

2025

Antenna matching test report

Customer name: Yikeno

Test date: July 10,2025

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Guangzhou Cambrian Electronic Technology Co., LTD

2025/7/10



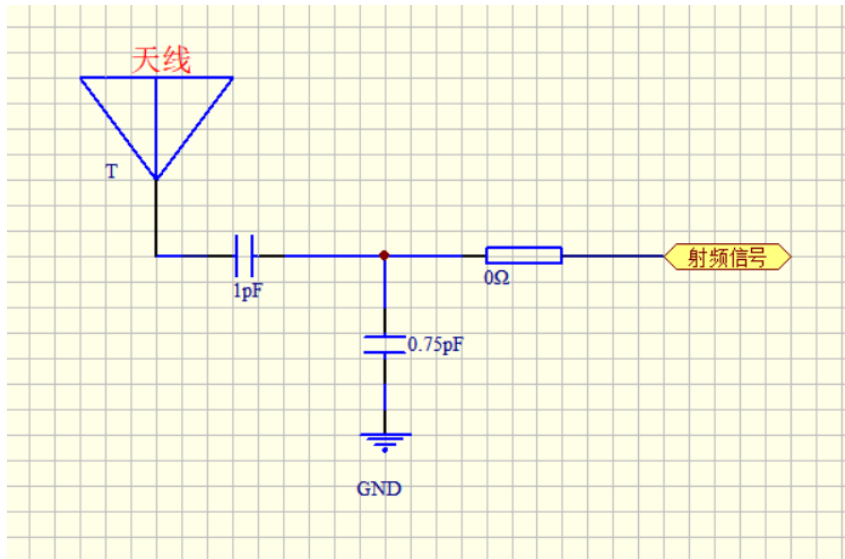
Catalogue

catalogue	1
CA-C03.....	2
Match debugging data.....	2
Debug the antenna matching schematic.....	2
IIS parameter testing.....	2
Full machine test environment.....	3
antenna standing wave ratio.....	3
return loss	4
III 3D microwave anechoic chamber test.....	4
Gain and efficiency table.....	5
Darkroom Direction Diagram.....	6
Product darkroom test environment diagram.....	6
3D Directional Chart.....	7

CA-C03

I Match Debug Data

Debug the Antenna Matching Schematic

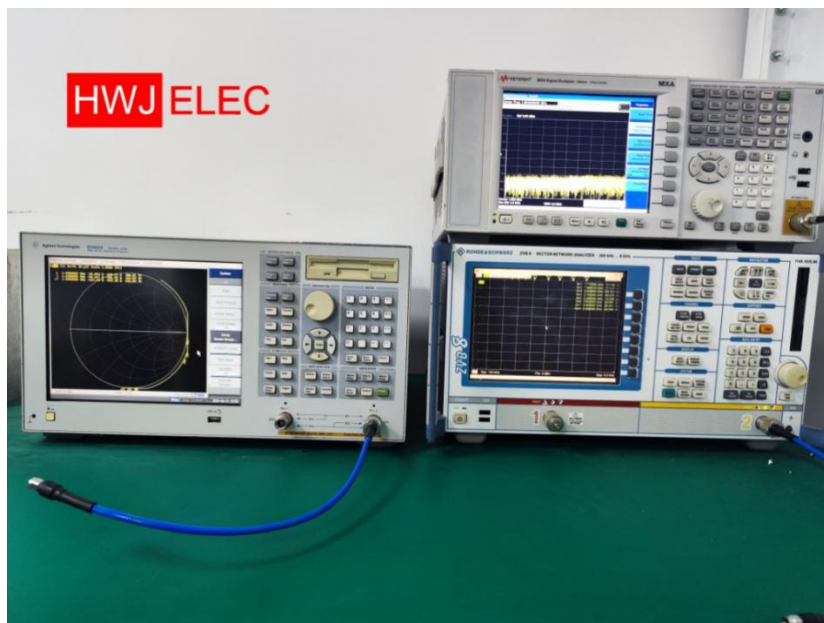


Note: The peripheral component values specified in the RF chip reference design should be used according to the manufacturer's reference design. The above antenna matching components are independent and cannot be replaced with each other.

