



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

广东省东莞市塘厦镇林村新发路9号2栋101室

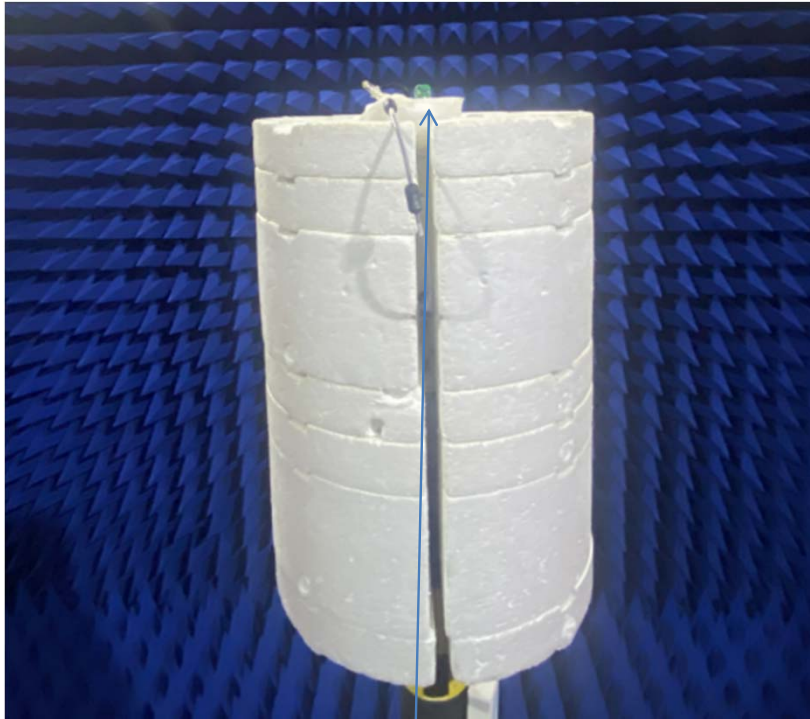
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan, Guangdong, China

Antenna Study

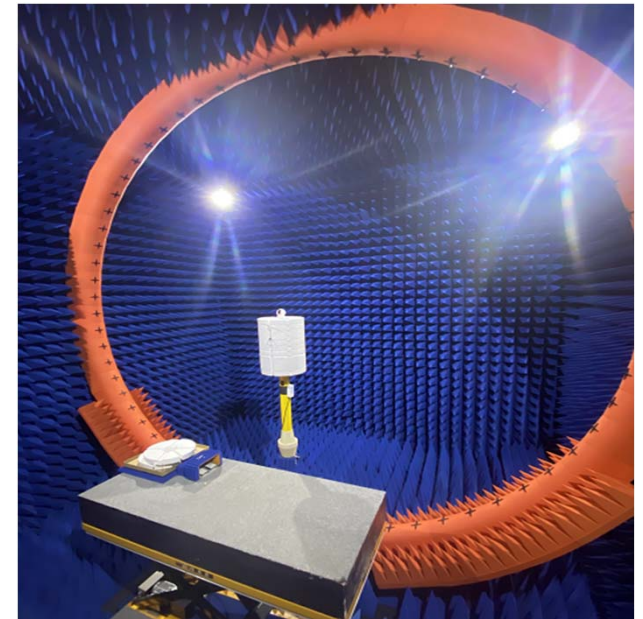
- **Client Name: Shanghai Representative Office of wheel group**
- **Project Name : sensor**
- **Debugging frequency band: 315/ 433MHz**
- **Valuation date: 2023.12.19**

