



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

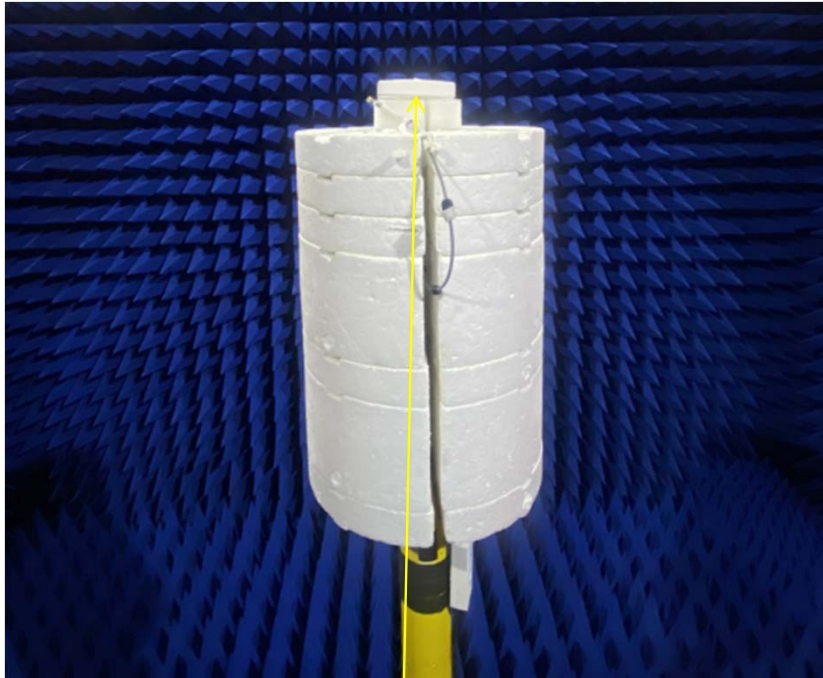
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town,
Dongguan City, Guangdong, China

Antenna Study

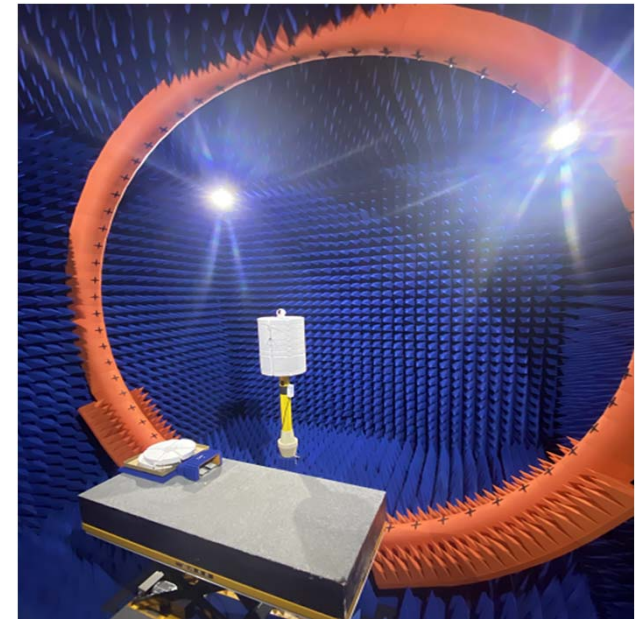
- **Client Name: BOSS INTERNATIONAL GROUP**
- **Project Name: car stereo**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2024.05.31**

