



Antenna Test Report

Heyuan Xunwei Communication Technology Co., Ltd

RF: Chenchuanming

Date: 2023.08.09

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Contents:

Test equipment

Modal information

Matching circuit

Active performance

test data

Test equipment

Wireless communications test set: CMW500

Network Analyzer: Agilent 5071B

Anechoic Chamber : SATIMO SG24

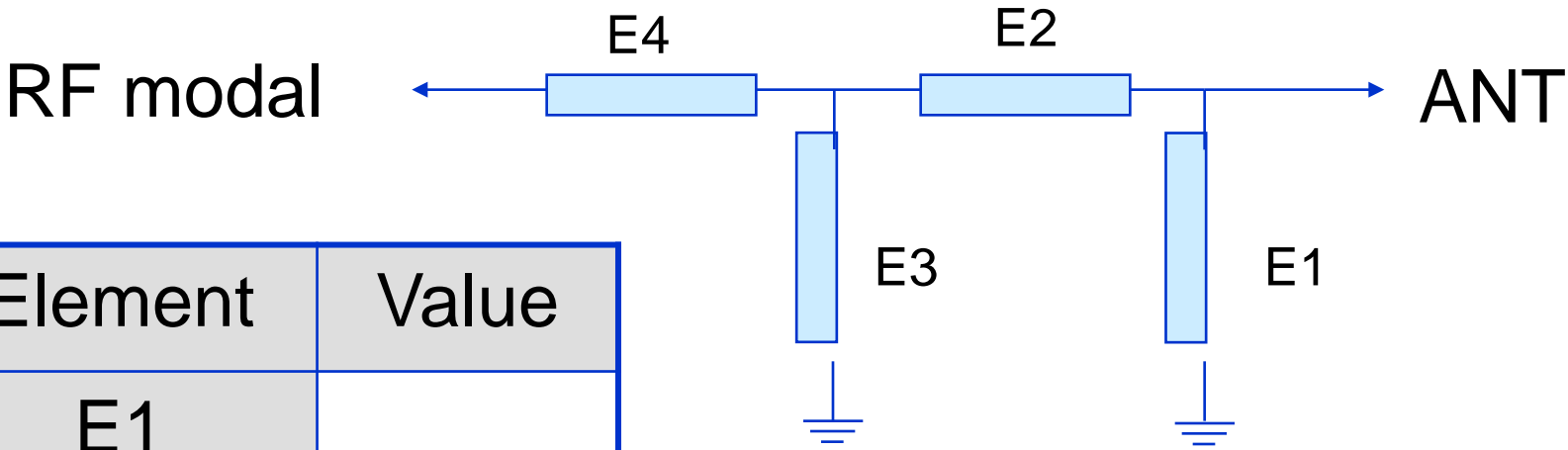


Antenna information

Customer	Boat of wealth
Antenna model	FPC
Antenna type	PIFA
Antenna band	GSM900/1800/850/1900 WCDMA-B2/B4/B5 LTE-B2/B4/B5/B12/B17/B25/ B26/B66/B71/B41

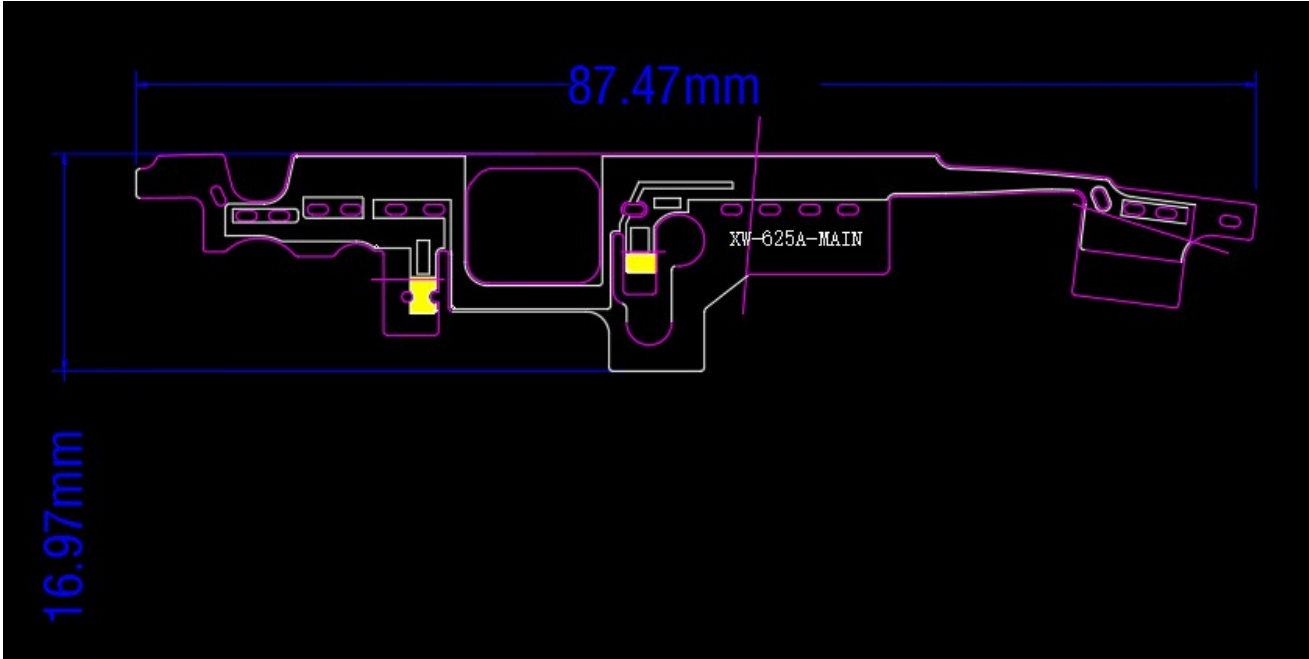
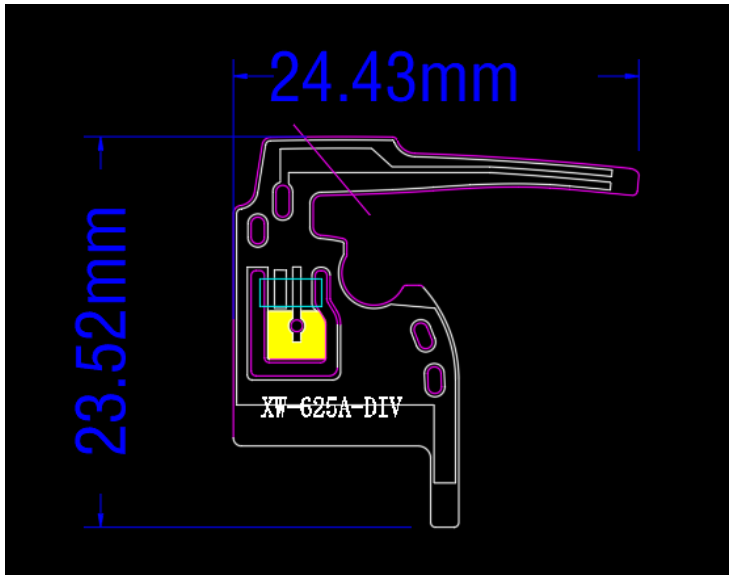
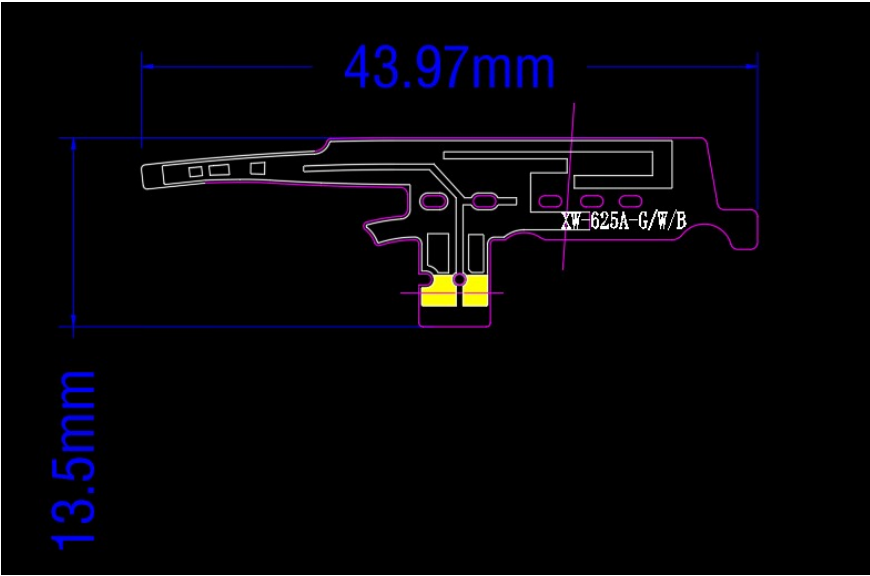
frequency range (MHz)	603–960	1710–2170	2500–2700
VSWR	<3.5	<3.5	<3.5

