

# Bluetooth Antenna Debugging Report

2. 4Ghz Team

V1.0

2024. 1. 16

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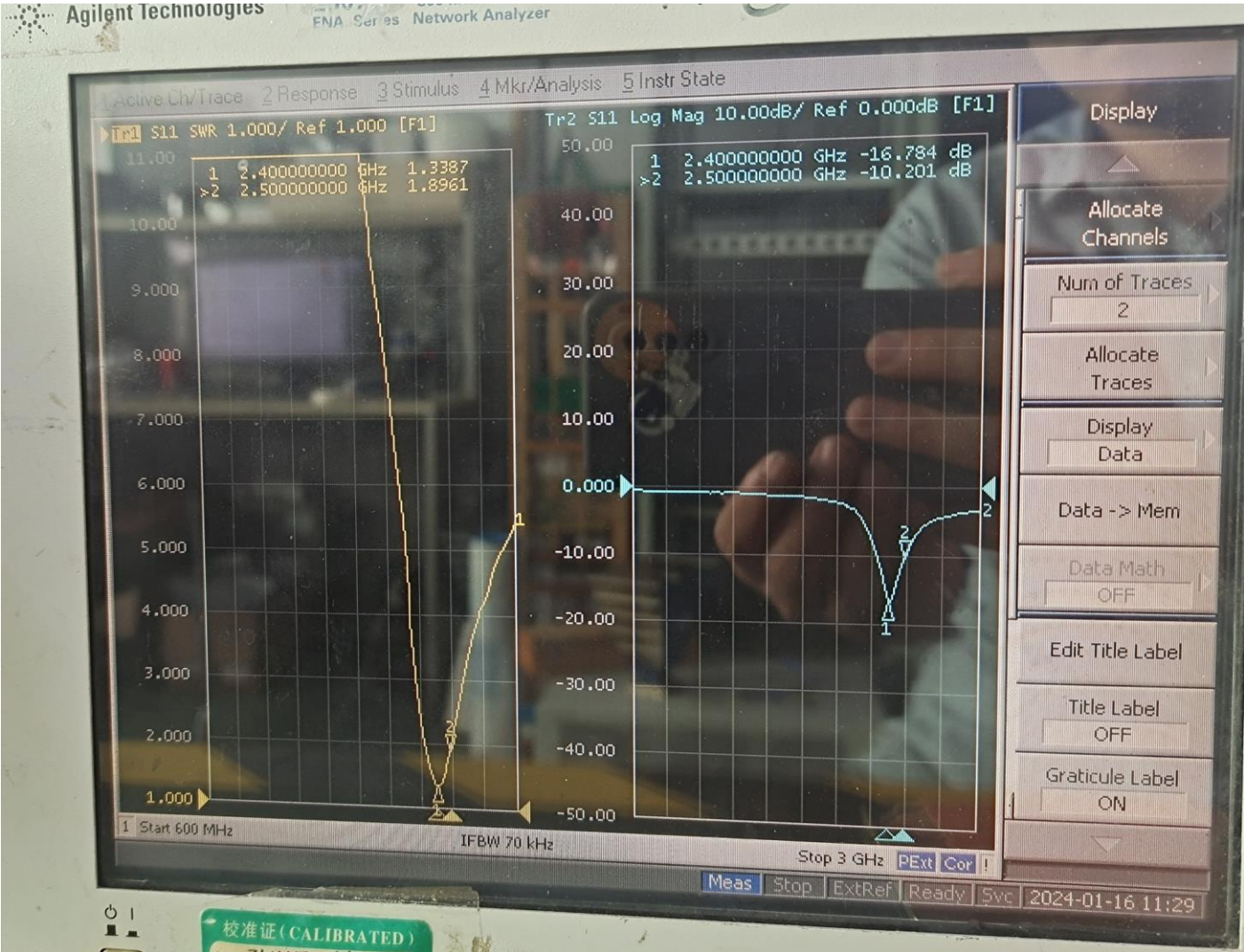
- Version Description

Version	Date	Description
V1.0	2024.1.16	Debugging report

# Physical picture



# Passive modulation attempt: return loss,

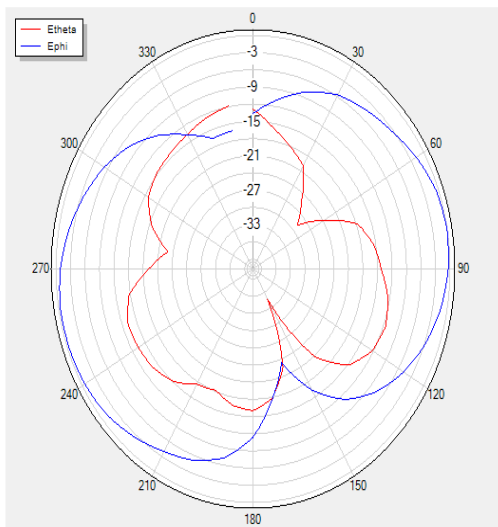


Gain&Efficiency				
frequency	gain	mingain	efficiency	efficiency
频率(MHz)	增益(dBi)	最小增益	效率(dBi)	效率(%)
2400	1.38	-27.08	-3.29	46.86
2410	0.94	-26.38	-3.35	46.23
2420	1.4	-24.06	-2.99	50.21
2430	1.24	-23.1	-3.12	48.75
2440	1.06	-22.16	-3.28	46.95
2450	1.28	-20.79	-3.31	46.72
2460	1.26	-20.26	-3.41	45.59
2470	1.2	-20.33	-3.27	47.12
2480	1.07	-21.38	-3.53	44.37
2490	1.07	-21.72	-3.38	45.90
2500	0.53	-21.79	-3.61	43.60

