

2024

Antenna Specification

Manufacturer: Guangzhou Hanwuji Electronic Technology Co., Ltd.

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Guangdong Province

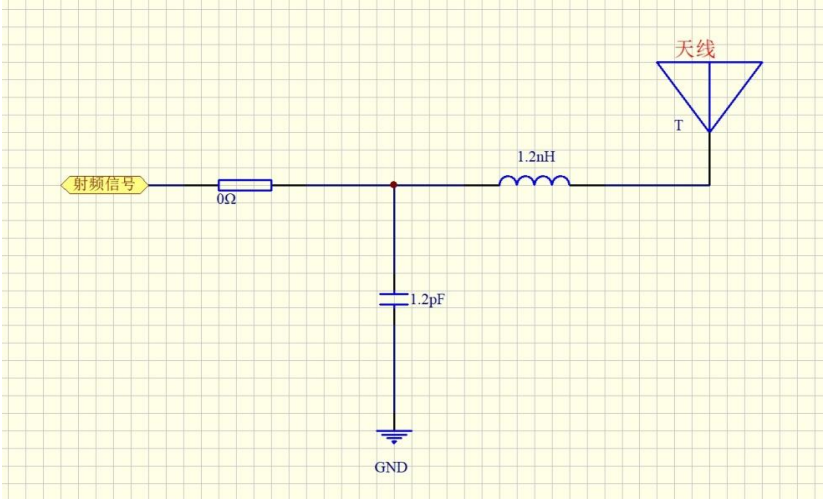
Test Date: December 04, 2024



CA-C03 Antenna 2.4G

I Matching Adjustment Data

Matching schematic diagram of the antenna after adjustment



High-frequency inductor model:

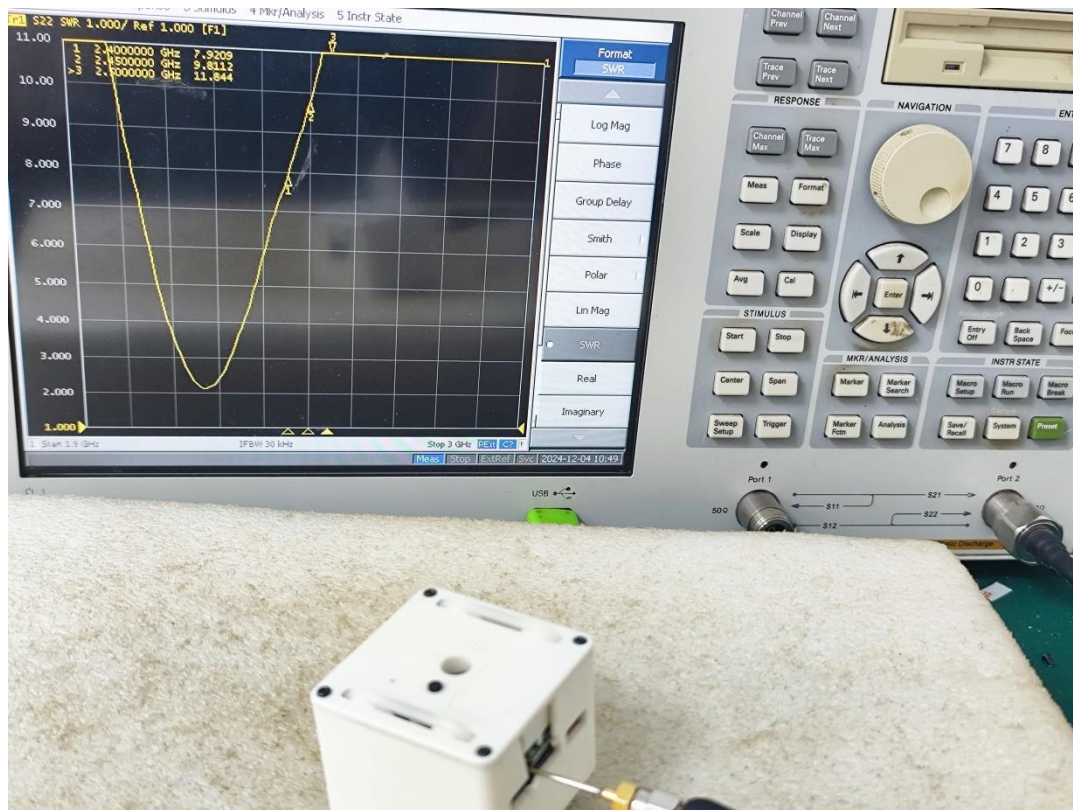
Inductance	(nH)	
1.2	SDCL1005CIN2STDF	Sunlord