Matching circuit (No modification)

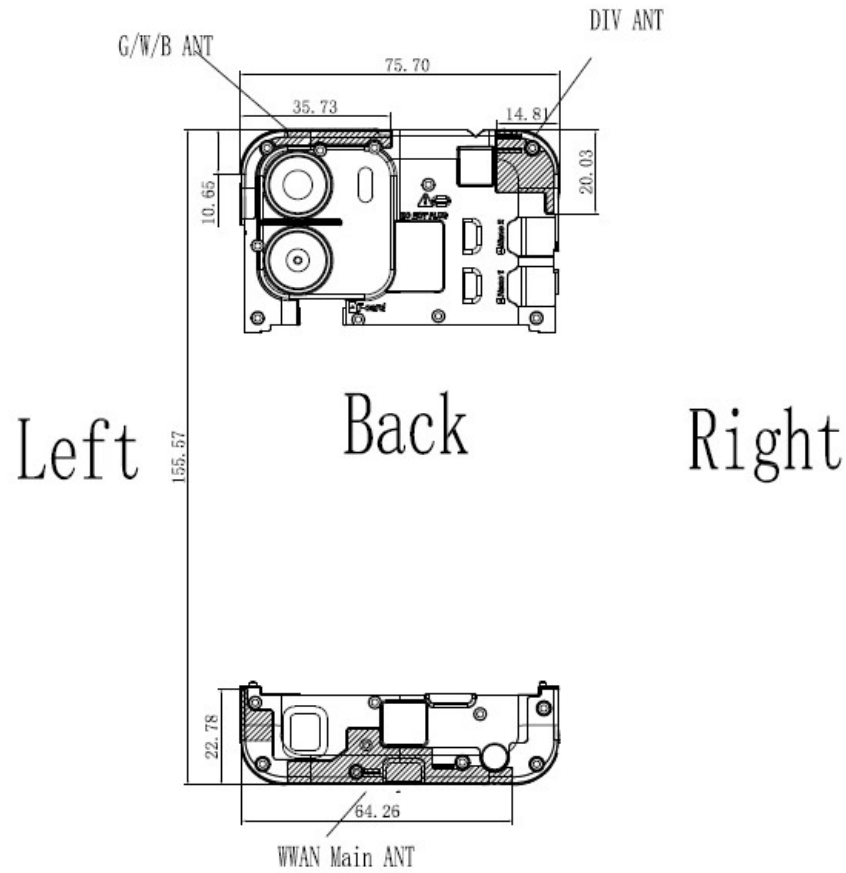


Element	Value
E1	
E2	
E3	
E4	

Antenna dimension drawing



TOP



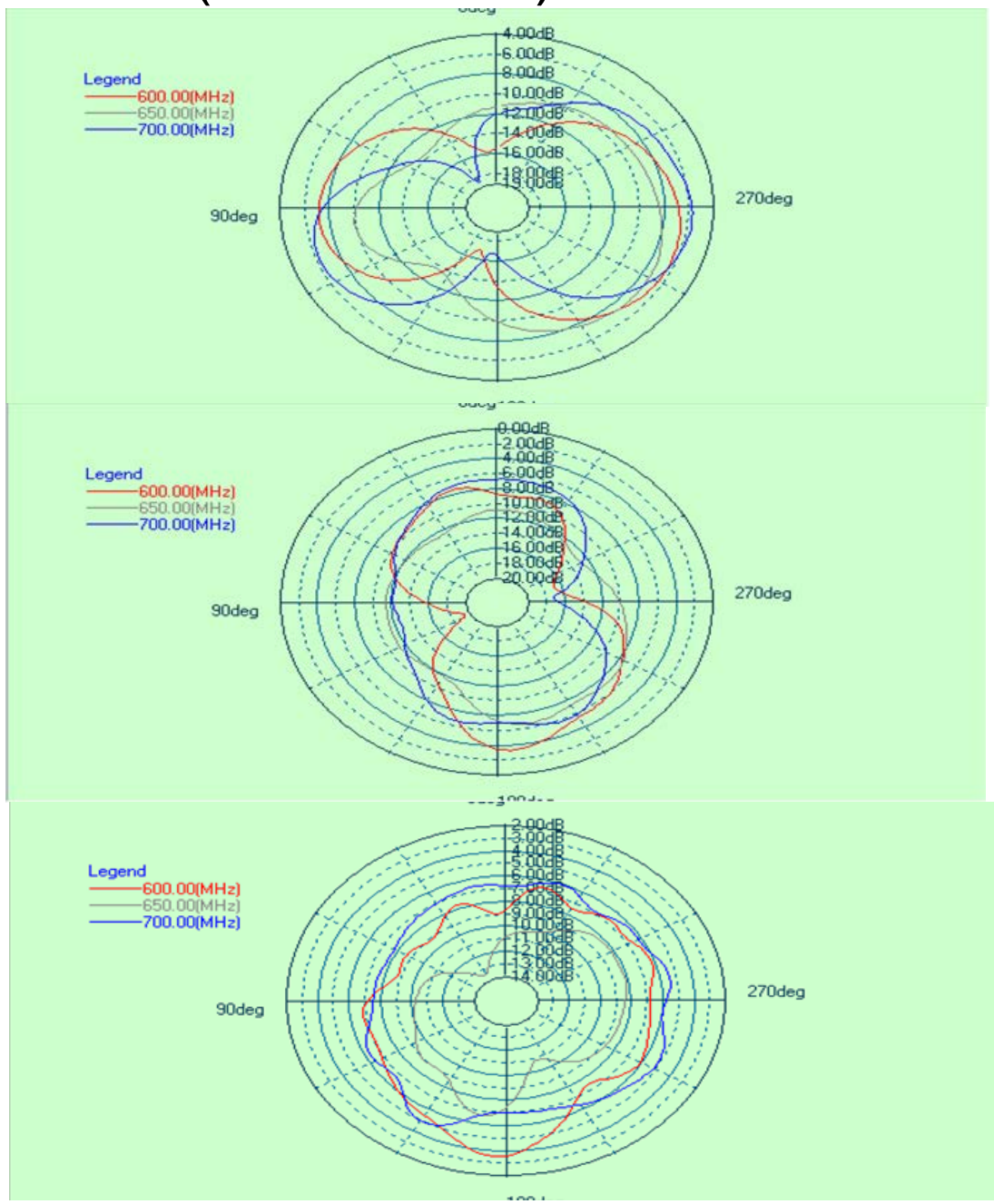
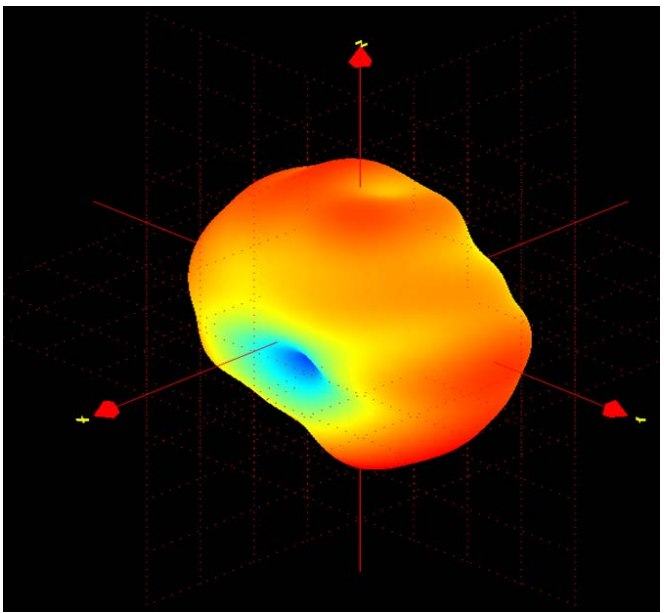
WWAN Main ANT:G850/900+W-B5+LTE-B5/B12/B17/B26/LTE-B41/B71, Tx/Rx
DIV ANT:G1800/1900+W-B2/4+LTE-B2/B4/B25/B66, Tx/Rx

Bottom

LTE Antenna gain

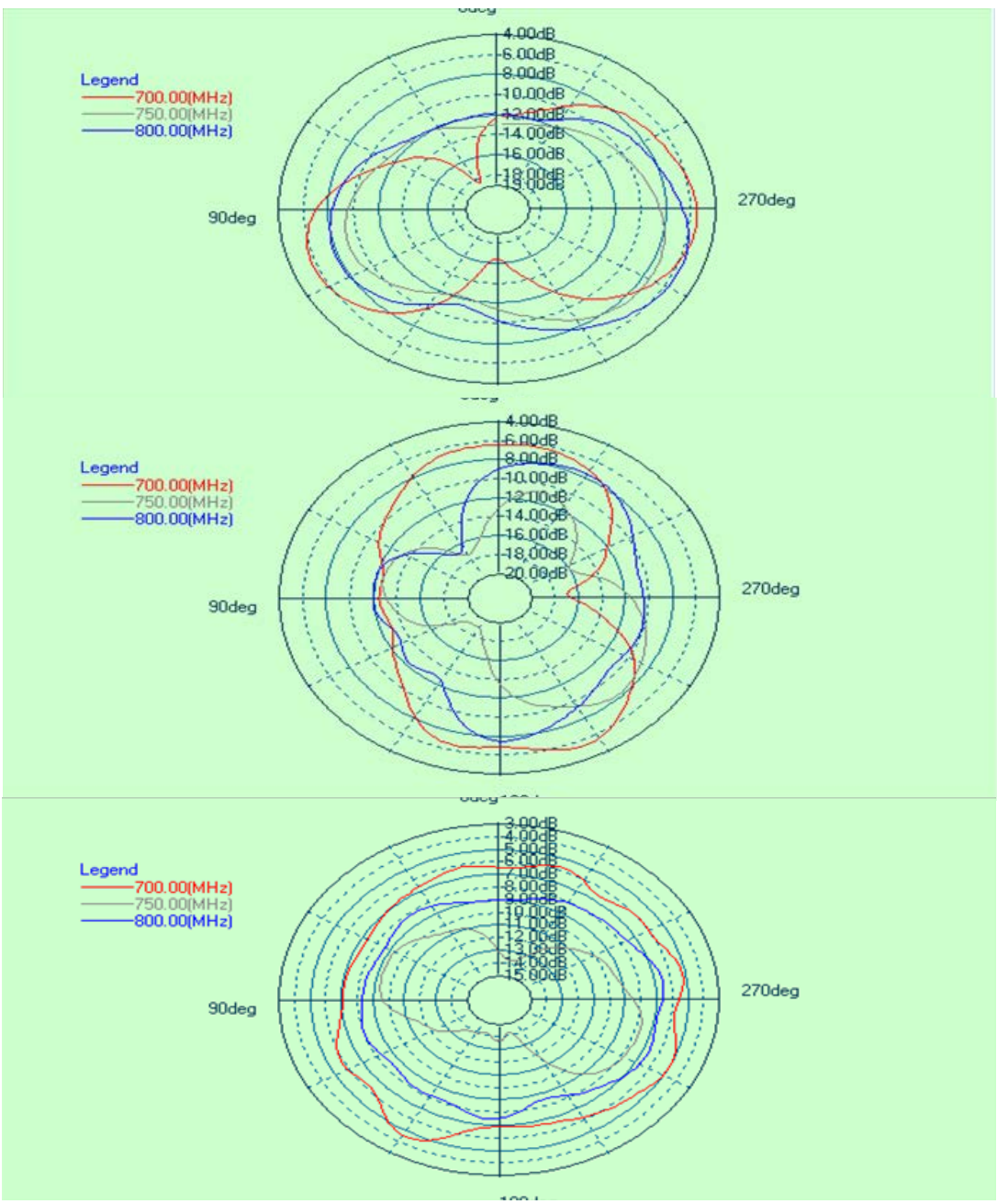
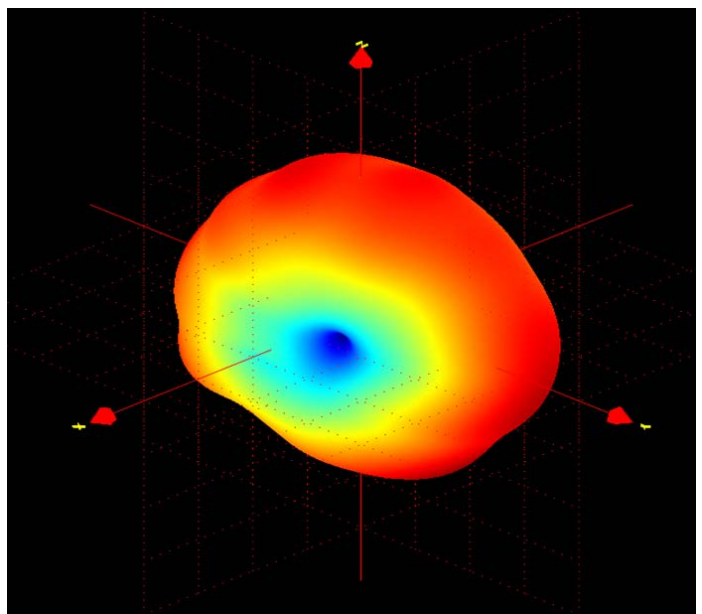
All of Implementation antenna
Main antenna(Antenna Label:A):
LTE B5/B12/B17/B26/B41/B71 RX&TX
WCDMA B5 RX&TX
GSM B5/B8 RX&TX
DIV antenna(Antenna Label:B):
LTE B2/B4/B25/B66 RX&TX
WCDMA B2/B4 RX&TX
GSM B2/B3 RX&TX
WiFi/BT 2.4-2.5G/5.1-5.85G
GPS: 1575.42 MHz
Antenna Max. Peak Gain:
GSM850:-2.35dBi
PCS1900:-1.65dBi
W2:-1.65dBi
W4:0.13dBi
W5:-2.35dBi
LTE-B2:-1.65dBi
LTE-B4:0.13dBi
LTE-B5:-2.35dBi
LTE-B12:-2.31dBi
LTE-B17:-4.54dBi
LTE-B25:-1.65dBi
LTE-B26:-2.35dBi
LTE-B66:0.13dBi
LTE-B71:-2.31dBi
LTE-B41:-2.00dBi
WIFI (5G) :1.98dBi
WIFI (2.4G) :1.05dBi
BT:1.05dBi
GPS:-1.64dBi

