

SPECIFICATION FOR APPROVAL

Manufacture Name	Baiao Electronics Technology Co., Ltd.
Product Name	WIFI Antenna
Antenna Type:	Array Antenna
Part Number:	RN-117-01_5.8G
Date:	2024-12-13
Specifications:	5.8GHz Antenna , RG-178 Brown wire*0.18M, 90°MMCX(M)

Customer check

Engineering Department	Quality department	Approved

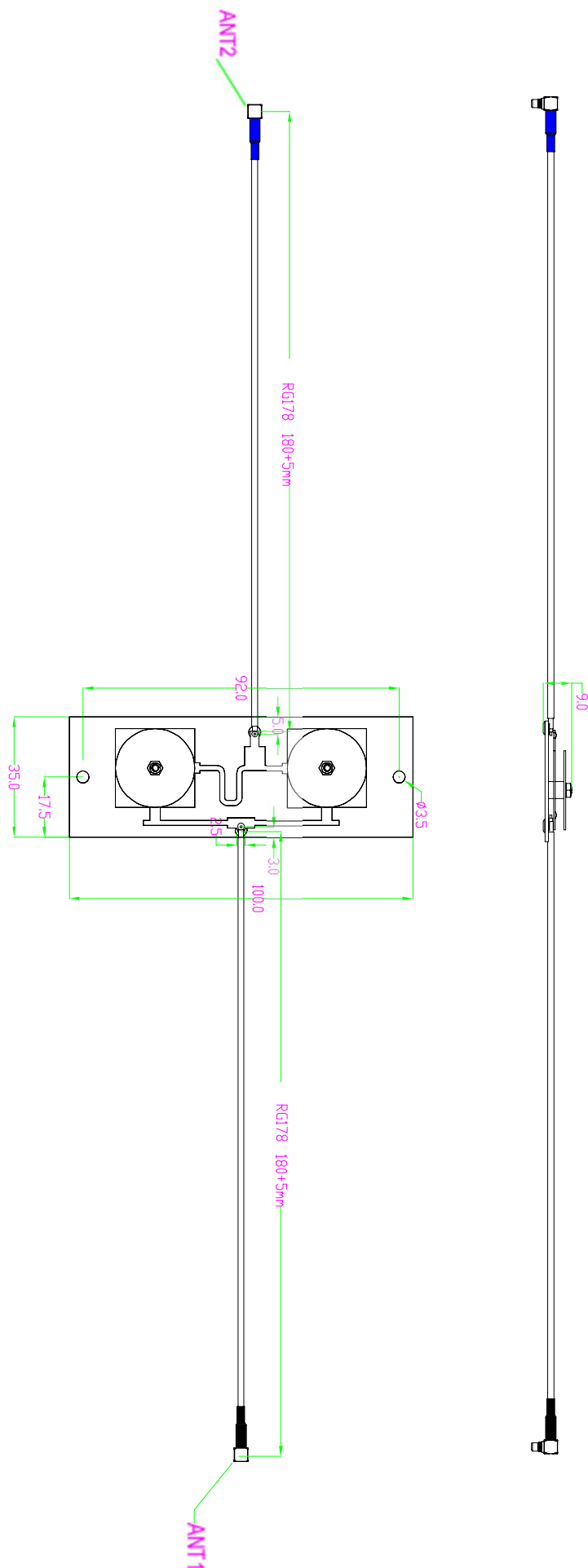
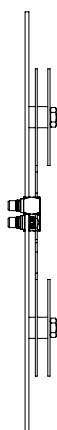
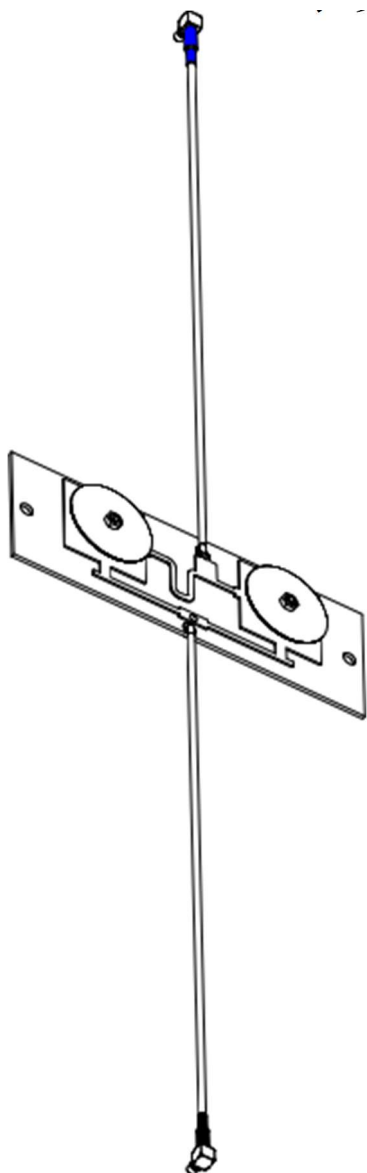
Baiao Electronics Technology Co ,Ltd

