Bluetooth Antenna Debugging Report

2. 4Ghz Team V1. 0 2024. 7. 03

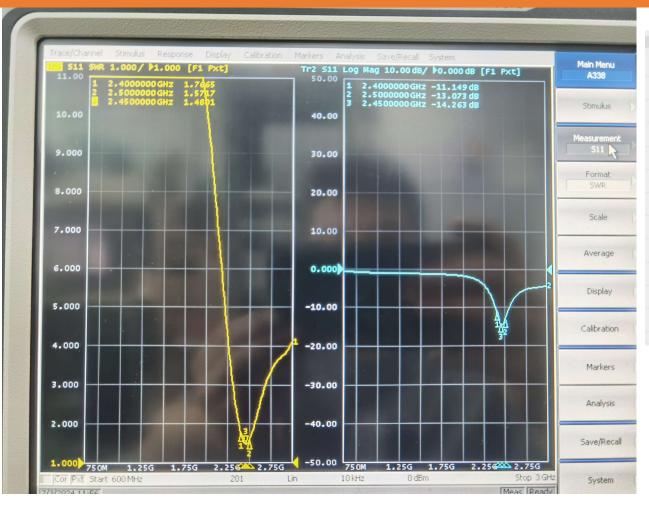
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Version Description

Version	date	describe
V1. 0	2024. 07. 03	Debugging report

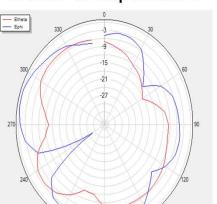
Passive debugging impedance



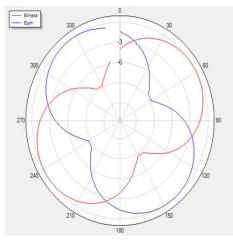
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Gain&Efficiency					
frequency	gain	mingain	efficiency	efficiency	
频率(MHz)	增益(dBi)	最小增益	效率(dBi)	效率(%)	
2400	1.86	-23.02	-3.67	42.95	
2410	1.64	-26.55	-3.62	43.47	
2420	2.51	-27.17	-2.89	51.39	
2430	2.09	-25.34	-3.24	47.47	
2440	2.07	-20.9	-3.22	47.65	
2450	2.12	-18.24	-3.25	47.33	
2460	2.57	-16.65	-2.95	50.67	
2470	2.4	-18.87	-3.15	48.44	
2480	3	-25.5	-2.89	51.45	
2490	3.15	-26.95	-2.68	53.91	
2500	2.97	-20.71	-2.64	54.50	
Horizontal					

