深圳市安特通讯科技有限公司
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HUACHUANG TECHNOLOGY LTD

Antenna Test Report

Tester : Hu Lin
Approval : Liu Feng
Date : 2023 / 12 / 13

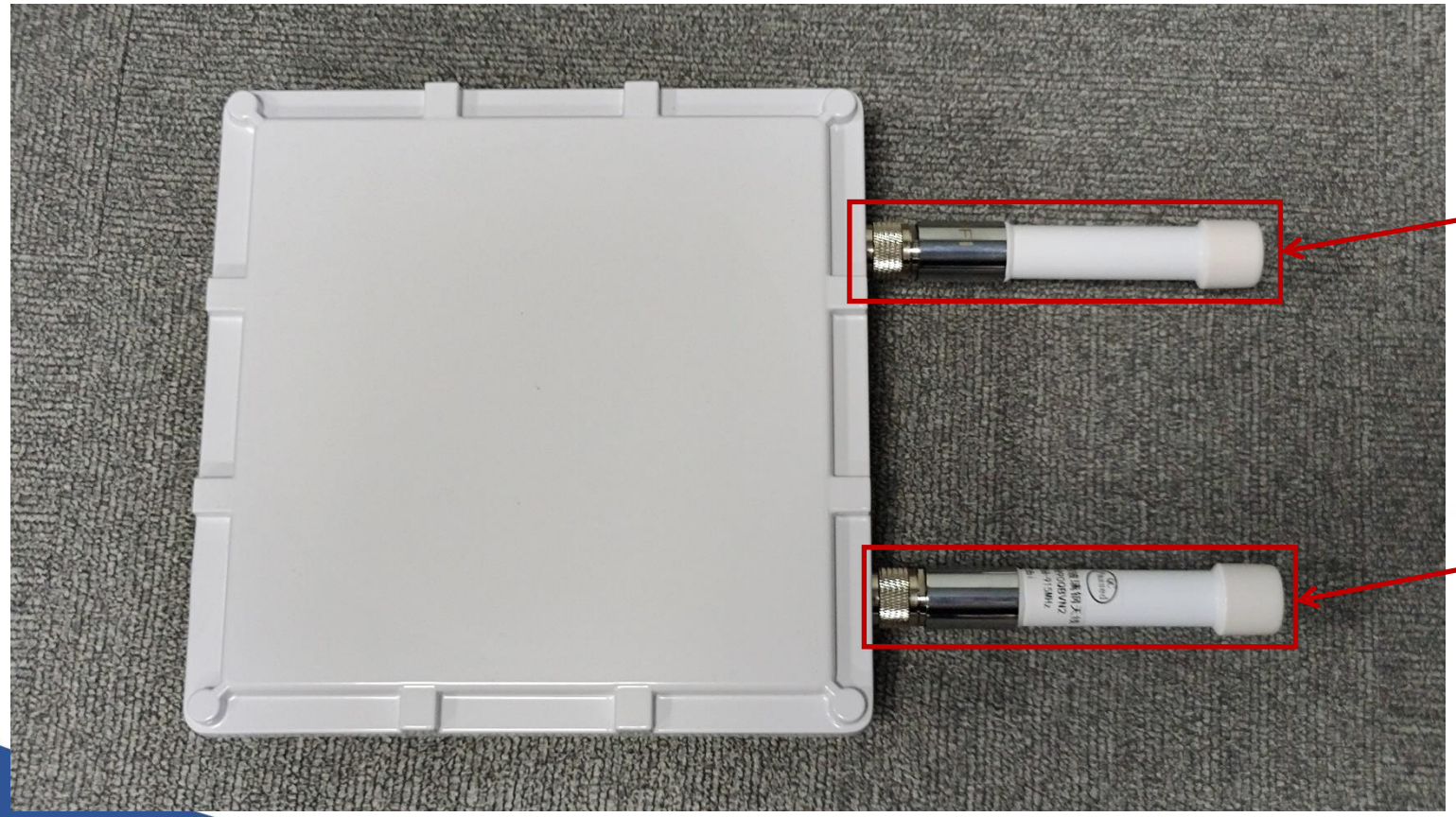
1. Device Profile

2. 868-915MHz LoRa Test

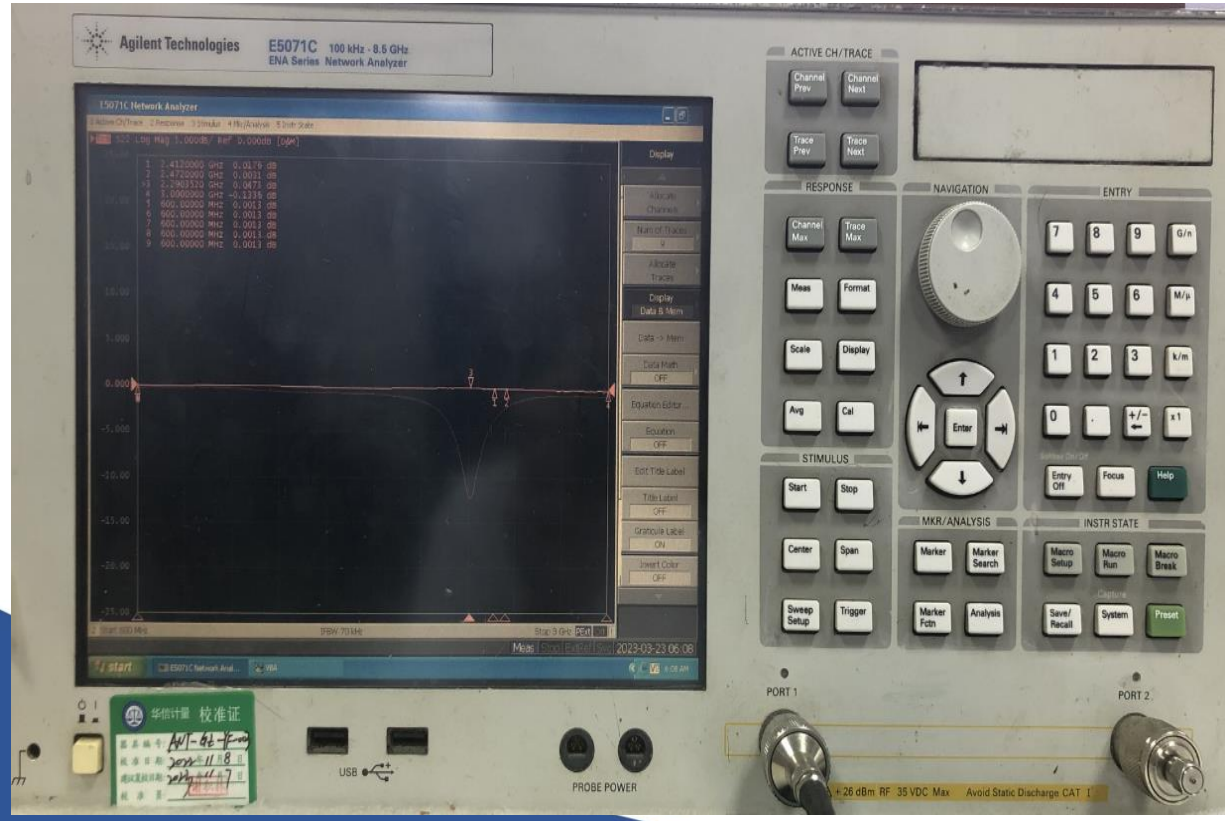
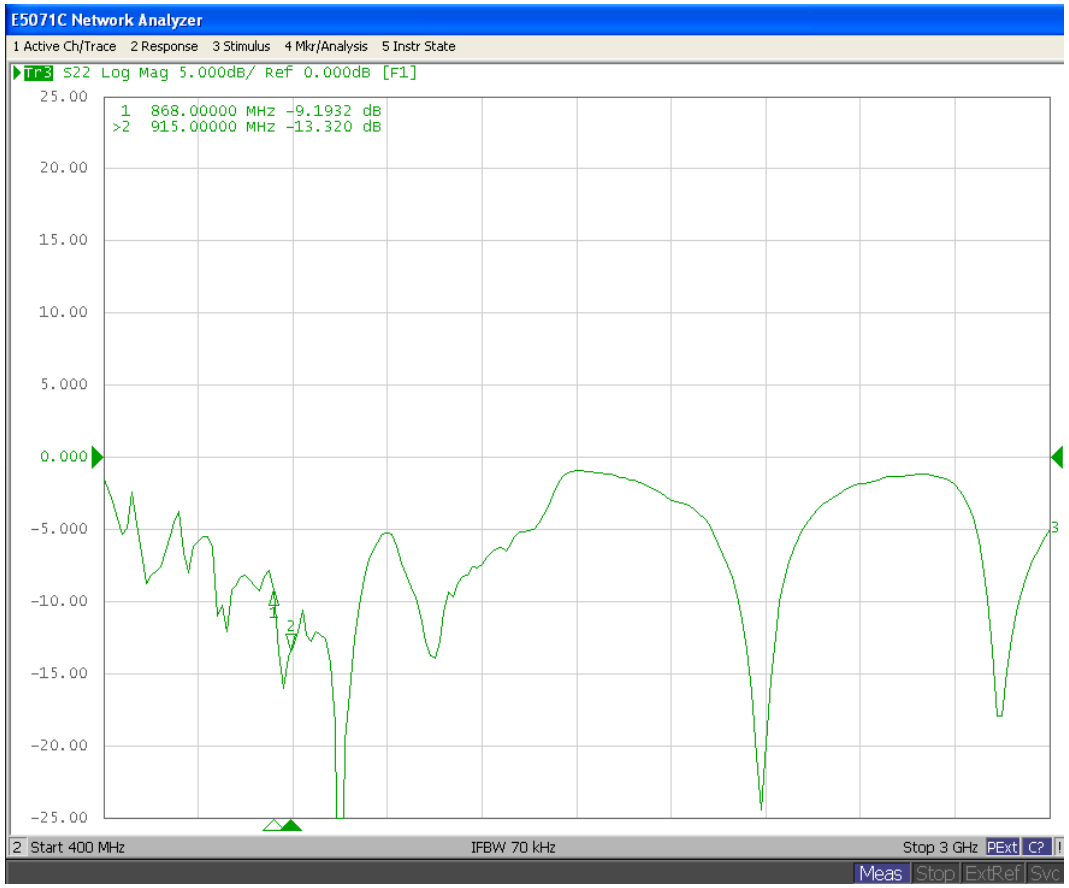
3. 2.4G Test

