



SHENZHEN ANWEI WIRELESS TECHNOLOGY CO., LTD

Industry leading manufacturer of one-stop communication RF antenna solutions

Test Report of ZhidingYun Bluetooth antenna

RF: Mr. Huang

Tel: 13510548234

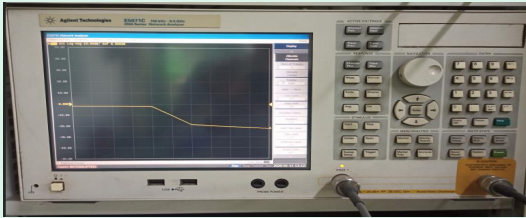
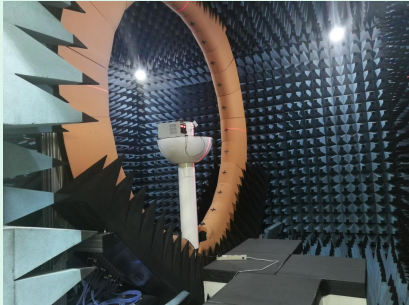
Version: 20211203 V1

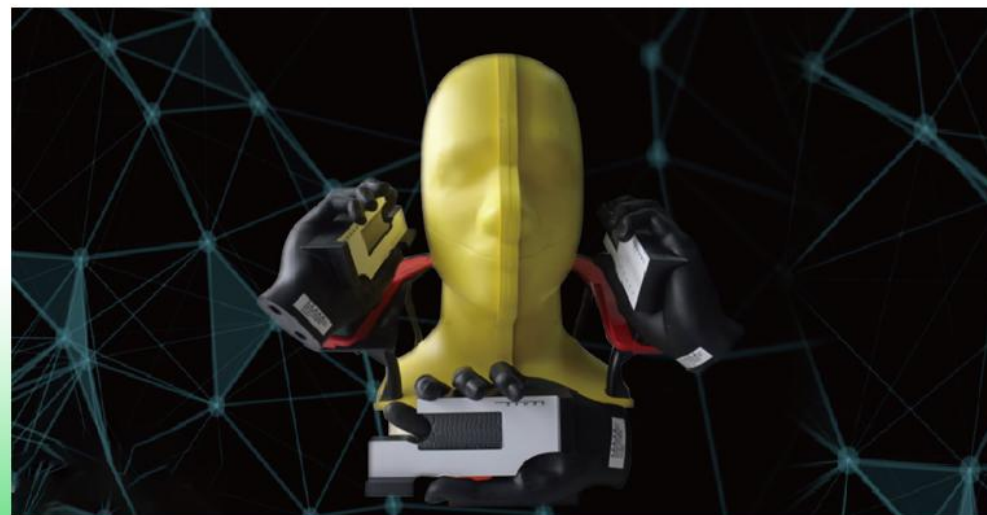
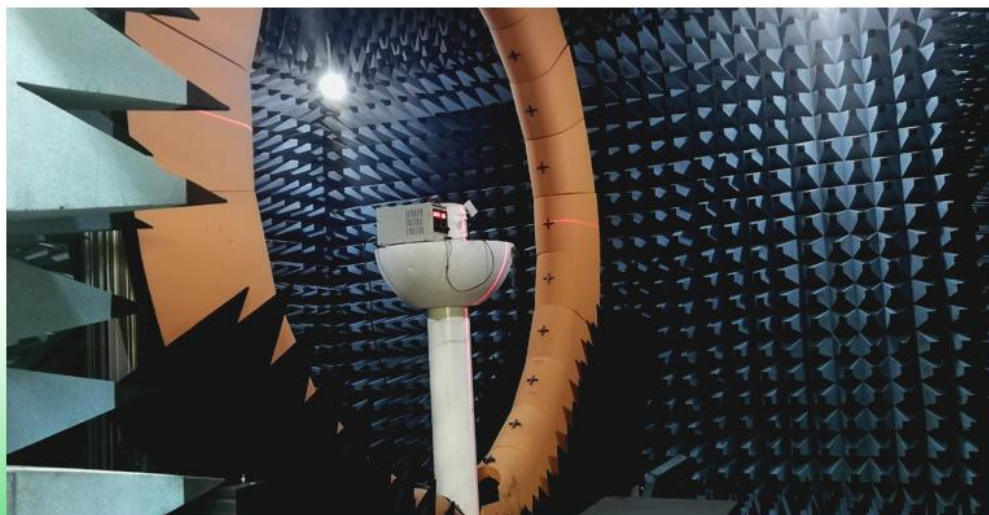
Time: 2021.12.03

WORK TOGETHER TO CREATE THE FUTURE

-  Introduction to Project Testing
-  Project development environment
-  Prototype introduction
-  Specification parameters
-  OTA microwave darkroom test data

 Introduction to project testing

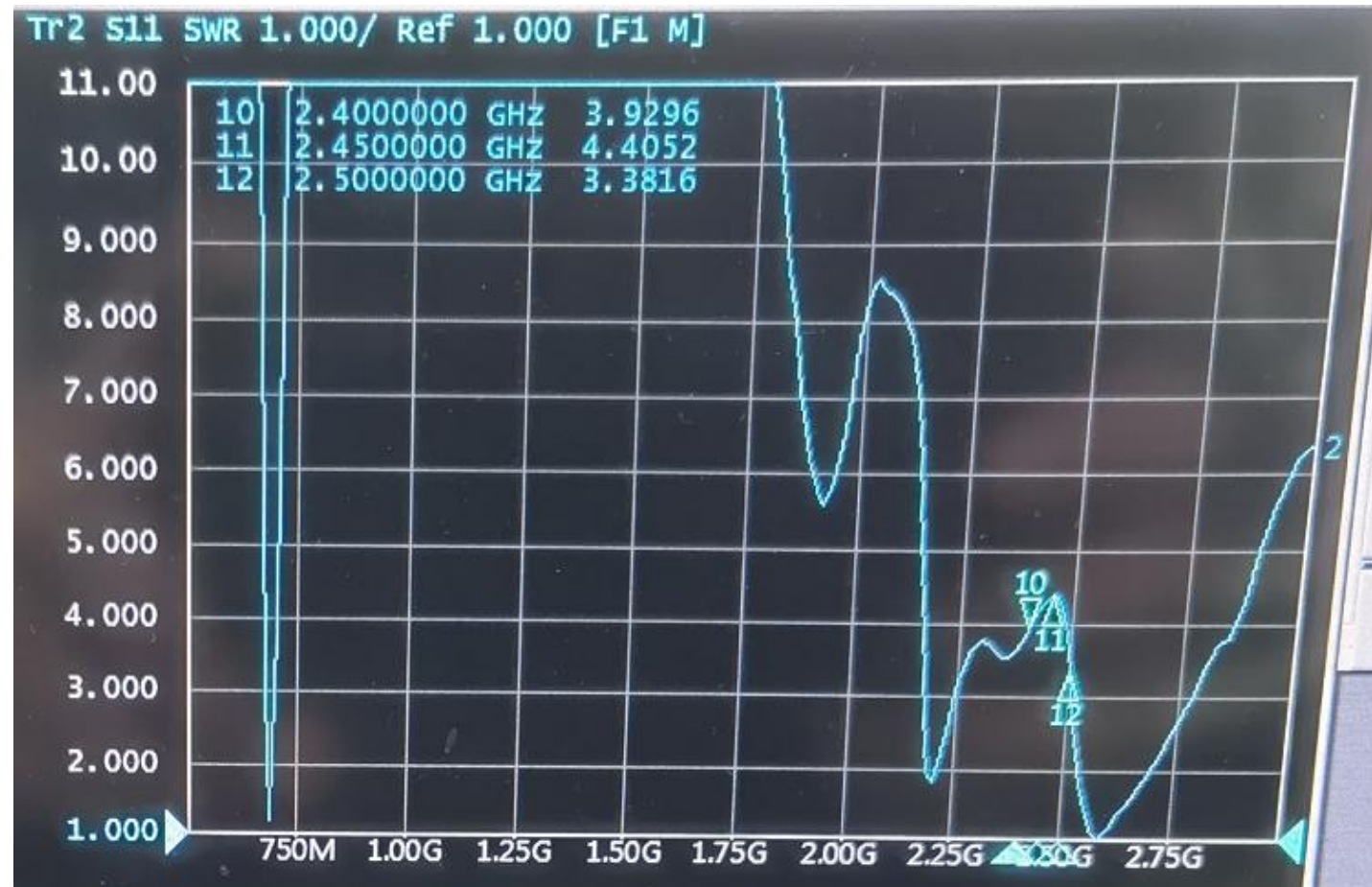
Product name	Helmet Bluetooth headset		
Frequency band and Antenna material	Working frequency		Material Science
	Bluetooth	2.4GHz	PCB
Test instrument	Brand	Agilent VNA	
	model	E5071C	
	Brand	OTA SATIMO-24 (3D)	