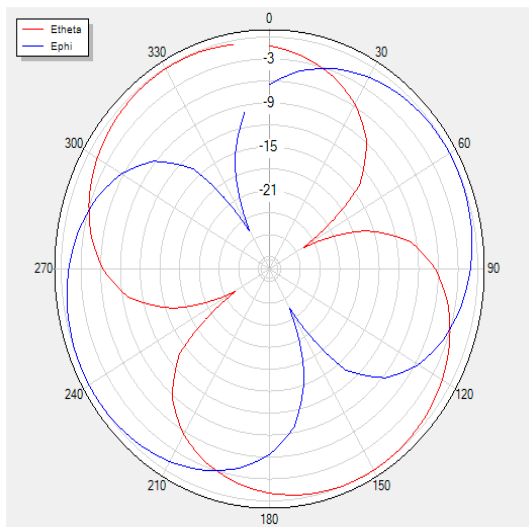
Horizontal

# • Direction diagram

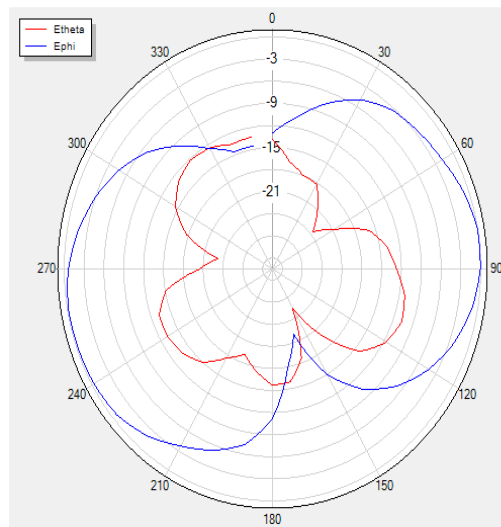
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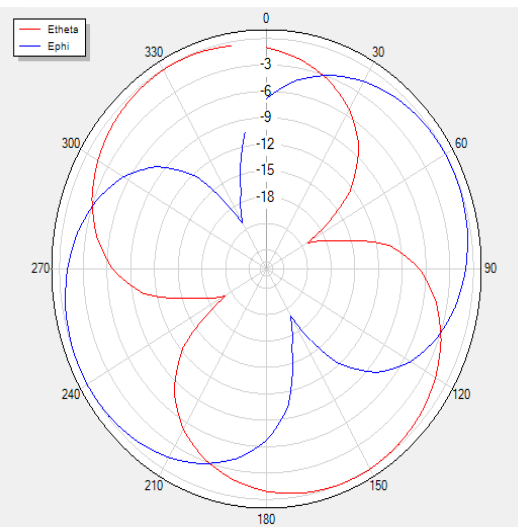
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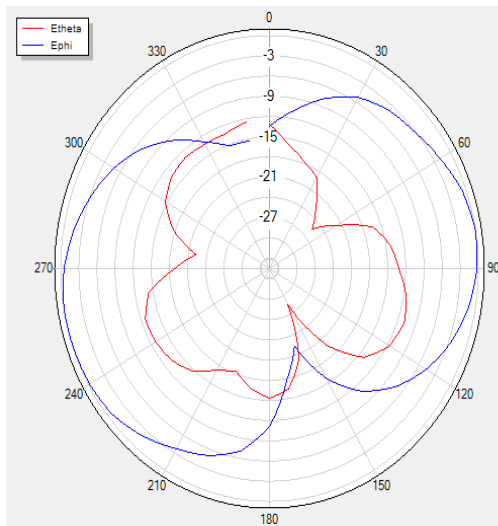
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H Theta=0 freq=2420MHz