Device Model

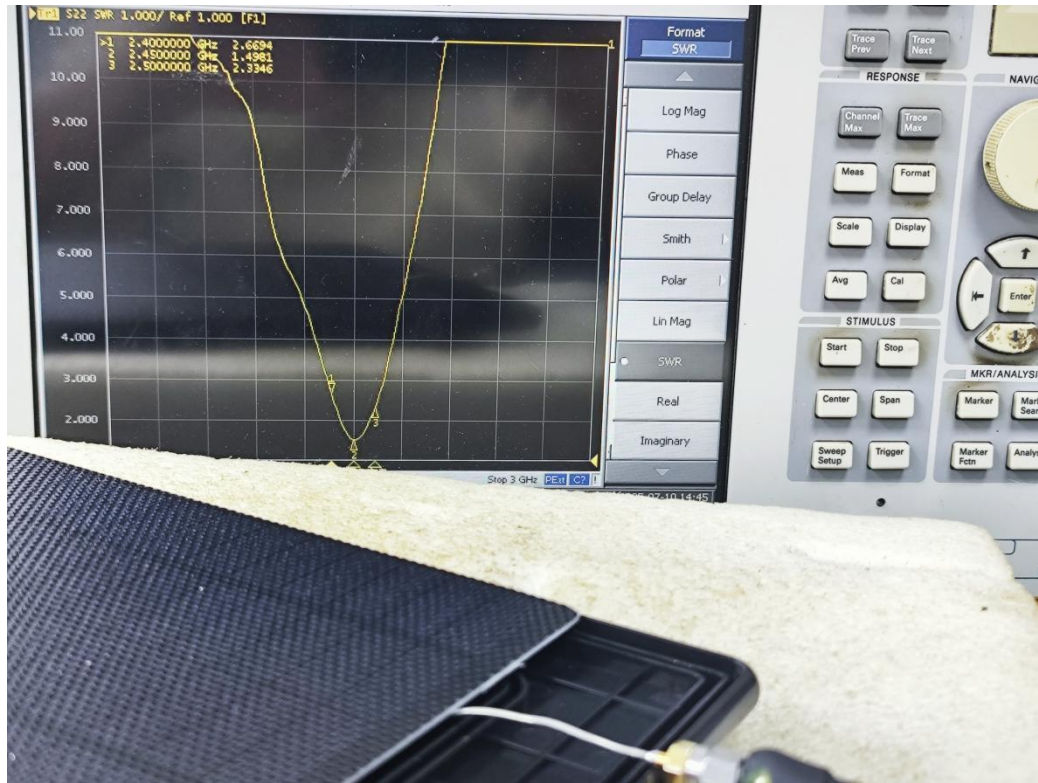
0.75pF	0402CGR75C500NT	FH (elegance and talent)
1pF	0402CG1R0C500NT	FH (elegance and talent)

