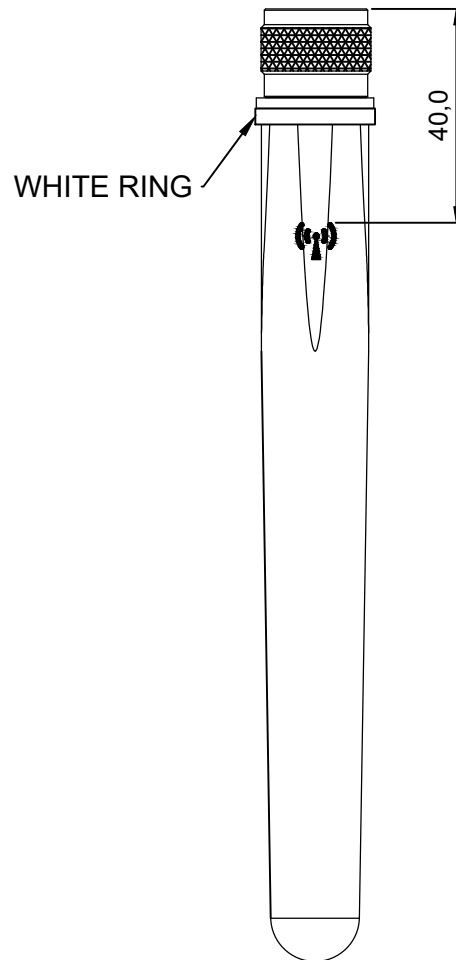
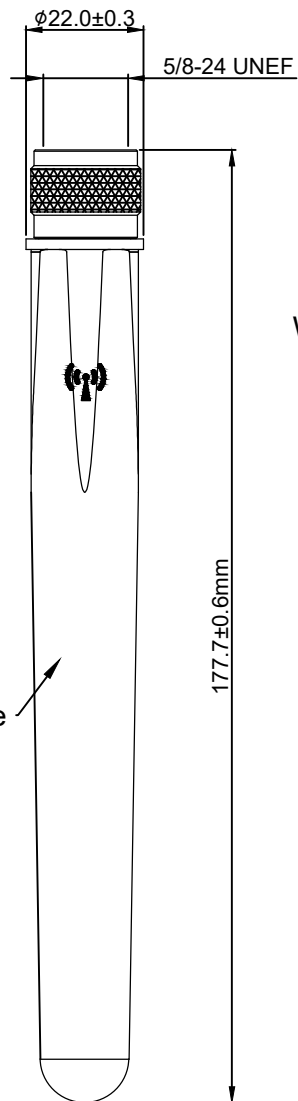


Parts Specification Cover

Customer	Wistron Neweb Corporation
WNC P/N	08.21036.005
Supplier	Grand-Tek Technology CO. LTD
Brand	
Supplier P/N	1036G00001160
Revision	X1

MFG	ADDRESS	TEL
Site 1 : Factory Name	8F, No 233-2, Bao Ciao Rd., Sin Dian Dist, New Taipei City,23145, Taiwan (R.O.C.)	02-29177353
Site 2 : Factory Name		
Site 3 : Factory Name		

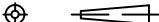
approval	reviewer	prepared
Mark	Jason	Gene



Electrical Specification			
Frequency Range	617MHz~960MHz	1710MHz - 2170MHz	2300MHz - 2690MHz
Polarization	Linear, Vertical		
HPBW-Horizontal	360°		
HPBW-Vertical	90°		
Peak Gain	1.8 dBi Max.	3.2 dBi Max.	2.2 dBi Max.
Efficiency	21% Min.	49% Min.	46% Min.
VSWR	4.0 Max.:1		
Impedance	50 Ohms		
Connector	N plug		

Environmental & Mechanical Characteristics	
Temperature	-40°Cto 70°C
Humidity	95% @ 55°C
Radome color	White
Radome material	ASA
Weight	60gw
Dimensions	Φ 22 x 177.7mm