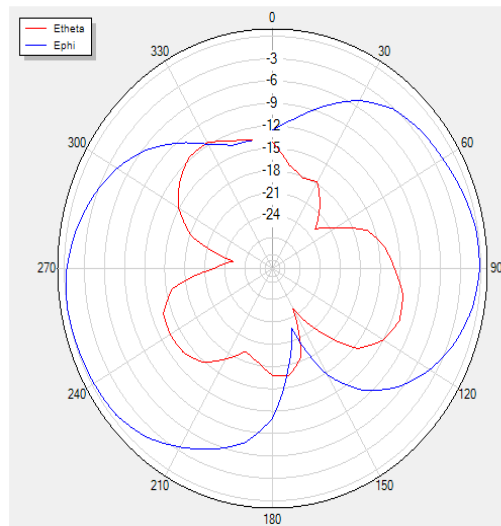
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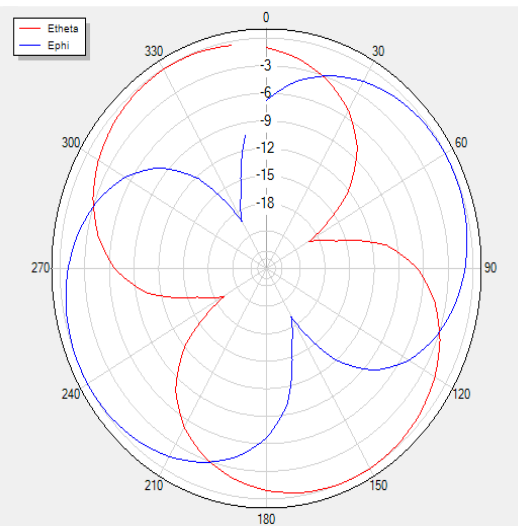
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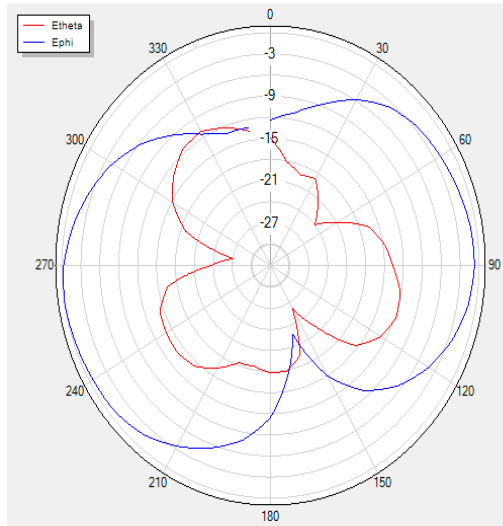
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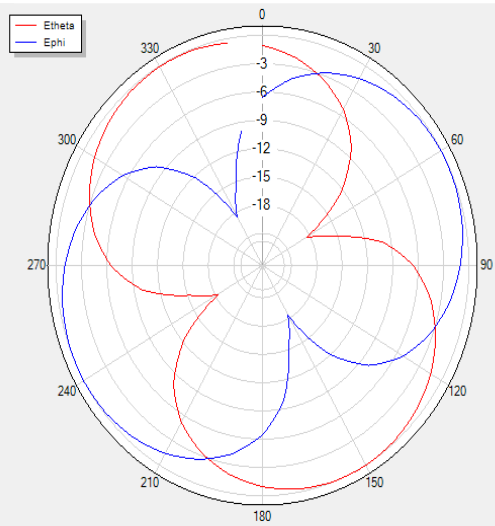
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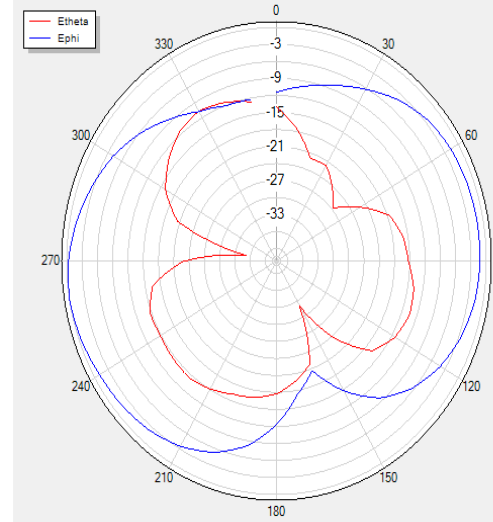
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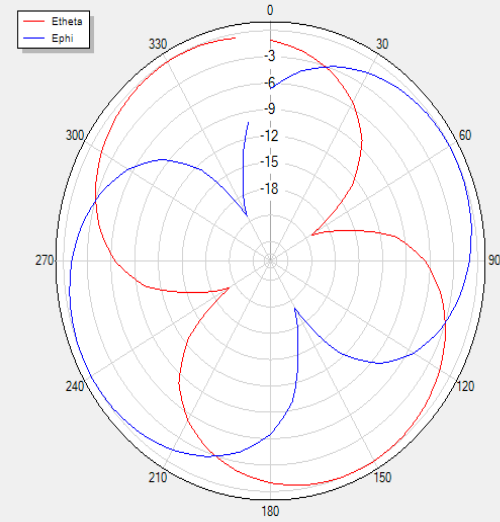
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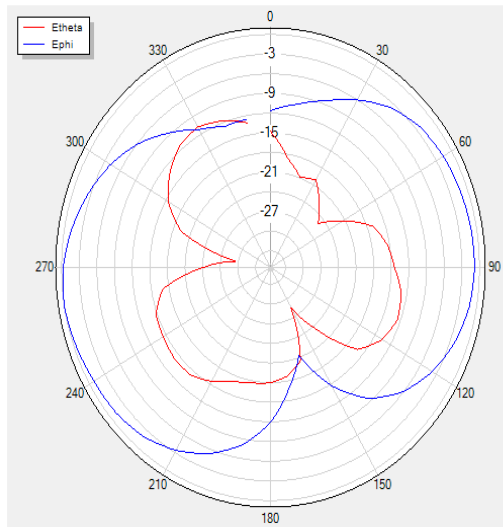
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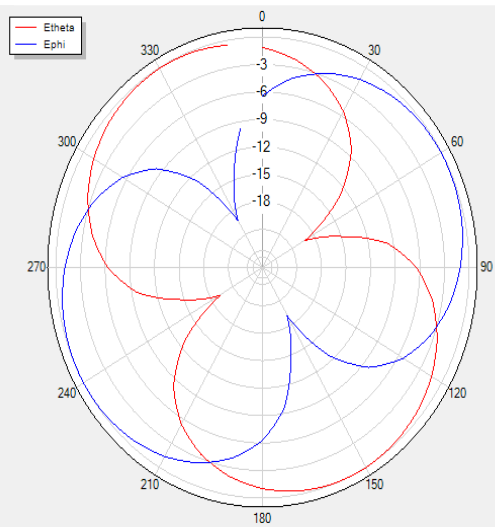
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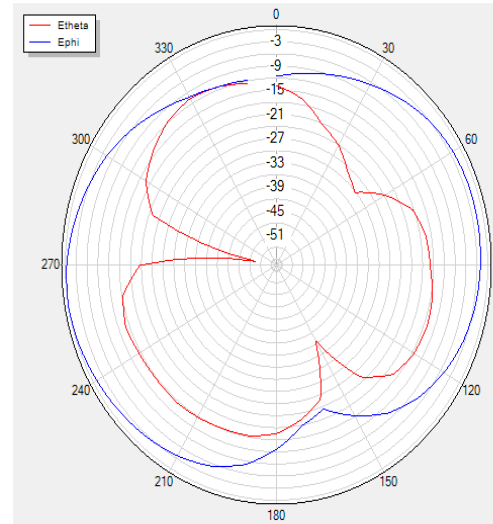
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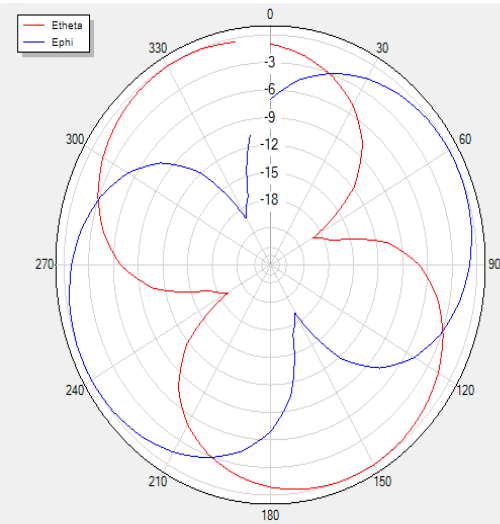
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H Theta=90 freq=2470MHz

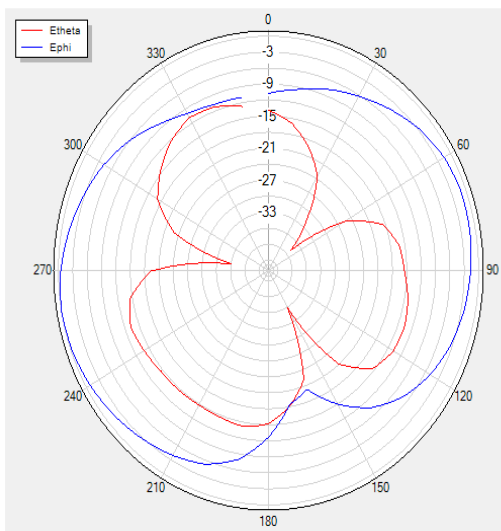


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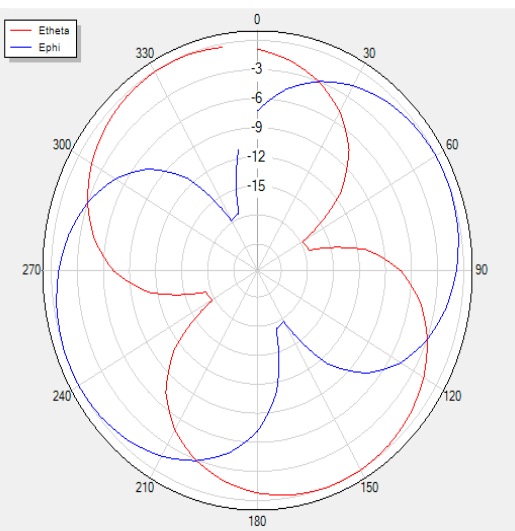




