

Bluetooth Antenna Debugging Report

2.4Ghz Team

V. 1. 0

2025. 05. 20

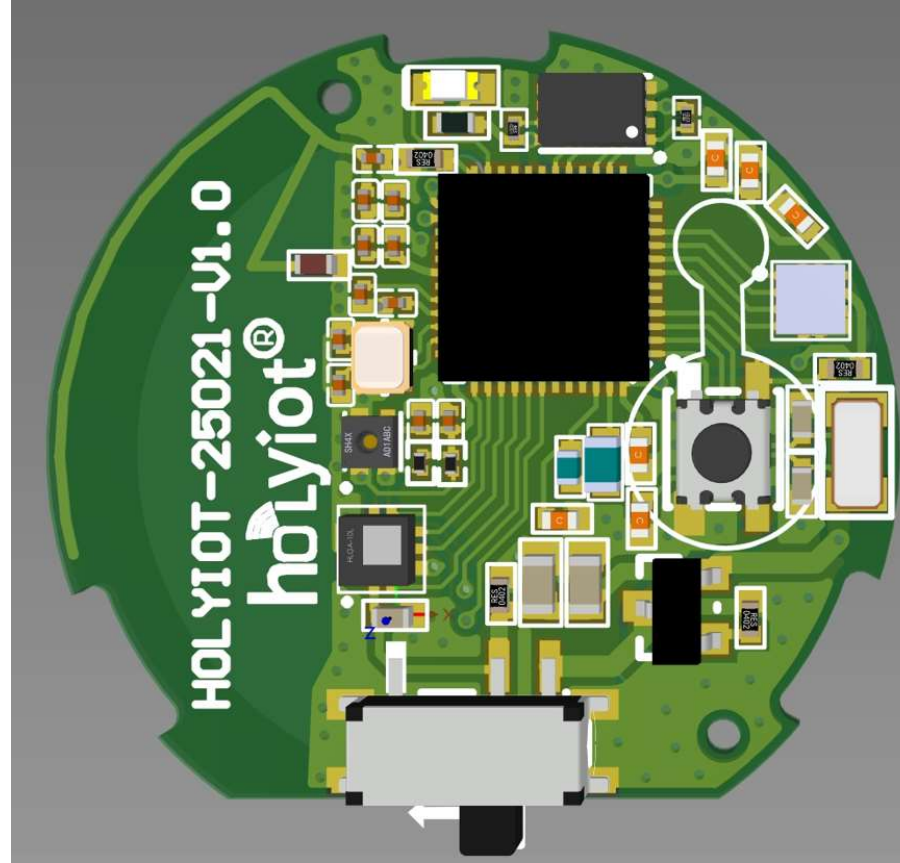
catalogue

- Version Description
- physical object image
- Passive debugging diagram
- direction diagram
- Conclusion