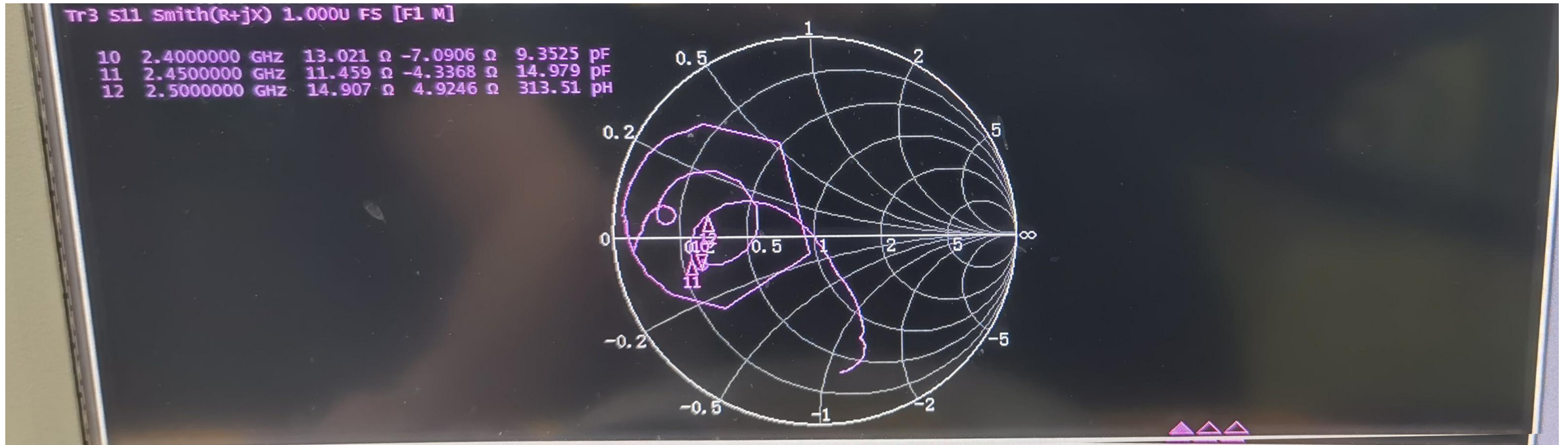
Anwei wireless has always been your trusted and excellent partner. We provide you with all-round one-stop products and technical services!