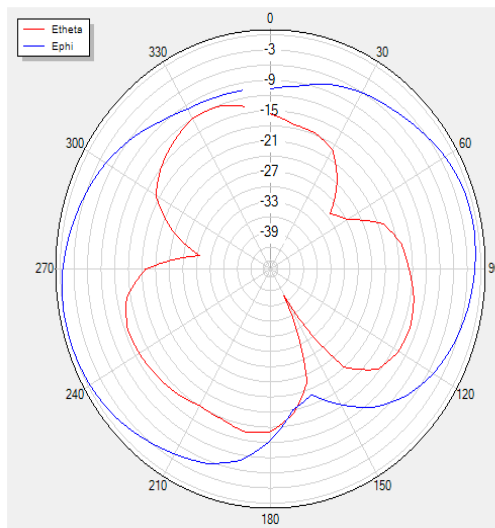
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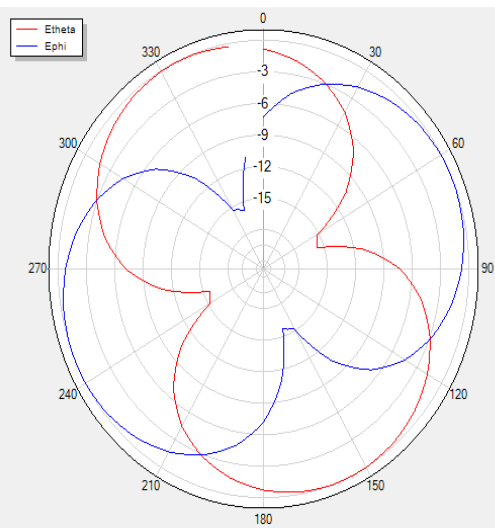
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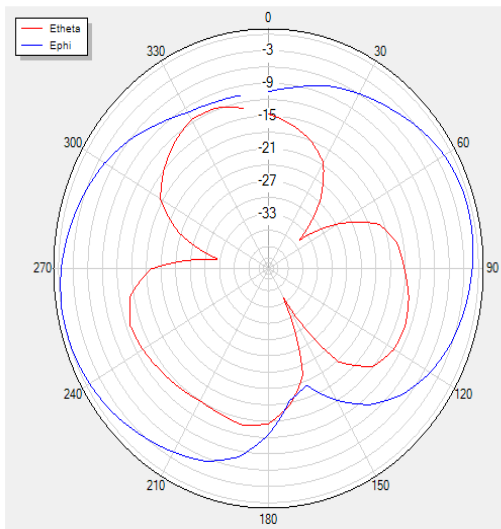
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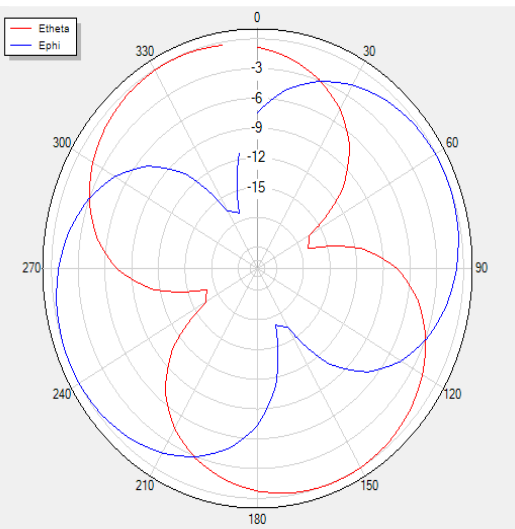
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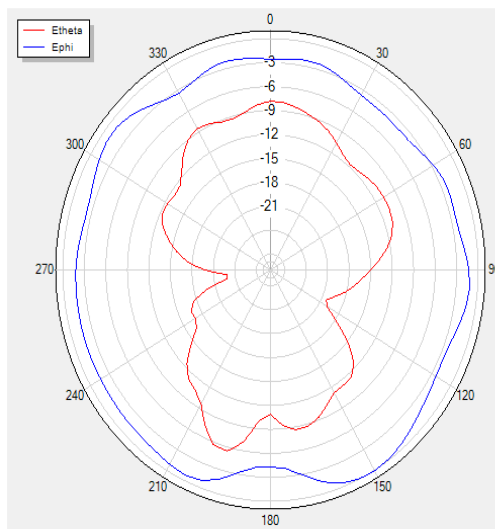
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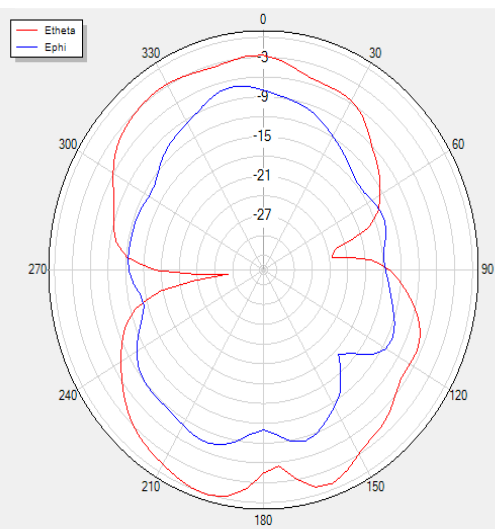
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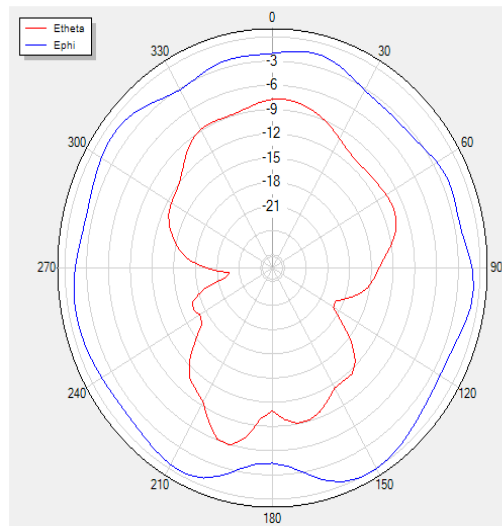