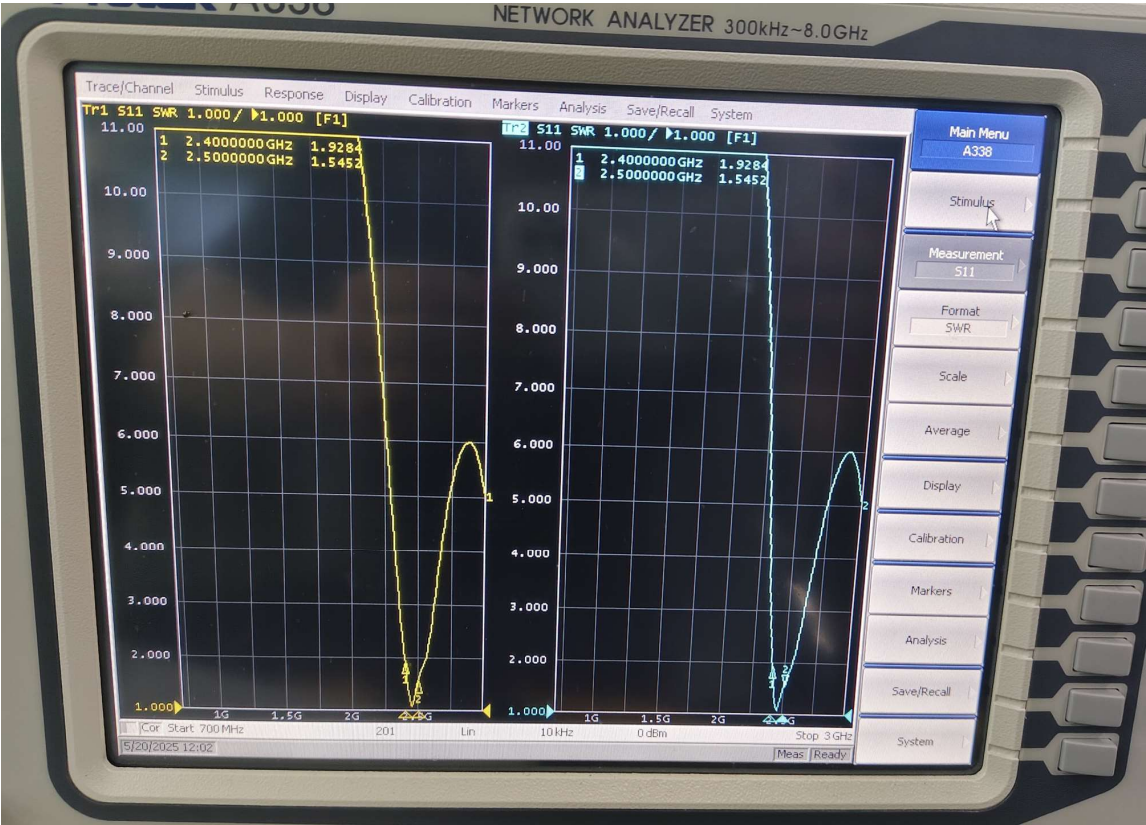
Version Description

Version Description	date	description
V1.0	2025. 05. 20	Debugging Report

physical object image



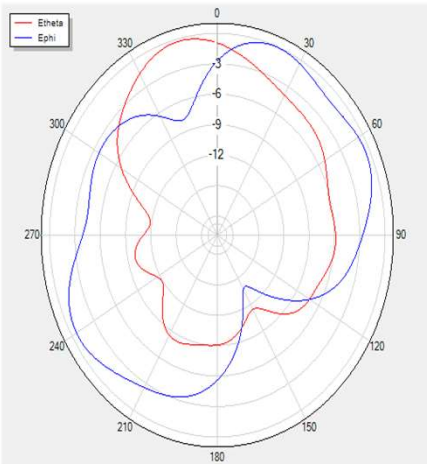
Passive debugging diagram: return loss, standing wave ratio, efficiency



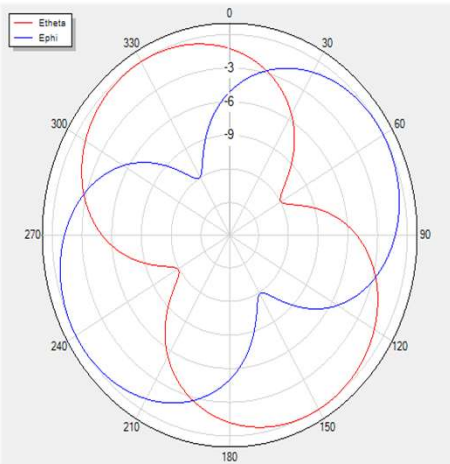
Gain&Efficiency				
frequency 频率(MHz)	gain 增益(dBi)	最小增益 (dBi)	efficiency 效率(dBi)	efficiency 效率(%)
2400	-1.63	-18.39	-7.5	17.80
2410	-1.33	-18.57	-7.06	19.70
2420	-1.55	-18.68	-7.18	19.14
2430	-1.27	-19.29	-7.13	19.35
2440	-1.21	-19.43	-7.14	19.32
2450	-1.13	-18.64	-7.06	19.69
2460	-0.82	-19.21	-7.1	19.51
2470	-1.05	-20.45	-7.41	18.17
2480	-1.33	-21.09	-7.53	17.66
2490	-1.25	-22.83	-7.48	17.85
2500	-1.39	-26.65	-7.6	17.37

