



DK068 Antenna Test Report

Date: 2023. 11. 01

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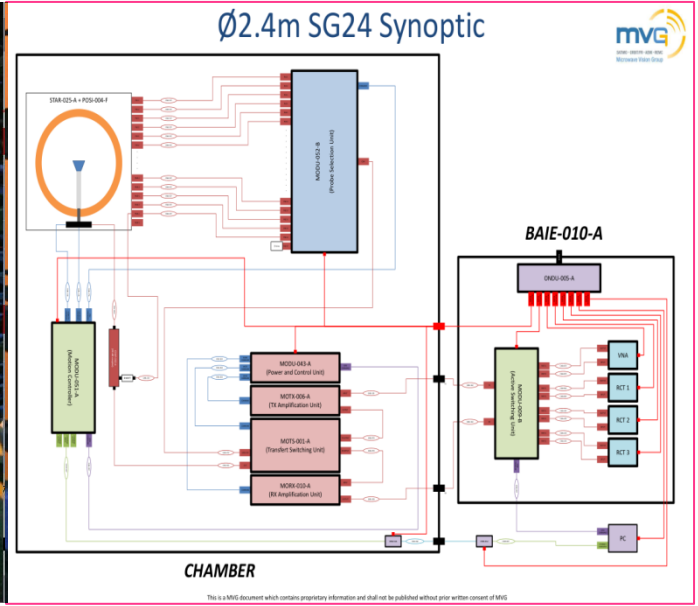
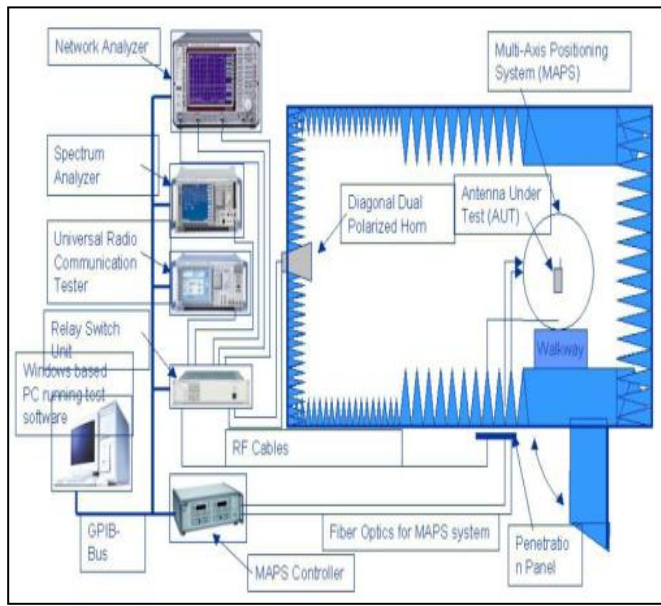


Project Overview



Antenna design spectrum:	WIFI 2.4/5.8G	Repor version:	Date	Content
Type of antenna:	PIFA	V6.0	2023.11.01	Antenna test report

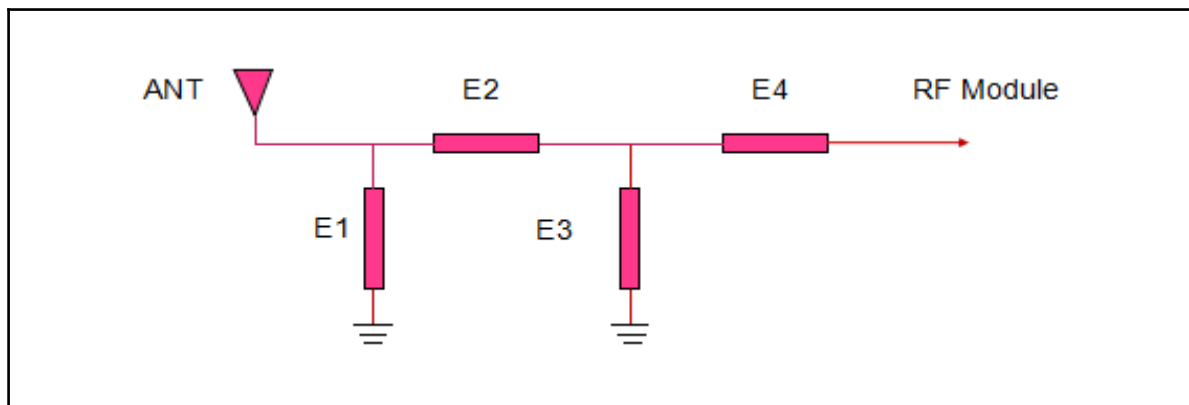
Test Environment



Darkroom system : MVG SG24LT (Satmio)