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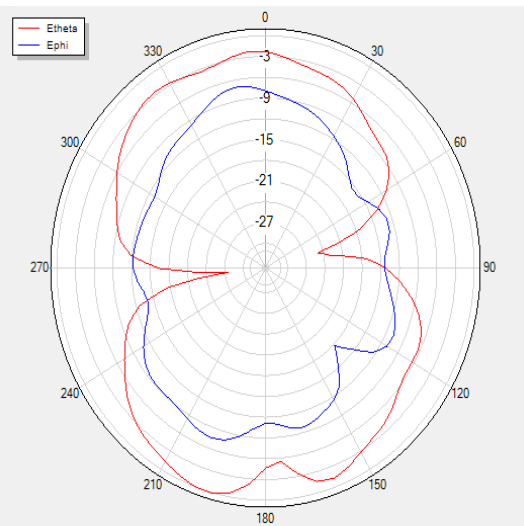




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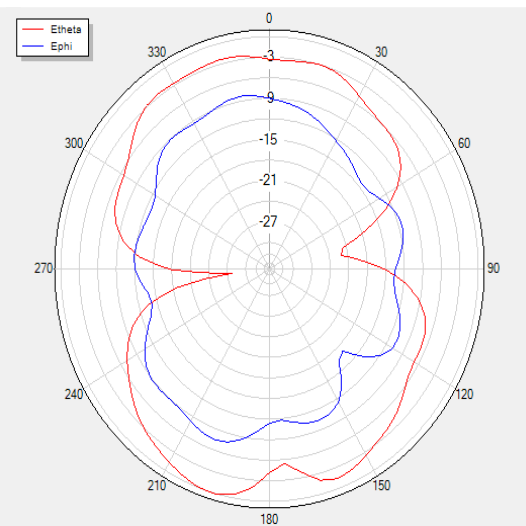
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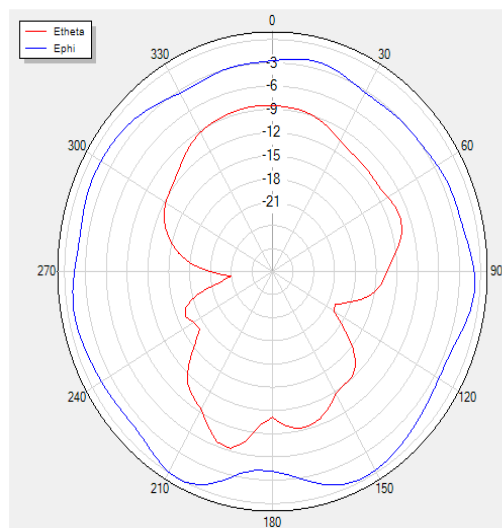
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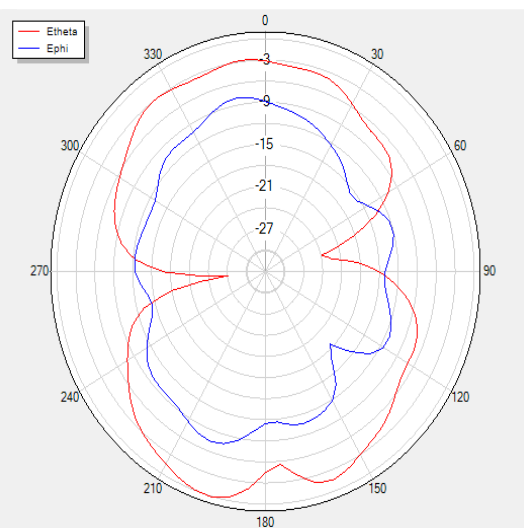
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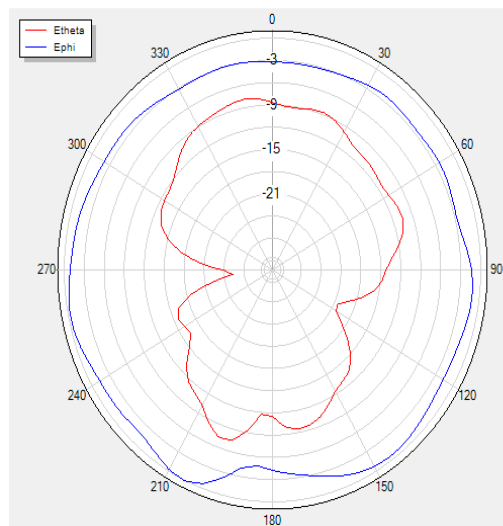
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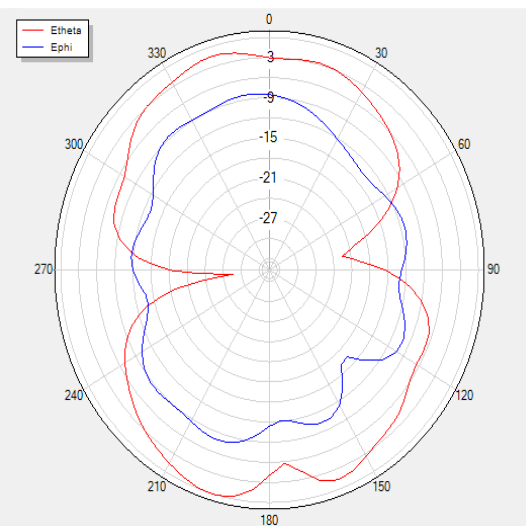
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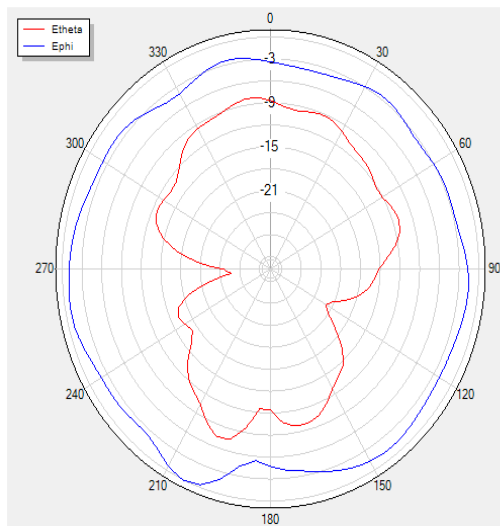
