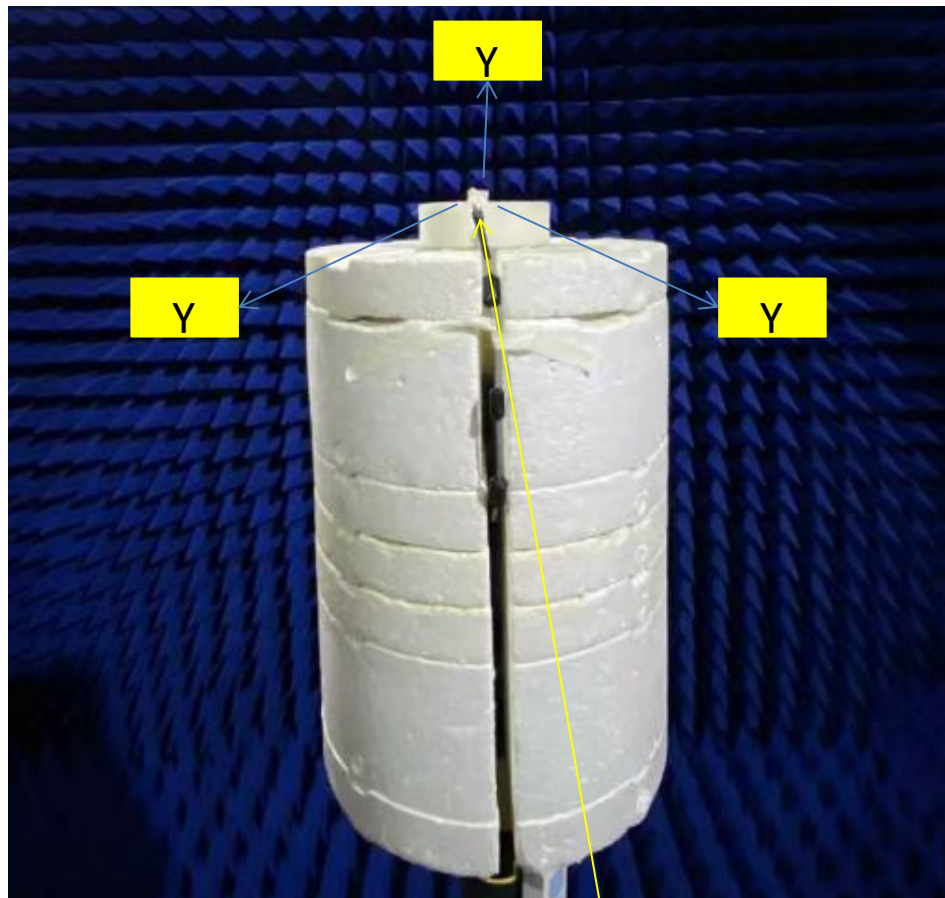
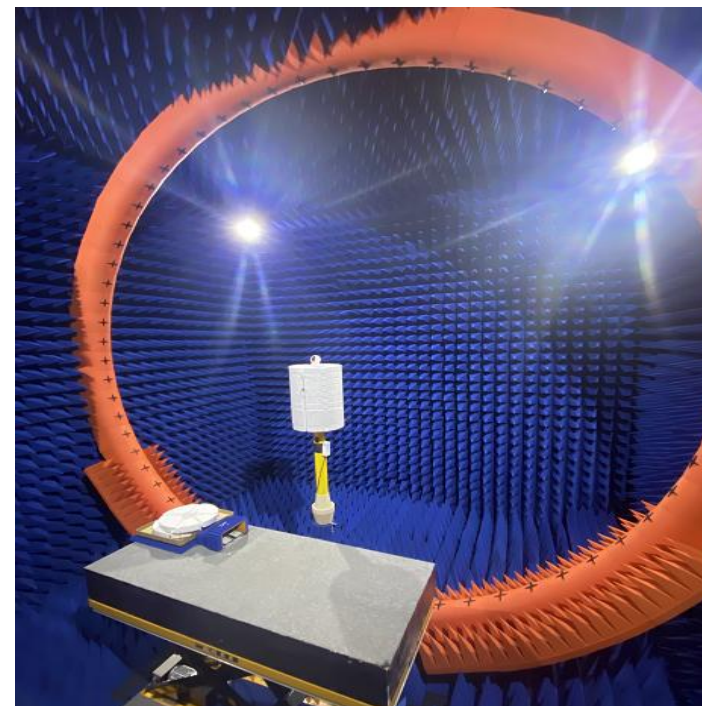


Antenna Study

- **Client Name: RheinLightingTechnology Co., Ltd**
- **Project Name: LED Recessed Ligh**
- **Model: RH-RA-15A**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2025.01.05**