Engineering Department	Quality department	Approved



SPECIFICATION

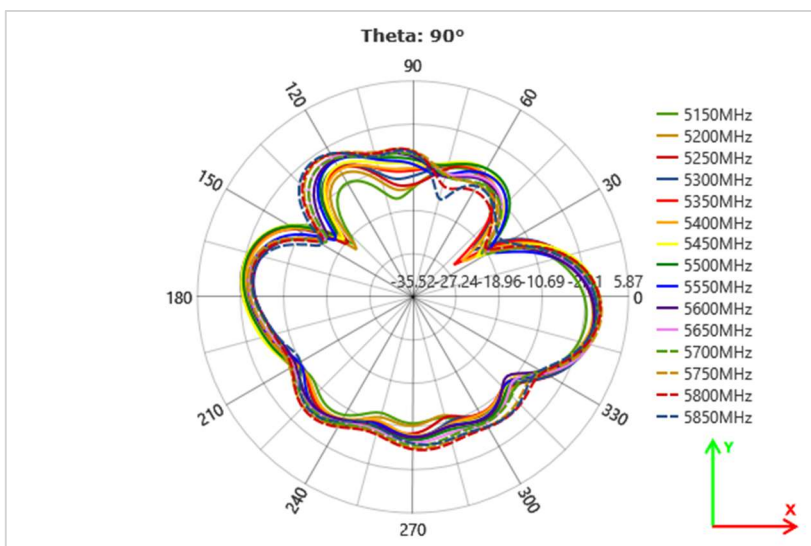
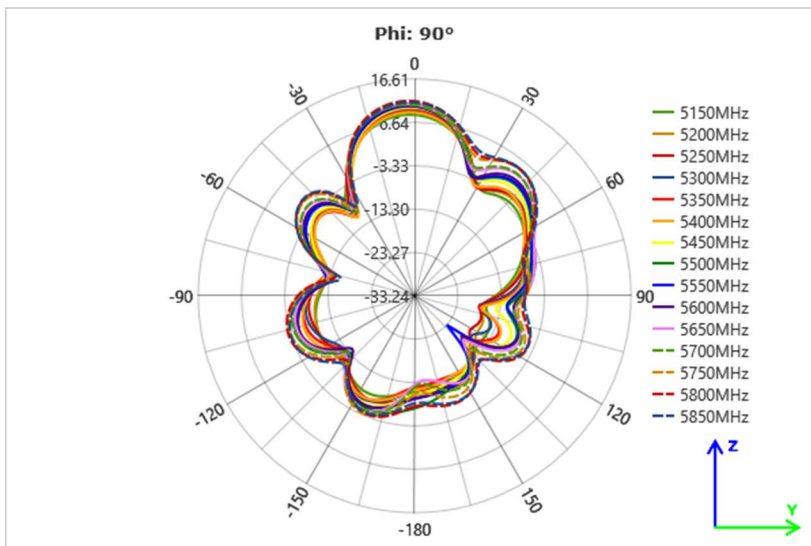
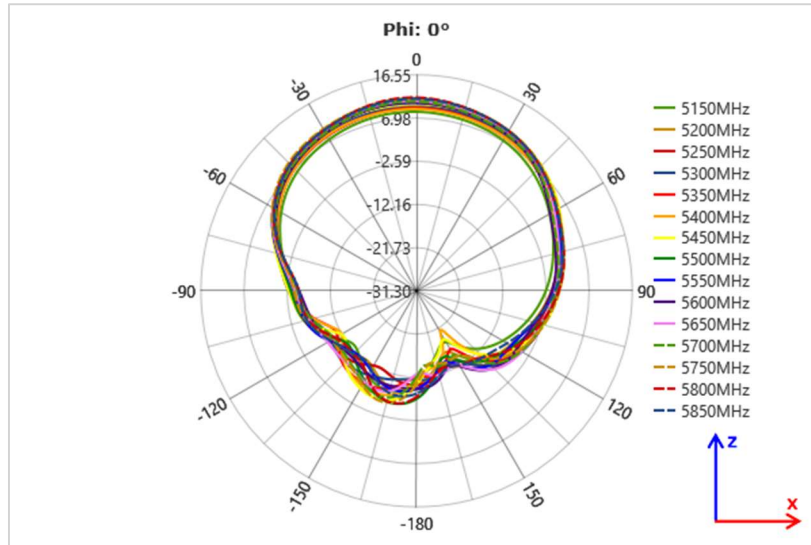
1. Description	WIFI Antenna
2. Mechanical Characteristics	
Connector	90°MMCX Jack
Cable	RG-178
Color	Brown wire
Appearance	See attached drawing
3. Electrical Characteristics	
Operating Frequency	5.150-5.850GHz
Impedance	50 Ohm
V.S.W.R	2.0 Max
Polarization	
4. Operating Temperature	-40℃ ~ +85℃
5. Storage Temperature	-40℃ ~ +85℃