Matching Circuit

main antenna design	
Element	Value
E1(0201):	/
E2(0201):	/
E3(0201):	/

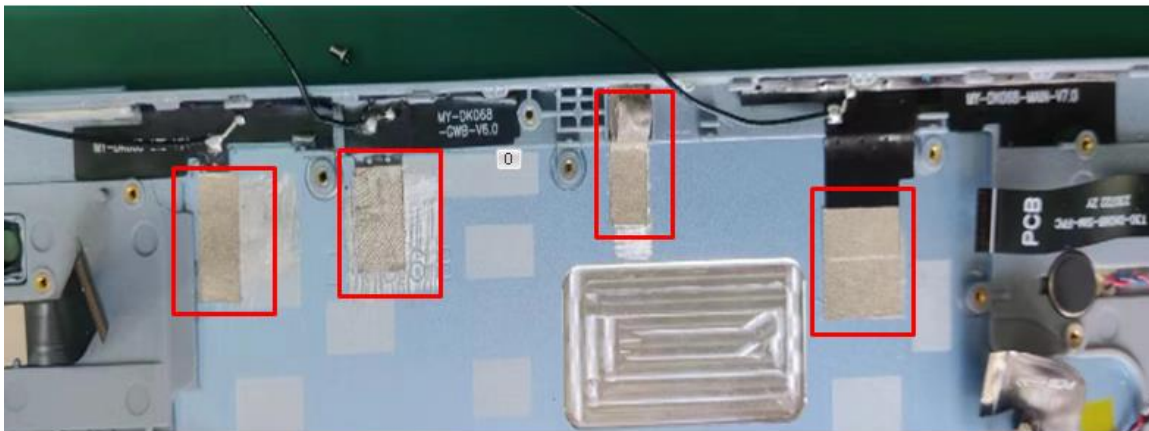


Note: The matching circuit has not changed.

Figure: The motherboard is grounded with a conductive sponge.



Figure: The red box is grounded with conductive cloth.

