



C220G Antenna Design And Test Report



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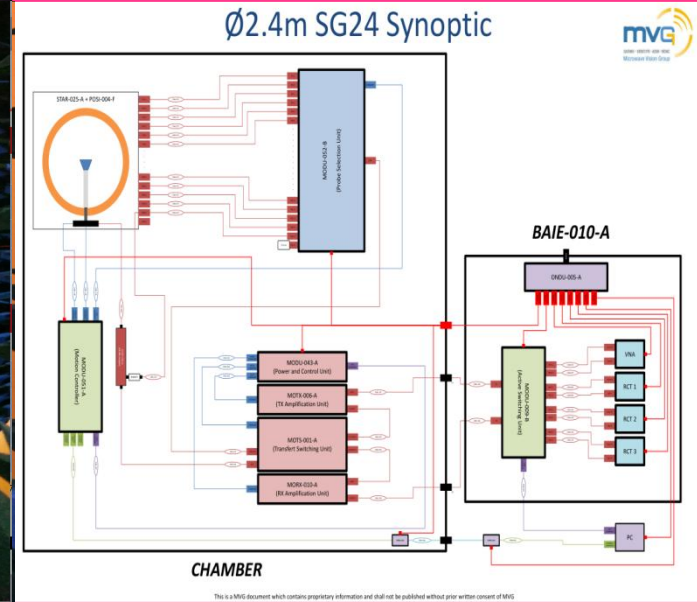
Conclusion

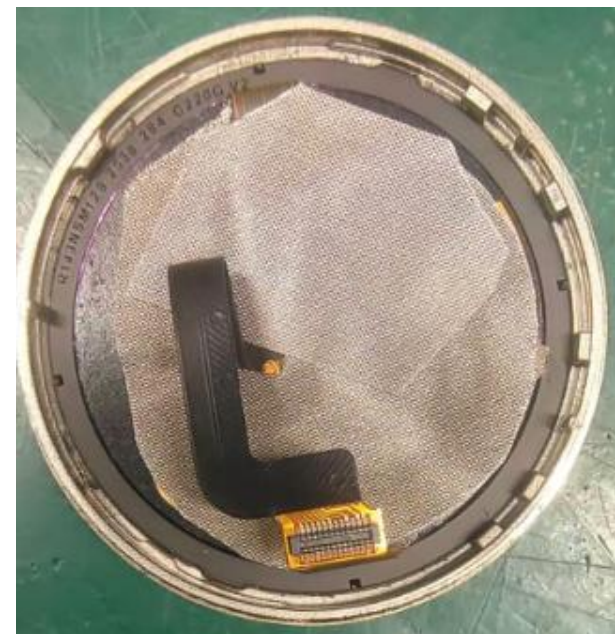
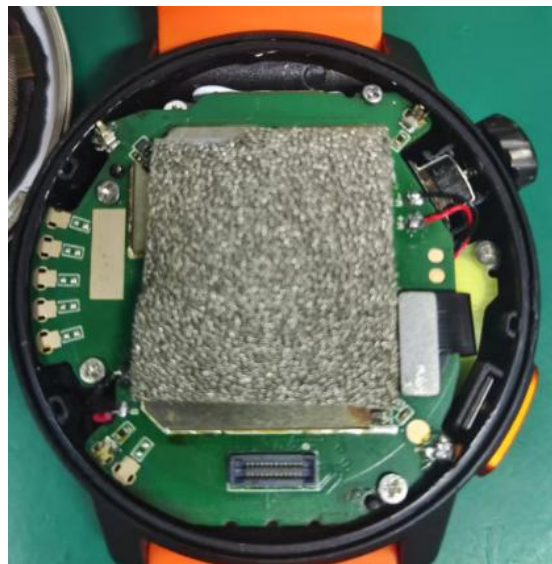
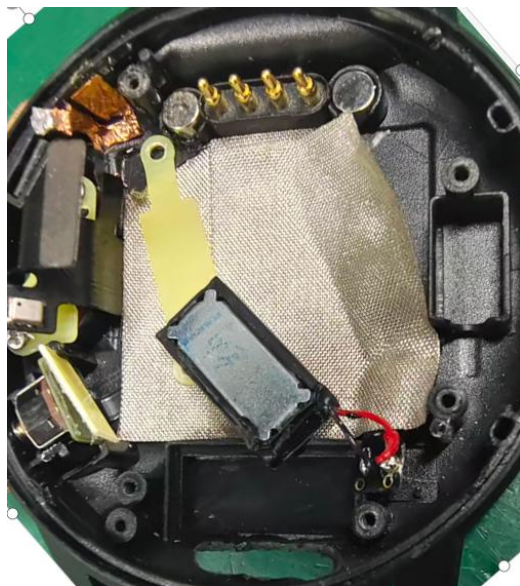
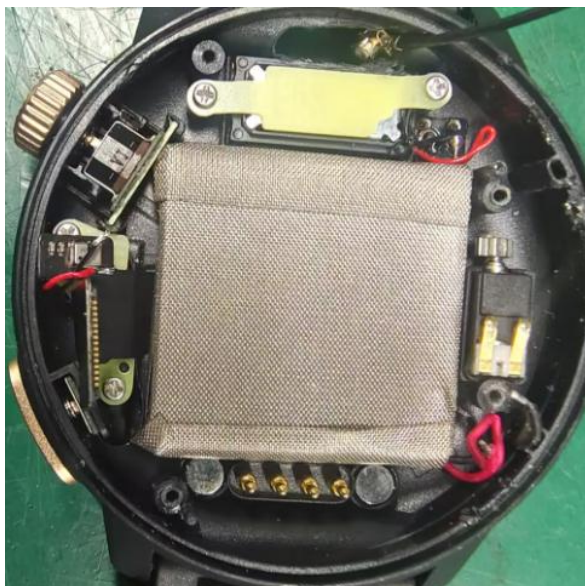


