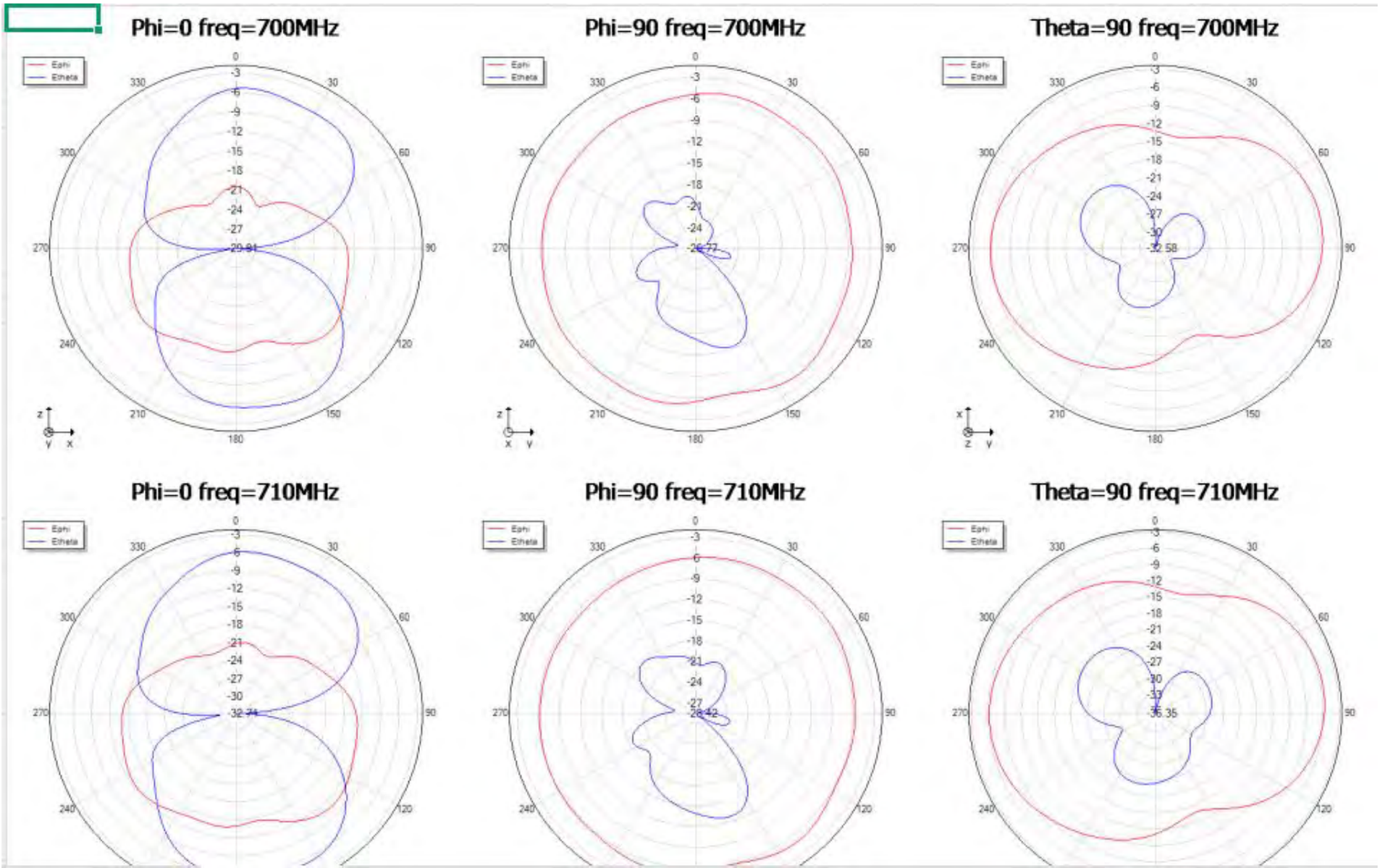
Mobile phone number: 15986728949

Report edition: 2025.5.6

Introduction to project debugging

Plate type	Machine						
Antenna profile	Main antenna	Band		Antenna status	Antenna form	Design area	Match the changes
		2G	B2/3/5/8	Metal frame antenna	PIFA	The bottom of the phone	Yes
		3G	WCDMA B1/2/4/5/8				
		4G	FDD B1/2/3/4/5/7/8/12/17/18/19/20/26/28A/B/66 TDD 38/40/41				
		5G					
	Other antennas	BT/WIFI	2.4G/5G/WIFI/BT	FPC+Metal frame antenna	PIFA	The top of the phone	NO
		GPS	1575				NO
		Episode		Metal frame antenna	PIFA	The top of the phone	YES

LTE B12/17/28ABApple Diagram and Direction Chart



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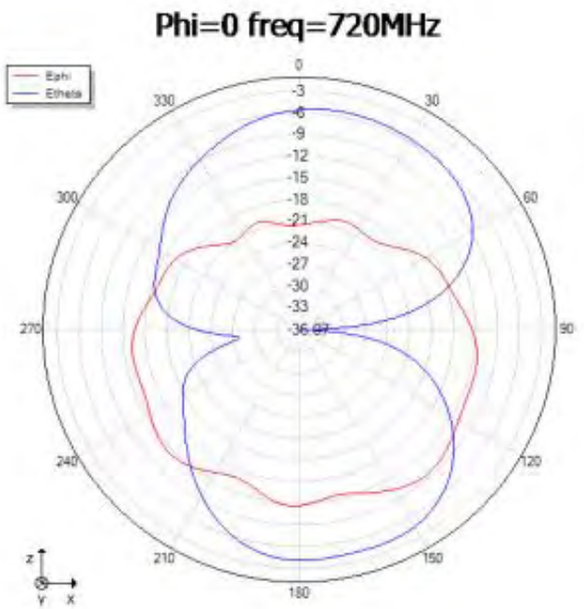

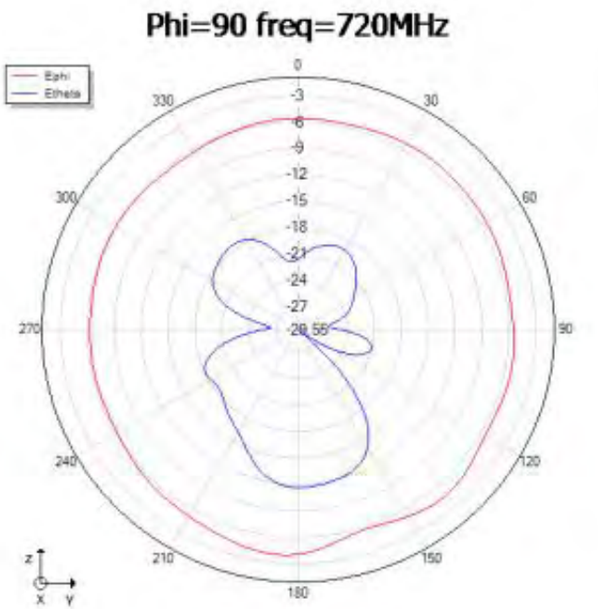

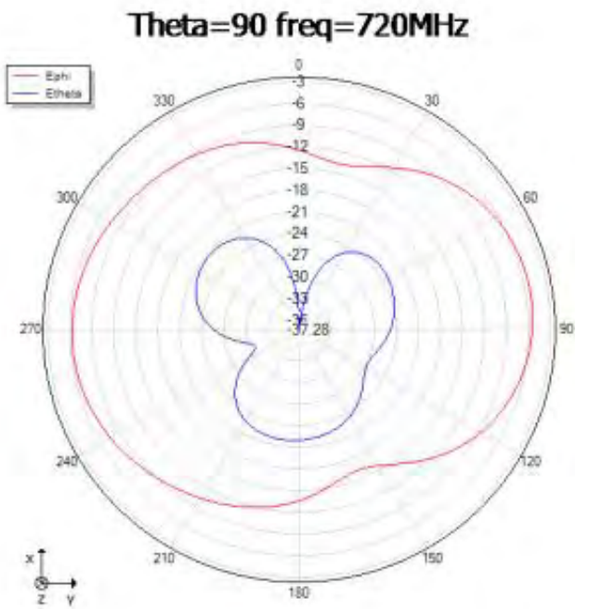

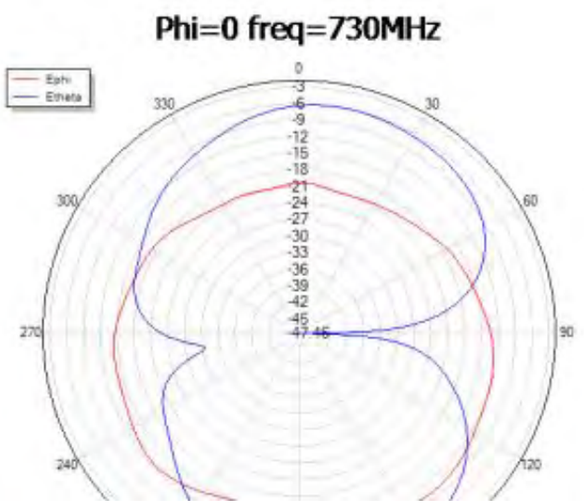

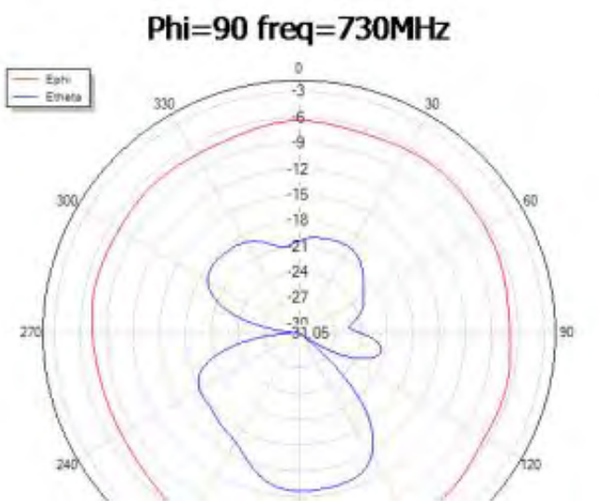

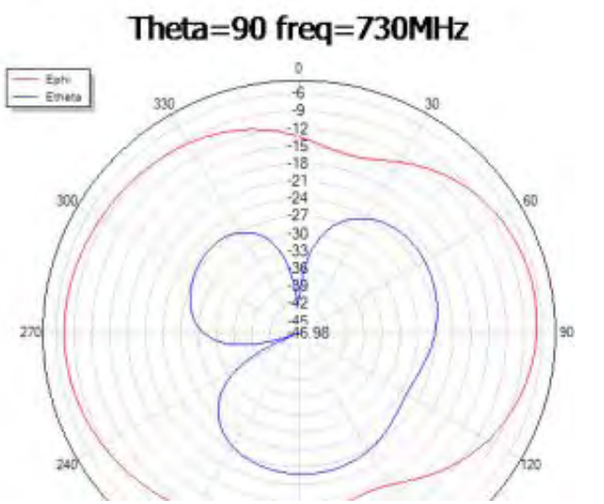

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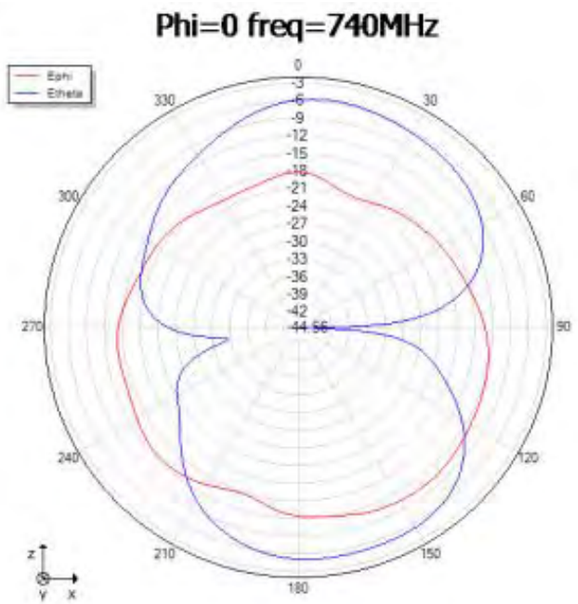

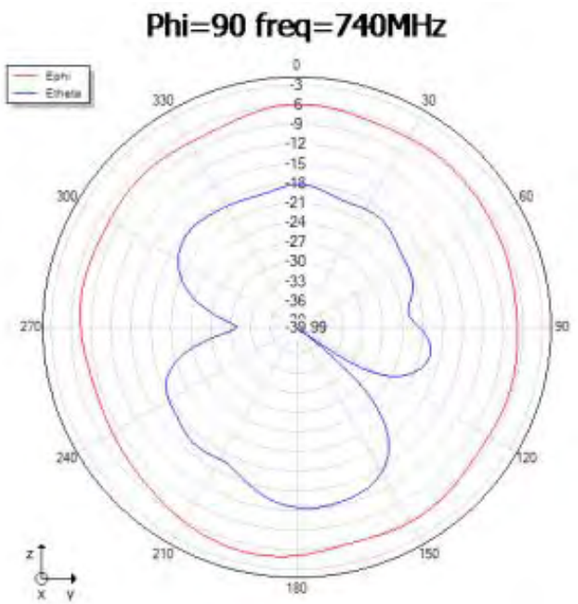

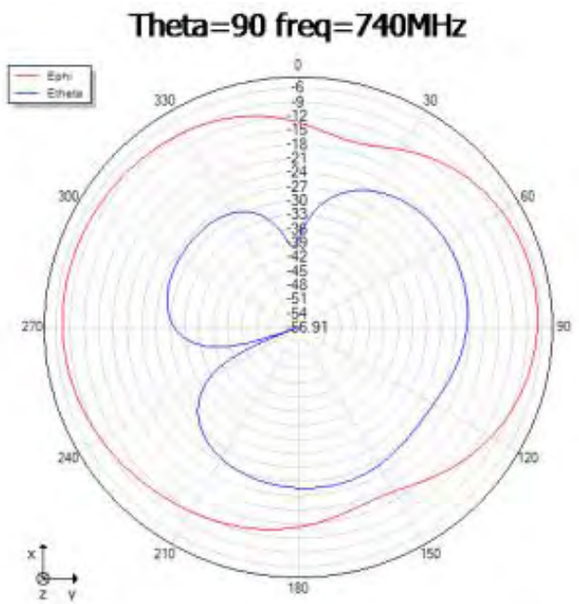

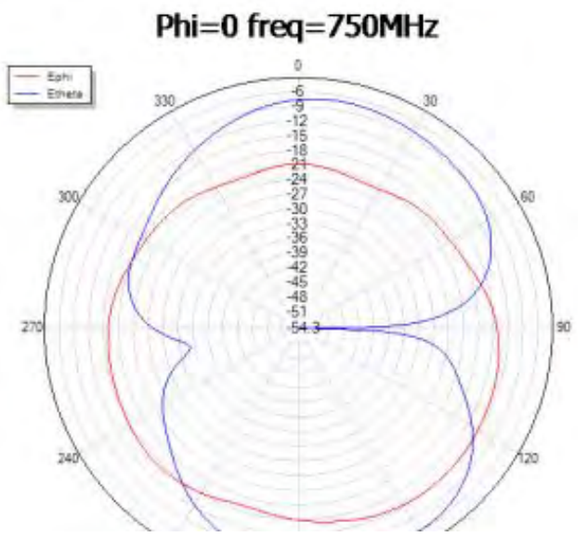

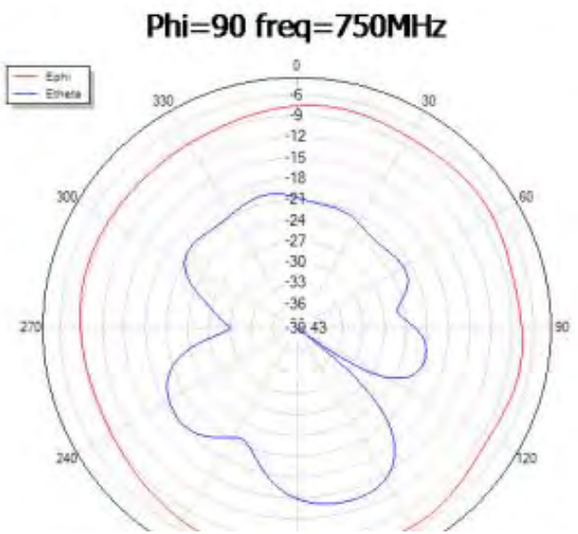

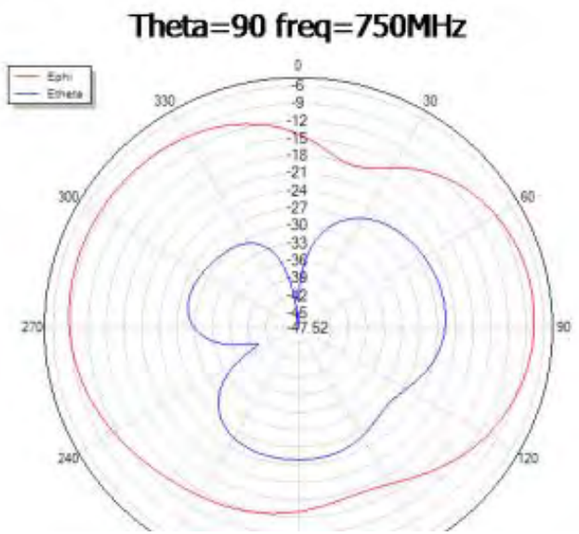

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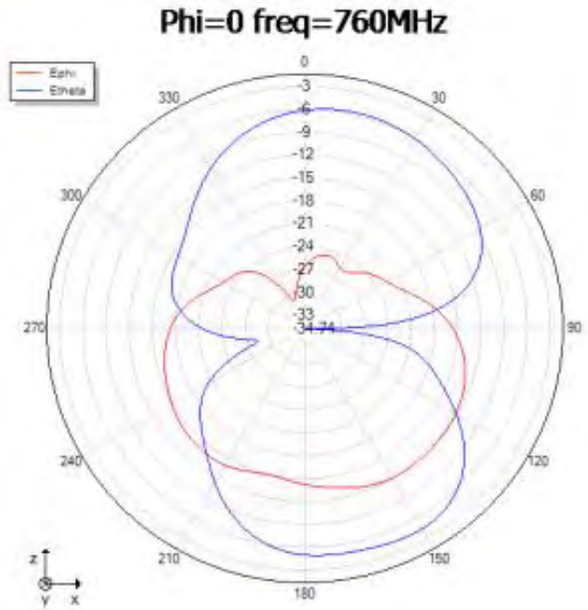
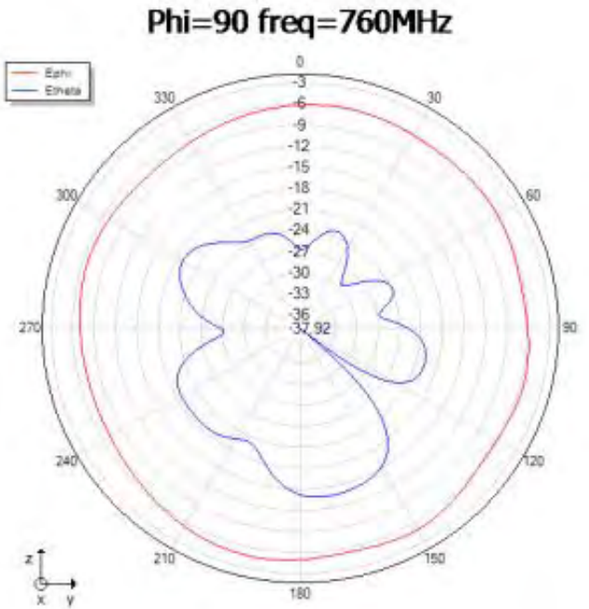
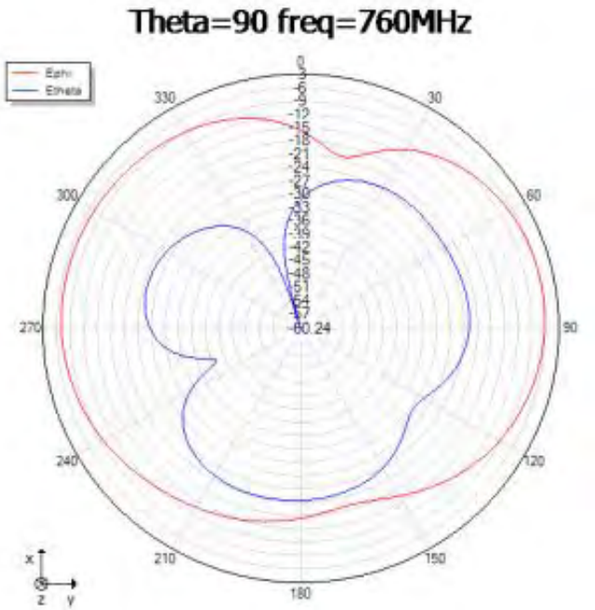
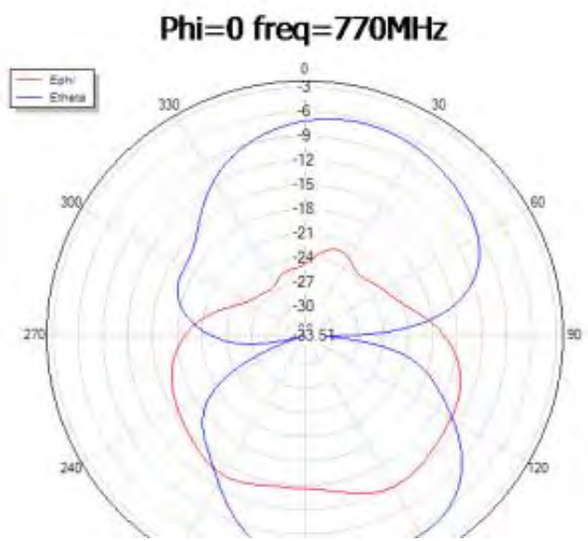
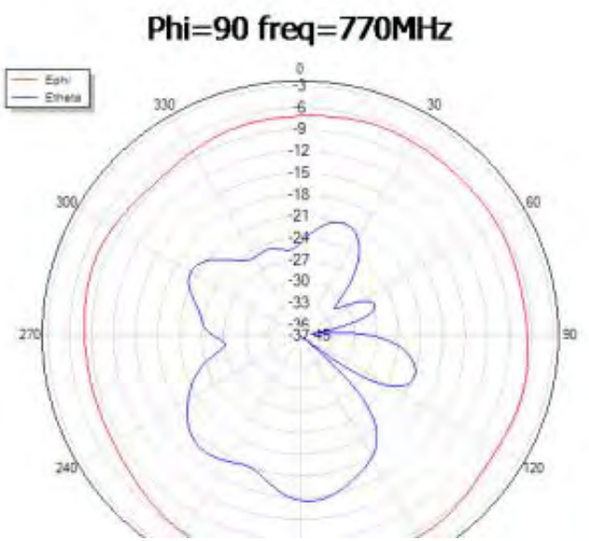
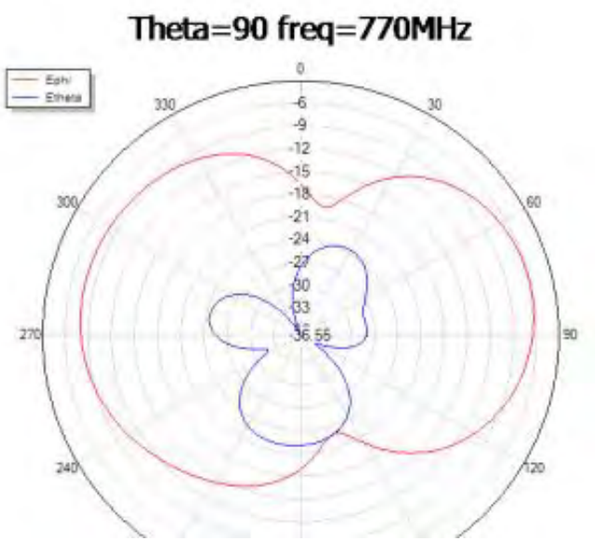






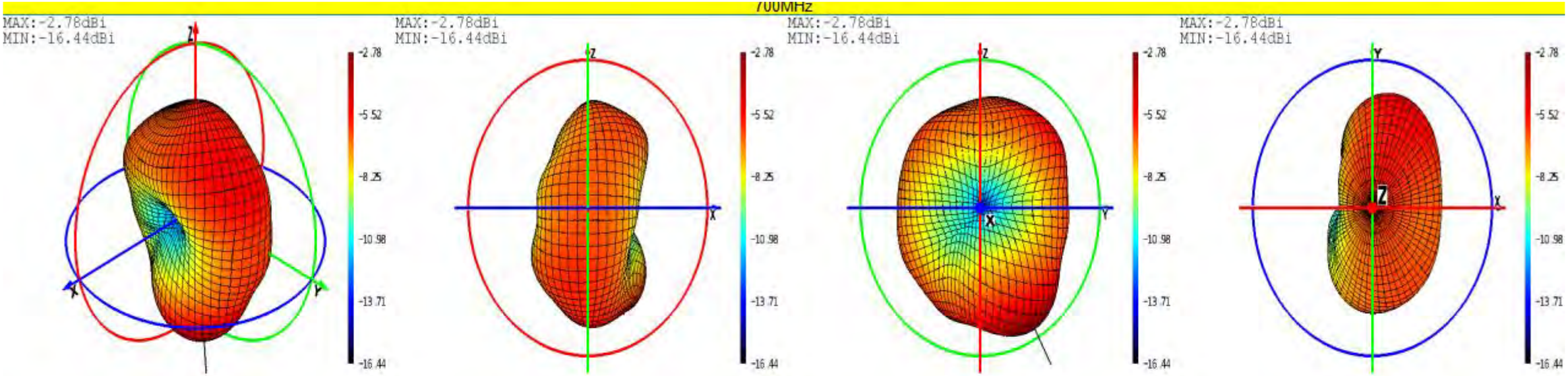






LTE B12/17/28ABApple Diagram and Direction Chart

700MHz



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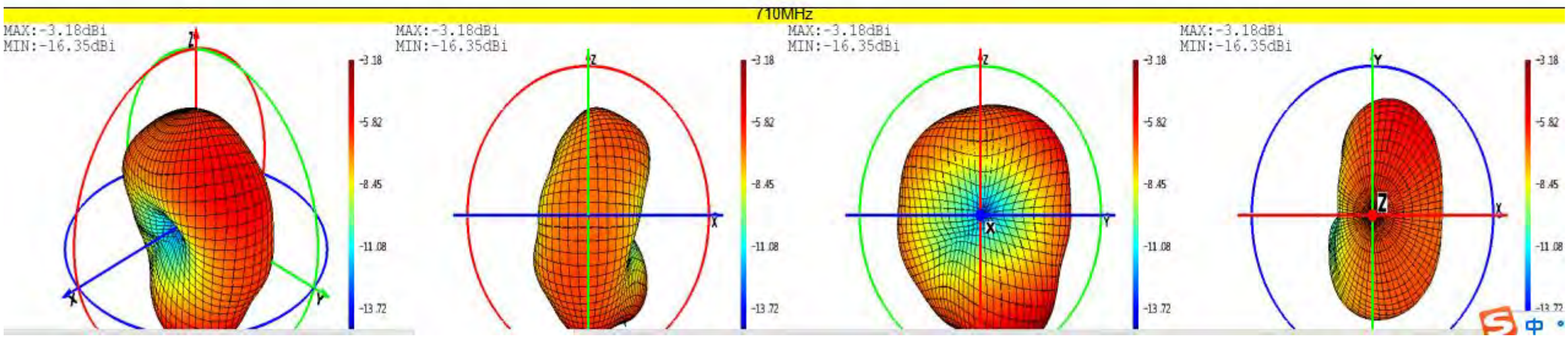
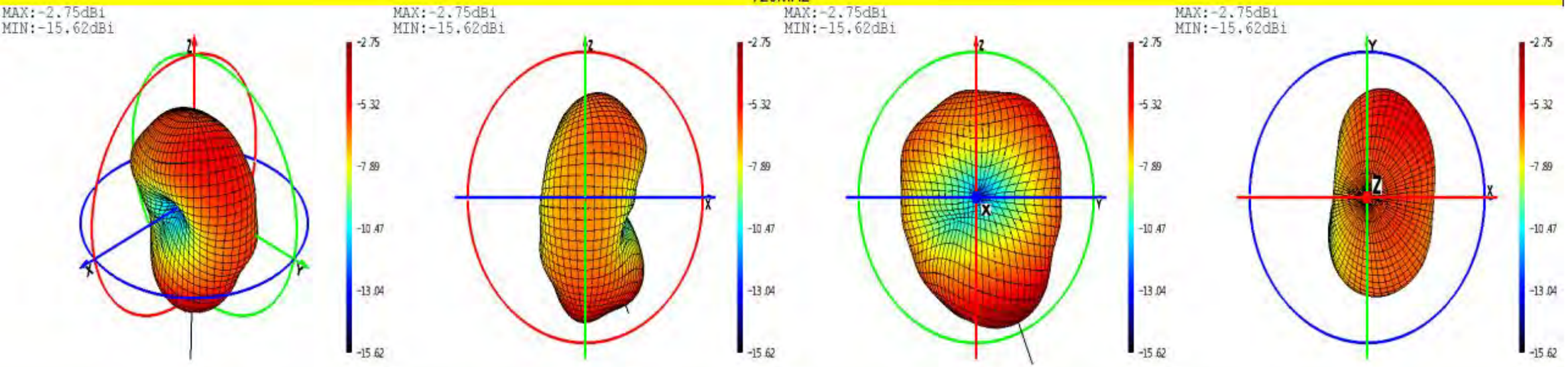


LTE B12/17/28ABApple Diagram and Direction Chart

720MHz



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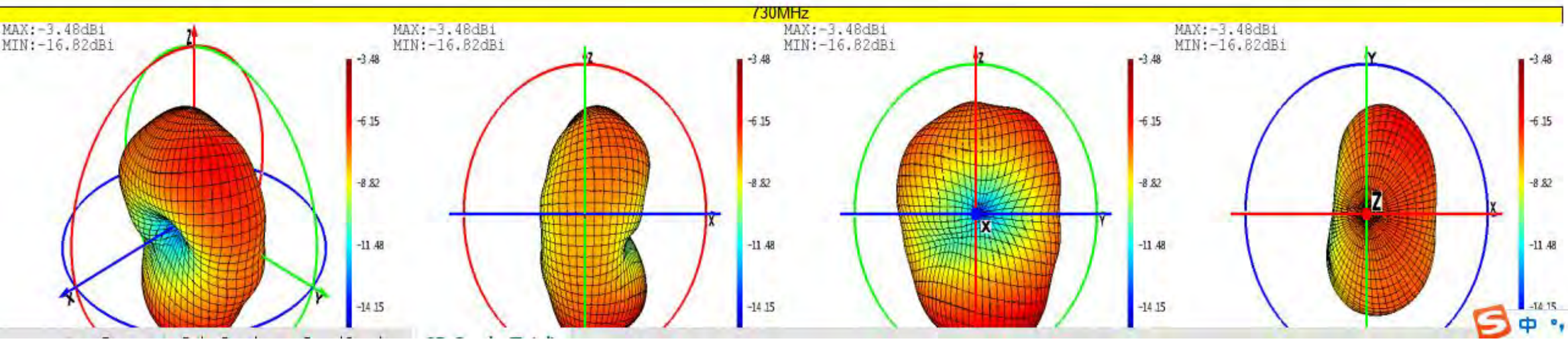
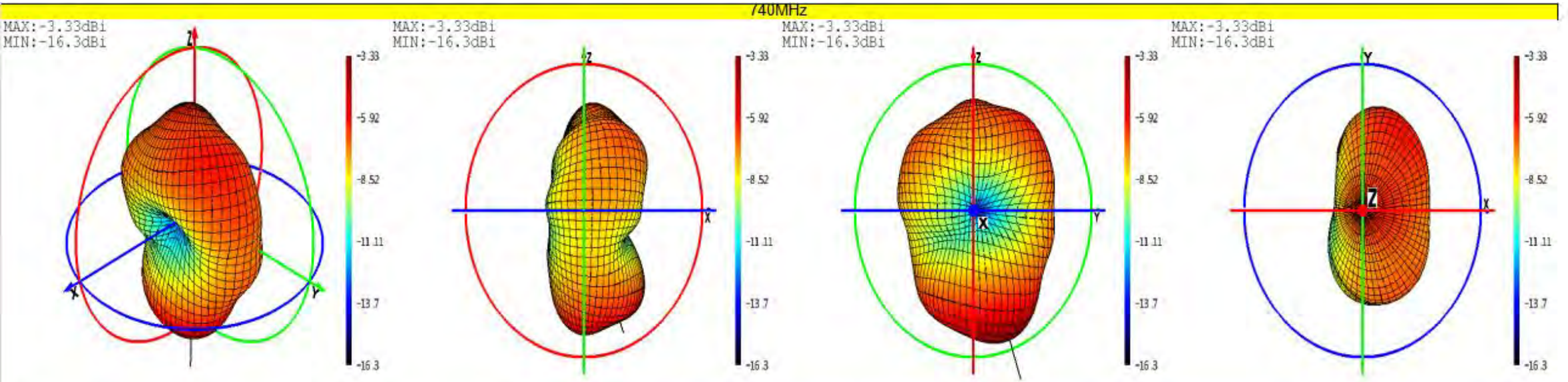


LTE B12/17/28ABApple Diagram and Direction Chart

740MHz



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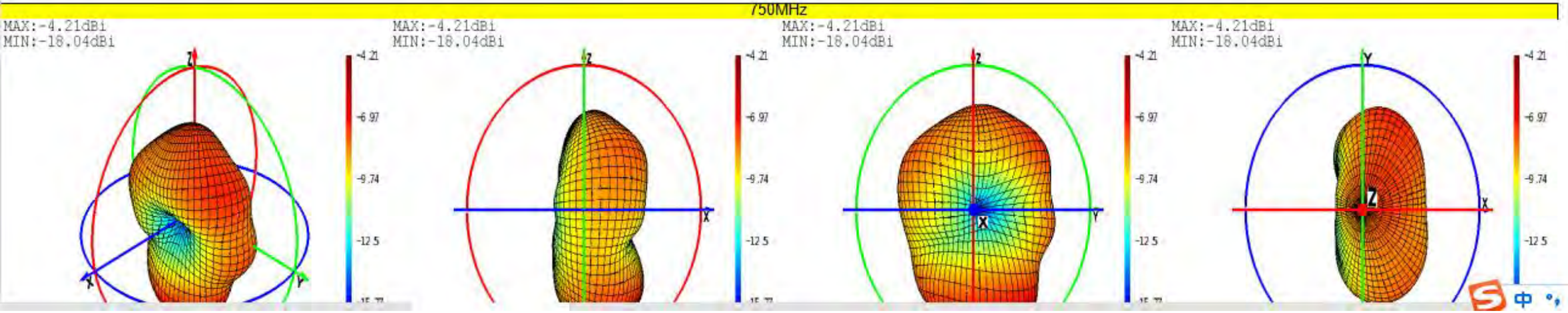
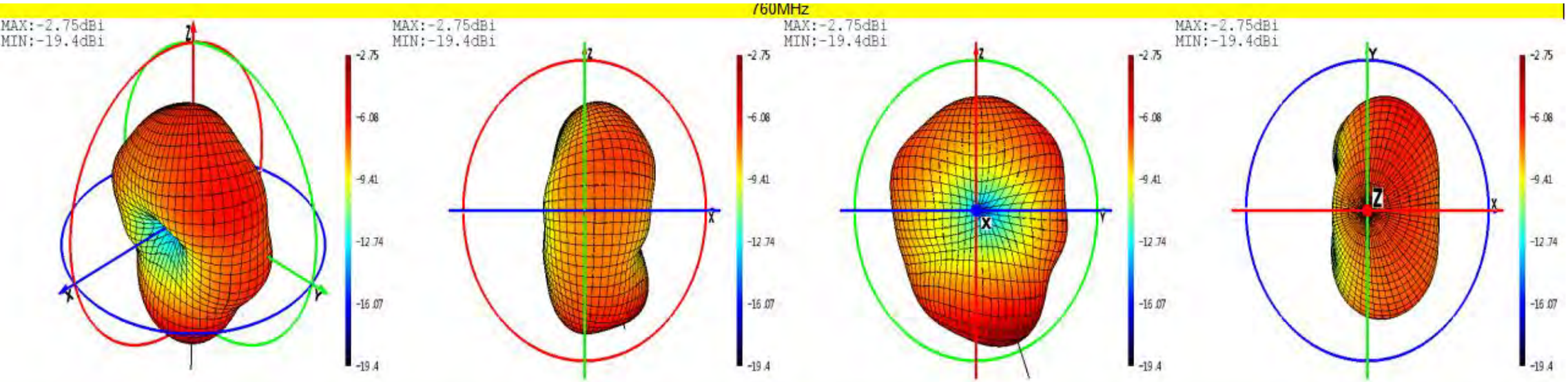