II S Parameter Testing

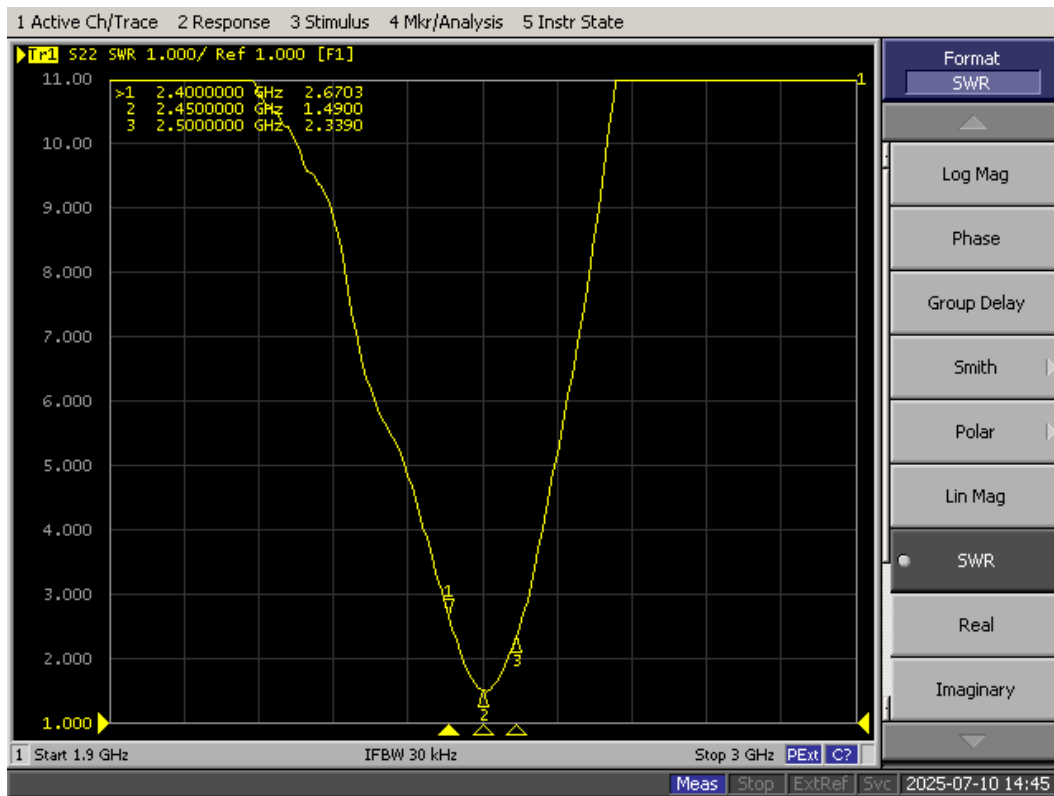


Model: E5062A, ZVB8, N9020A

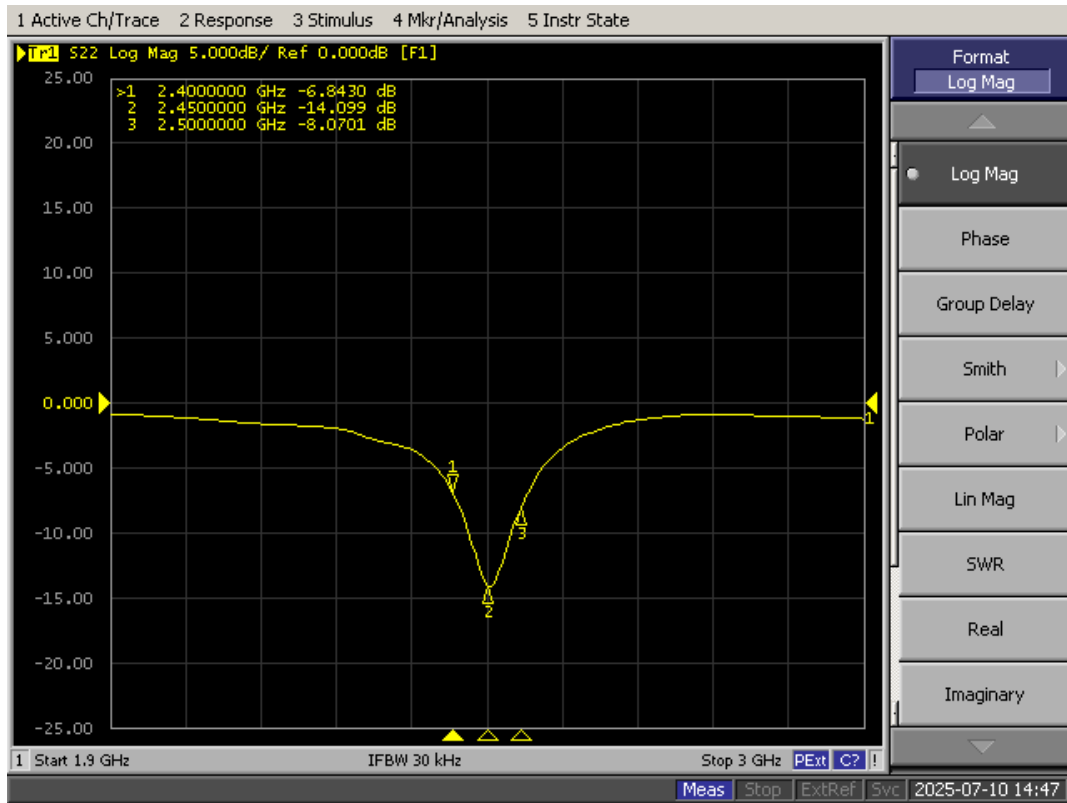
Full Machine Test Environment



Antenna Standing Wave Ratio

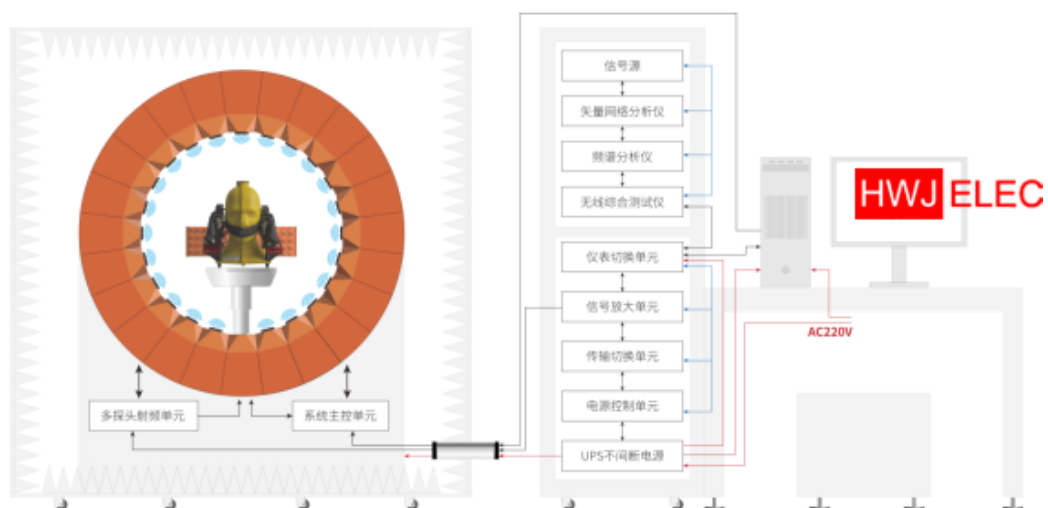


Return Loss