II S Parameter Testing

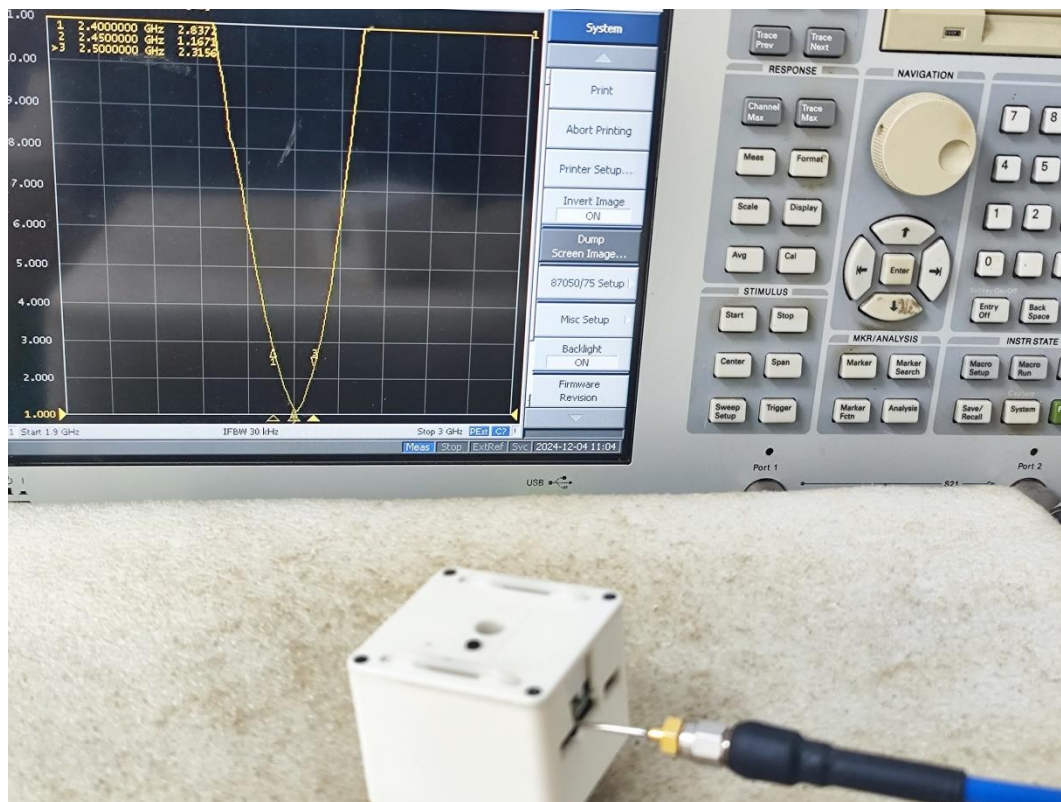


Overall test environment

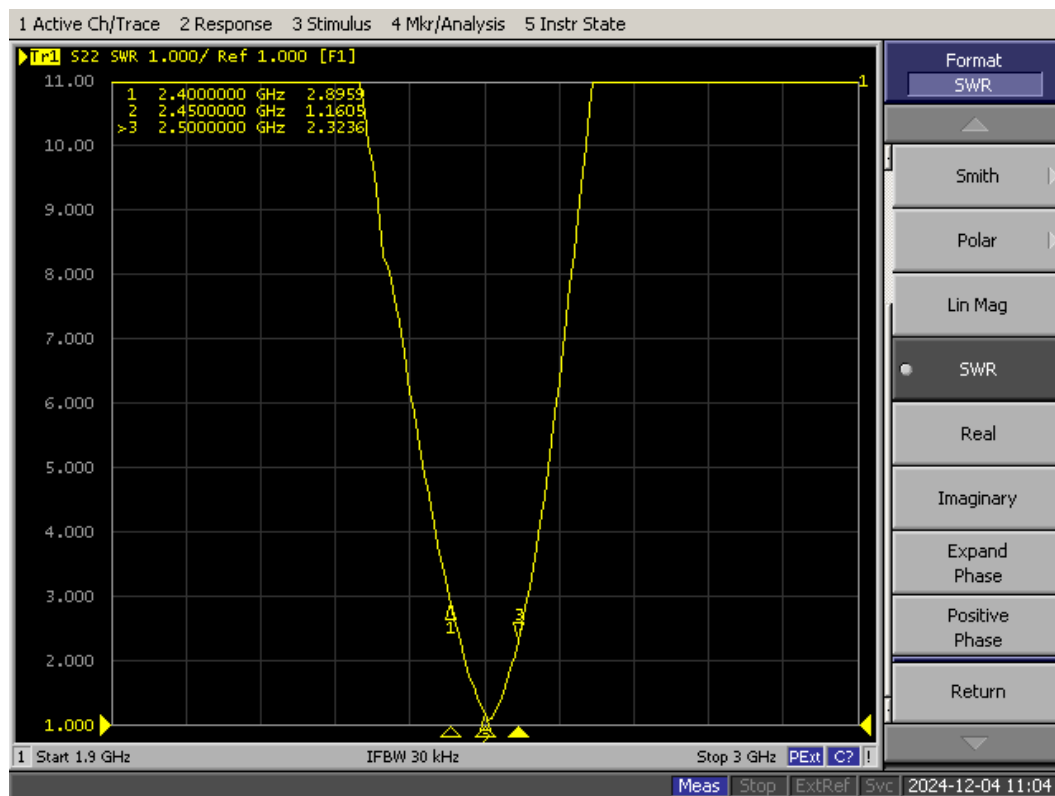
Initial state



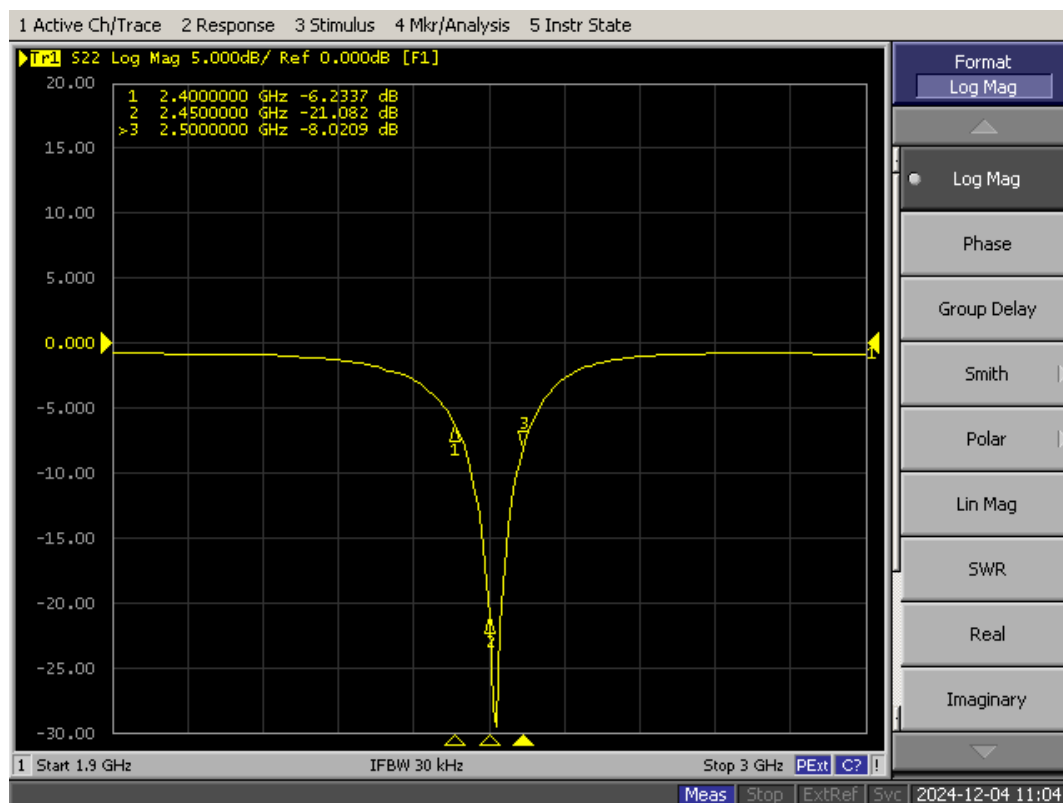
After debugging and matching