LTE B12/17/28ABApple Diagram and Direction Chart

760MHz



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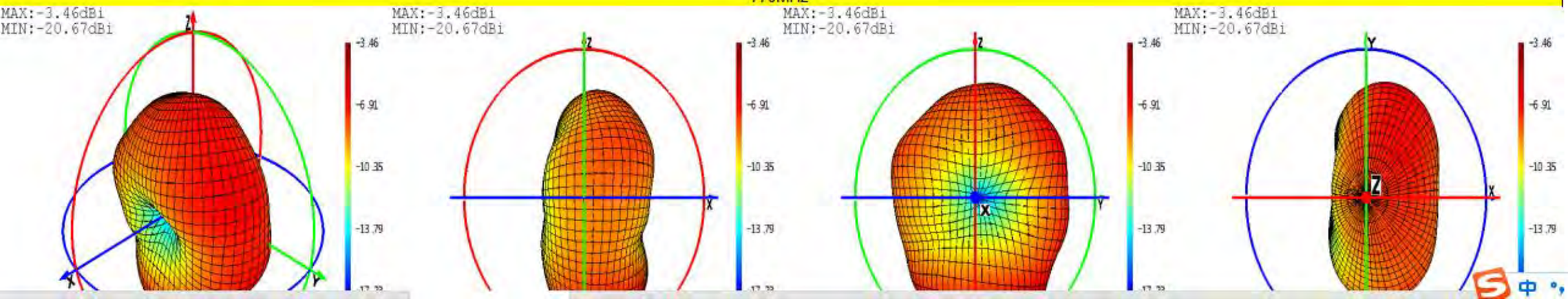
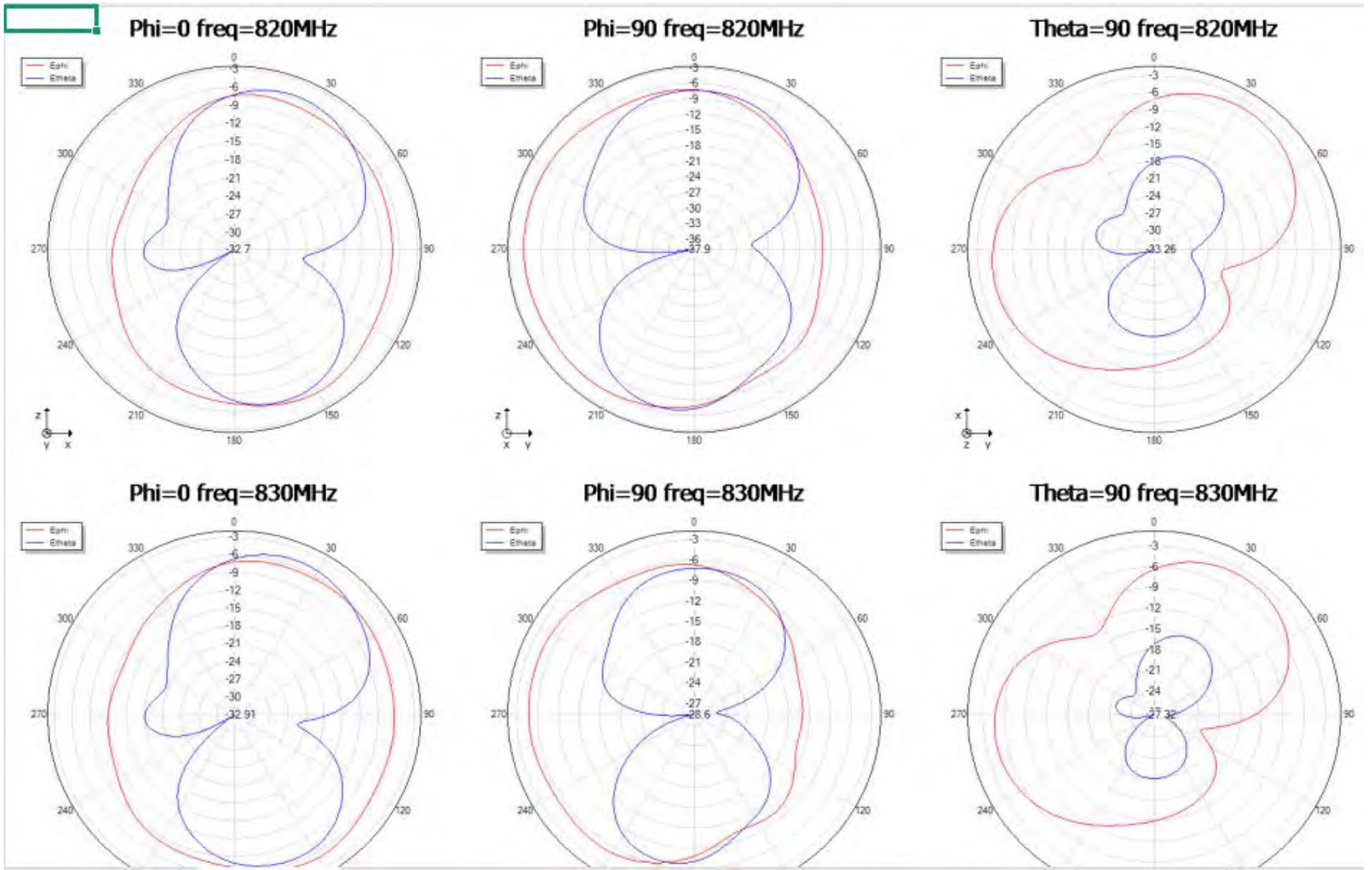
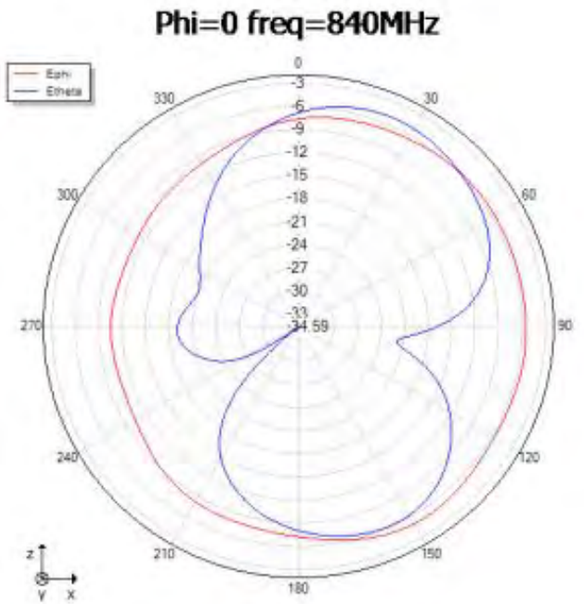
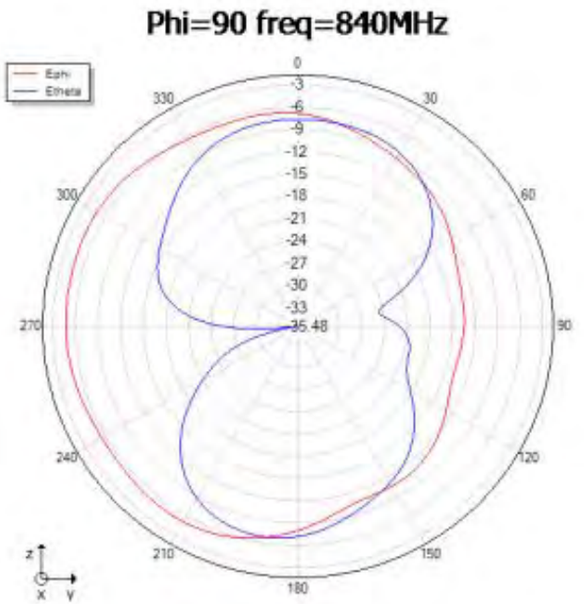


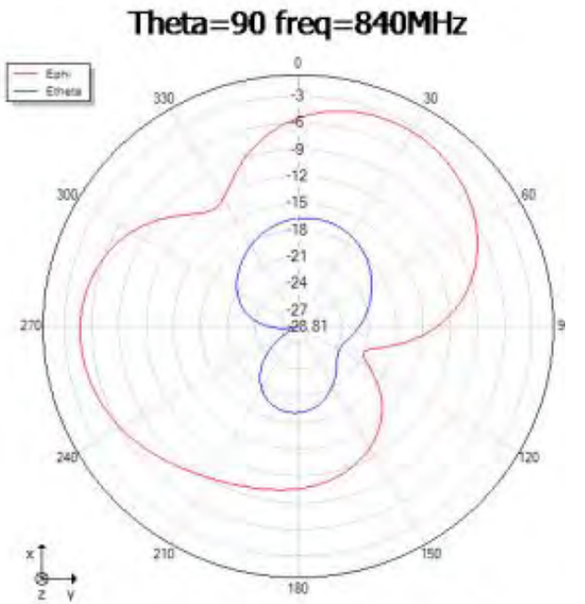
LTE B5/18/19/20/26 GSM850 W5Apple Diagram and Direction Chart

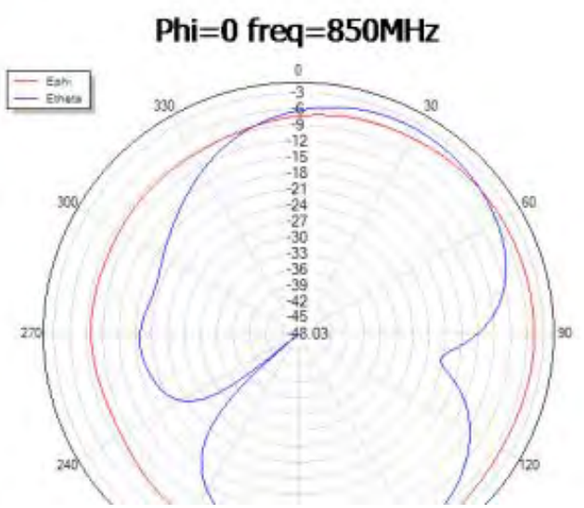


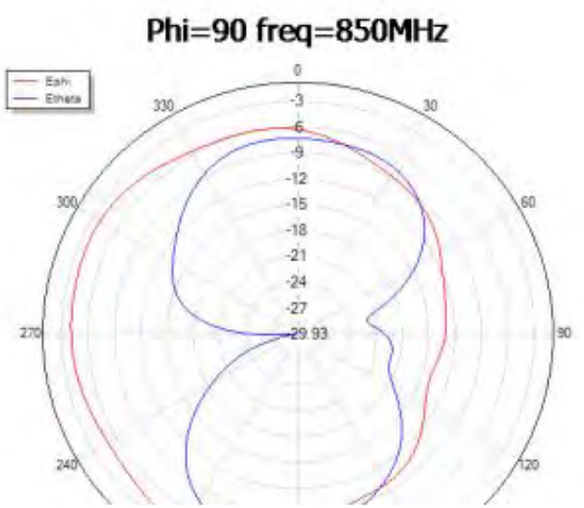
LTE B5/18/19/20/26 GSM850 W5Apple Diagram and Direction Chart

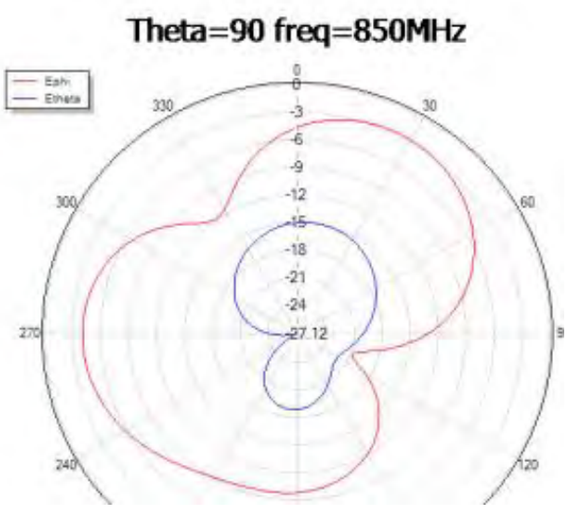




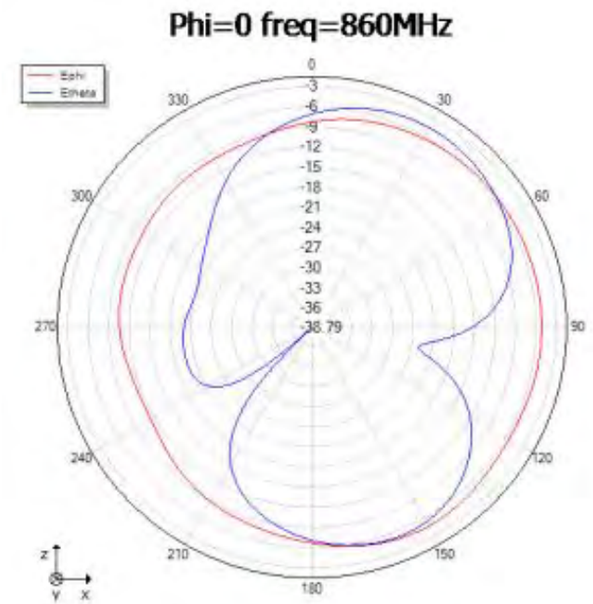


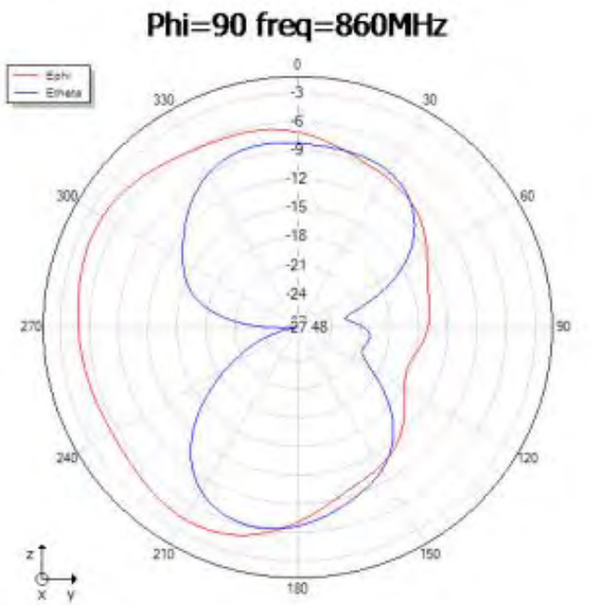


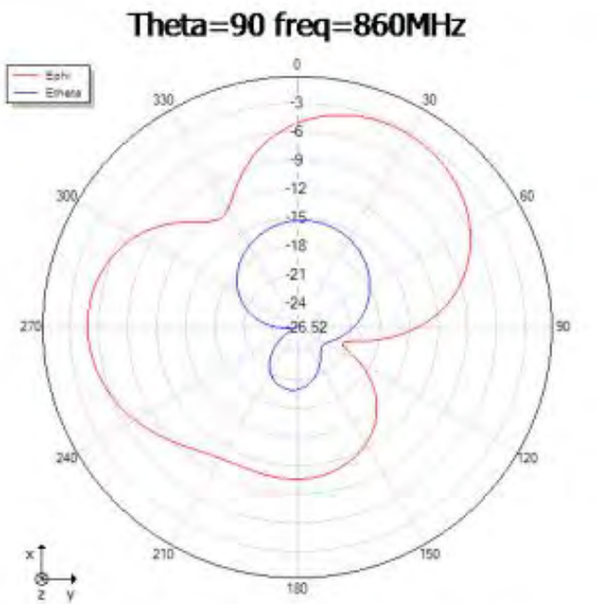


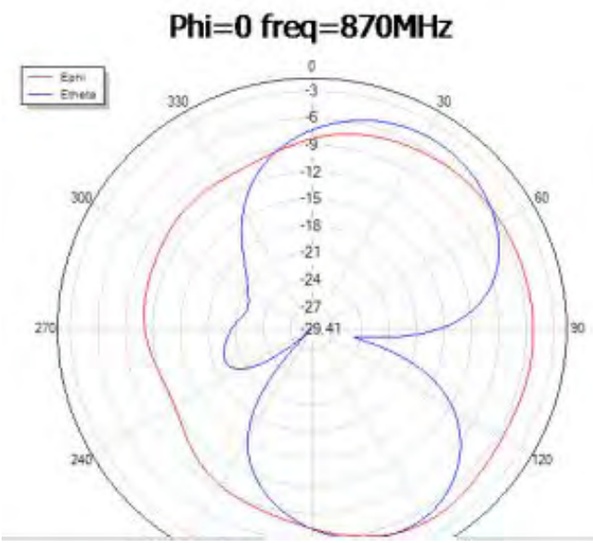


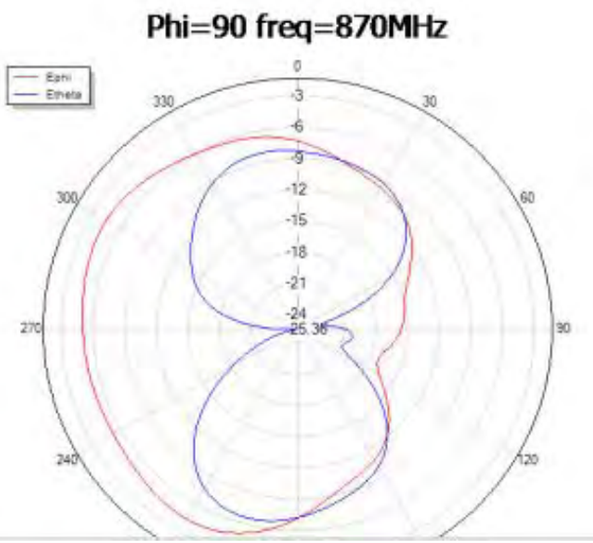
LTE B5/18/19/20/26 GSM850 W5Apple Diagram and Direction Chart

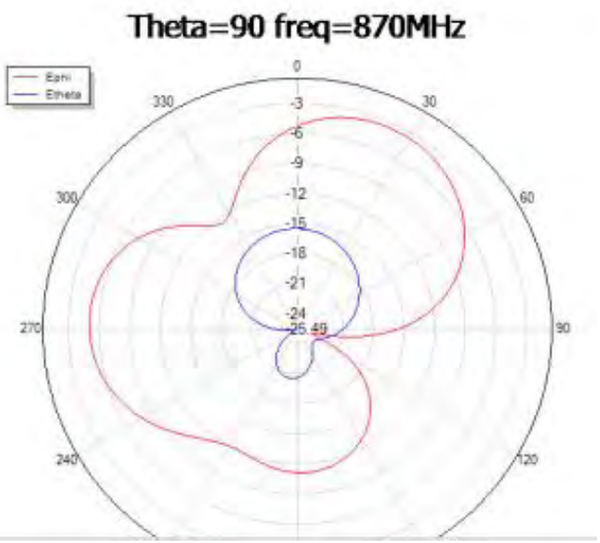




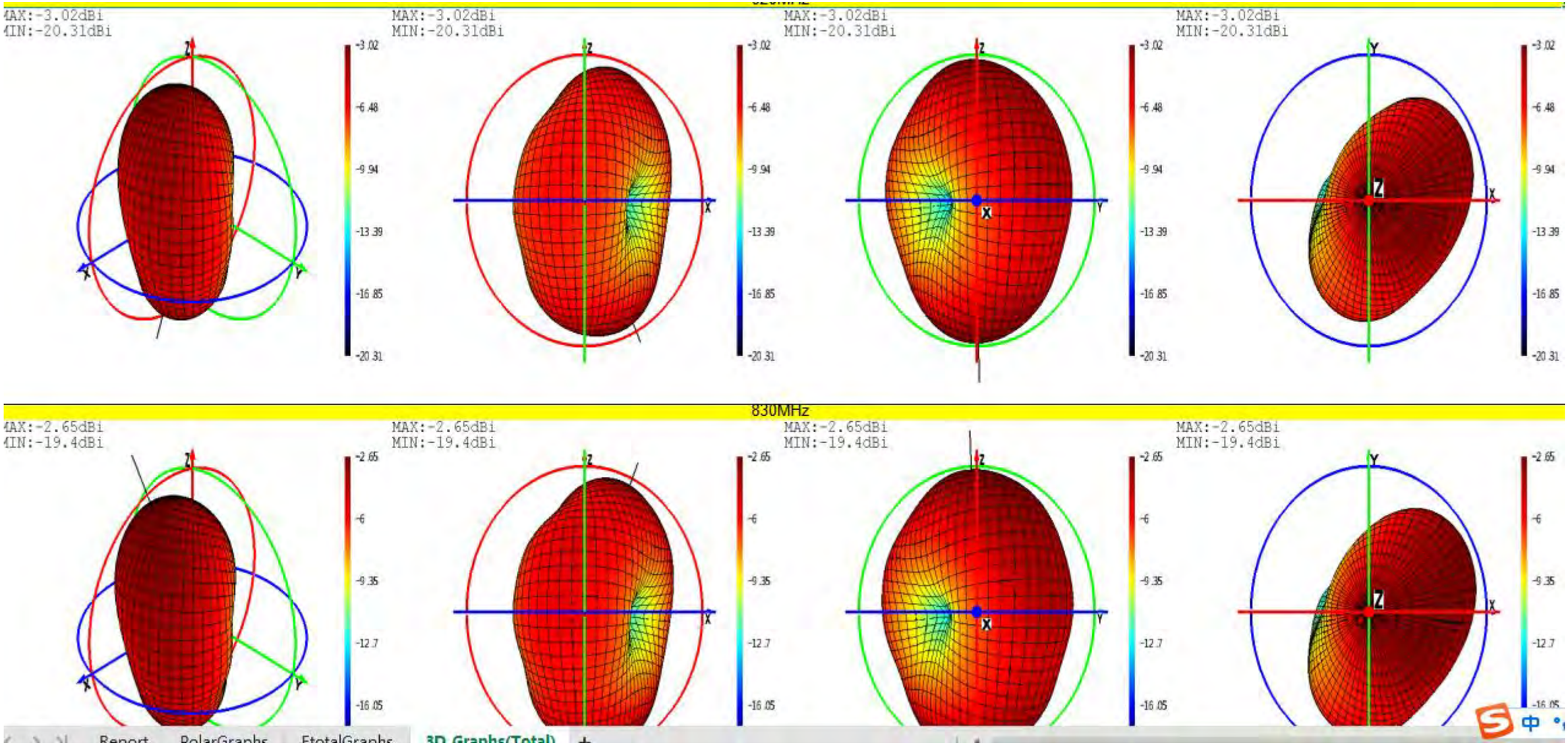




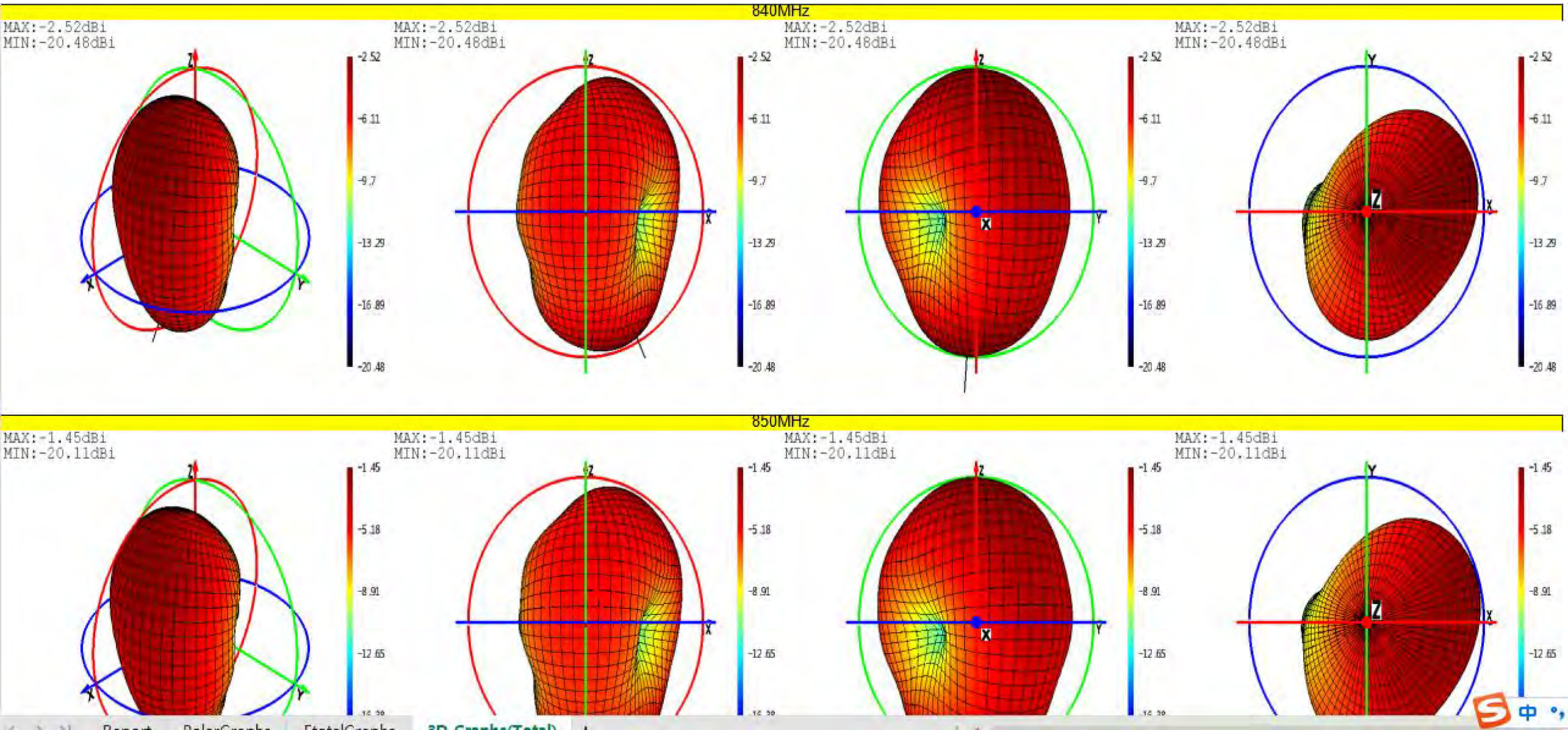




LTE B5/18/19/20/26 GSM850 W5Apple Diagram and Direction Chart



LTE B5/18/19/20/26 GSM850 W5Apple Diagram and Direction Chart



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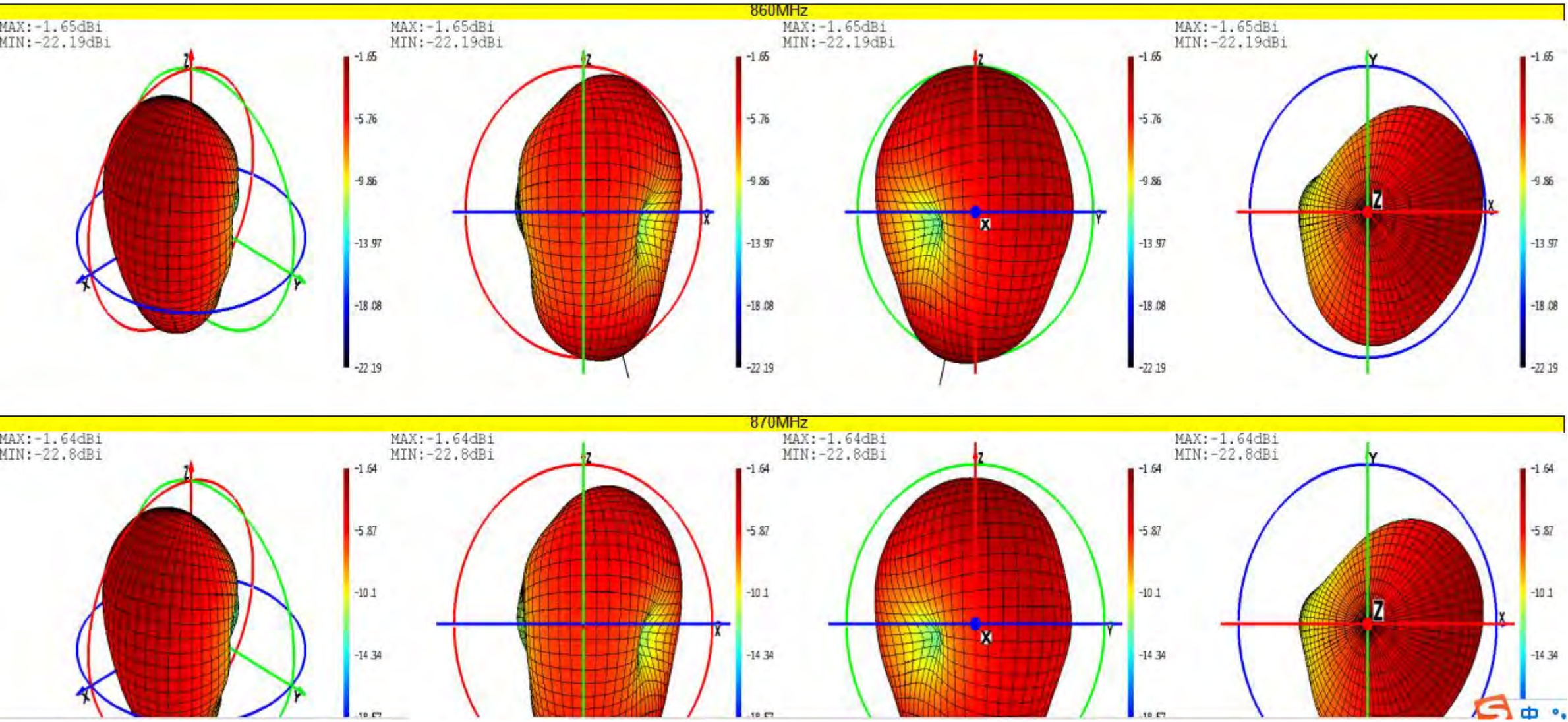
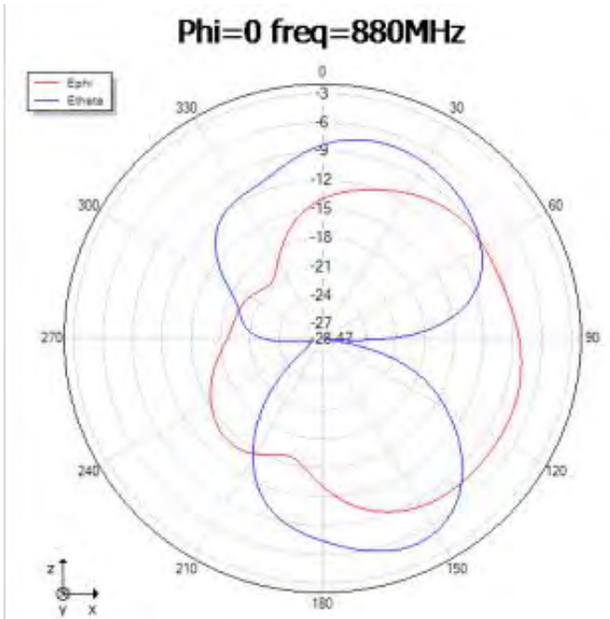
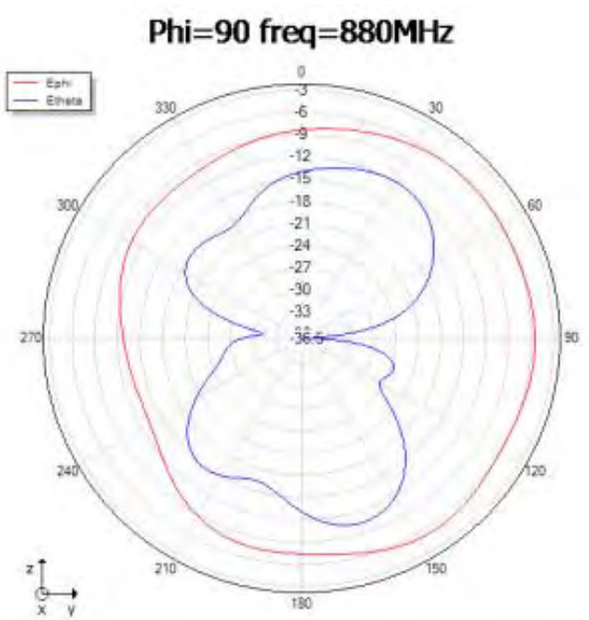
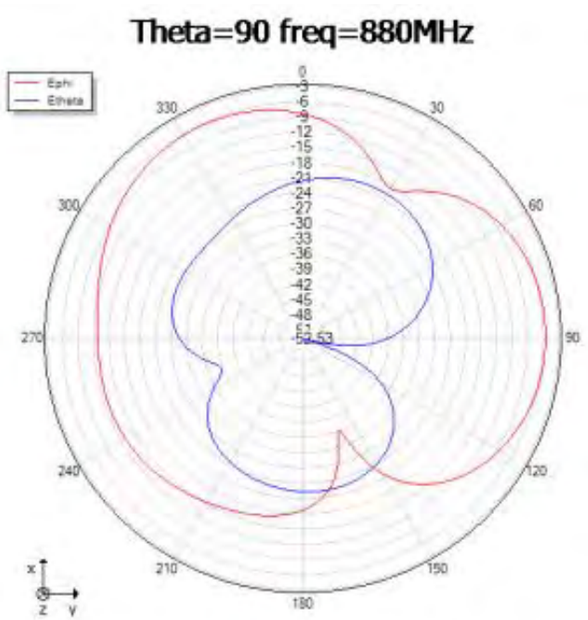
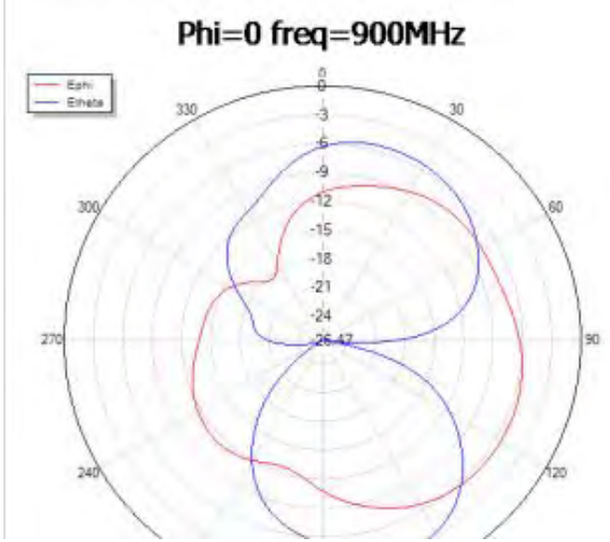


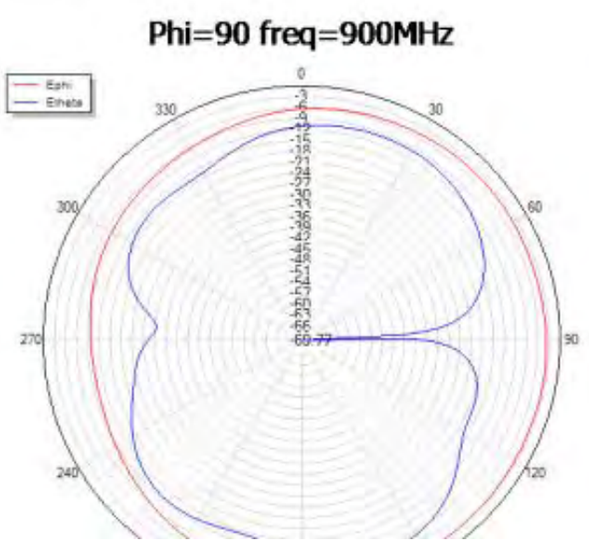
LTE B8 GSM900 W8Apple Diagram and Direction Chart

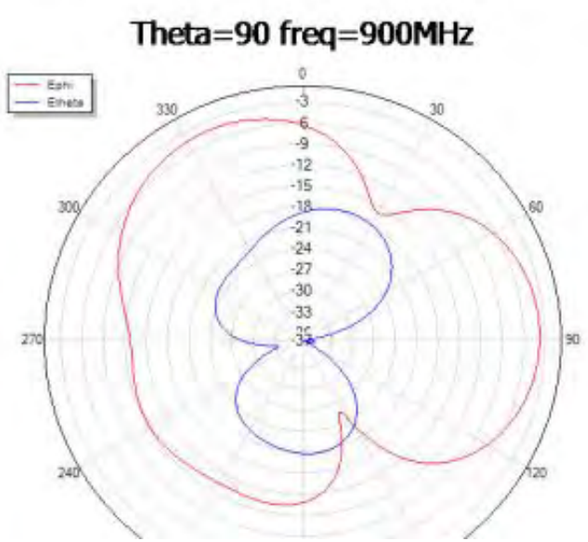




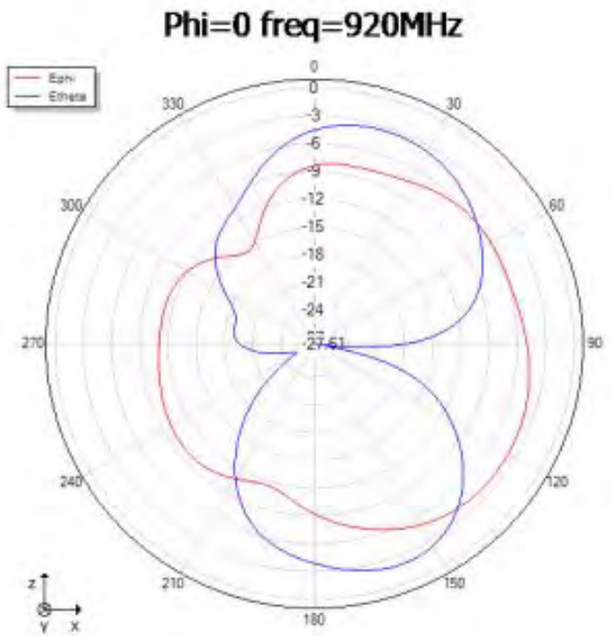


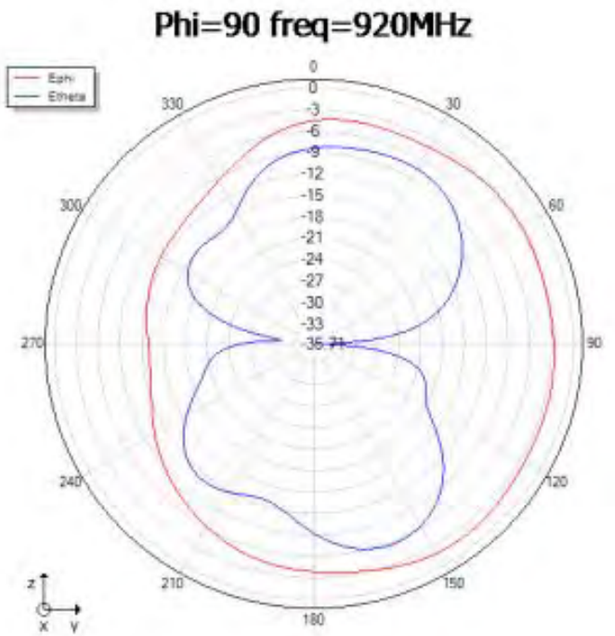


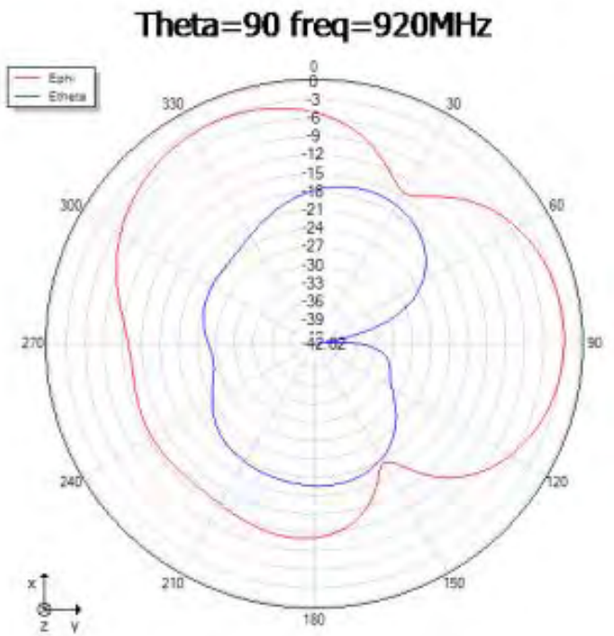


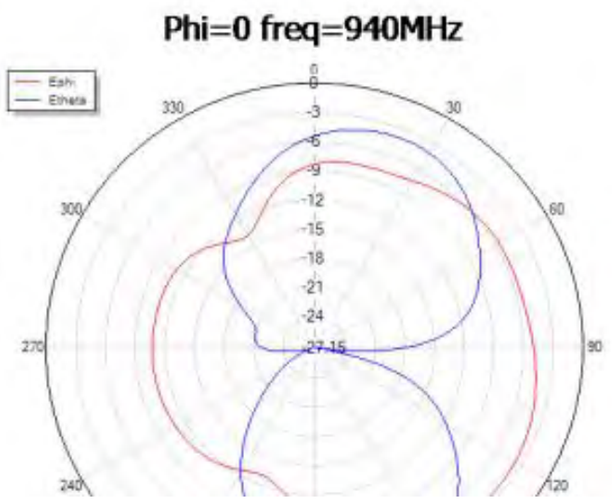


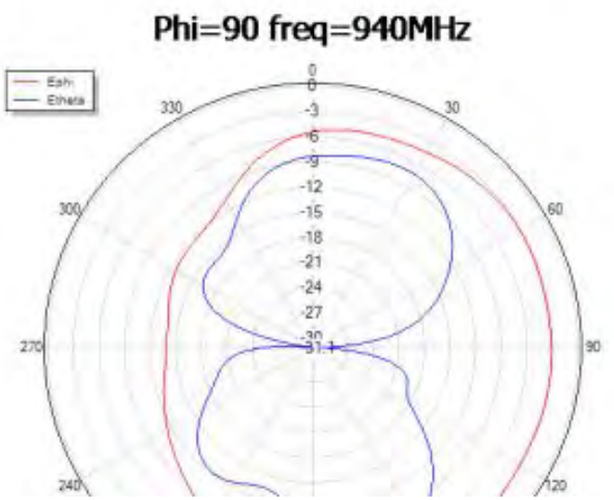
LTE B8 GSM900 W8Apple Diagram and Direction Chart