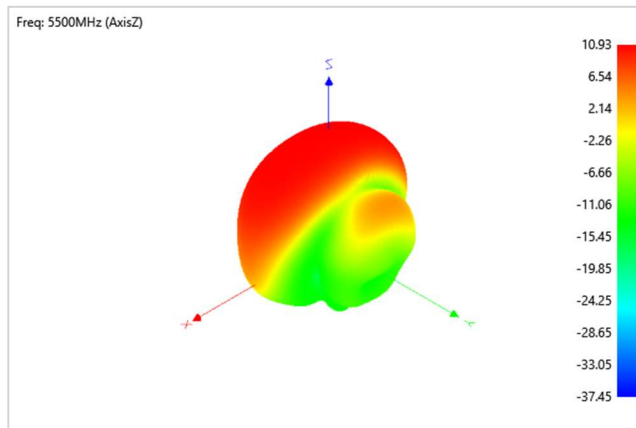
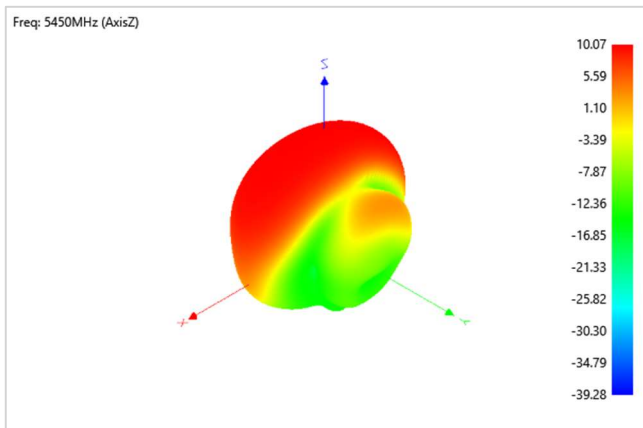
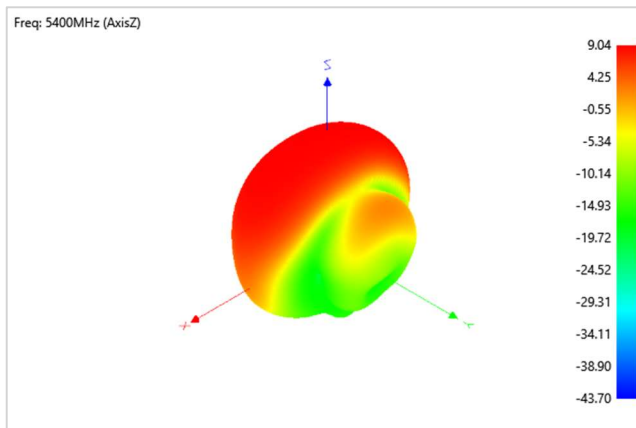
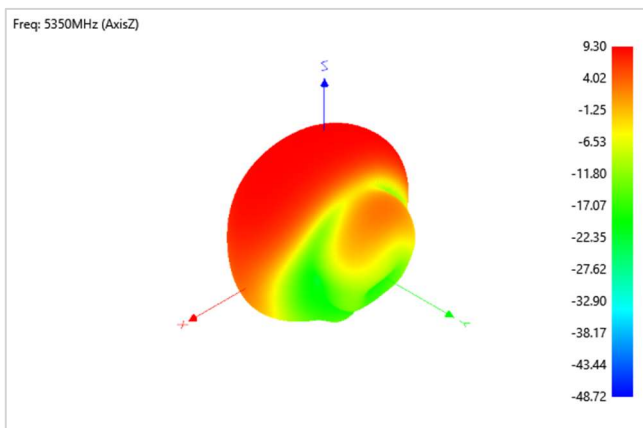
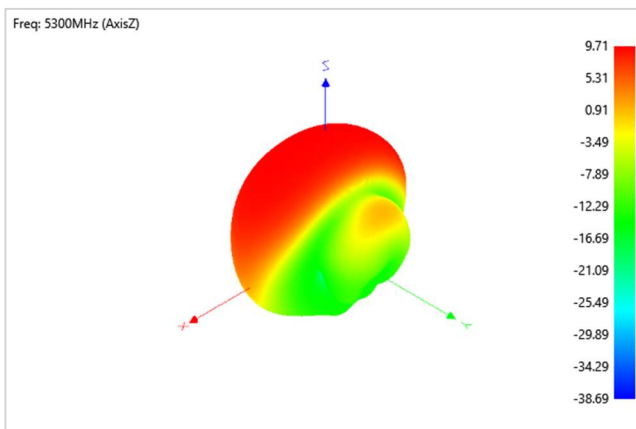
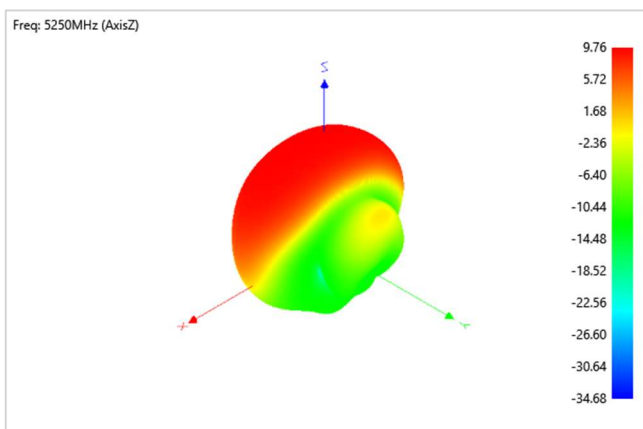
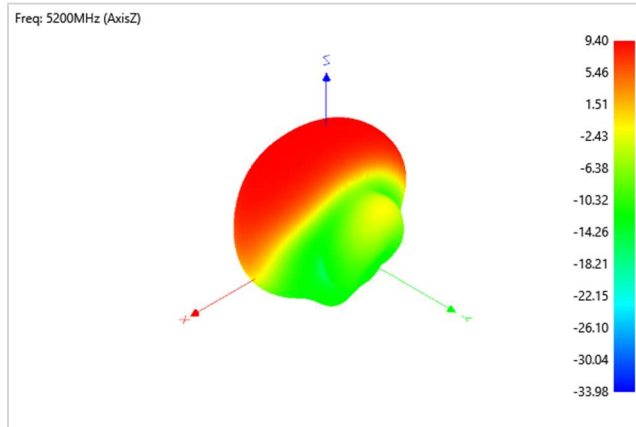
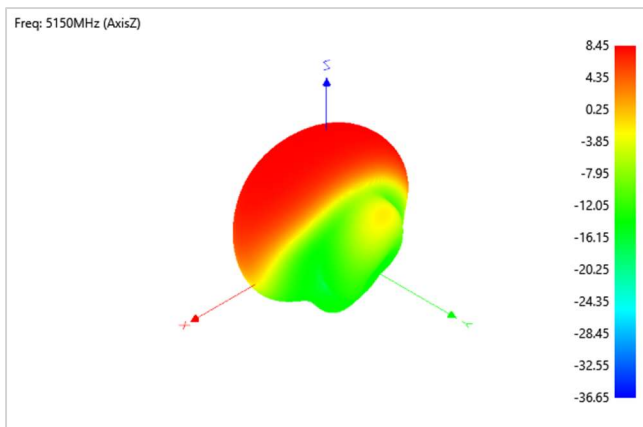


