

# MP200- Antenna Test Report

**Date: 2023.09.25**

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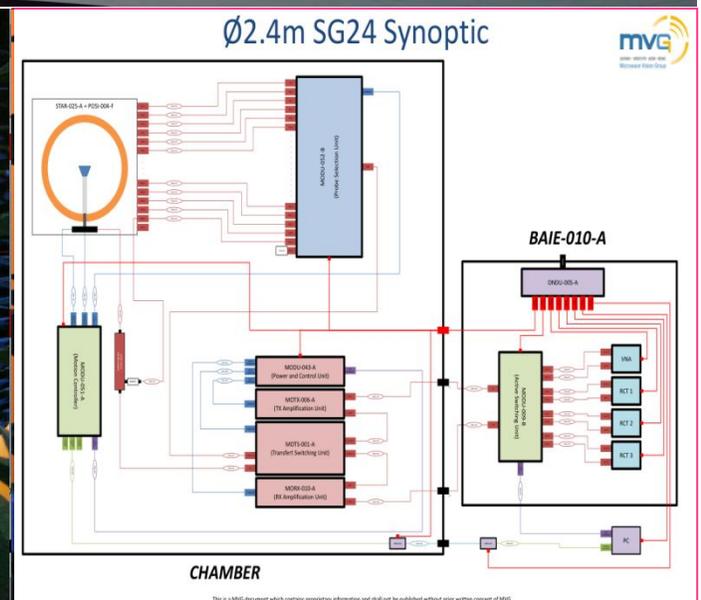
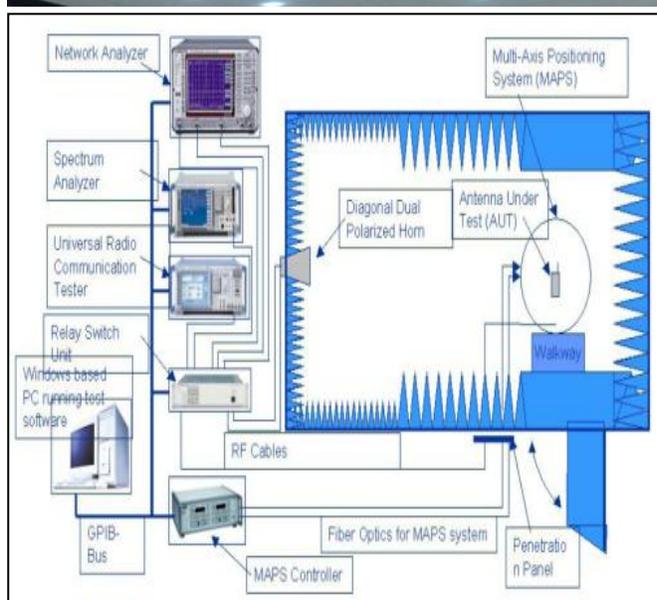
Conclusion



Main antenna design spectrum:	WIFI 2.4/5.8G
Type of antenna:	PIFA
DIV antenna design spectrum:	WIFI 2.4/5.8G
Type of antenna:	PIFA

Repor version:	Date	Content
V3.0	2023.09.25	Antenna test report

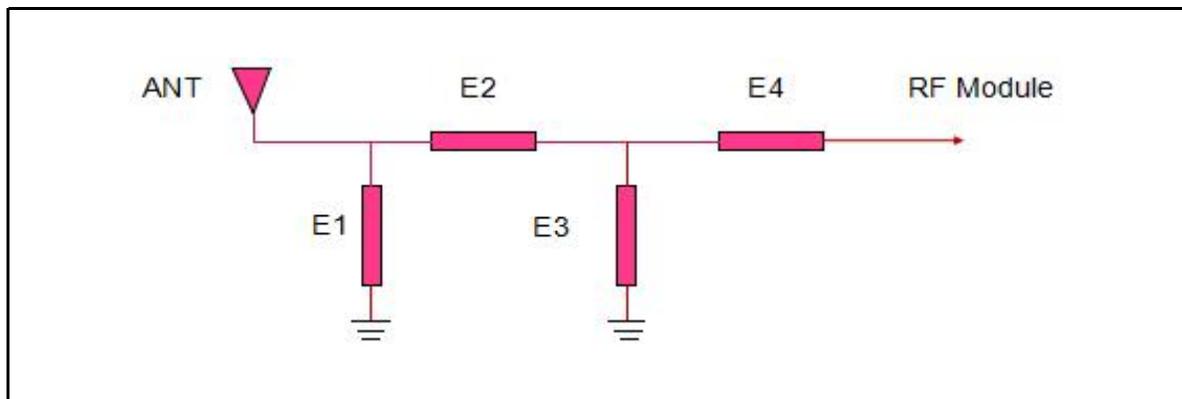
# Test Environment



Darkroom system : MVE SG24LT (Satmio)

# Matching Circuit

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



Note: The matching circuit has not changed.