2.3 Main antenna Peak Gain(603~700M)



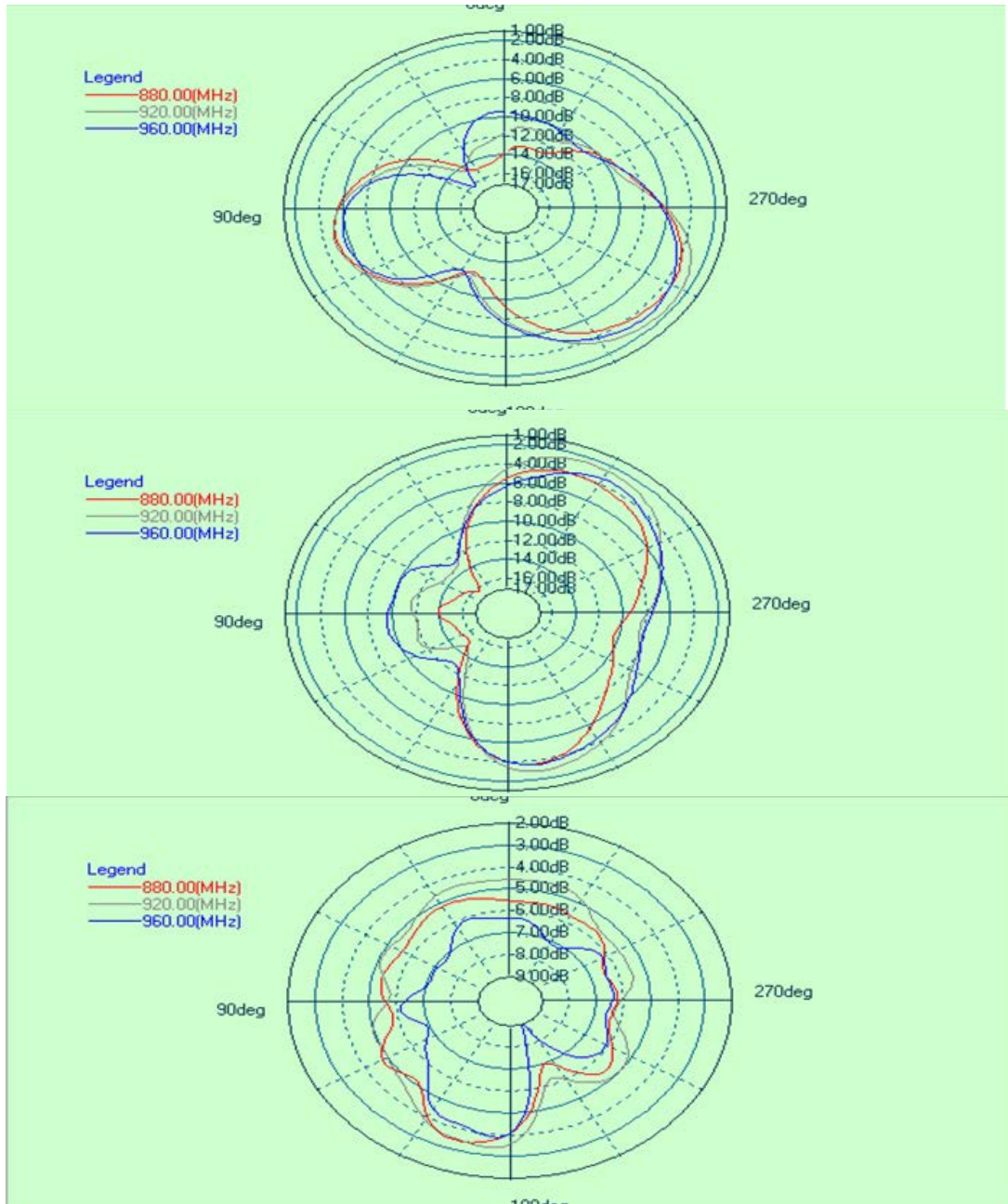
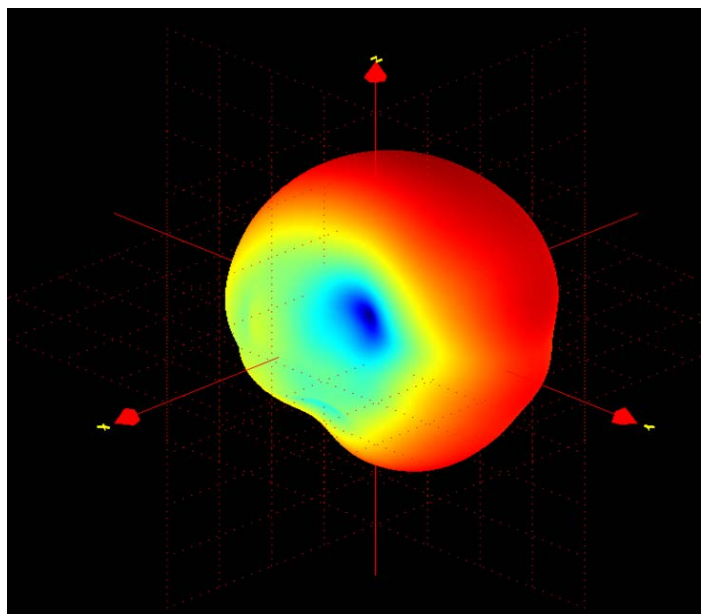
Freq.(MHz)	Peak .Gain (dBi)	Effi.(%)
600	-2.31	24