REACH
RoHS

UNLESS OTHERWISE SPECIFIED TOLERANCE : X.X ±0.3 X.XX ±0.15		ANGLES : ±2° DO NOT SCALE DRAWING		 榮昌科技股份有限公司 GRAND-TEK TECHNOLOGY CO., LTD.			
Designed BY	Jason_Hsu			TITLE	Antenna,LTE,Omni Directional,B71, N Plug,With White Ring	G00140	
DRAWN BY	Gene						
CHECKED BY	Eric						
APPROVED BY	Mark			SIZE A3	UNIT mm	PART NO. 08.21036.005	REV. X1
Type No.	-			SCALE 1:1	THIRD ANGLE PROJECTION 		PAGE 1 OF 4
				ITEM NO. 1036G00001160		DATE 2023-06-06	

Outdoor IP-67 OMNI Antenna For B71+LTE Wide Band

617~960 / 1710~2170 / 2300~2690 MHz

GTT P/N: 1036G00001160

Final



✓ RF Specification

- Frequency Range: 617~960 / 1710~2170 / 2300~2690 MHz
- Polarization: Linear, Vertical
- HPBW / Horizontal: 360°
- HPBW / Vertical: 90 °
- Peak Gain: 1.8 dBi Max. / 3.2 dBi Max. / 2.2 dBi Max.
- Efficiency: 21% / 49% / 46% Min.
- VSWR: 4.0 Max.:1
- Power Handling: 2W(cw)
- Impedance: 50 Ohms
- Connector: N Plug

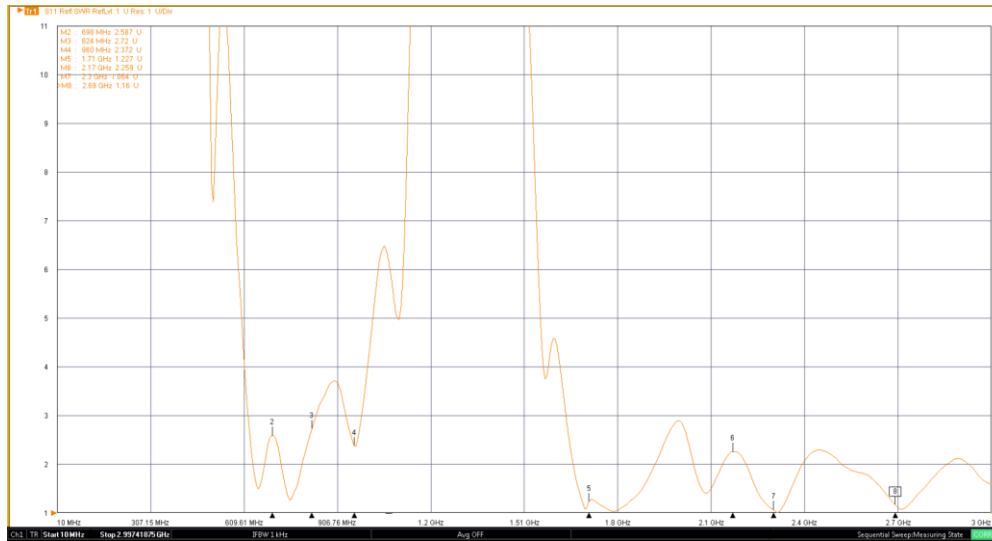
✓ Environmental & Mechanical Characteristics

- Temperature: -40°C to +70°C
- Humidity: 95% @55°C
- Antenna Housing Color: White
- Antenna Ring : White
- Antenna Housing Material: ASA
- Weight : 60.5 g
- Dimensions: 178.0(L)x22.0(OD)mm

Performance Summary

VSWR

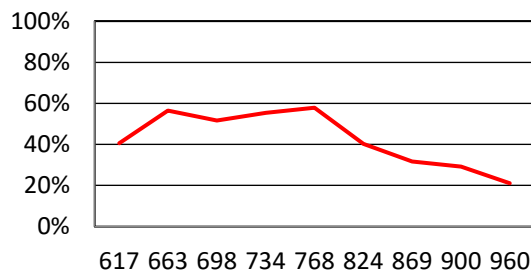
Frequency(MHz)	617~960	1710~2170	2300~2690
VSWR	4.0 Max. : 1		