M/N:NODE1

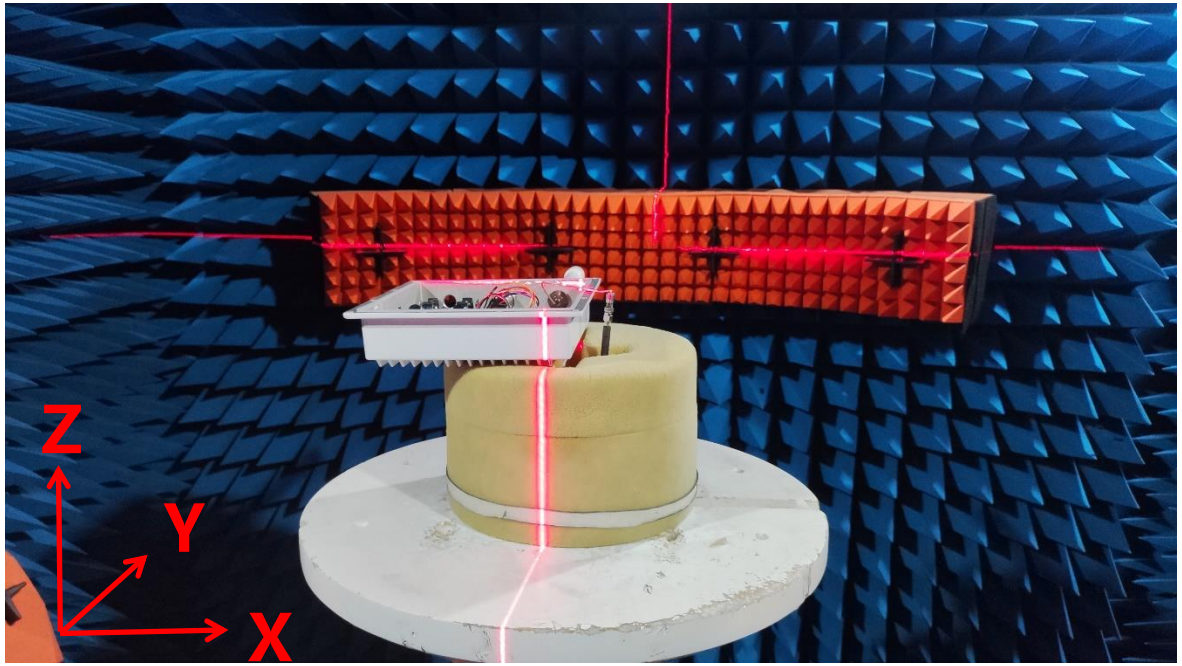
1. Device Profile

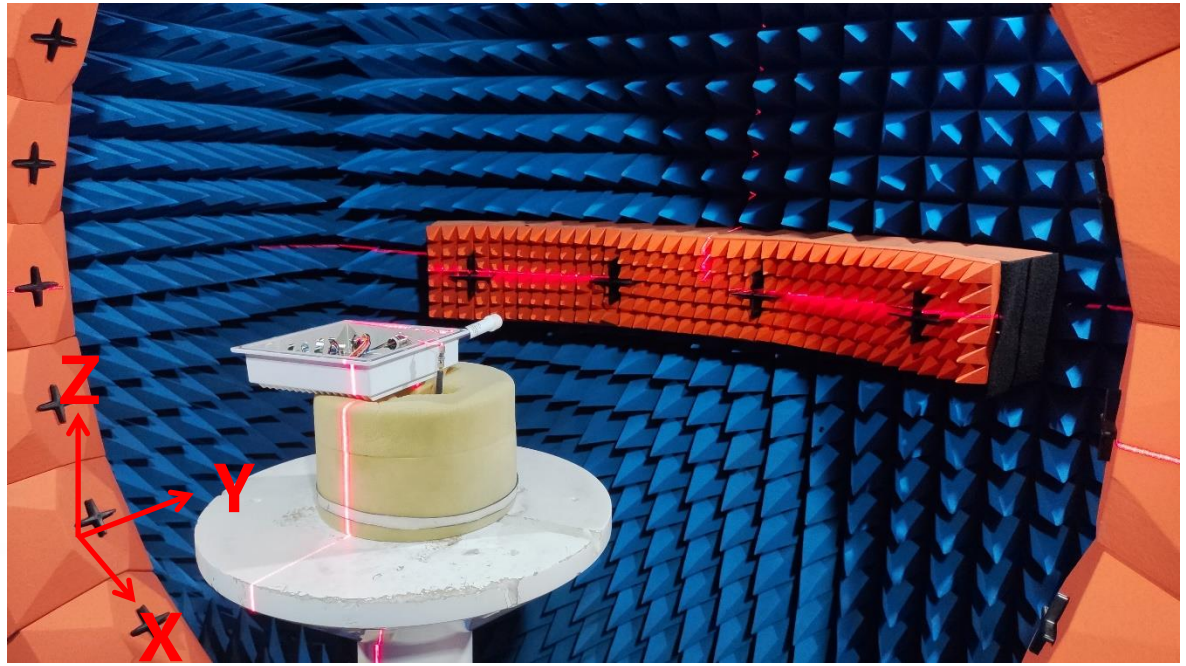


2. 868-915MHz LoRa Test

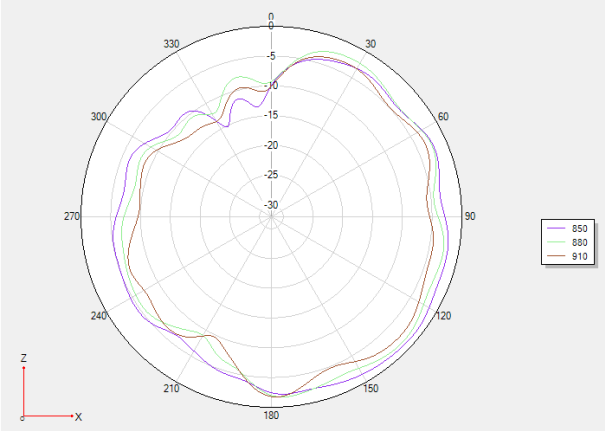
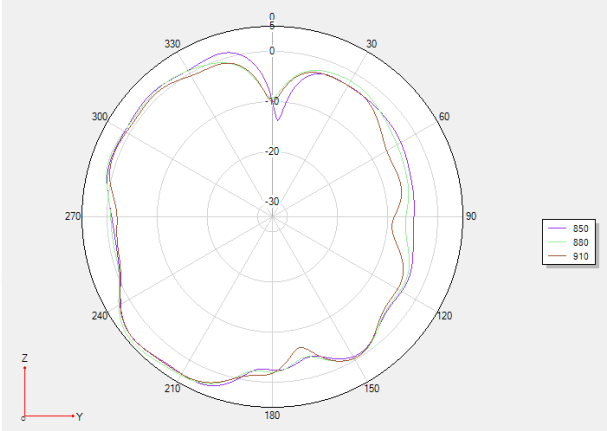
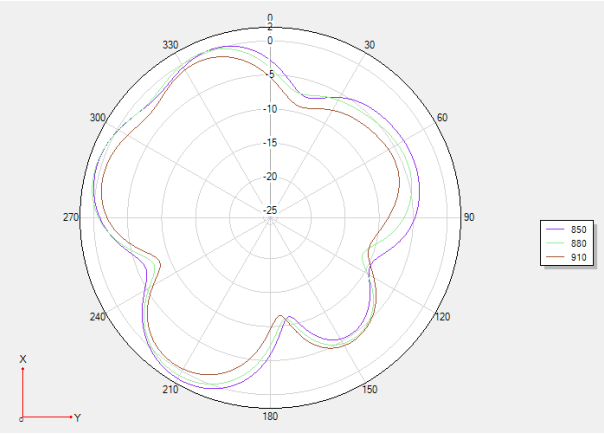
Agilent E5071C	S-Parameter Test
	