VSWR



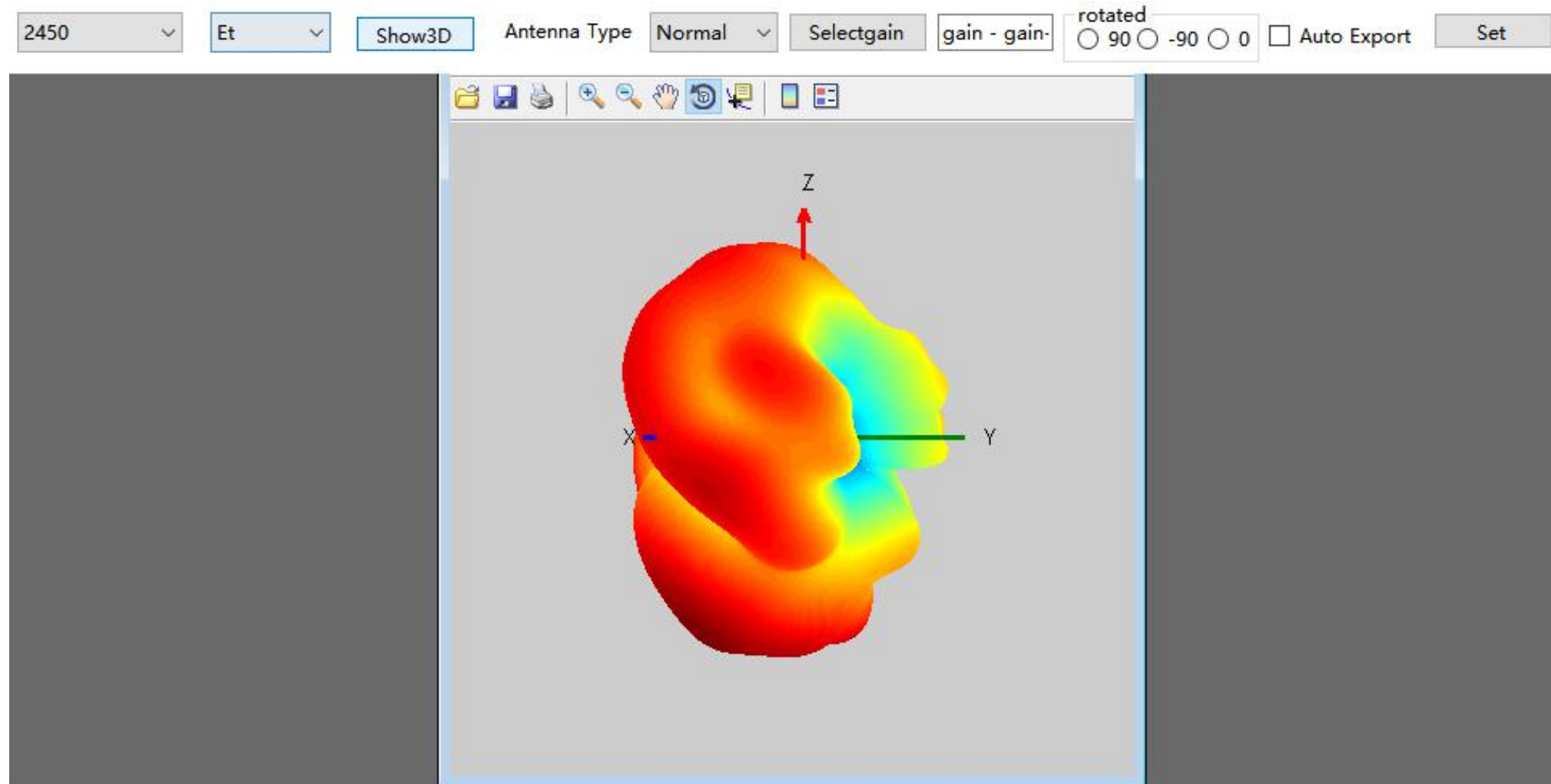
Smith chart



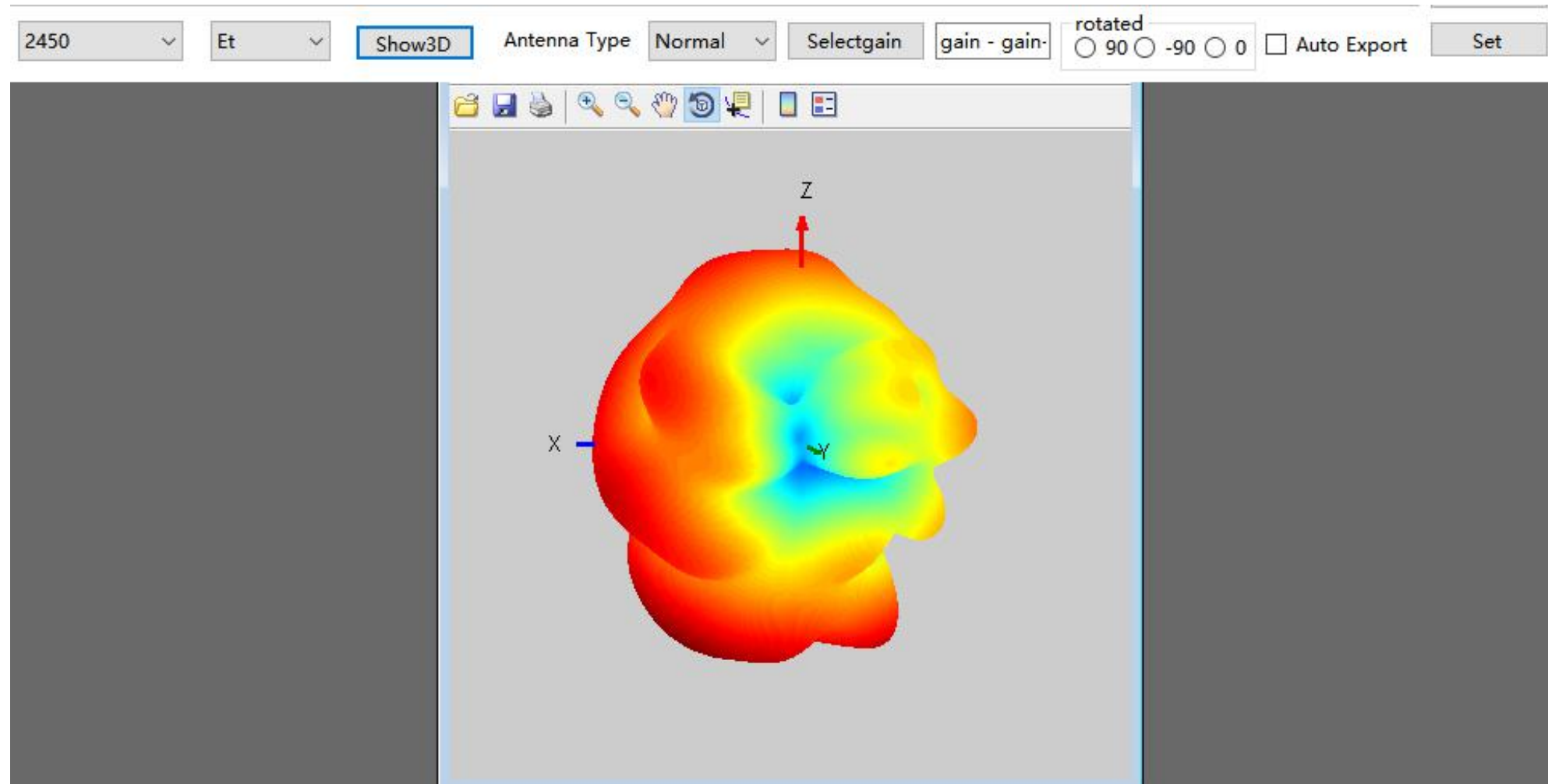
 Antenna Gain&Efficiency

Gain&Efficiency				
frequency (MHz)	gain (dBi)	mingain (dBi)	efficiency (dBi)	efficiency (%)
2400	-4.17	-27.05	-10	9.99
2410	-5.02	-25.41	-10.73	8.46
2420	-5.36	-24.26	-11.72	6.73
2430	-5.72	-24.47	-11.83	6.56
2440	-6.61	-26.77	-12.69	5.38
2450	-6.41	-29.05	-12.73	5.34
2460	-7.37	-34.2	-13.77	4.19
2470	-7.36	-36.21	-13.28	4.70
2480	-7.5	-29.27	-13.72	4.25
2490	-7.63	-26.62	-13.6	4.36
2500	-7.96	-27.78	-13.67	4.30