Internal Antenna

Dongguan UB Electronics Co., Ltd



Testing environment

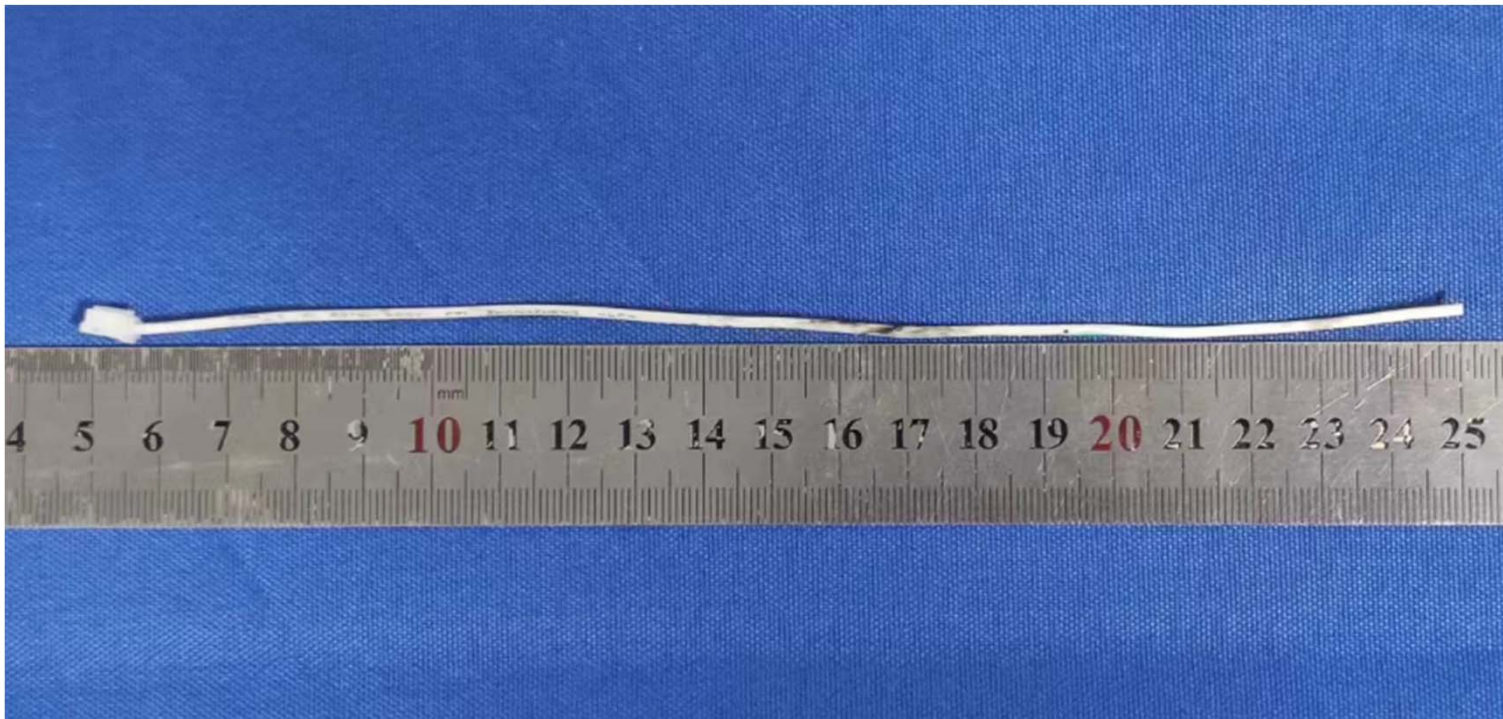


Testing 3D microwave darkroom(6m*6m*6m)