2.3 Main antenna Peak Gain(700~800M)



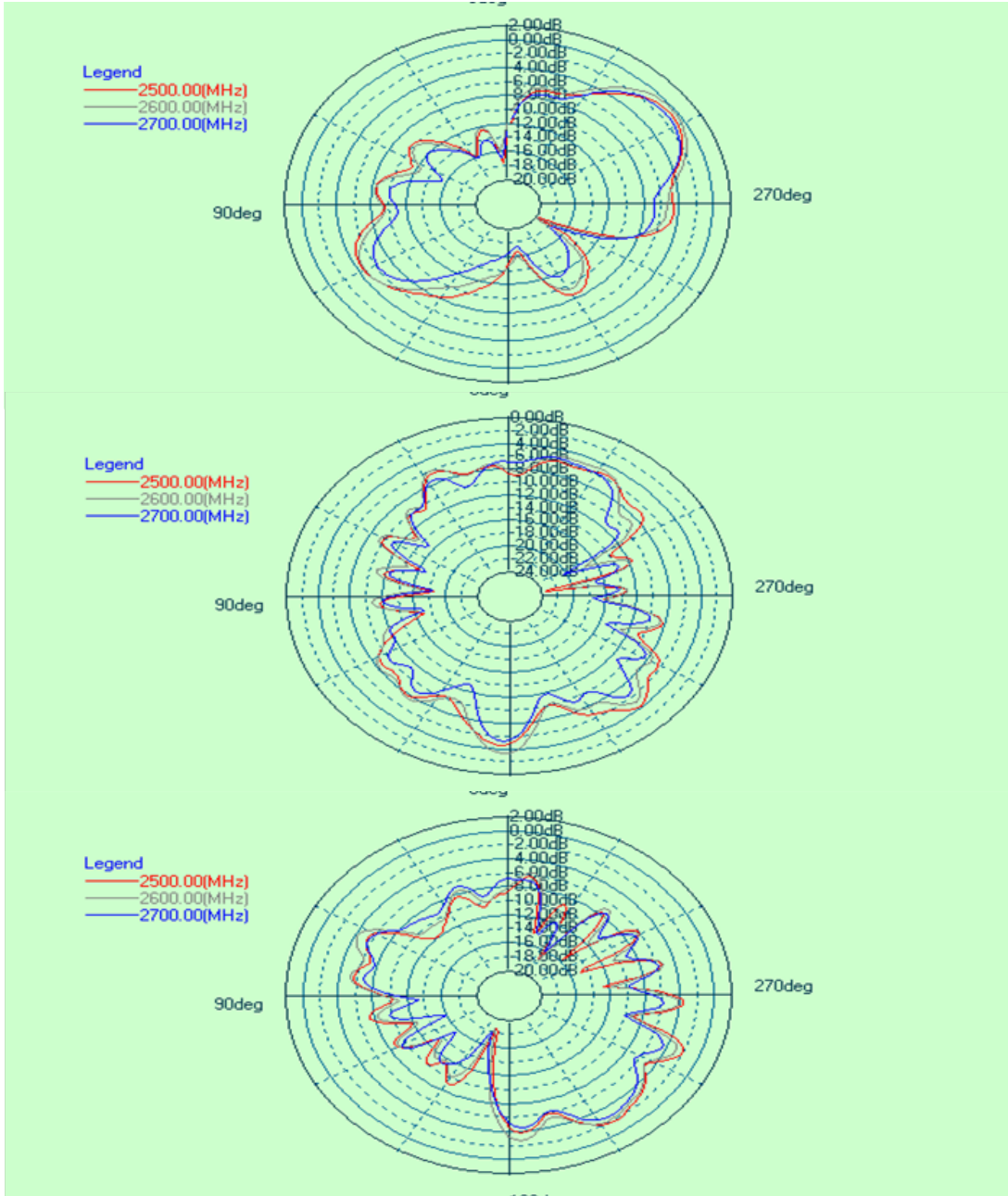
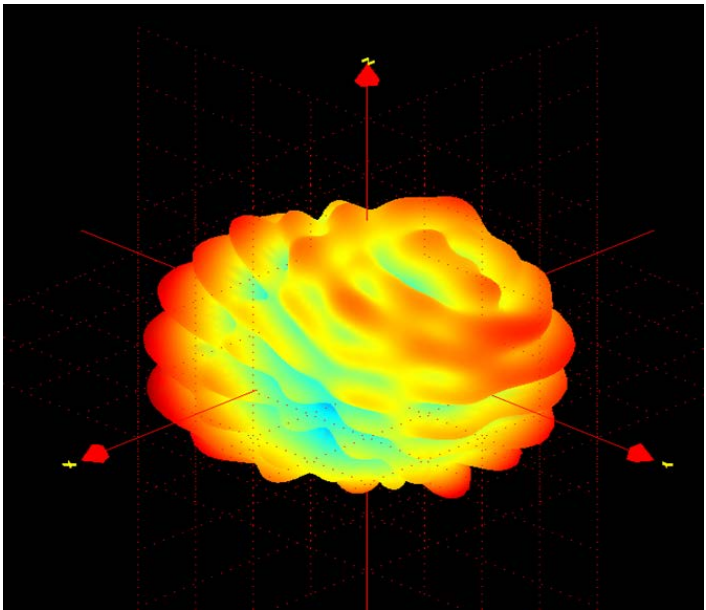
Freq.(MHz)	Peak .Gain (dBi)	Effi.(%)
700	-4.54	23

