



好天线 · 优比造

东莞市优比电子有限公司

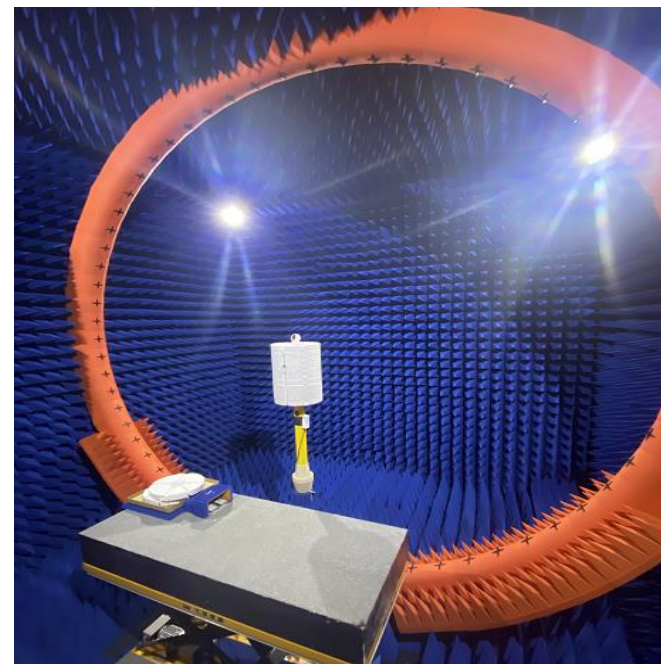
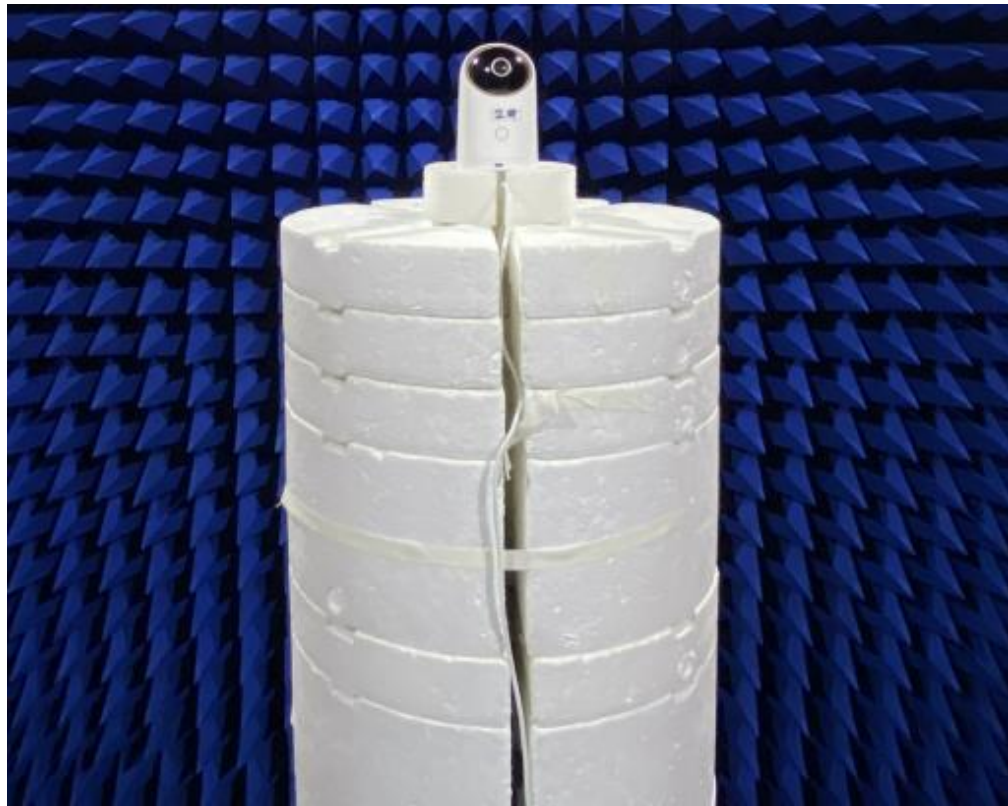
Dongguan UB Electronics Co., Ltd

GD02 3K Antenna Study

- **Client Name: 海雀**
- **Project Name: GD02 3K**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2022.12.14**

Internal Antenna

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Testing 3D microwave darkroom(6m*6m*6m)