direction diagram

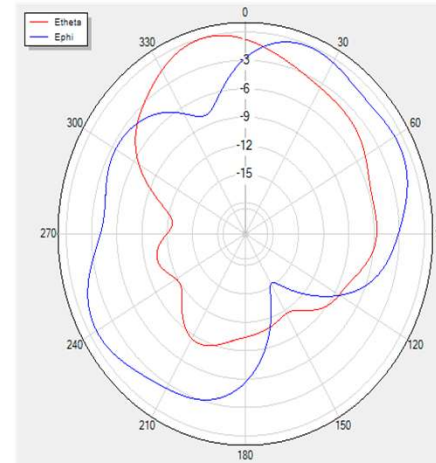
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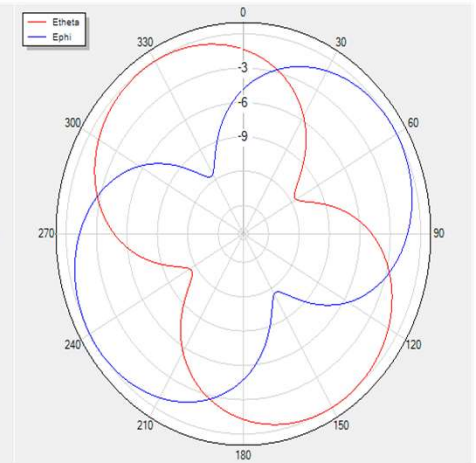
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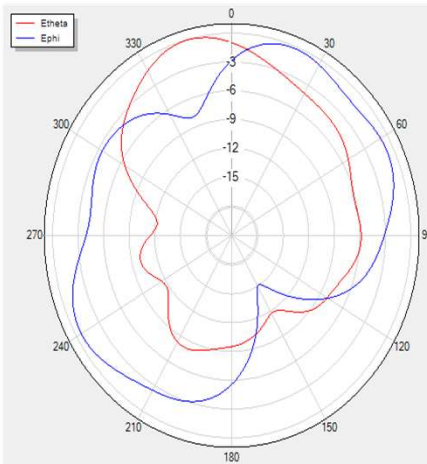
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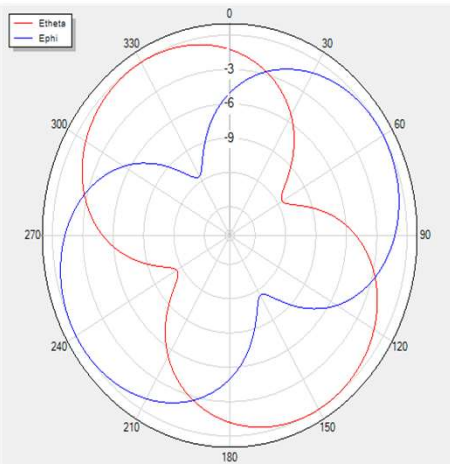
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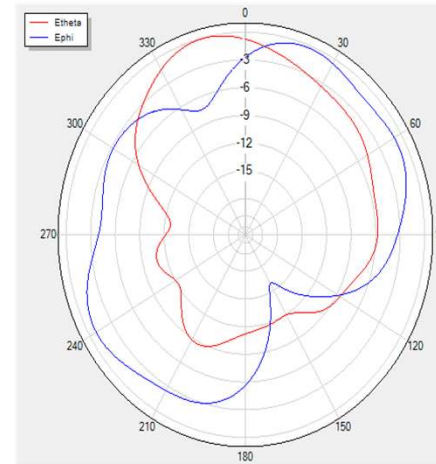
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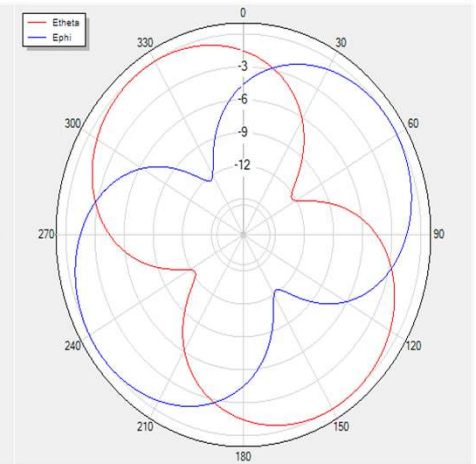
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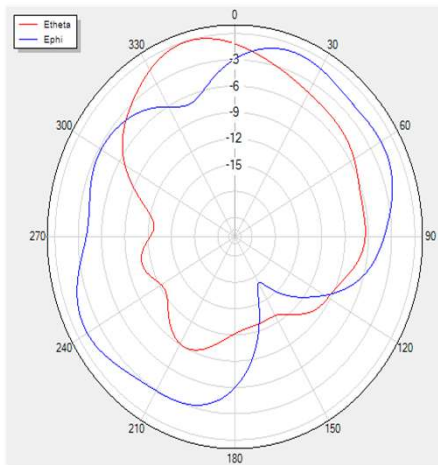
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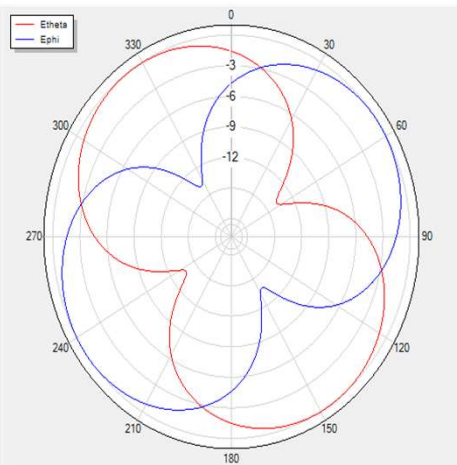
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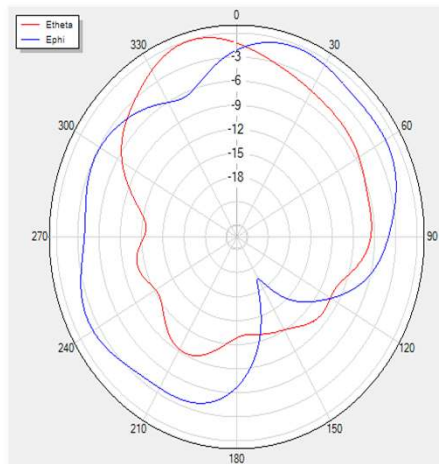