direction diagram

H Theta=90 freq=2400MHz

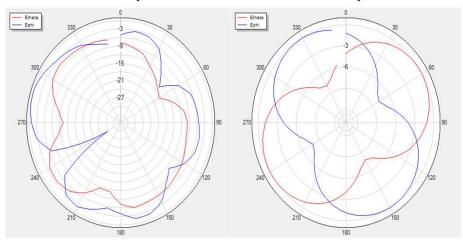


H Theta=0 freq=2400MHz

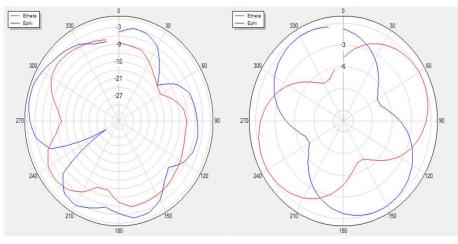


H Theta=90 freq=2410MHz

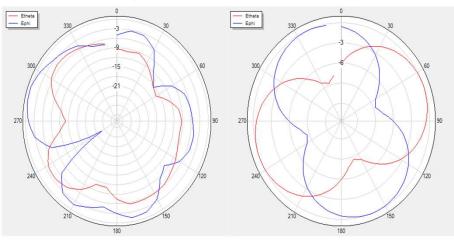
H Theta=0 freq=2410MHz

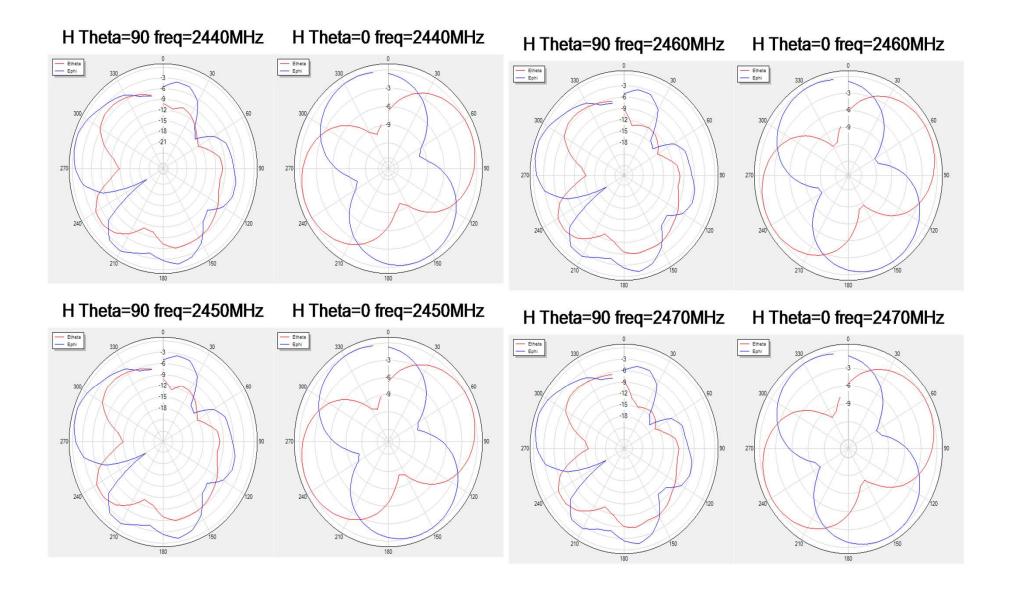


H Theta=90 freq=2420MHz H Theta=0 freq=2420MHz

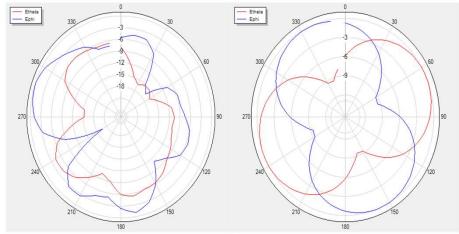


H Theta=90 freq=2430MHz H Theta=0 freq=2430MHz

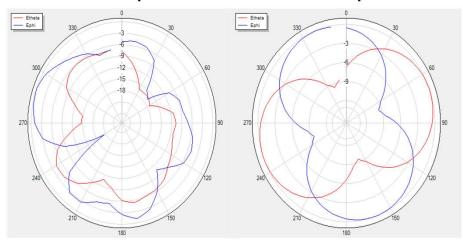




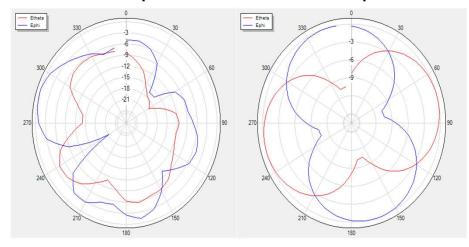
H Theta=90 freq=2480MHz H Theta=0 freq=2480MHz



