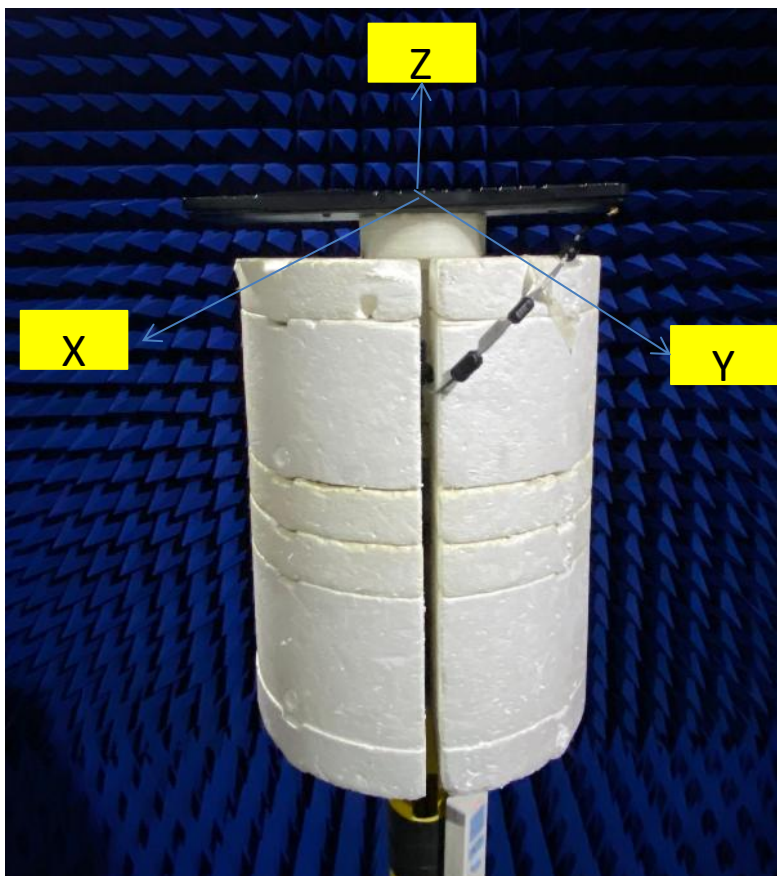
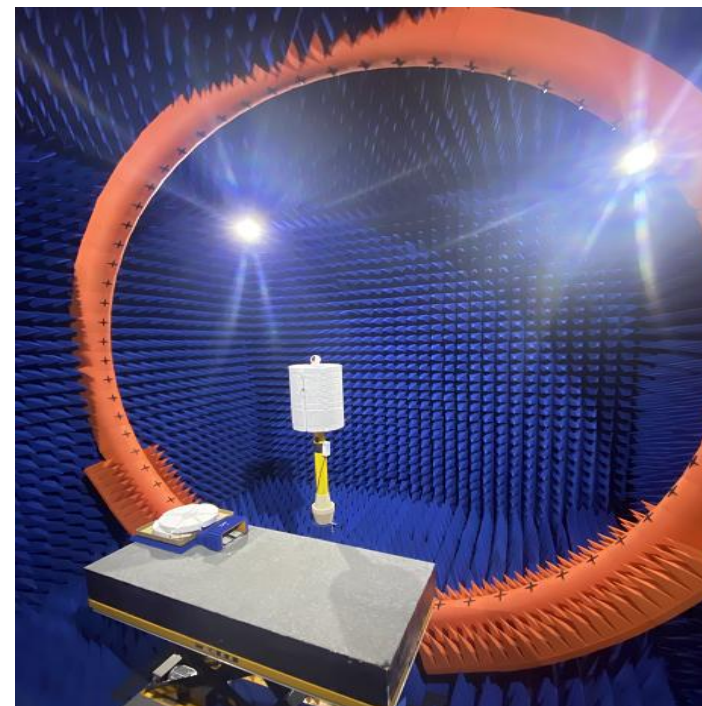