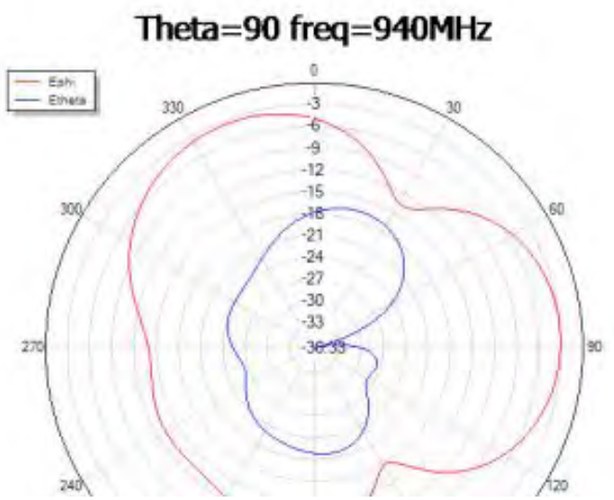




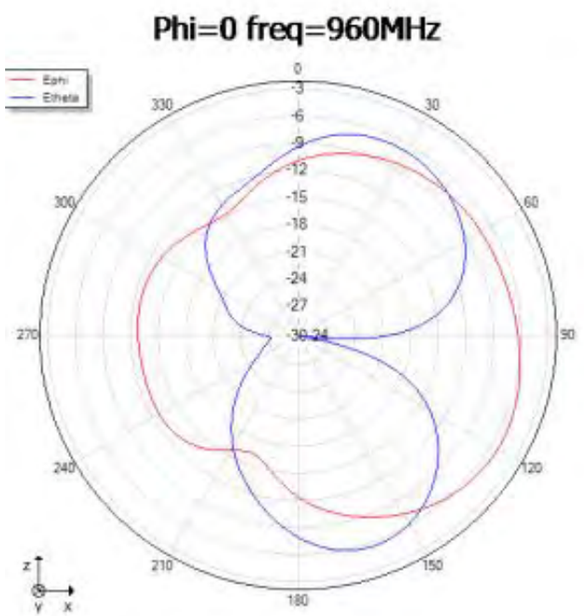


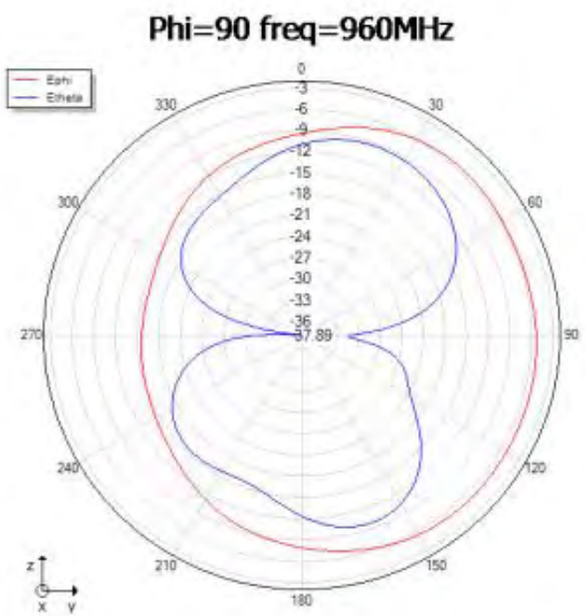


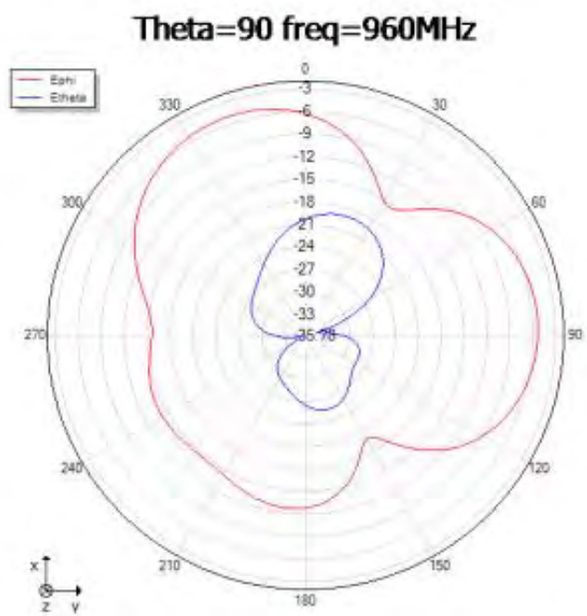


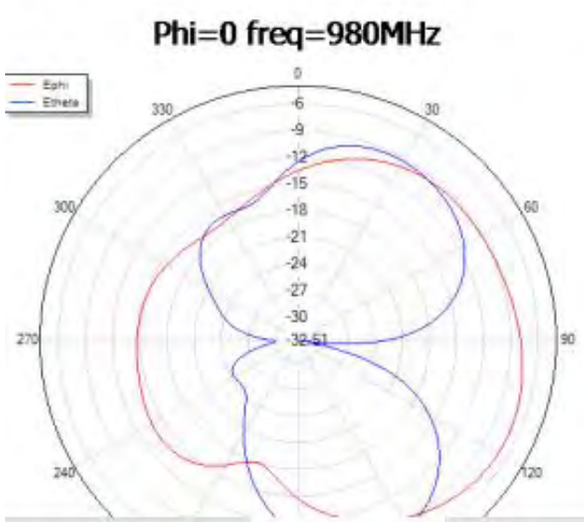


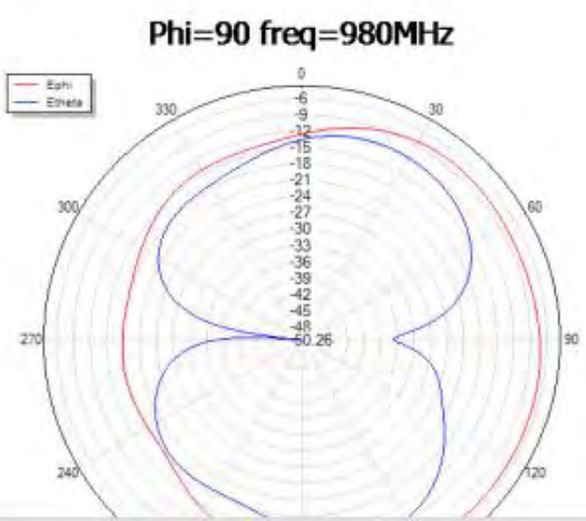
LTE B8 GSM900 W8Apple Diagram and Direction Chart

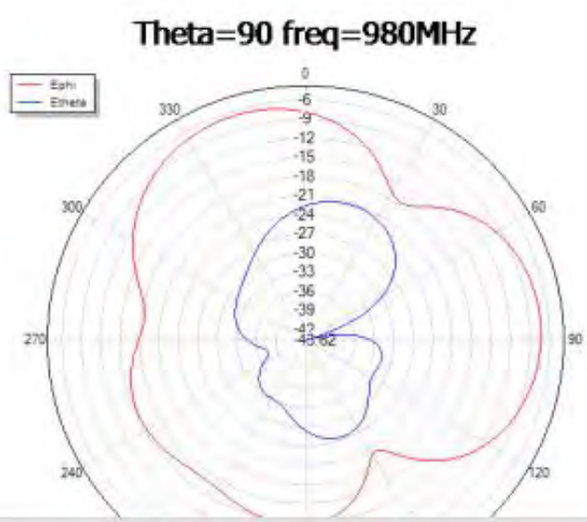




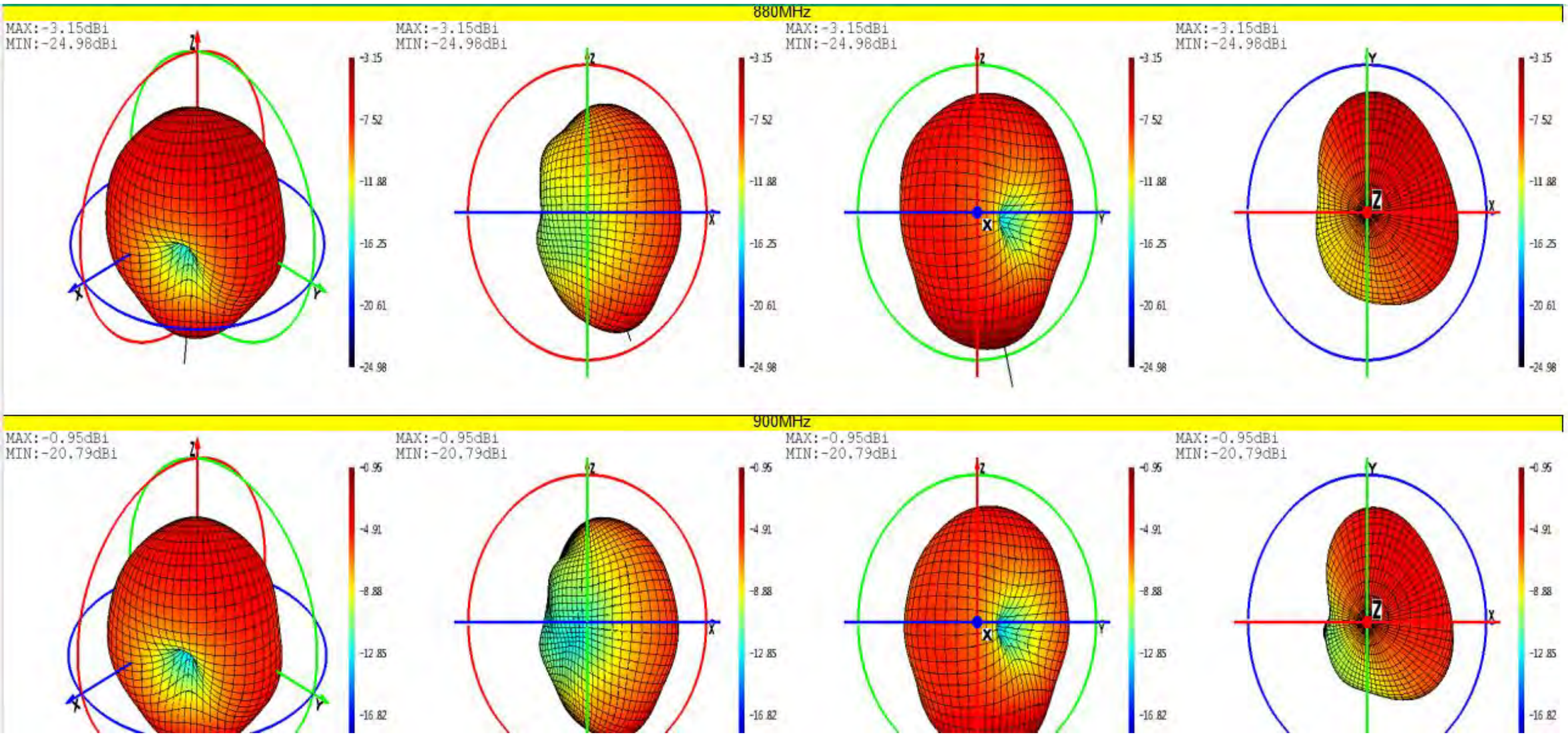




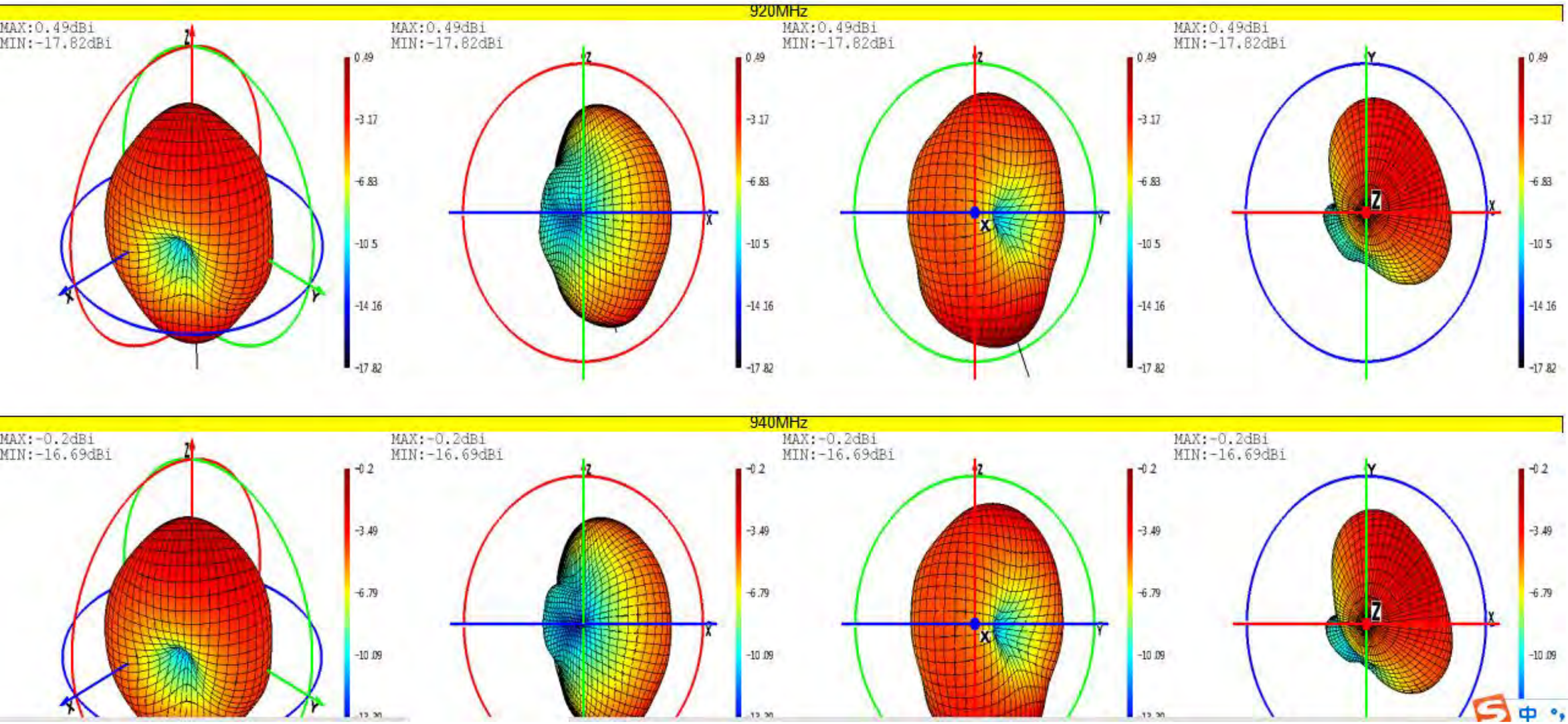




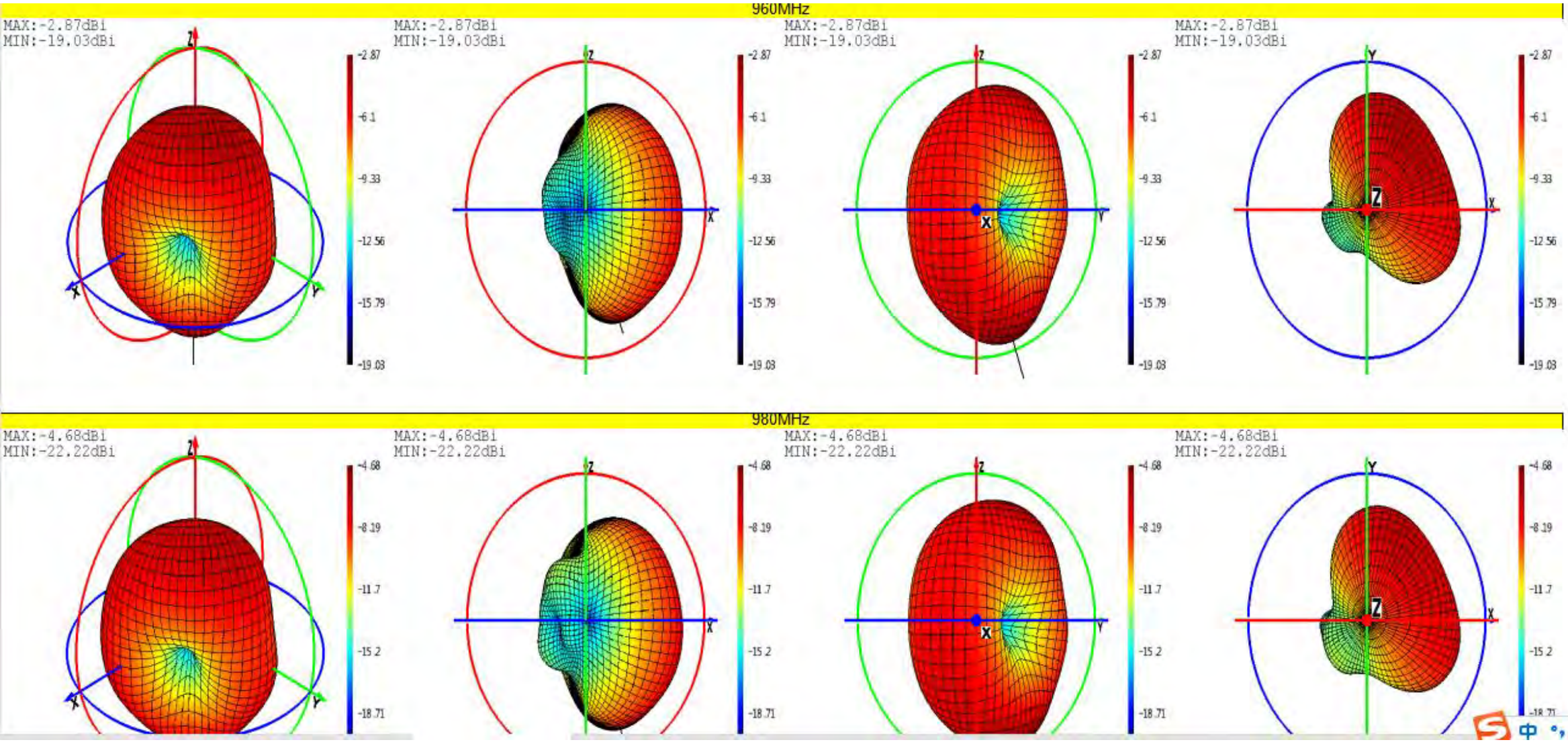
LTE B8 GSM900 W8Apple Diagram and Direction Chart



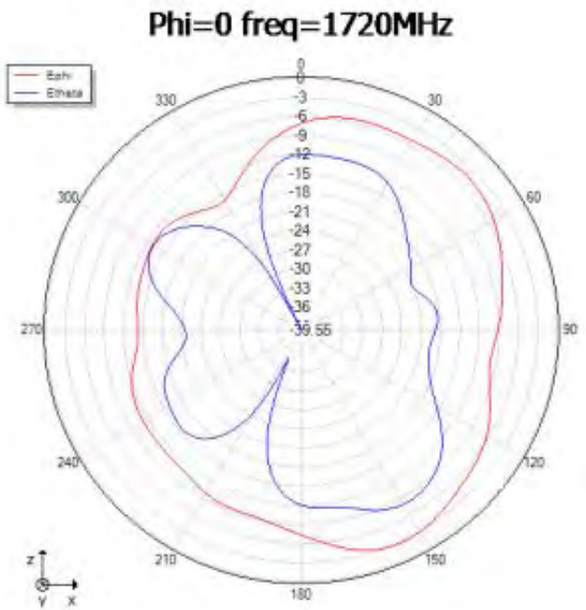
LTE B8 GSM900 W8Apple Diagram and Direction Chart

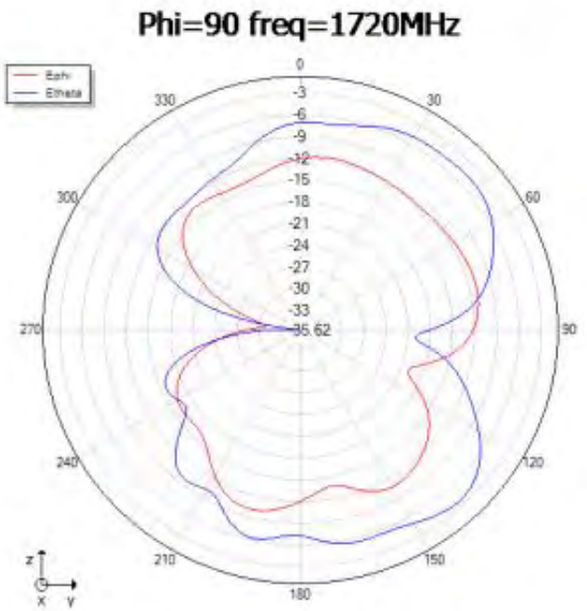


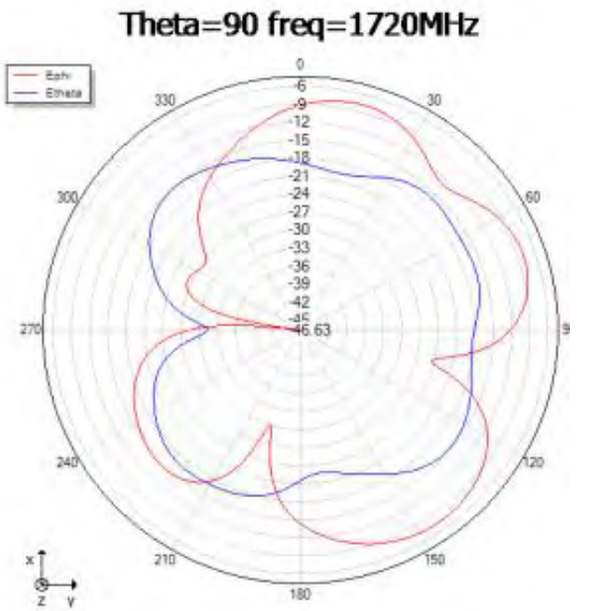
LTE B8 GSM900 W8Apple Diagram and Direction Chart

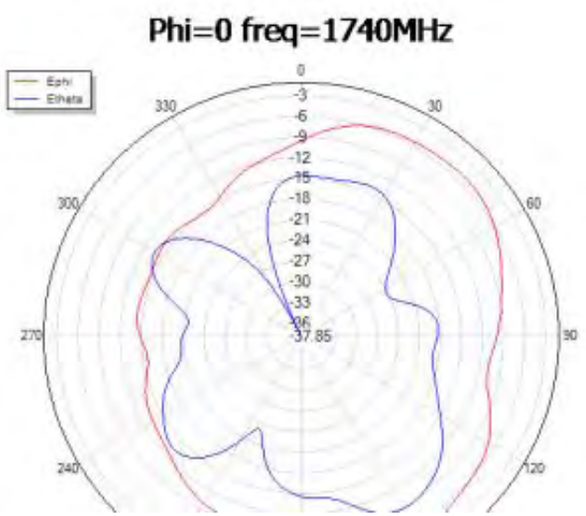


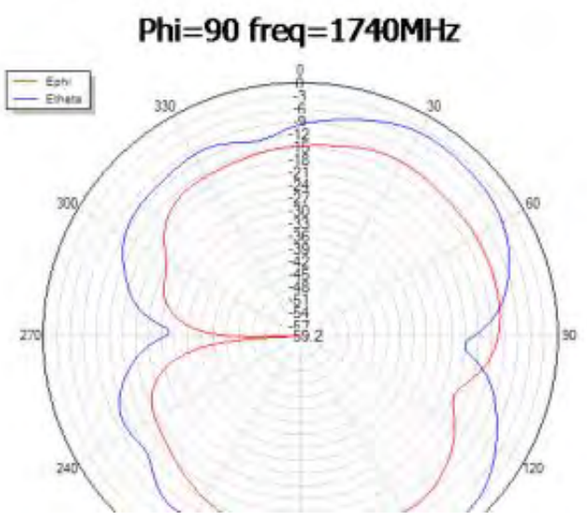
LTE B3/4/66 GSM1800 W4Apple Diagram and Direction Chart

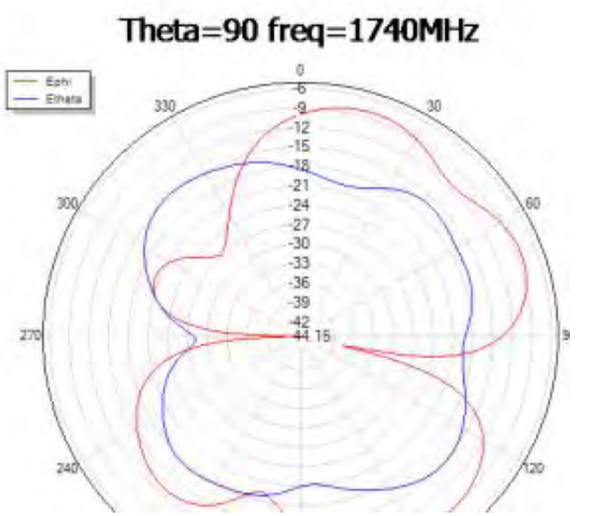




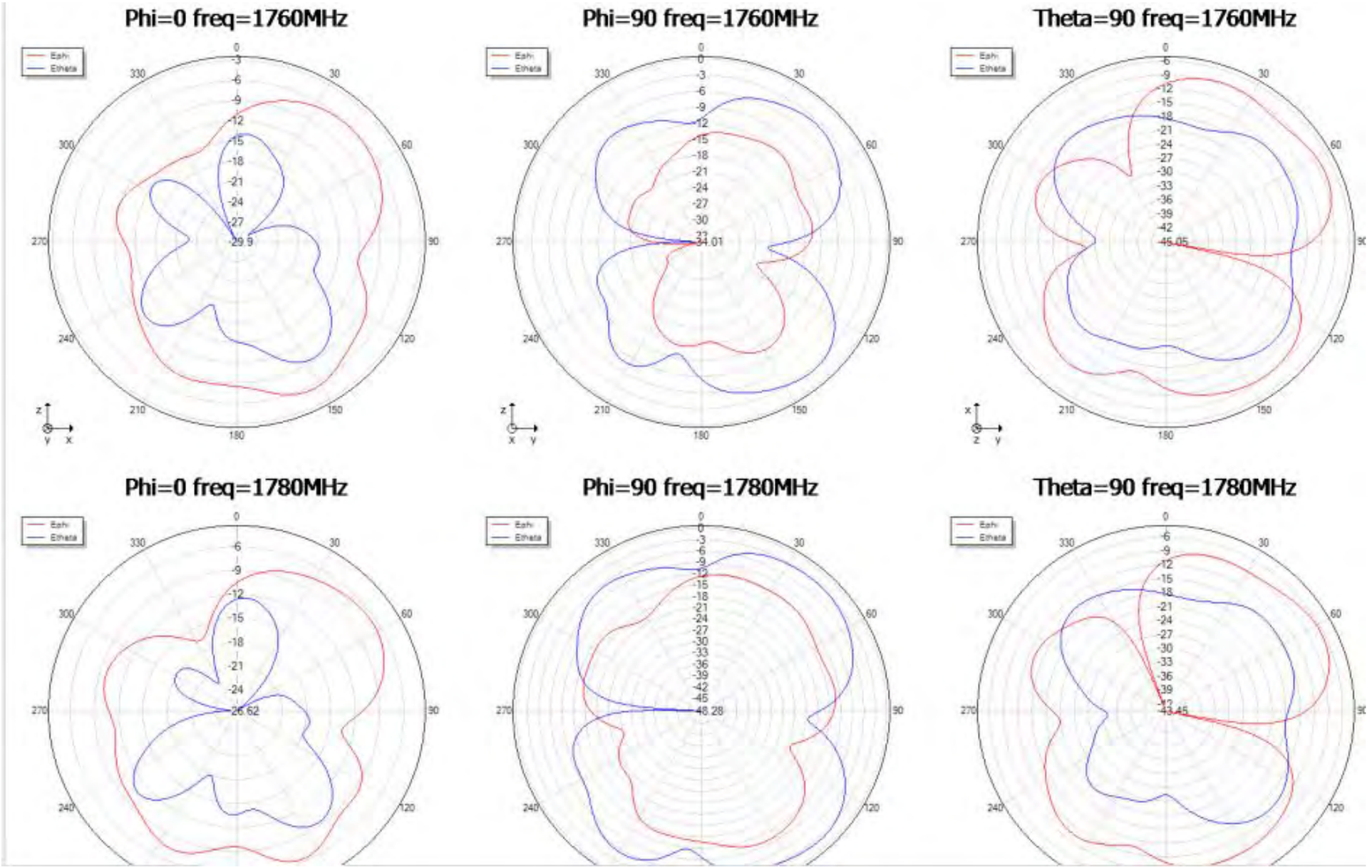




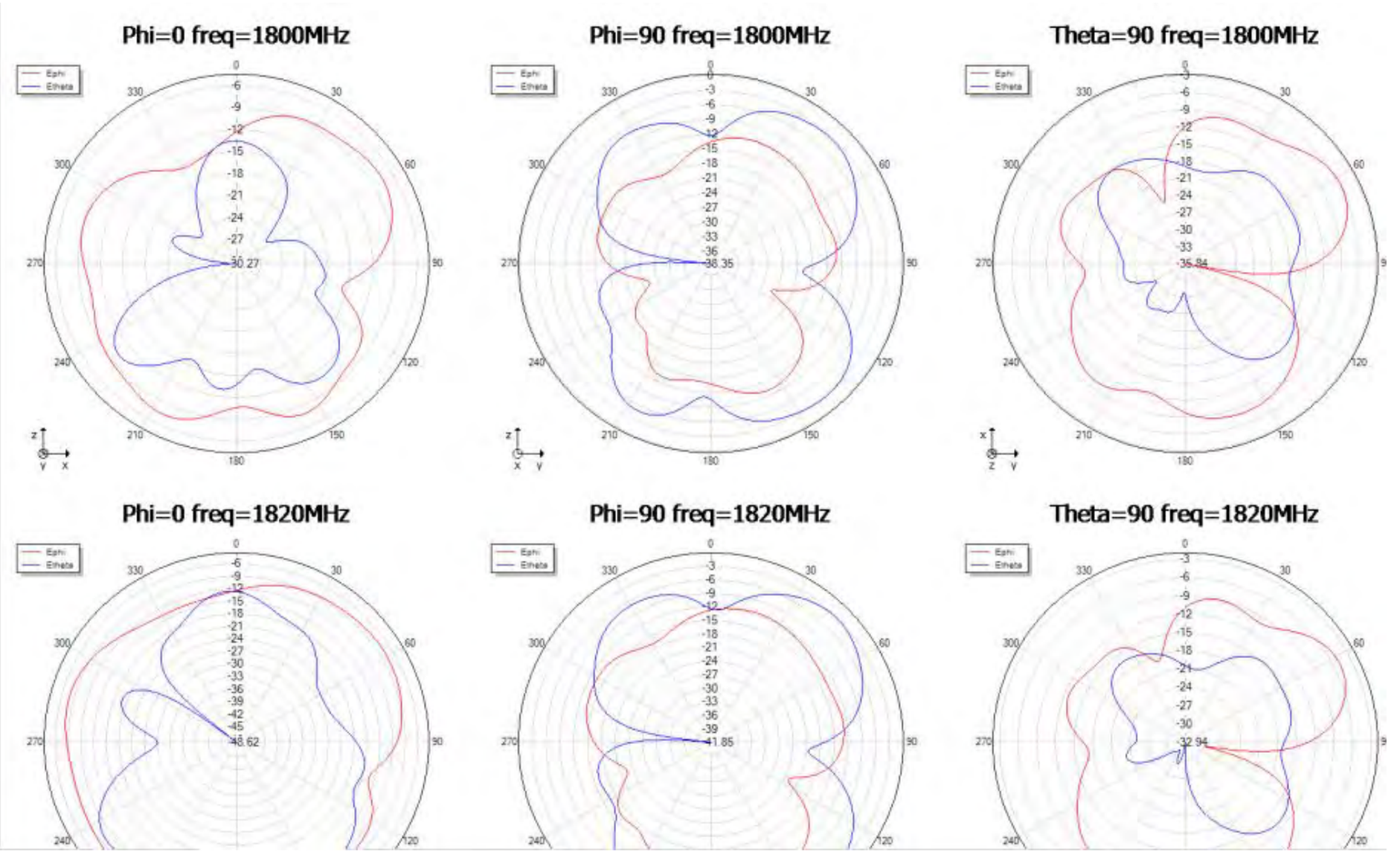




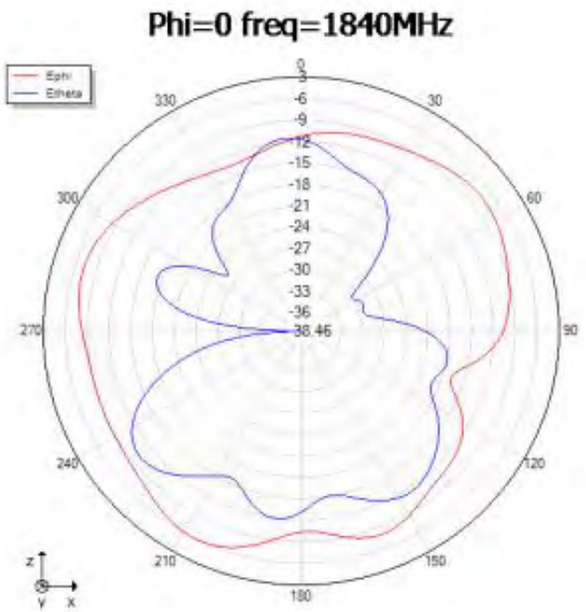
LTE B3/4/66 GSM1800 W4Apple Diagram and Direction Chart

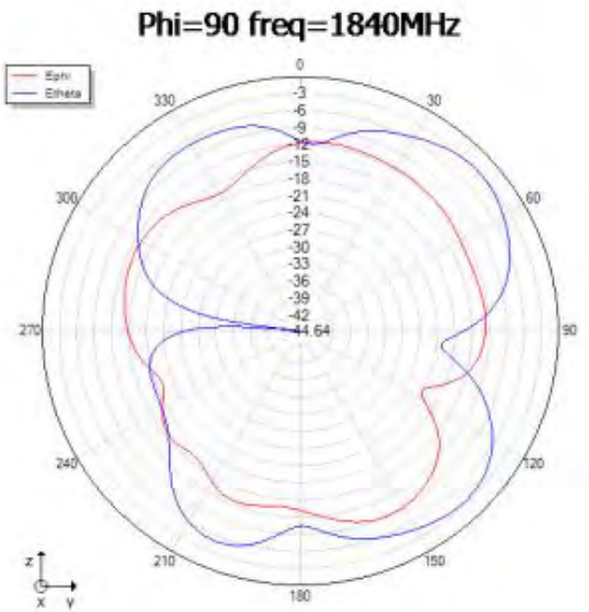


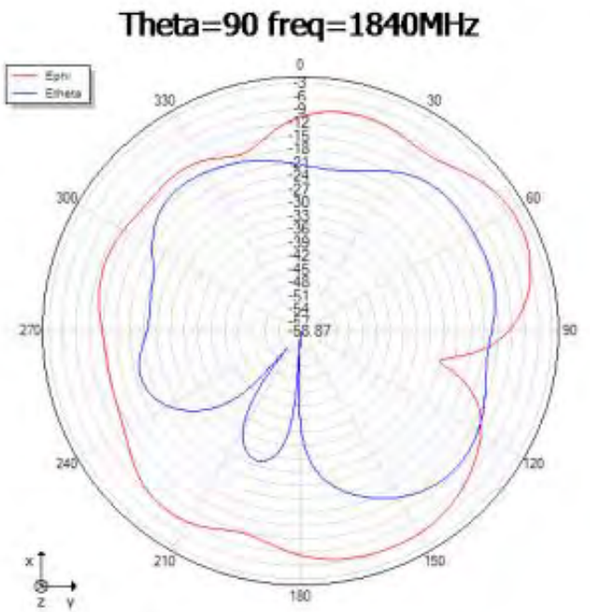
LTE B3/4/66 GSM1800 W4Apple Diagram and Direction Chart

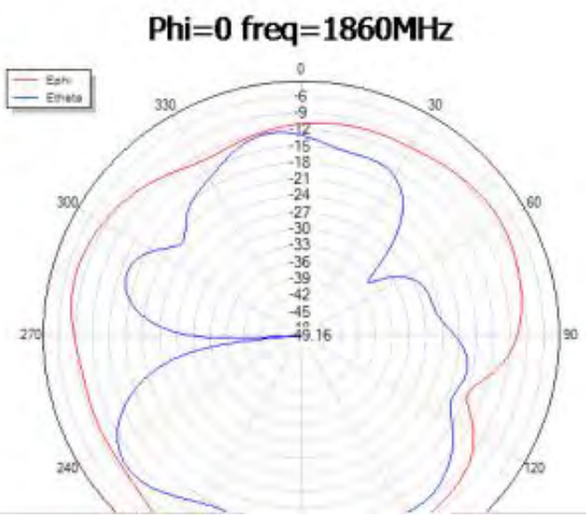


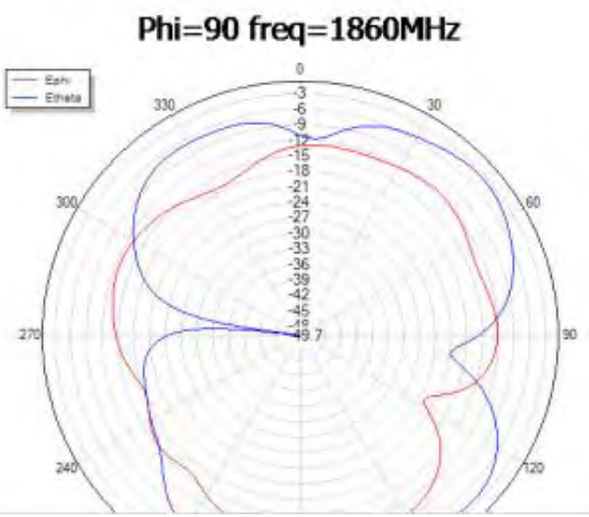
LTE B3/4/66 GSM1800 W4Apple Diagram and Direction Chart

