



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

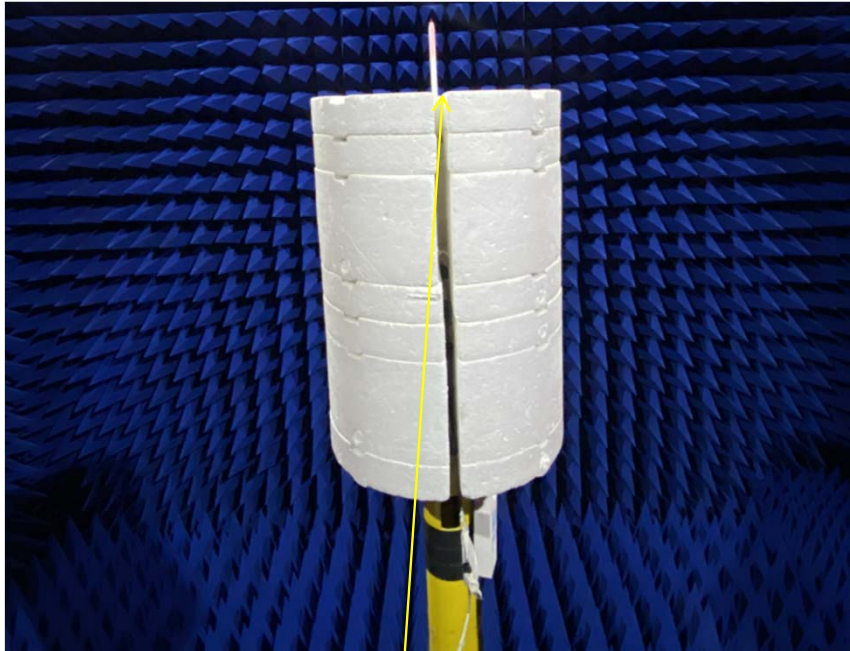
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan City, Guangdong Province, China

Antenna Study

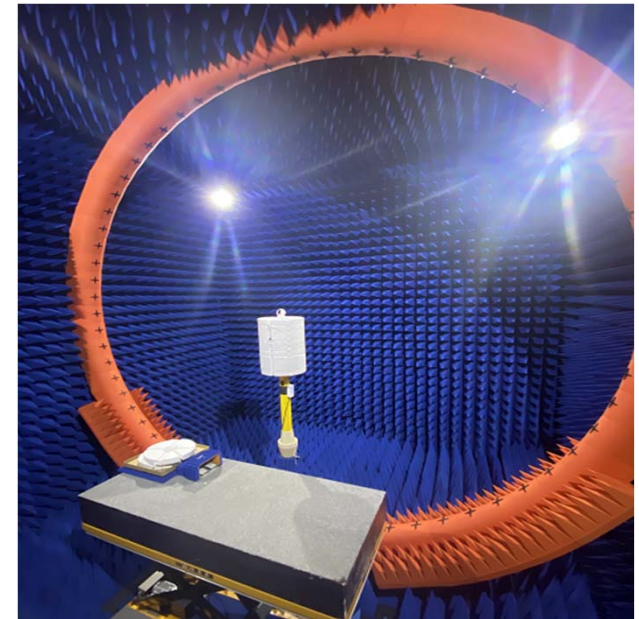
- **Client Name: Zaidtek Electronic Technology (Xiamen) Co., Ltd.**
- **Project Name: Palm Rejection, Magnetic charging**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2024.04.25**