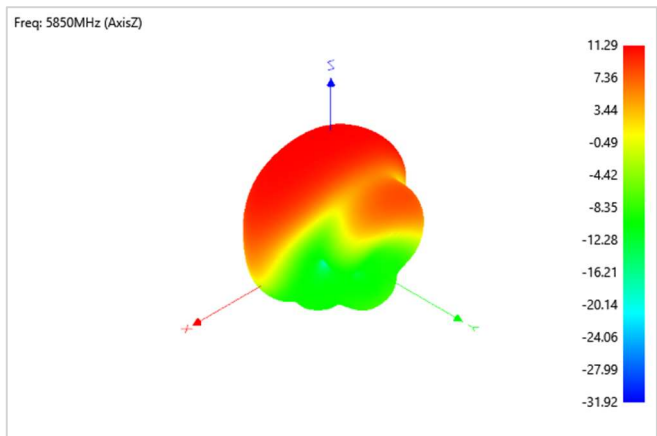
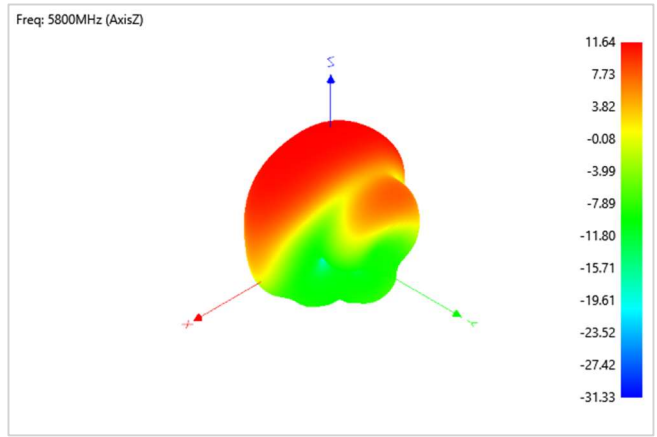
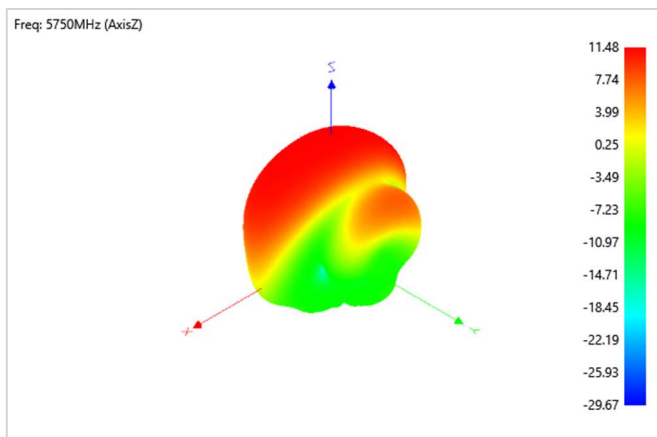
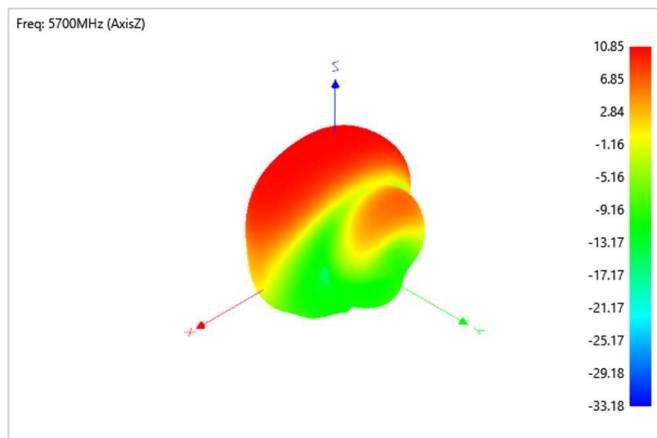
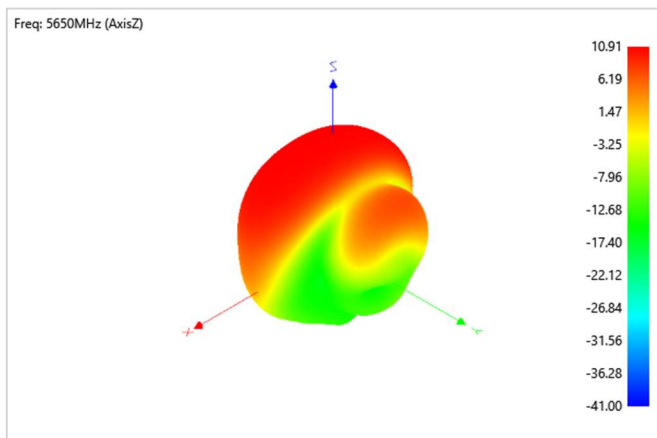
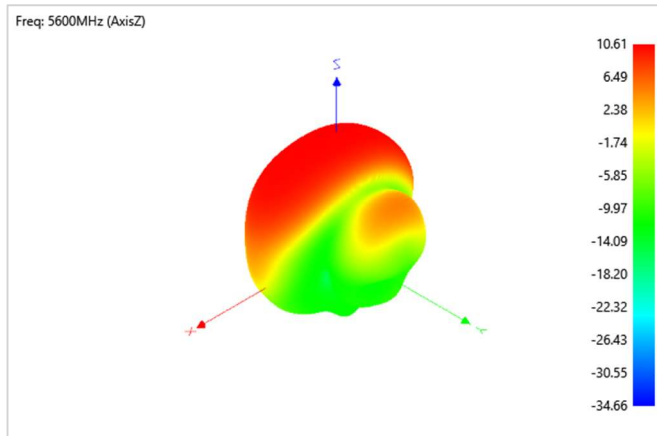
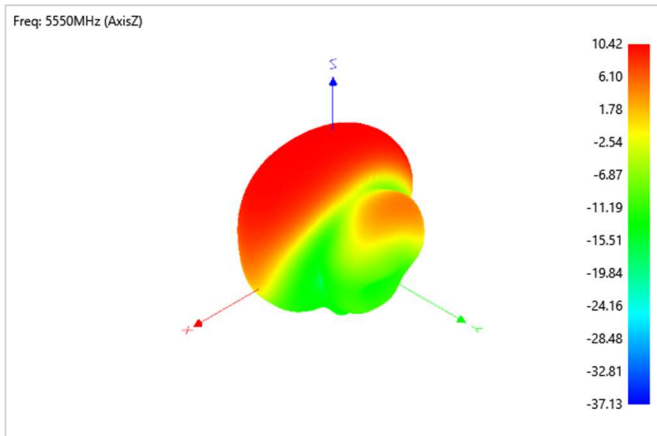
LECTRONICAL CHARACTERISTICS