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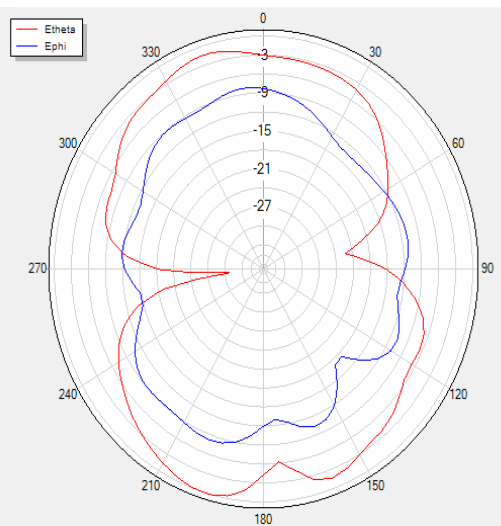
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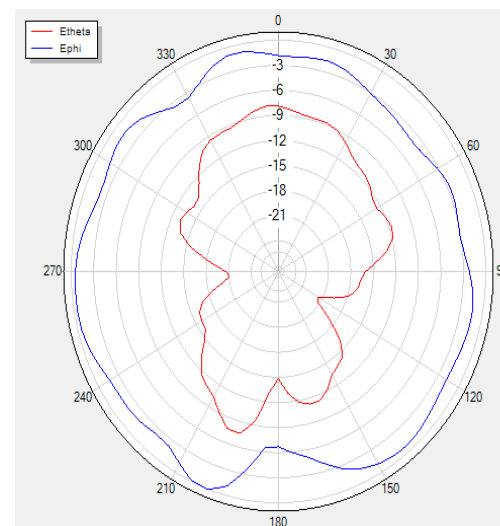
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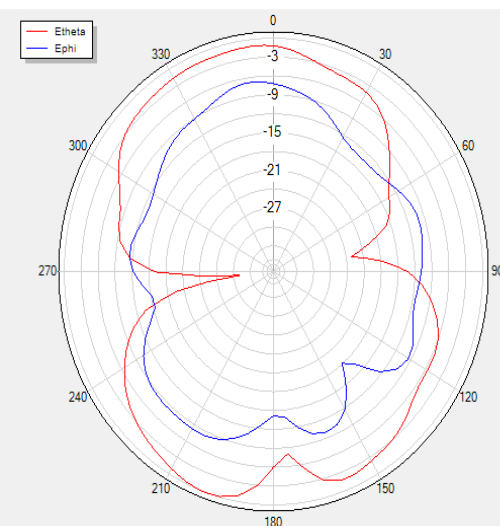
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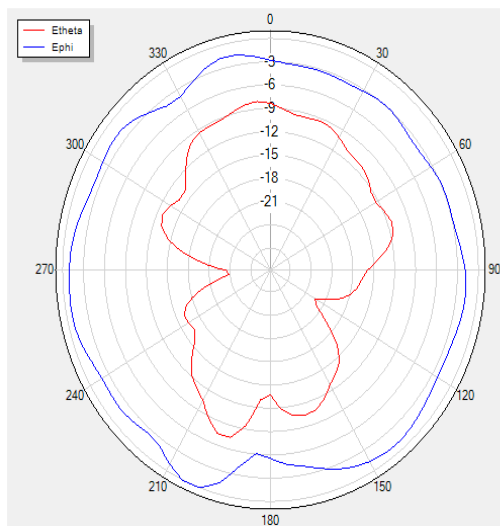
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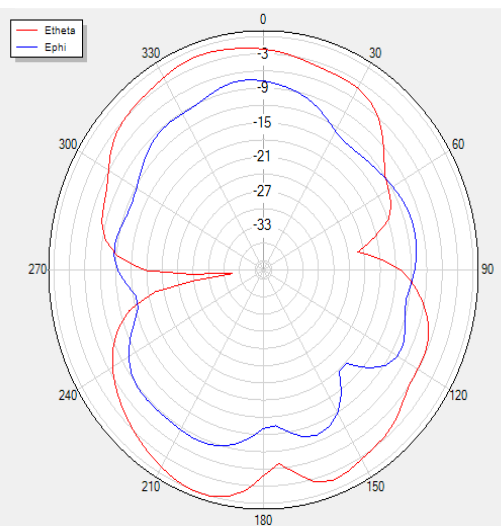
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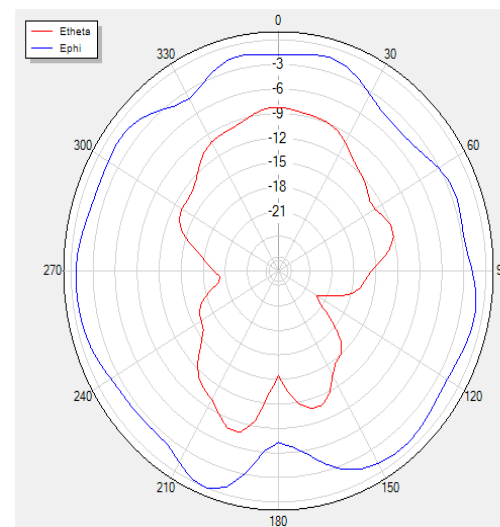
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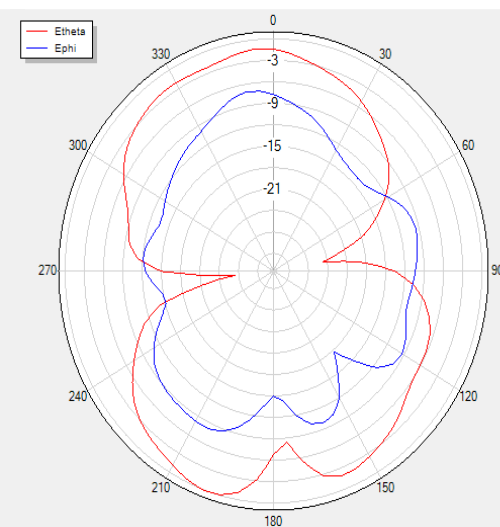
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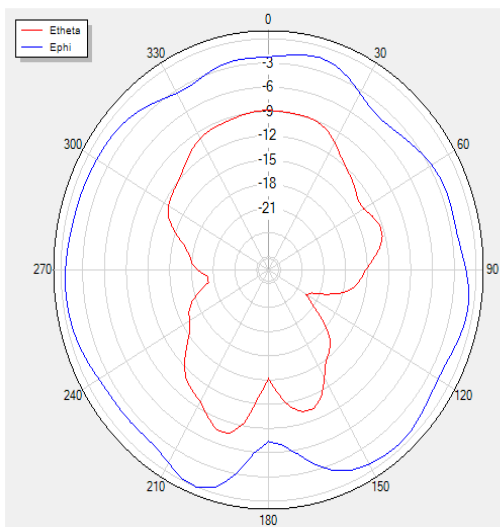