Antenna Study

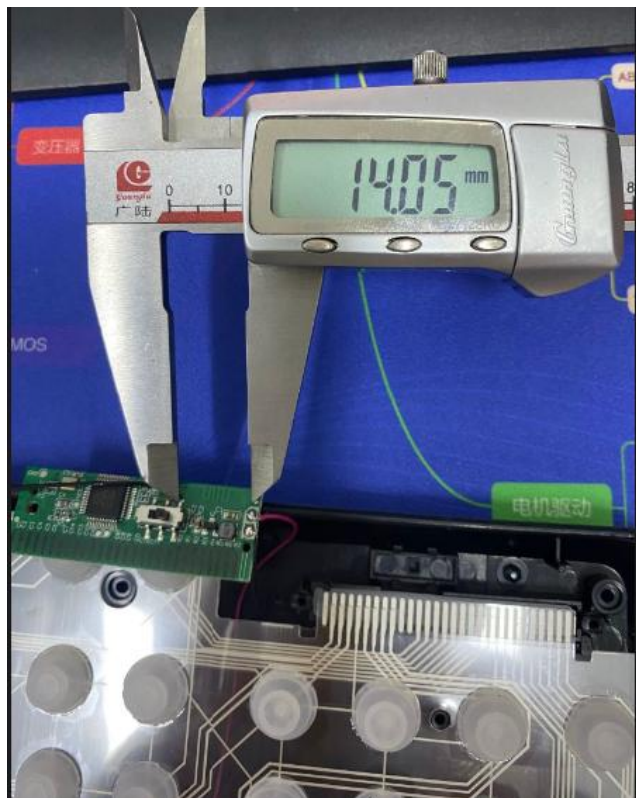
- **Client Name: Zaidtek Electronic Technology (Xiamen) Co., Ltd.**
- **Project Name: 键盘**
- **Model: HK8013, HM8190**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2025.02.19**