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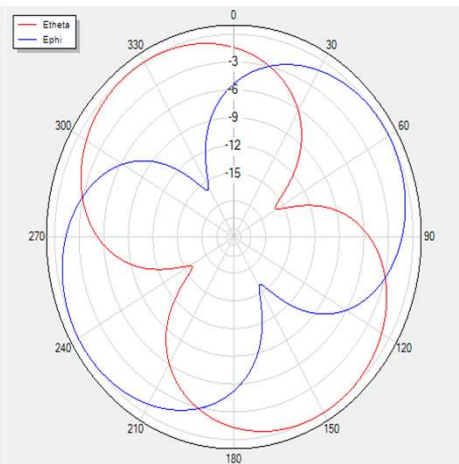
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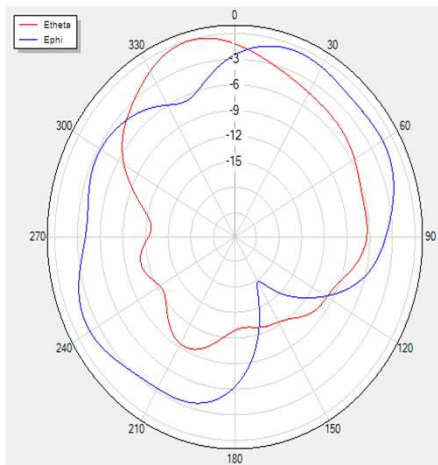
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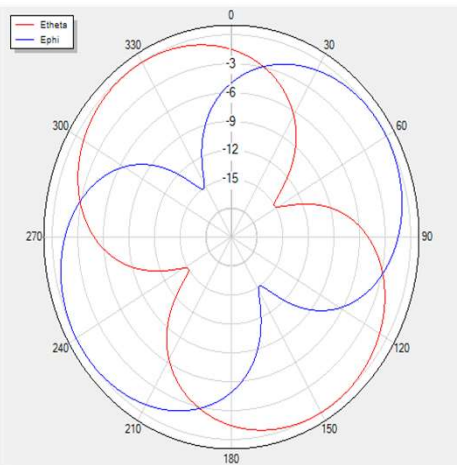
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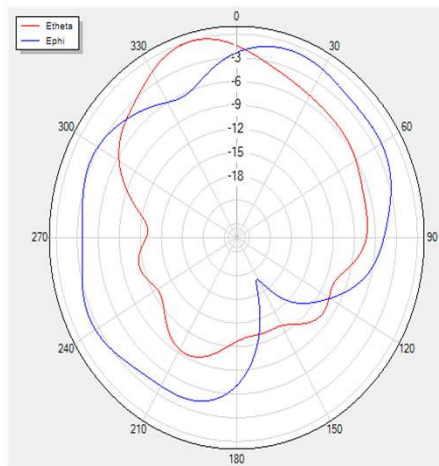
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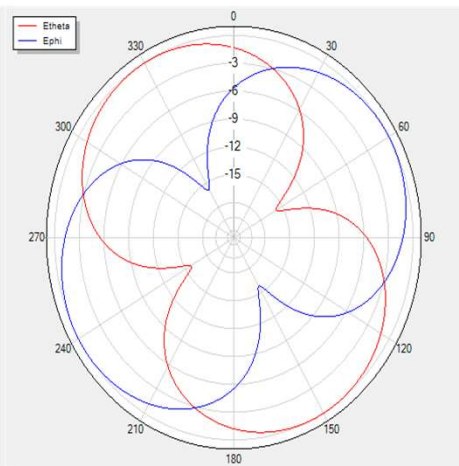
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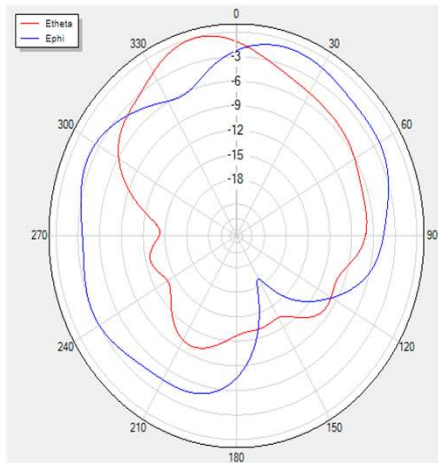
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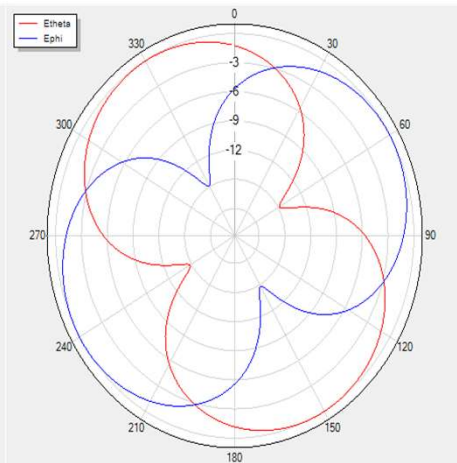
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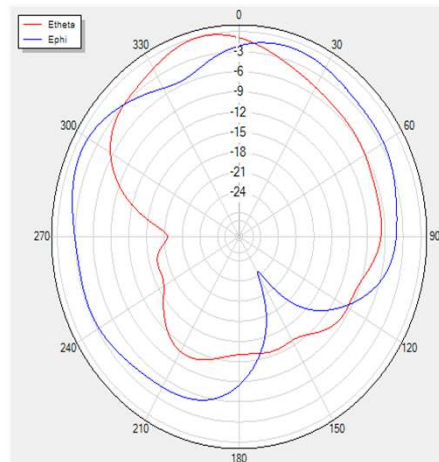
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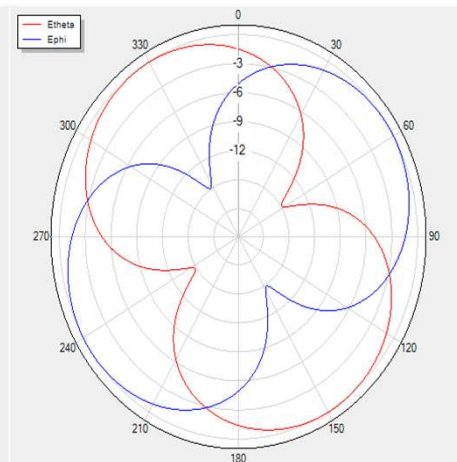