Antenna standing wave ratio (after debugging and matching)



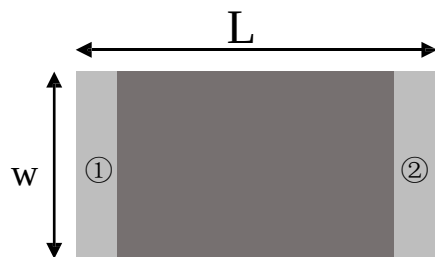
Return loss (after debugging and matching)



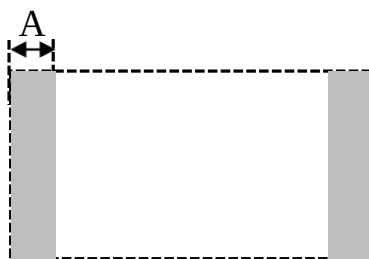
III 3D Microwave Chamber Test (after debugging and matching)



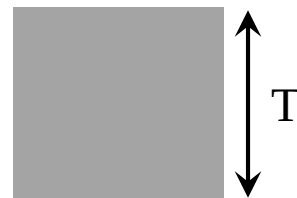
Dimensions (Unit: mm)



(Top View)



(Bottom View)



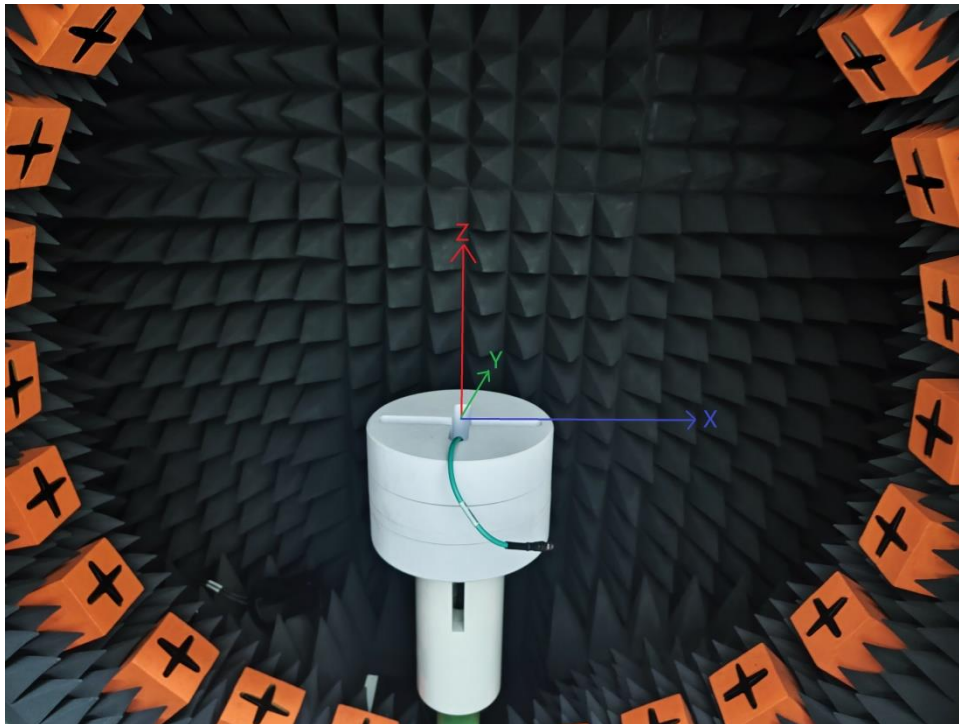
(Side View)