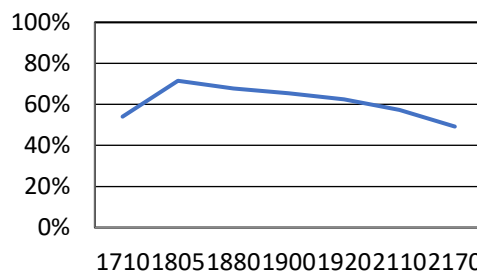
Gain Table

EFFICIENCY

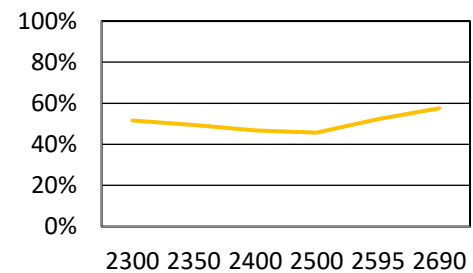
617MHz~960MHz



1710MHz~2170MHz

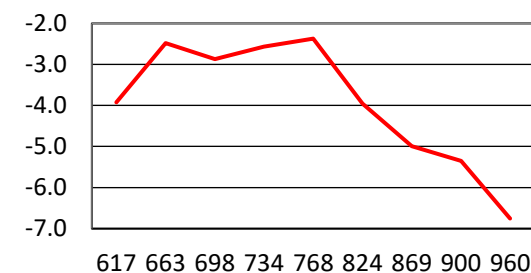


2300MHz~2690MHz

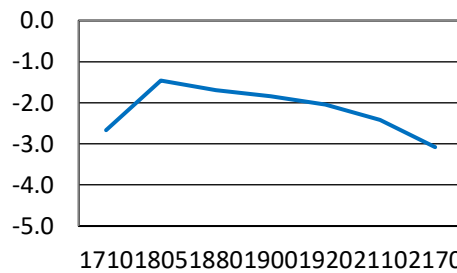


Average Gain

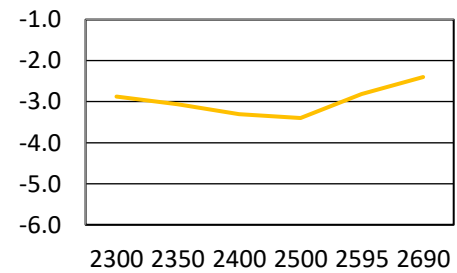
617MHz~960MHz



1710MHz~2170MHz

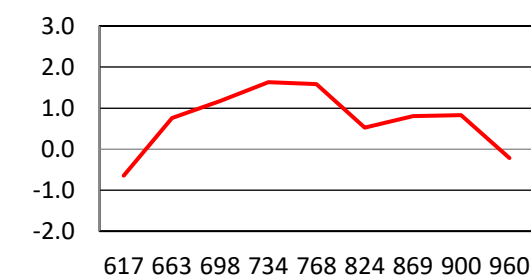


2300MHz~2690MHz

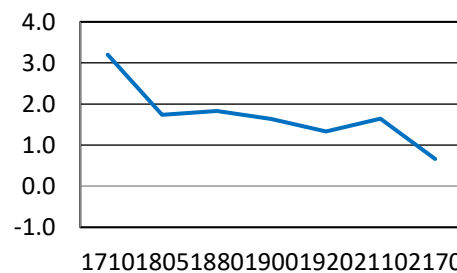


Peak Gain

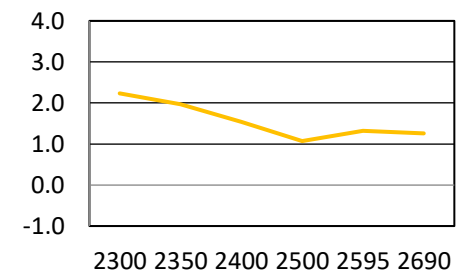
617MHz~960MHz



1710MHz~2170MHz



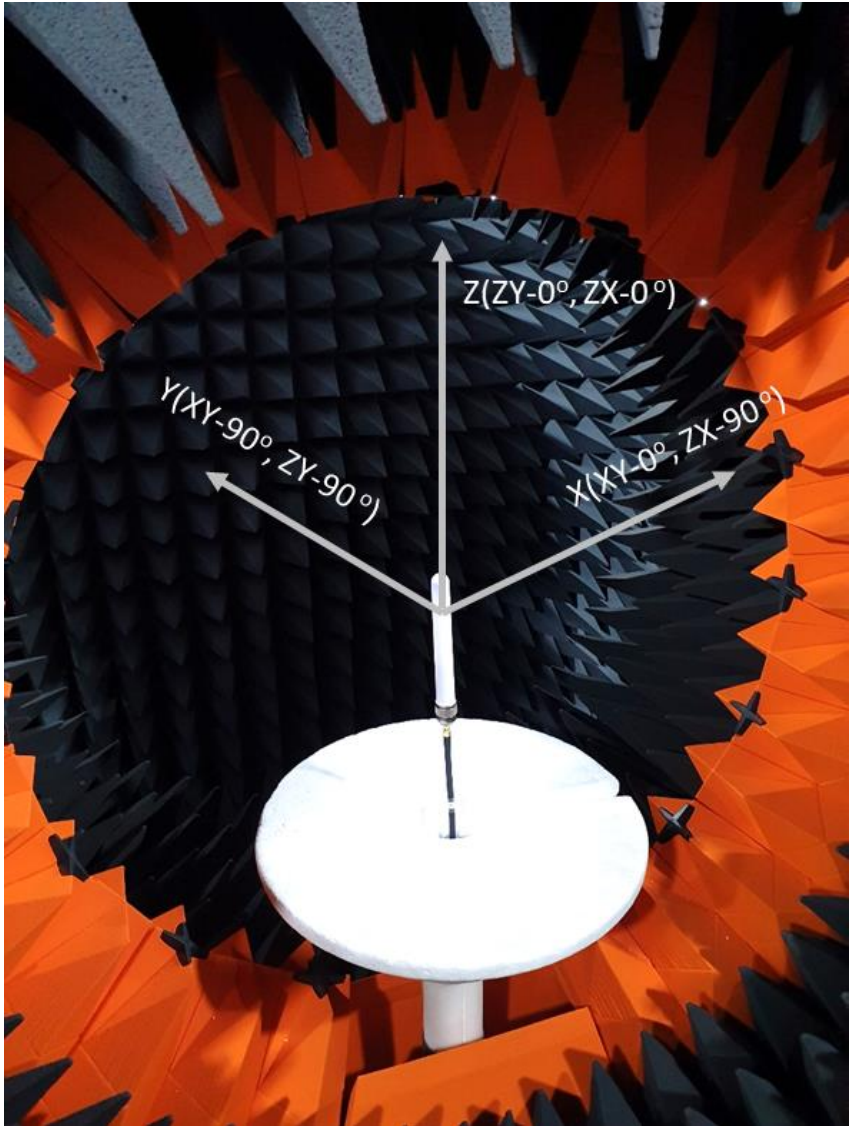
2300MHz~2690MHz



Gain table