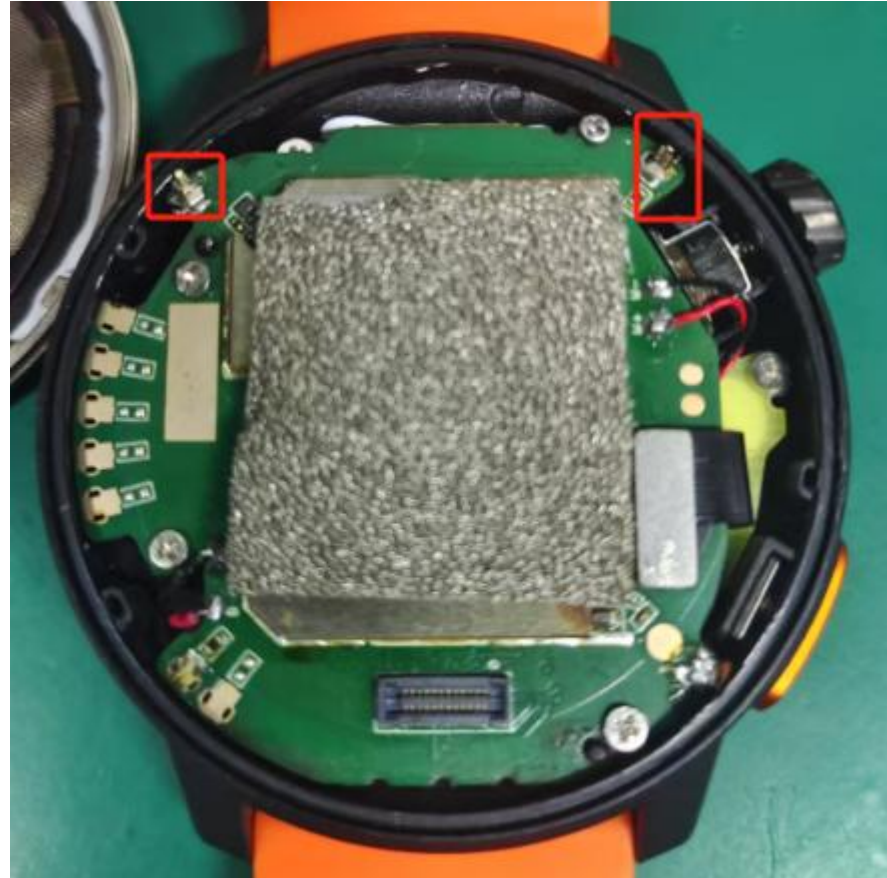


main antenna design spectrum	BT:2400-2500
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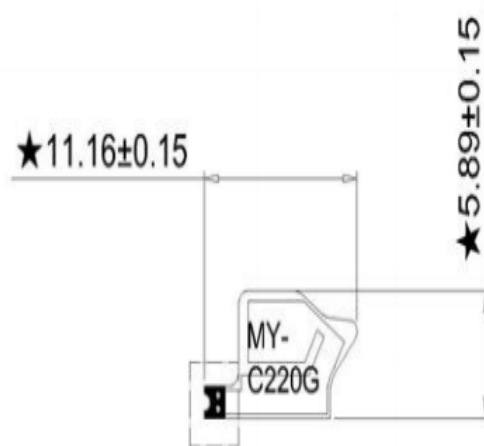
Report version	Date	Content
V1	2025.9.23	Passive Debugging Report
V2	2025.10.11	Antenna Debugging Report
V3	2025.10.14	Update BT Matching Report
V4	2025.11.19	
V5	2025.12.30	Debug the antenna with a 229 machine small board
V6	2026.6.3	Increase passive efficiency