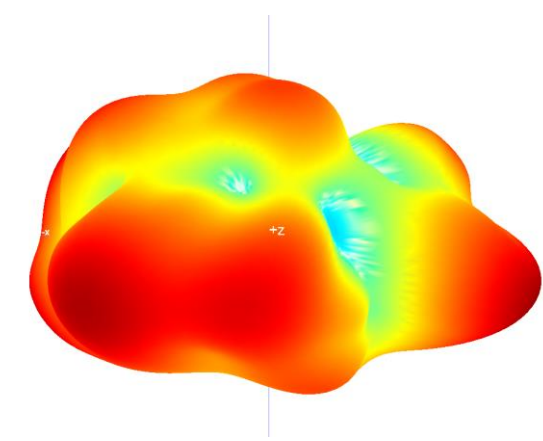
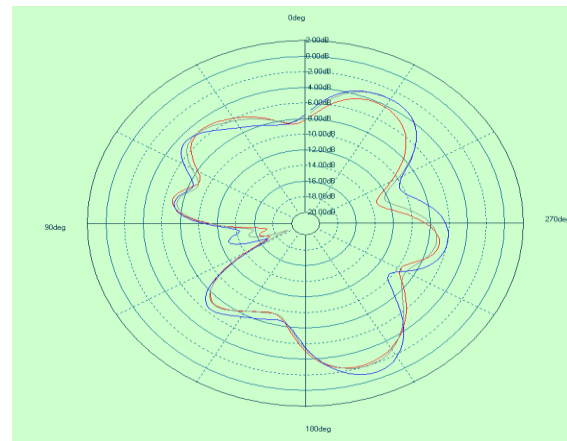
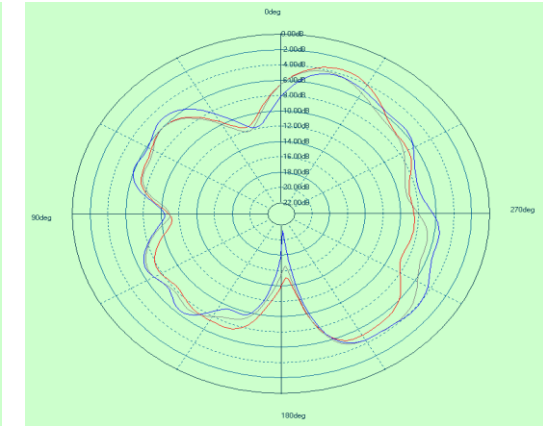
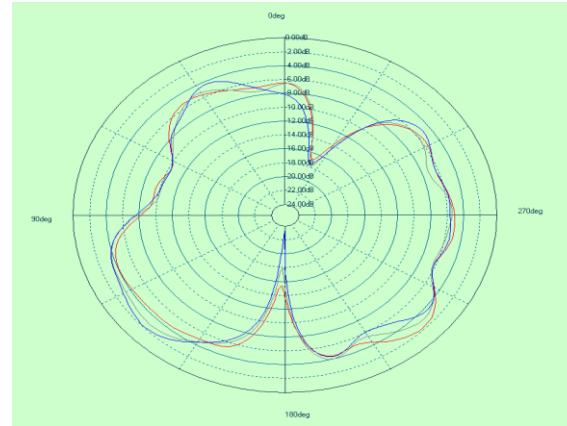
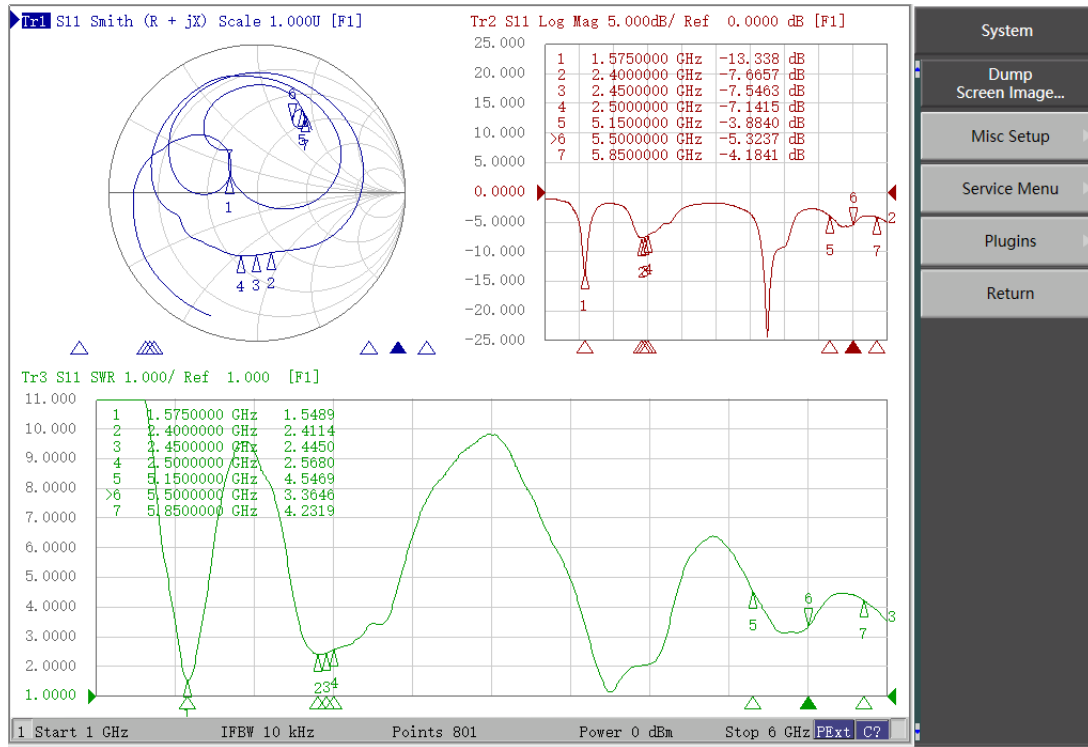