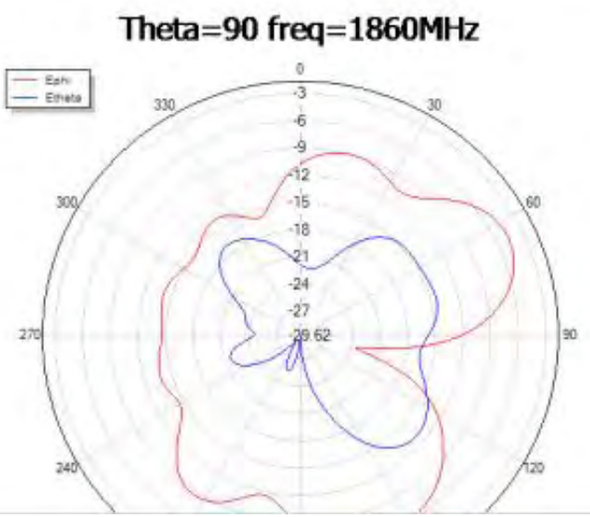




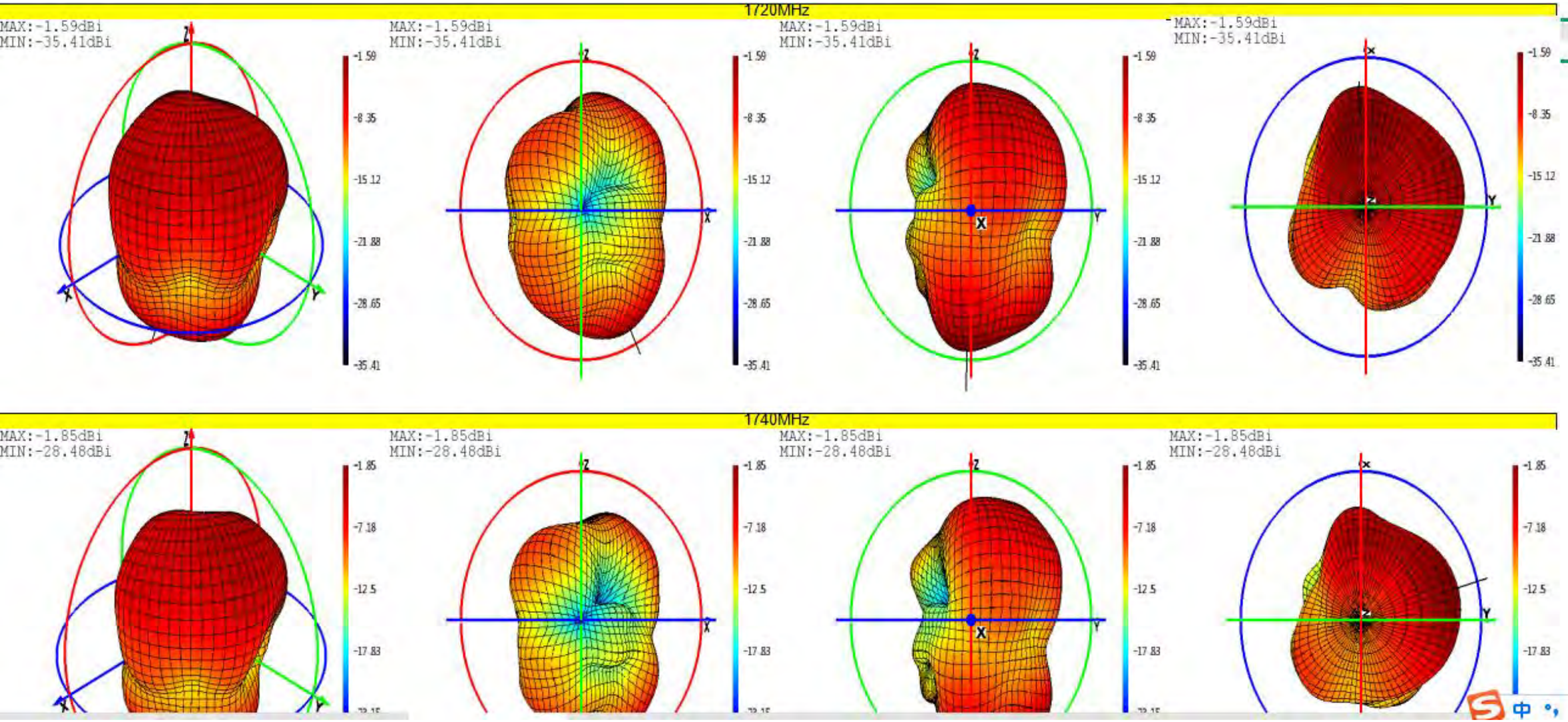






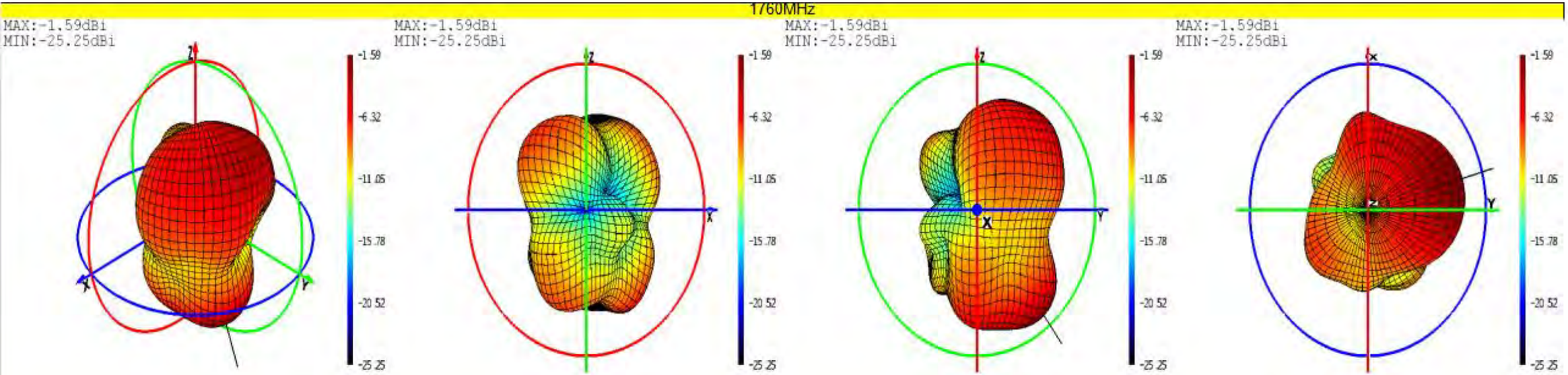


LTE B3/4/66 GSM1800 W4Apple Diagram and Direction Chart

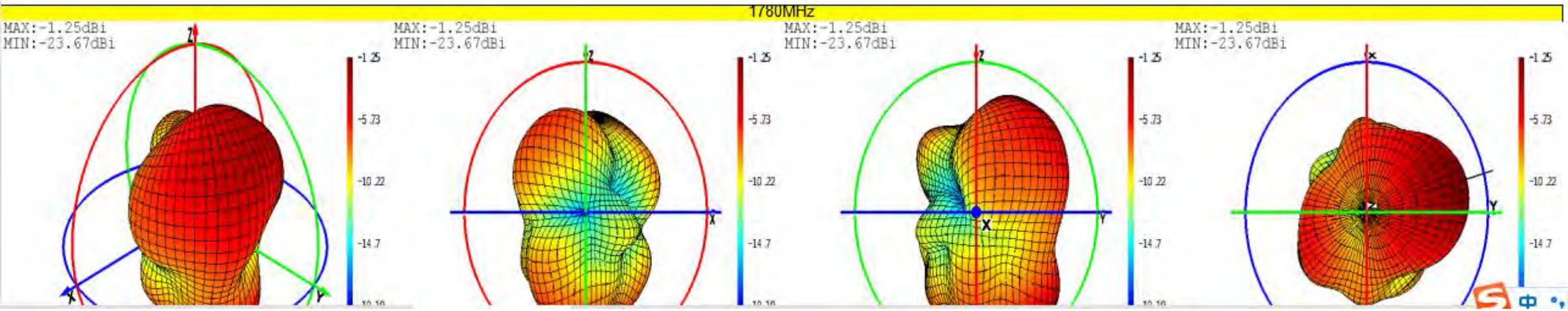


LTE B3/4/66 GSM1800 W4Apple Diagram and Direction Chart

1760MHz

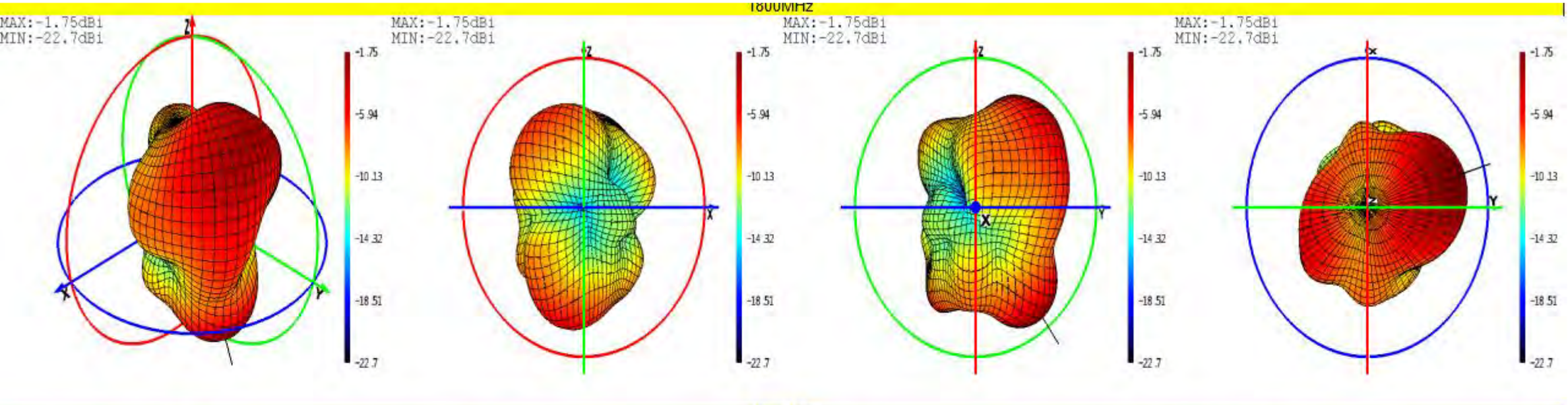


1780MHz

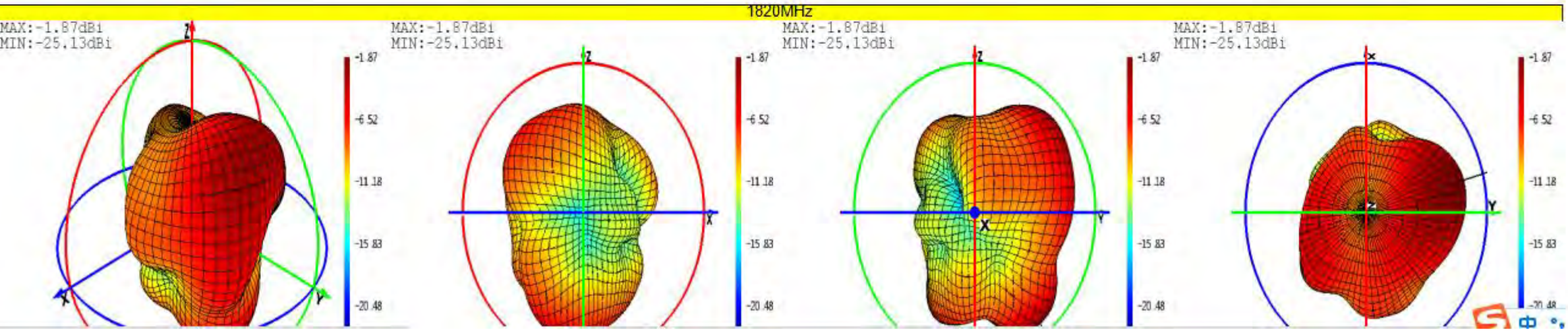


LTE B3/4/66 GSM1800 W4Apple Diagram and Direction Chart

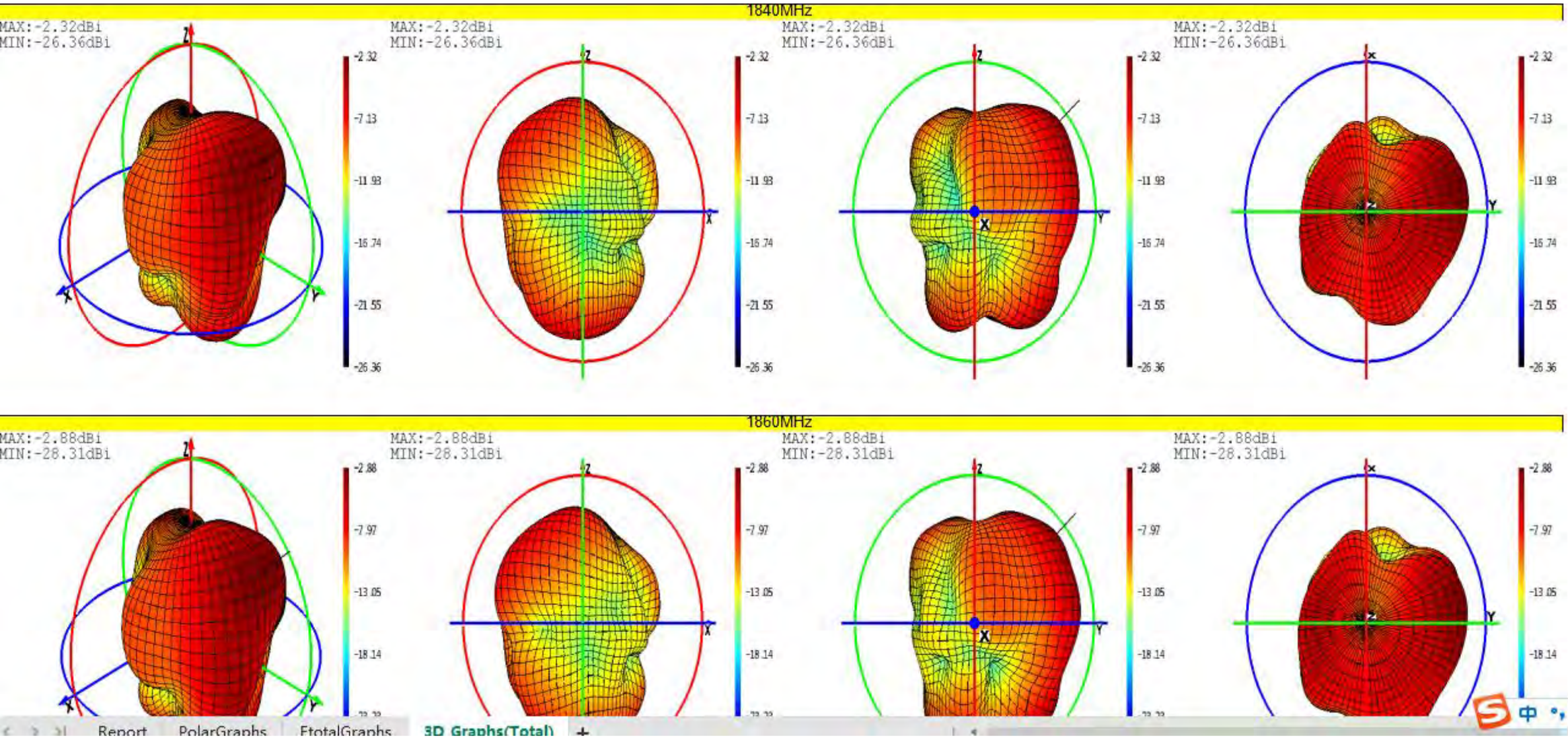
1800MHz



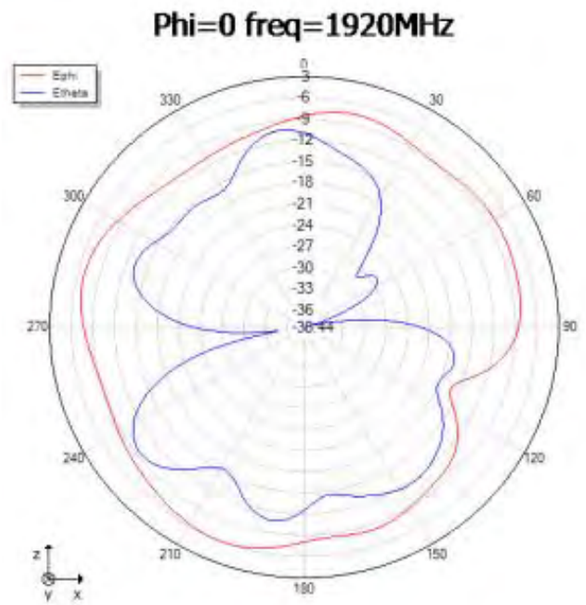
1820MHz

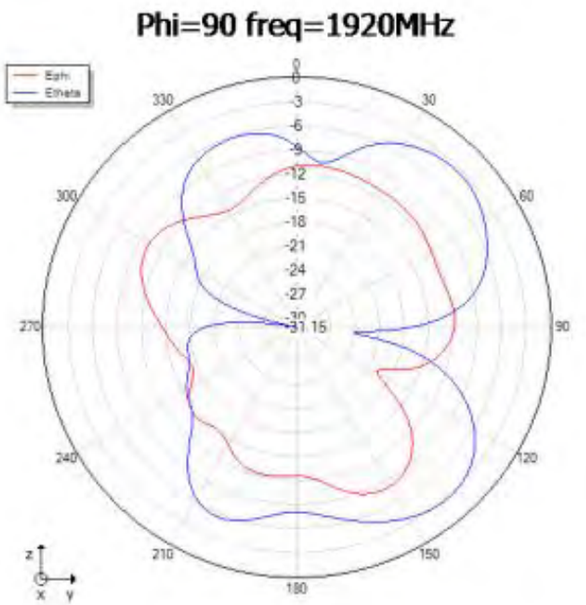


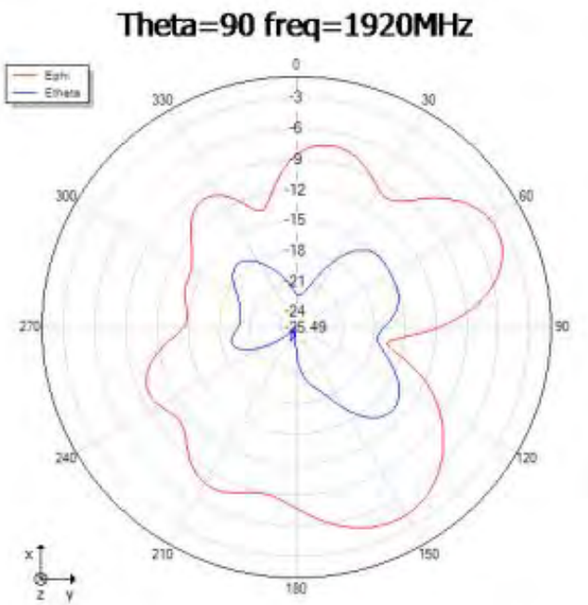
LTE B3/4/66 GSM1800 W4Apple Diagram and Direction Chart

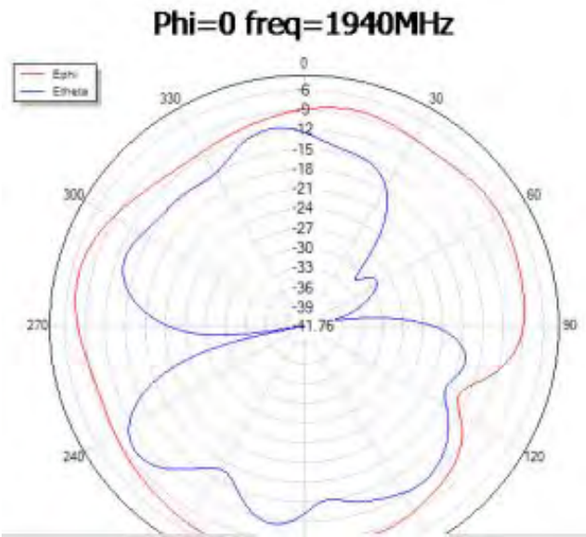


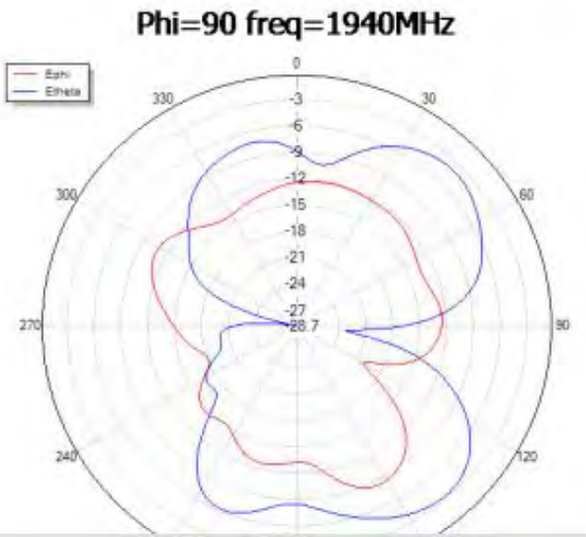
LTE B1/2 GSM1900 W1/2Apple Diagram and Direction Chart

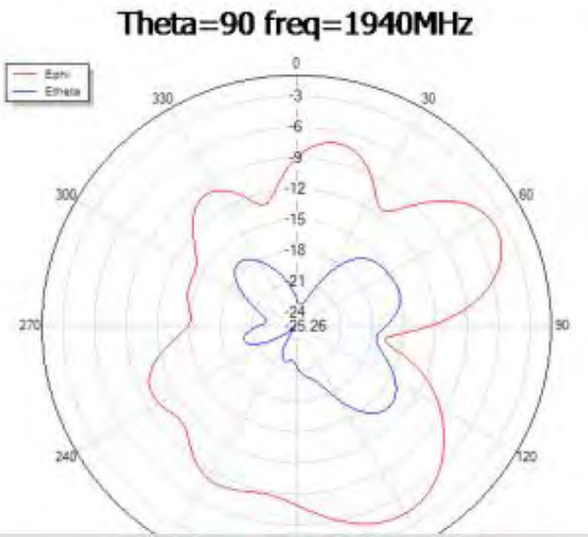












LTE B1/2 GSM1900 W1/2Apple Diagram and Direction Chart

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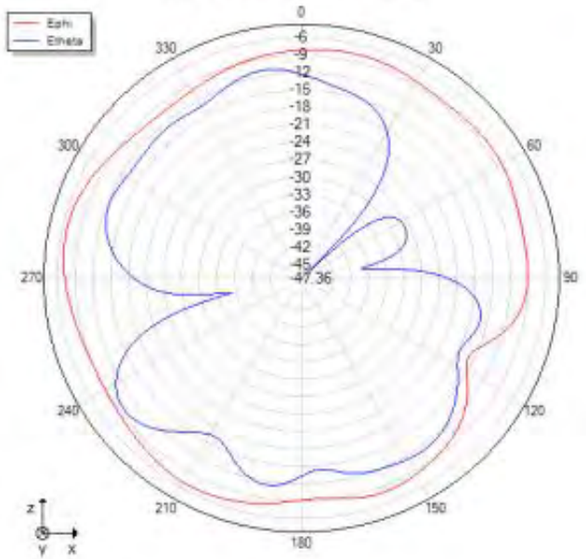

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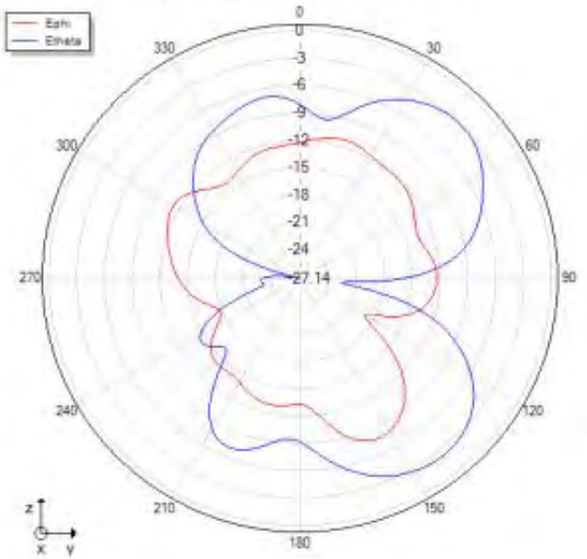

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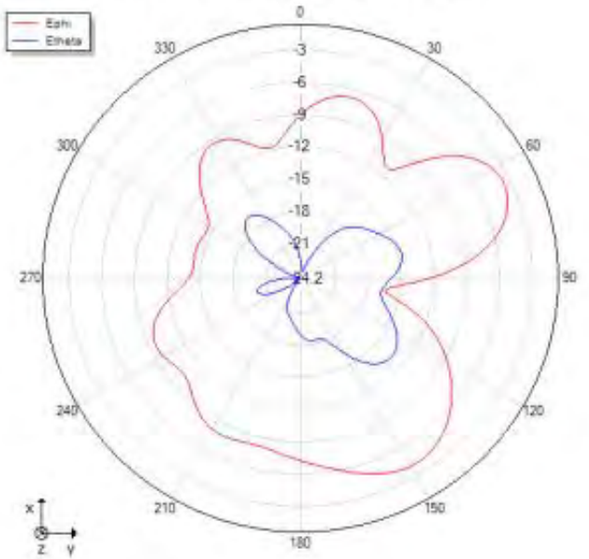
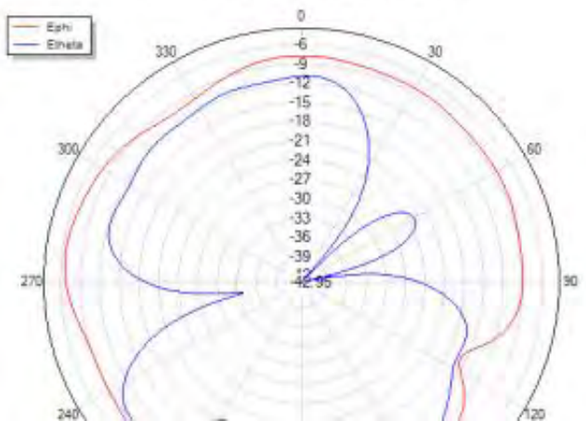
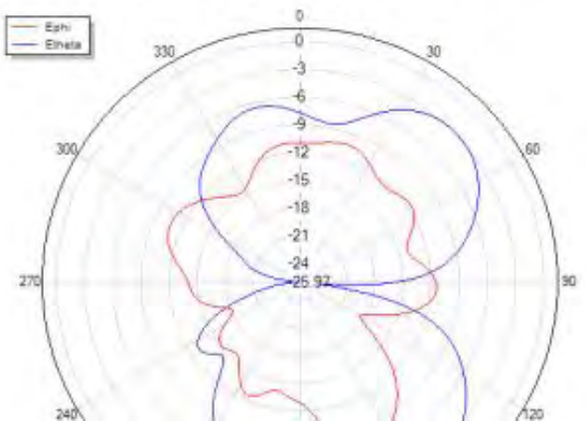


Phi=0 freq=1980MHz



Phi=90 freq=1980MHz



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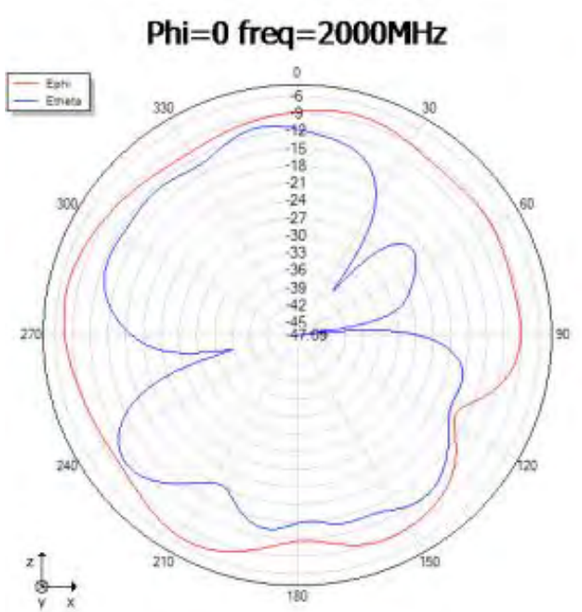
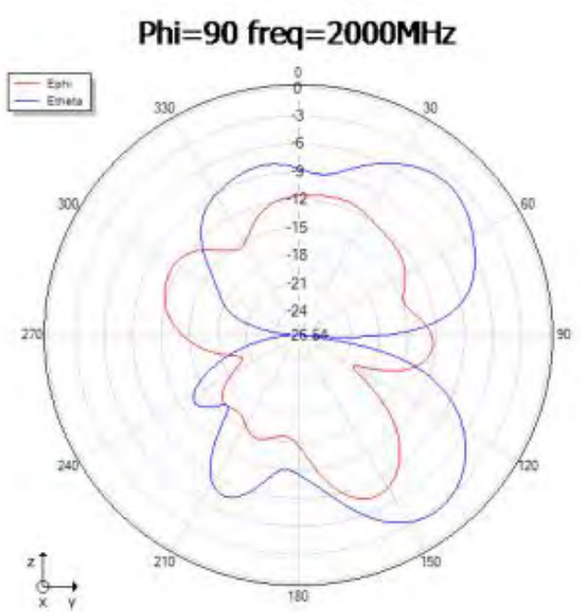
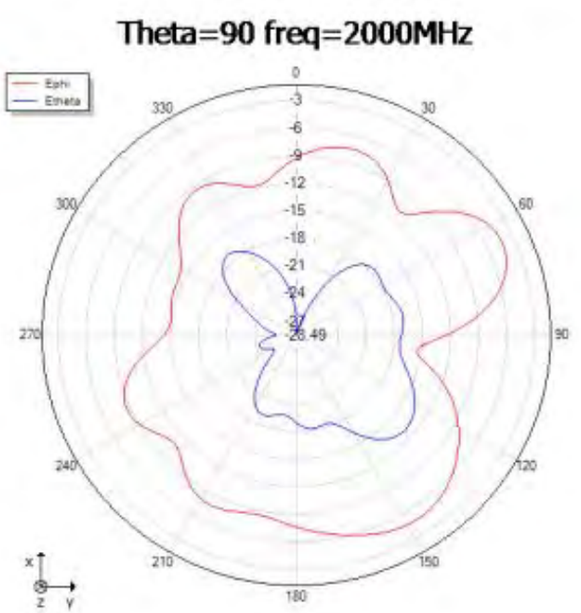
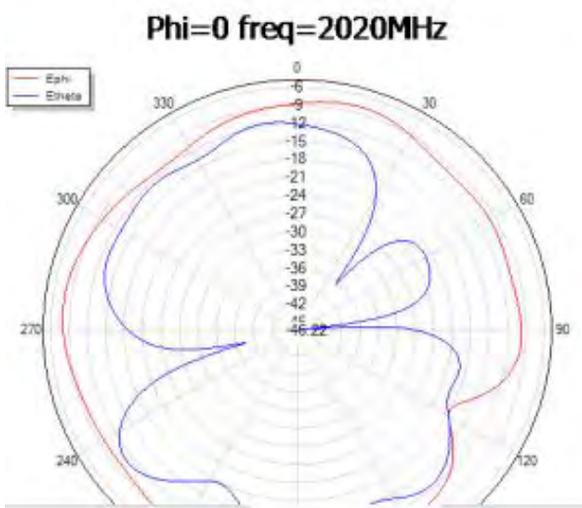
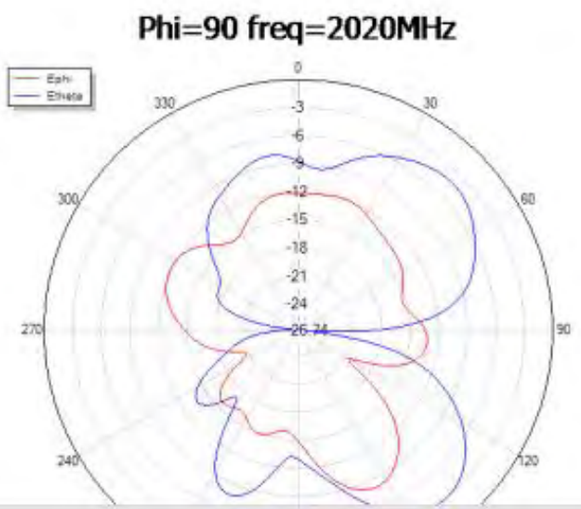
LTE B1/2 GSM1900 W1/2Apple Diagram and Direction Chart

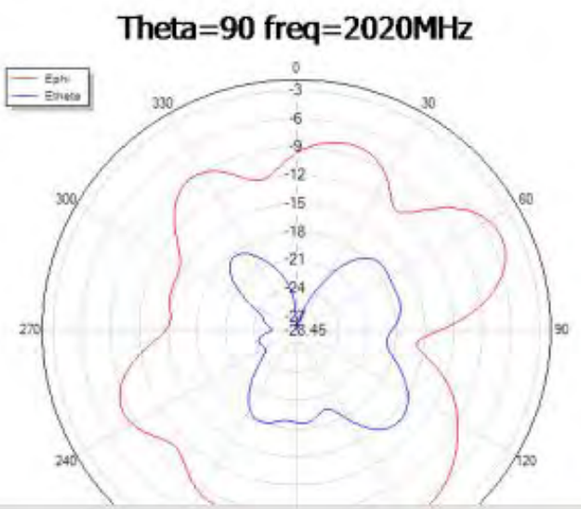




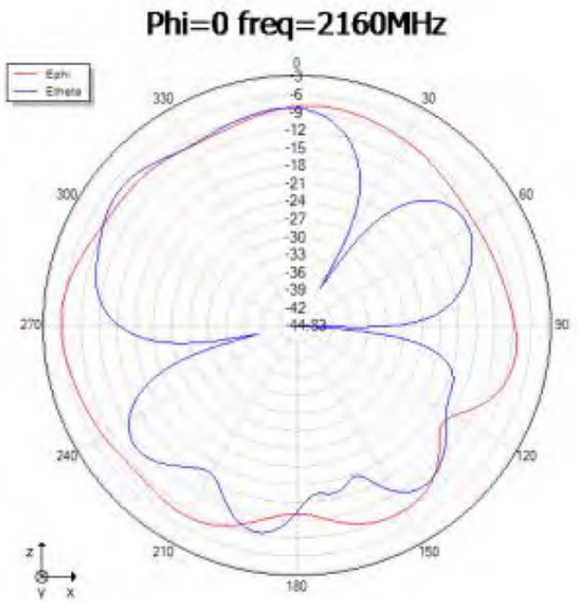


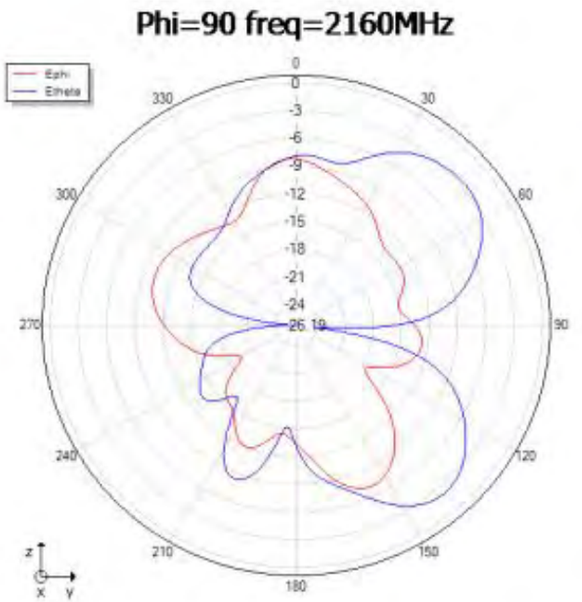


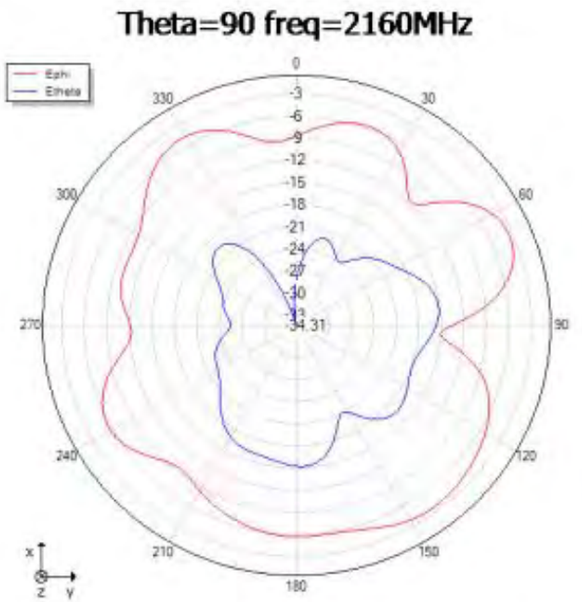


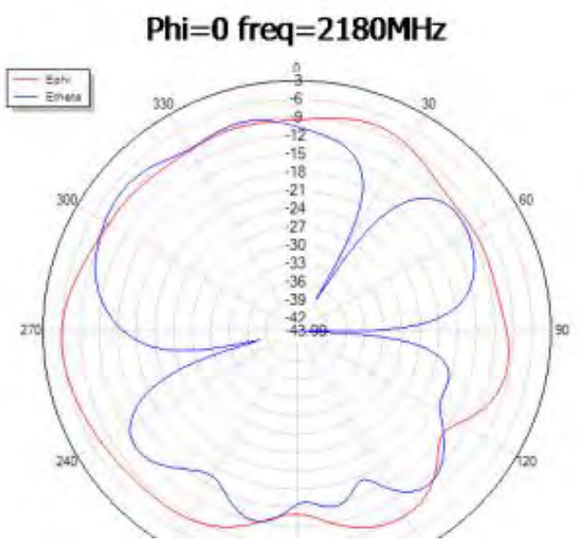


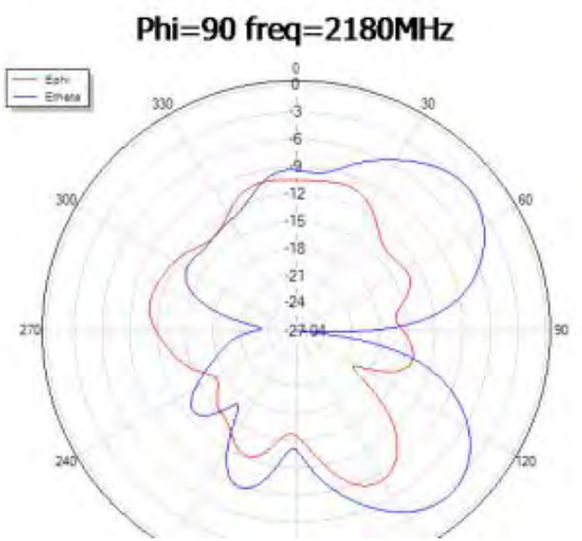
LTE B1/2 GSM1900 W1/2Apple Diagram and Direction Chart