Internal Antenna

Dongguan UB Electronics Co., Ltd



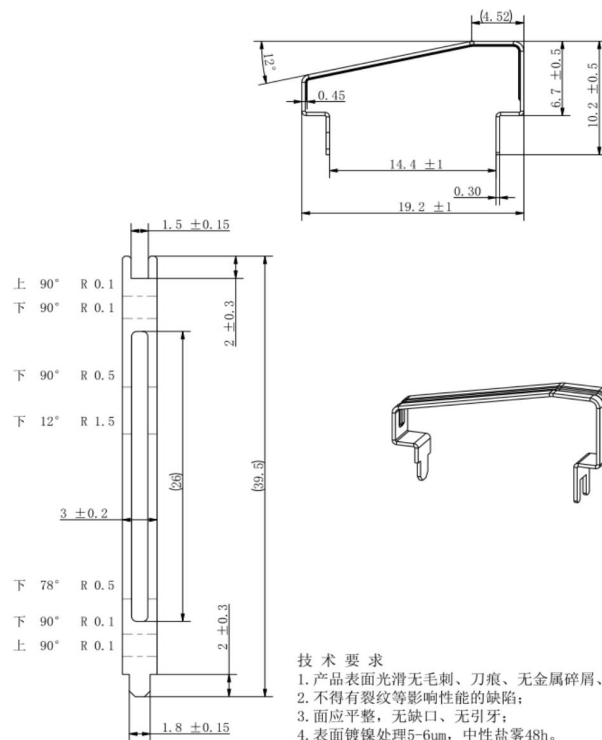
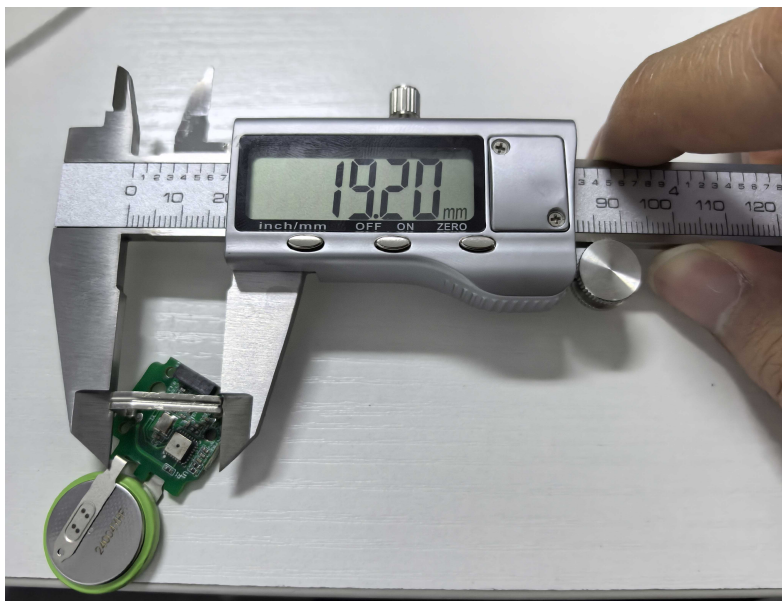
Testing environment