III 3D Microwave Anechoic Chamber Test



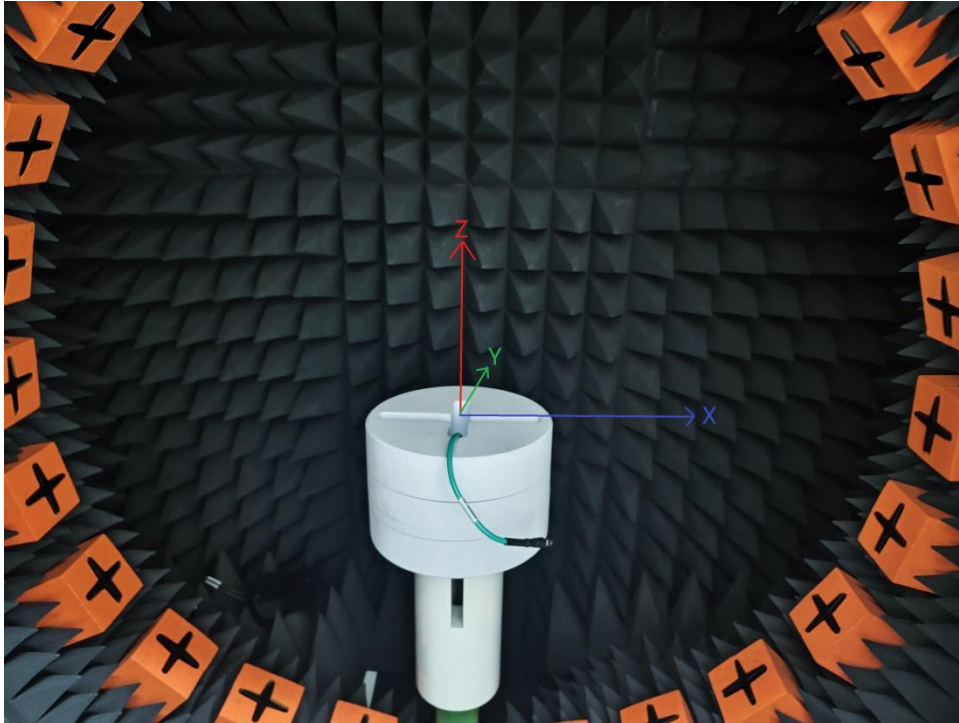


Device models: ATS-200, E5071C, CMW500

Gain and Efficiency Table

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	5.02	41.5
2410	5.26	42.66
2420	4.96	40.27
2430	4.82	37.15
2440	5	38.73
2450	4.91	39.81