ITEM		TEST CONDITION	SPECIFICATION
1	RETURN LOSS	Using Network Advantest to Measure Antenna S11 Return loss Characteristics	Graph1
2	VSWR	Using Network Advantest to Measure Antenna S11 VSWR Characteristics	Graph2
3	Radiation Pattern	Using OTA 3D Chamber to Measure Antenna Gain and Radiation Pattern	Graph3

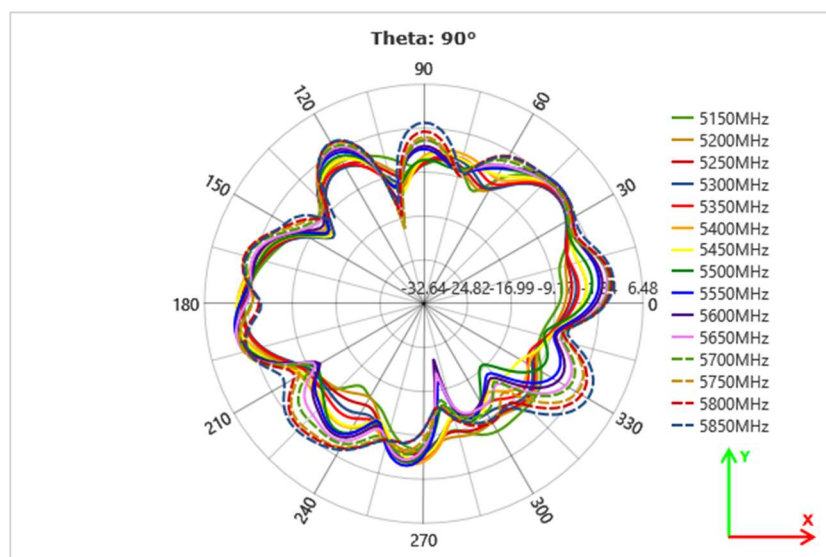
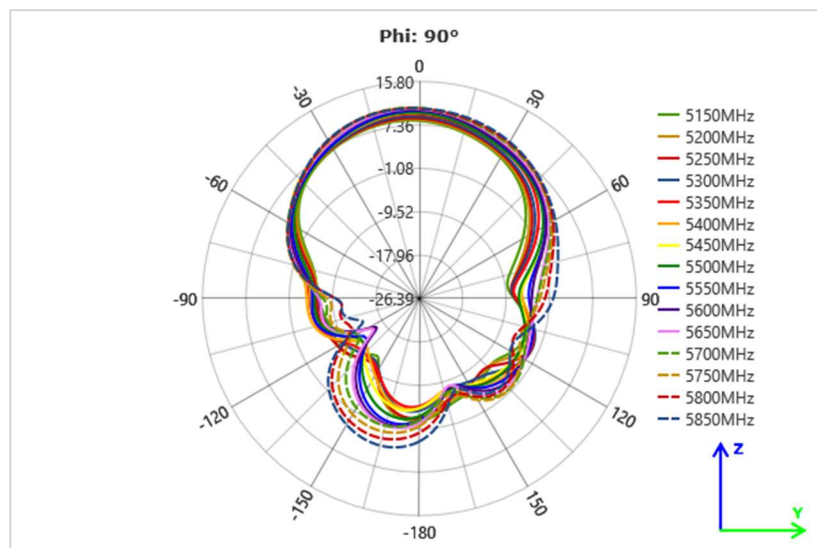
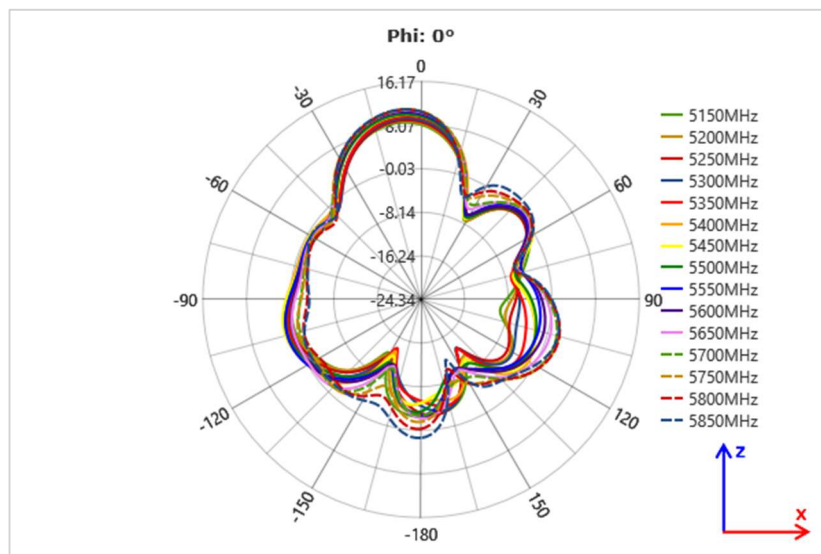
ANT1