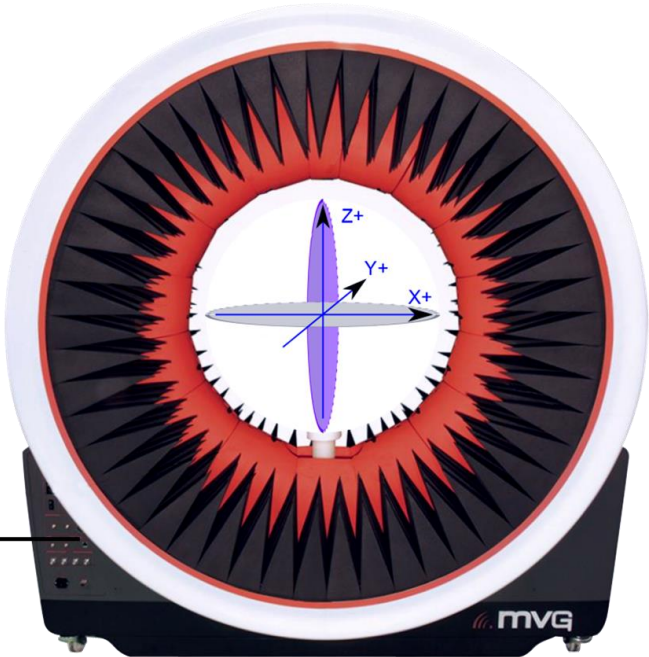
Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
617	41%	-3.9	-0.6
652	55%	-2.6	0.6
663	57%	-2.5	0.8
698	52%	-2.9	1.2
710	52%	-2.9	1.4
734	55%	-2.6	1.6
751	59%	-2.3	1.8
768	58%	-2.4	1.6
798	49%	-3.1	1.1
824	40%	-4.0	0.5
849	35%	-4.6	0.6
869	32%	-5.0	0.8
894	30%	-5.3	0.9
900	29%	-5.3	0.8
925	25%	-5.9	0.4
960	21%	-6.8	-0.2
1710	54%	-2.7	3.2
1805	71%	-1.5	1.7
1880	68%	-1.7	1.8
1900	65%	-1.8	1.6
1920	62%	-2.0	1.3
2110	57%	-2.4	1.6
2170	49%	-3.1	0.7
2300	52%	-2.9	2.2
2350	49%	-3.1	2.0
2400	47%	-3.3	1.5
2500	46%	-3.4	1.1
2595	52%	-2.8	1.3
2690	58%	-2.4	1.3