2.3 Main antenna Peak Gain(880~960M)



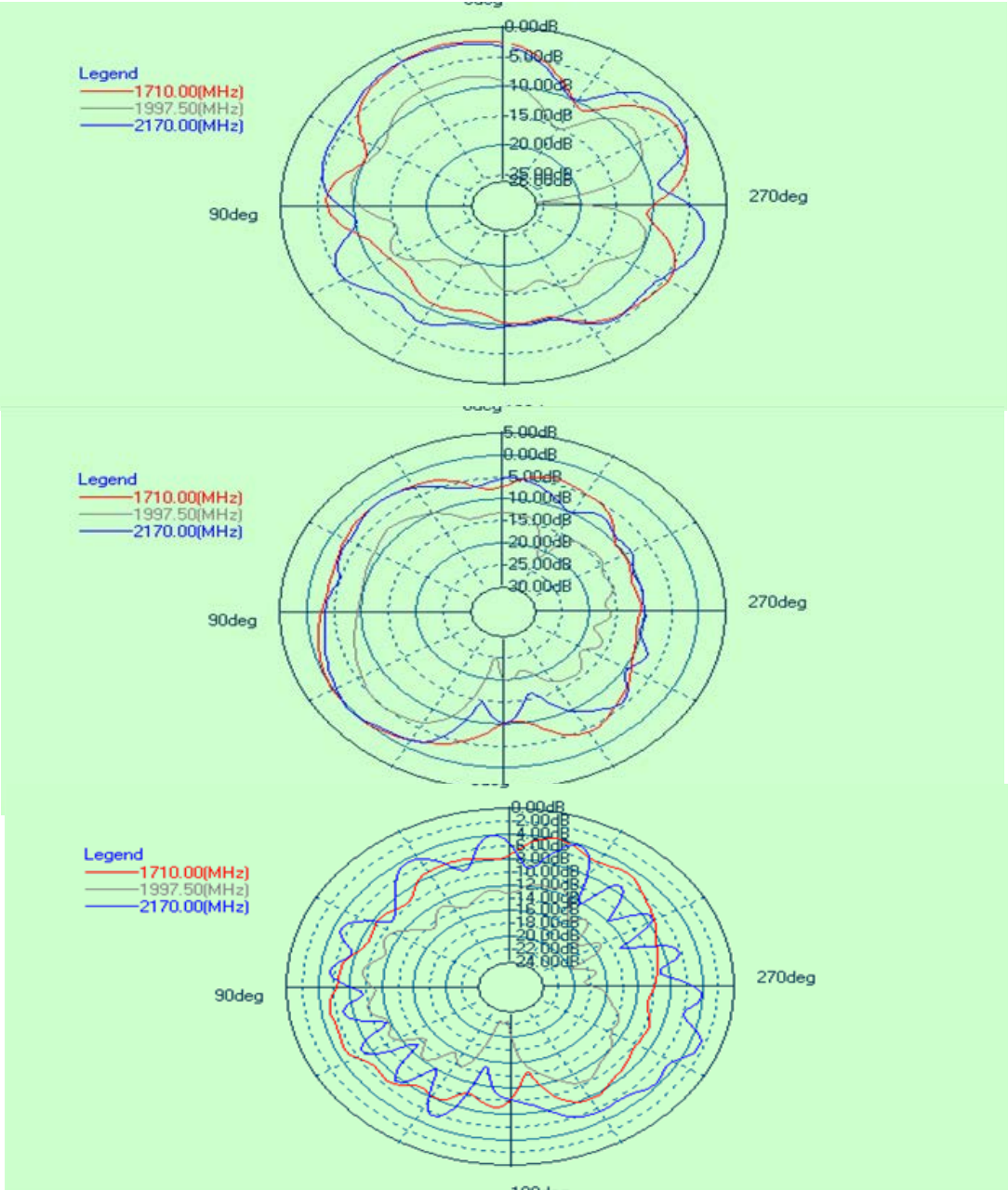
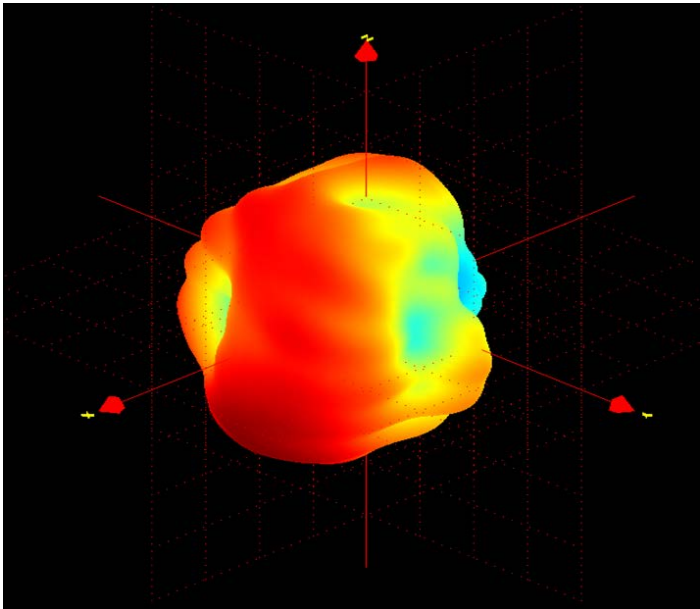
Freq.(MHz)	Peak .Gain (dBi)	Effi.(%)
920	-2.35	25