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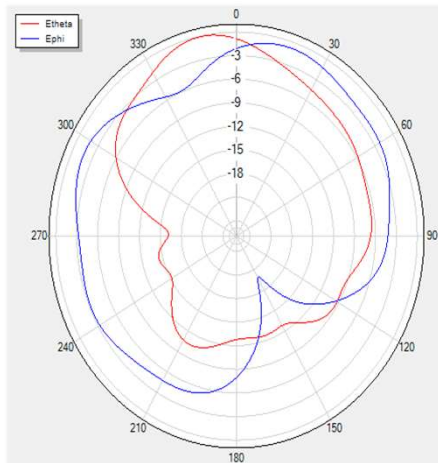
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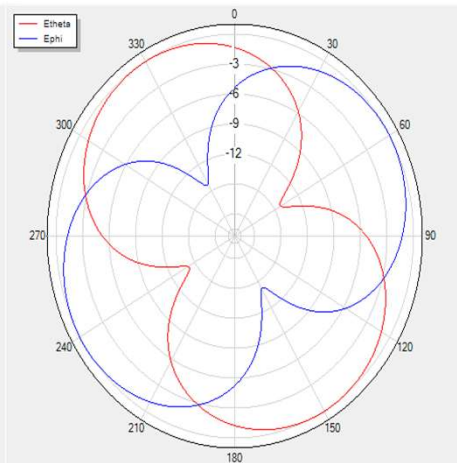
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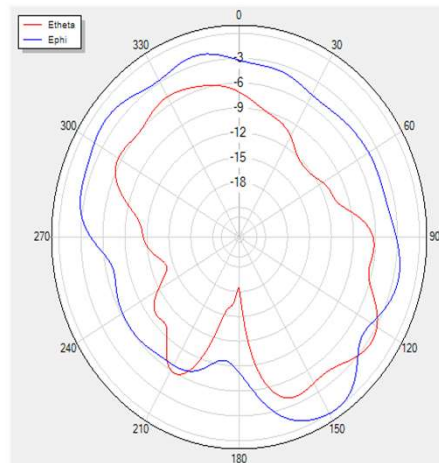
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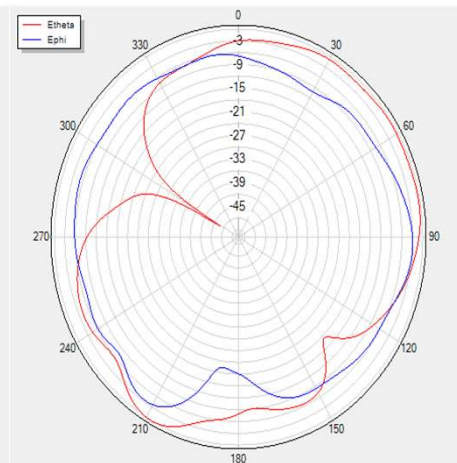
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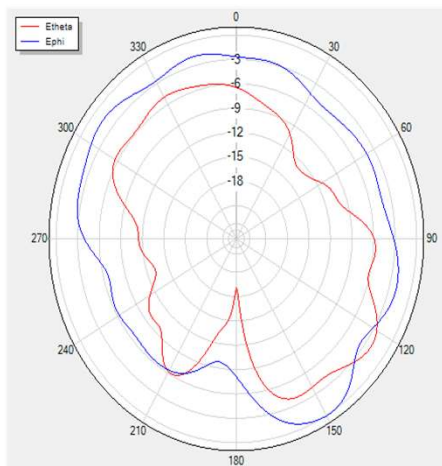
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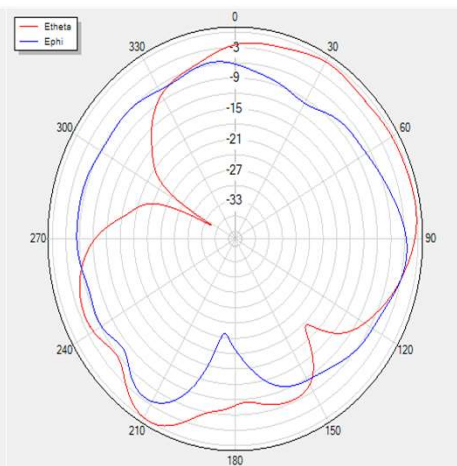
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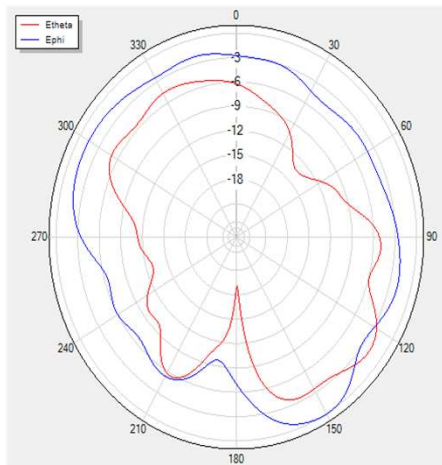
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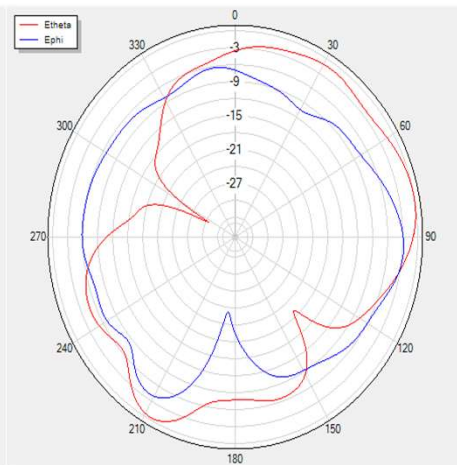
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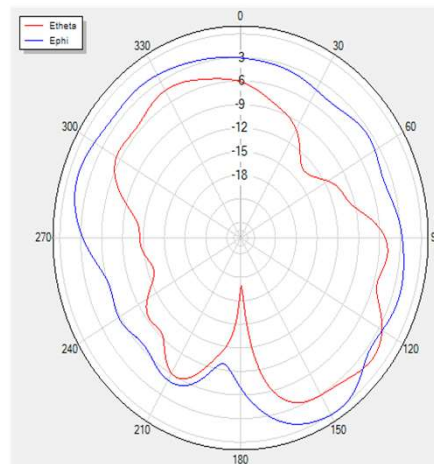