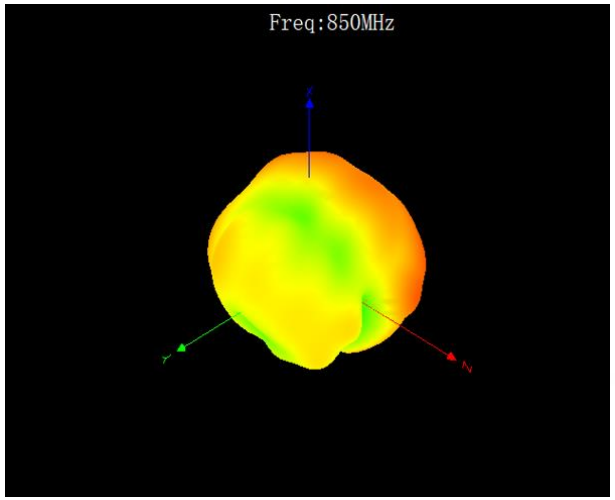
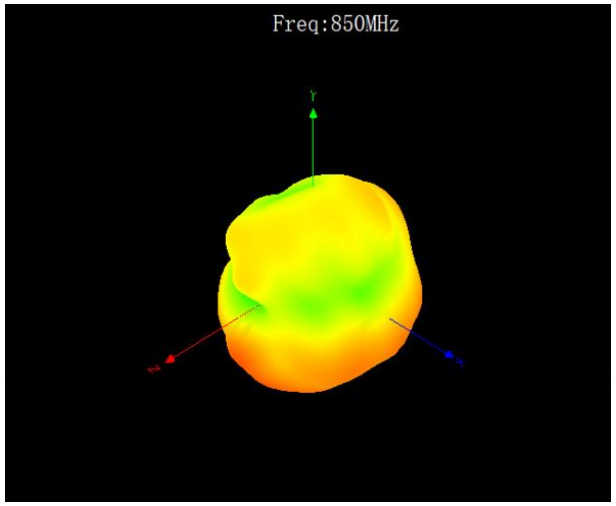
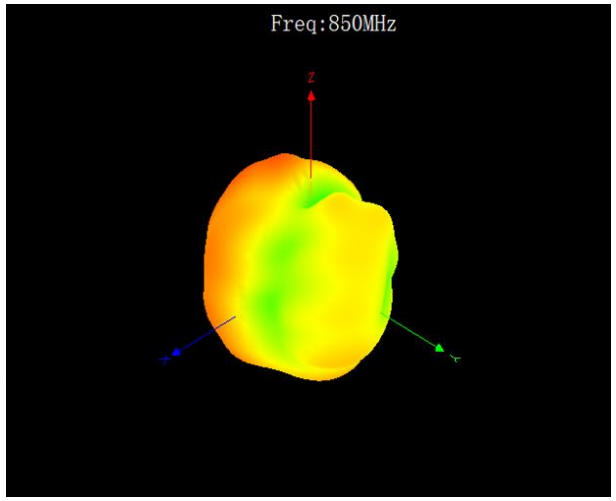
Antenna Passive Test

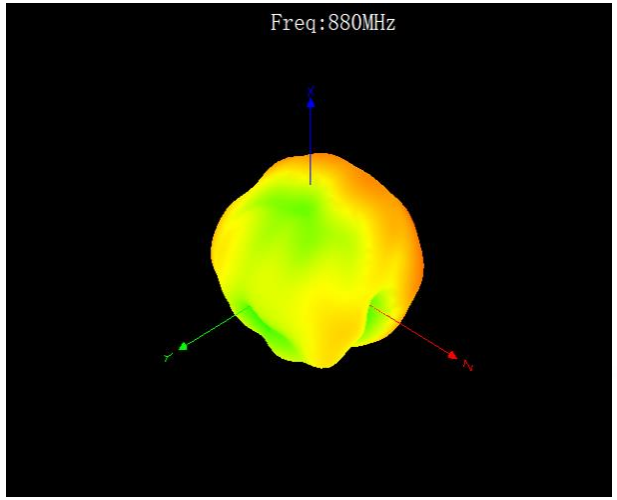
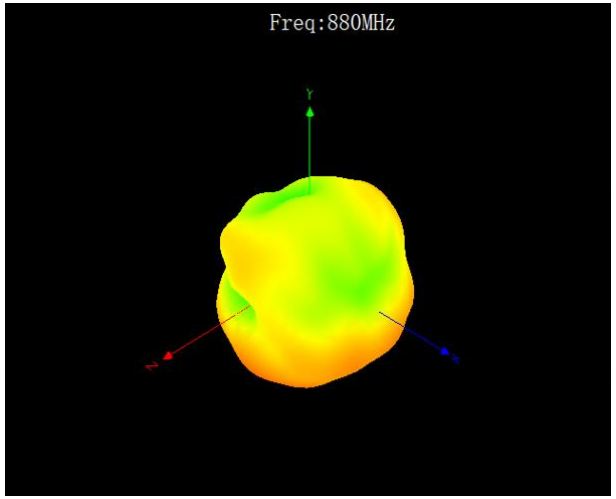
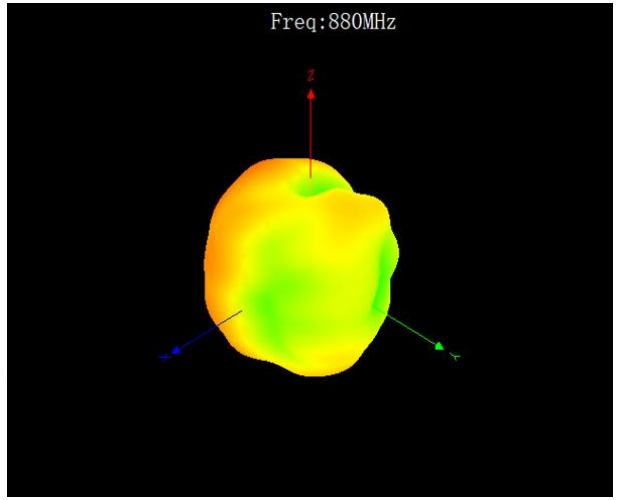




Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
850	-3.07	49.32	3.88
860	-3.07	49.32	4
870	-2.93	50.93	4.23
880	-2.87	51.64	4.48
890	-2.76	52.97	4.01
900	-2.65	54.33	4.14
910	-2.72	53.46	3.92
920	-2.43	57.15	4.55
930	-2.55	55.59	4.55

2D-Etotal (850/880/910Mhz)		
Phi 0 2D	Phi 90 2D	Theta 90 2D
		

3D-Etotal (850Mhz)		
		

3D-Etotal (880Mhz)		
		