PCB Antenna

Dongguan UB Electronics Co., Ltd



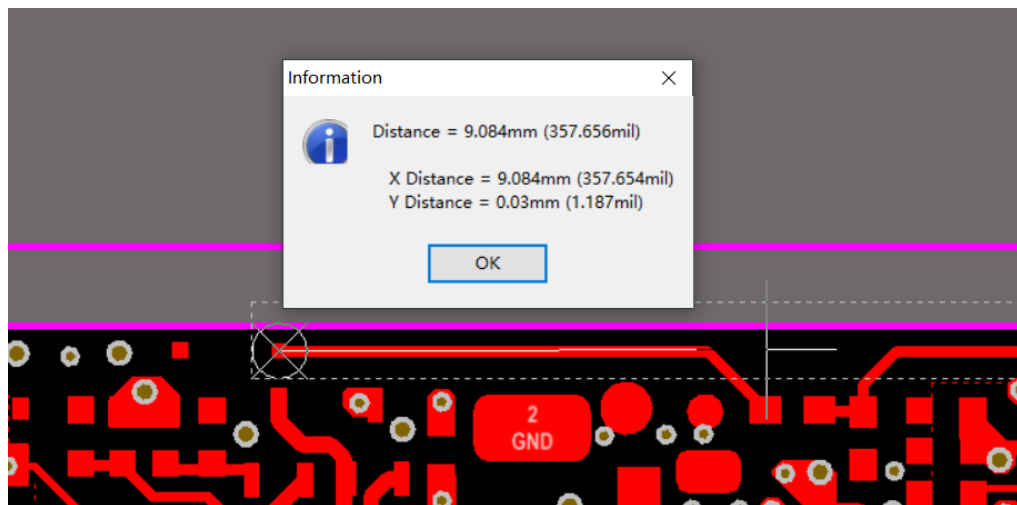
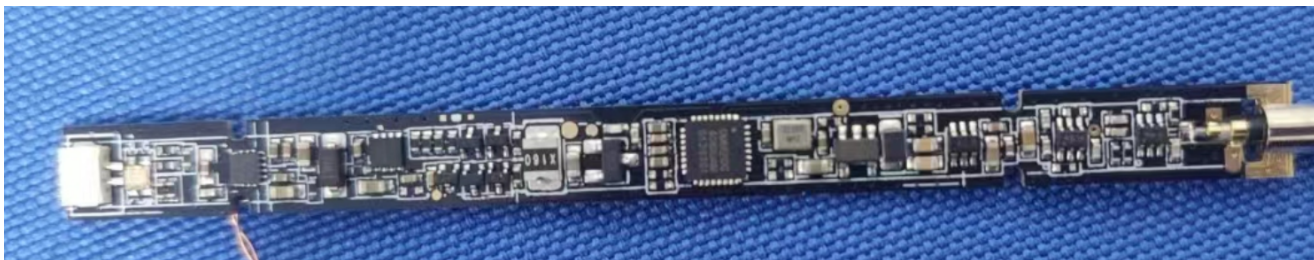
Testing environment