Antenna Testing Setup and Orientation

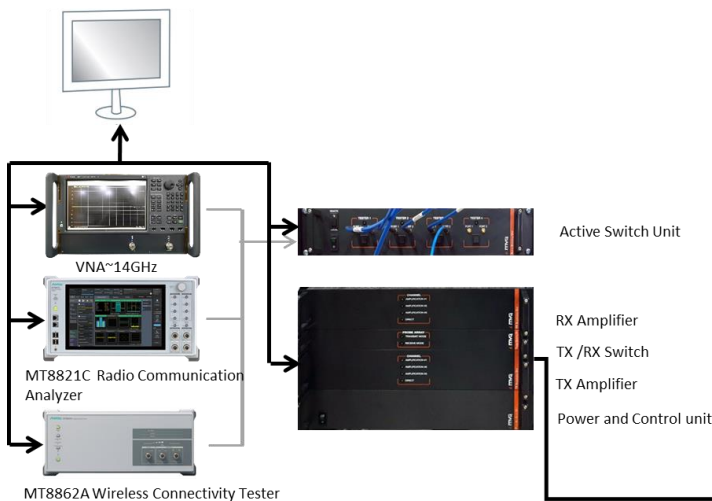


3D OTA Chamber-SATIMO Starlab® 2019

Polarization diagram

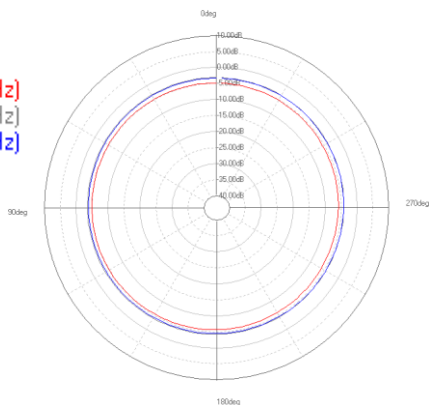


Satimo StarLab System

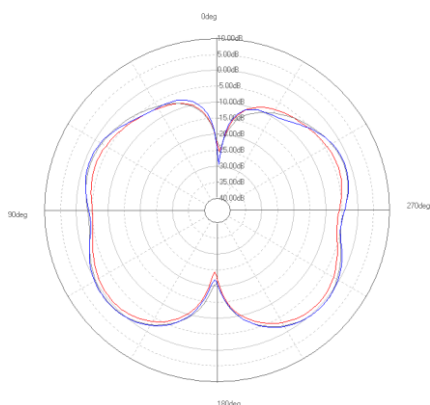


Radiation Pattern

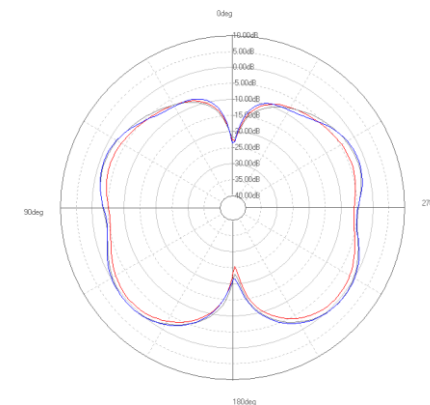
XY-plane



YZ-plane

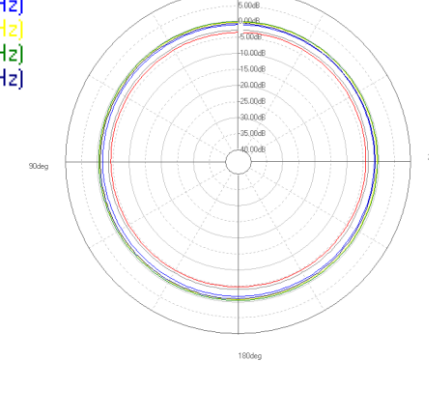


ZX-plane

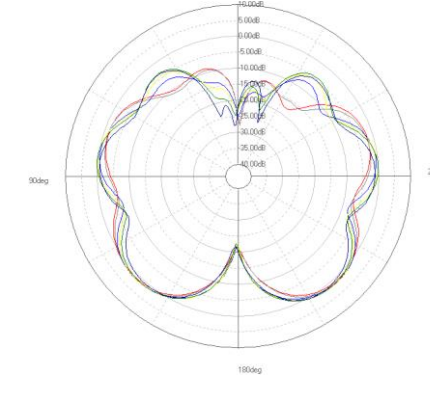


- Legend
- 617.00(MHz)
