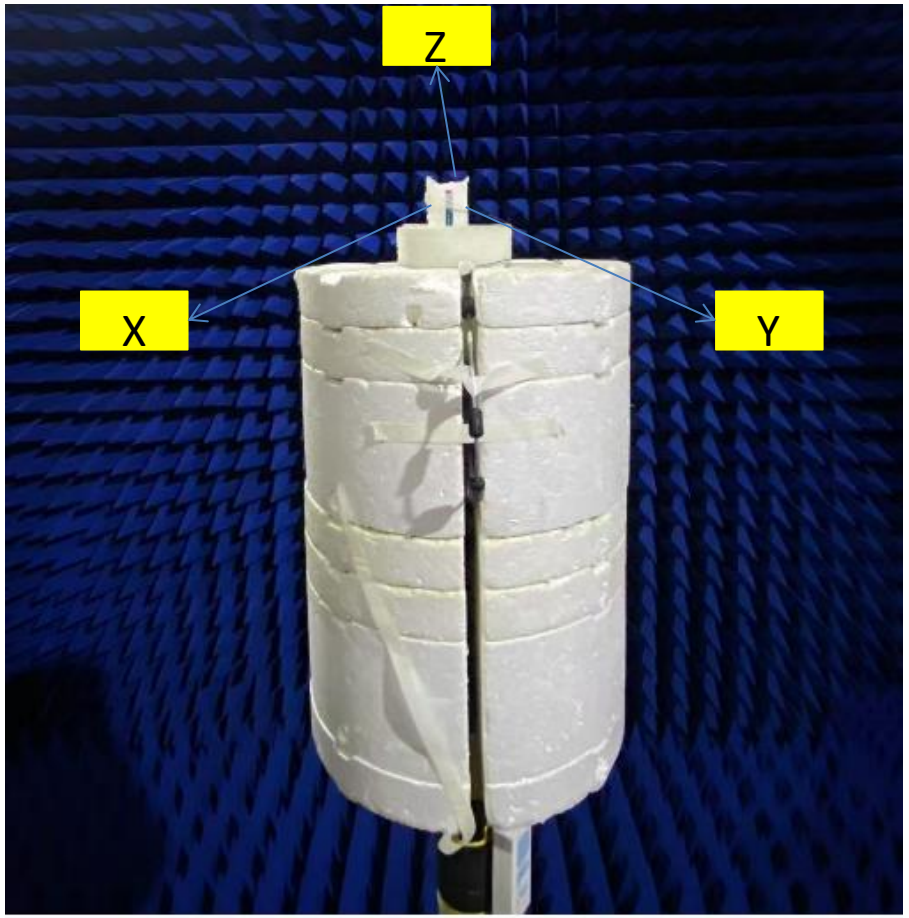
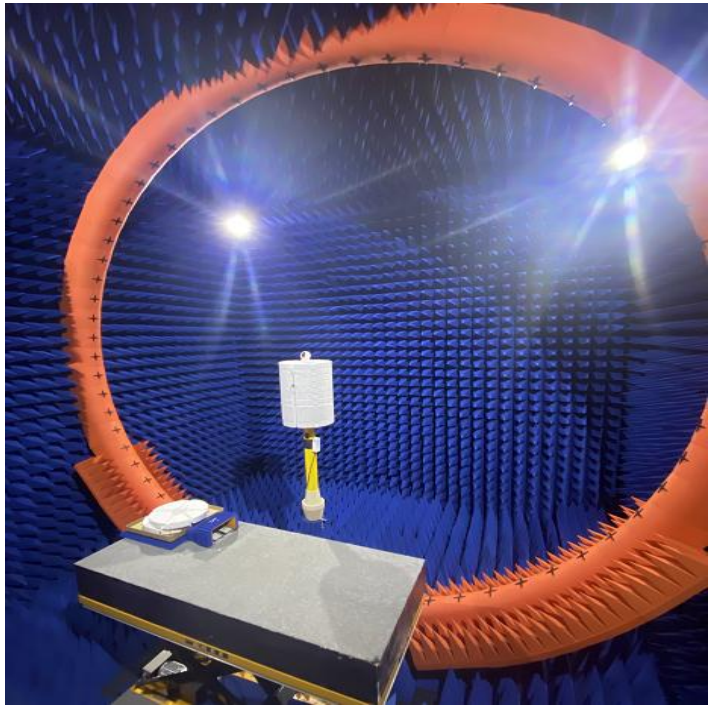
Antenna Study

- **Client Name:Shenzhen Champion New Media Technology Co., Ltd.**
- **Project Name：天线**
- **Model: YS-F3588**
- **Debugging frequency band: 2400/2500/5150/5850HMz**
- **Valuation date：2025.01.20**