Internal Antenna

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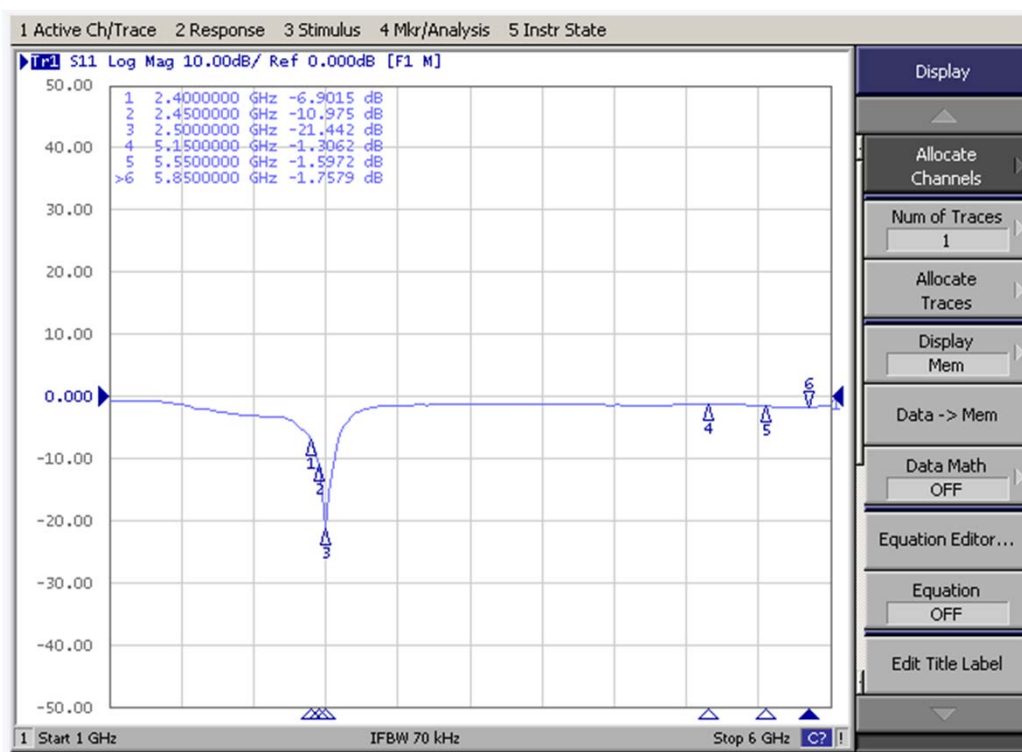
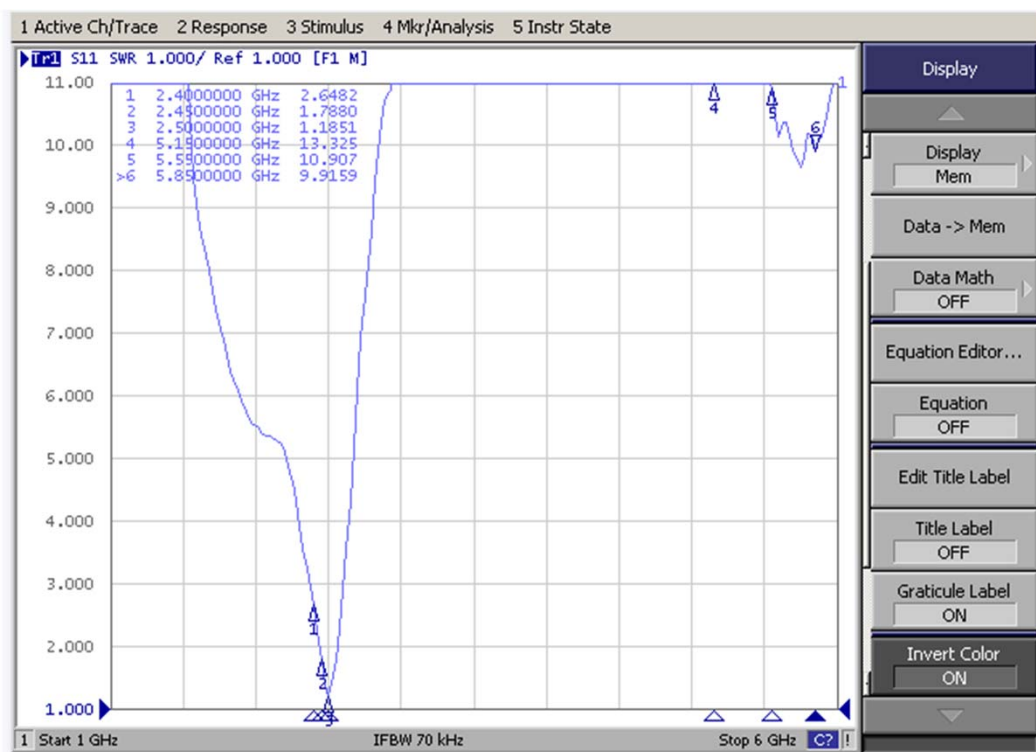
- Antenna name: 2.4G
- Antenna Type: Internal
- Covers : 2400-2500MHz



