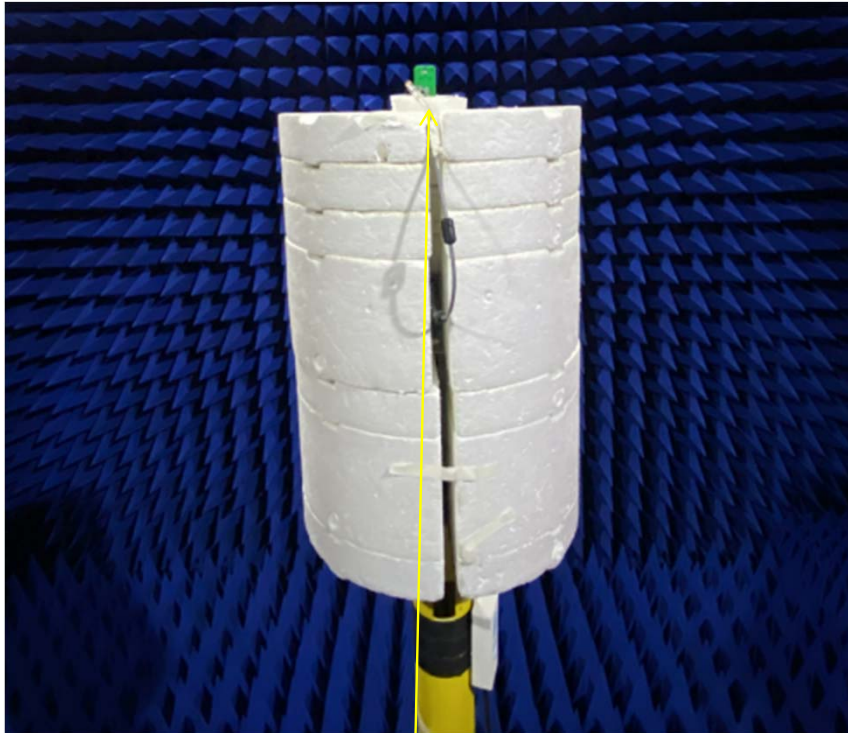


Antenna Study

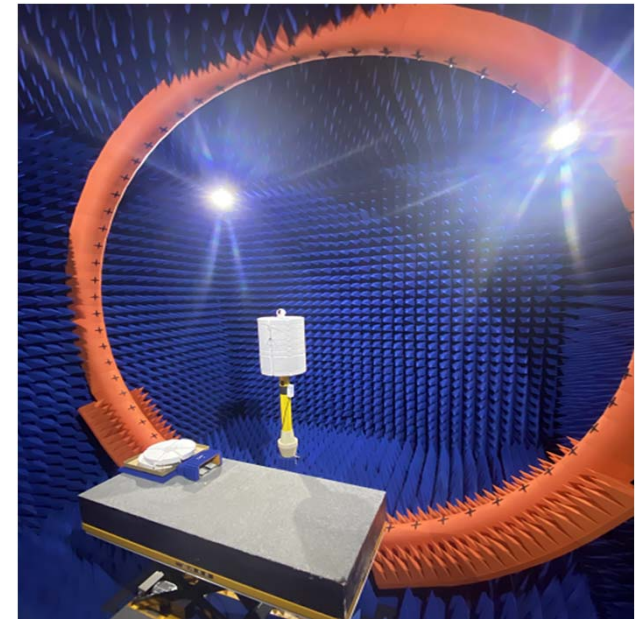
- **Client Name: Shenzhen Flamingo Technology Co., Ltd**
- **Project Name : Pet collar with led light**
- **Debugging frequency band: 433HMz**
- **Valuation date: 2024.03.25**