Testing environment



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

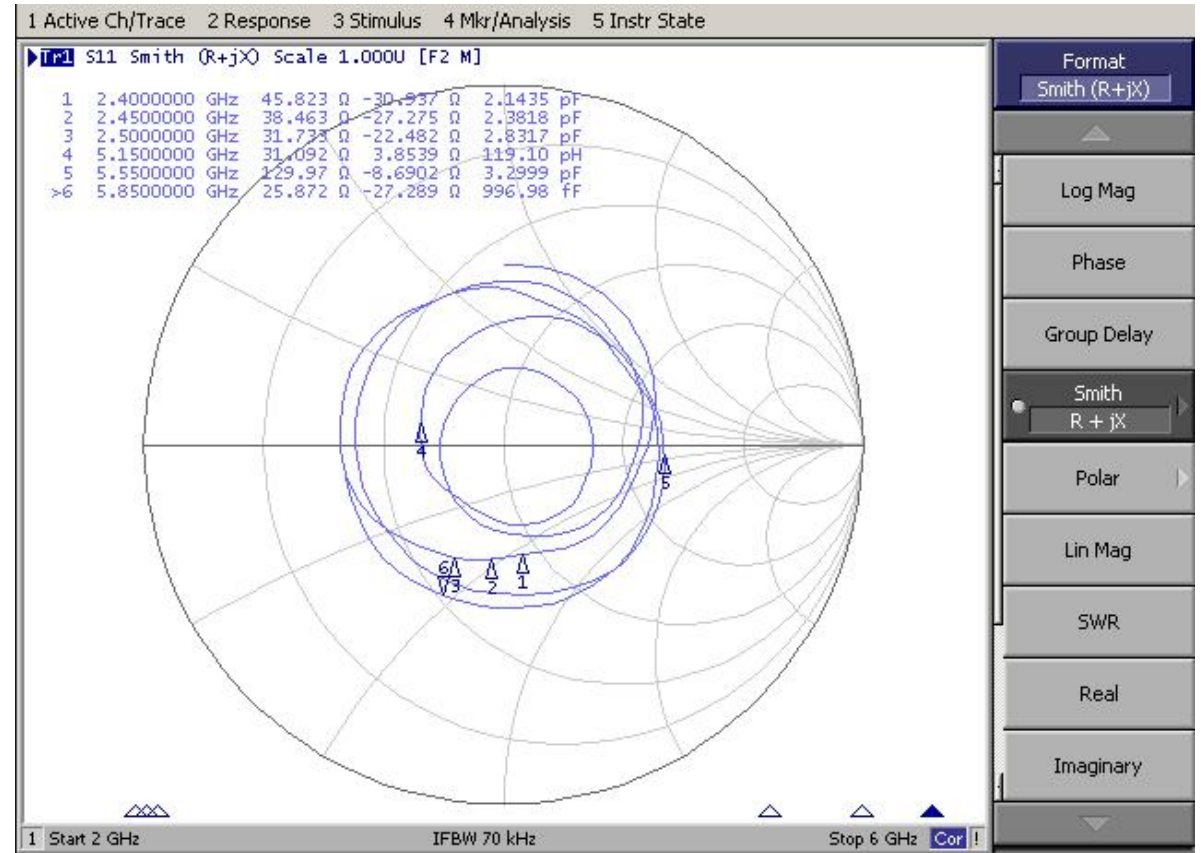
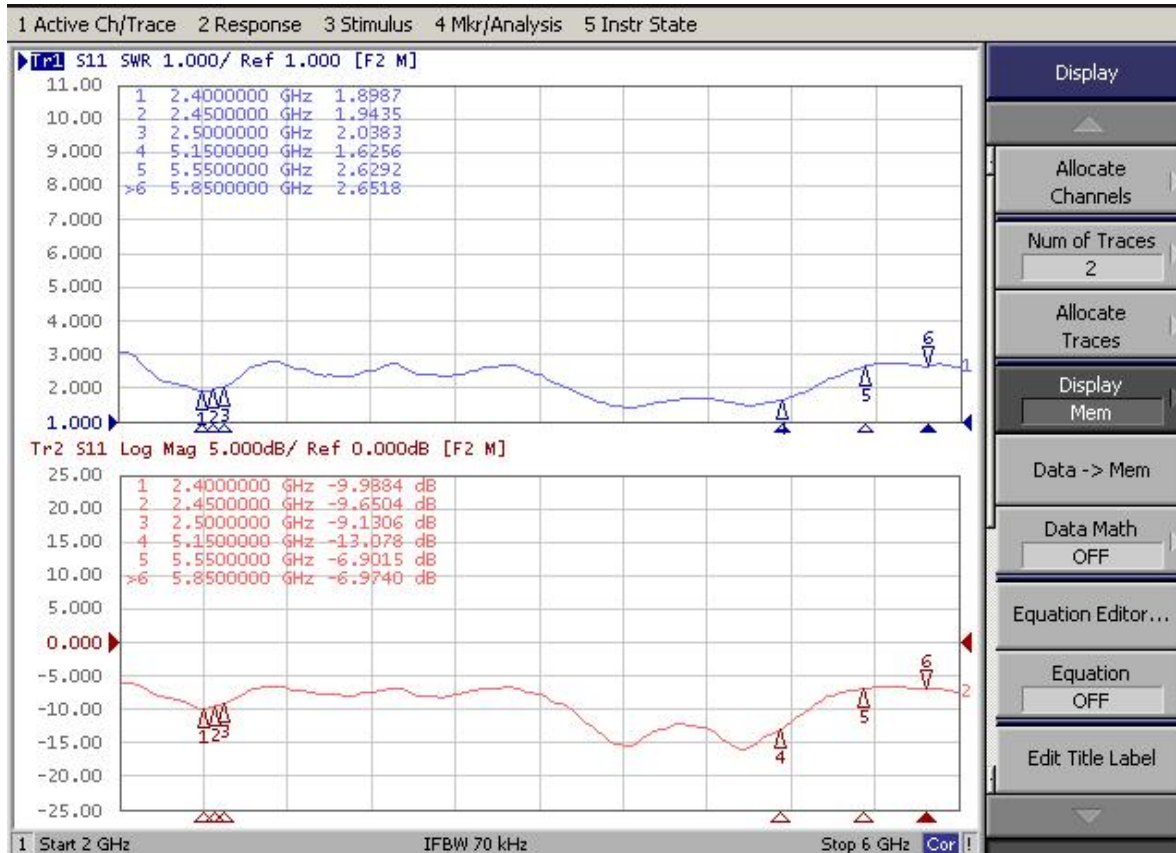


- Antenna name: 2.4G
- Covers : 2400/2500MHz

Antenna

S Parameter_Return Loss&VSWR-Smith

Dongguan UB Electronics Co., Ltd



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)	-2.20	-2.35	-2.52	-2.86	-2.98	-3.47	-3.52	-3.78	-3.79	-3.37	-3.17
Efficiency (%)	15.38	15.23	15.51	15.49	16.01	14.92	14.94	14.17	14.21	14.51	14.65