2460	3.99	36.14
2470	3.98	36.64
2480	4.02	35.65
2490	3.53	34.12
2500	2.31	28.18

Darkroom Direction Diagram

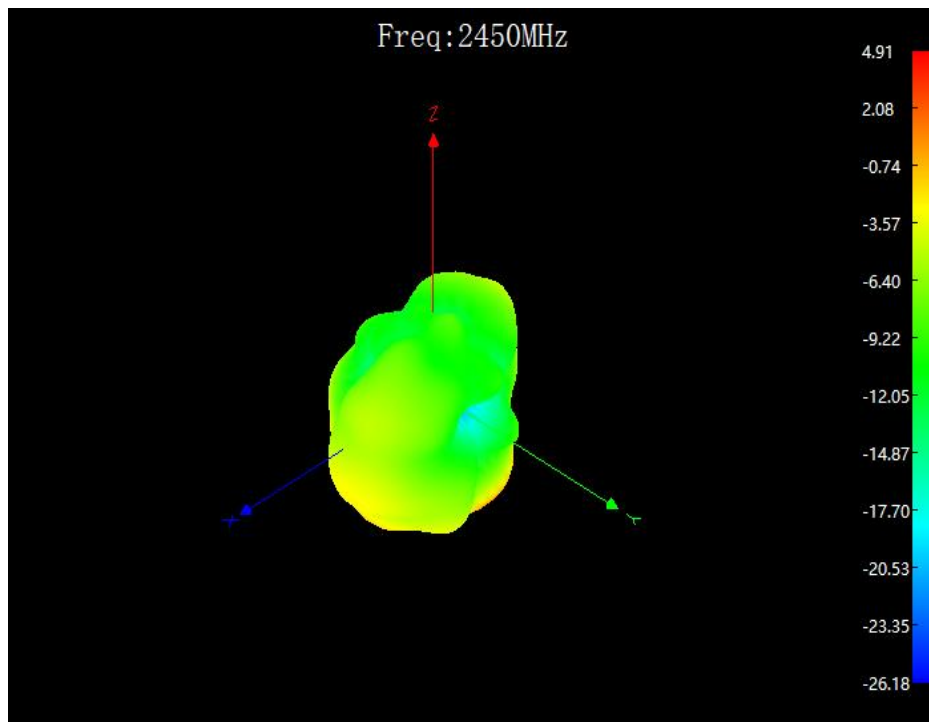


Product Darkroom Test Environment Diagram



3D Directional Chart

2450MHz



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