Testing environment

External Antenna

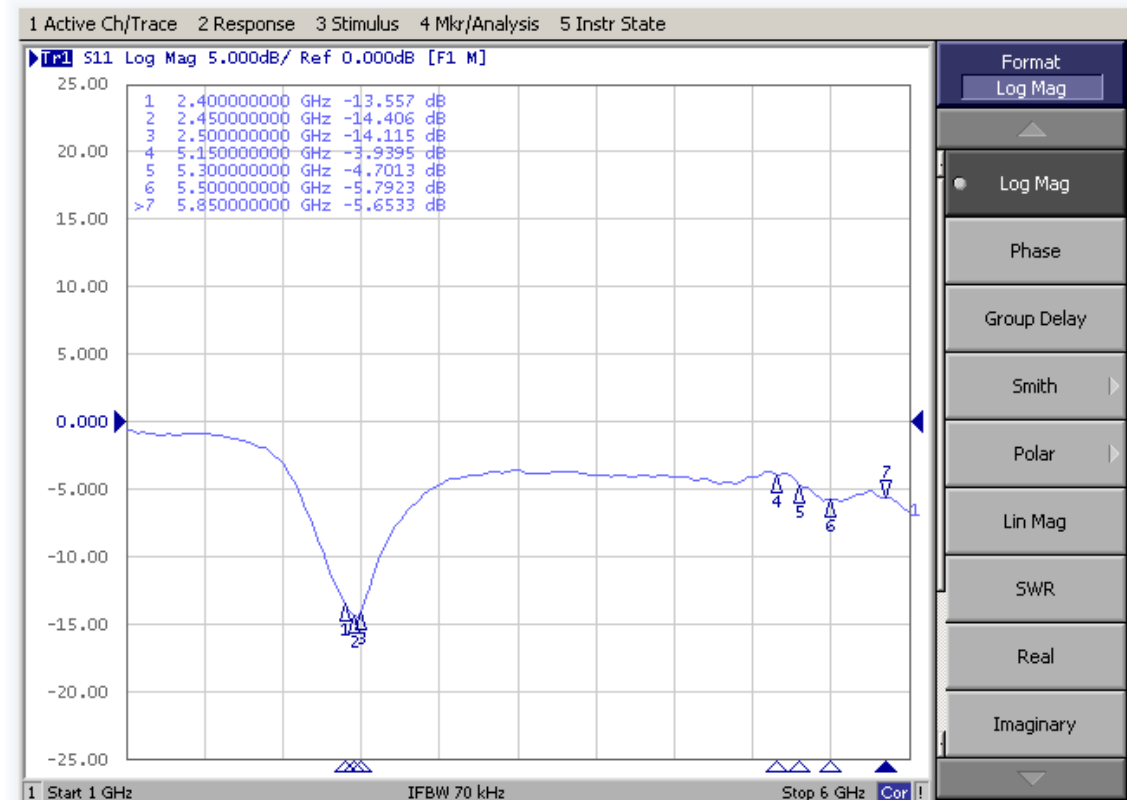
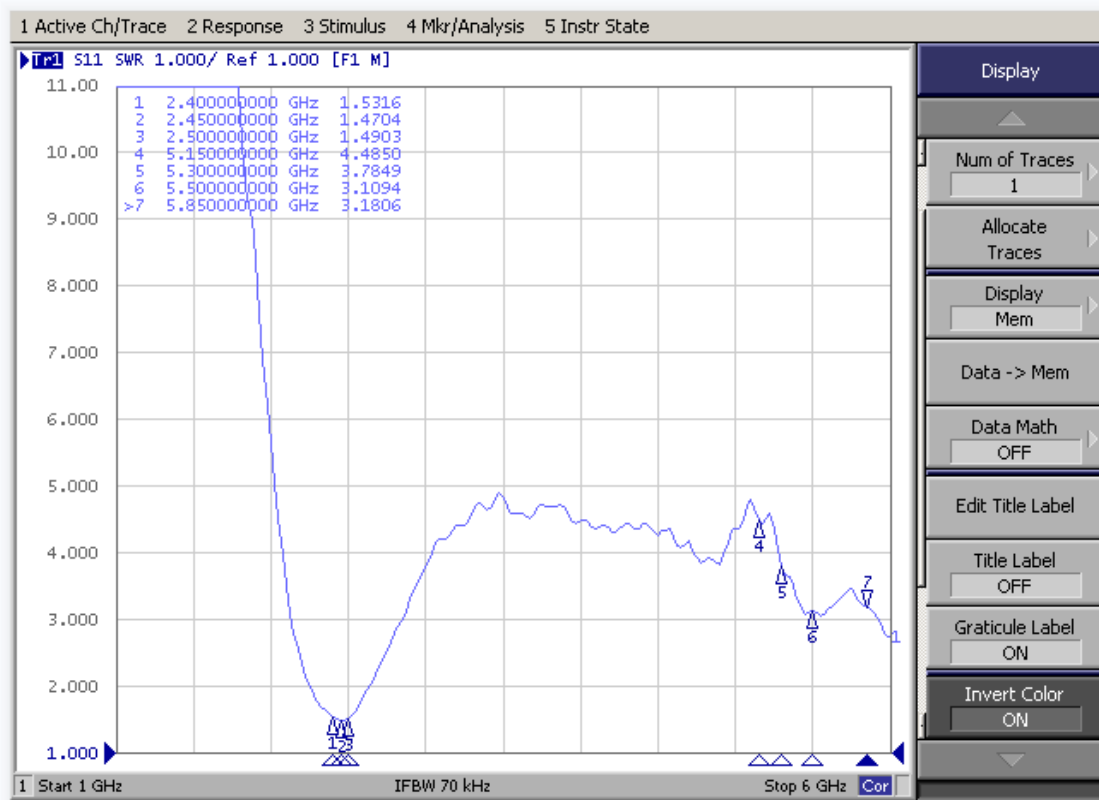