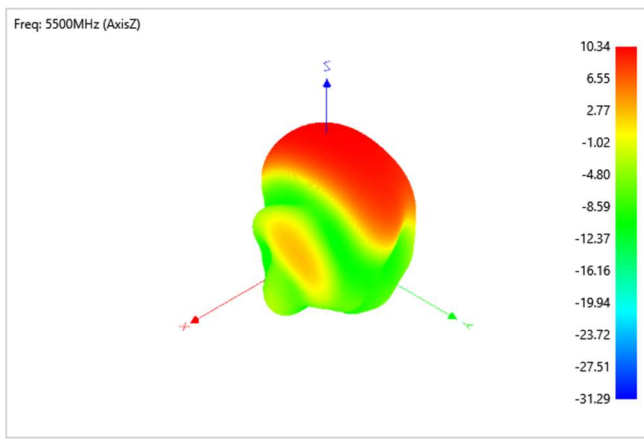
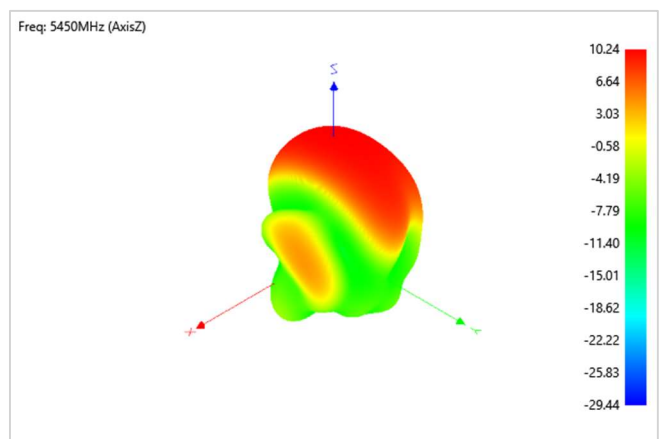
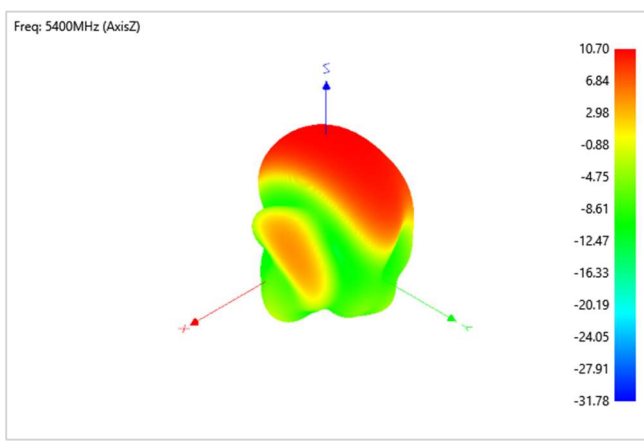
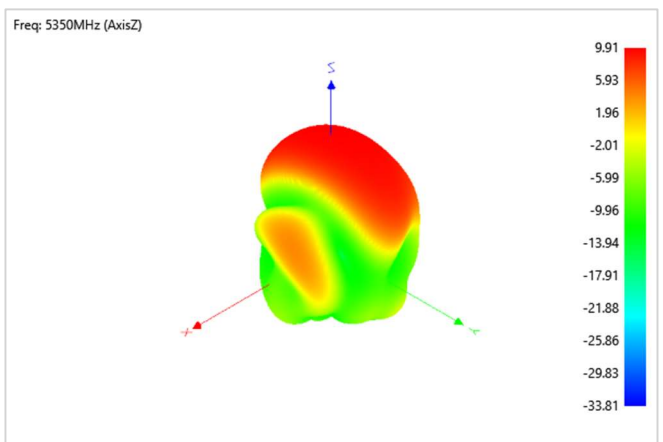