## WiFi passive Efficiency, Gain

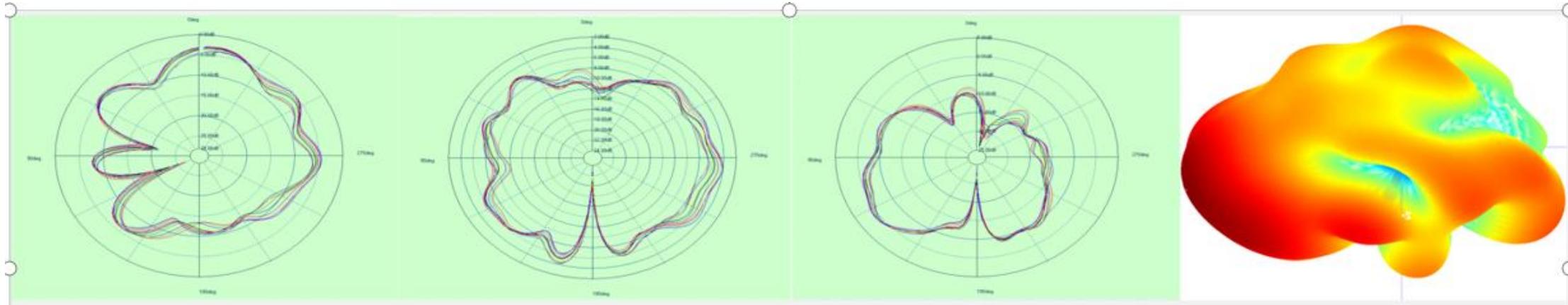
1号天线

Frequency	Efficiency	Efficiency .	Gain . dB
2400000000.00	55.08%	-2.59022	3.701189023
2410000000.00	54.55%	-2.63195	3.74311413
2420000000.00	54.33%	-2.64973	3.672063619
2430000000.00	56.38%	-2.48912	3.585343214
2440000000.00	56.30%	-2.49497	3.349225943
2450000000.00	55.71%	-2.54055	3.310386285
2460000000.00	56.33%	-2.49275	3.287989885
2470000000.00	56.97%	-2.44342	3.101078981
2480000000.00	55.62%	-2.54763	2.795332023
2490000000.00	55.06%	-2.59147	2.730892477
2500000000.00	56.34%	-2.49167	2.712537385

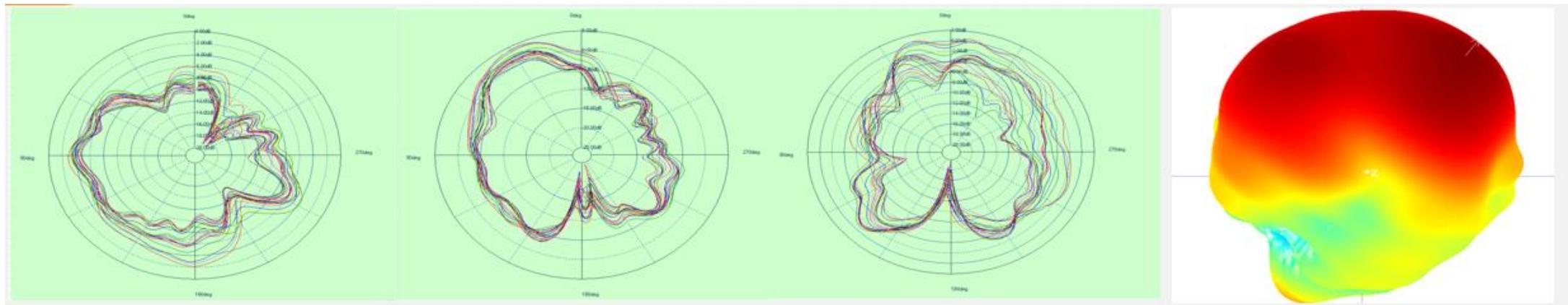
Frequency	Efficiency	Efficiency .	Gain . dB
5200000000.00	52.47%	-2.8005	5.343559887
5230000000.00	49.86%	-3.02227	5.155517426
5260000000.00	49.89%	-3.01991	5.243731993
5290000000.00	47.78%	-3.20768	4.785772215
5320000000.00	43.75%	-3.5901	4.026464455
5350000000.00	37.30%	-4.28343	3.165253275
5380000000.00	37.72%	-4.23389	3.131756057
5410000000.00	42.83%	-3.68286	3.986118929
5440000000.00	48.47%	-3.14525	4.74733351
5470000000.00	48.55%	-3.13797	5.023175766
5500000000.00	51.50%	-2.8818	5.530836481
5530000000.00	55.84%	-2.53033	6.321790937
5560000000.00	52.69%	-2.78271	6.072142447
5590000000.00	45.85%	-3.38642	5.625156432
5620000000.00	42.18%	-3.74923	5.412221183
5650000000.00	39.53%	-4.03074	5.212939217
5680000000.00	39.45%	-4.03954	5.344841251
5710000000.00	38.67%	-4.12655	5.334743363
5740000000.00	41.27%	-3.84339	5.810107147
5770000000.00	46.75%	-3.30228	6.360019409
5800000000.00	47.34%	-3.24804	6.429546501