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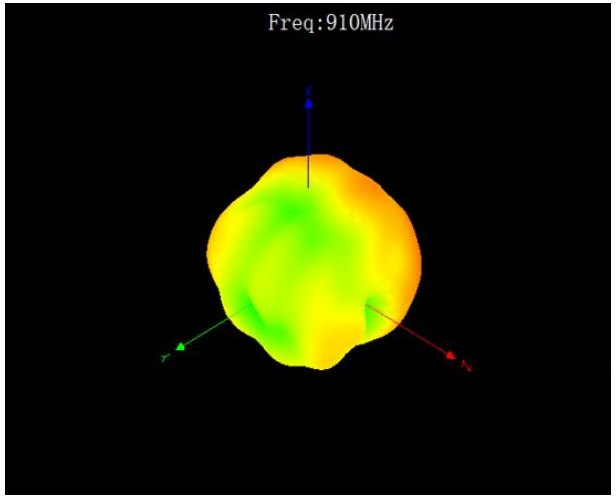
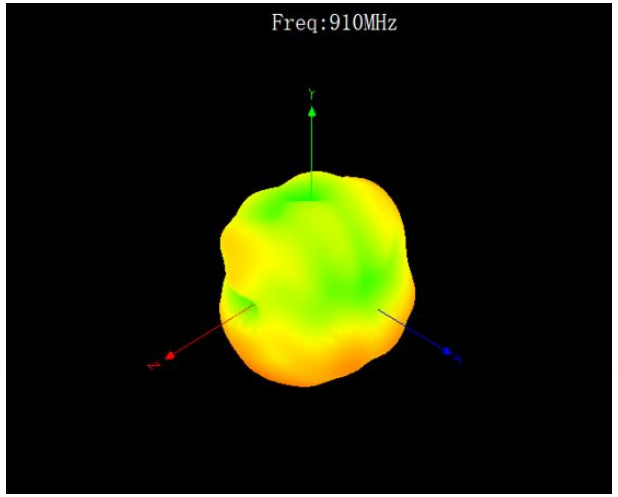
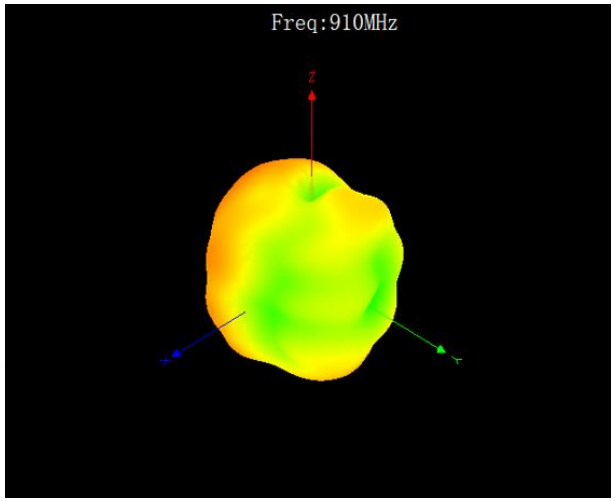