Symbols	L	W	T	A
Dimensions	1.60 ± 0.20	0.80 ± 0.20	0.80 ± 0.20	0.30 ± 0.10

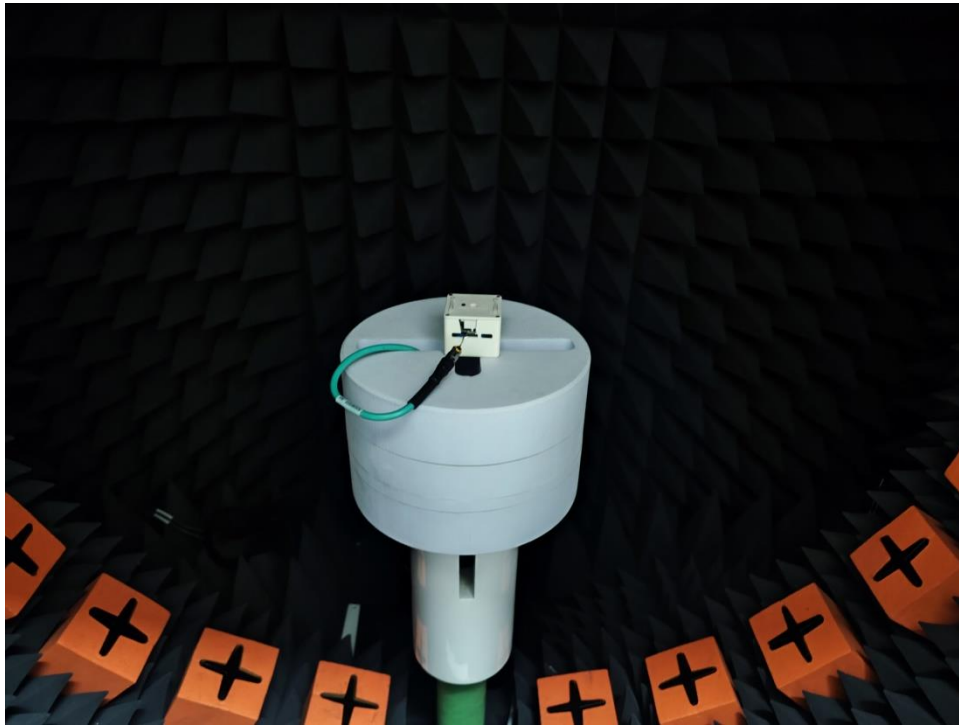
Gain and Efficiency Table

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	3.73	49.66
2410	4.04	53.46
2420	4.01	54.08
2430	4.06	53.21
2440	4.12	56.1
2450	3.79	56.23
2460	3.18	52.24
2470	3.21	51.64
2480	2.97	48.31
2490	2.44	44.87
2500	1.75	40.83