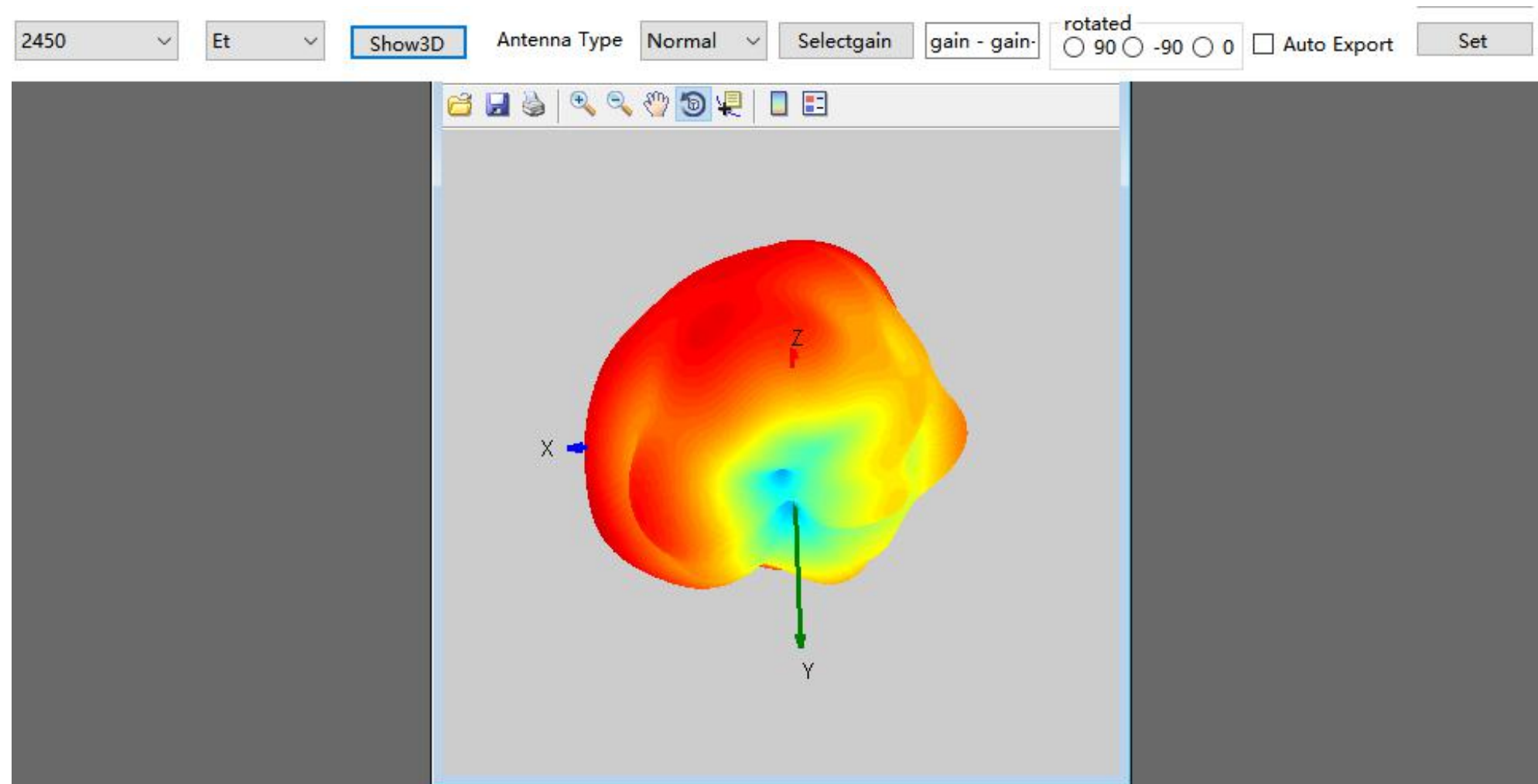
 Apple chart



 Apple chart

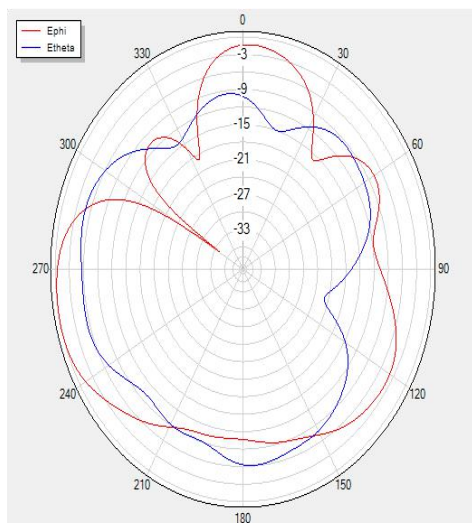


 Apple chart

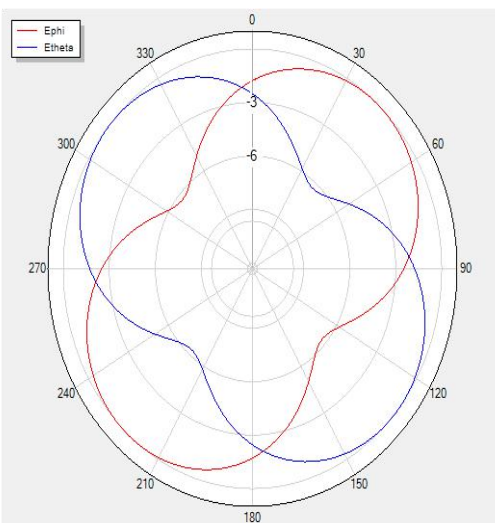


Pattern

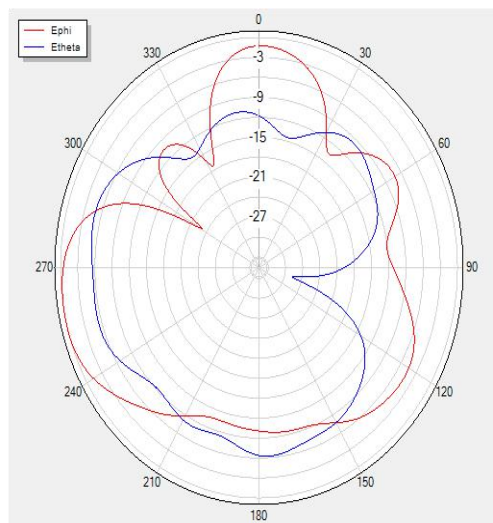
H Theta=90 freq=2400MHz



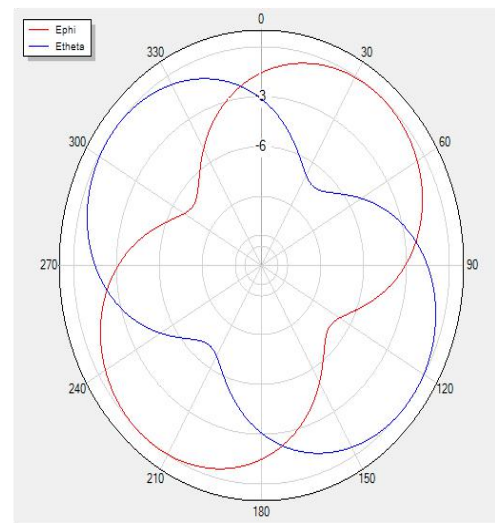
H Theta=0 freq=2400MHz



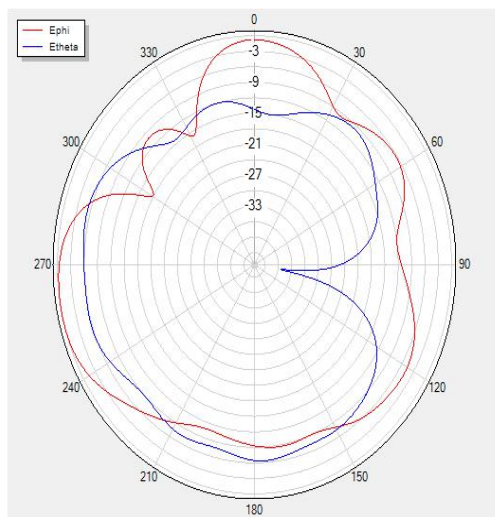
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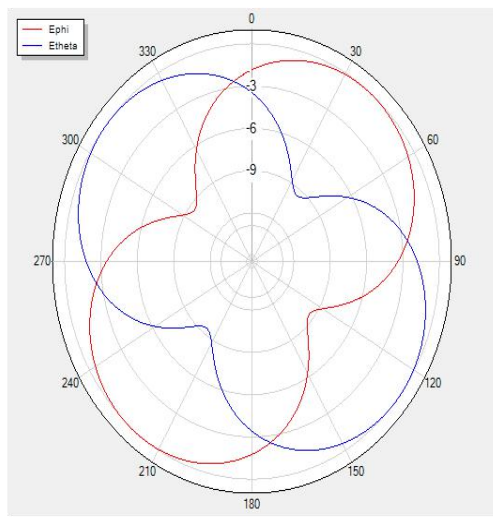
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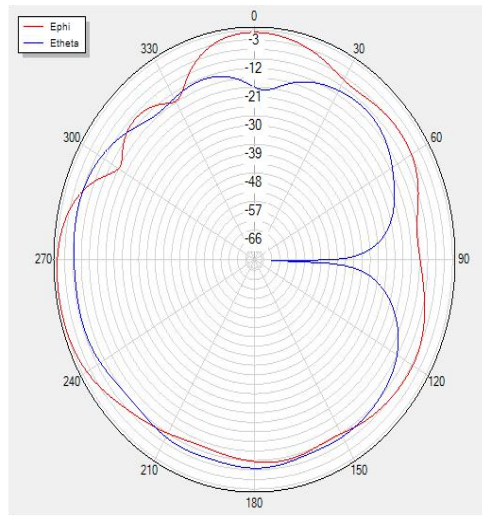
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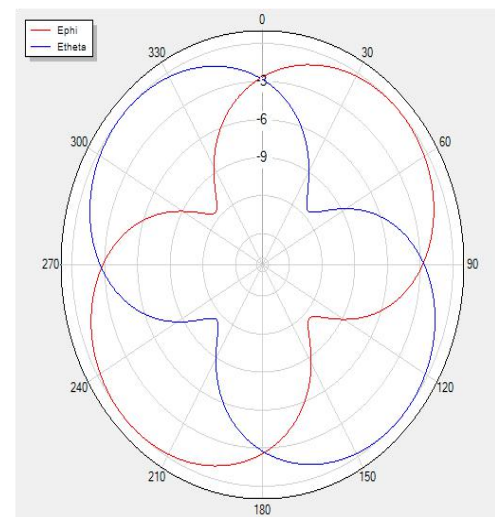
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H Theta=90 freq=2430MHz