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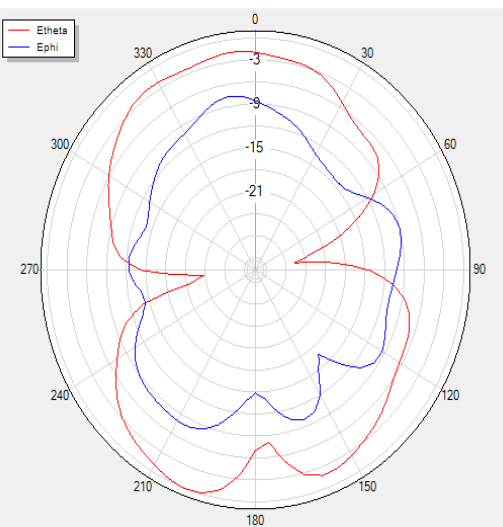
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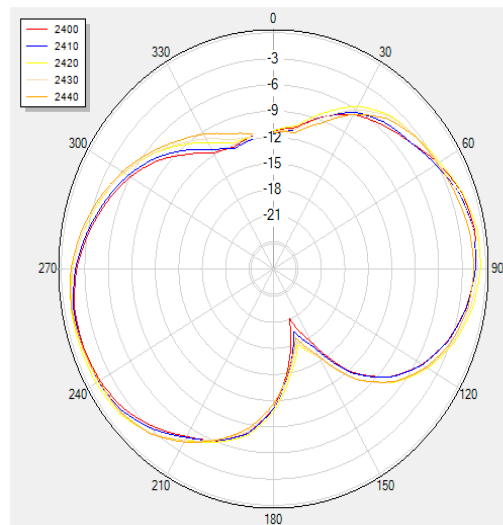
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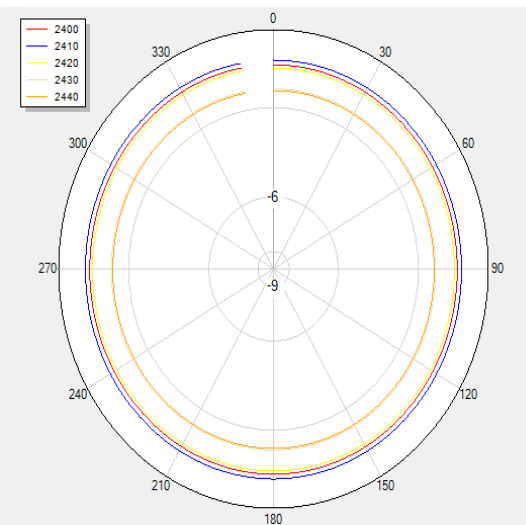
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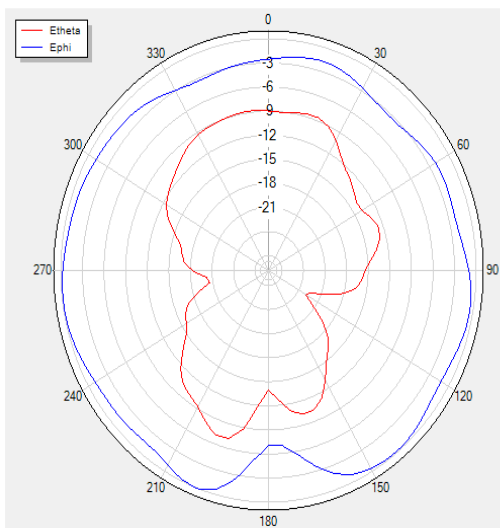
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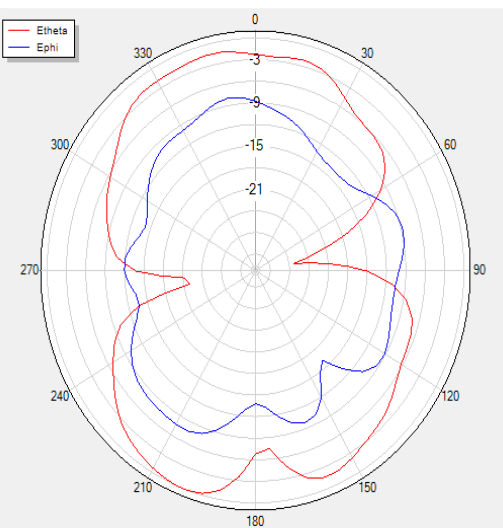
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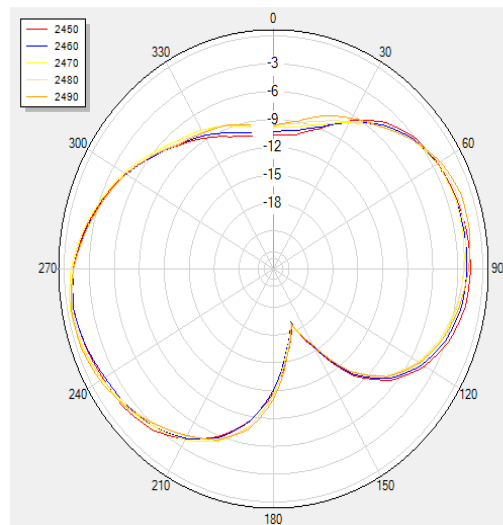
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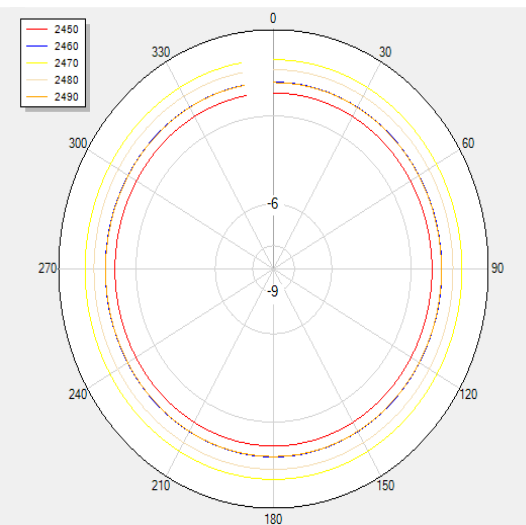
V Phi=0 freq=2500MHz