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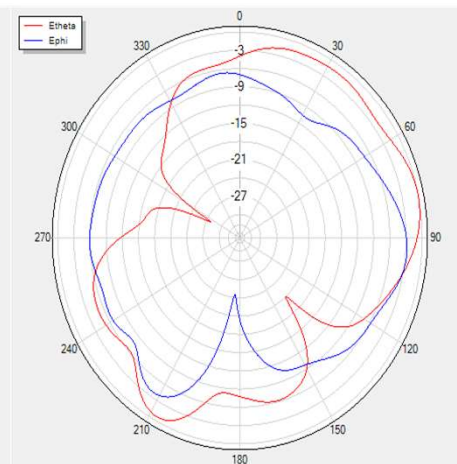
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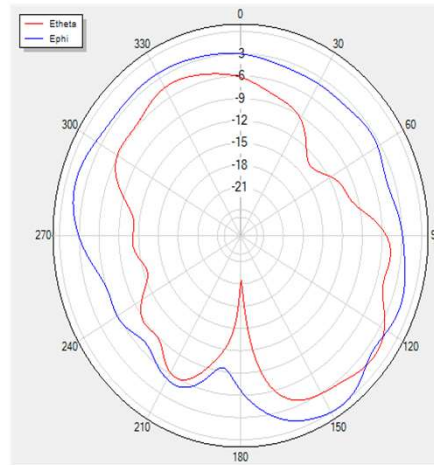
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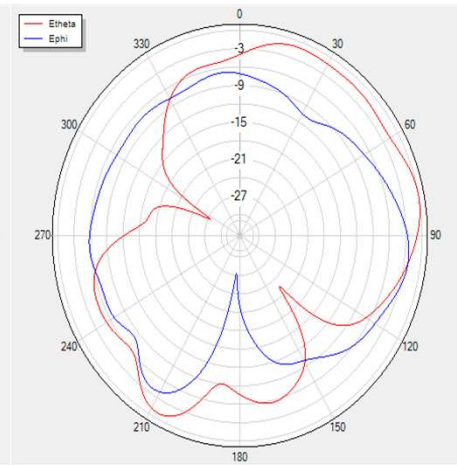
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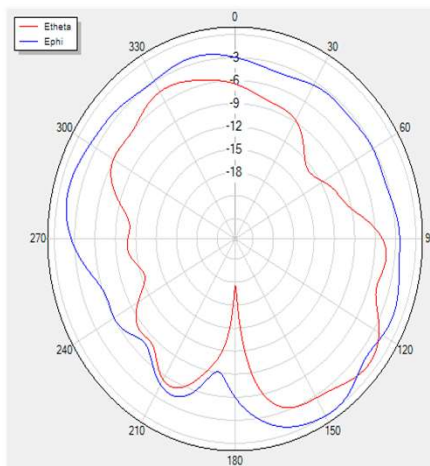
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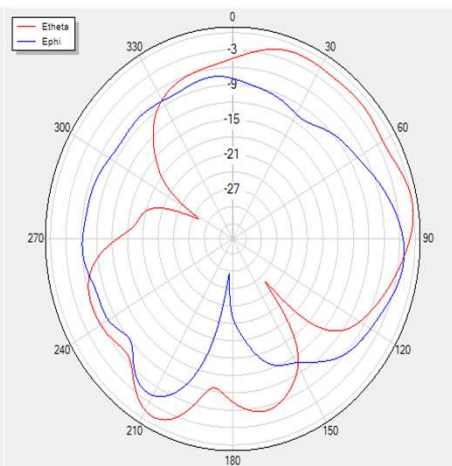
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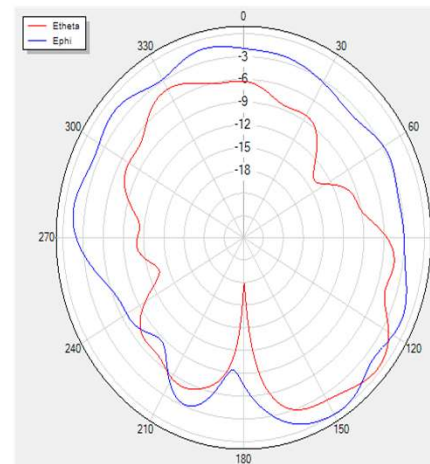
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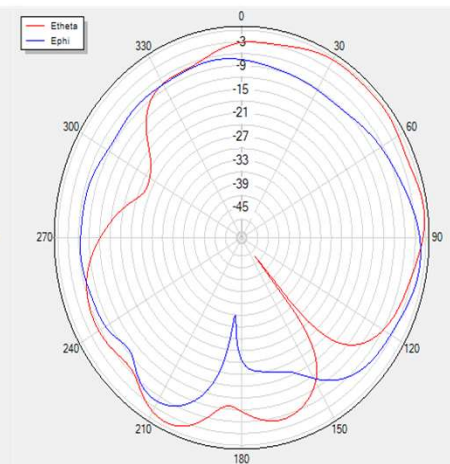
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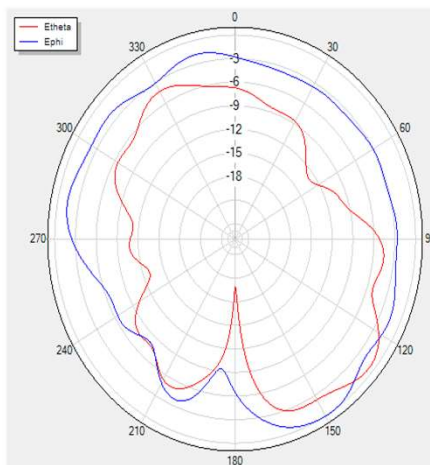
V Phi=90 freq=2470MHz