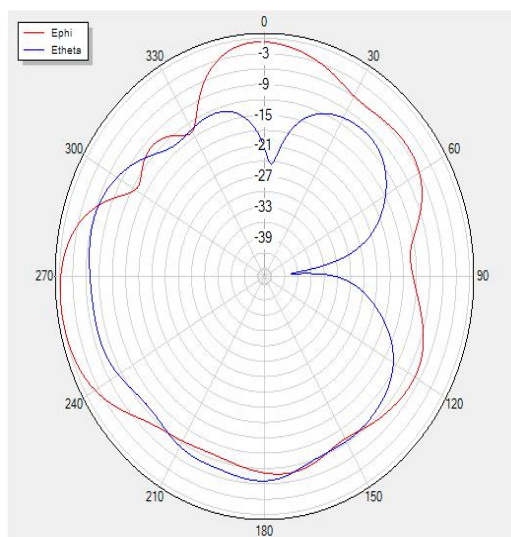


H Theta=0 freq=2430MHz

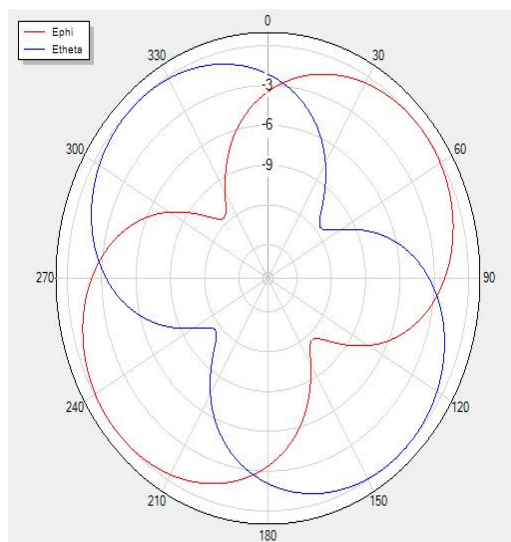




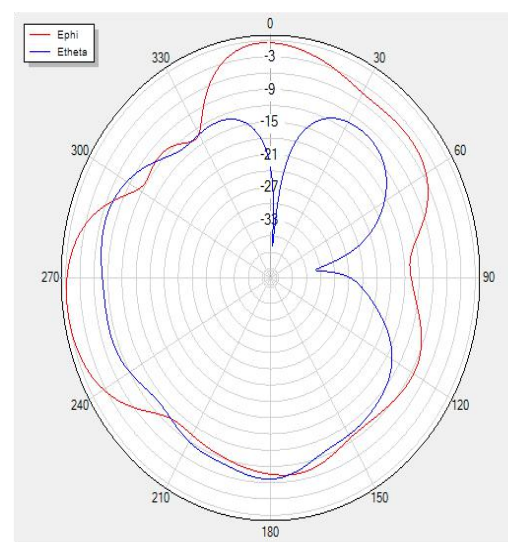
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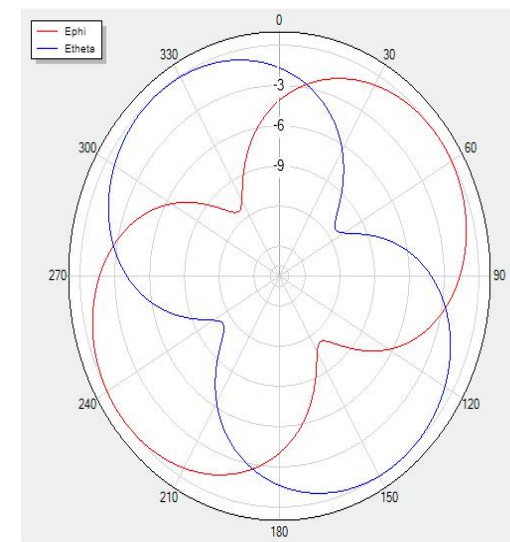
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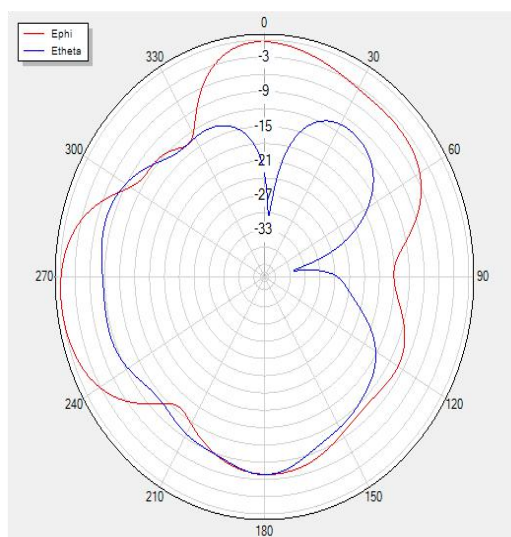
H Theta=90 freq=2450MHz



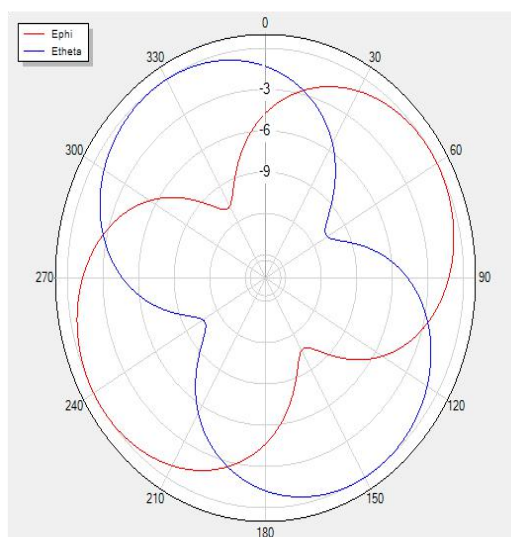
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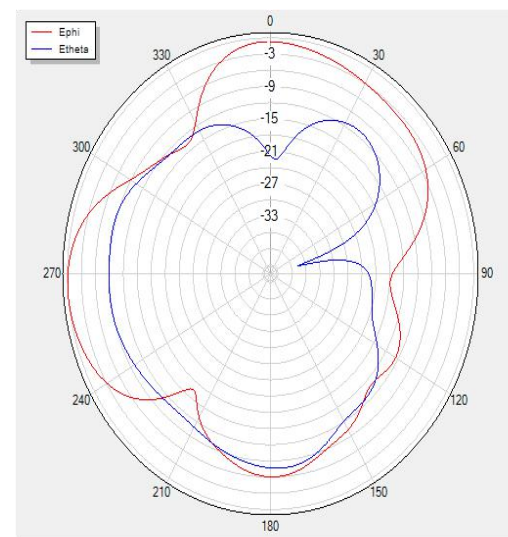
H Theta=90 freq=2460MHz