PCB Antenna

Dongguan UB Electronics Co., Ltd



Testing environment

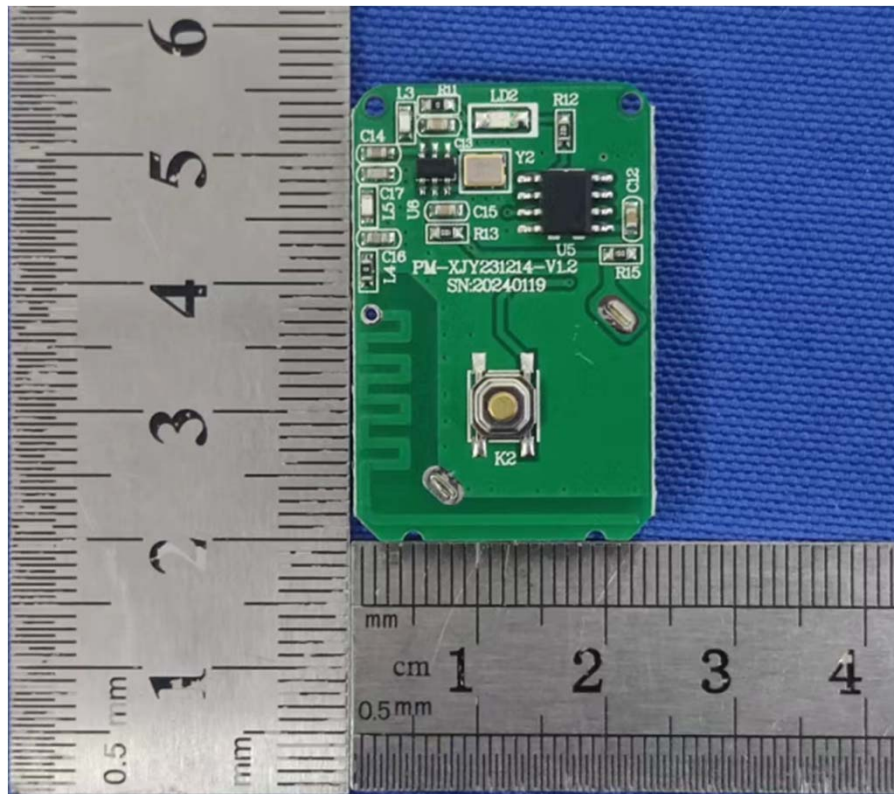


Testing 3D microwave darkroom(6m*6m*6m)

PCB Antenna

Dongguan UB Electronics Co., Ltd

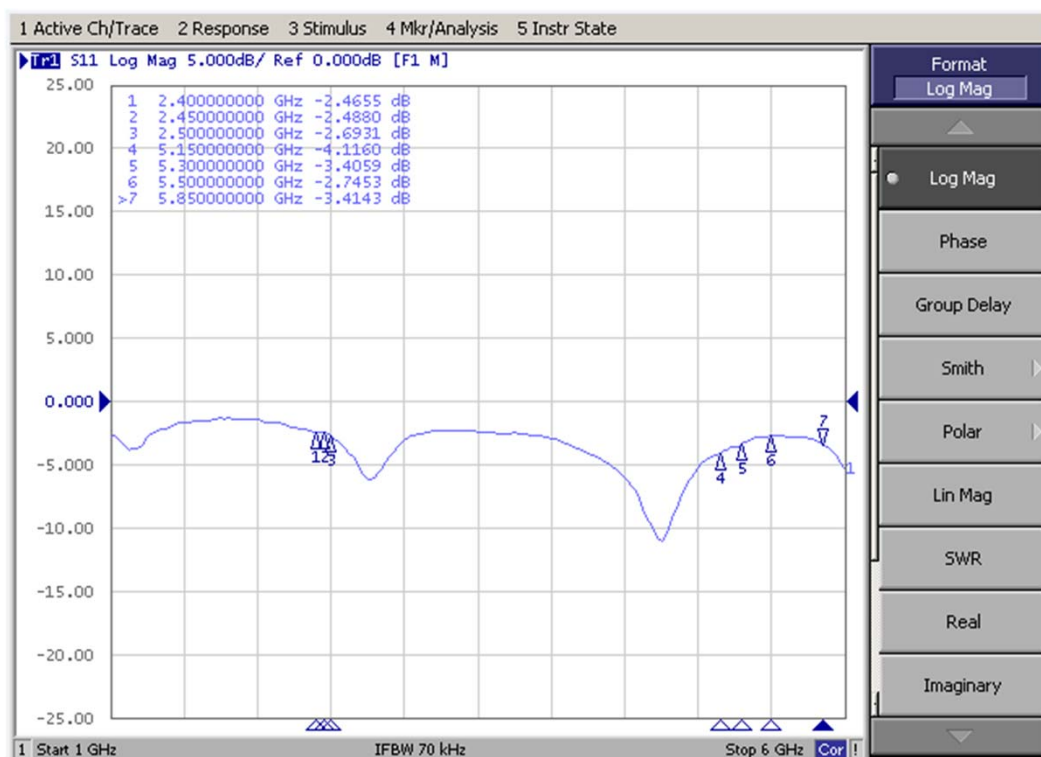
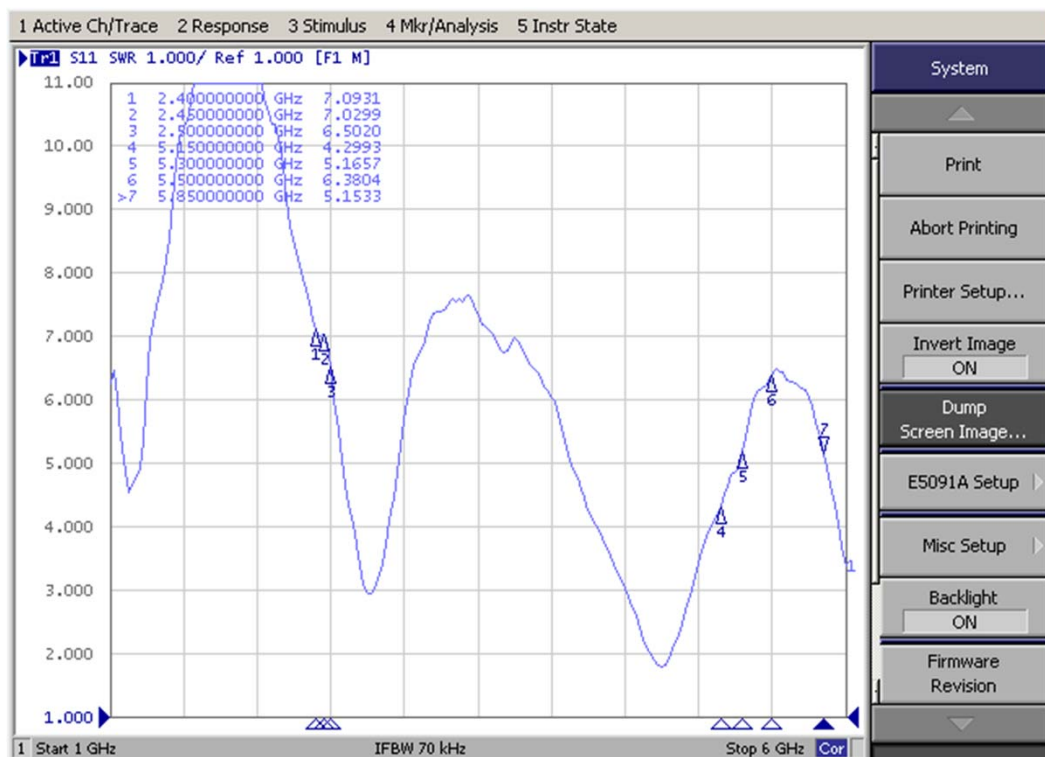
- Antenna name: 433HMz
- Antenna Type: PCB
- Covers : 433MHz