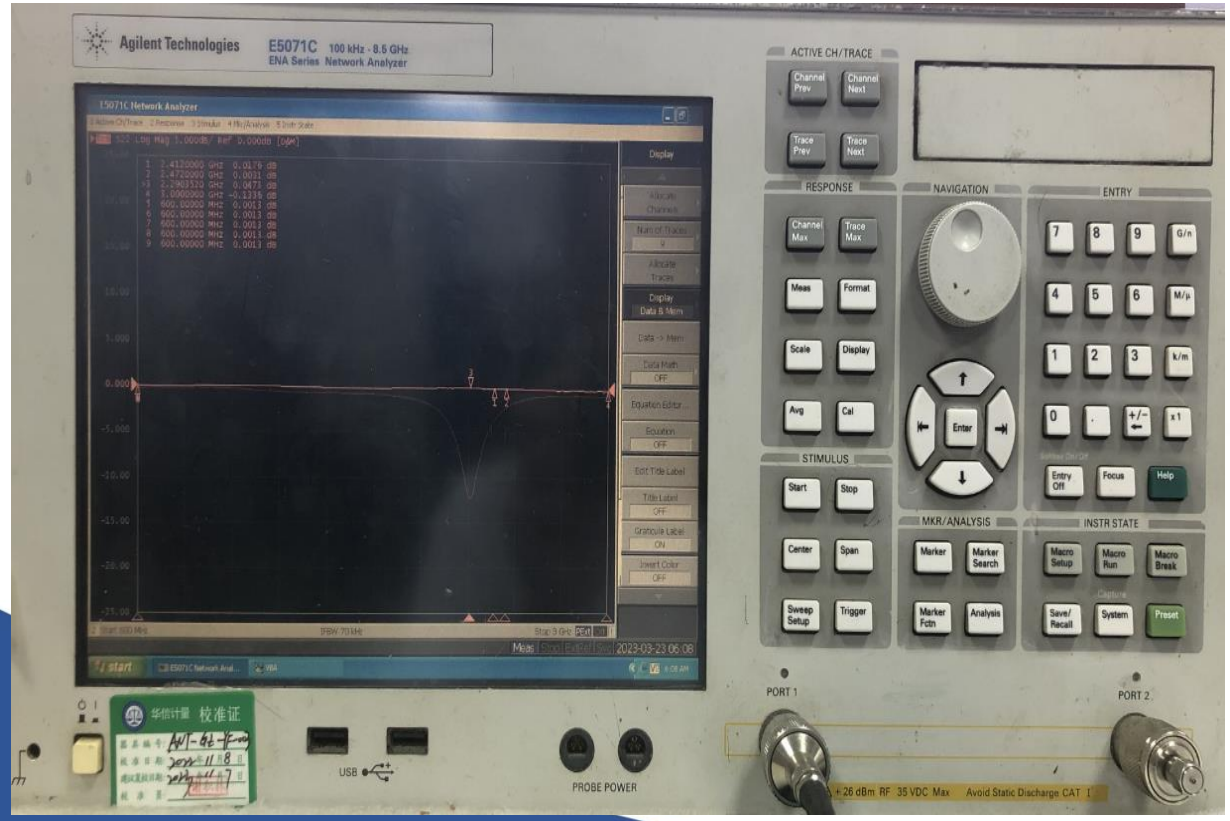
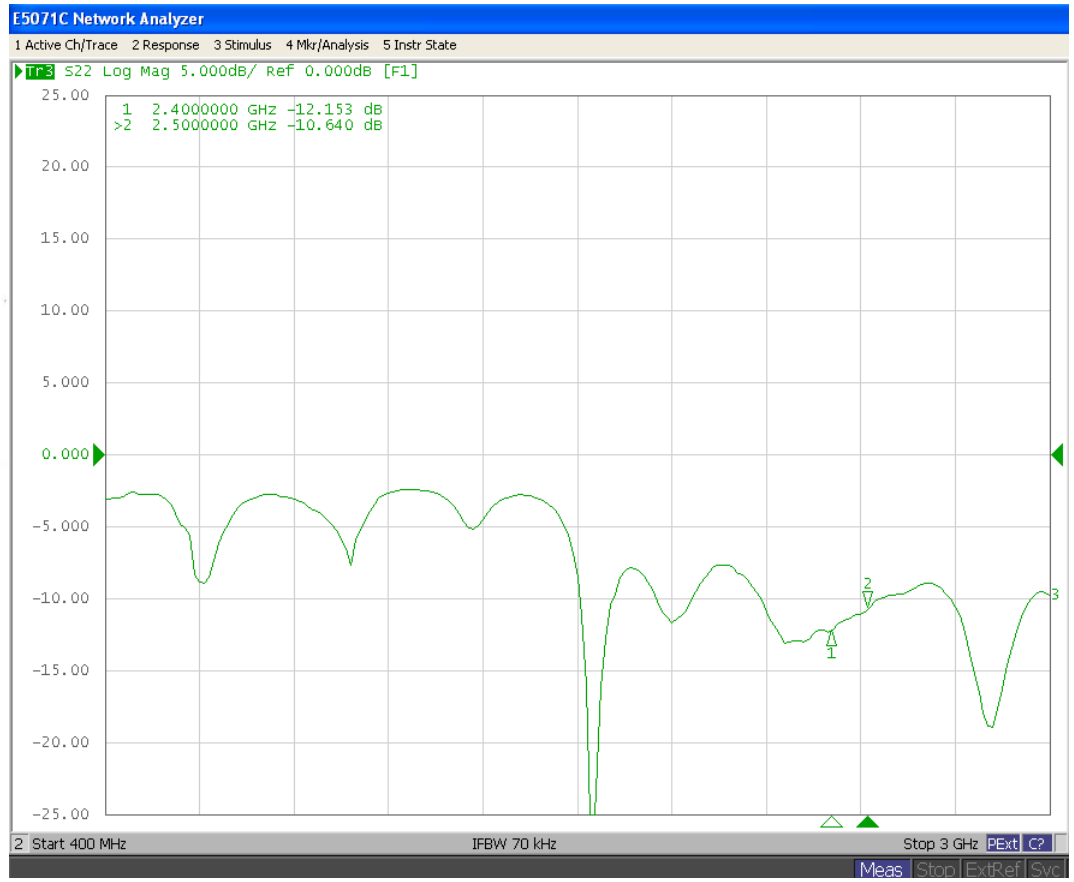
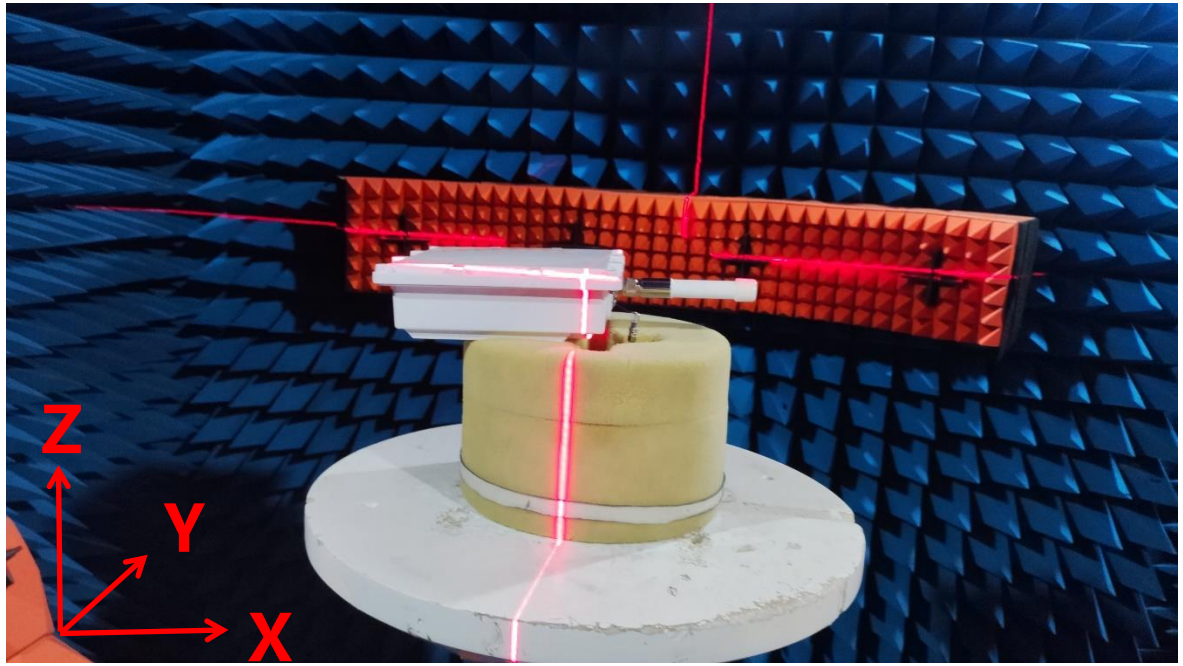
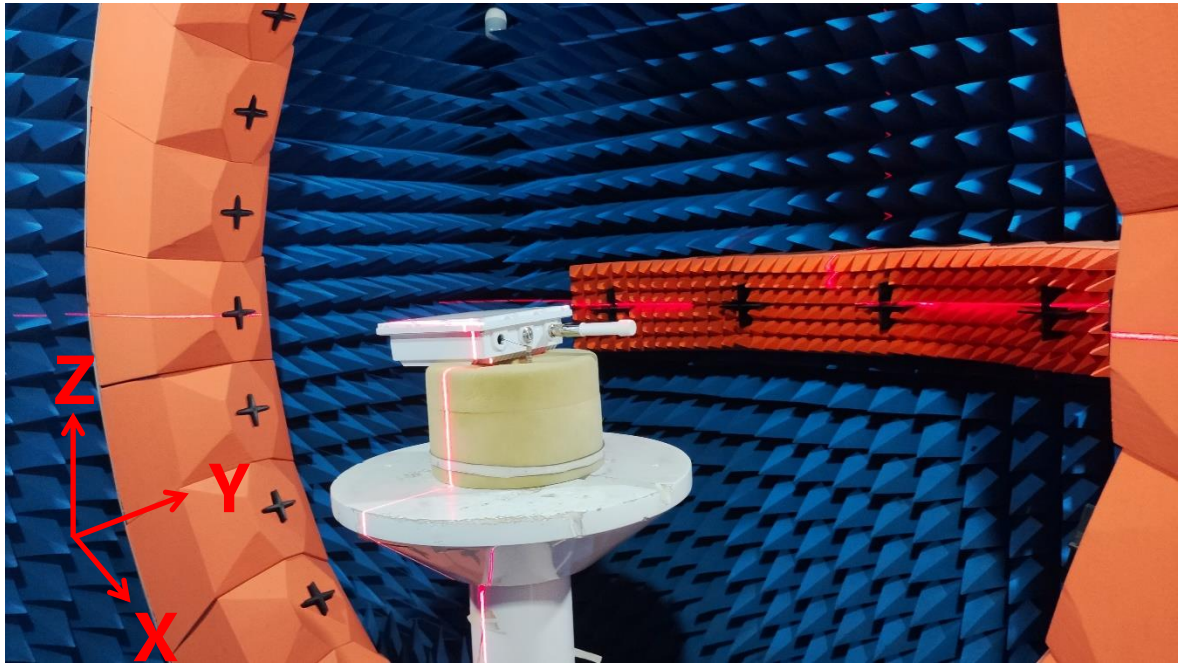
		