2.3 Main antenna Peak Gain(2500~2700M)



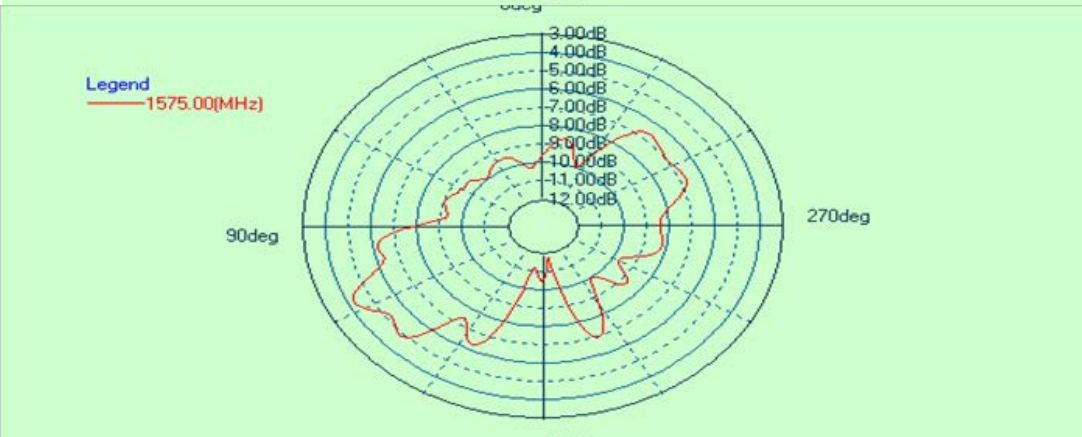
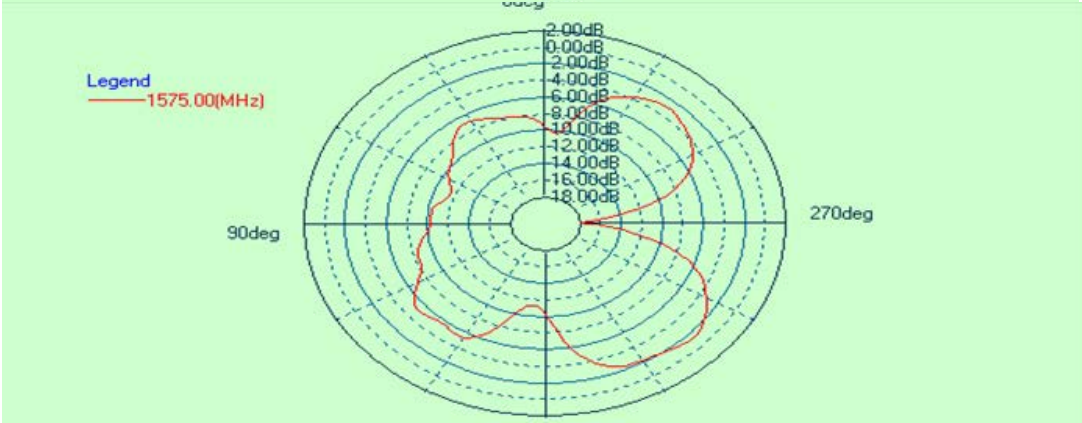
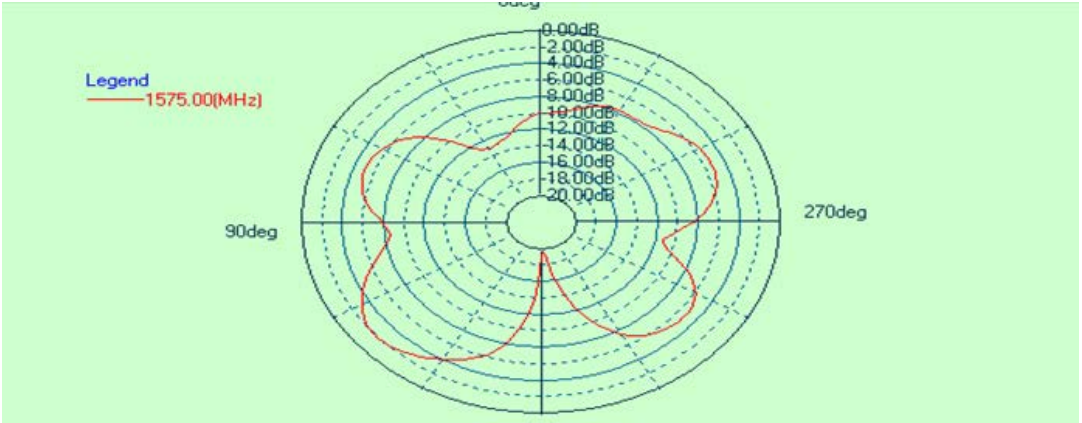
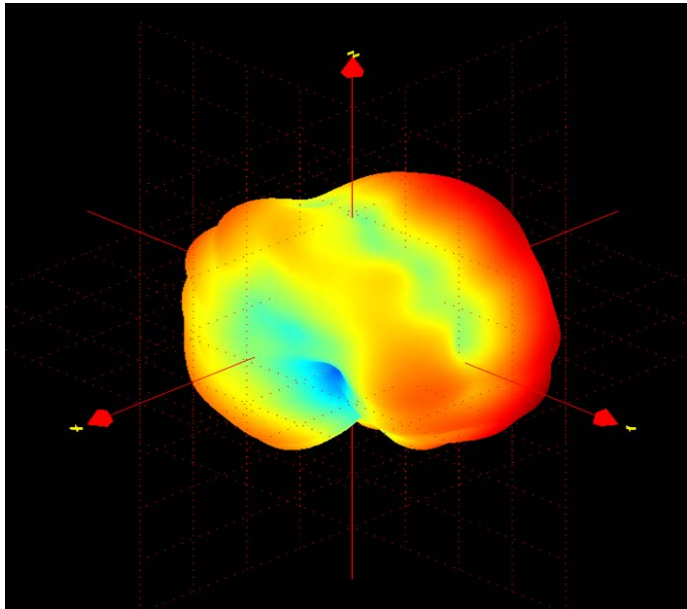
Freq.(MHz)	Peak .Gain (dBi)	Effi.(%)
2600	-2.00	23

2.3 DIV antenna Peak Gain(1710~2170M)



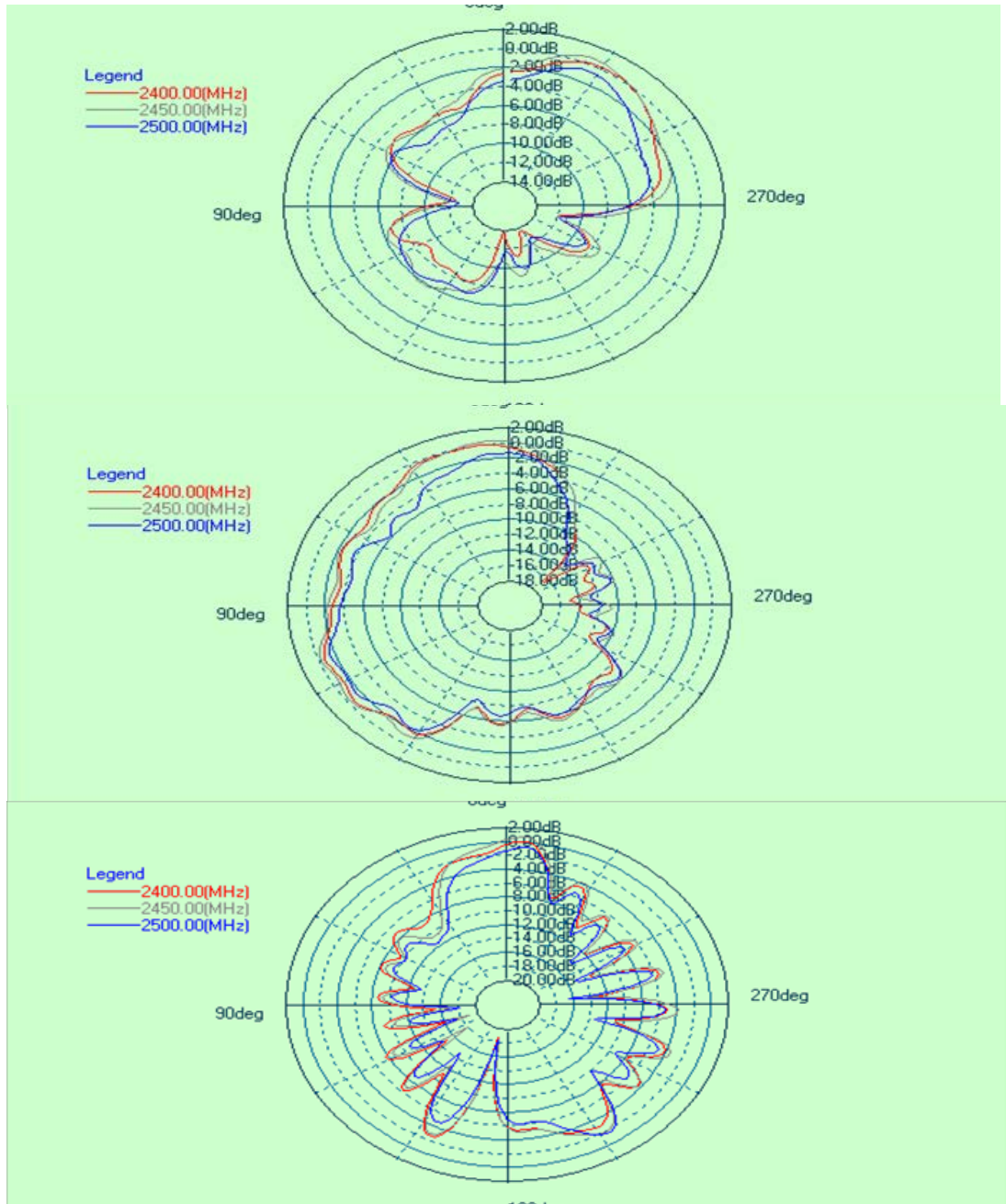
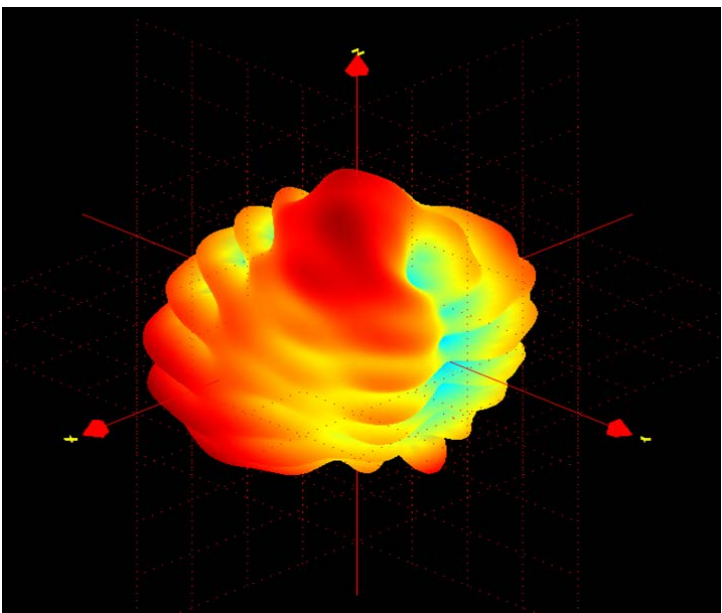
Freq.(MHz)	Peak .Gain (dBi)	Effi.(%)
1710	0.13	29