H Theta=90 freq=2490MHz H Theta=0 freq=2490MHz

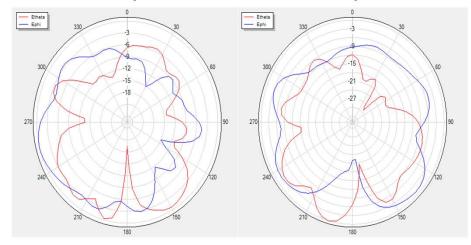


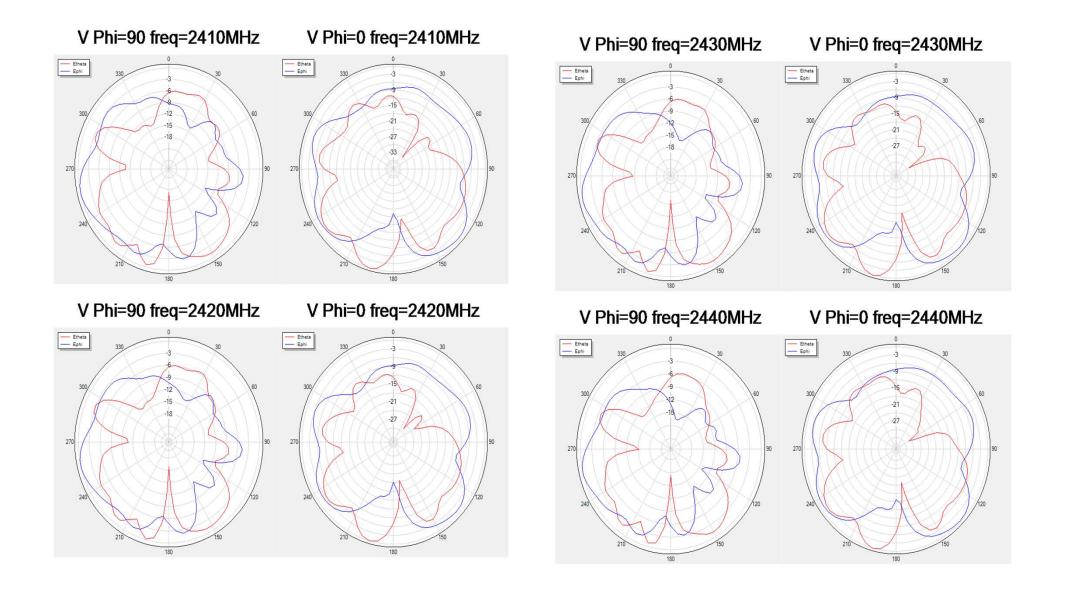
H Theta=90 freq=2500MHz H Theta=0 freq=2500MHz