2. 2.4G BT Test

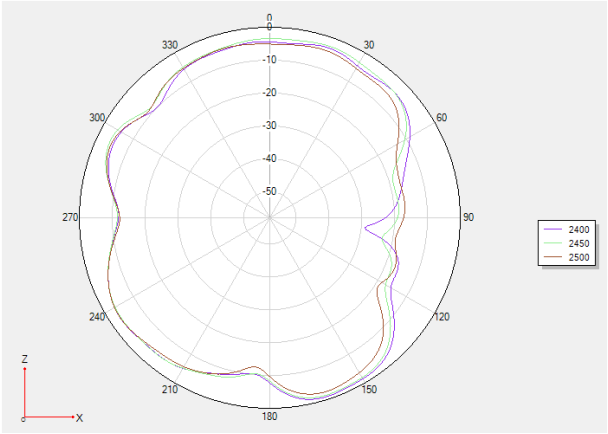
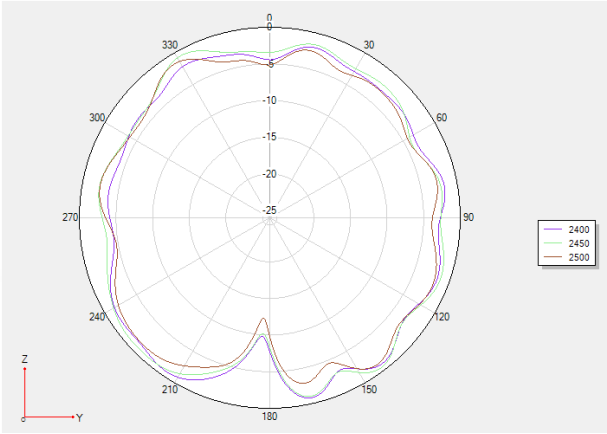
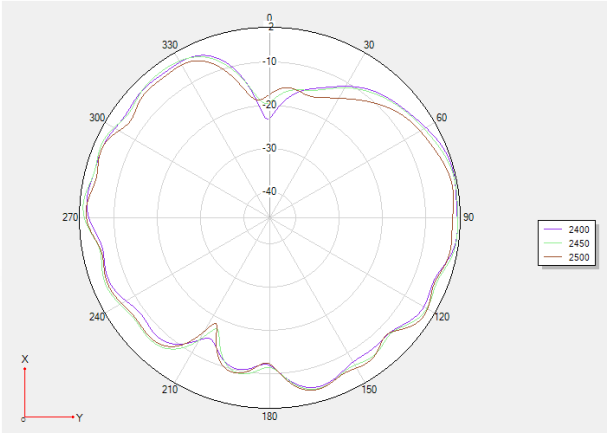
Agilent E5071C	S-Parameter Test
	

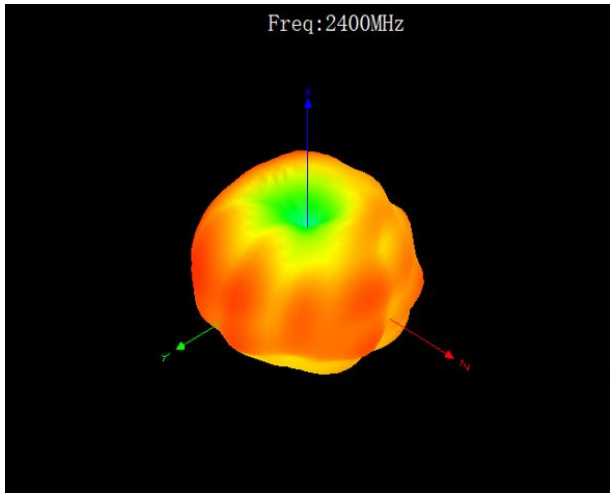
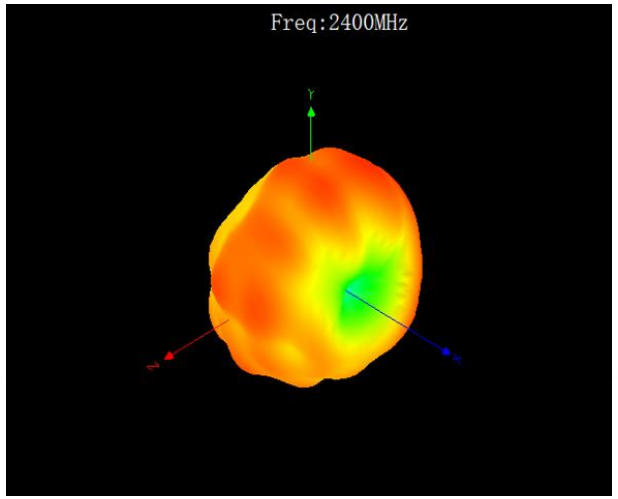
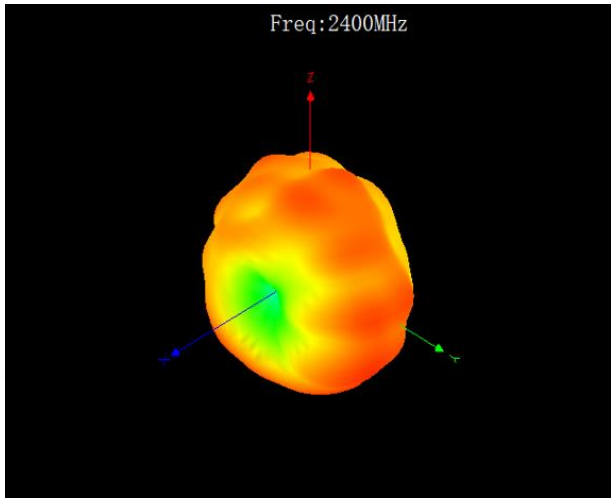
Antenna Passive Test





Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-5.78	26.42	-0.32
2410	-5.48	28.31	-0.15
2420	-5.42	28.71	-0.14
2430	-5.41	28.77	0.16
2440	-5.39	28.91	0.25
2450	-5.29	29.58	0.29
2460	-5.25	29.85	0.49
2470	-5.21	30.13	0.36
2480	-5	31.62	0.93
2490	-4.93	32.14	0.3
2500	-4.88	32.51	1.2