Antenna

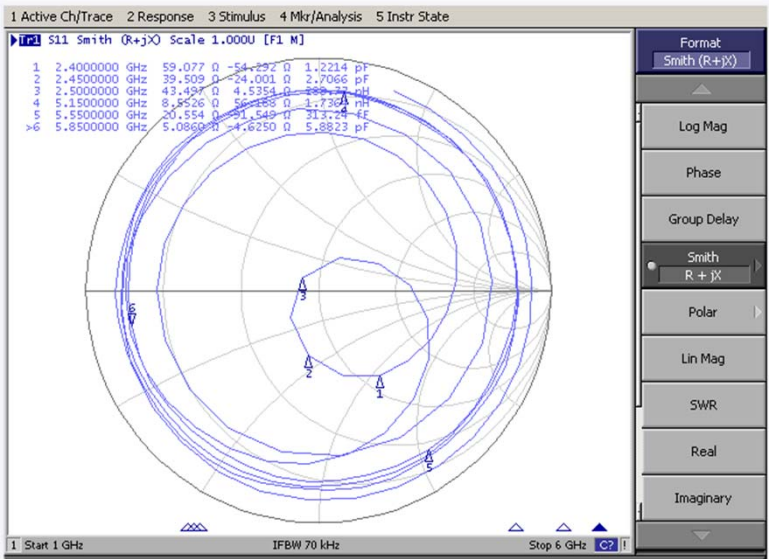
S Parameter_Return Loss&VSWR

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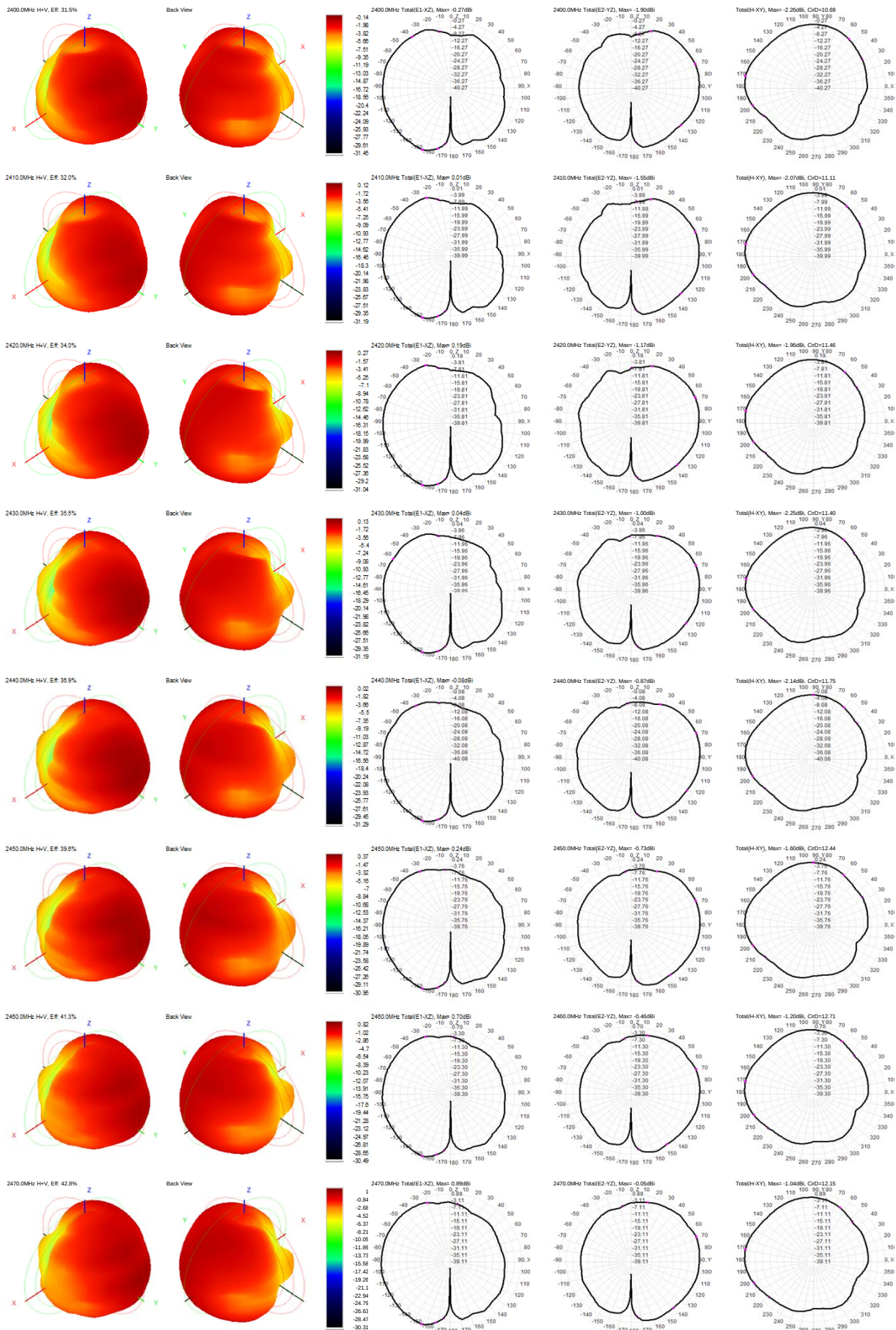