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

PCB Antenna

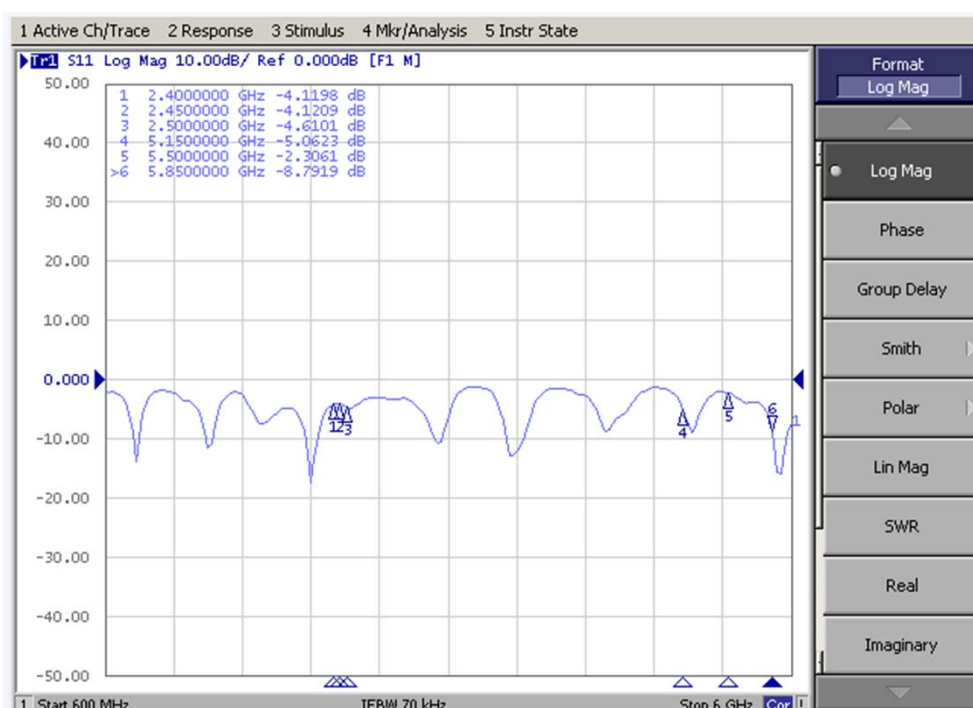
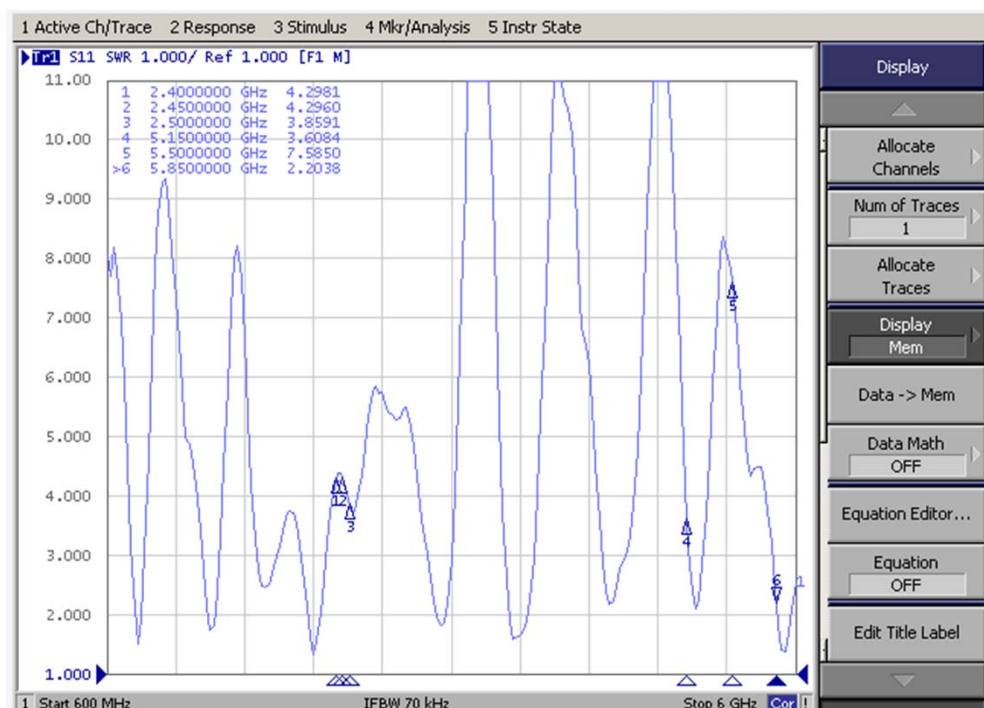
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- Antenna name: 2.4G
- Antenna Type: PCB Antenna
- Covers: 2400-2500MHz
- Maximum Gain: 0dBi