2D-Etotal (2400/2450/2500Mhz)		
Phi 0 2D	Phi 90 2D	Theta 90 2D
		

3D-Etotal (2400Mhz)		
		

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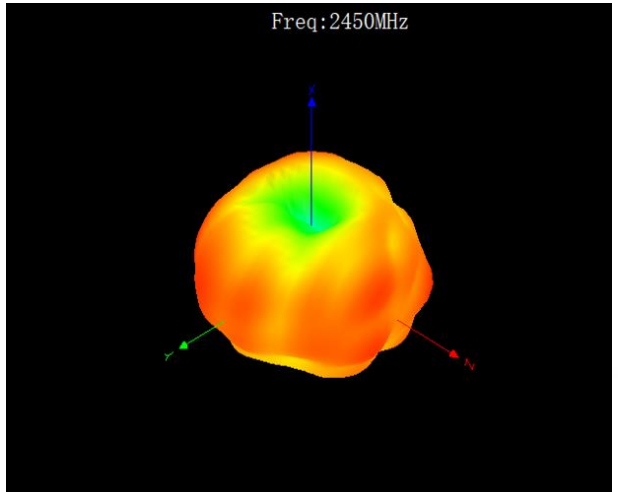	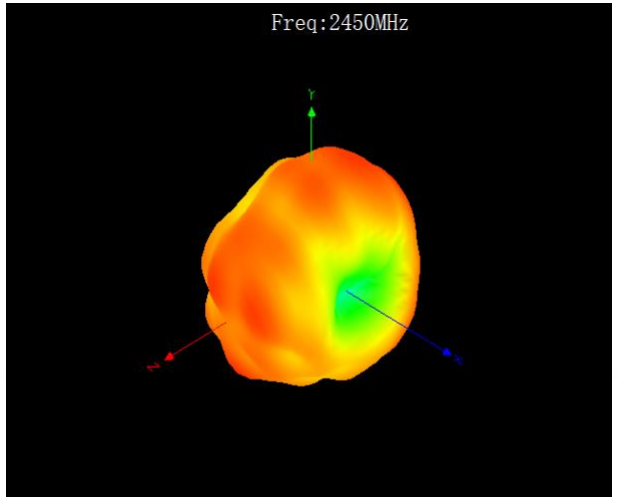	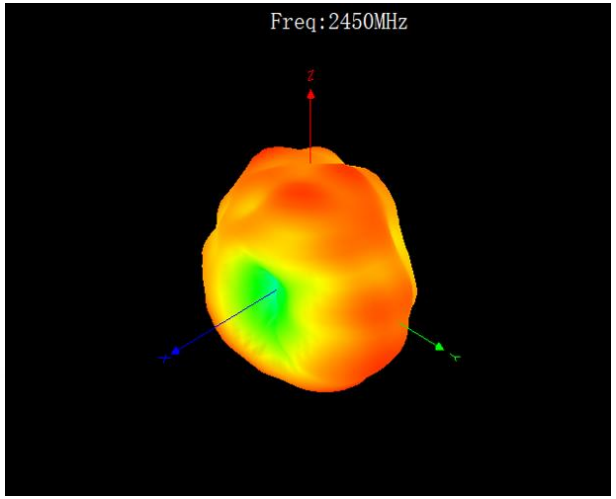

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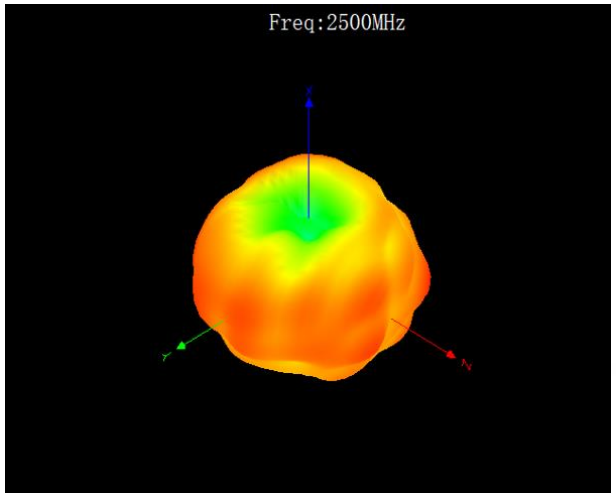	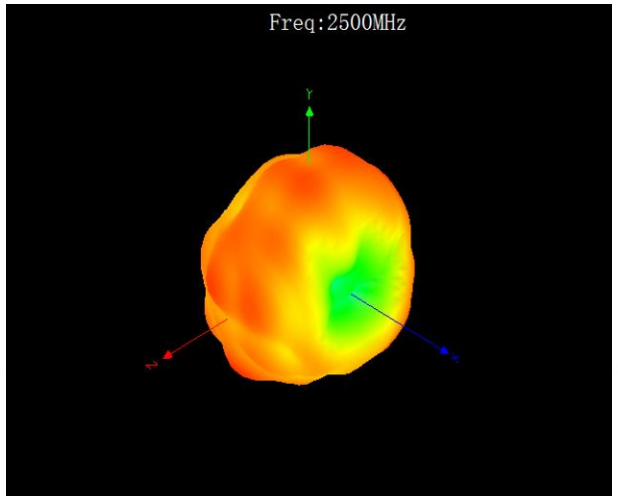	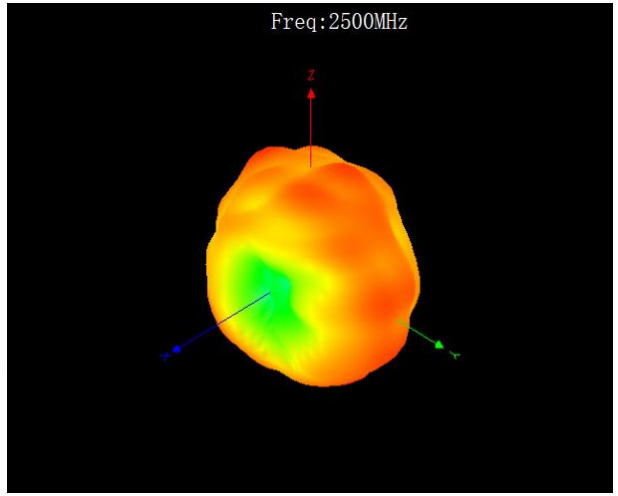

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THANK YOU!