 - 652.00(MHz)
 - 663.00(MHz)

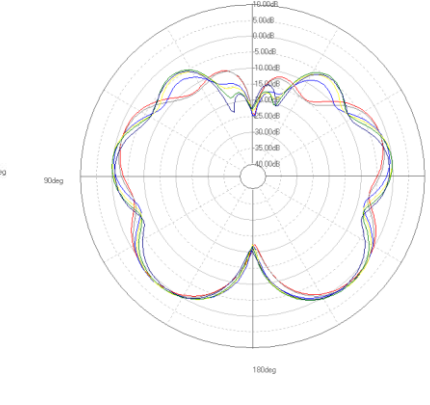
XY-plane



YZ-plane

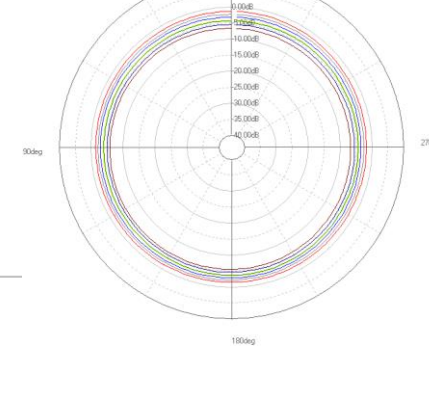


ZX-plane

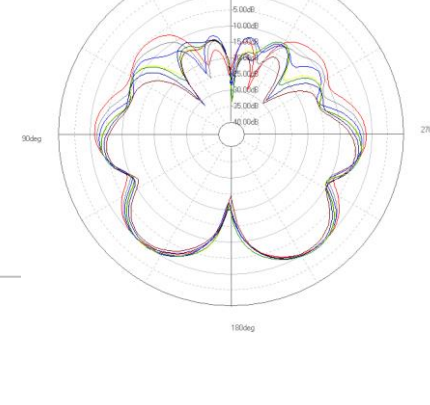


- Legend
- 698.00(MHz)
 - 710.00(MHz)
 - 734.00(MHz)
 - 751.00(MHz)
 - 768.00(MHz)
 - 798.00(MHz)

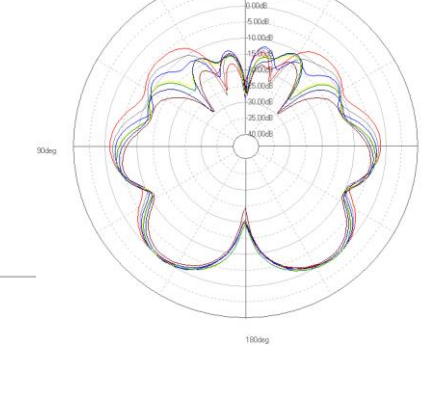
XY-plane



YZ-plane



ZX-plane



- Legend
- 824.00(MHz)
 - 849.00(MHz)
 - 869.00(MHz)
 - 894.00(MHz)
 - 925.00(MHz)
 - 960.00(MHz)