Antenna size



A

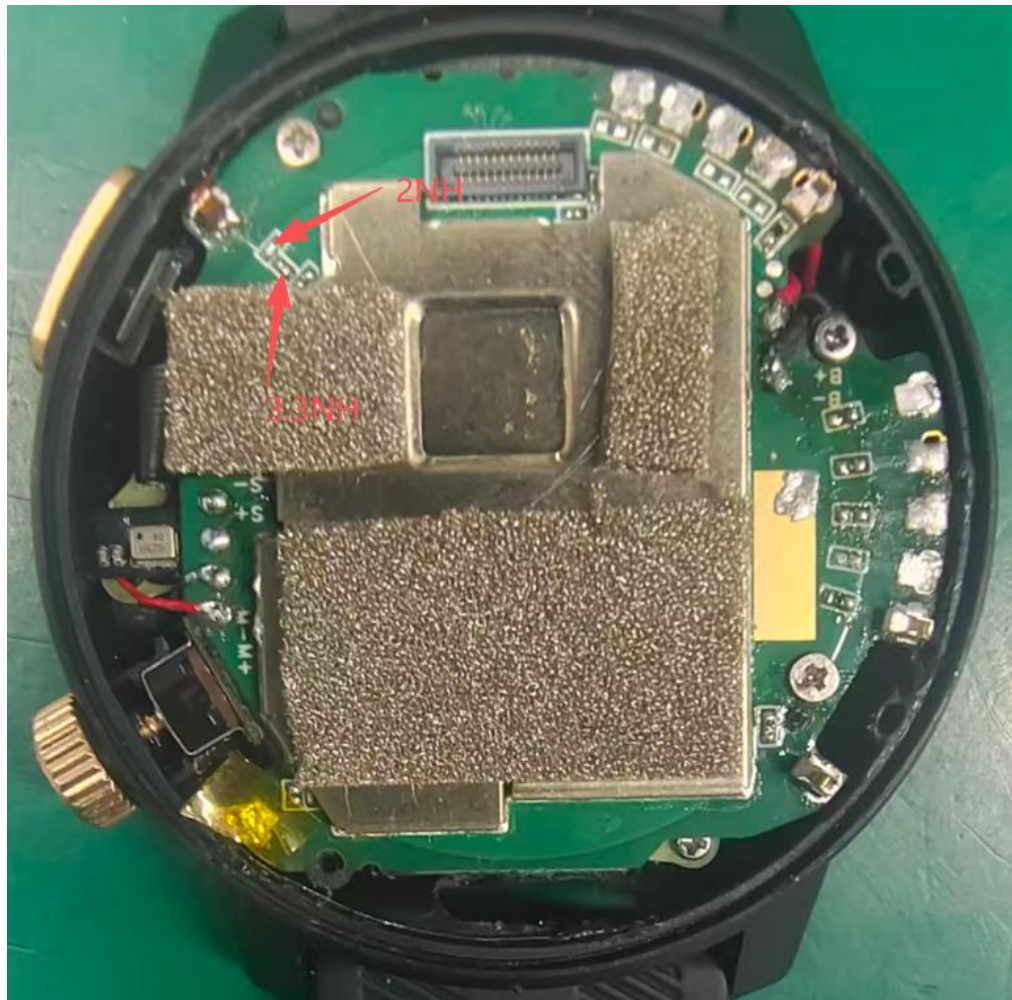
B

C

Antenna Matching

BT

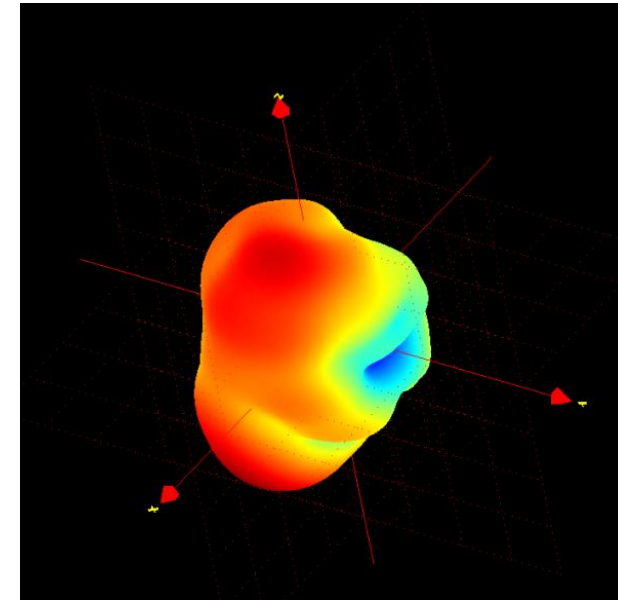
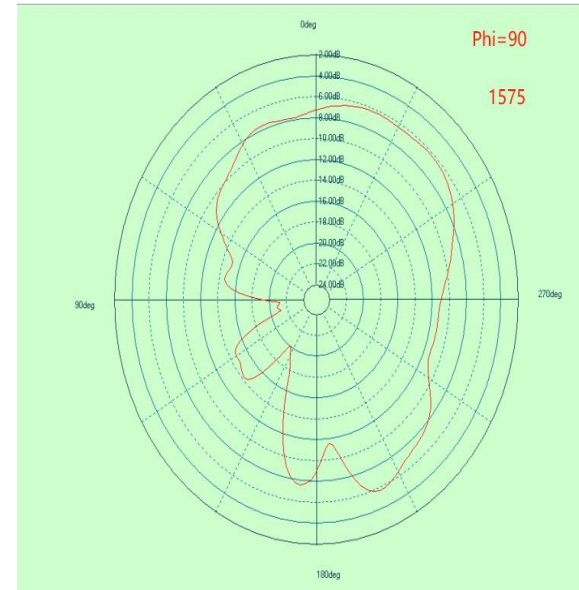
