

2026

Antenna Matching Test Report

Customer Name: Shenzhen Zhuheng Technology
Test time: May 18, 2026

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2026/5/18



catalogue

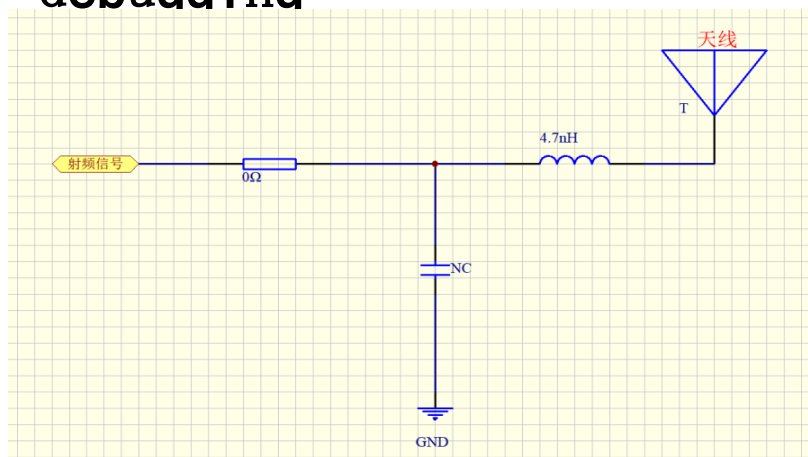
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A: 2.4G spring antenna

Antenna parameters	
length of antenna	6mm
spiral diameter	4.5mm
wire diameter	0.6mm
Antenna material	Stainless steel nickel plating
Interface Specification	Welding interface
Operating Temperature	-40°C~ +80°C



Matching debugging data Matching schematic diagram of antenna after debugging

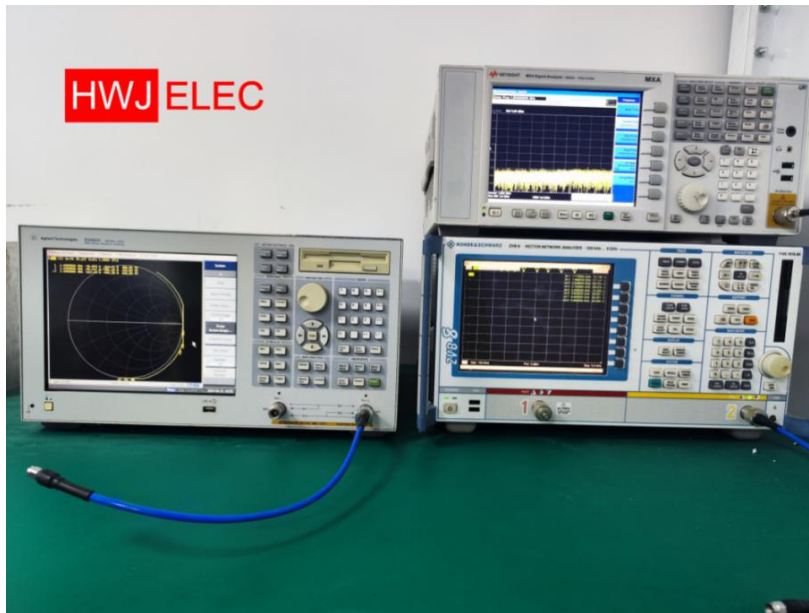


Attention: The peripheral device values required by the RF chip reference design should be used according to the chip manufacturer's reference design. The above antenna matching devices are independent of each other and cannot be replaced