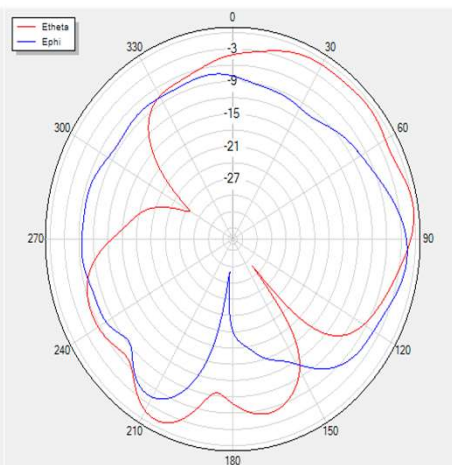
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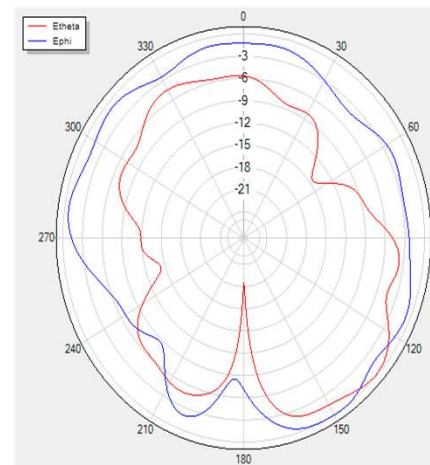
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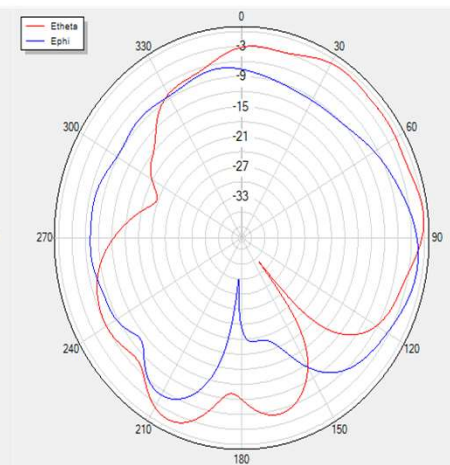
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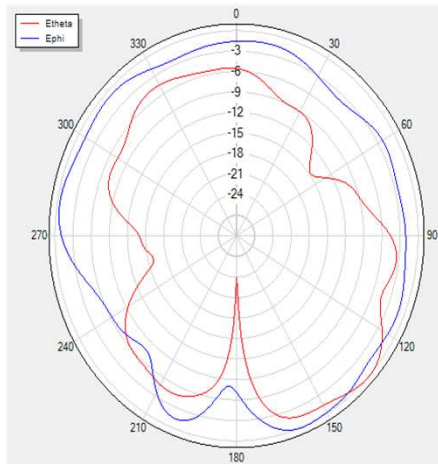
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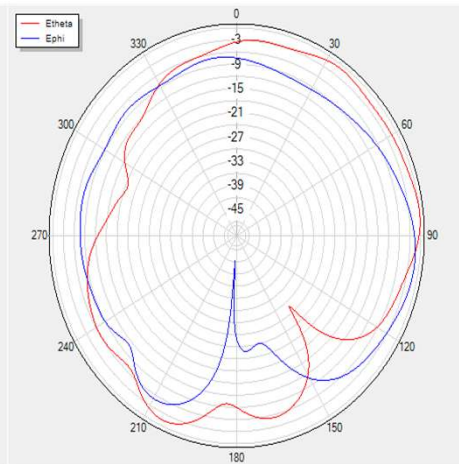
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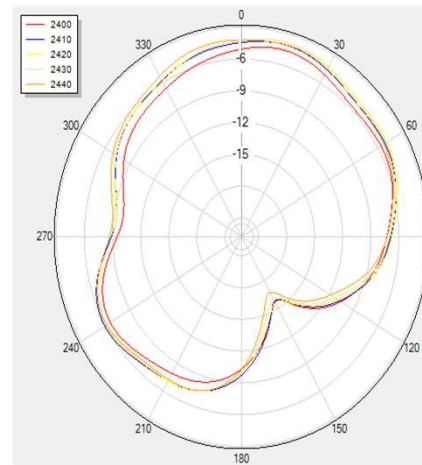
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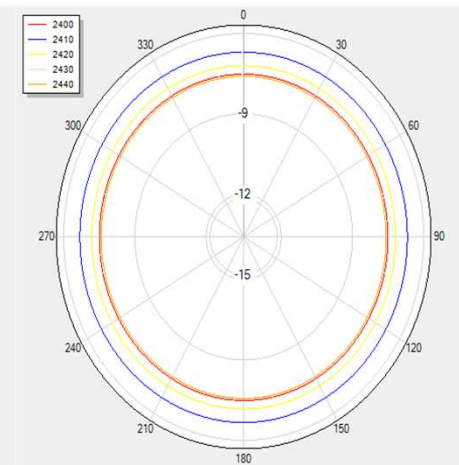
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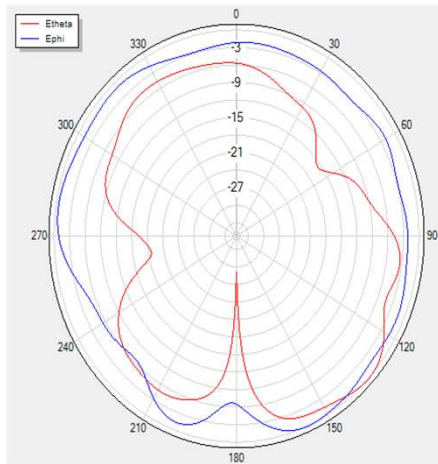
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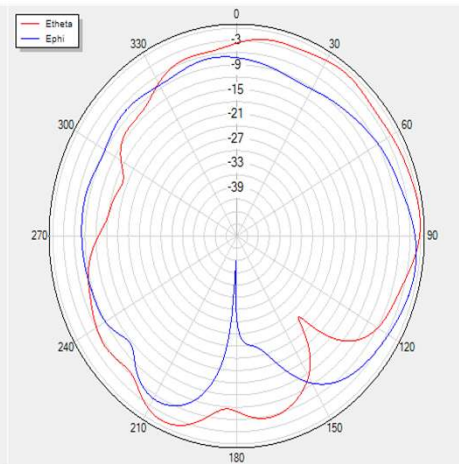
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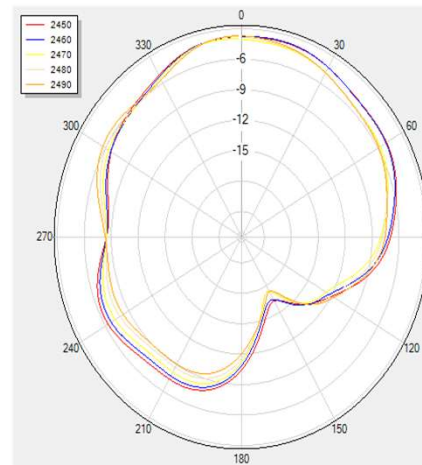