2.3 G/W/B antenna Peak Gain(1575M)



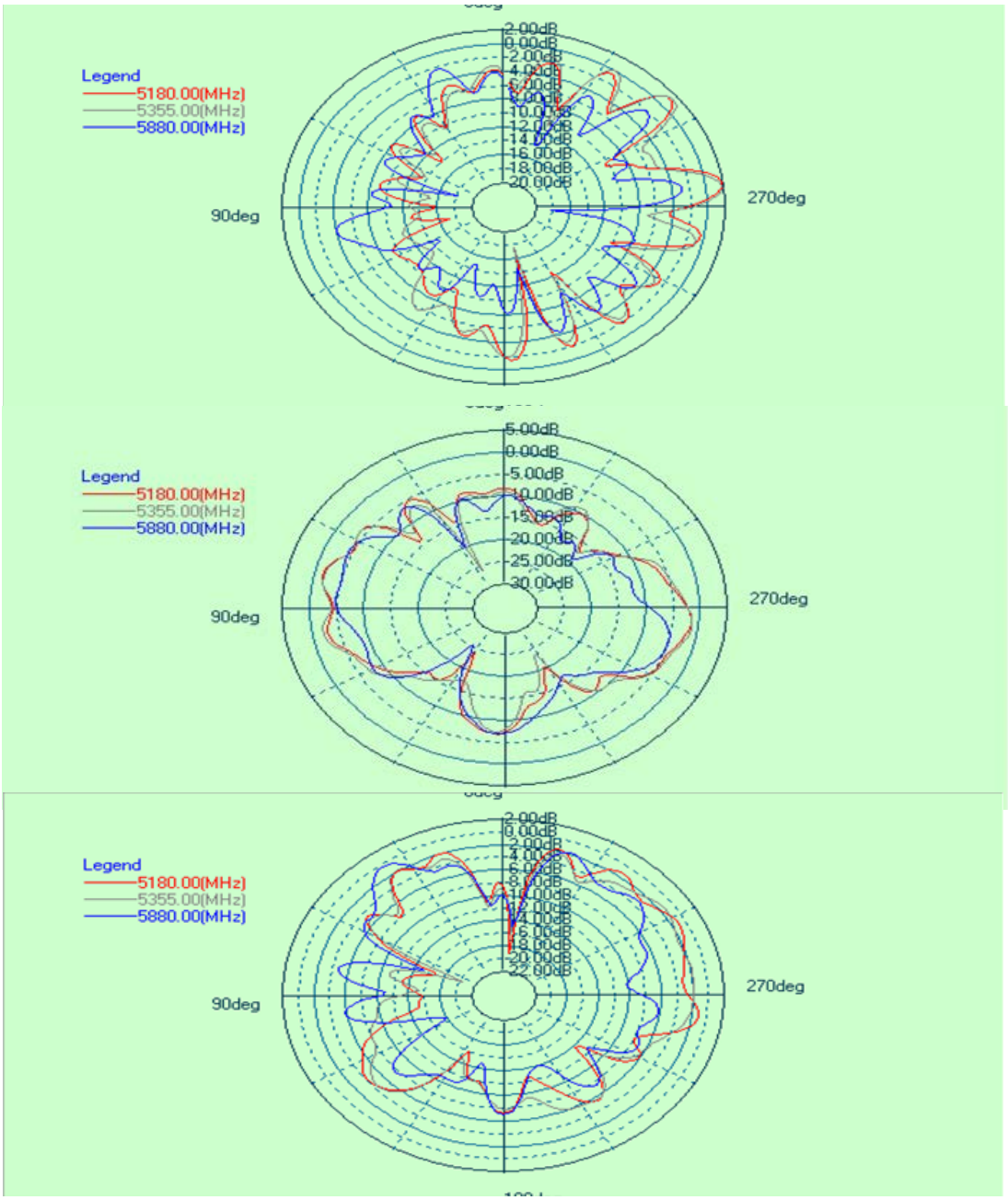
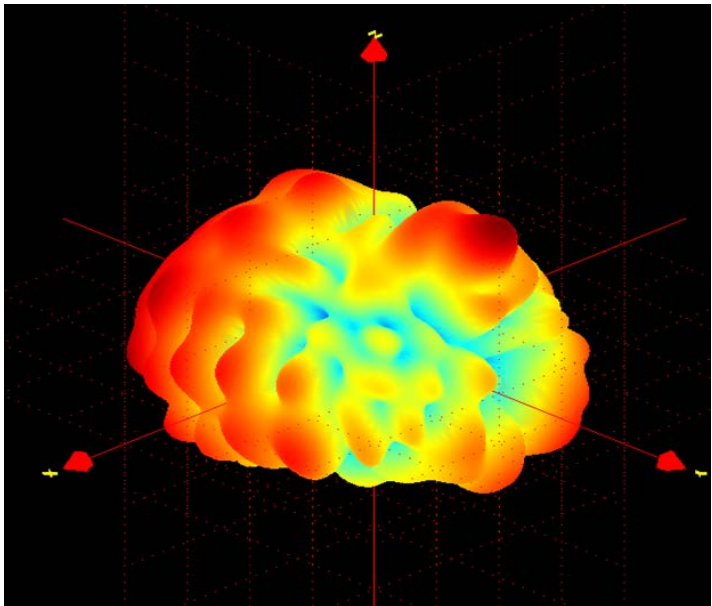
Freq.(MHz)	Peak .Gain (dBi)	Effi.(%)
1575	-1.64	31

2.3 G/W/B antenna Peak Gain(2400-2500M)



Freq.(MHz)	Peak .Gain (dBi)	Effi.(%)
2450	1.05	33

2.3 G/W/B antenna Peak Gain(5100-5800M)



Freq.(MHz)	Peak .Gain (dBi)	Effi.(%)
5180	1.98	26