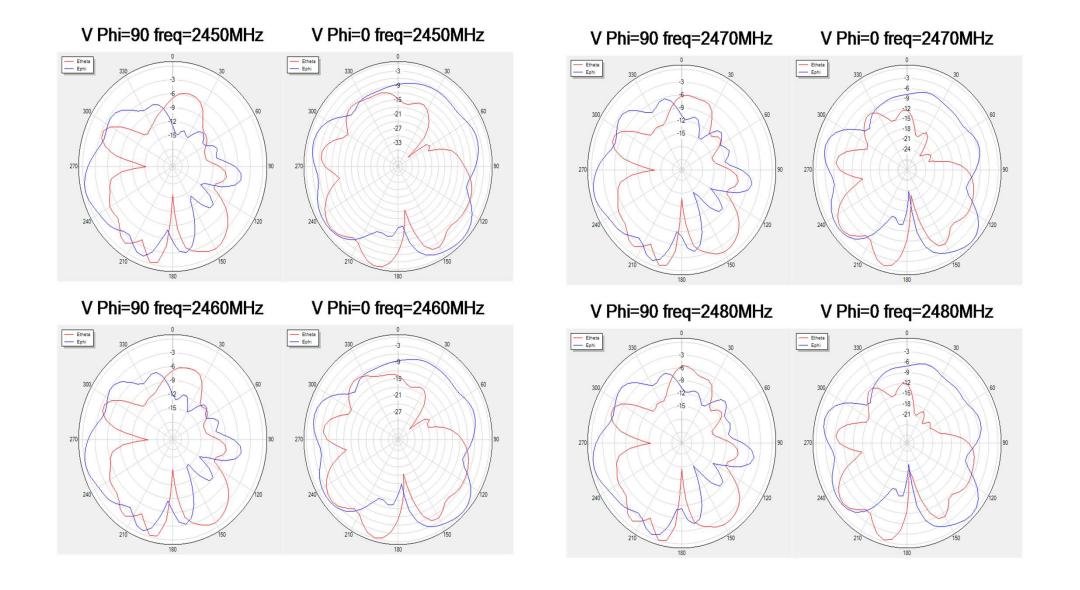


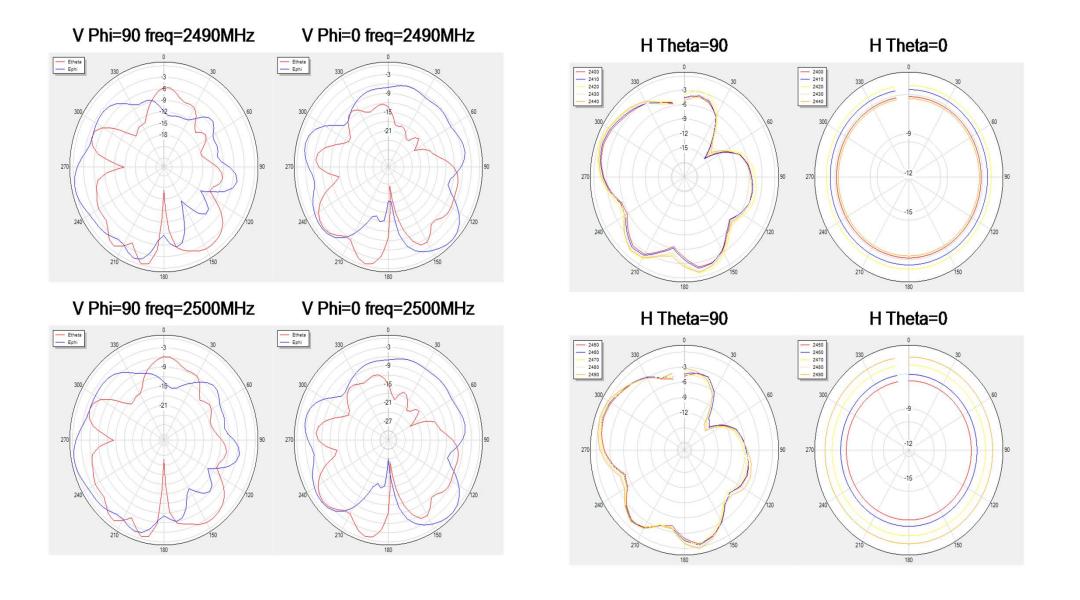
V Phi=90 freq=2400MHz

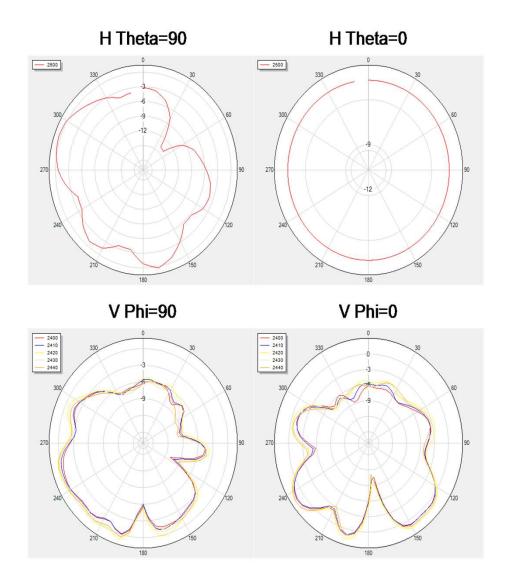
V Phi=0 freq=2400MHz

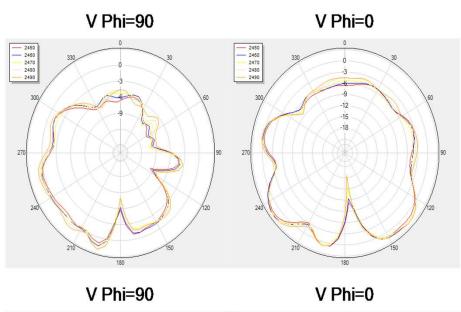


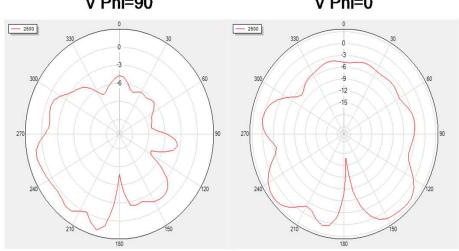












Conclusion

- 1. According to the latest matching RF performance, all requirements are met and stable OK
- 2. Please ensure that the software and hardware are completely consistent before importing the basis for subsequent production to ensure consistency.