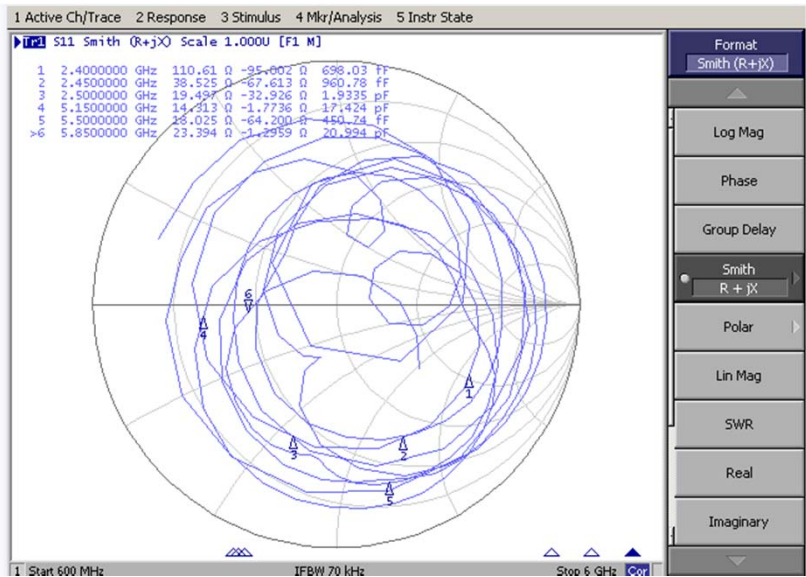
S Parameter_Return Loss&VSWR

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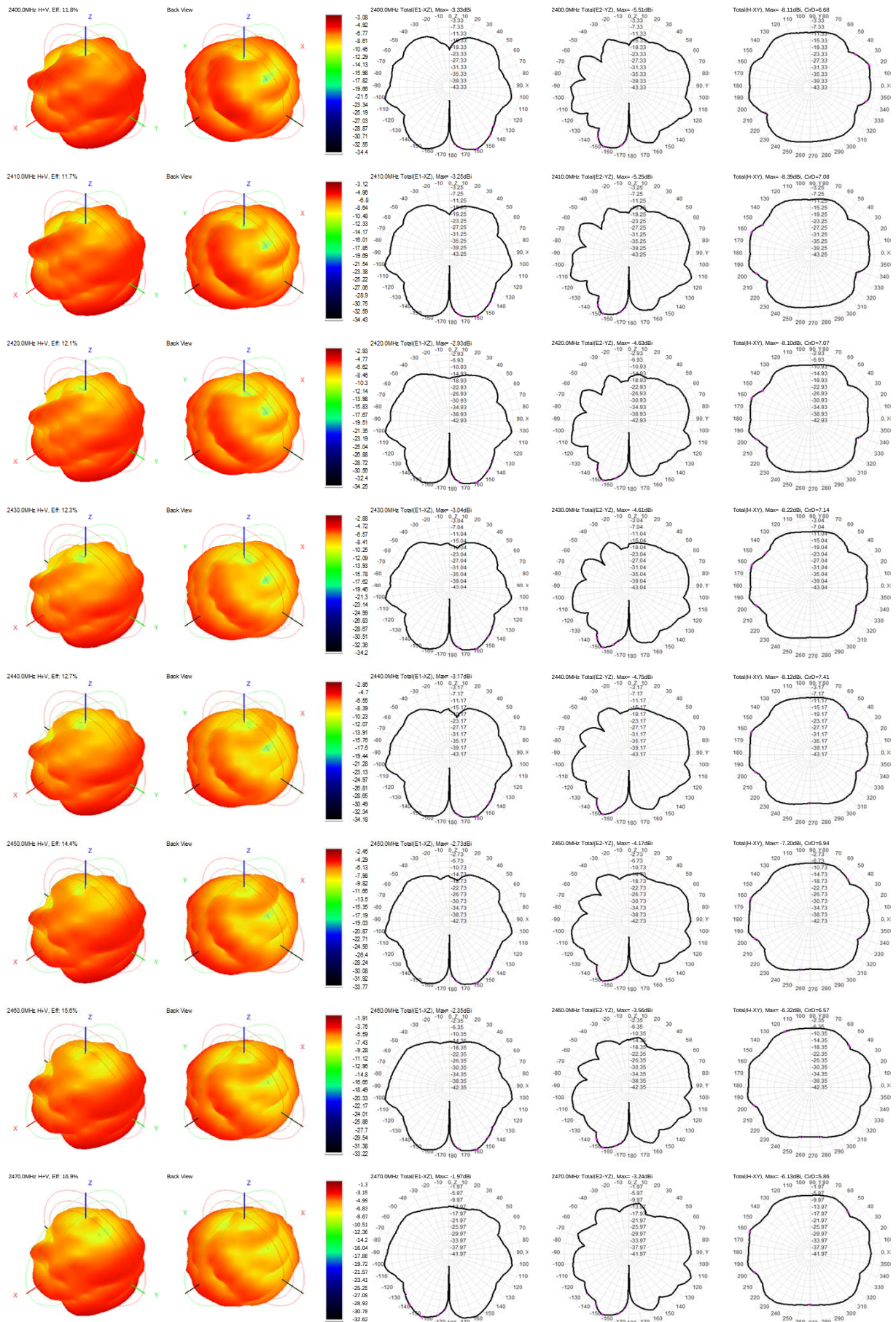