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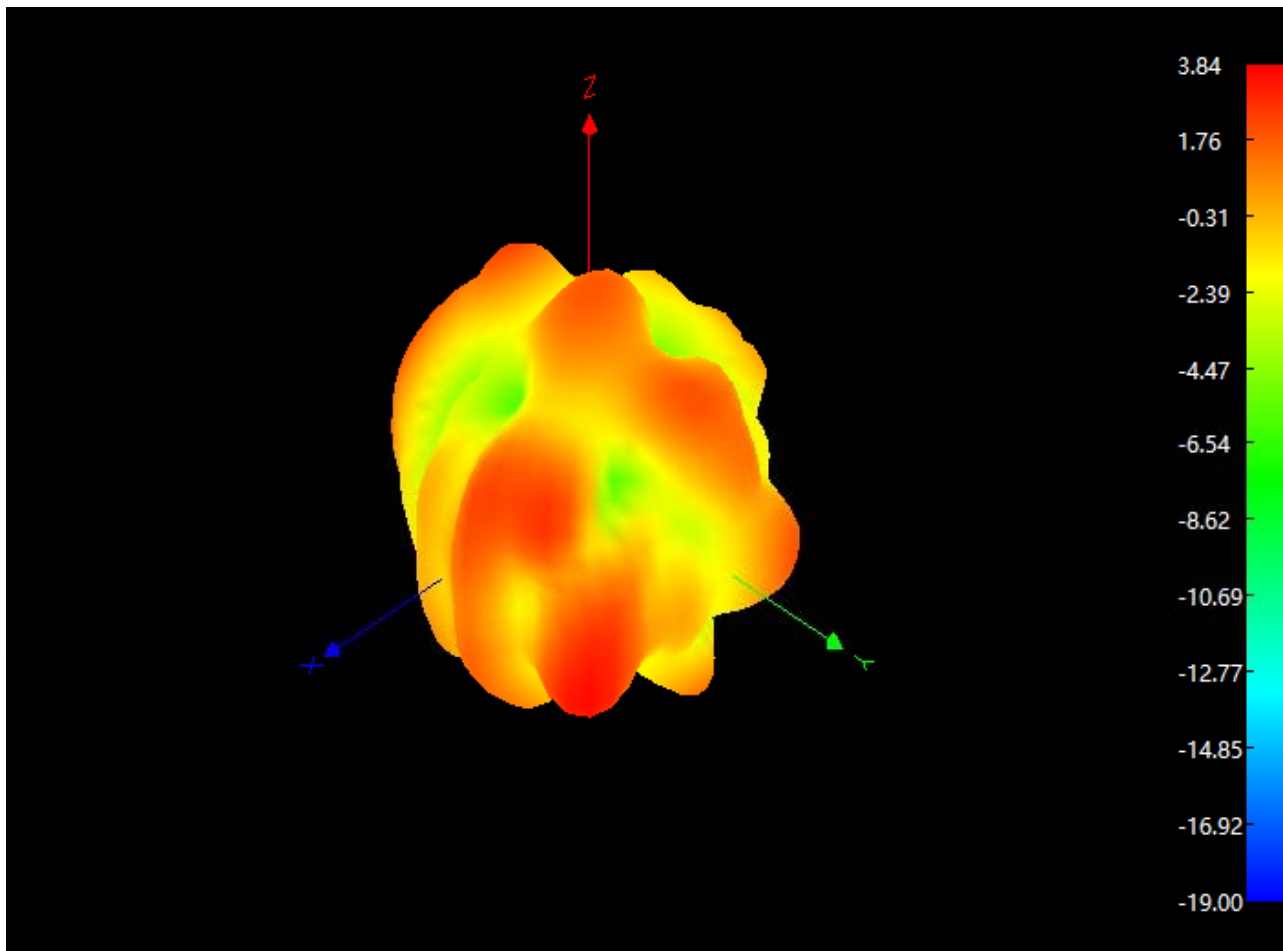
Antenna