Antenna

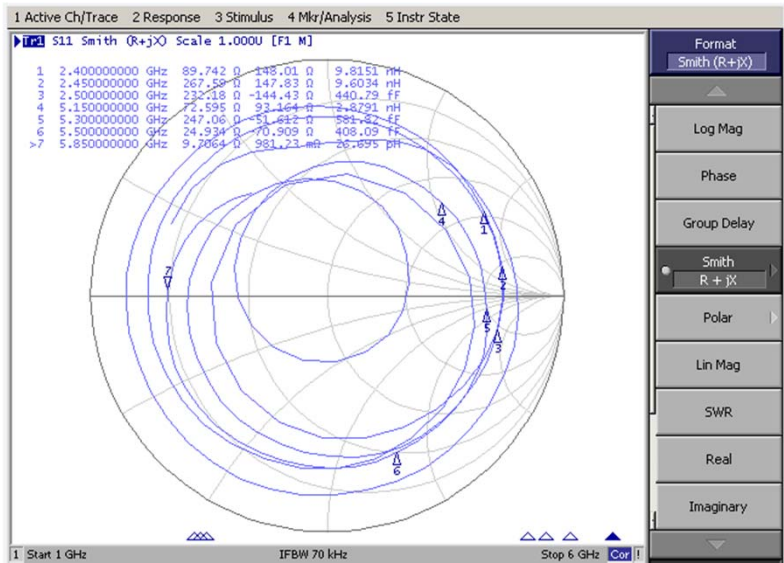
S Parameter_Return Loss&VSWR

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Efficiency and Gain-Smith

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Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	430.0	431.0	432.0	433.0	434.0	435.0	436.0	437.0	438.0	439.0	440.0
Gain (dBi)	-4.71	-4.47	-4.25	-4.01	-3.77	-3.54	-3.50	-3.45	-3.40	-3.36	-3.34
Efficiency (%)	8.51	8.82	9.14	9.46	9.78	10.16	10.35	10.59	10.84	11.09	11.30