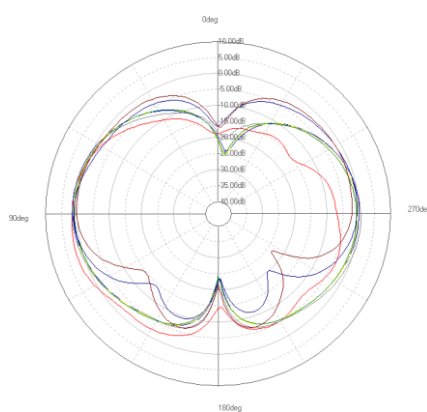
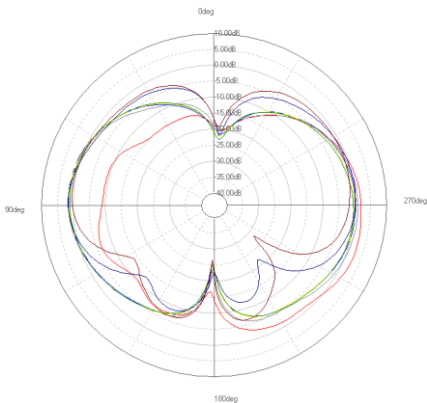
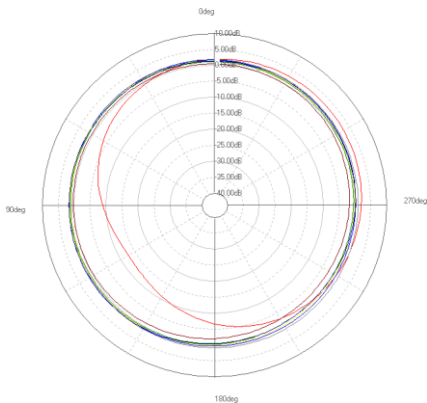
Radiation Pattern

XY-plane

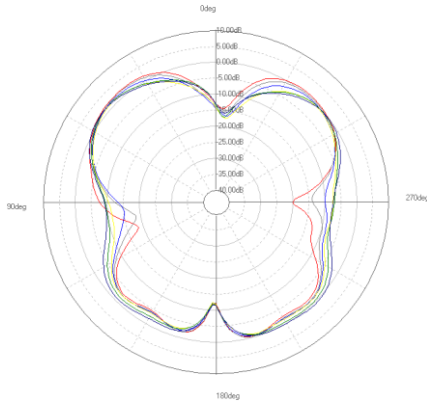
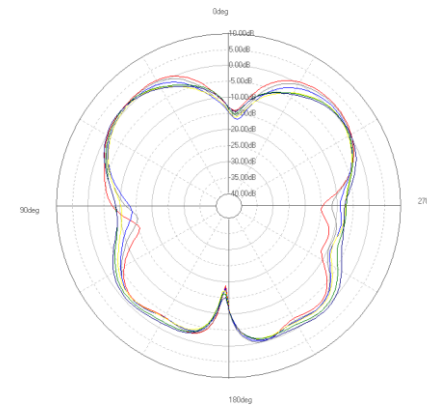
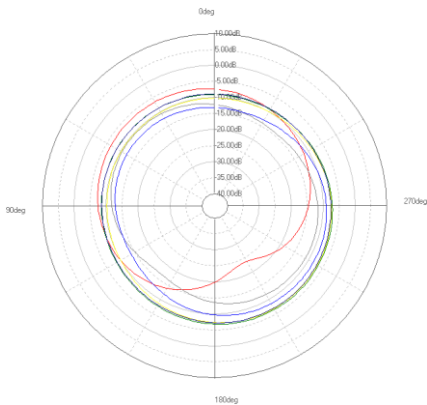
YZ-plane

ZX-plane

- Legend
- 1710.00(MHz)
 - 1805.00(MHz)
 - 1880.00(MHz)
 - 1920.00(MHz)
 - 2110.00(MHz)
 - 2170.00(MHz)



- Legend
- 2300.00(MHz)
 - 2350.00(MHz)
 - 2400.00(MHz)
 - 2500.00(MHz)
 - 2595.00(MHz)
 - 2690.00(MHz)



Dimension(unit: mm)