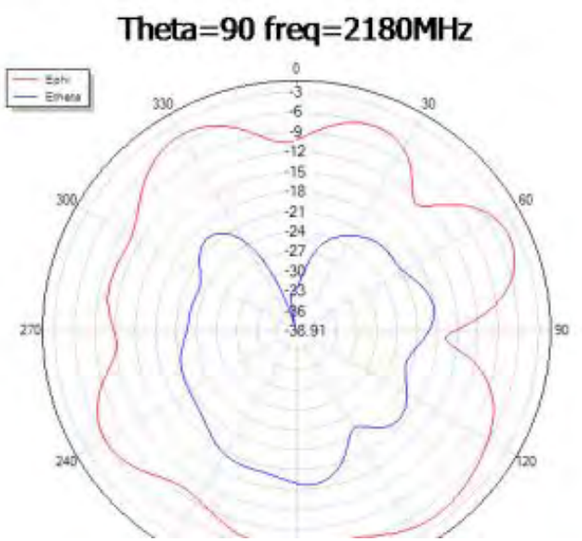




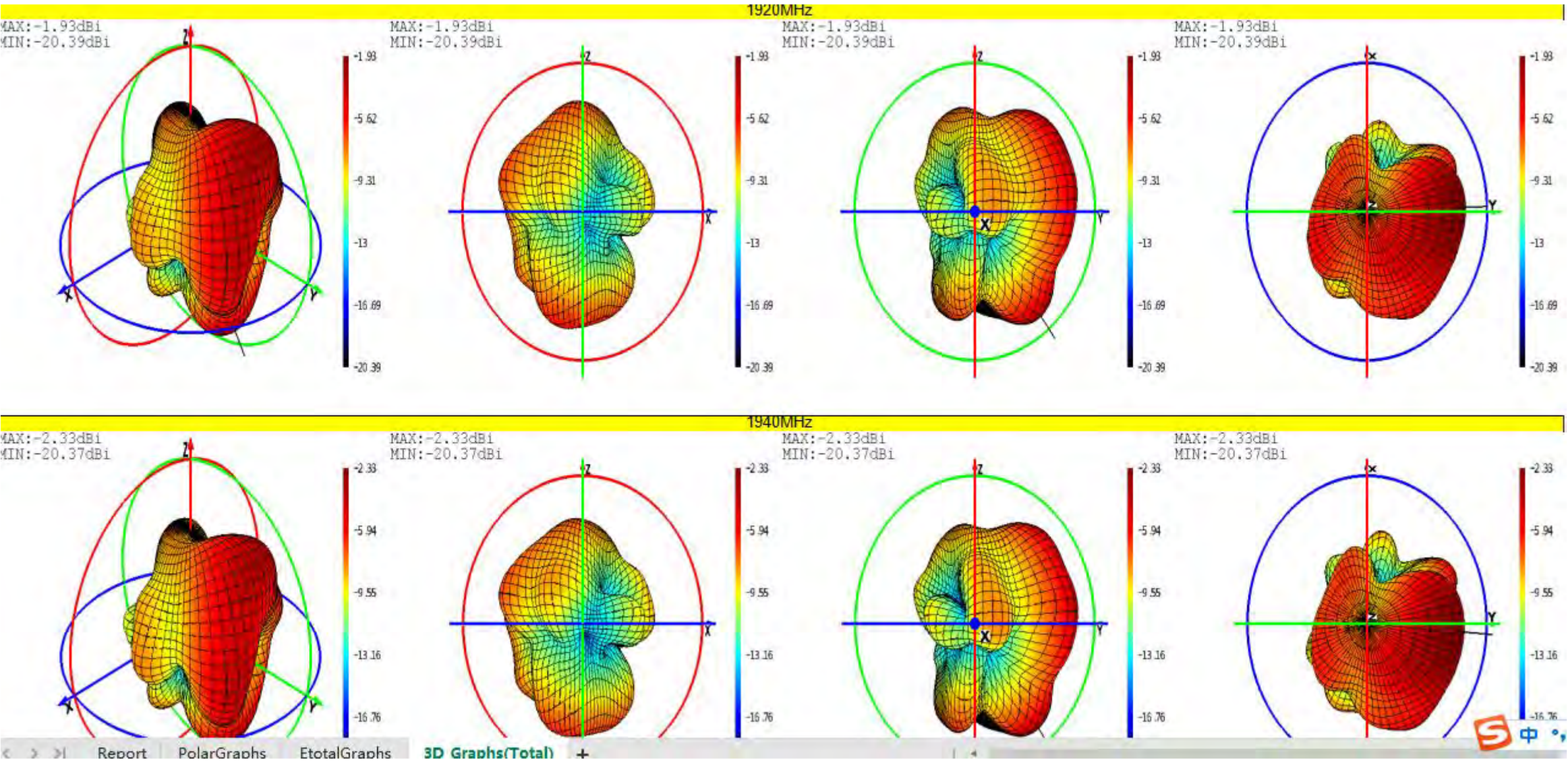




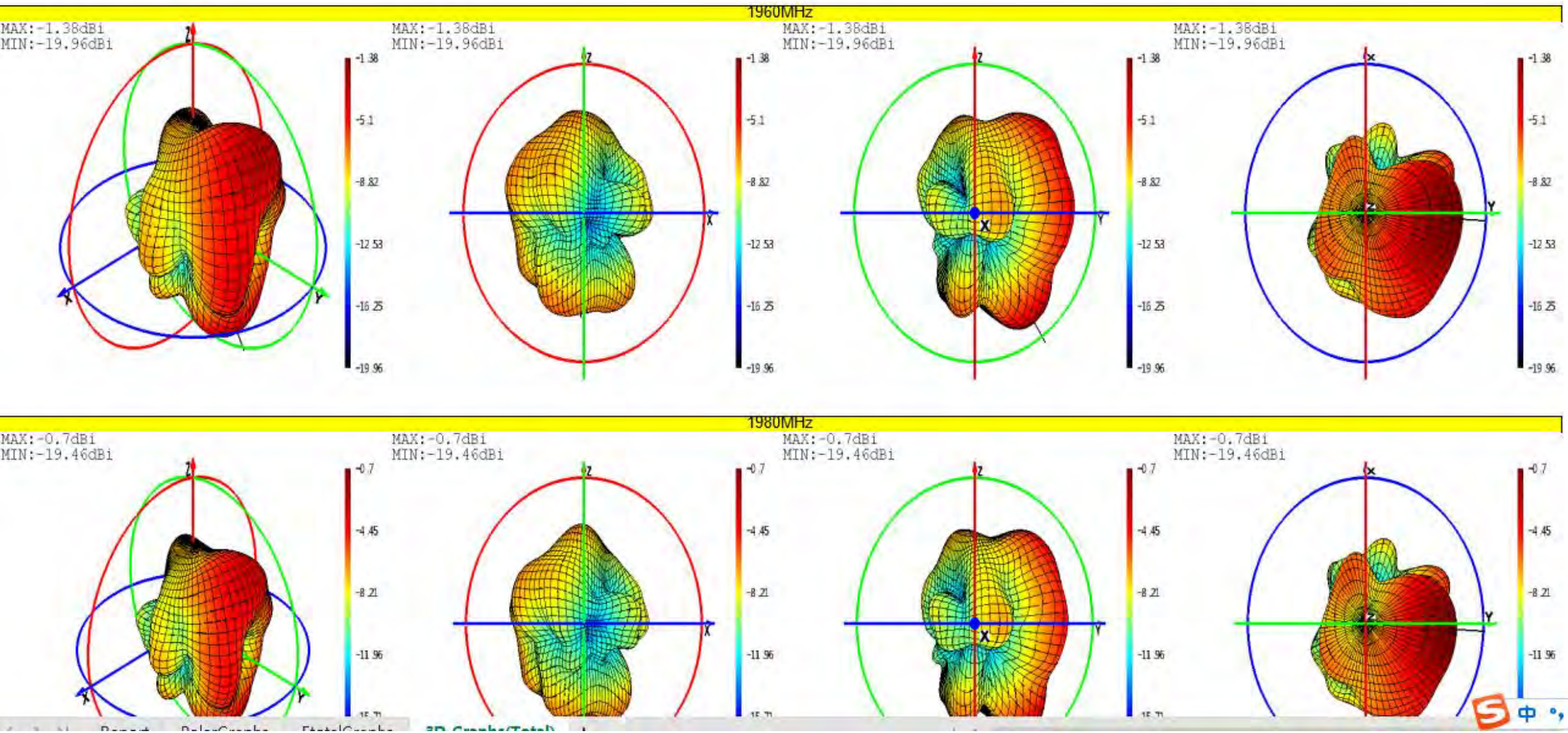




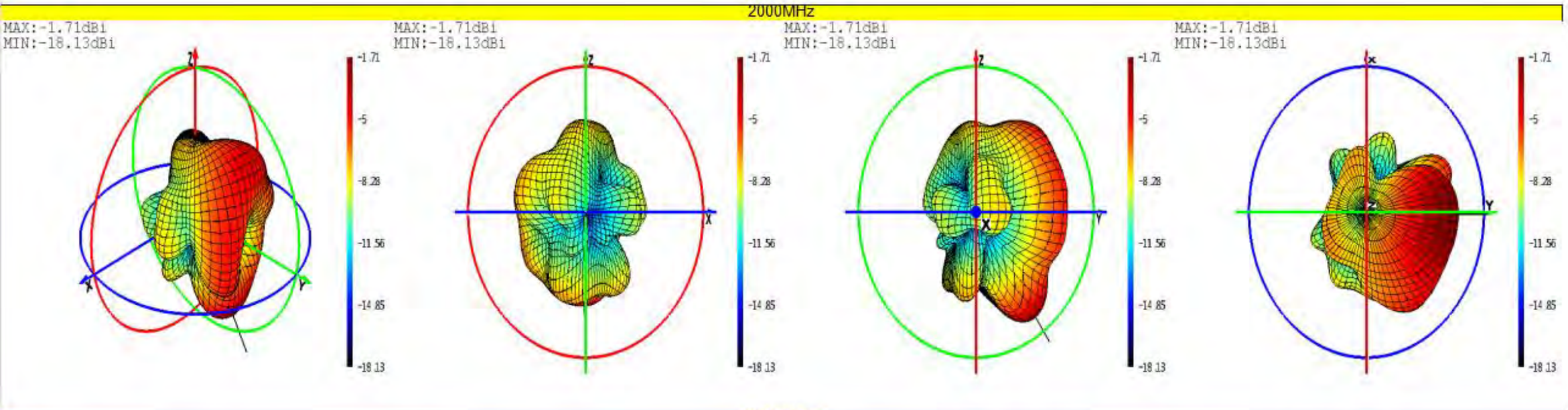
LTE B1/2 GSM1900 W1/2Apple Diagram and Direction Chart



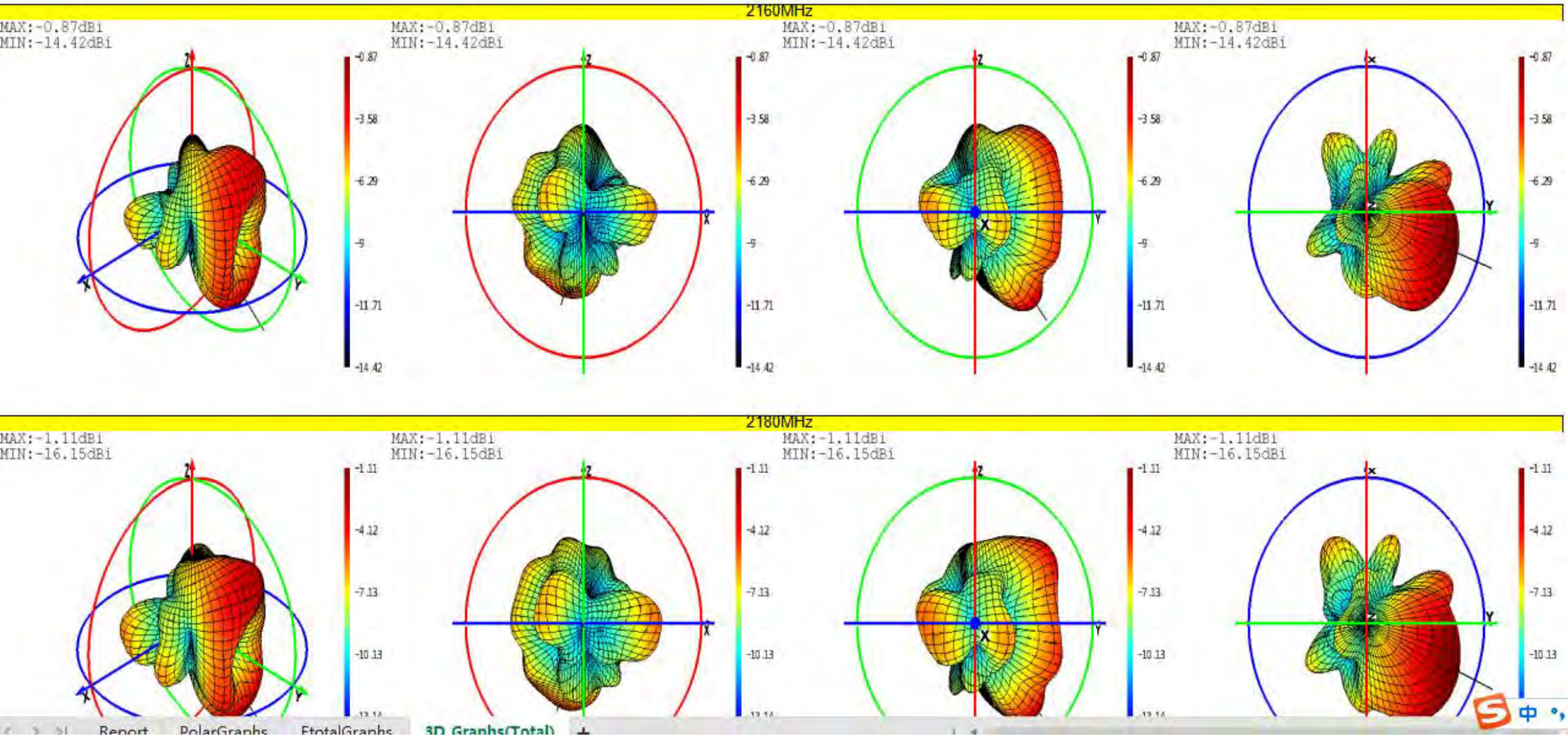
LTE B1/2 GSM1900 W1/2Apple Diagram and Direction Chart



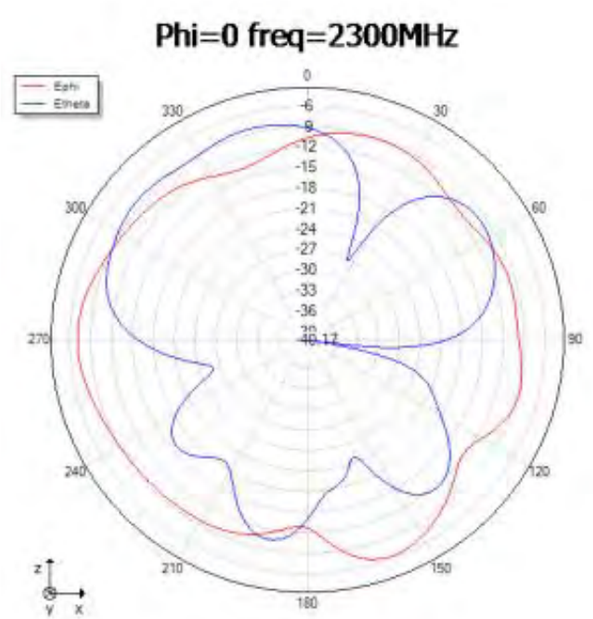
LTE B1/2 GSM1900 W1/2Apple Diagram and Direction Chart

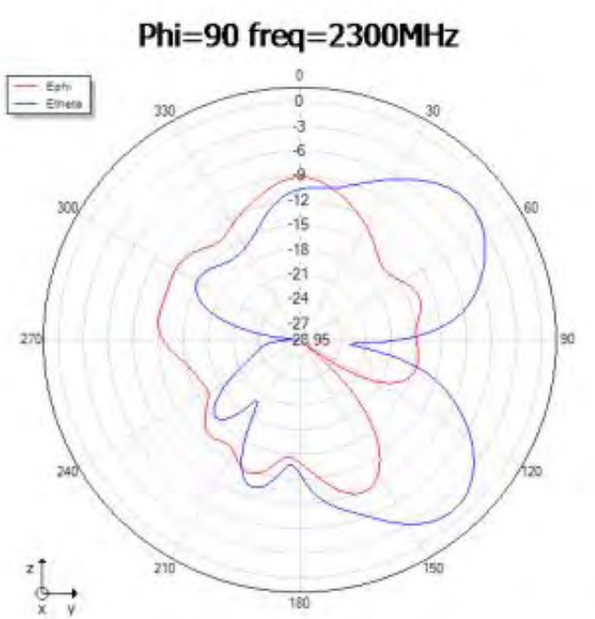


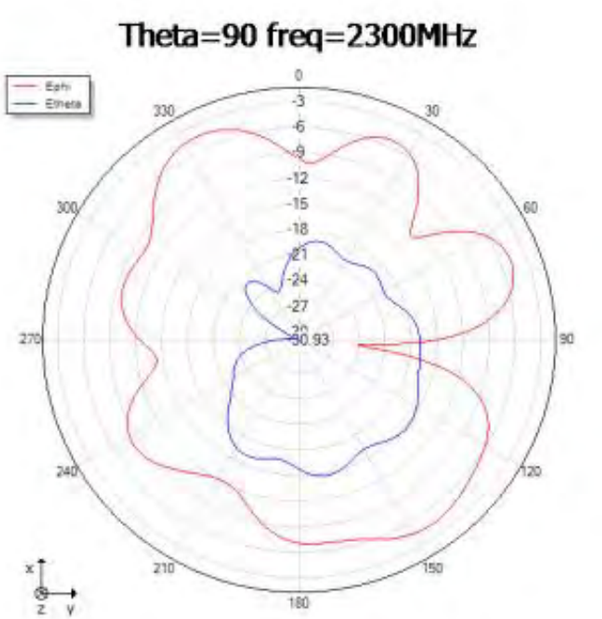
LTE B1/2 GSM1900 W1/2Apple Diagram and Direction Chart

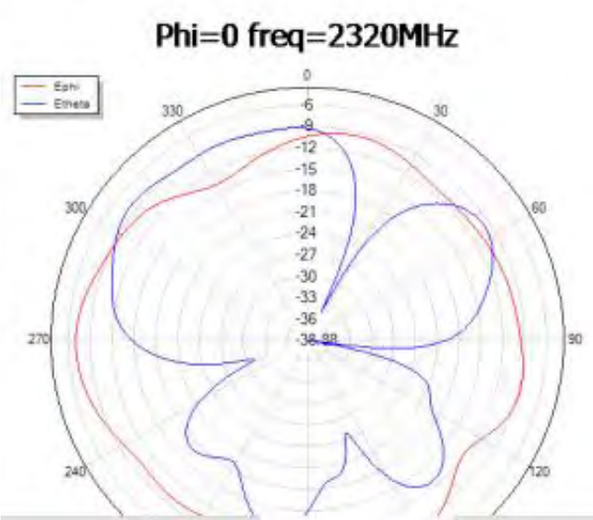


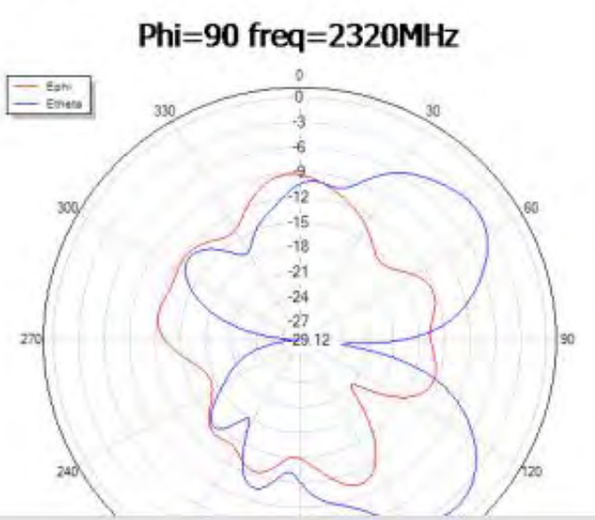
LTE B40Apple Diagram and Direction Chart

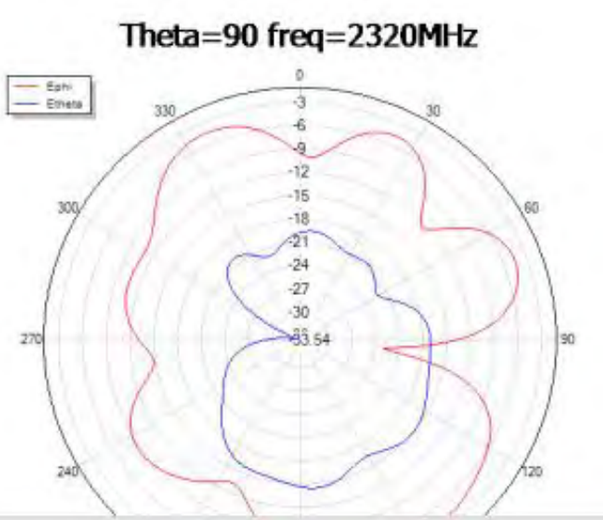












LTE B40Apple Diagram and Direction Chart

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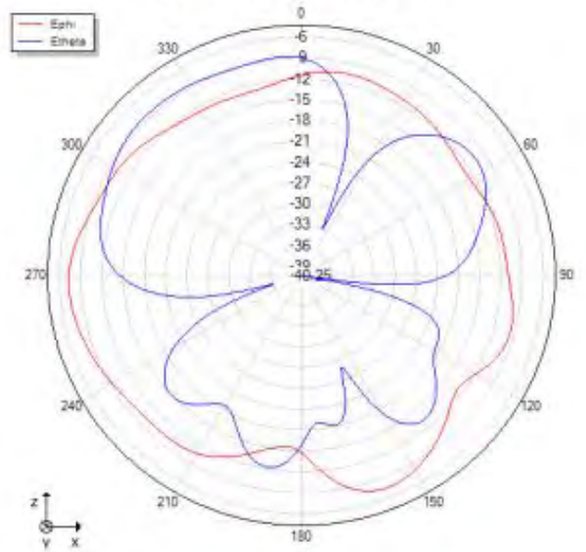

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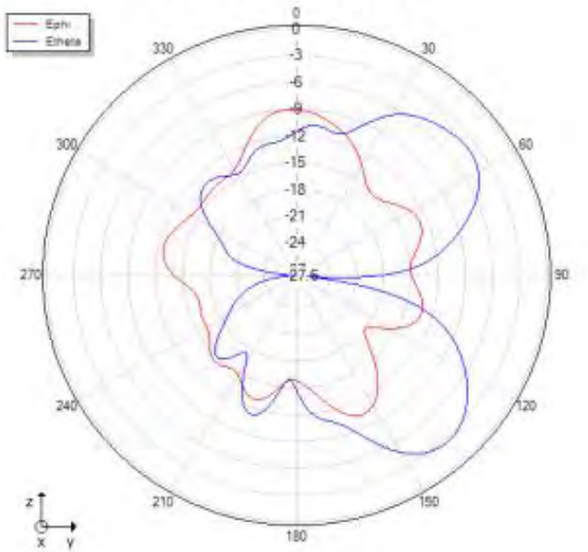

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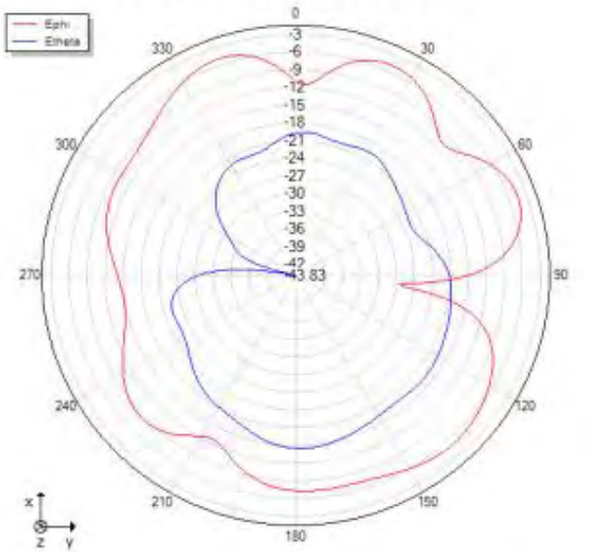

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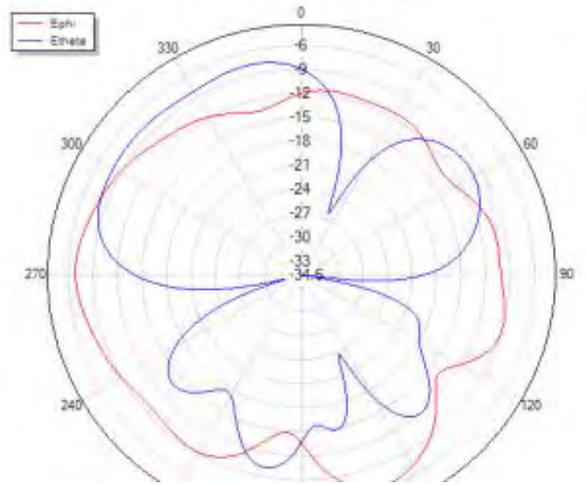

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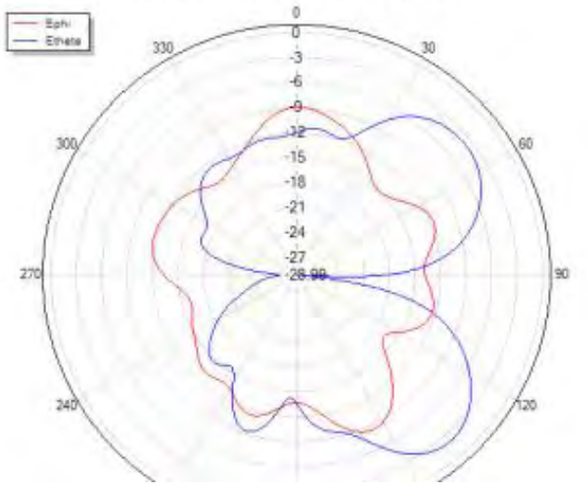

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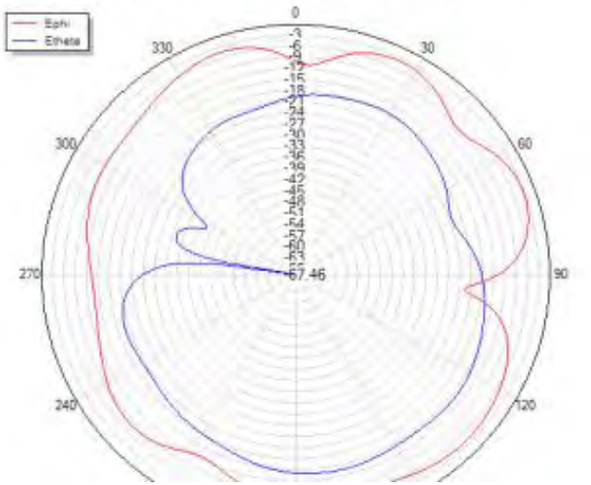
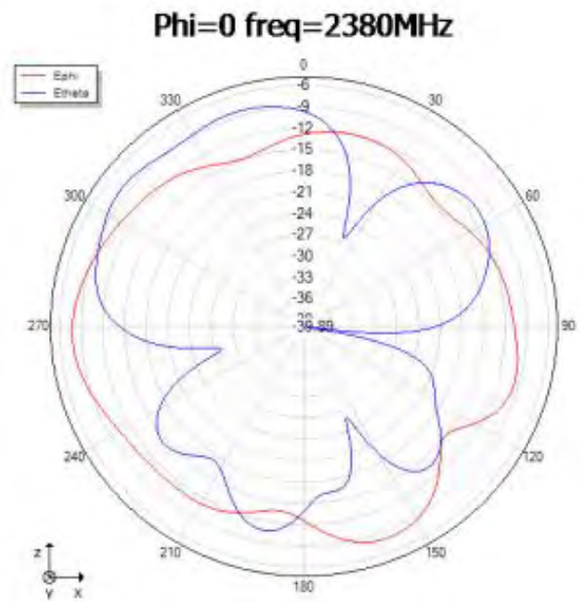
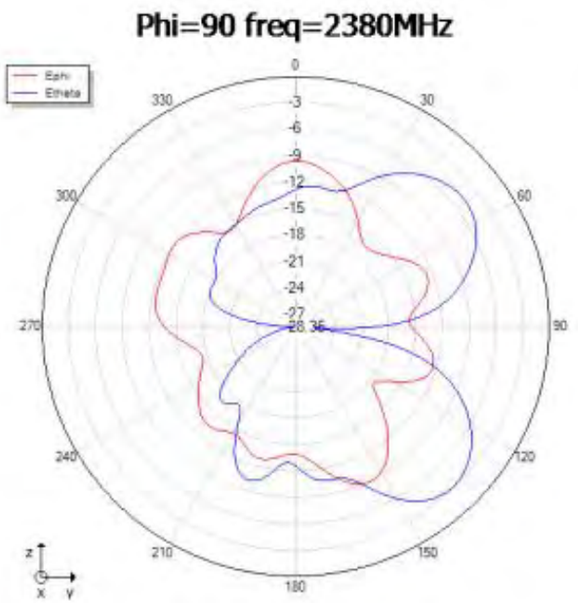
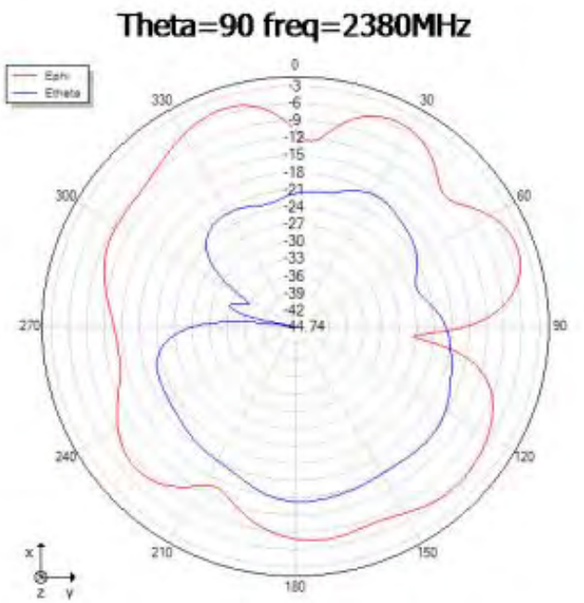
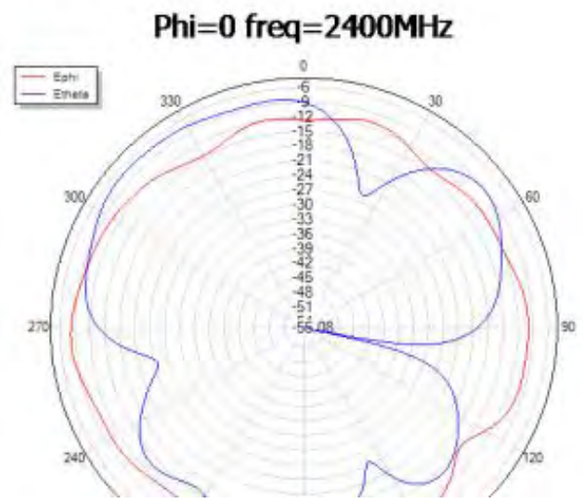


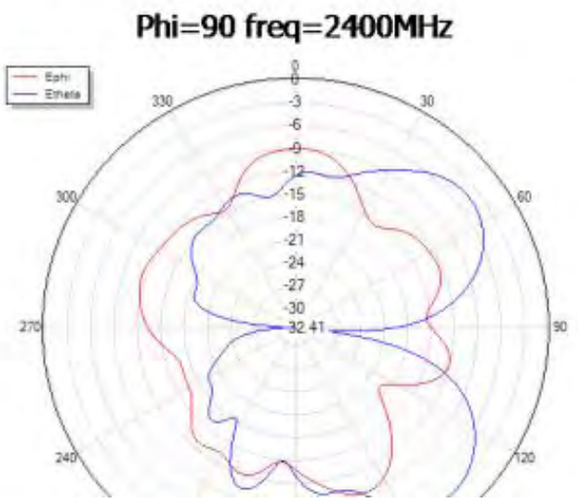
LTE B40Apple Diagram and Direction Chart

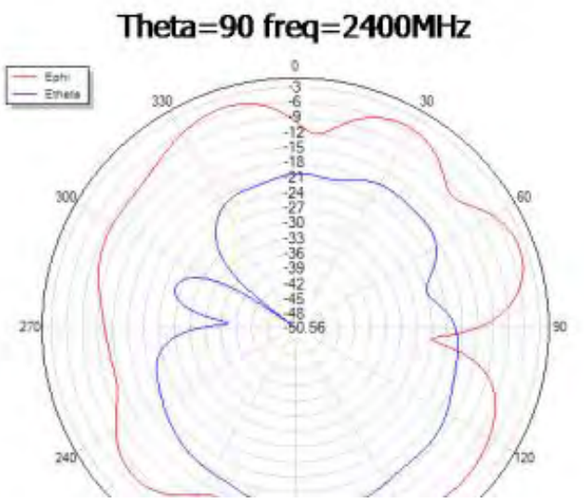




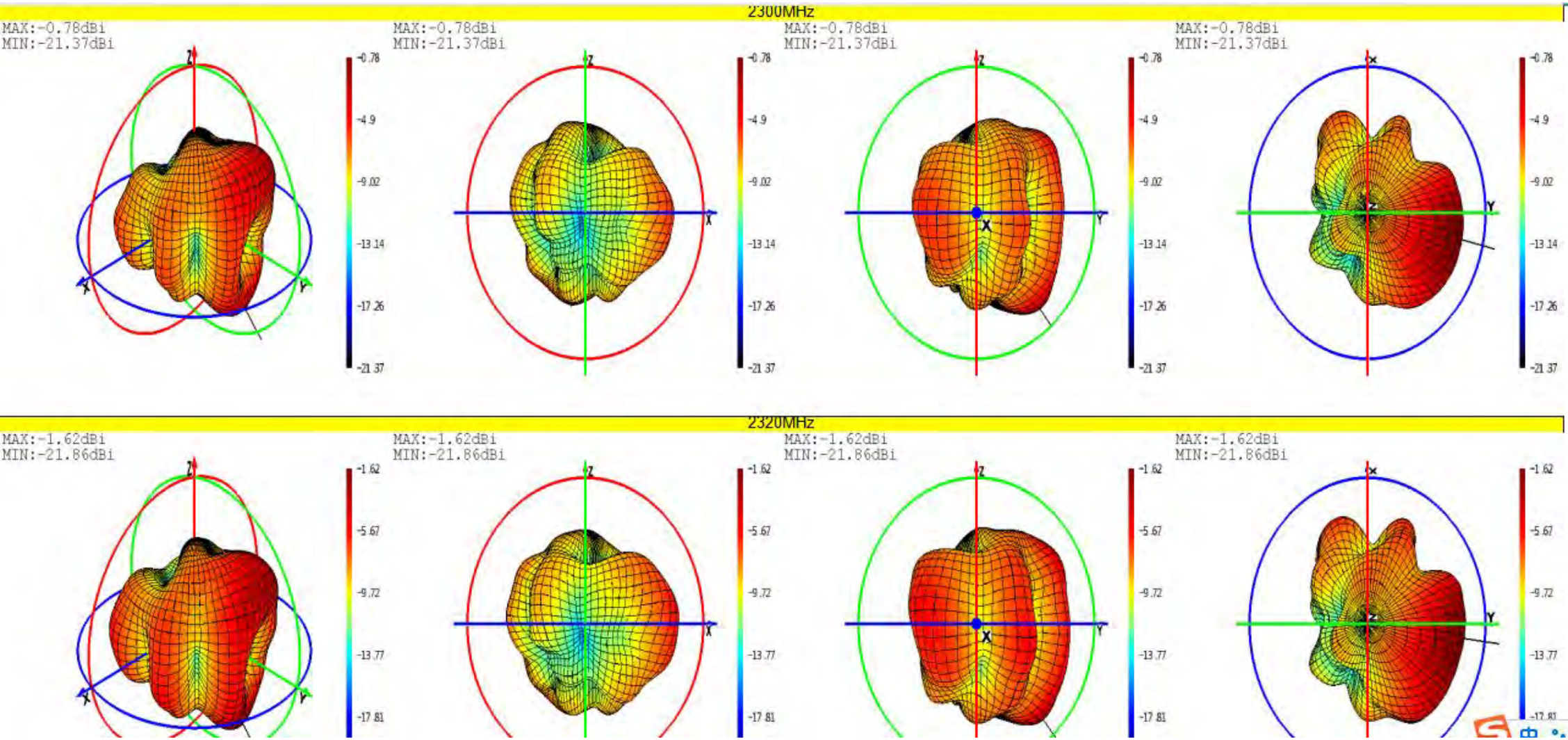




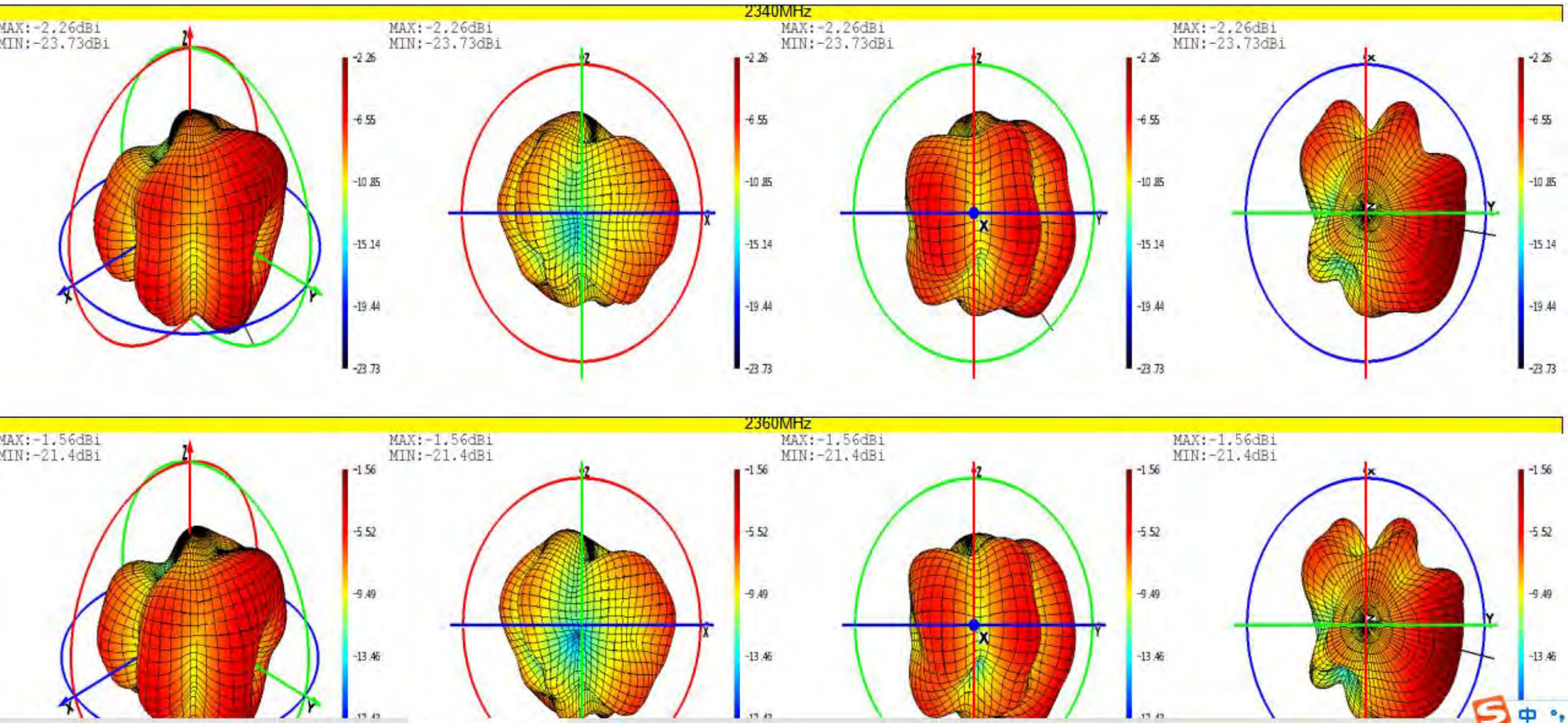




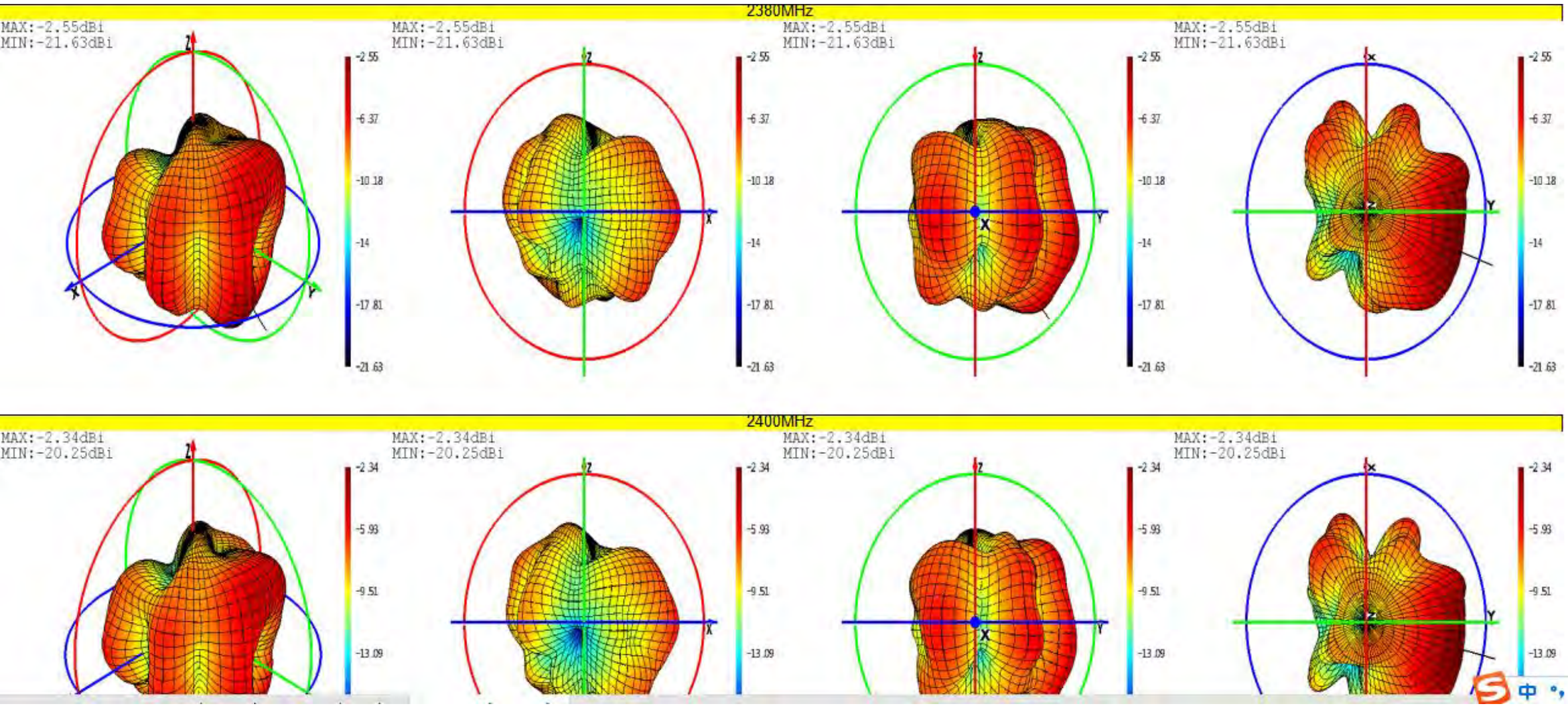
LTE B40Apple Diagram and Direction Chart