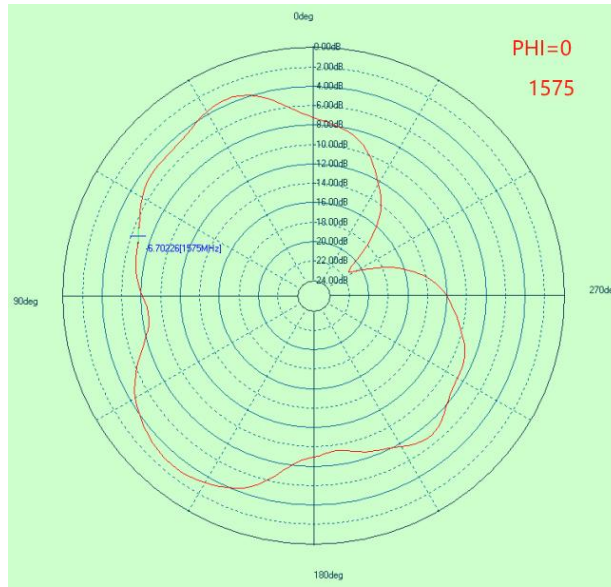
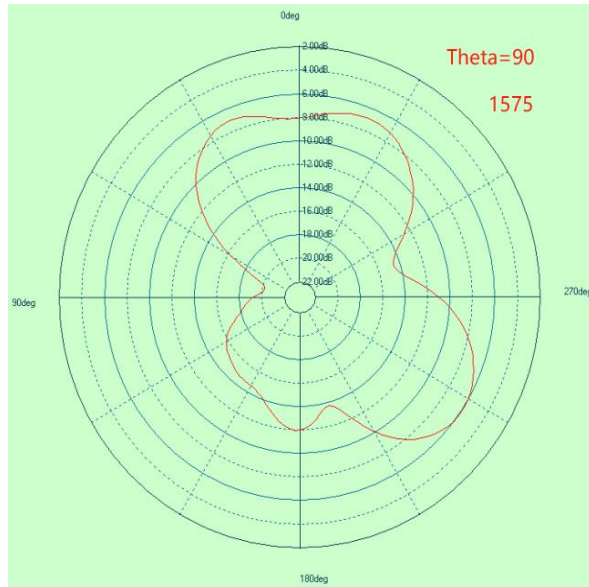
0201	
main road merge	2NH
main road connection	3.3NH