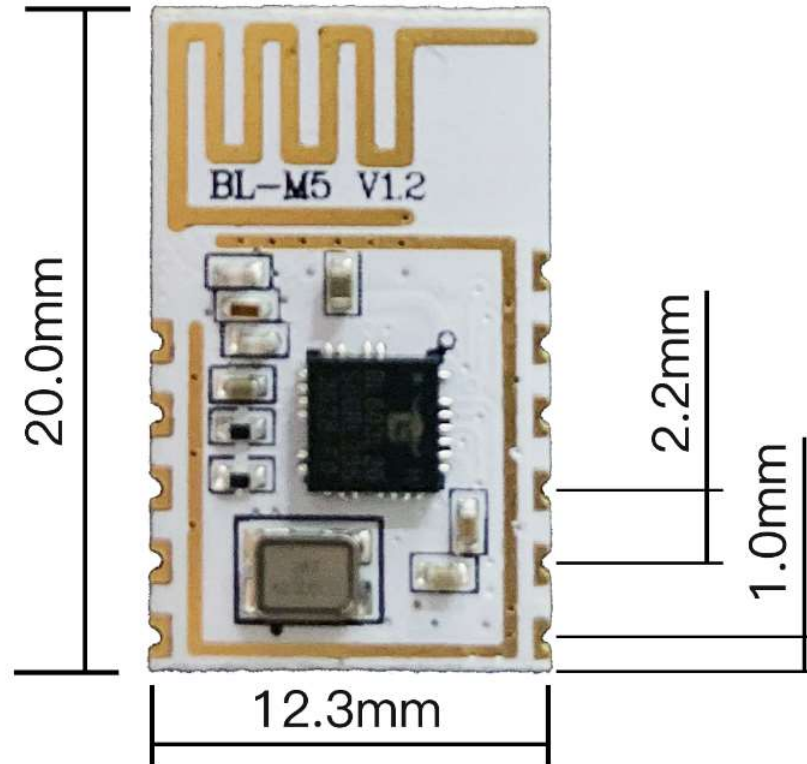
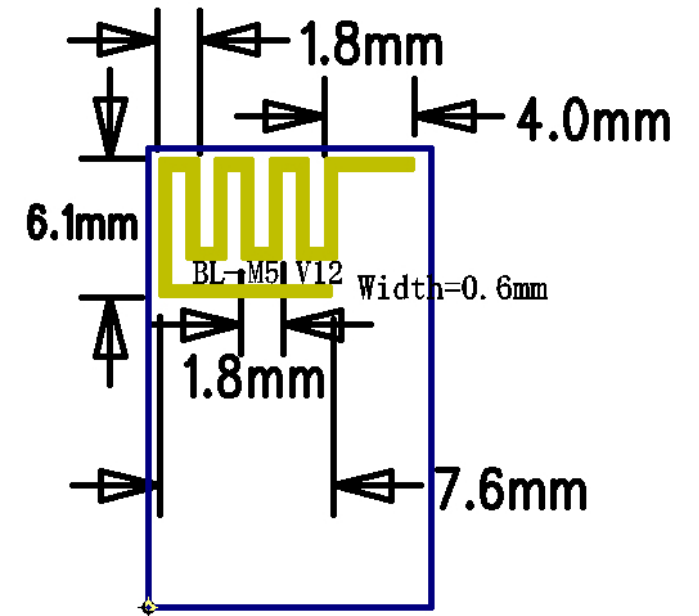