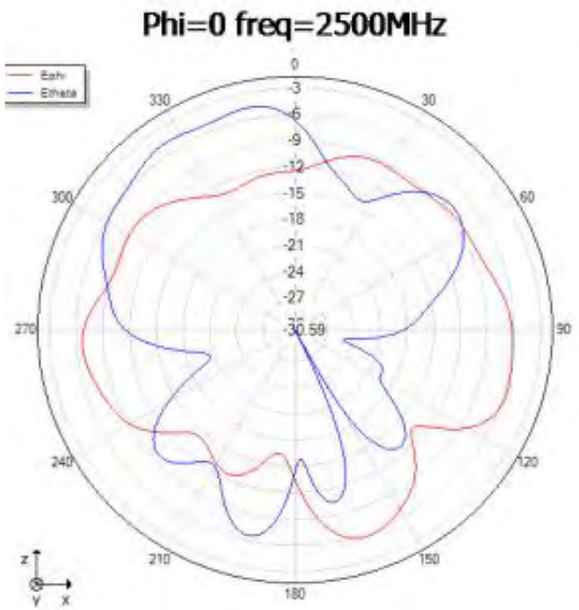
LTE B40Apple Diagram and Direction Chart

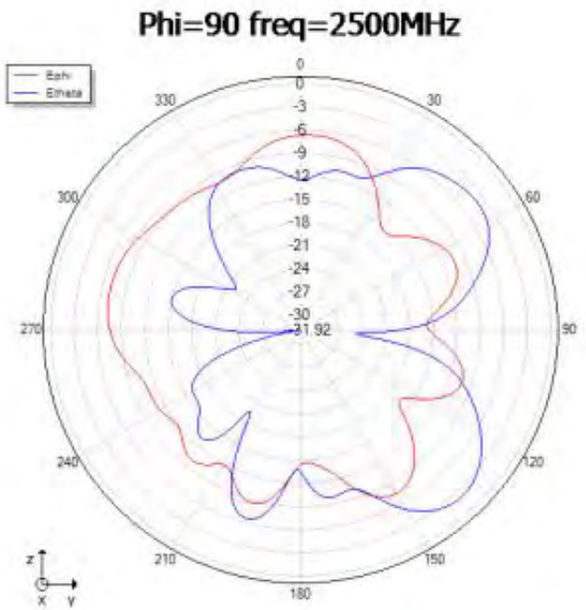


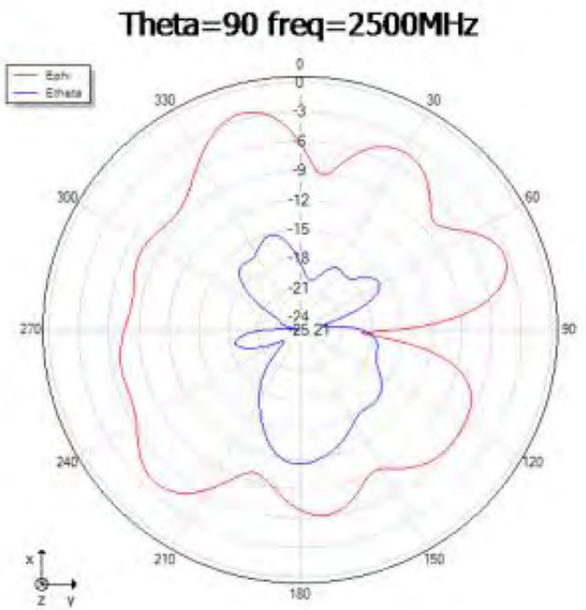
LTE B40Apple Diagram and Direction Chart

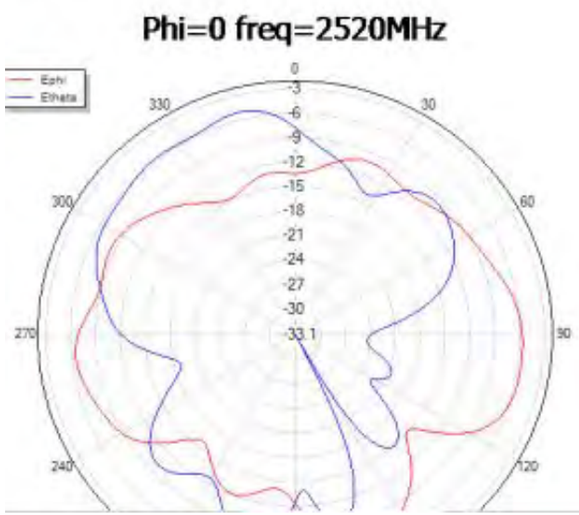


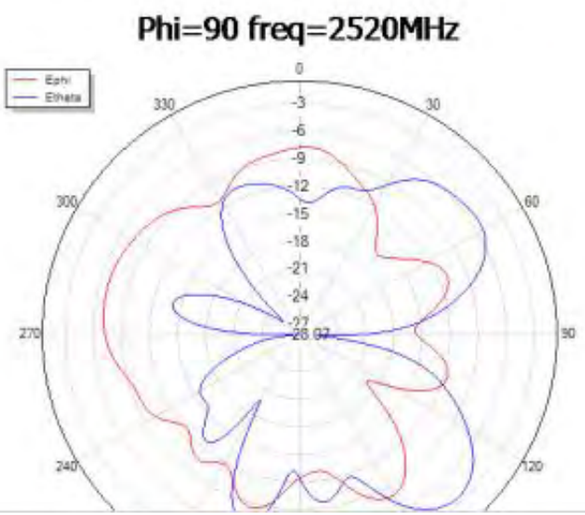
LTE B7/38/41Apple Diagram and Direction Chart

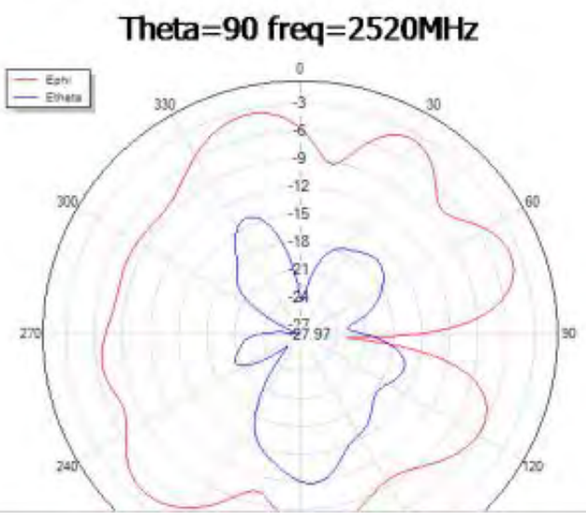




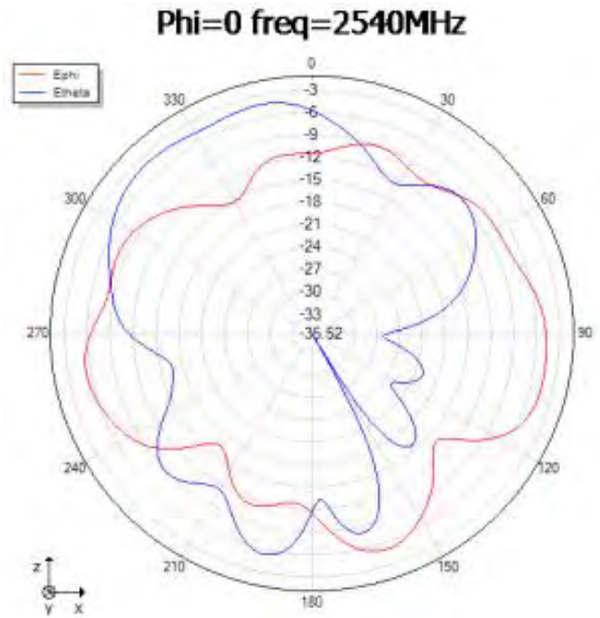


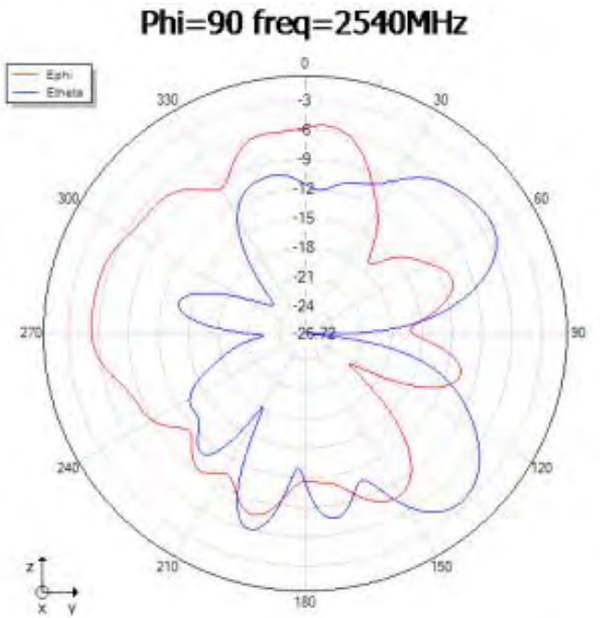


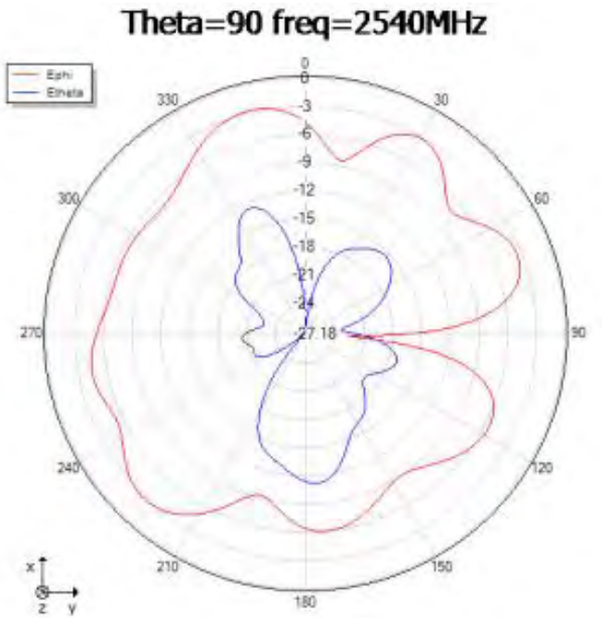


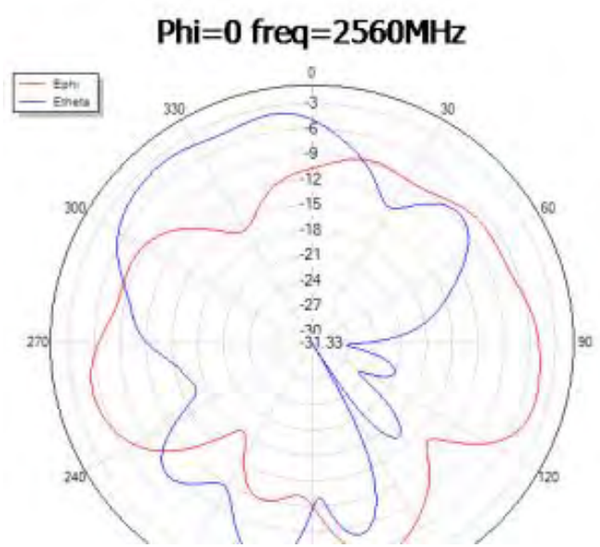


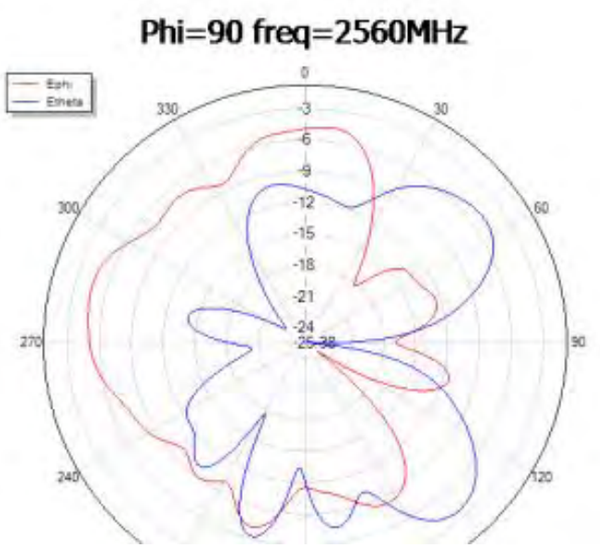
LTE B7/38/41Apple Diagram and Direction Chart

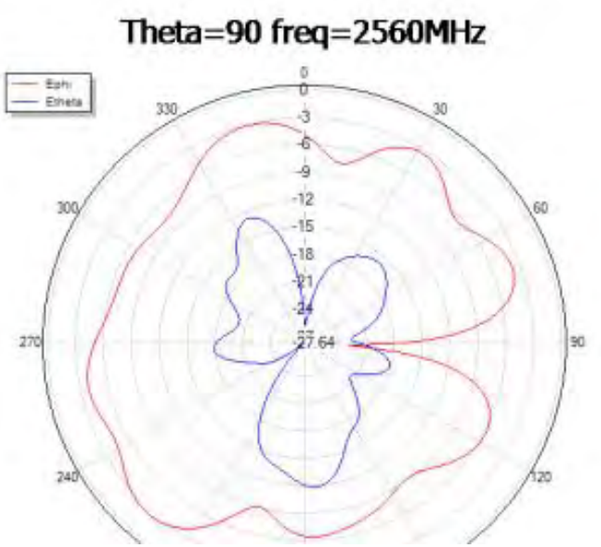












LTE B7/38/41Apple Diagram and Direction Chart

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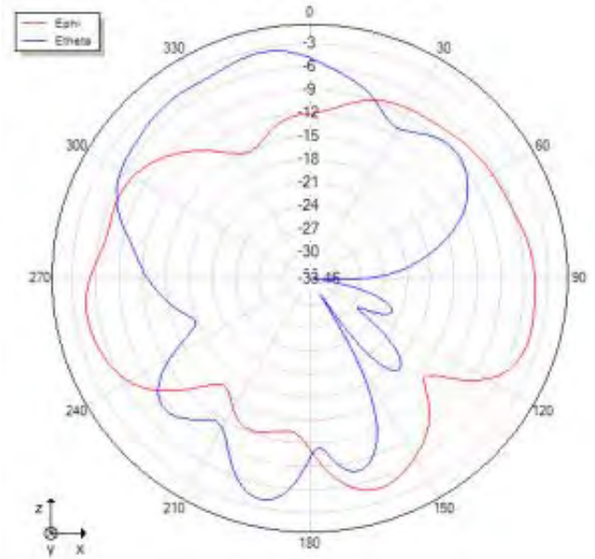
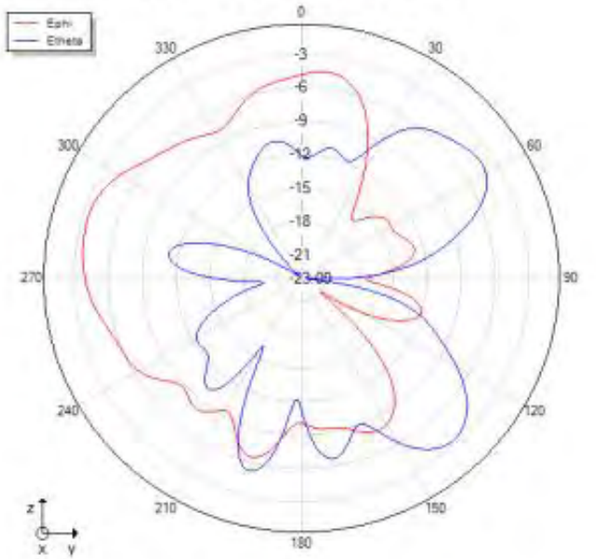
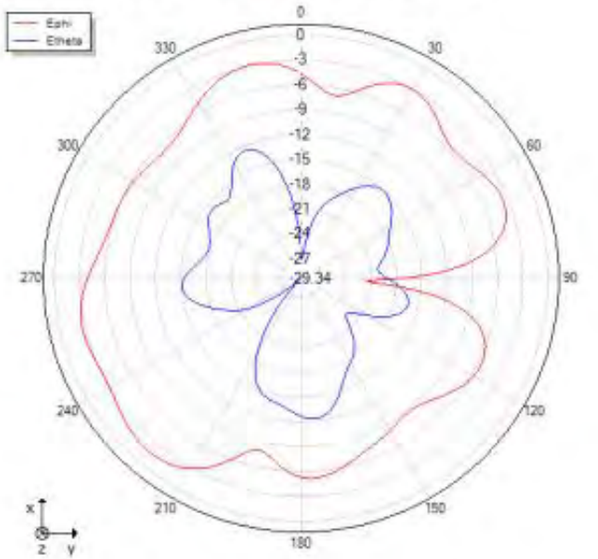


Phi=90 freq=2580MHz



Theta=90 freq=2580MHz



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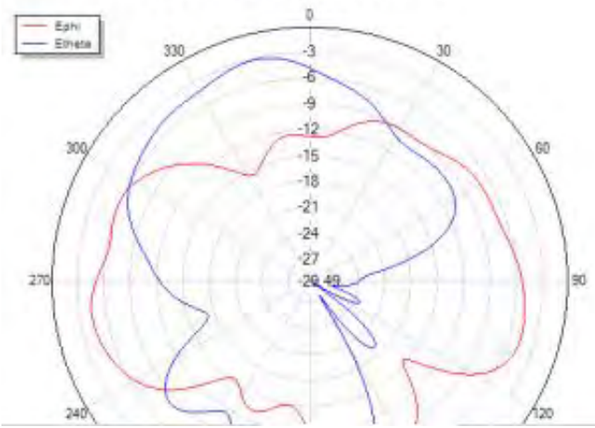

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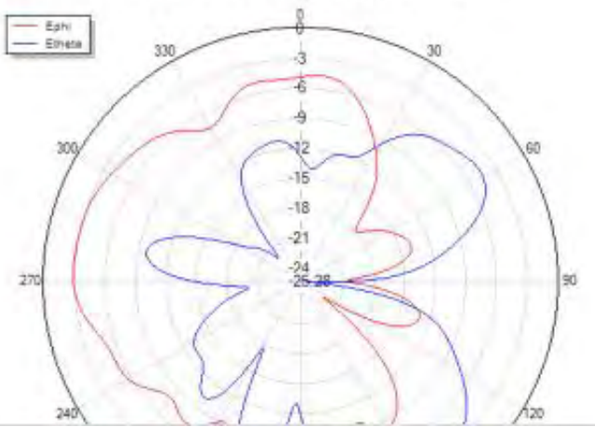

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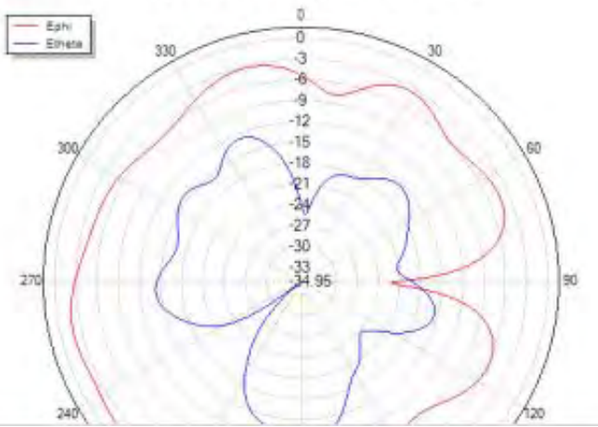
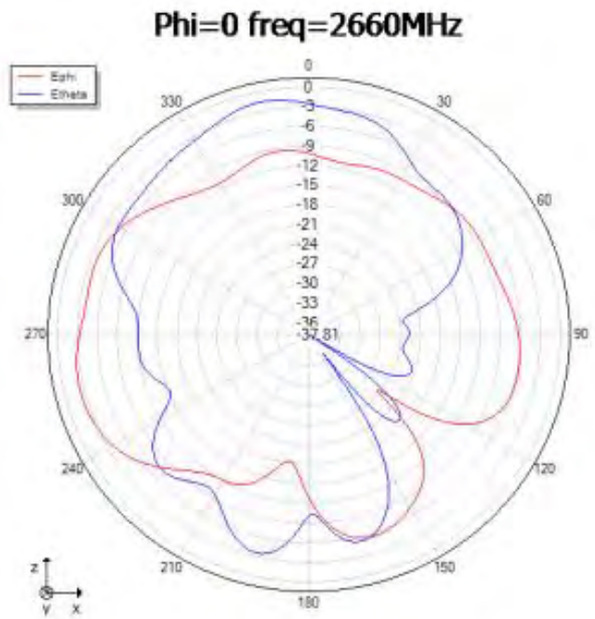
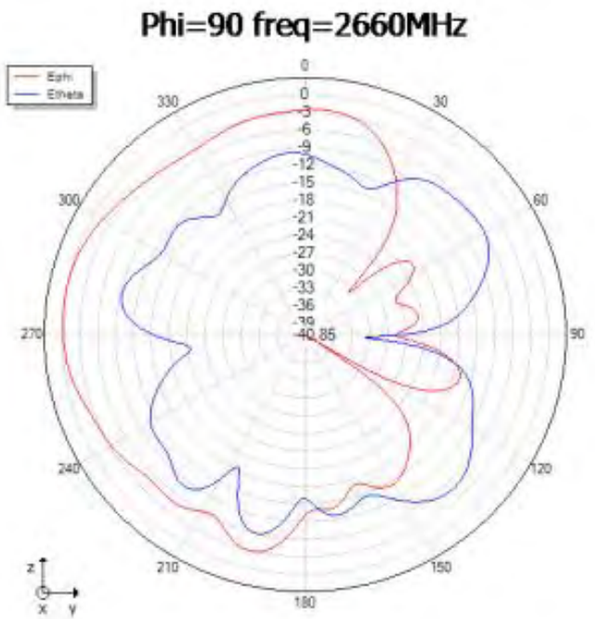
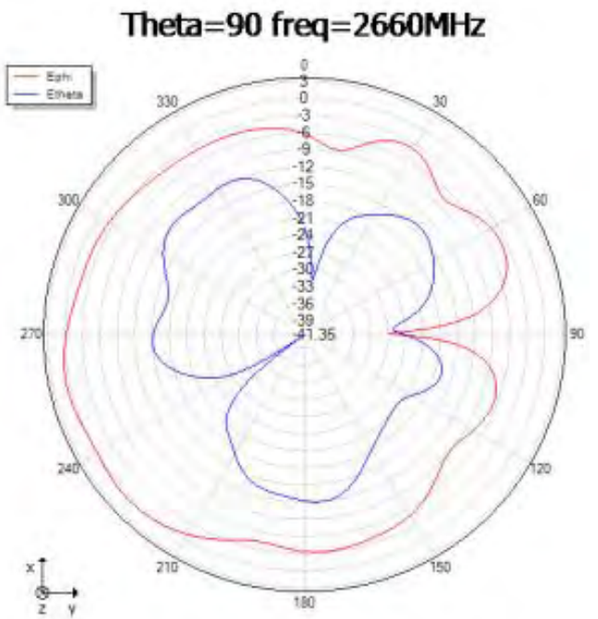
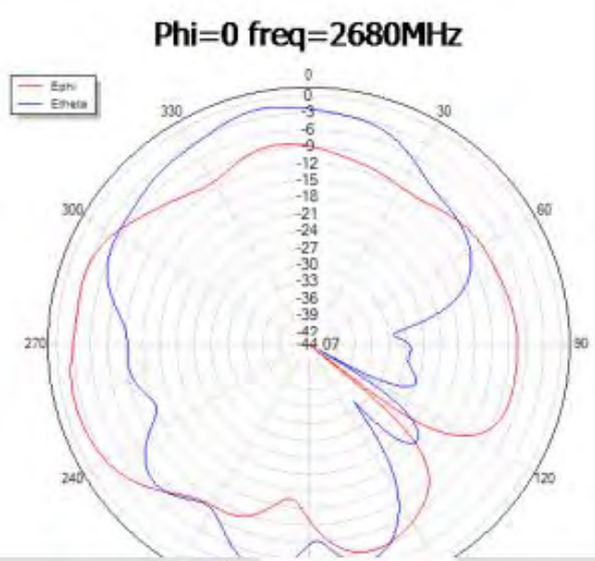


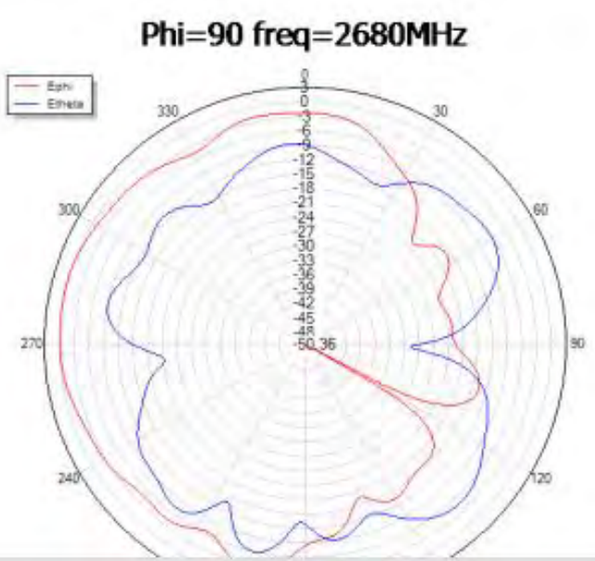
LTE B7/38/41Apple Diagram and Direction Chart

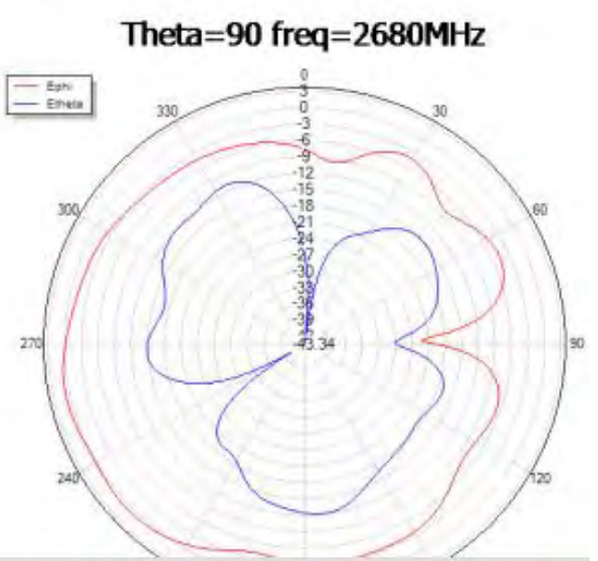




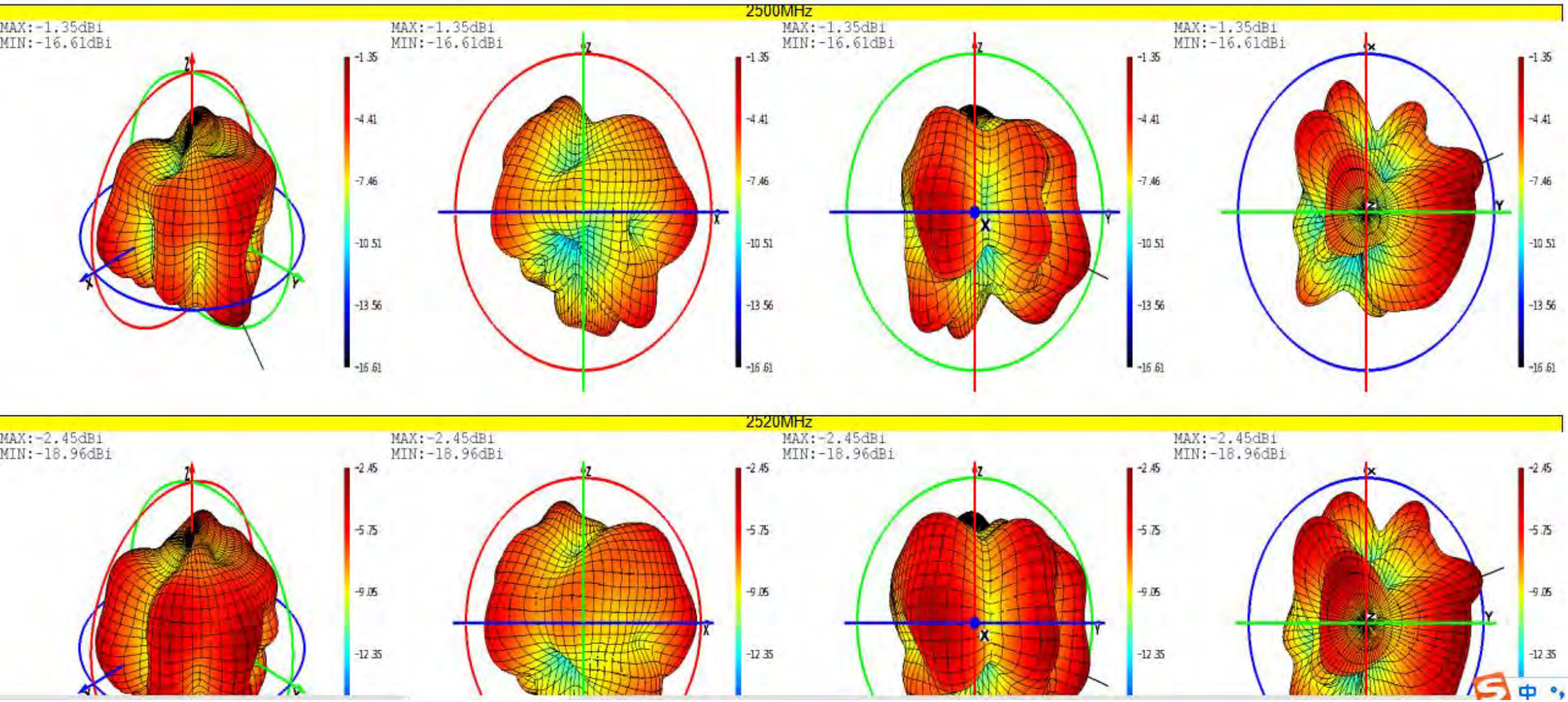




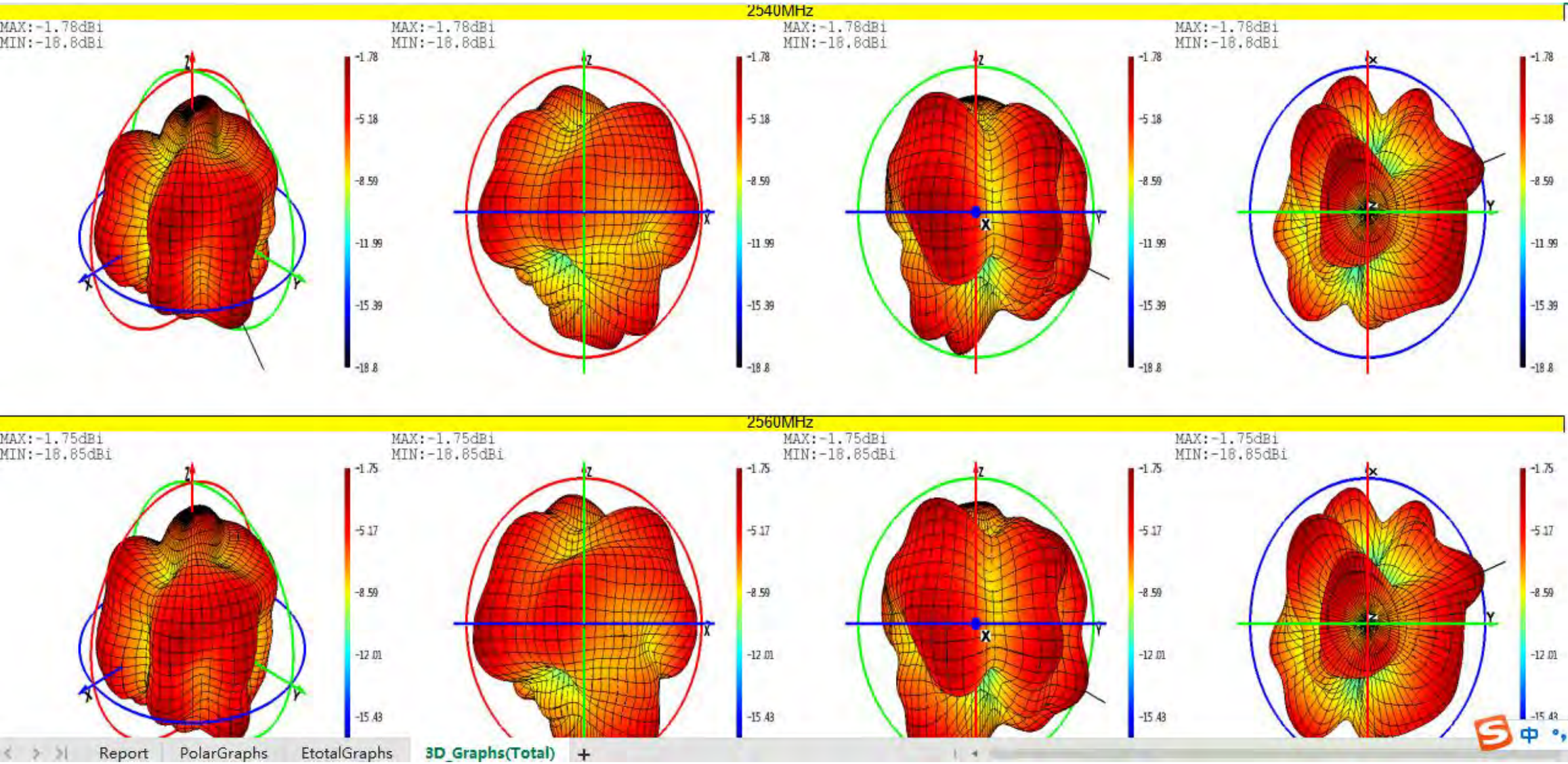




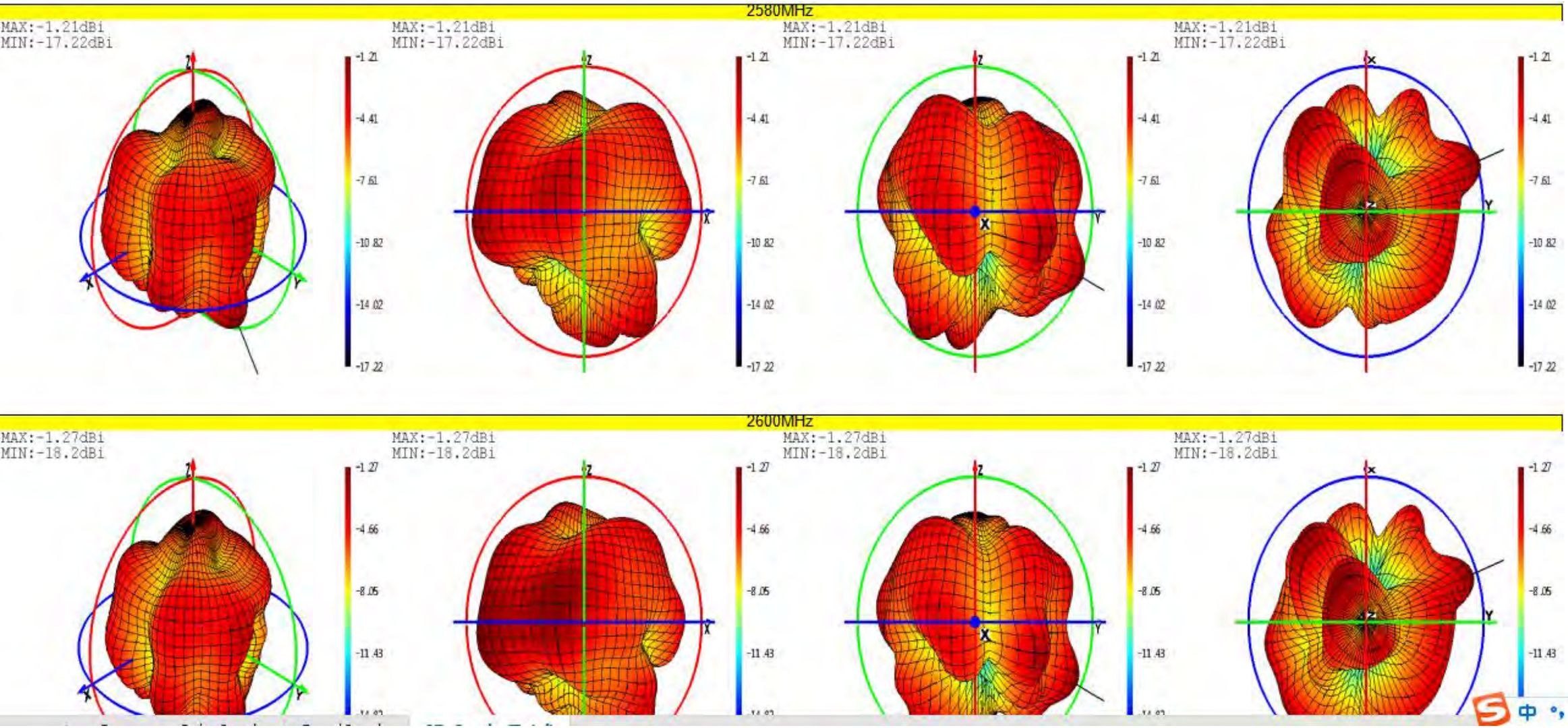
LTE B7/38/41Apple Diagram and Direction Chart