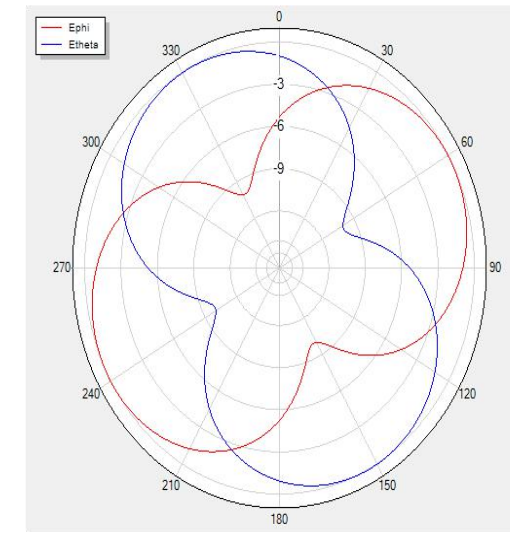
H Theta=0 freq=2460MHz



H Theta=90 freq=2470MHz

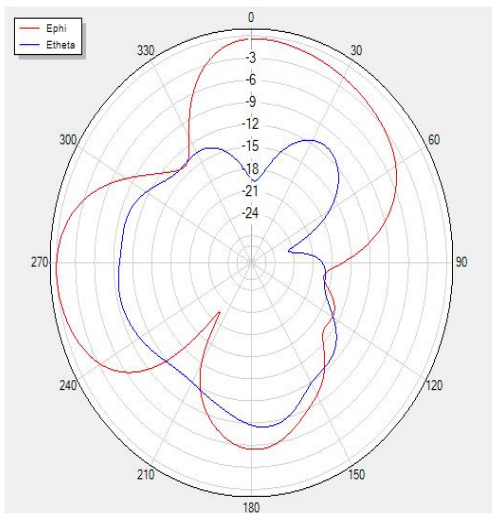


H Theta=0 freq=2470MHz

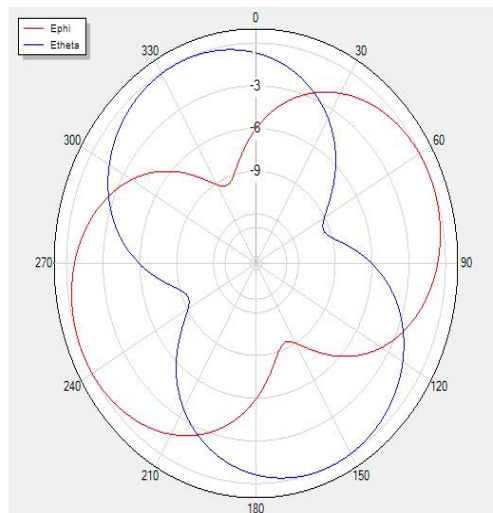


 方向图

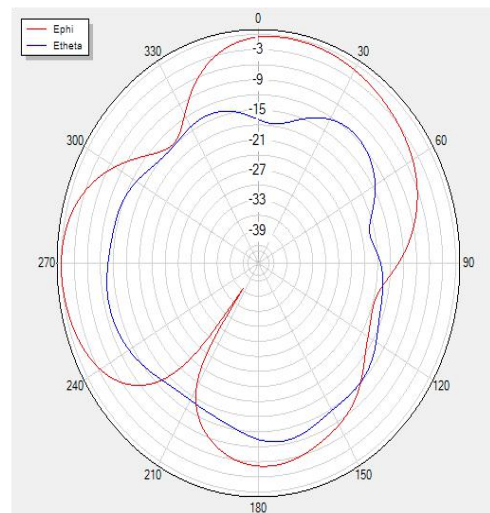
H Theta=90 freq=2480MHz



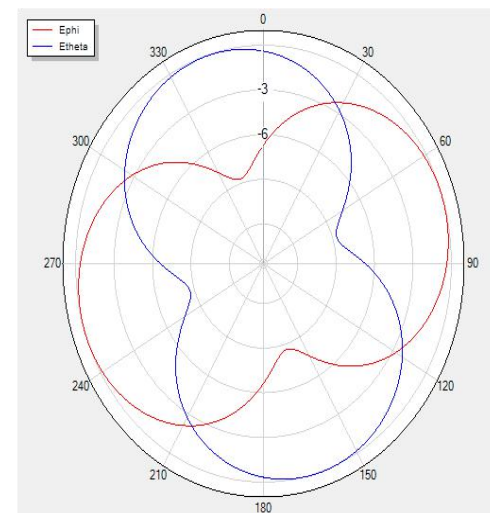
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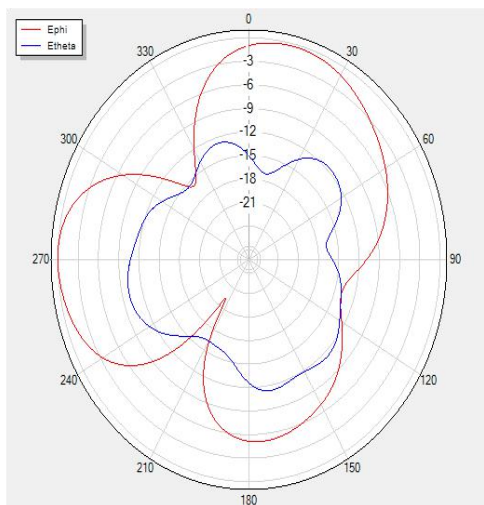
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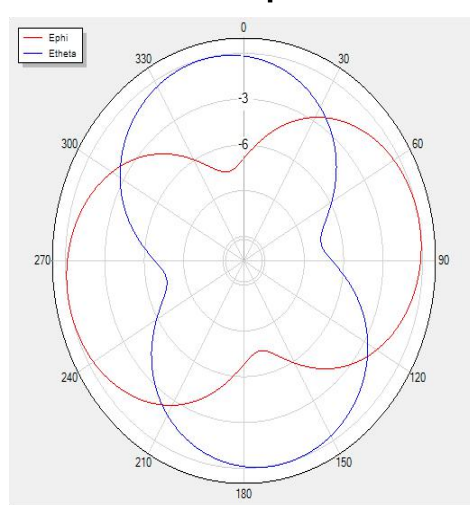
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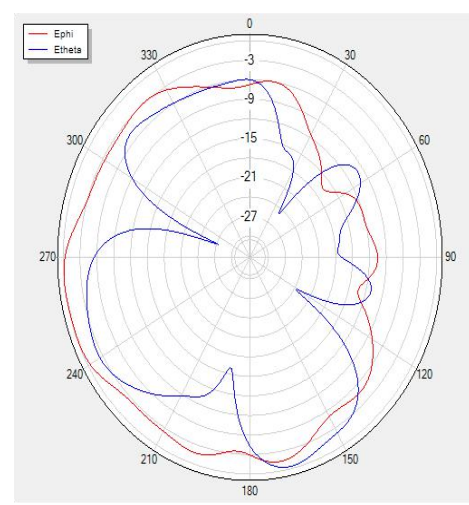
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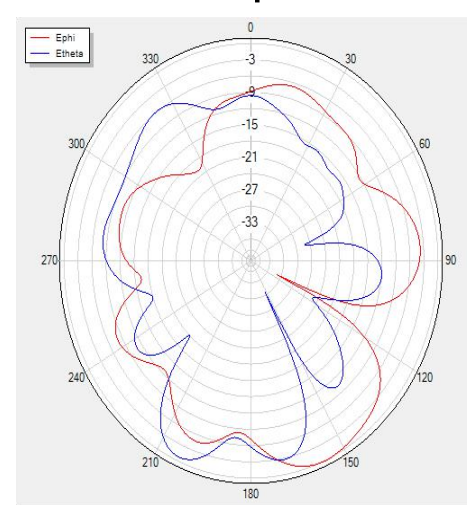
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V Phi=90 freq=2400MHz