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

## 2.4G Passive pattern



## 5.8G Passive pattern



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



## WiFi passive Efficiency, Gain

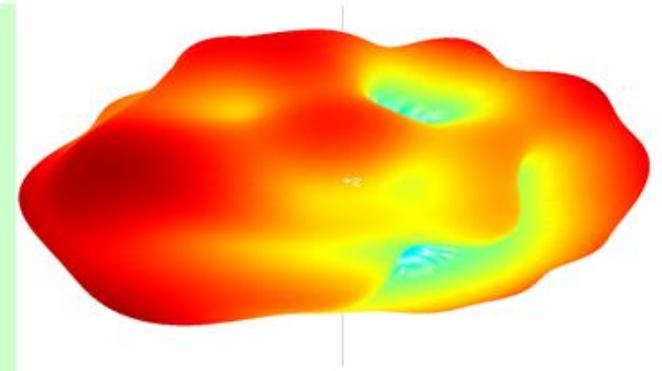
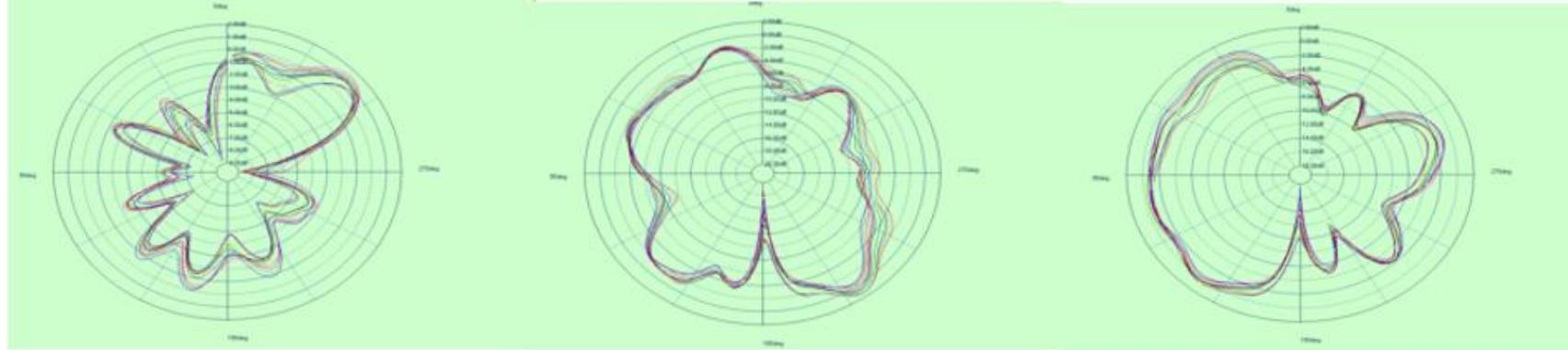
2号天线

Frequency	Efficiency	Efficiency .	Gain . dB
2400000000.00	57.43%	-2.40826	3.616561319
2410000000.00	56.90%	-2.44874	3.768177066
2420000000.00	55.01%	-2.59551	3.53659558
2430000000.00	55.38%	-2.56638	3.273808795
2440000000.00	56.02%	-2.51656	3.257936624
2450000000.00	55.80%	-2.53397	3.383116239
2460000000.00	55.90%	-2.52627	3.182061025
2470000000.00	56.66%	-2.46689	3.152751291
2480000000.00	56.71%	-2.46304	3.36672354
2490000000.00	56.74%	-2.46145	3.572887502
2500000000.00	57.85%	-2.37695	3.745909251