Device Model

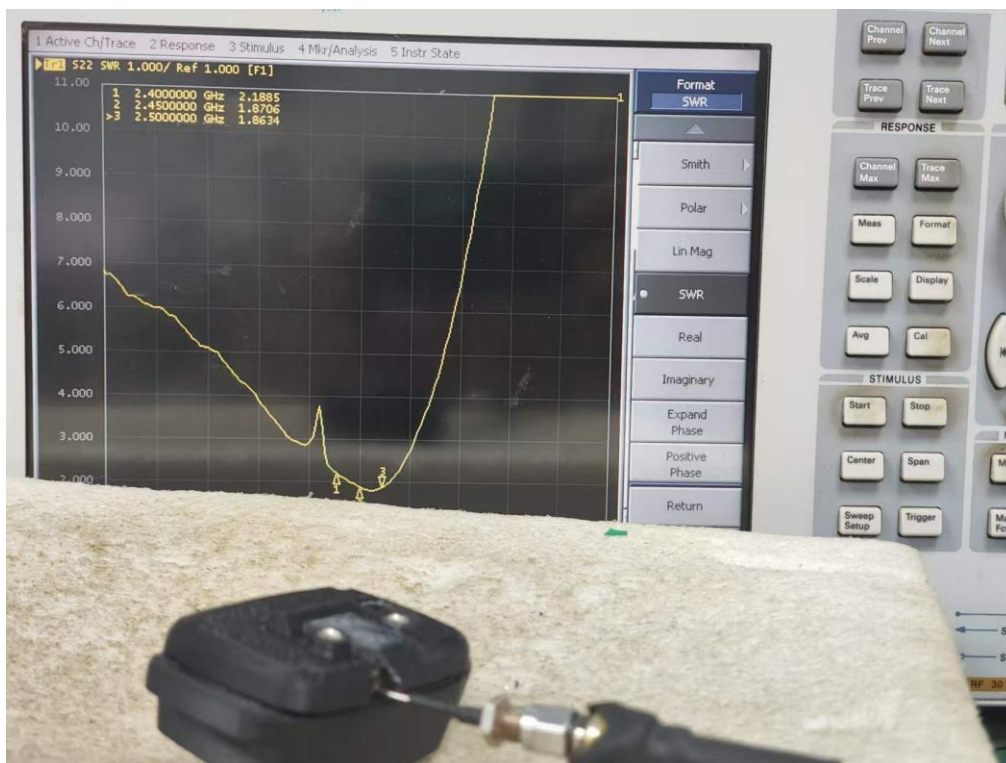
4.7nH	SDCL1005C4N7STDF	Sunlord(顺络)
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II s Parameter testing