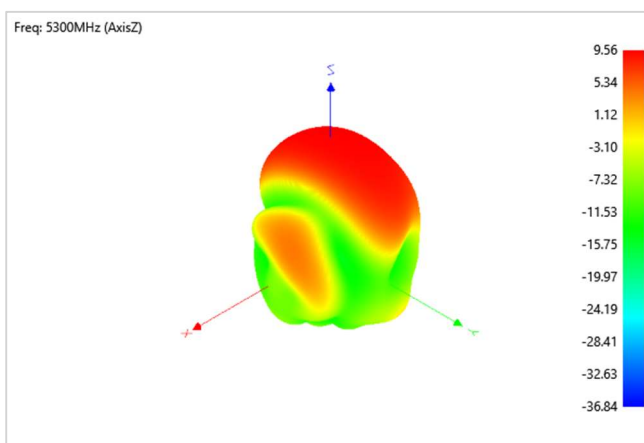
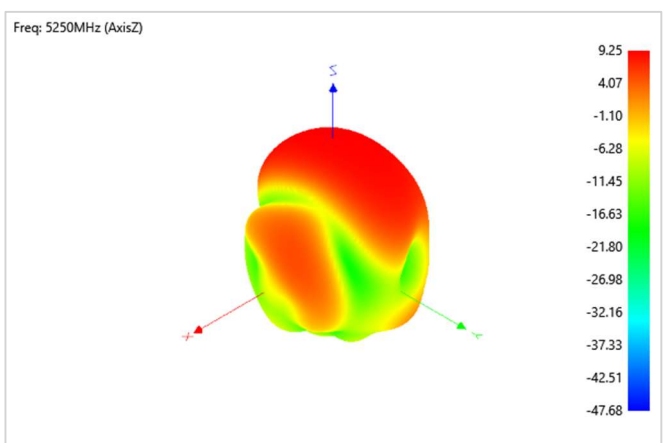
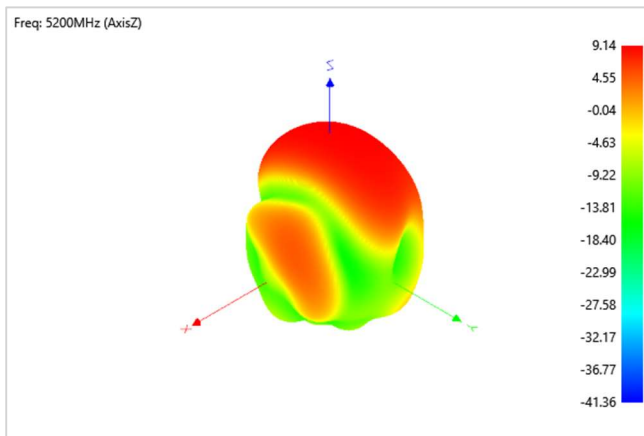
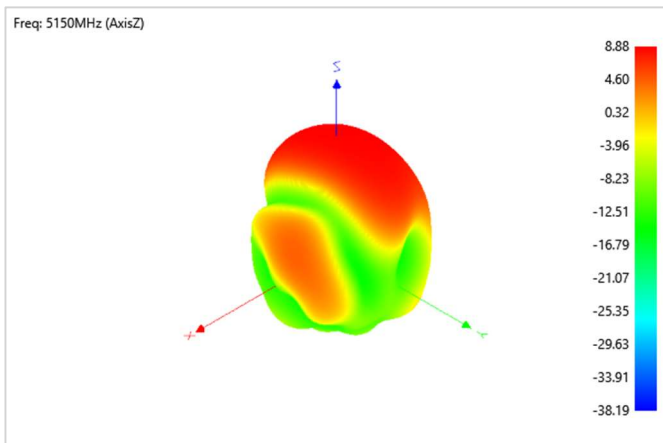