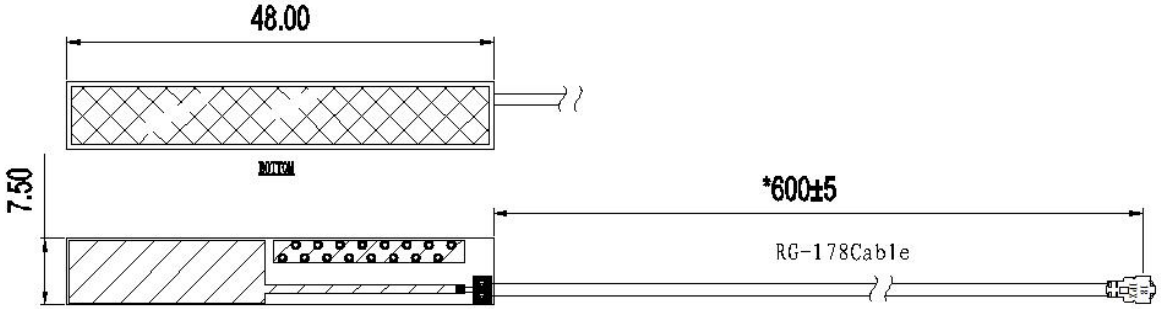


Testing environment



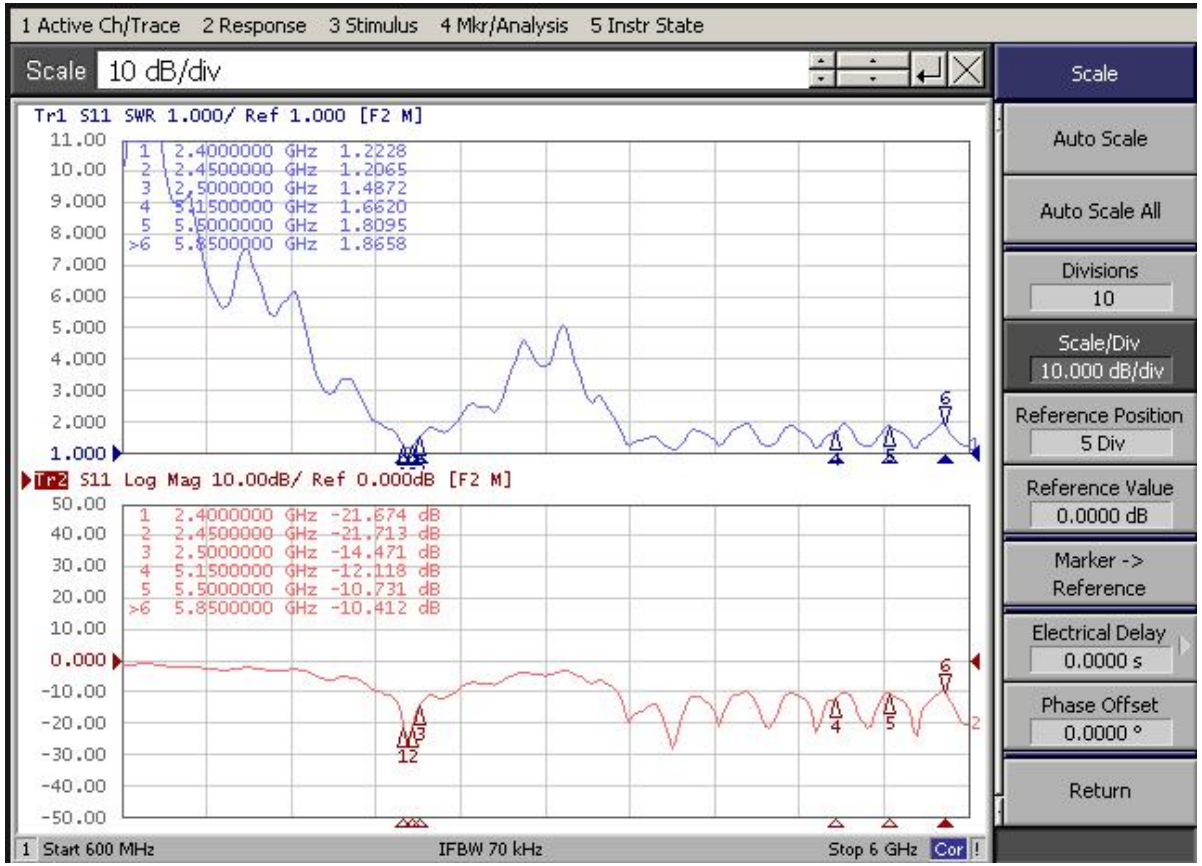
Testing 3D microwave darkroom(6m*6m*6m)