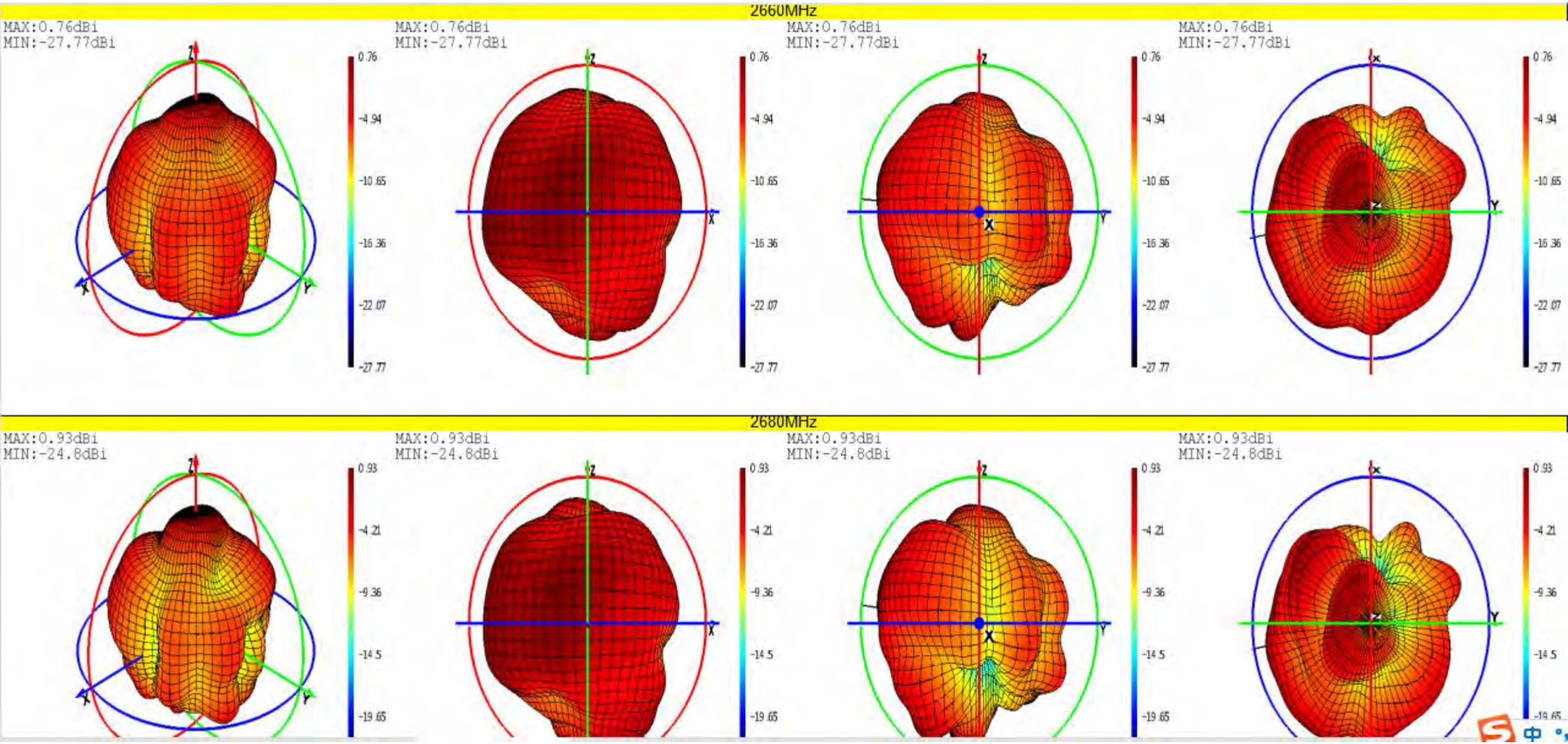
LTE B7/38/41Apple Diagram and Direction Chart



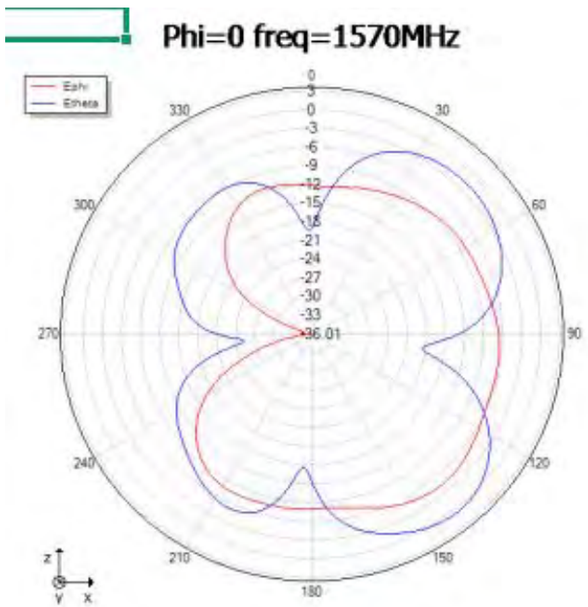
LTE B7/38/41Apple Diagram and Direction Chart

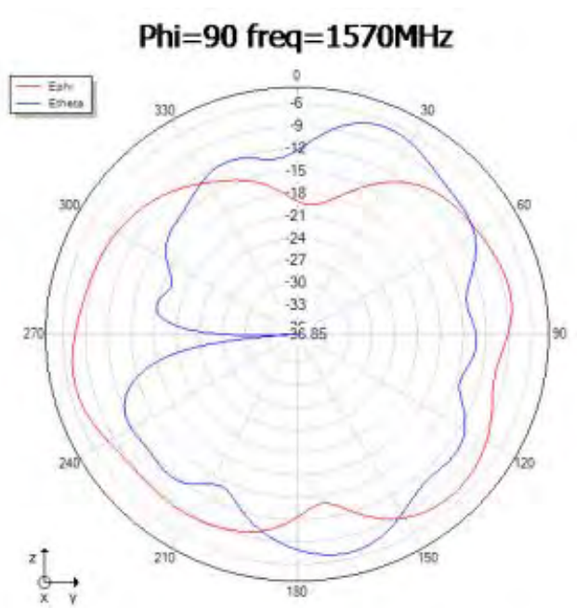


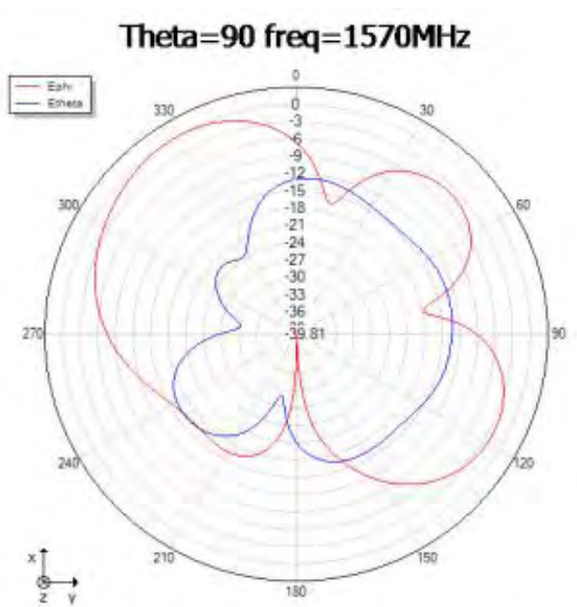
LTE B7/38/41Apple Diagram and Direction Chart

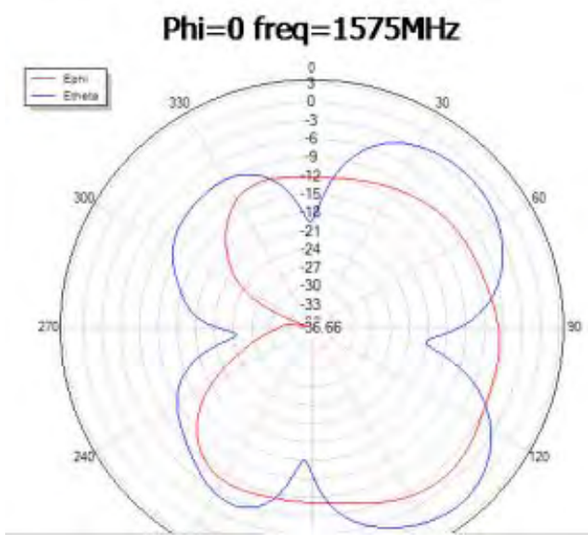


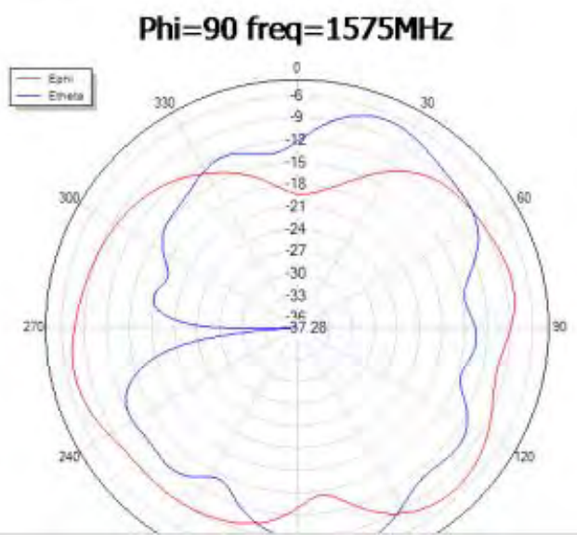
GPS Apple Diagram and Direction Chart

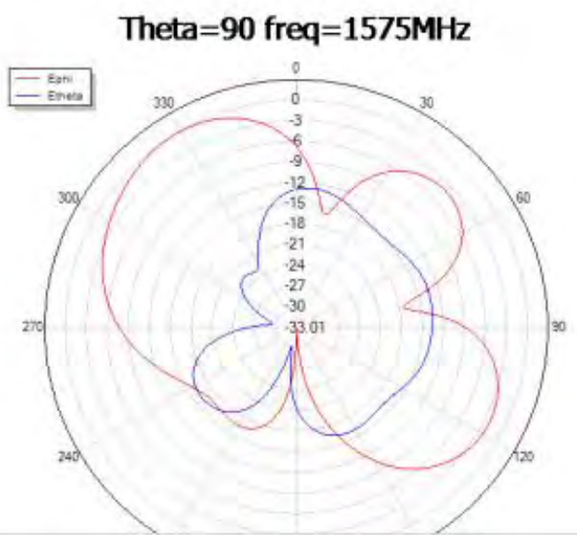




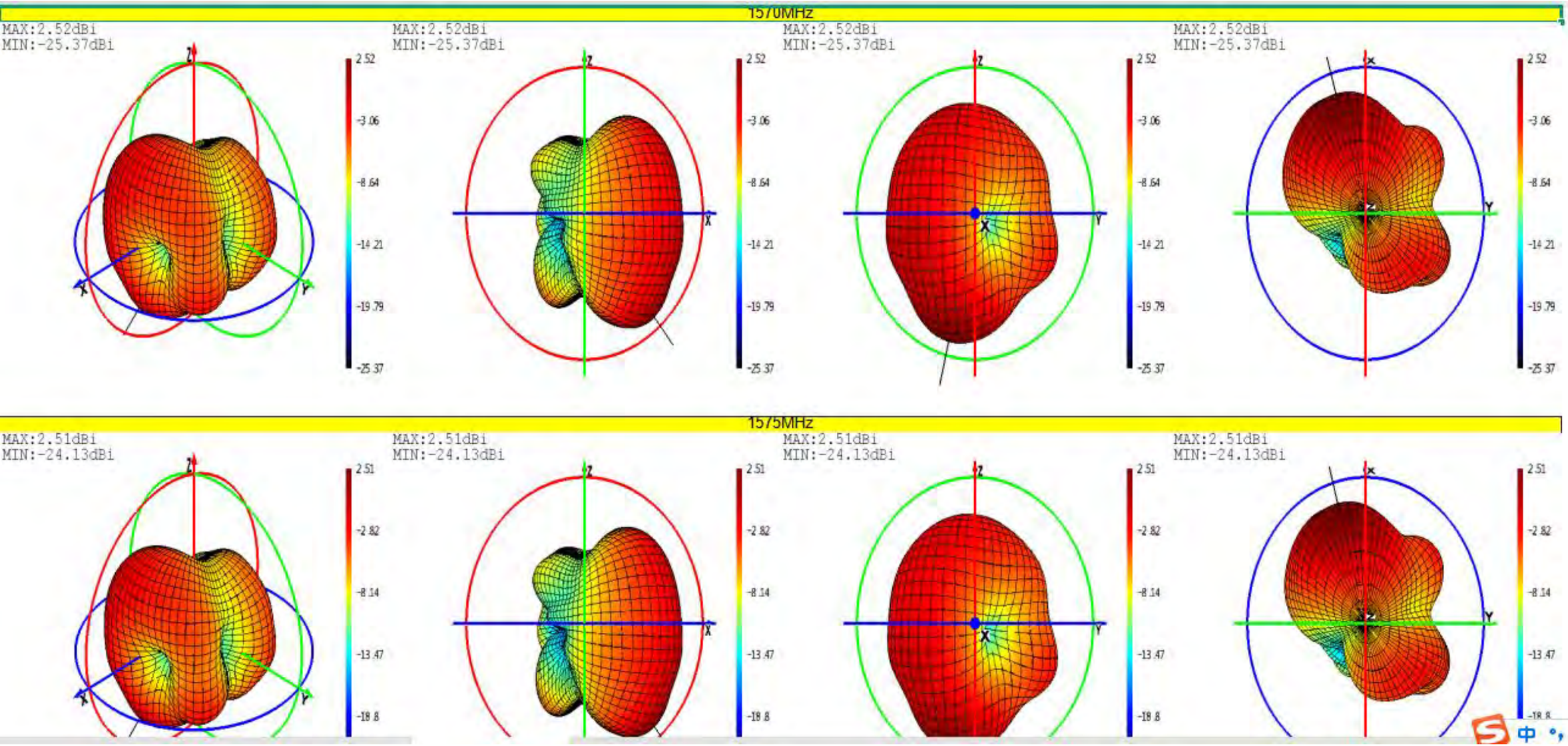




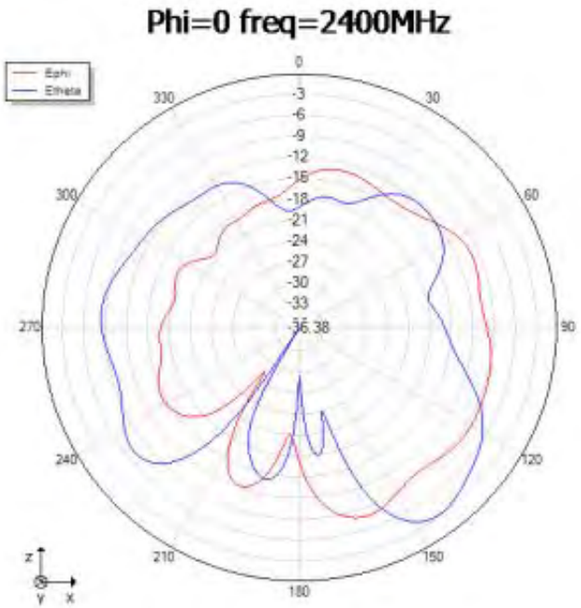


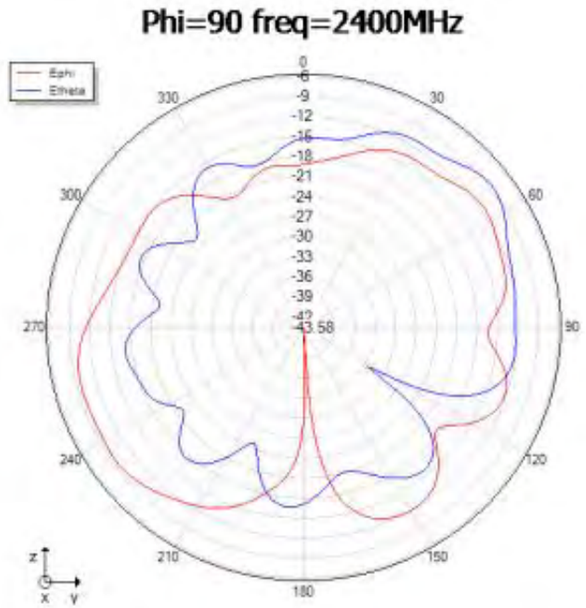


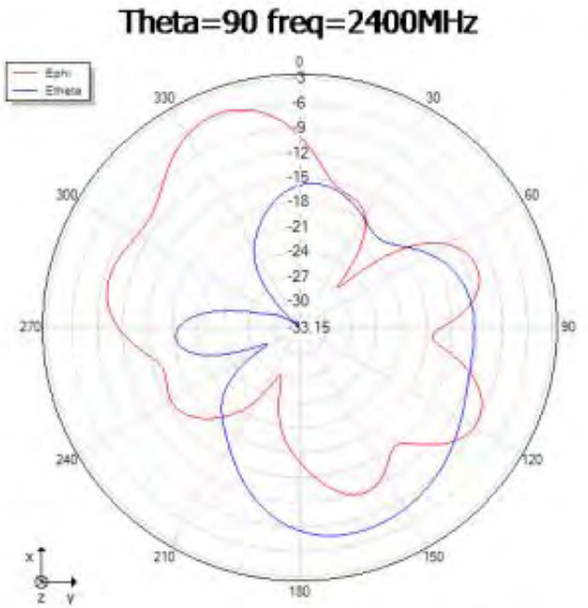
GPS Apple Diagram and Direction Chart

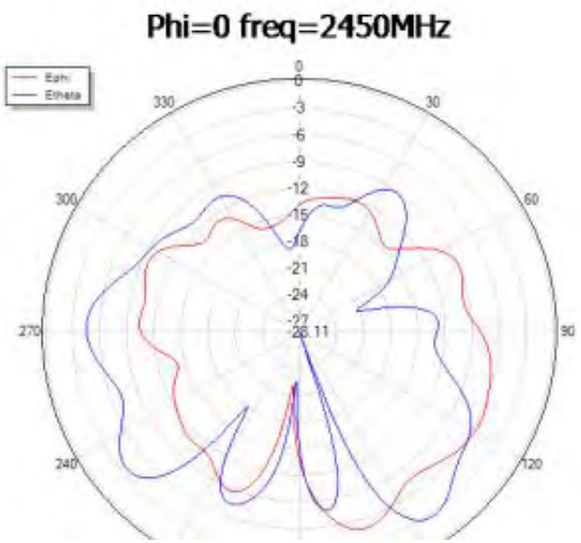


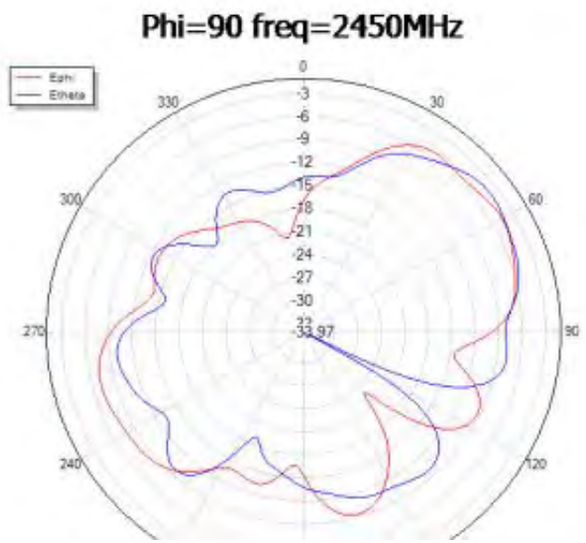
2.4GWIFI Apple Diagram and Direction Chart

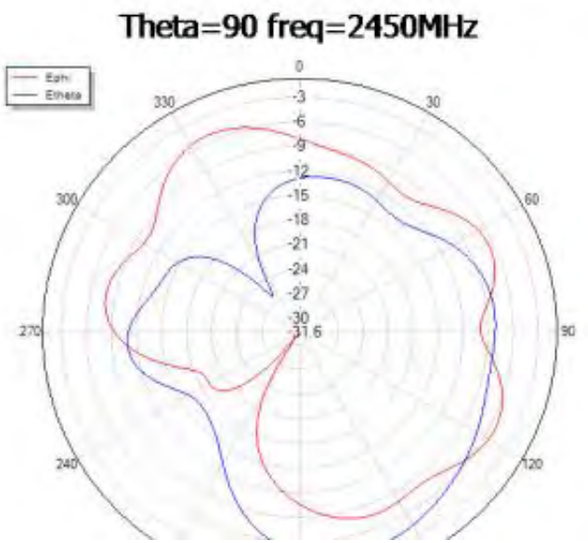




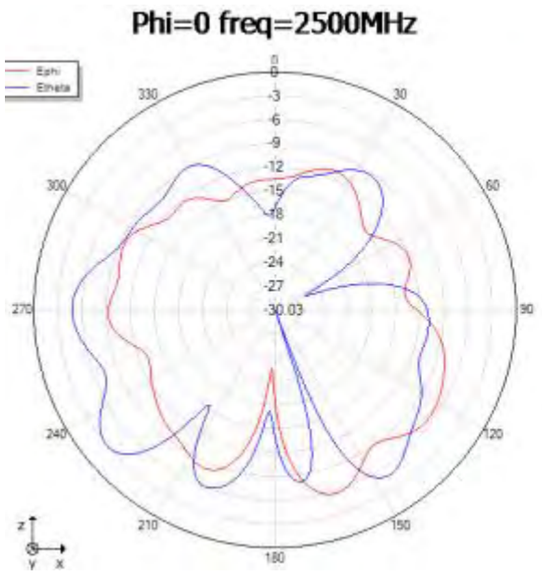


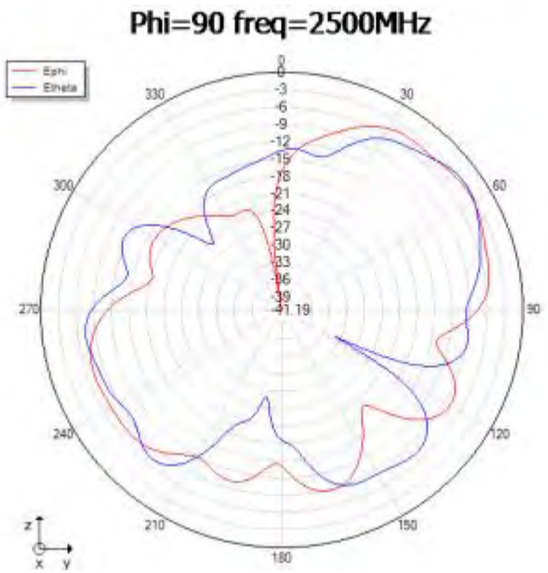


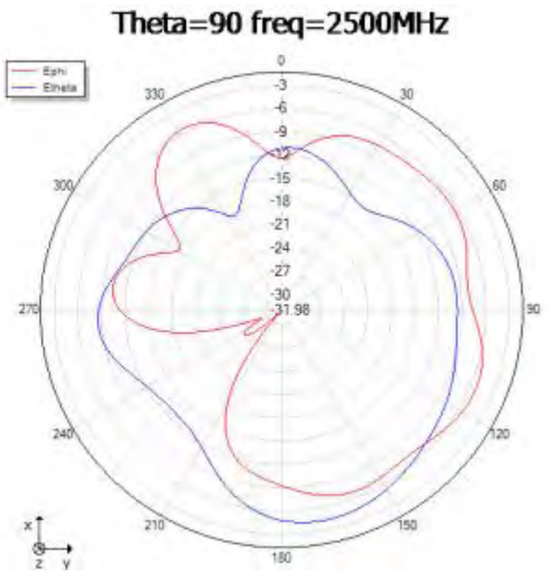




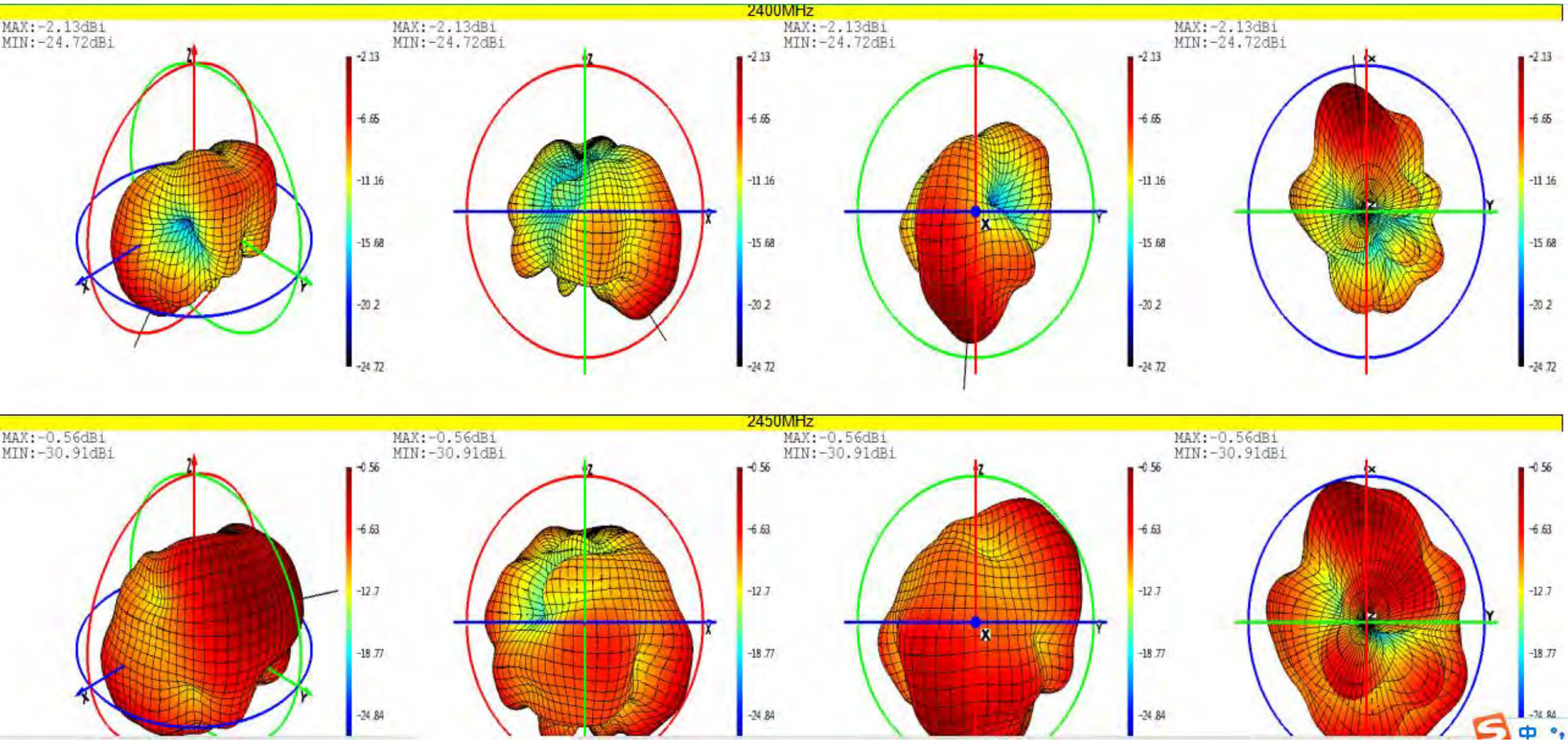
2.4GWIFI Apple Diagram and Direction Chart



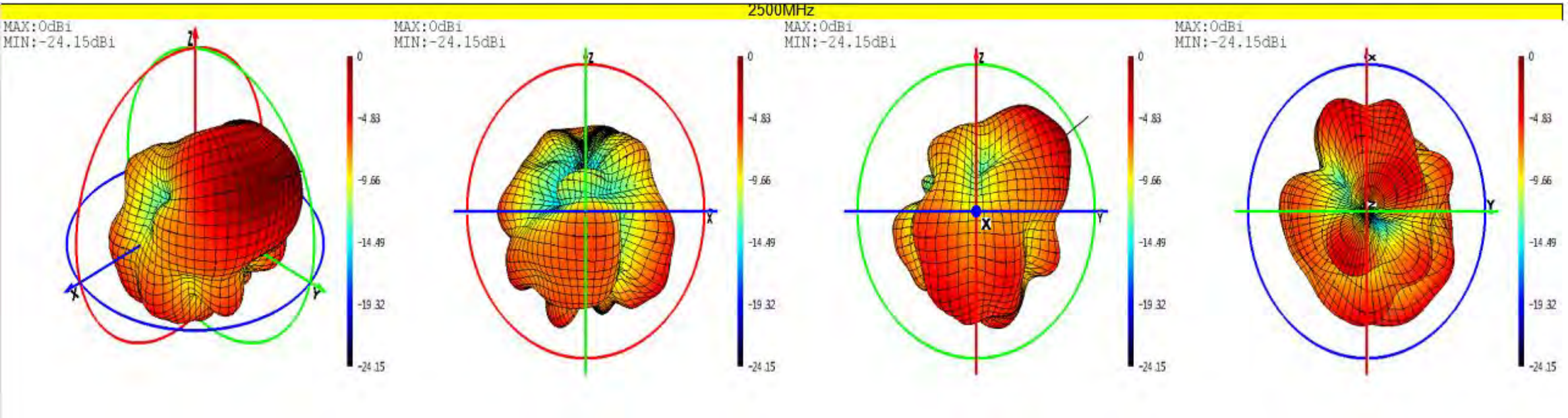




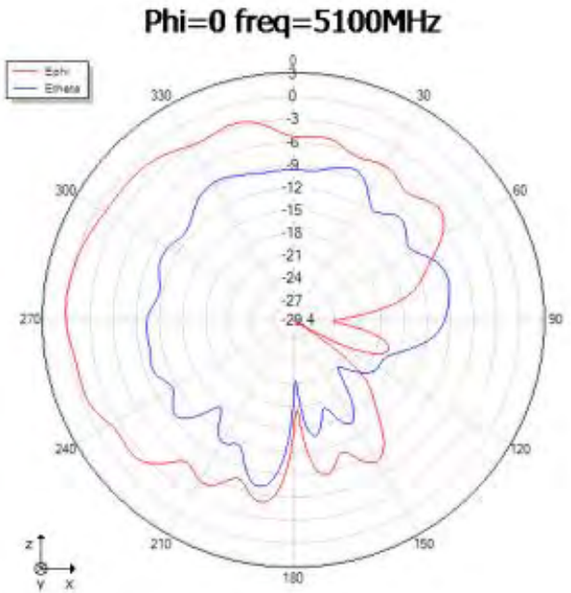
2.4GWIFI Apple Diagram and Direction Chart

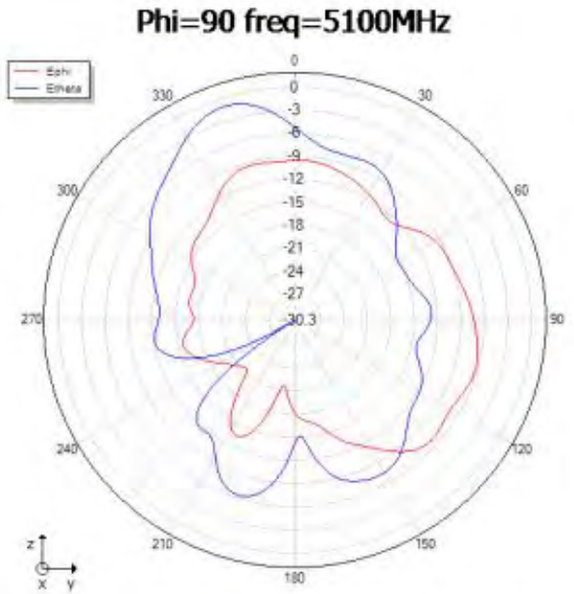


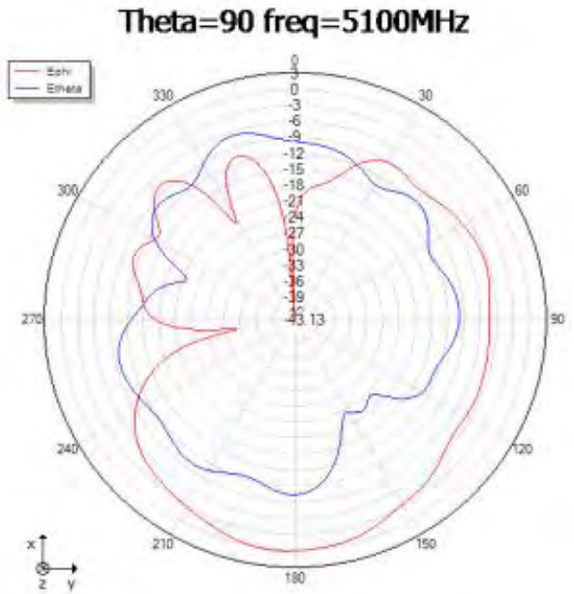
2.4GWIFI Apple Diagram and Direction Chart

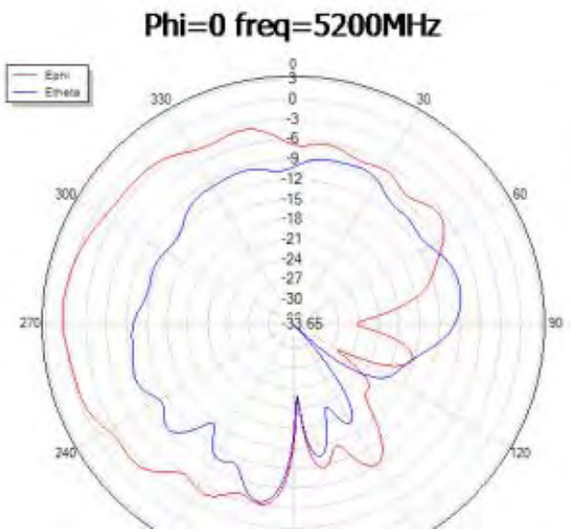


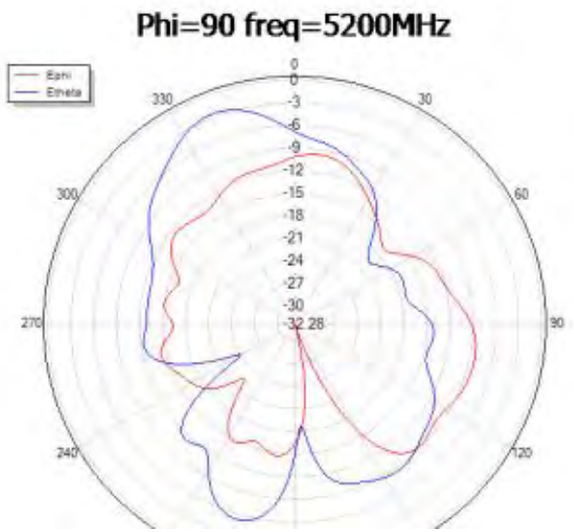
5GWIFI Apple Diagram and Direction Chart