WiFi passive Efficiency, Gain

Frequency	Efficiency	Efficiency . dB	Frequency	Efficiency	Efficiency . dB
2400	26%	-5.92	5150	32%	-4.97
2410	26%	-5.85	5200	35%	-4.52
2420	26%	-5.81	5250	33%	-4.79
2430	28%	-5.58	5300	36%	-4.39
2440	28%	-5.60	5350	33%	-4.81
2450	27%	-5.62	5400	35%	-4.61
2460	28%	-5.50	5450	33%	-4.81
2470	29%	-5.35	5500	31%	-5.03
2480	29%	-5.42	5550	31%	-5.12
2490	29%	-5.44	5600	27%	-5.61
2500	29%	-5.34	5650	28%	-5.46
			5700	28%	-5.59
			5750	30%	-5.25
			5800	31%	-5.14

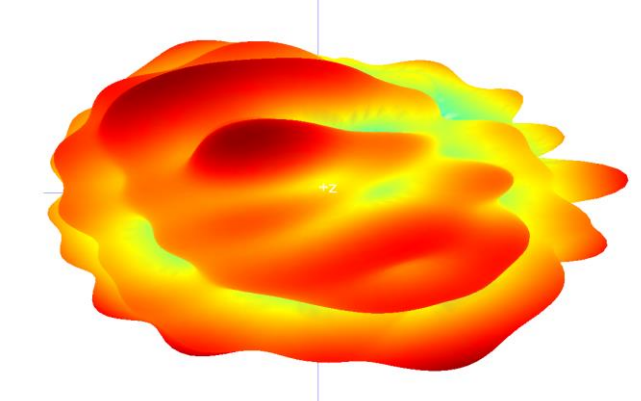
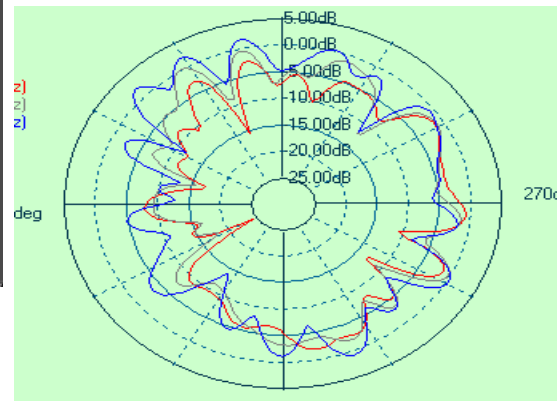
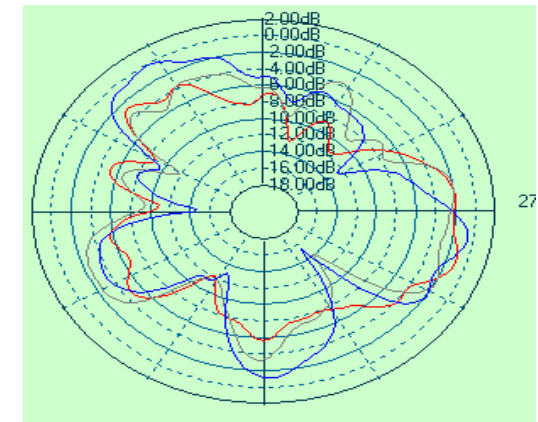
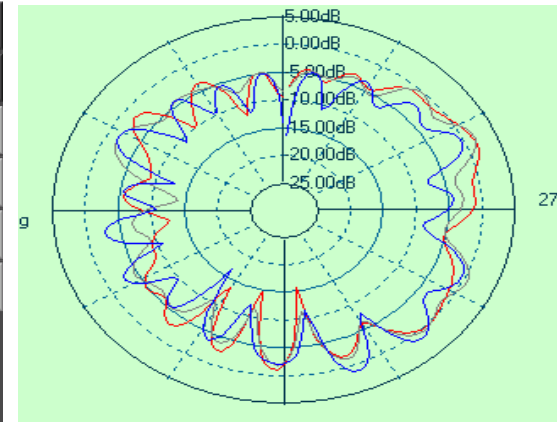
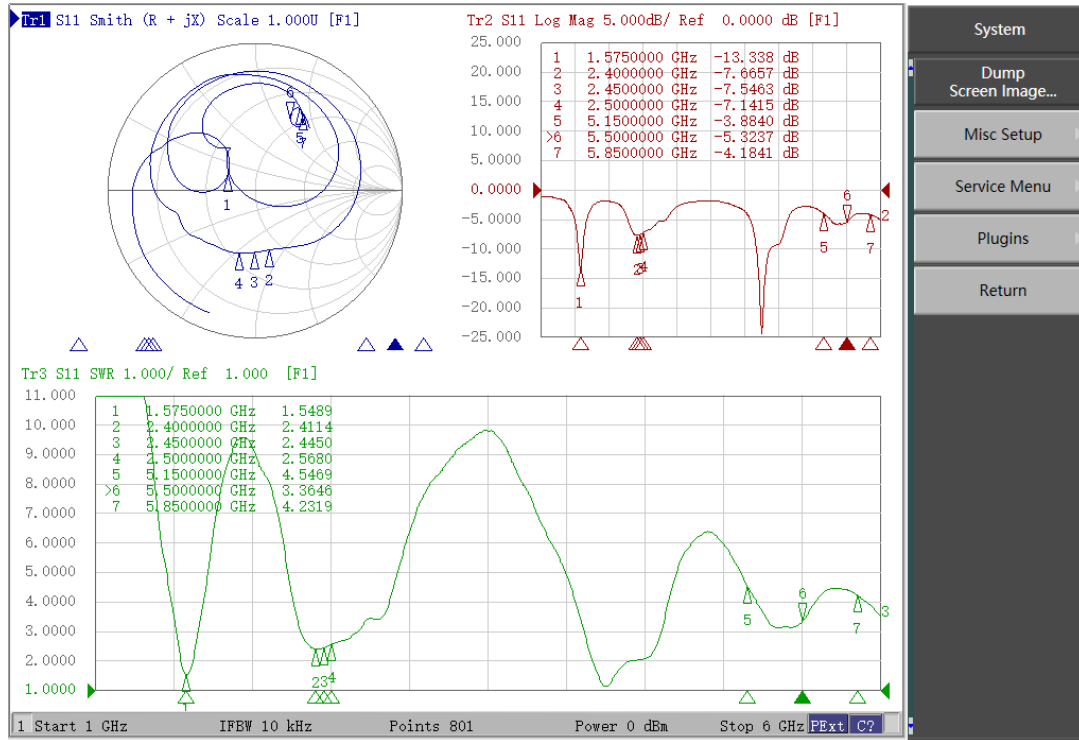
Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

2.4G Passive pattern



Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

5.8G Passive pattern



Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)



OTA

3D	BAND	WiFi_B			WiFi_G		
	CHANNEL	L	M	H	L	M	H
	TRP	12.58	12.69	12.12	10.69	10.99	10.04
	TIS			-81.12			-70.37
	BAND	WiFi_N					
	CHANNEL	L	M	H			
	TRP	10.94	9.44	9.64			
	TIS			-64.03			



OTA


3D	BAND	WiFi_A			WiFi_AC		
	CHANNEL	L	M	H	L	M	H
	TRP	10.31	11.52	11.52	9.23	9.22	9.09
	TIS			-71.12			-65.11
	BAND						
	CHANNEL						
	TRP						
	TIS						

A decorative graphic consisting of two squares: a red one on top and a black one on the bottom, both with a gradient effect.

Conclusion

1. This report is the sample antenna test results .
2. If you have any questions, please call.

THANK YOU

If you have any questions, please contact us
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 website : www.mayaant.com

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