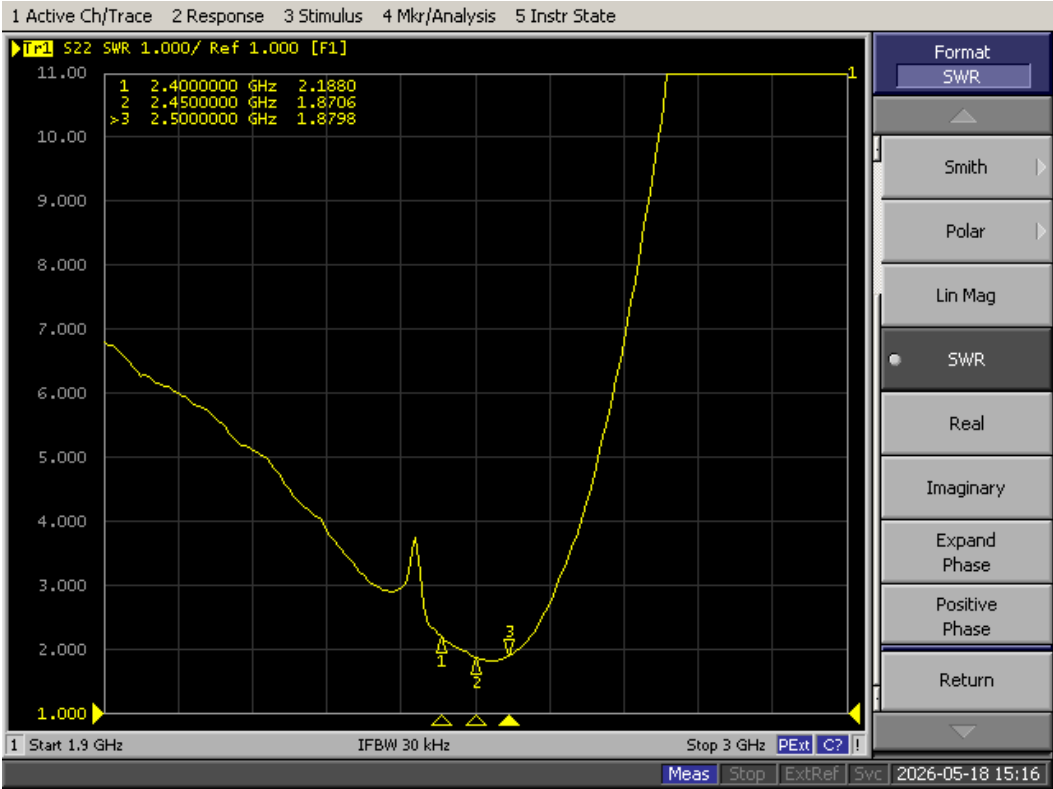


Mod el: E5062A , ZVB8 , N9020A

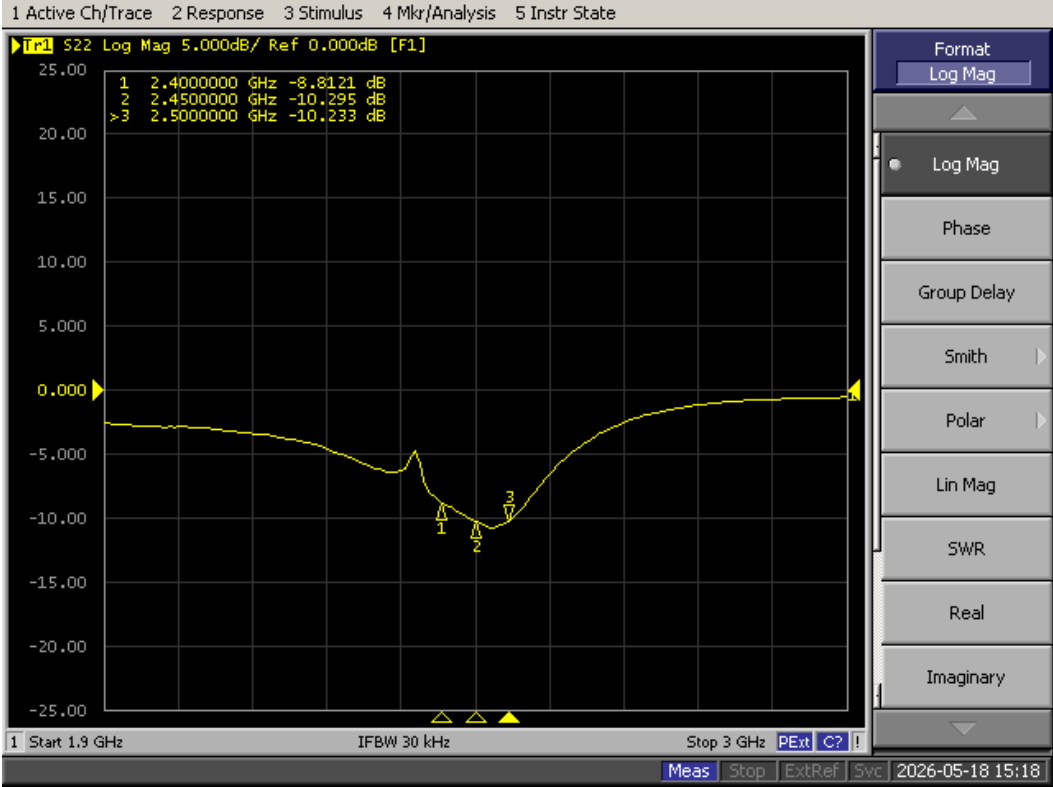
Whole machine testing environment



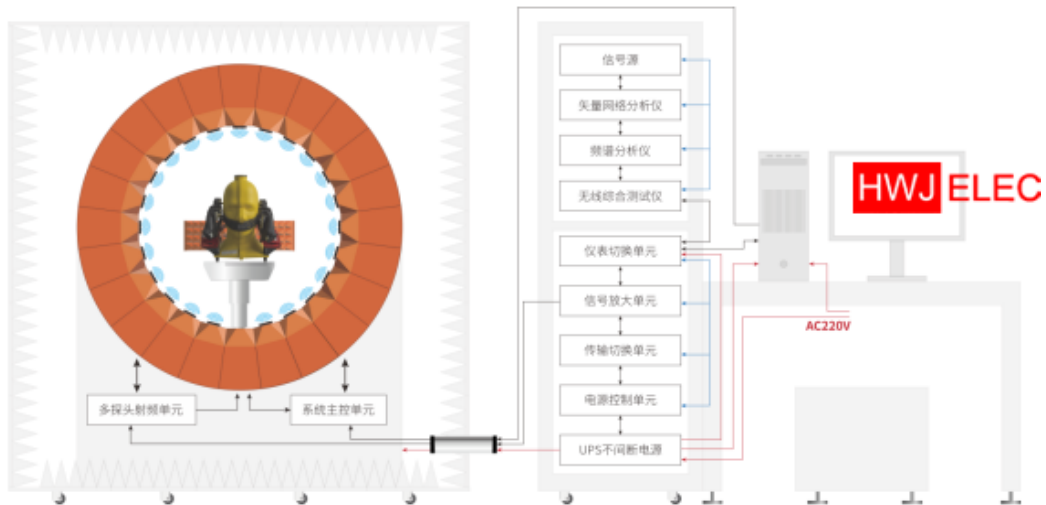
Antenna standing wave ratio



Return loss



III 3D Microwave darkroom testing