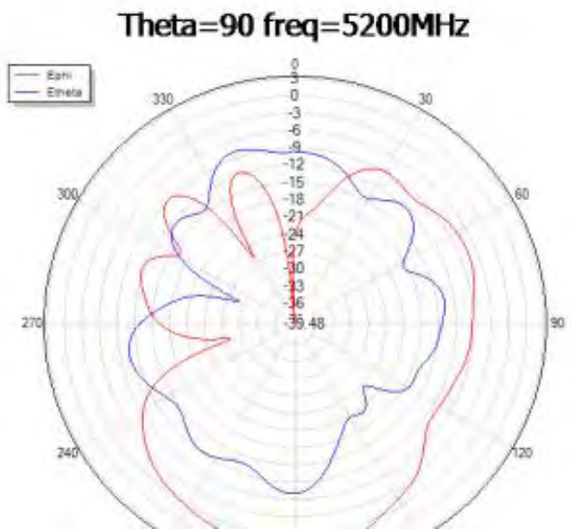












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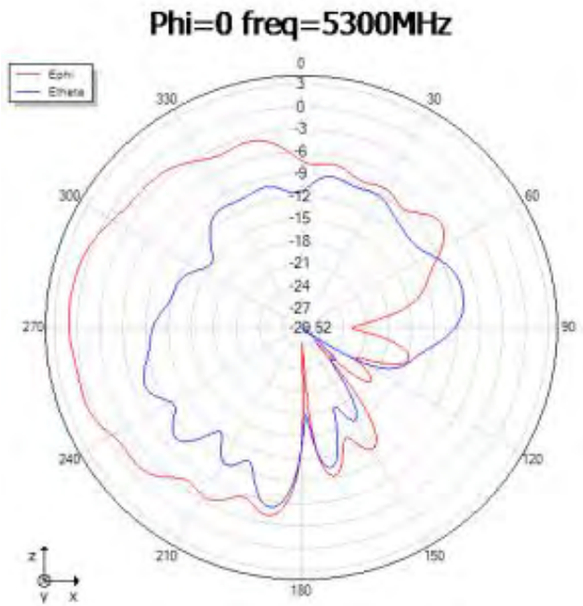

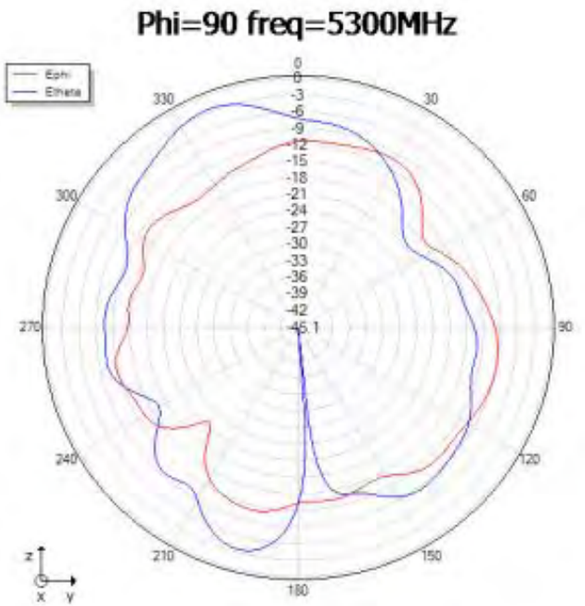

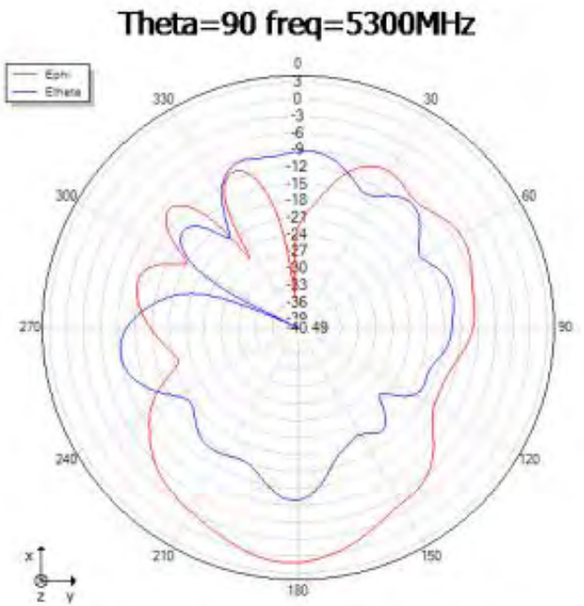

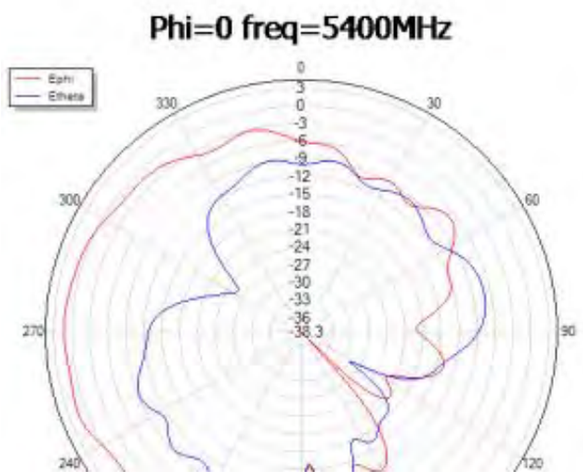

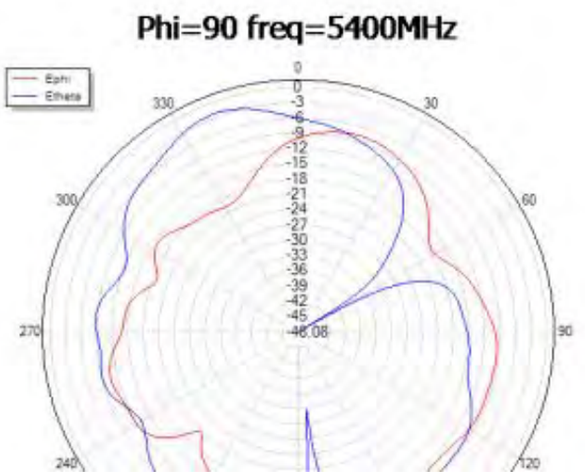

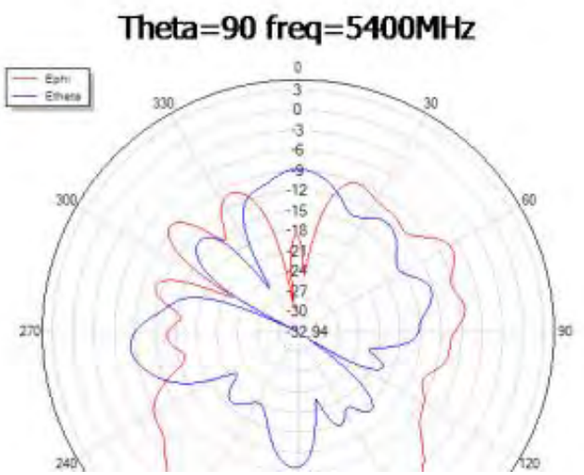

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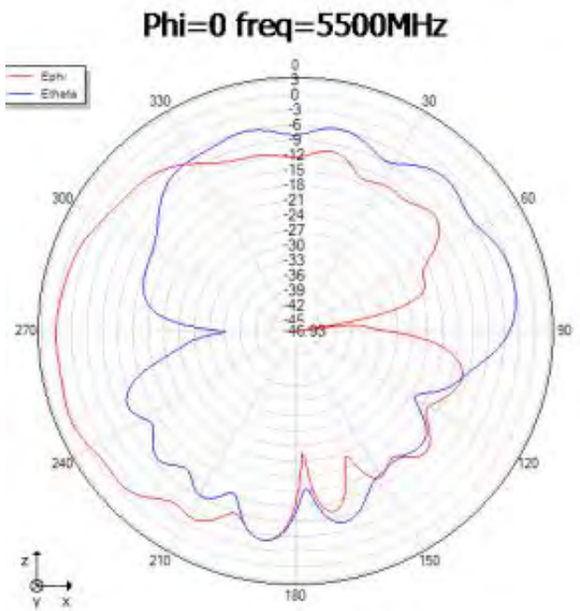

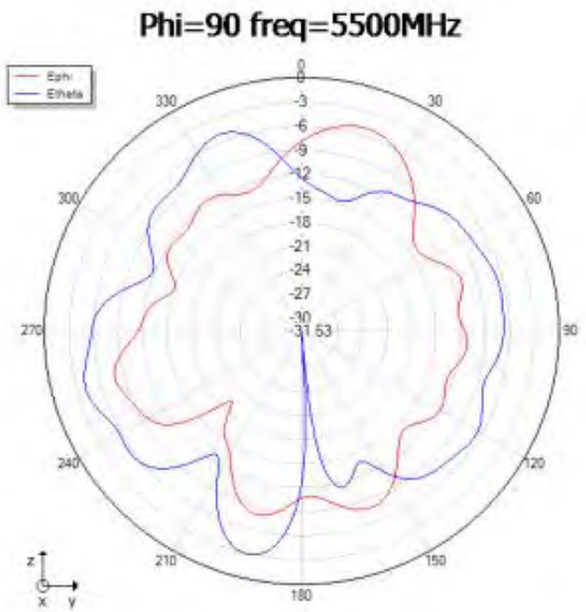

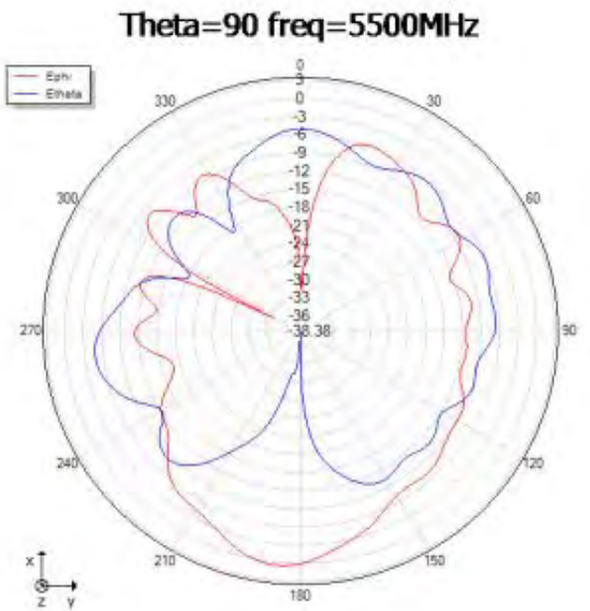

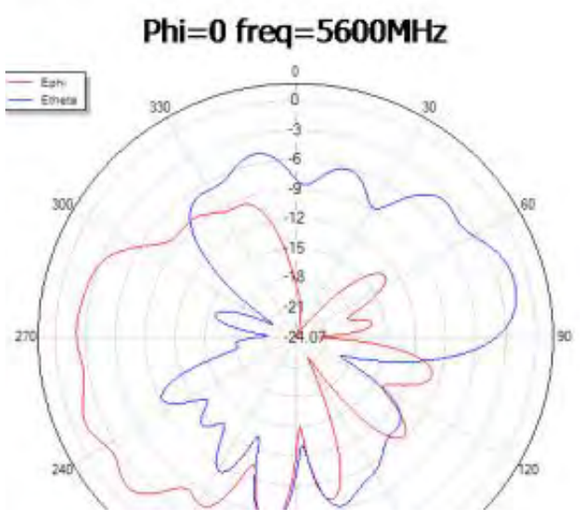

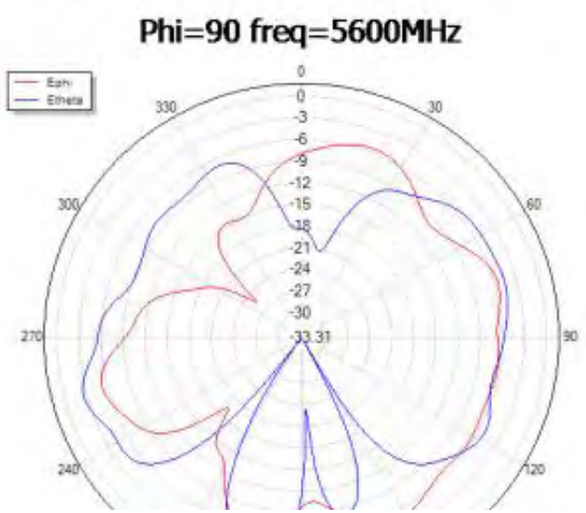

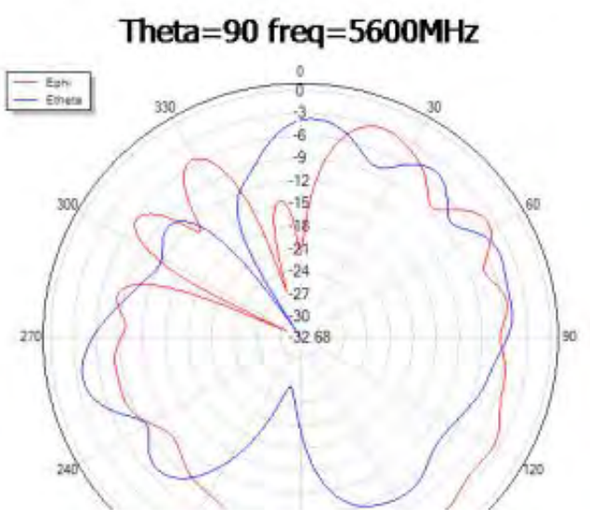

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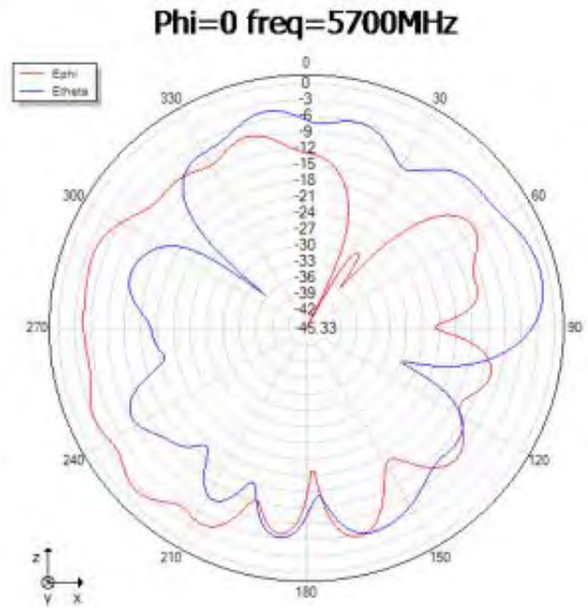

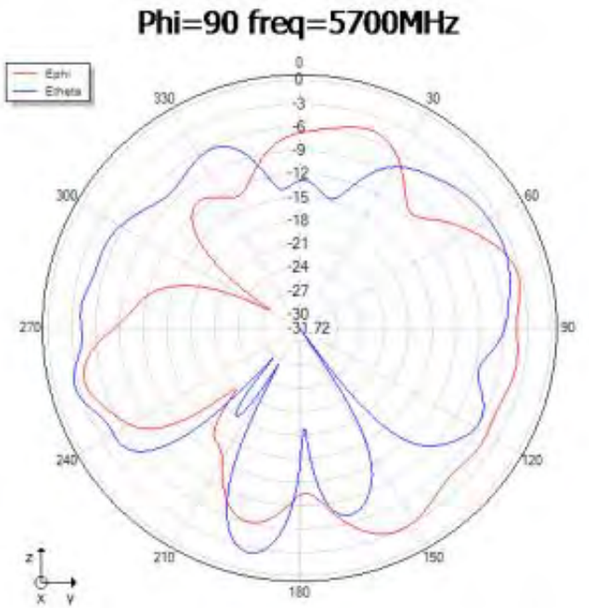

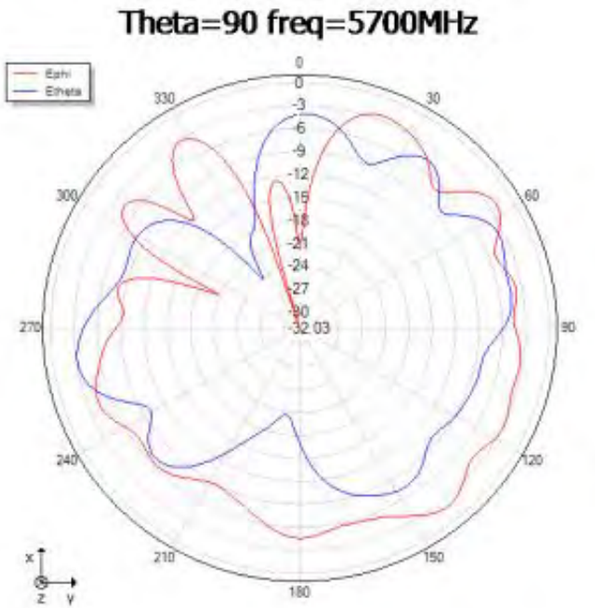

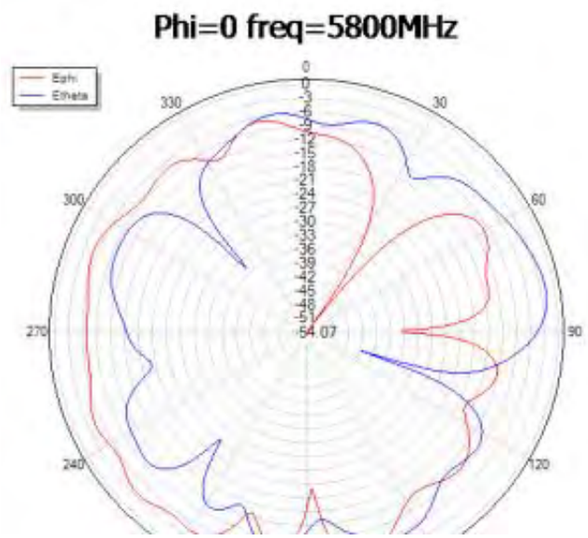

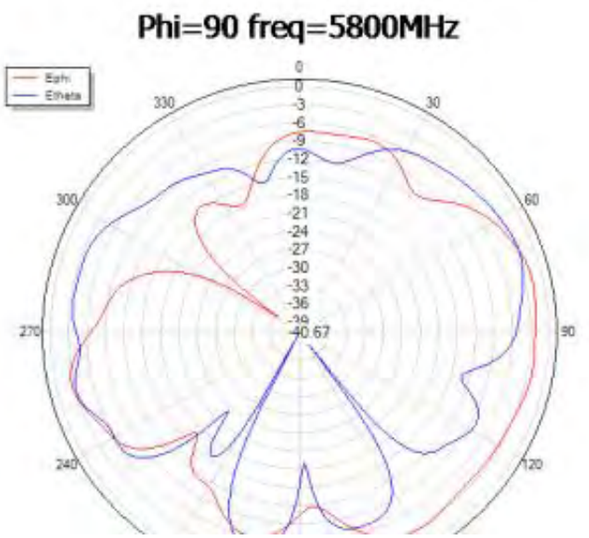

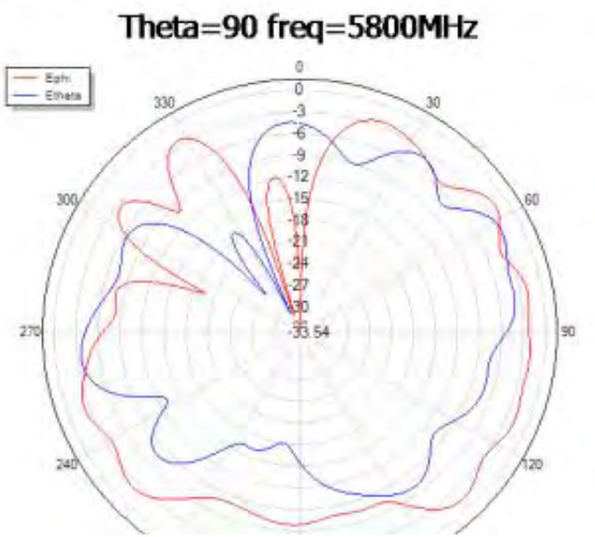

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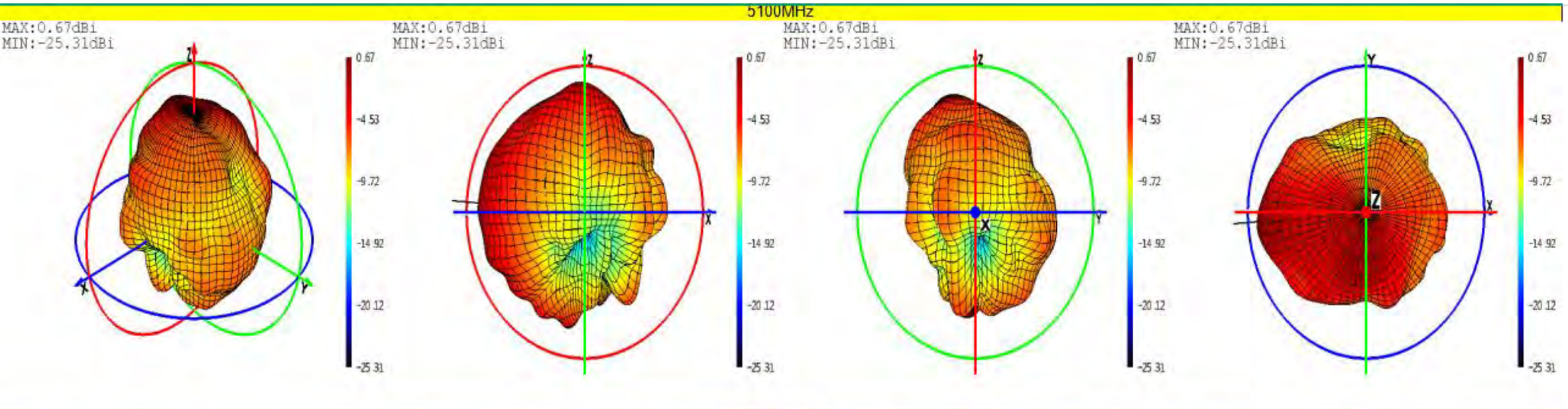
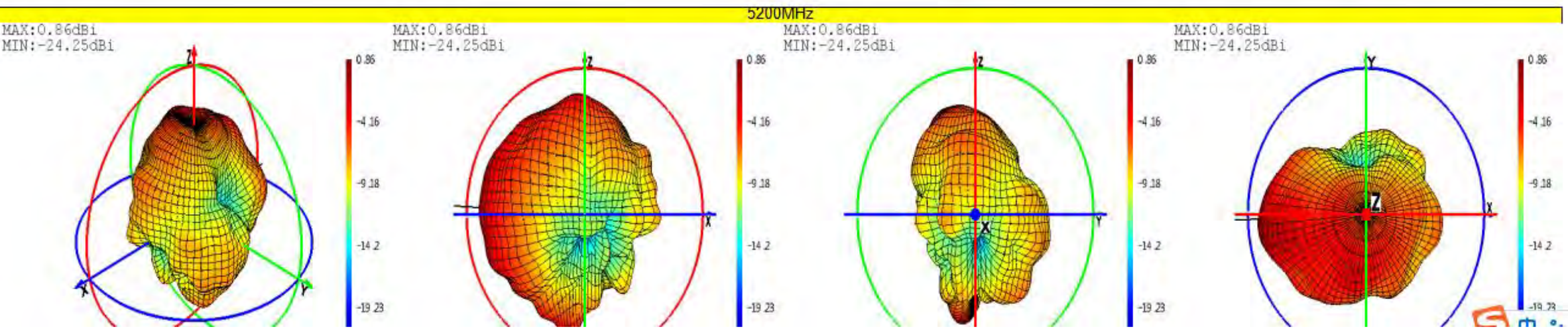
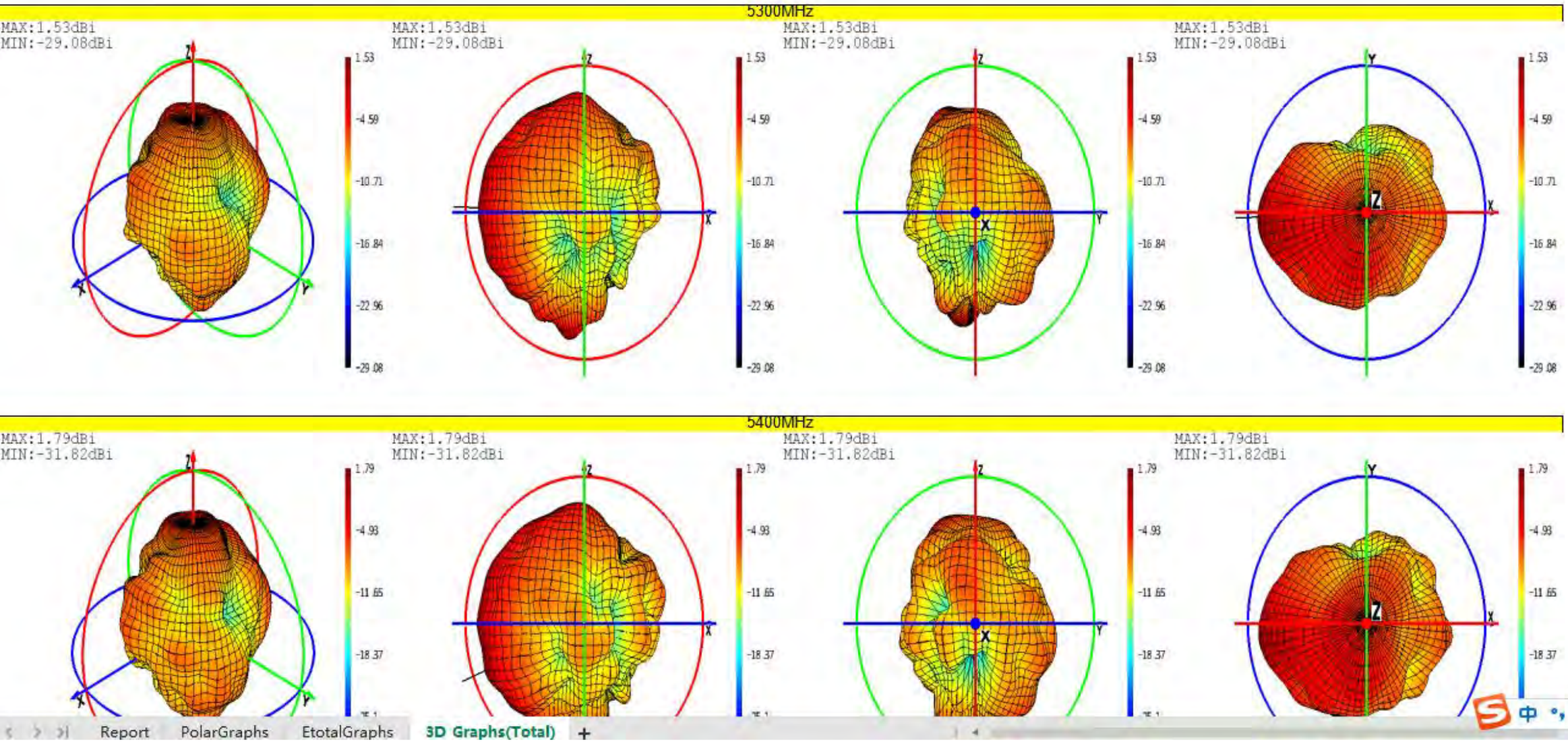




5GWIFI Apple Diagram and Direction Chart



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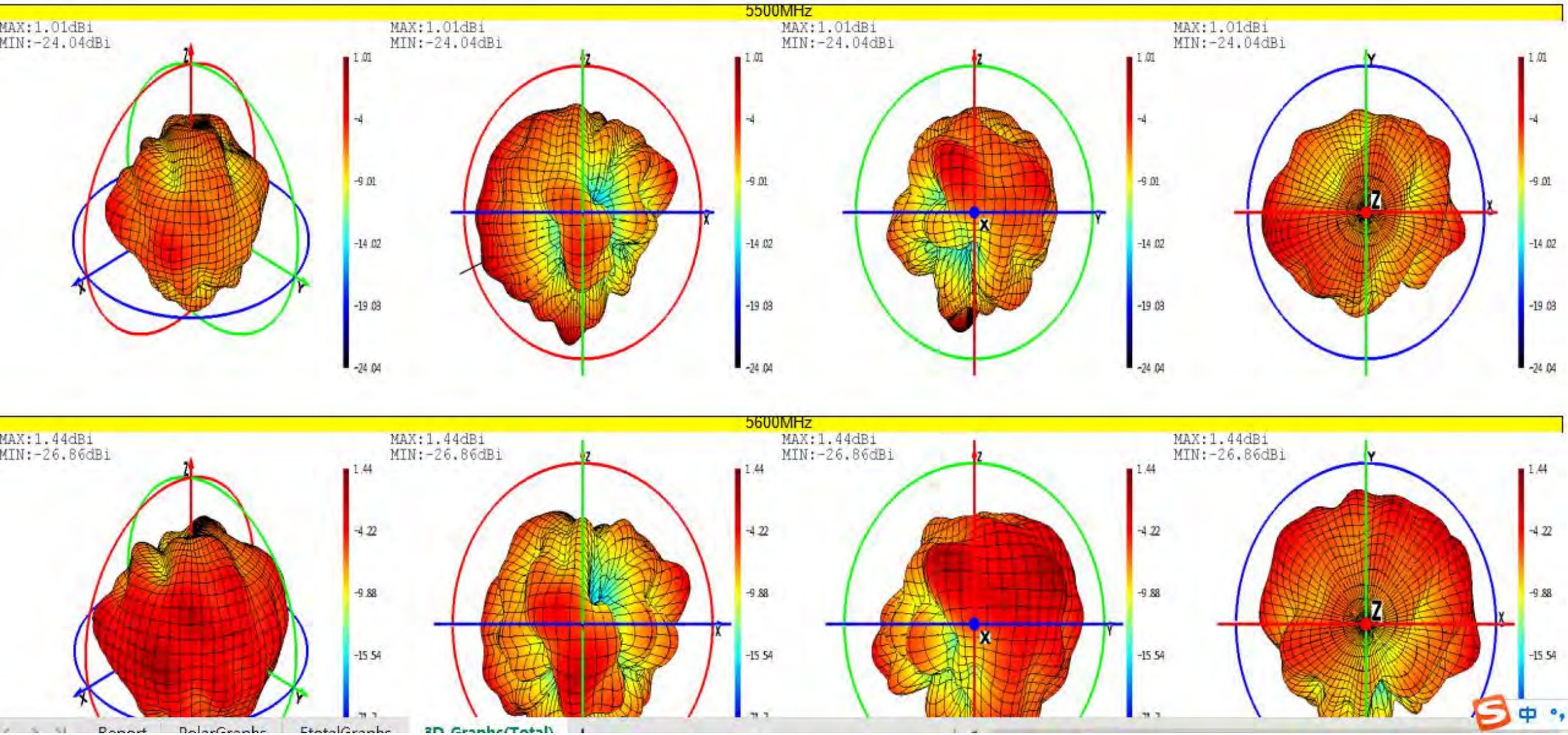

5GWIFI Apple Diagram and Direction Chart

5700MHz

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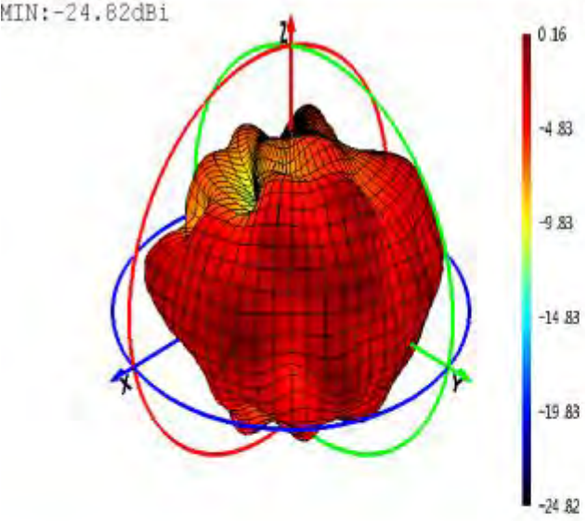

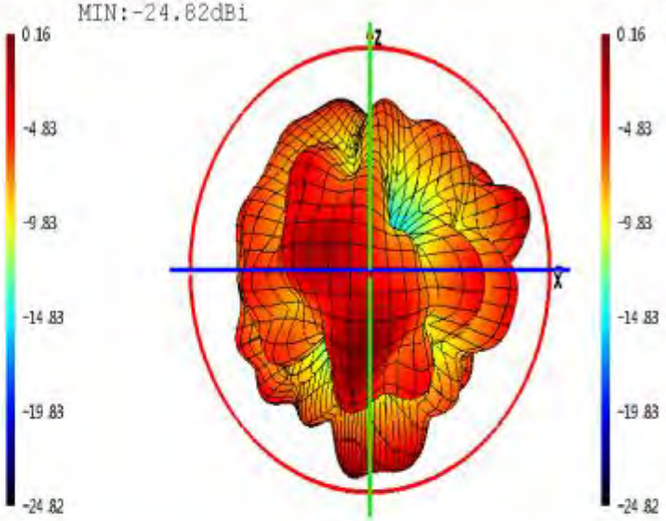

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MAX:0.16dBi
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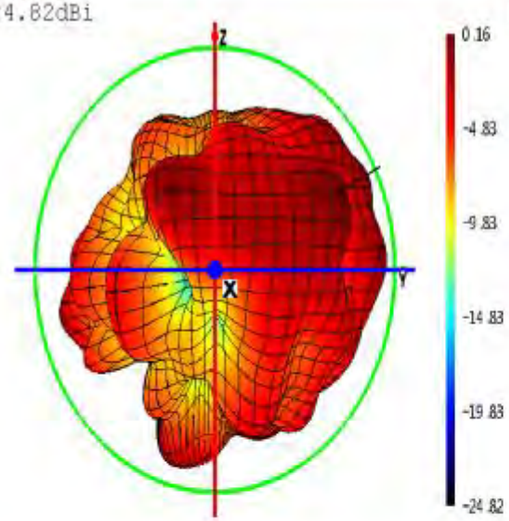

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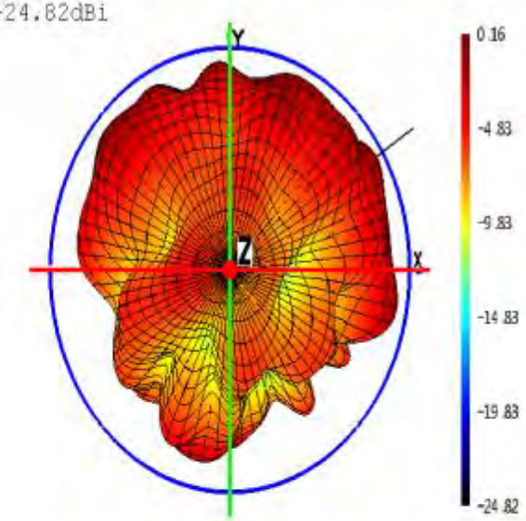

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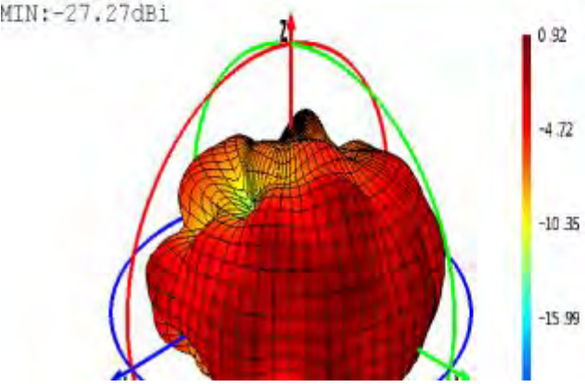

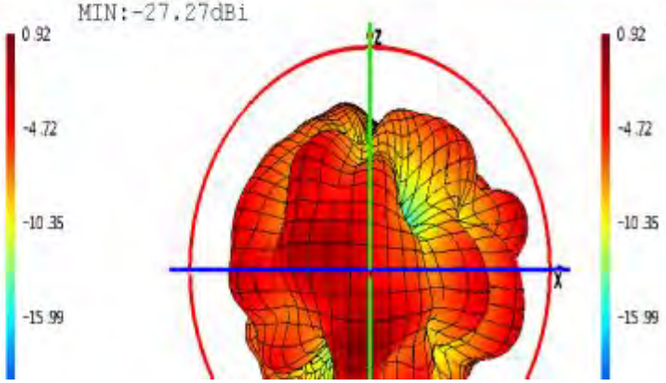

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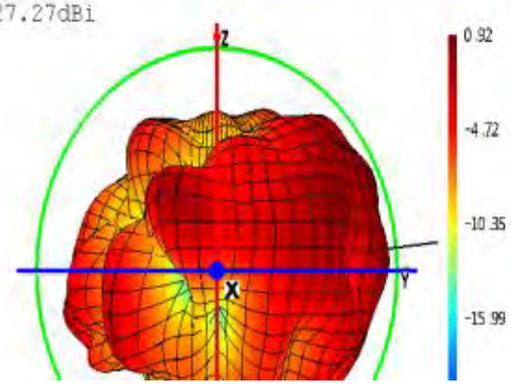
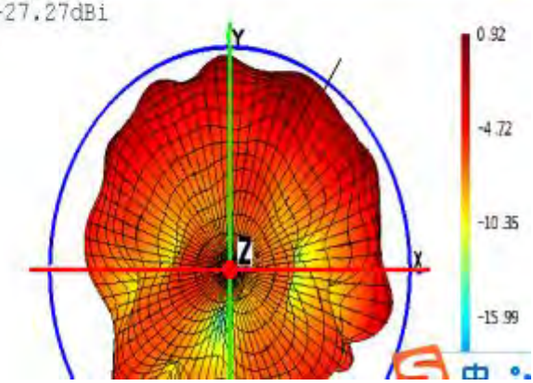


MAX:0.92dBi
MIN:-27.27dBi



Antenna gain

天线增益(Antenna gain)

Standard	Band	Frequency	Gain(dbi)
FDD_LTE	FDD_B1	1925	-0.87
FDD_LTE	FDD_B2	1855	-0.7
FDD_LTE	FDD_B3	1715	-1.59
FDD_LTE	FDD_B4	1715	-1.58
FDD_LTE	FDD_B5	829	-1.45
FDD_LTE	FDD_B7	2505	0.76
FDD_LTE	FDD_B8	885	-2.87
FDD_LTE	FDD_B12	707	-2.78
FDD_LTE	FDD_B17	709	-2.78
FDD_LTE	FDD_B18	820	-1.48
FDD_LTE	FDD_B19	835	-1.44
FDD_LTE	FDD_B20	837	-1.46
FDD_LTE	FDD_B26	819	-1.49

Antenna gain

FDD_LTE	FDD_B28	723	-2.70
FDD_LTE	FDD_B66	1745	-1.55
TDD_LTE	TDD_B38	2580	0.74
TDD_LTE	TDD_B40	2310	-1.56
TDD_LTE	TDD_B41	2593	0.82
WCDMA	WCDMA_B1	1922.4	-0.85
WCDMA	WCDMA_B2	1852.4	-0.71
WCDMA	WCDMA B4	1715	-1.54
WCDMA	WCDMA B5	826.4	-1.45
WCDMA	WCDMA_B8	882.4	-2.83
GSM	GSM850	824.2	-1.45
GSM	GSM900	890.2	-2.83
GSM	PCS1900	1850.2	-0.71
GSM	DCS1800	1710.2	-1.53

Antenna gain

2.4GWIFI	2412	-0.56

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BT	2400	-0.56
GPS	1575	2.51
5GWIFI	5800	0.92

The End