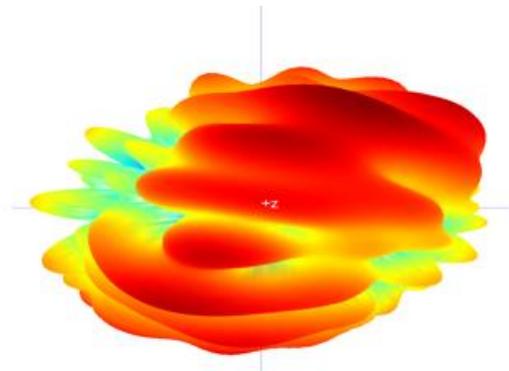
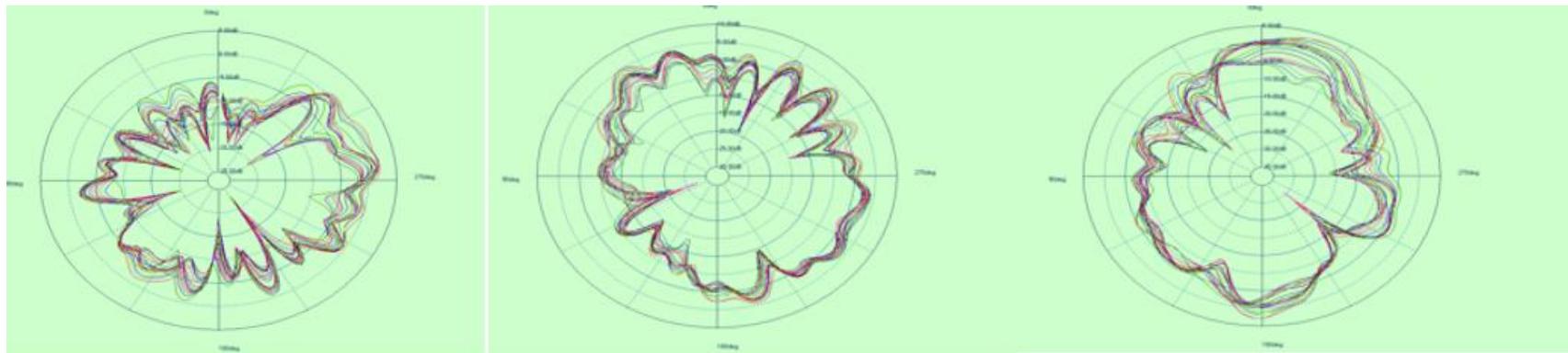
Frequency	Efficiency	Efficiency .	Gain . dB
5200000000.00	61.62%	-2.10246	7.07052994
5230000000.00	58.58%	-2.32215	7.109344217
5260000000.00	56.52%	-2.4782	7.080105884
5290000000.00	53.24%	-2.73729	6.752134154
5320000000.00	48.34%	-3.15669	6.339143117
5350000000.00	40.18%	-3.95972	5.337176538
5380000000.00	40.78%	-3.89504	5.091665546
5410000000.00	46.16%	-3.35762	5.420534292
5440000000.00	50.82%	-2.94	5.726135453
5470000000.00	50.44%	-2.97228	5.693139529
5500000000.00	51.97%	-2.84232	5.869631465
5530000000.00	54.72%	-2.61892	6.489951054
5560000000.00	51.51%	-2.88089	6.206881775
5590000000.00	44.17%	-3.54908	5.548423322
5620000000.00	40.25%	-3.95209	5.104566799
5650000000.00	37.87%	-4.21683	4.713389307
5680000000.00	37.69%	-4.23798	4.242695458
5710000000.00	36.66%	-4.35771	4.253296203
5740000000.00	38.97%	-4.09216	4.744857054
5770000000.00	44.00%	-3.56586	5.233313811
5800000000.00	45.53%	-3.41735	5.219871191

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

## 2.4G Passive pattern



## 5.8G Passive pattern



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



	BAND	2.4G-WIFI-B			2.4G-WIFI-G		
自由空间	CHANNAL	1	6	11	1	6	11
	TRP	13.22	13.34	13.15	12.33	12.45	13.22
	TIS	/	/	-81.48	/	/	-72.86
	BAND	2.4G-WIFI-N			5.8G-WIFI-A		
	CHANNAL	1	6	11	36	149	165
	TRP	11.89	11.67	12.12	12.44	12.66	12.57
	TIS	/	/	-65.64	/	/	-72.43
	BAND	5.8G-WIFI-AC			5.8G-WIFI-AX		
	CHANNAL	36	149	165	36	149	165
	TRP	12.33	12.5	12.88	11.66	11.7	11.64
	TIS	/	/	-67.56	/	/	-66.55
	备注：3D数据						

Two squares, one red and one black, are positioned to the left of the section header.

## Conclusion

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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](http://www.mayaant.com)

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