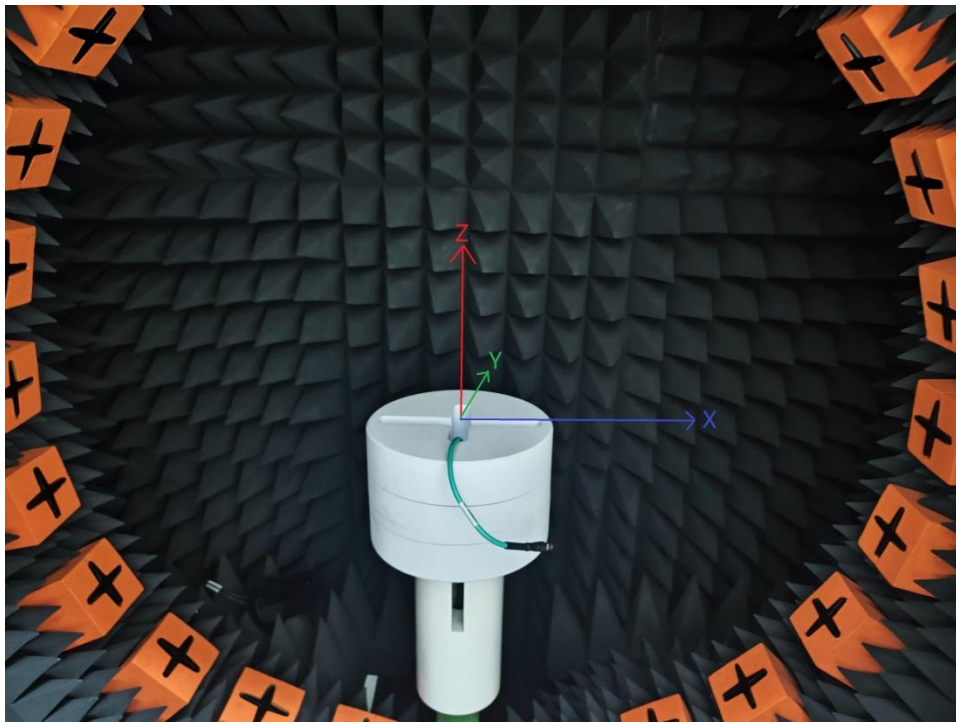


Device Model: ATS-200、E5071C、CMW50

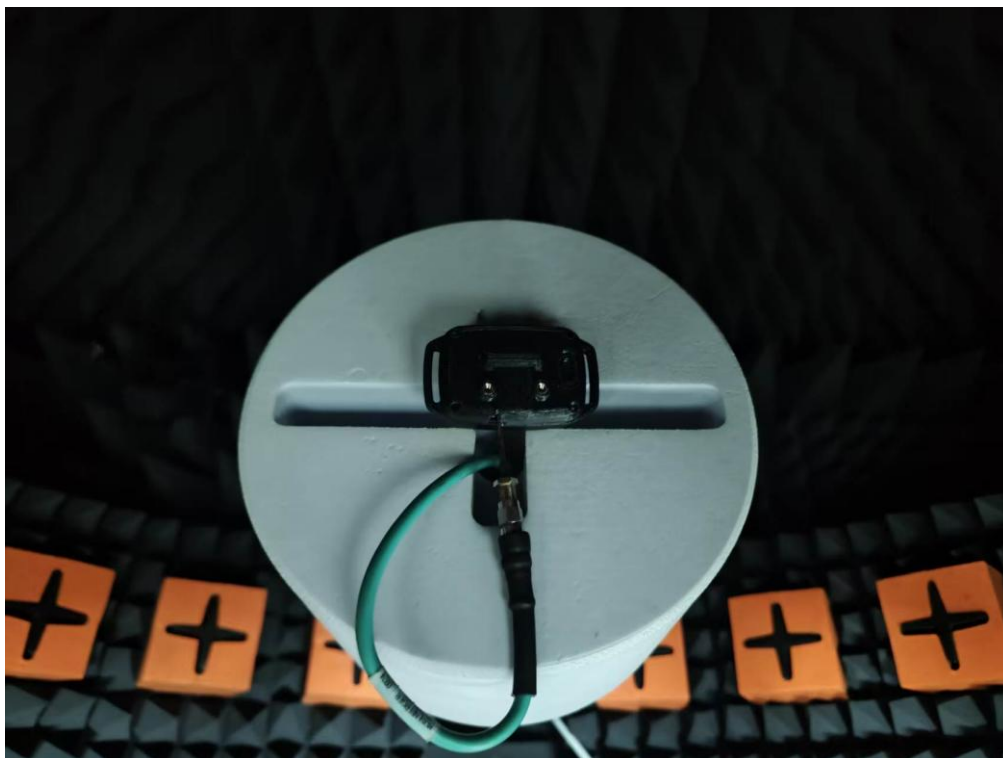
Gain and Efficiency Table

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	4.01	45.6
2410	3.76	44.57
2420	3.4	41.88
2430	2.88	37.76
2440	2.86	38.73
2450	2.57	40.74
2460	2.09	38.46