Efficiency and Gain-Smith

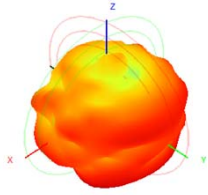
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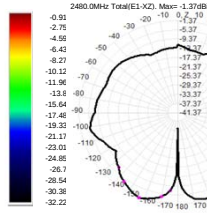
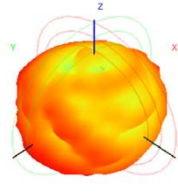
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-3.08	-3.12	-2.93	-2.88	-2.86	-2.45	-1.91	-1.30	-0.91	-1.18	-0.69
Efficiency (%)	11.80	11.69	12.13	12.27	12.75	14.38	15.56	16.86	18.20	18.40	20.30



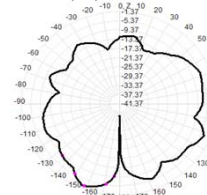
2480.0MHz H+V, ER: 18.2%



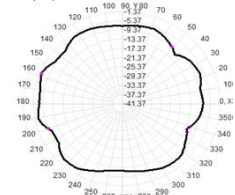
Back View



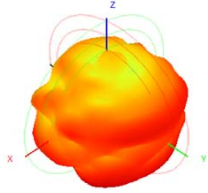
2480.0MHz Total(E2-YZ), Max=-2.93dBi



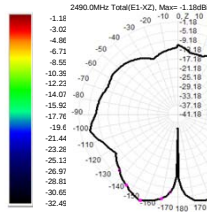
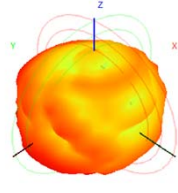
Total(H+V), Max=-6.33dBi, CRD=6.68



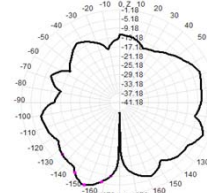
2490.0MHz H+V, ER: 18.4%



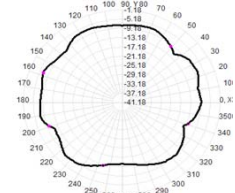
Back View



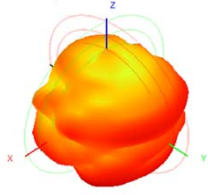
2490.0MHz Total(E2-YZ), Max=-2.67dBi



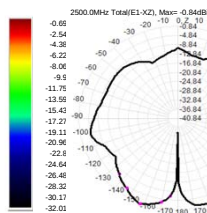
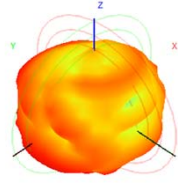
Total(H+V), Max=-6.76dBi, CRD=7.89



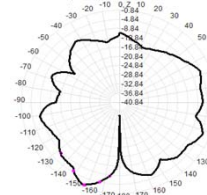
2500.0MHz H+V, ER: 20.3%



Back View



2500.0MHz Total(E2-YZ), Max=-2.26dBi



Total(H+V), Max=-6.03dBi, CRD=9.02