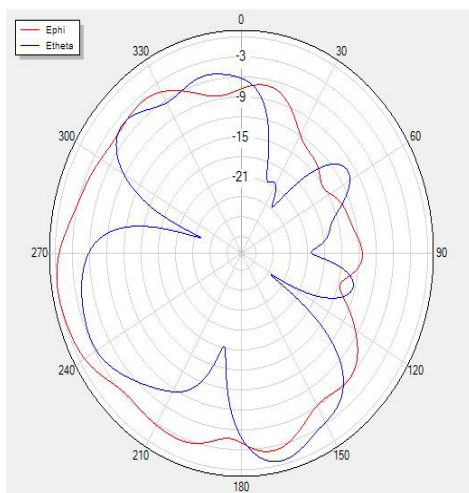


V Phi=0 freq=2400MHz

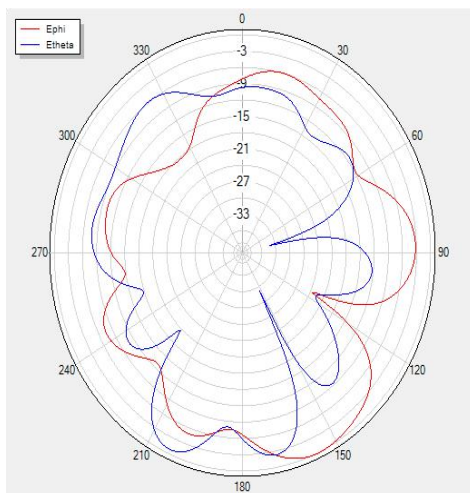


 方向图

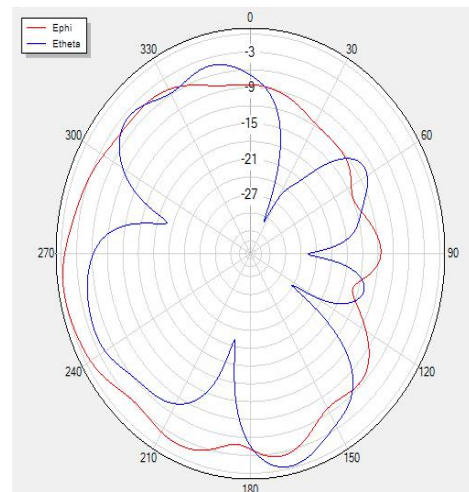
V Phi=90 freq=2410MHz



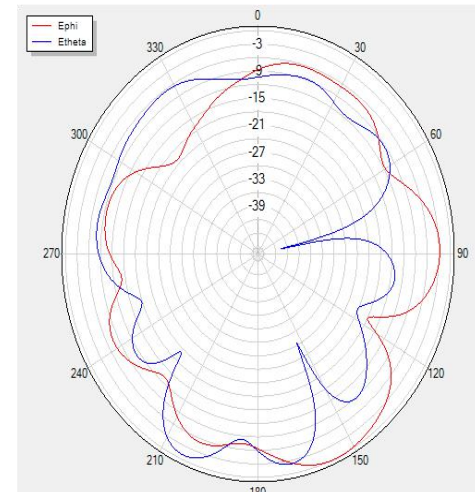
V Phi=0 freq=2410MHz



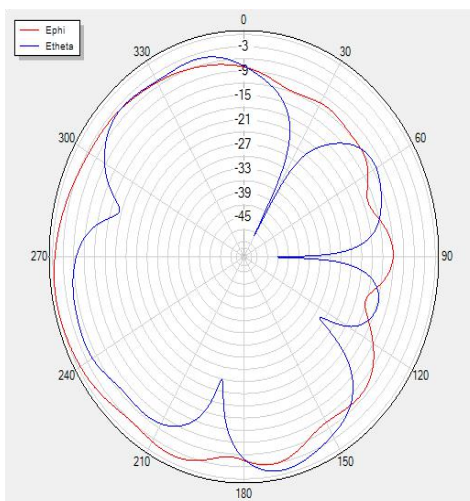
V Phi=90 freq=2420MHz



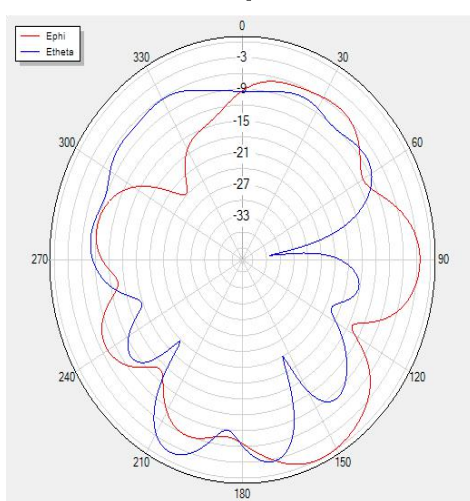
V Phi=0 freq=2420MHz



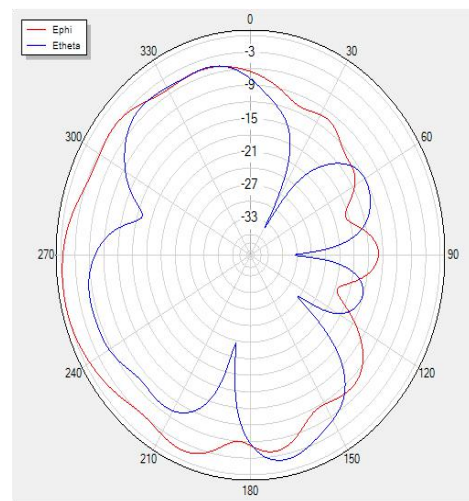
V Phi=90 freq=2430MHz



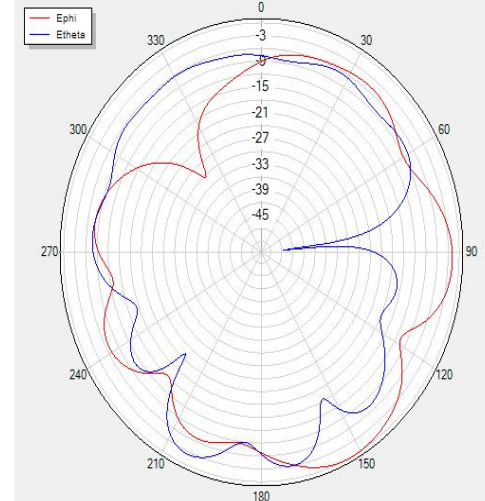
V Phi=0 freq=2430MHz



V Phi=90 freq=2440MHz

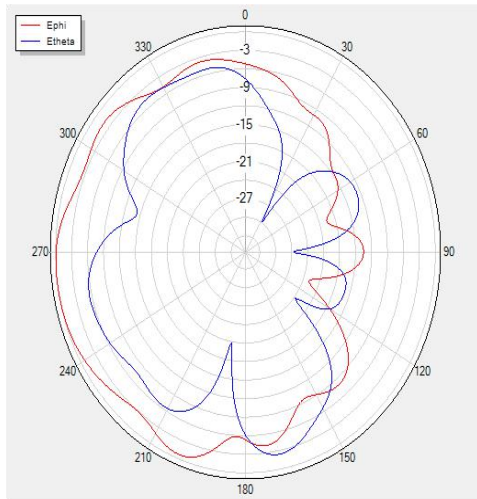


V Phi=0 freq=2440MHz

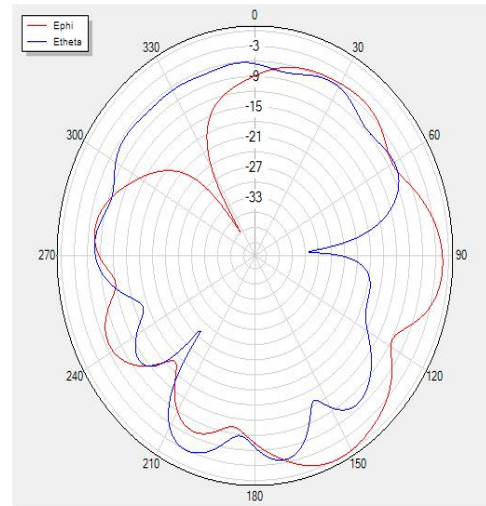


 Pattern

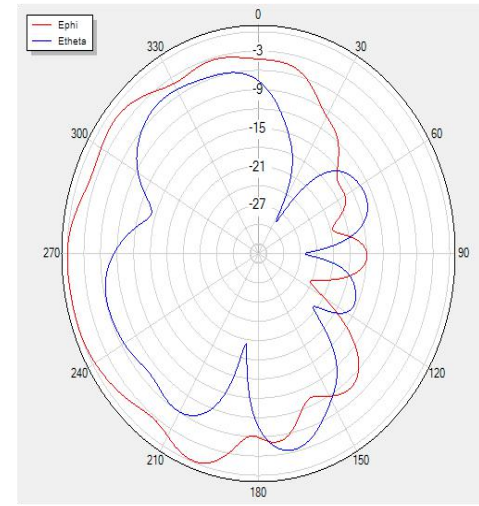
V Phi=90 freq=2450MHz



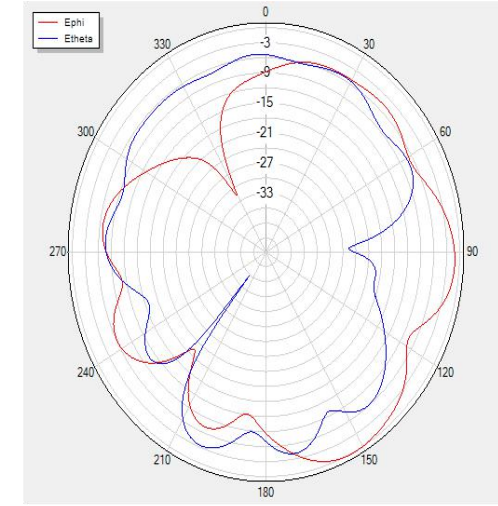
V Phi=0 freq=2450MHz