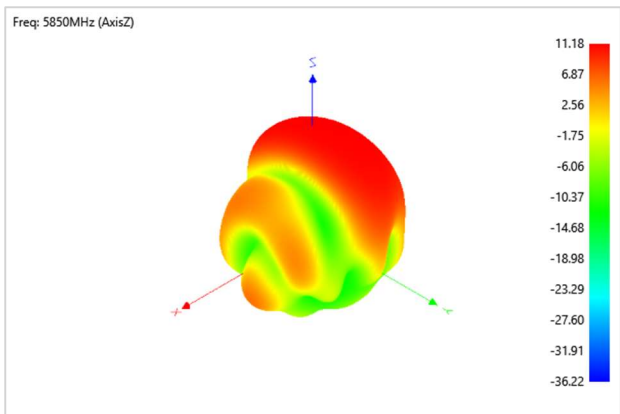
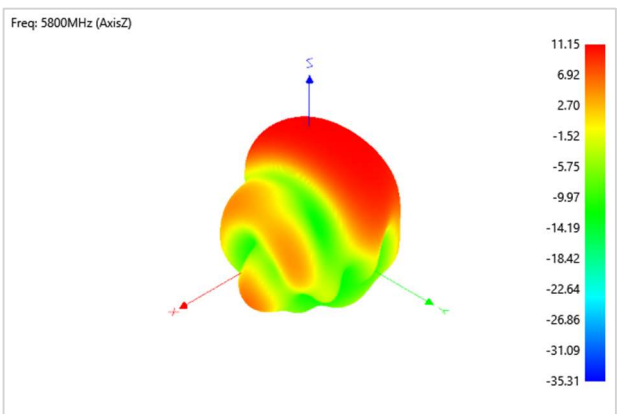
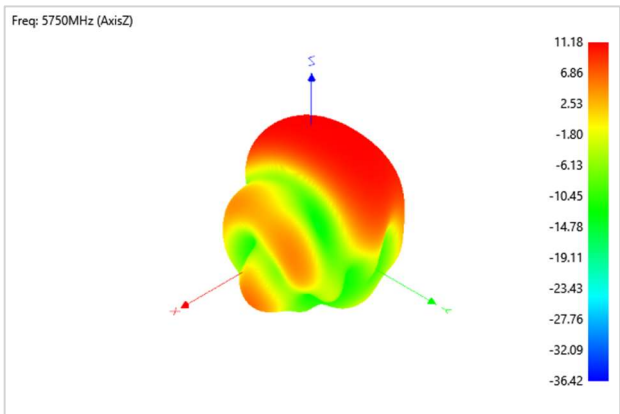
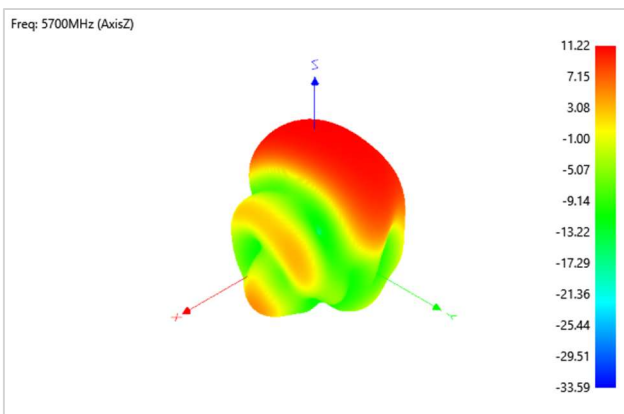
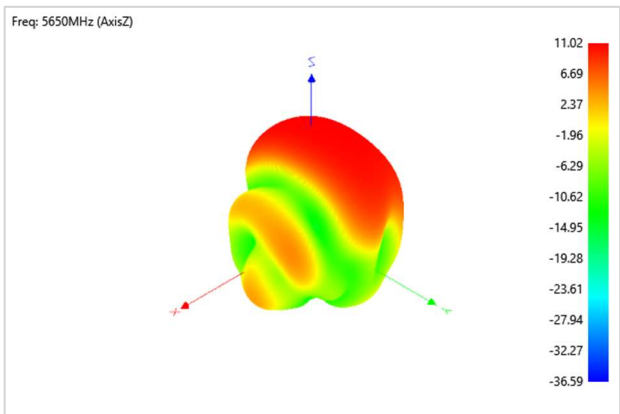
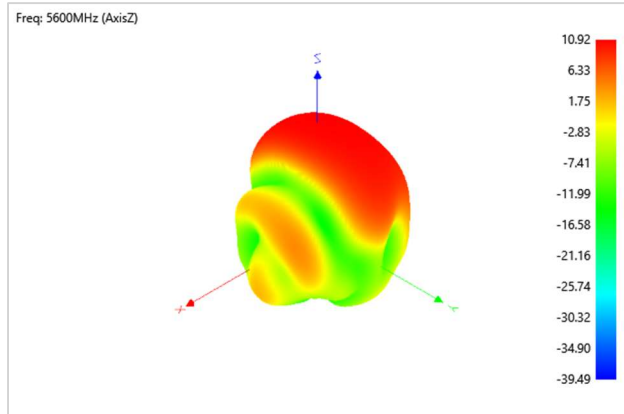
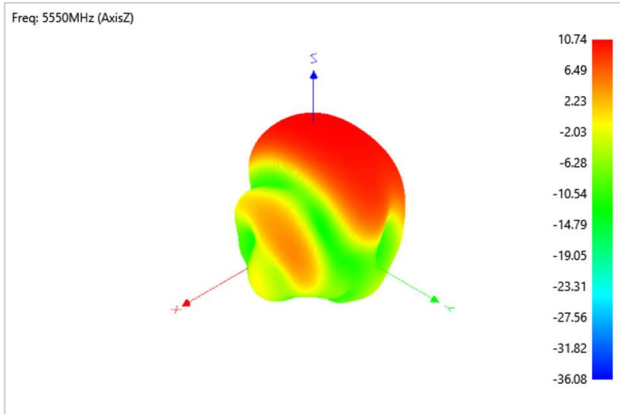




ANT2







Eesting Environment



Test Results

	Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
ANT1	GAIN (dBi)	8.45	9.4	9.76	9.71	9.3	9.04	10.07	10.93	10.42	10.61	10.91	10.85	10.48	10.59	10.29
	BeamWidth (°)	29.89	29.9	29.45	29.35	28.95	28.82	28.68	28.63	28.6	27.82	27.74	27.53	26.5	26.32	26.35
ANT2	GAIN (dBi)	8.88	9.14	9.25	9.56	9.91	10.7	10.2	10.34	10.74	10.92	11.02	11.22	10.18	10.15	10.18
	BeamWidth (°)	29.88	29.85	29.55	29.32	29.01	28.89	28.78	28.68	28.55	27.89	27.78	27.56	26.32	26.35	26.38