- Antenna name: WIFI
- Size: 15.9mm*5mm*0.4mm (不绣钢)
- UB01NT2D1172A
- Covers : 2.4G

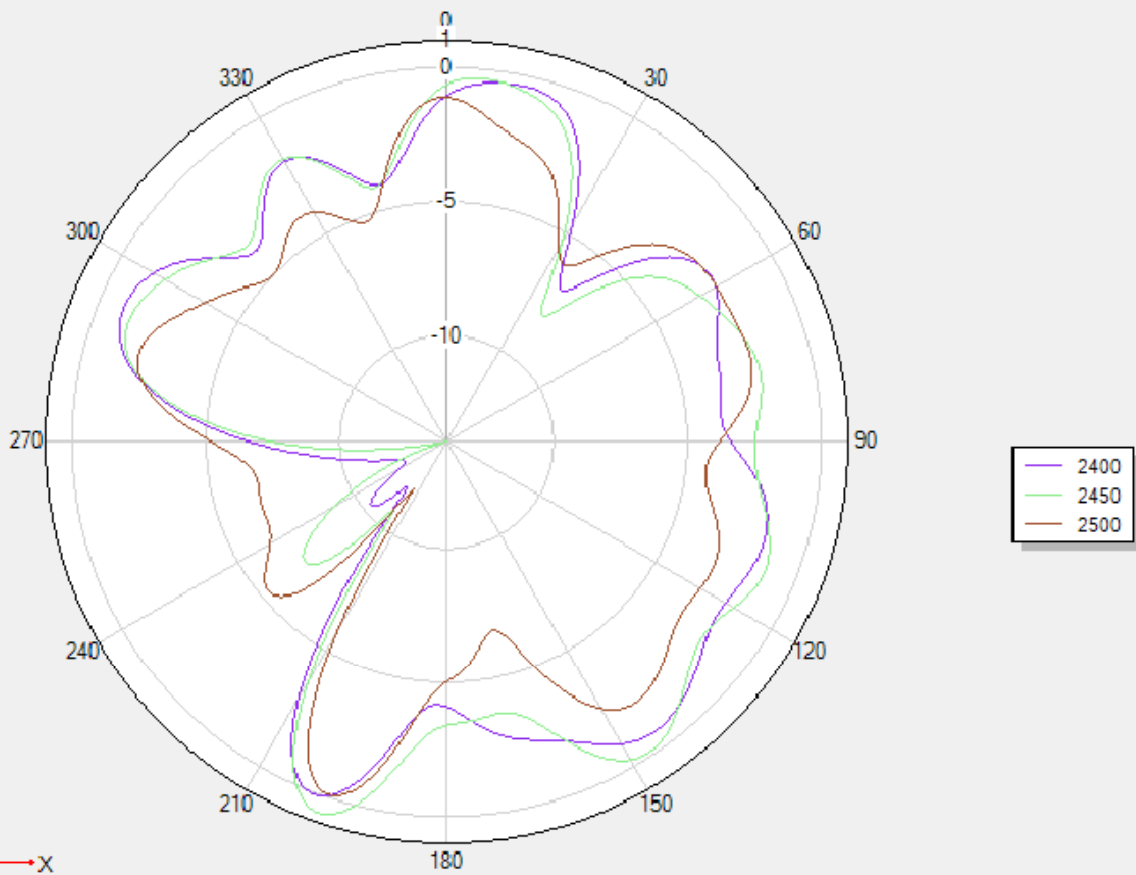
S Parameter_Return Loss&VSWR



Radiation Pattern For WIFI Antenna



Radiation Pattern For WIFI Antenna(Phi 0)



Efficiency and Gain Main Antenna(3D Free Space)

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.22	2.25	2.34	2.39	2.31	2.25	2.82	3.04	2.28	2.75	2.82
Efficiency (%)	53.17	53.65	52.95	53.08	53.22	53.10	54.06	55.06	53.01	54.20	54.71

	信道	TRP	EIRP	TIS	EIS
WIFI_G	1	14.05	20.48	-72.35	-79.08
	6	15.19	21.68	-73.22	-79.71
	13	15.86	21.90	-72.86	-78.70

Conclusion

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- Antenna covers 2.4G.
- Test shows excellent performance, VSWR match < 2.0in working band.
- Antenna is small: = 15.9mm*5mm*0.4mm (不绣钢)