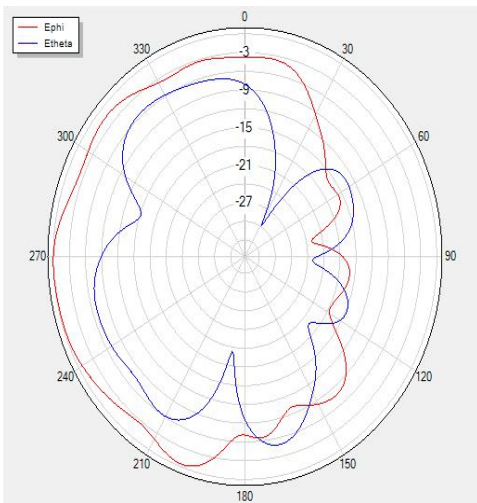
V Phi=90 freq=2460MHz



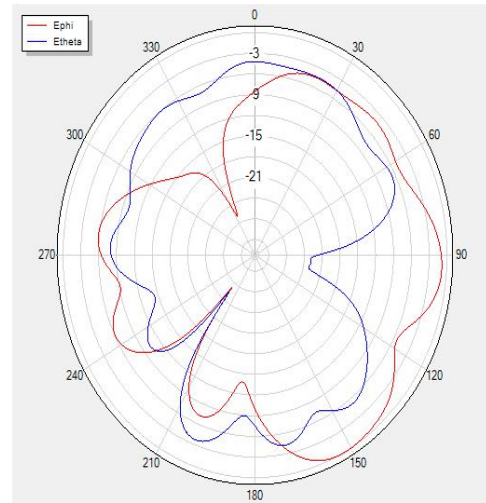
V Phi=0 freq=2460MHz



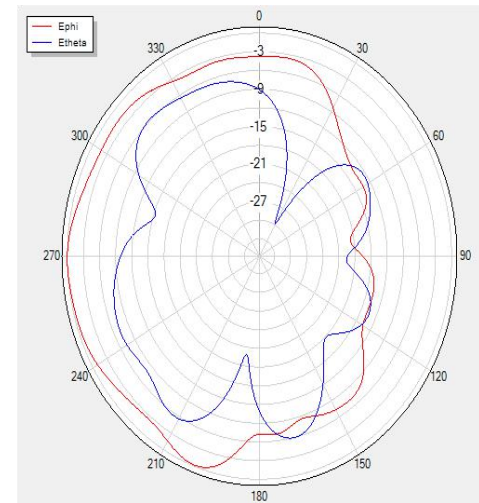
V Phi=90 freq=2470MHz



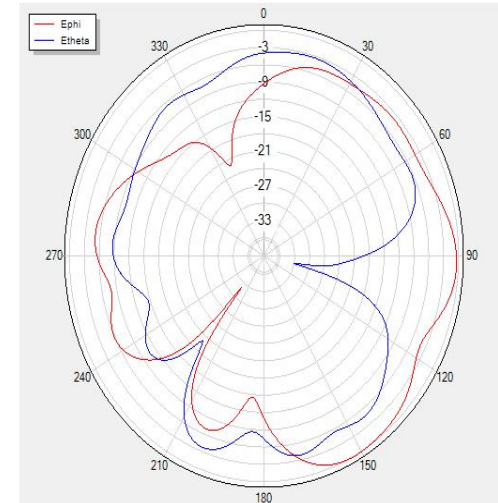
V Phi=0 freq=2470MHz



V Phi=90 freq=2480MHz

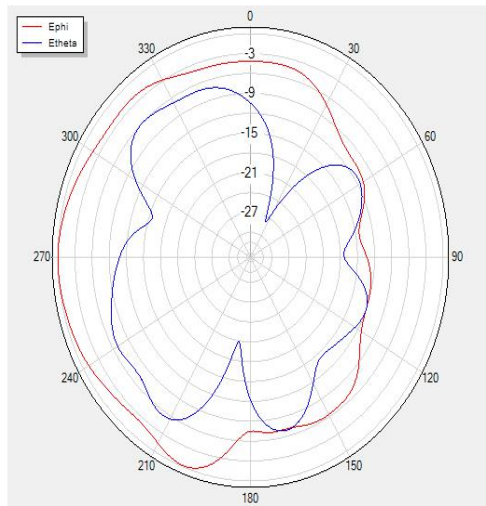


V Phi=0 freq=2480MHz

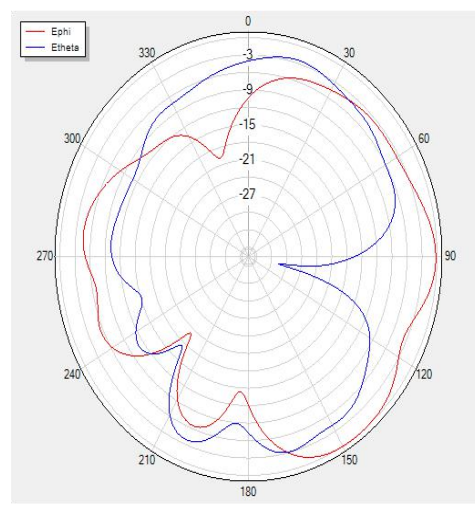


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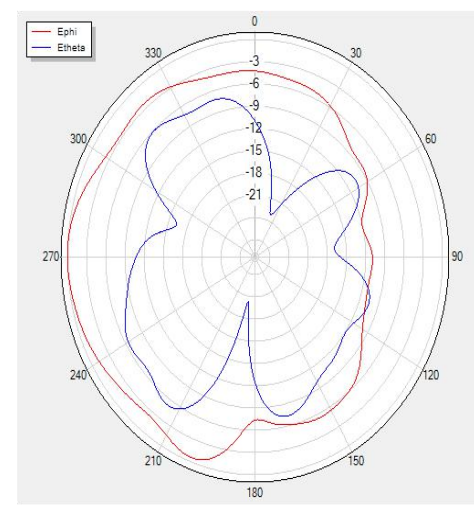
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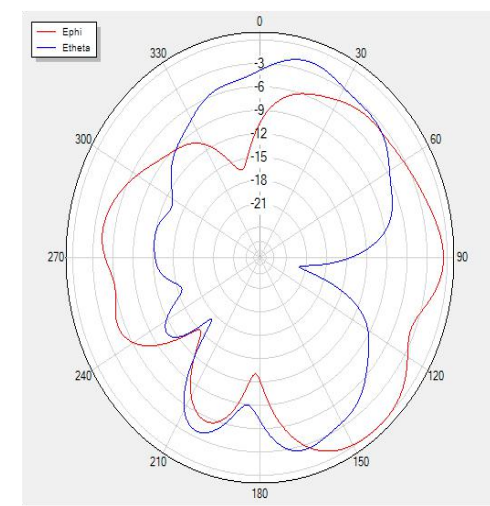
V Phi=0 freq=2490MHz



V Phi=90 freq=2500MHz



V Phi=0 freq=2500MHz





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The End

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