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

Internal Antenna

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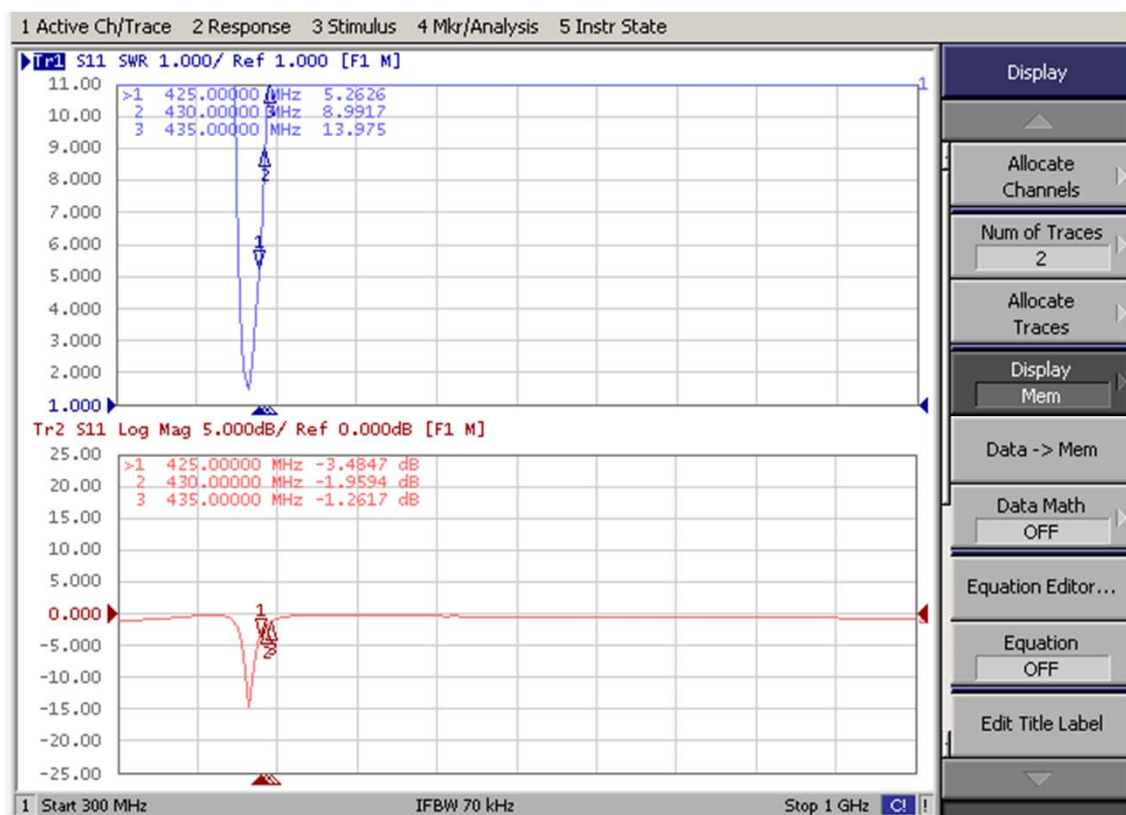


- Antenna name: 433MHz
- Antenna Type: Internal

Antenna

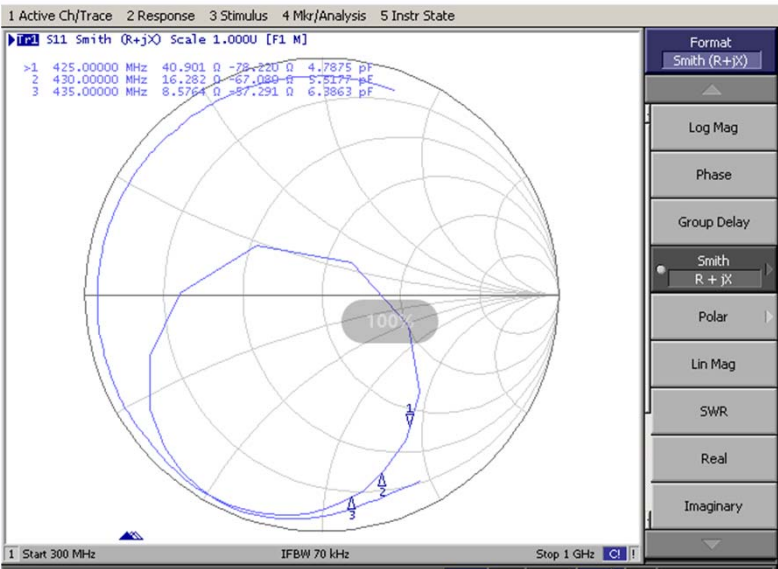
S Parameter_Return Loss&VSWR

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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)	425	426	427	428	429	430	431	432	433	434	435
Gain (dBi)	-13.83	-14.16	-14.54	-14.97	-15.42	-15.87	-16.37	-16.88	-17.37	-17.82	-18.31
Efficiency (%)	1.20	1.06	0.95	0.84	0.74	0.66	0.58	0.51	0.46	0.41	0.37