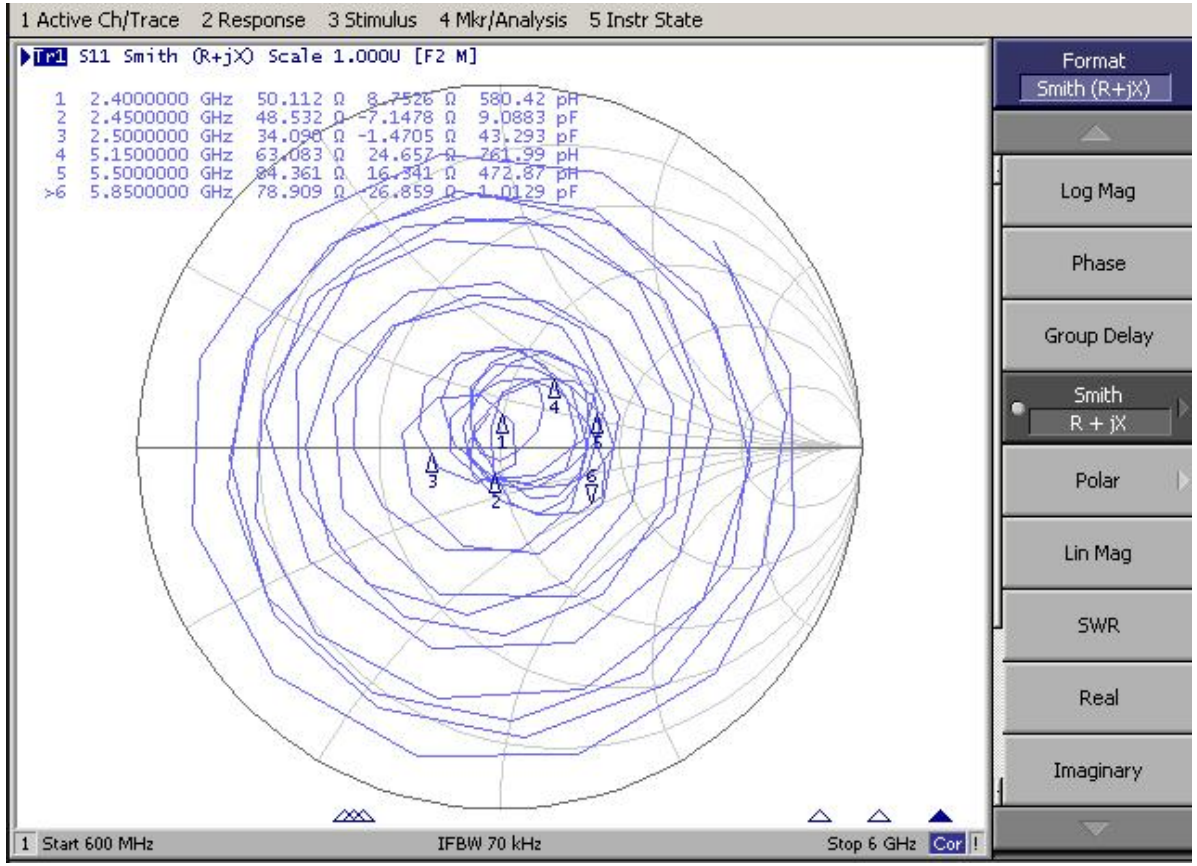
- Antenna name: 2.4G+5.8G
- Covers： 2400/2500/5150/5850MHz



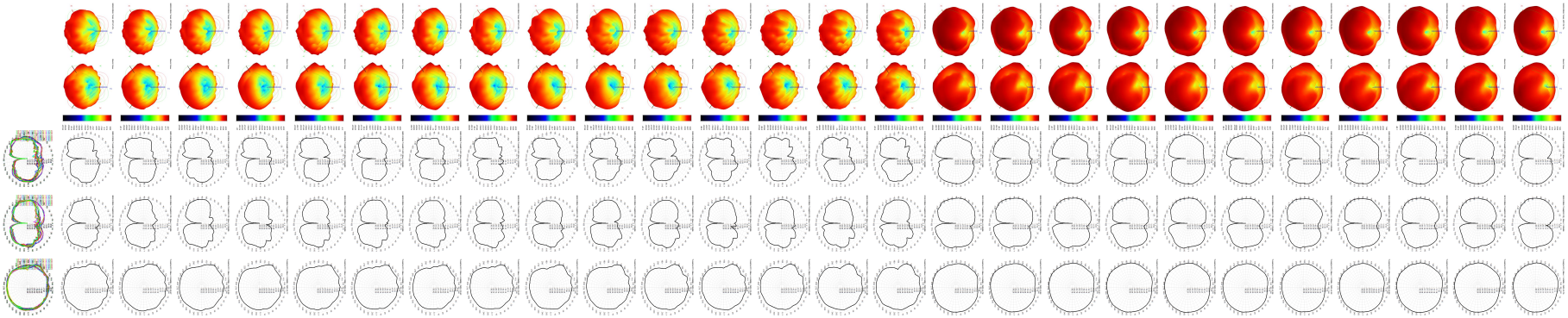
Antenna

S Parameter_Return Loss&VSWR-Smith





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)	1.93	1.57	1.22	1.46	1.94	2.01	2.06	2.09	1.77	1.49	1.35
Efficiency (%)	78.72	74.05	68.03	68.11	72.36	75.79	81.34	81.42	74.91	67.50	65.56

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
3.51	3.42	3.67	4.42	3.92	3.94	4.04	4.33	4.58	4.05	4.30	4.32	4.22	4.01	3.99
58.77	58.14	60.25	68.66	60.20	60.20	60.04	61.92	64.55	61.19	64.96	63.13	63.34	60.04	57.50