Frequency	Efficiency	Efficiency . dB	Gain . dB
1550	18%	-7.49	0.06
1555	17%	-7.60	-0.74
1560	17%	-7.70	-2.41
1565	15%	-8.10	-7.04
1570	15%	-8.25	-8.14
1575	14%	-8.40	-8.06
1580	14%	-8.55	-7.99
1585	15%	-8.19	-7.43
1590	14%	-8.51	-10.23
1595	14%	-8.65	-11.62
1600	13%	-8.80	-11.23

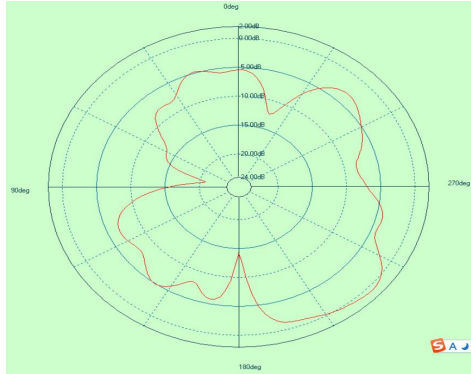
2.4GWIFI			
Frequency	Efficiency	Efficiency.dB	Gain.dBi
2400	25%	-6.07	1.52
2410	24%	-6.18	1.52
2420	24%	-6.26	1.51
2430	25%	-5.98	1.58
2440	25%	-6.06	1.21
2450	25%	-6.07	1.16
2460	25%	-6.03	1.20
2470	26%	-5.92	1.15
2480	25%	-5.95	1.07
2490	25%	-5.95	1.03
2500	26%	-5.80	1.10

Antenna Passive

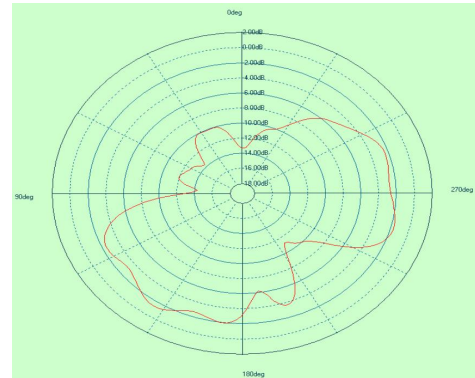


2.4G Passive pattern

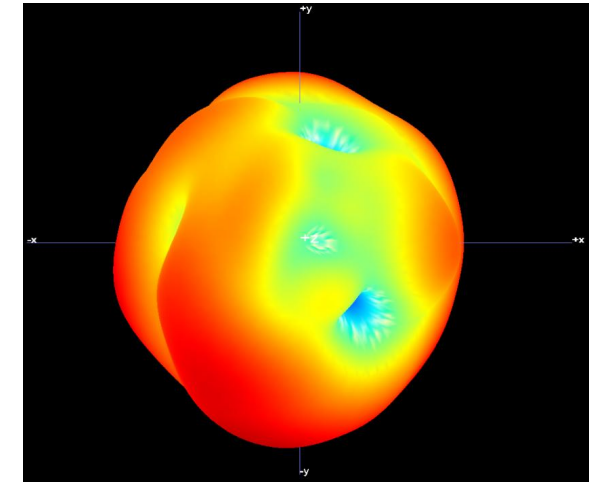
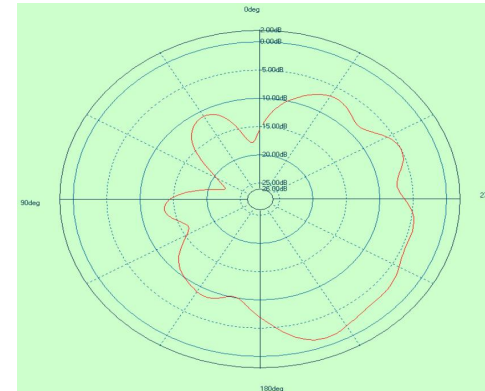
Phi=0



Phi=90



Theta=90



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

1. The above is the addition of passive data reports.
2. If you have any questions, you can contact us by phone. Thank you.

Additional Notes

01

02

03

谢谢

THANK YOU

如有疑问 请联系我们

日常服务时间：周一至周五 9:00-18:00

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