Diagram of darkroom orientation

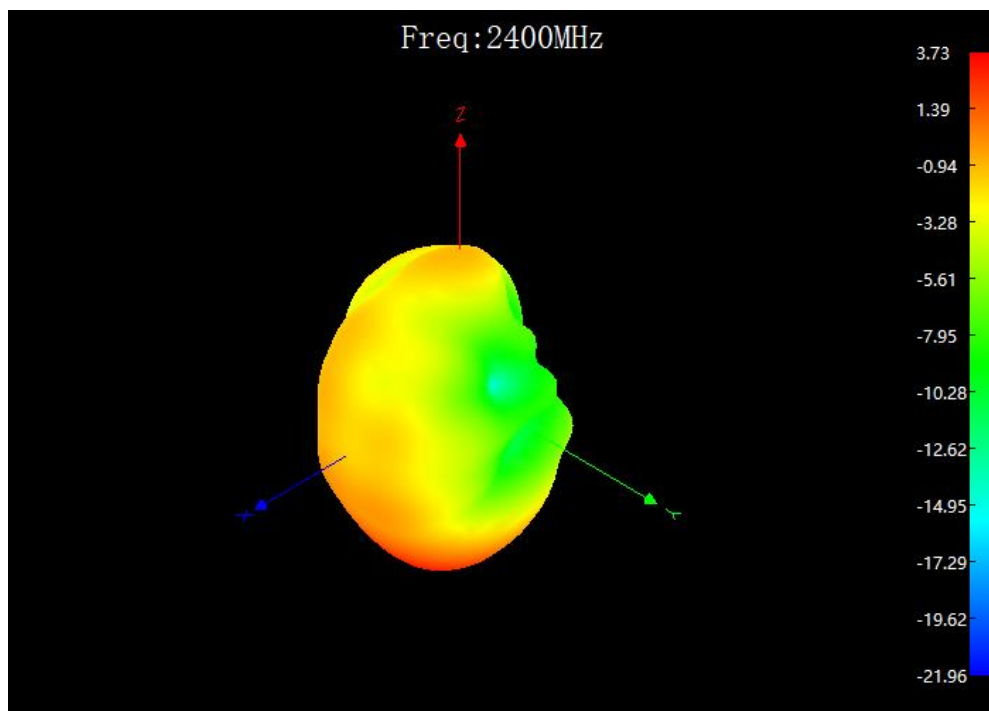


Product darkroom testing environment diagram

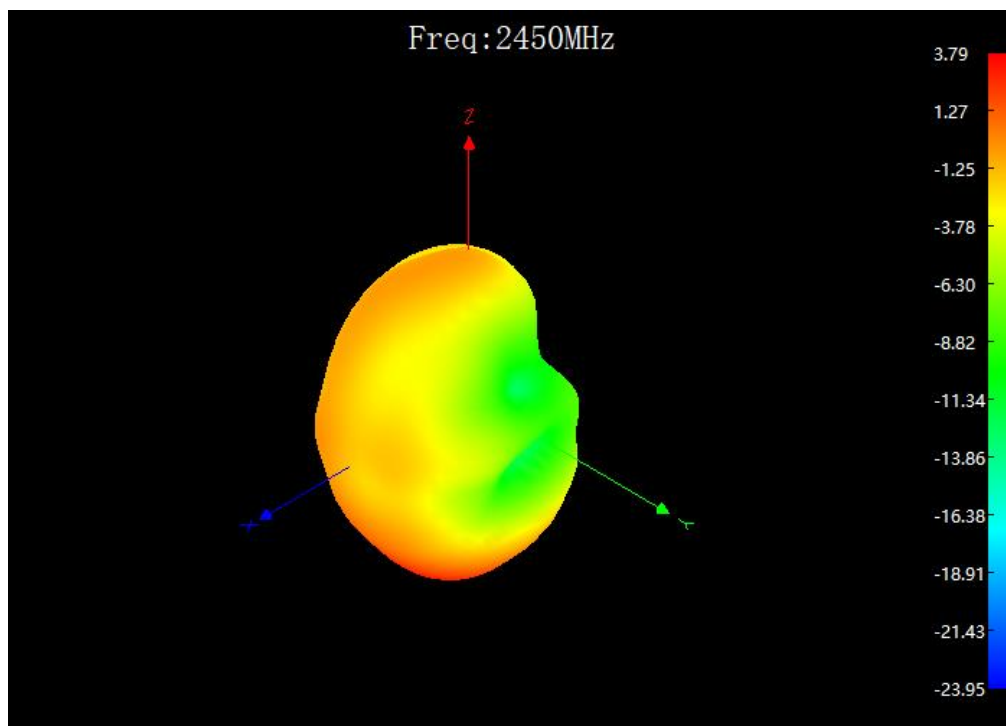


3D Directional pattern

2400MHz



2450MHz



2500MHz