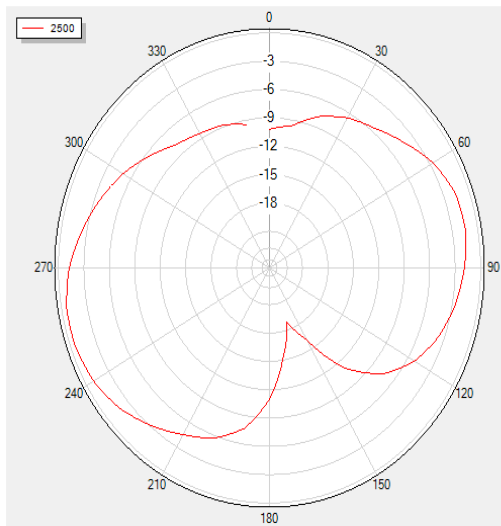
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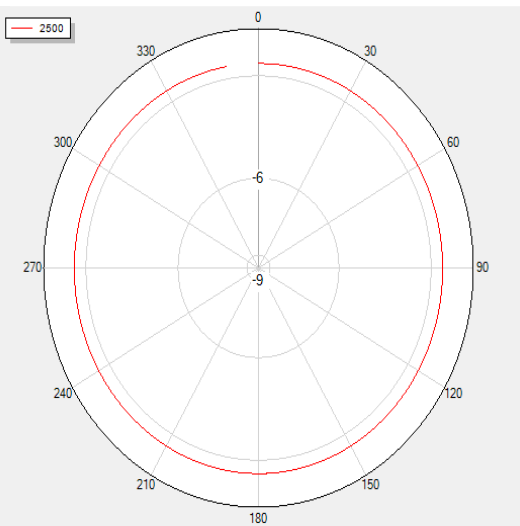
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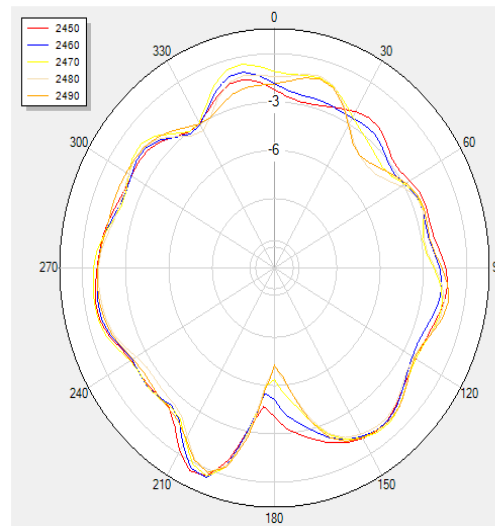
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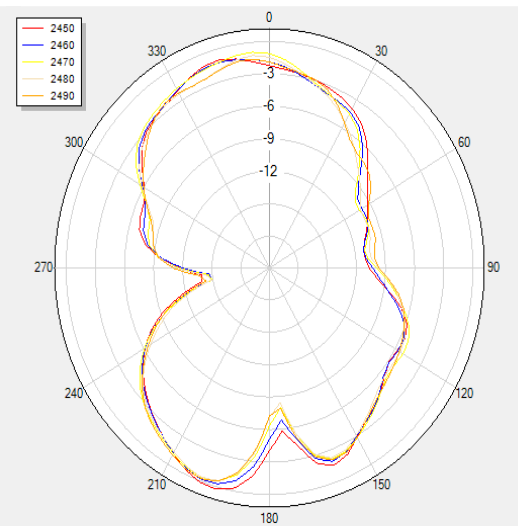
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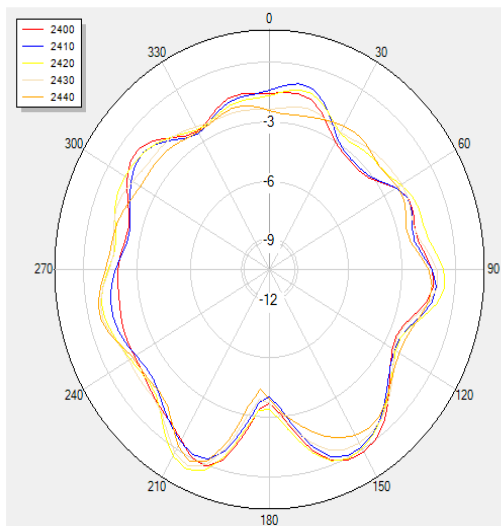
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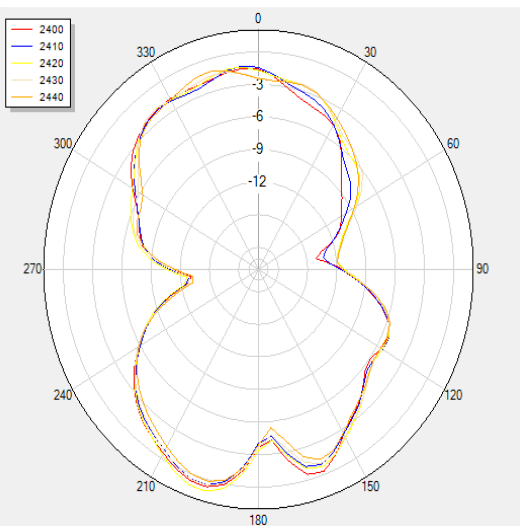
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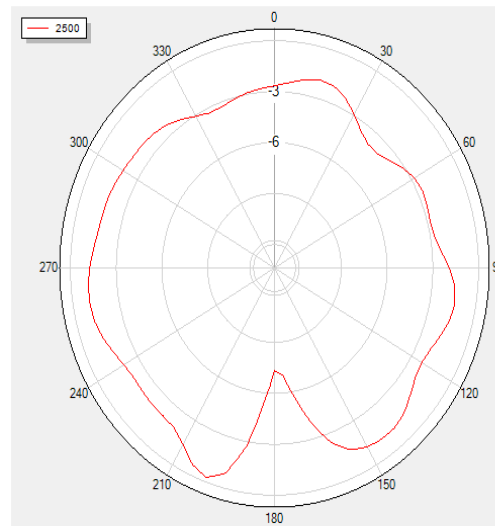
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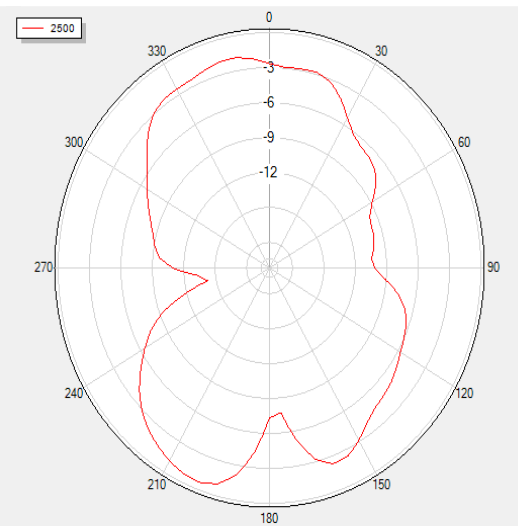
V Phi=0



V Phi=90



V Phi=0



# Conclusion

1. For the basis used in subsequent production, please ensure that the software and hardware are completely consistent before importing to guarantee consistency.