2470	2.31	39.54
2480	2.54	40.46
2490	2.23	42.17
2500	1.16	36.22

Diagram of darkroom direction

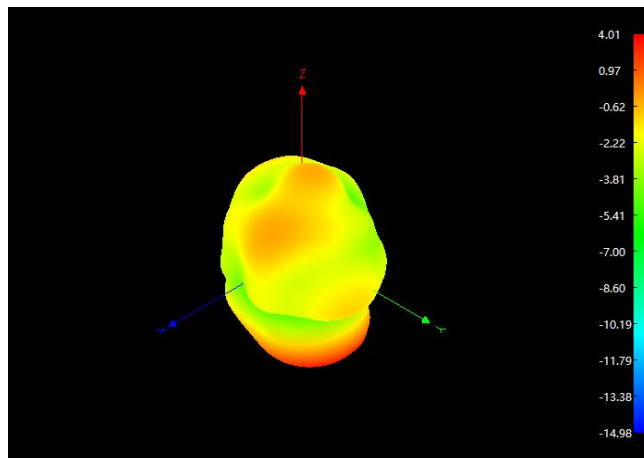


Product darkroom testing environment diagram

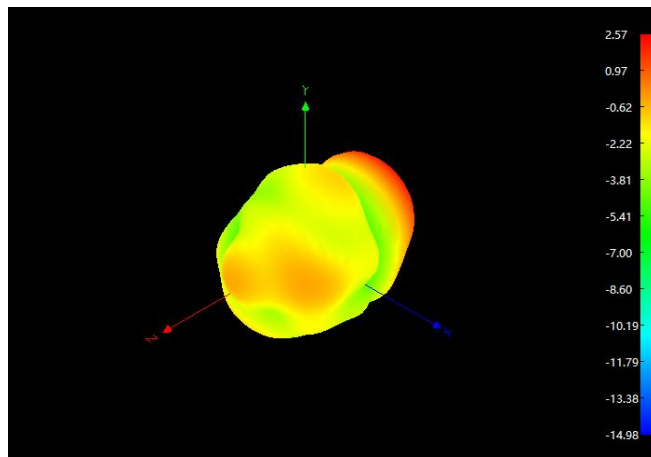


3D Radiation pattern

2400MHz



2450MHz



2500MHz