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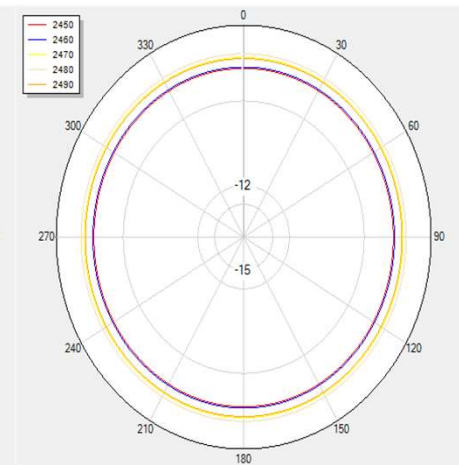
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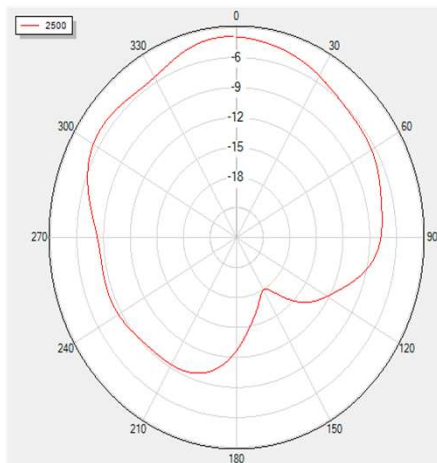
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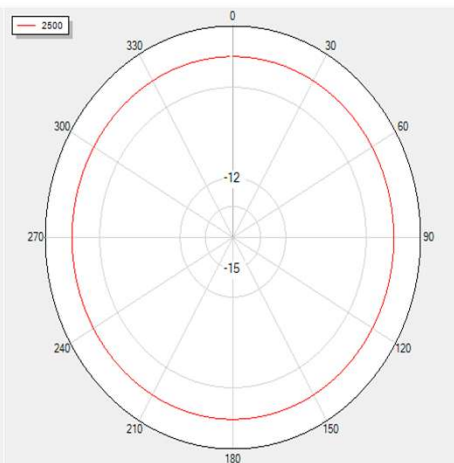
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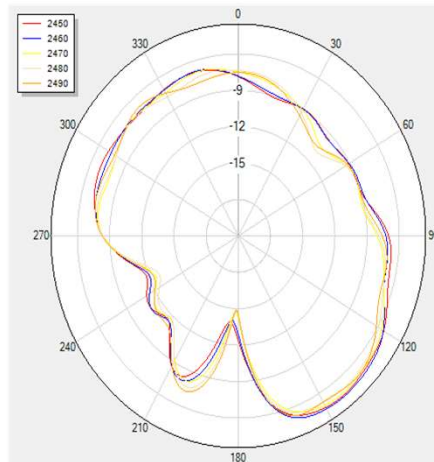
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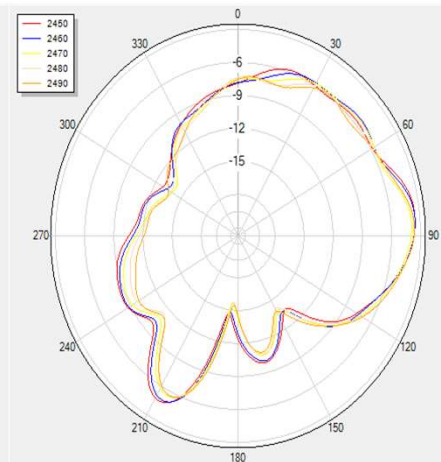
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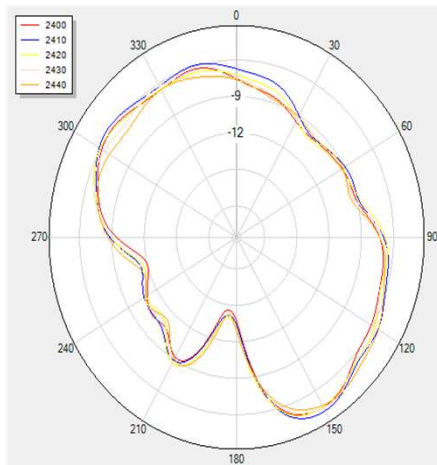
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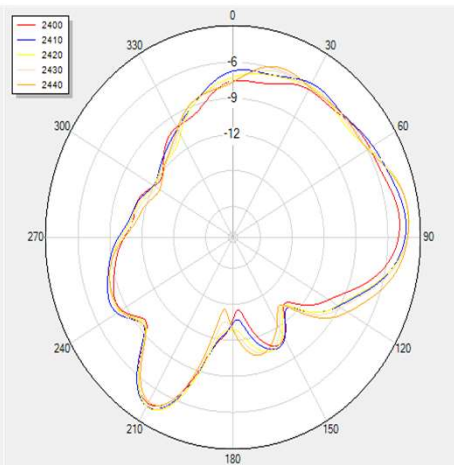
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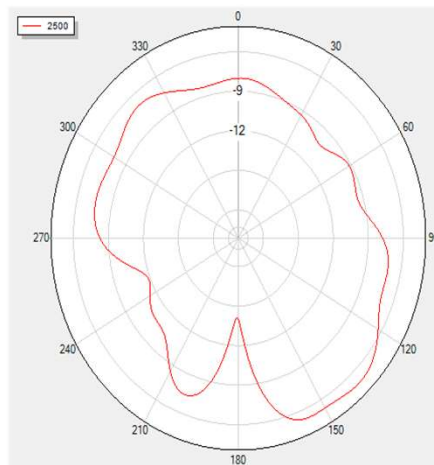
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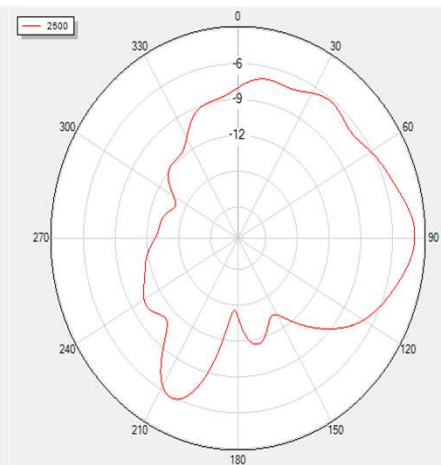
V Phi=0



V Phi=90



V Phi=0



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.