Efficiency and Gain-Smith

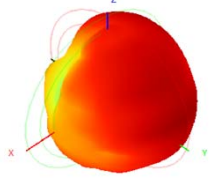
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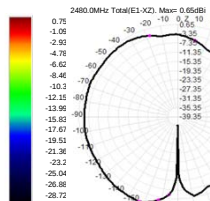
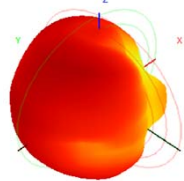
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-0.14	0.12	0.27	0.13	0.02	0.37	0.82	1.00	0.75	0.50	0.27
Efficiency (%)	31.48	31.95	33.95	35.46	36.95	39.59	41.25	42.77	42.35	41.43	40.57



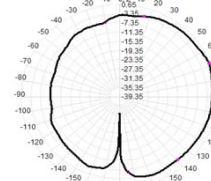
2480.0MHz H+V, ER: 42.4%



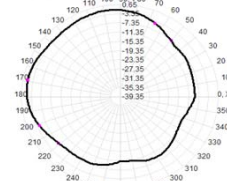
Back View



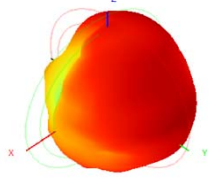
2480.0MHz Total(E2-YZ), Max: -0.14dB



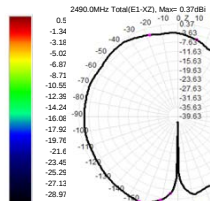
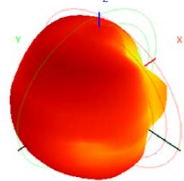
Total(H+V), Max: -1.32dB, Crd=11.26



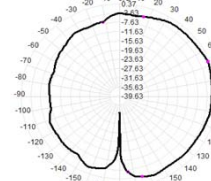
2490.0MHz H+V, ER: 41.4%



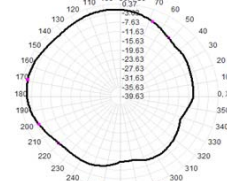
Back View



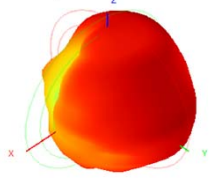
2490.0MHz Total(E2-YZ), Max: -0.69dB



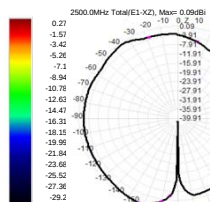
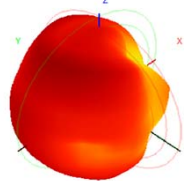
Total(H+V), Max: -1.57dB, Crd=11.76



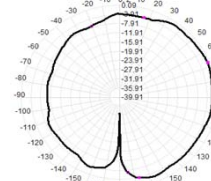
2500.0MHz H+V, ER: 40.6%



Back View



2500.0MHz Total(E2-YZ), Max: -1.00dB



Total(H+V), Max: -1.62dB, Crd=13.29