Testing environment



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

- Antenna name: 2.4G
- Covers : 2400/2500MHz

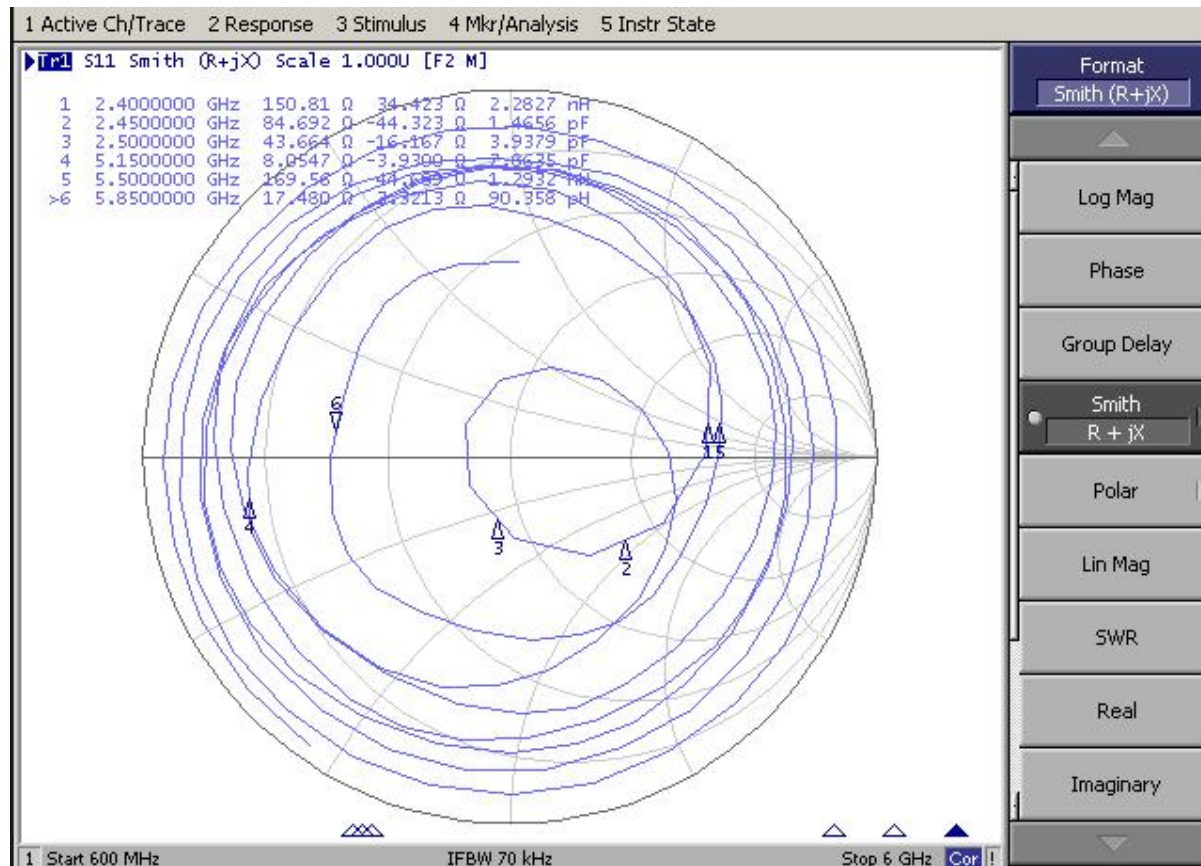
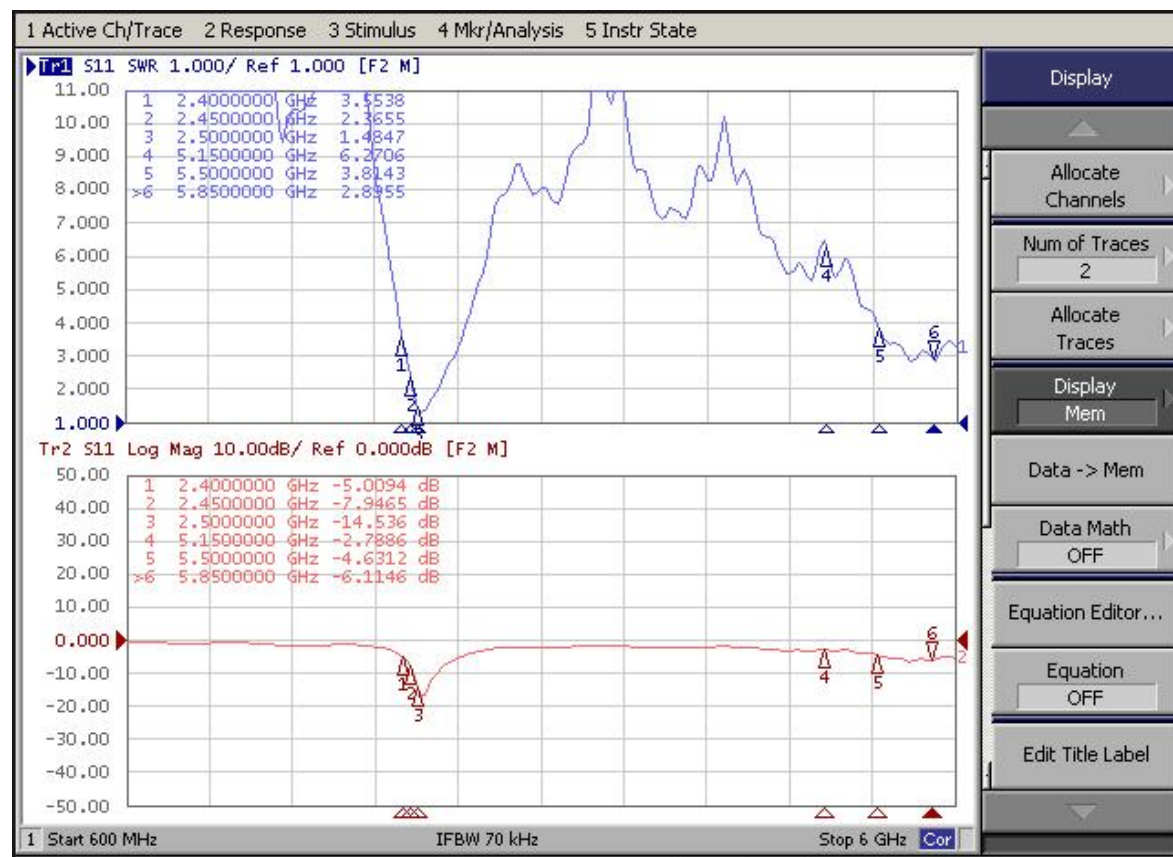


Antenna



S Parameter_Return Loss&VSWR-Smith

Dongguan UB Electronics Co., Ltd



Efficiency and Gain

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)	-0.44	-0.12	0.18	0.72	0.89	0.90	1.04	1.40	2.07	2.56	2.71
Efficiency (%)	24.55	26.58	27.91	30.79	33.28	35.92	39.46	42.73	44.57	45.91	46.92

