



Xin Xin Lighting Antenna Test Report

frequency modulation : 2400MHZ-2500MHZ

Topocom —The test report

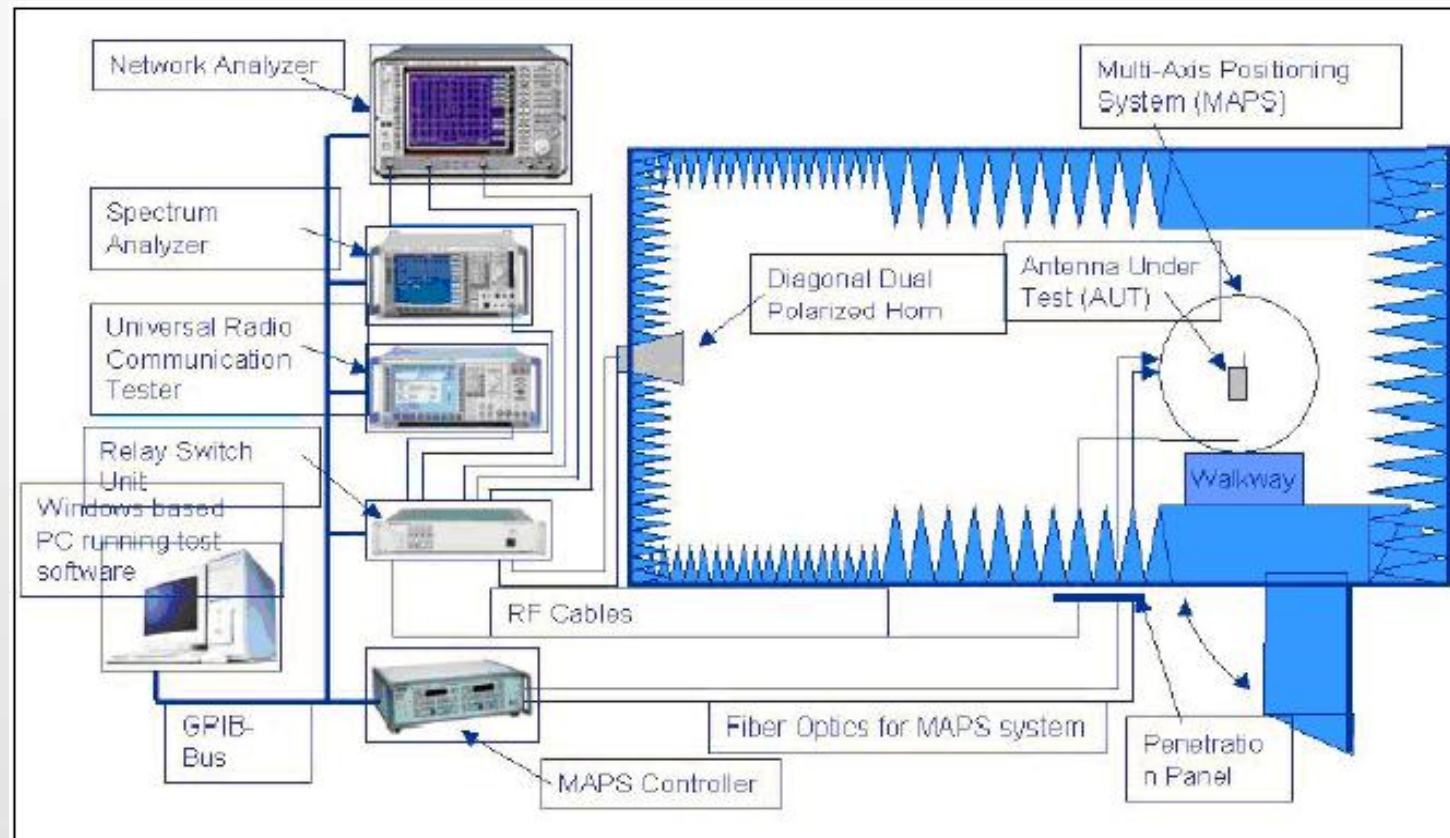
www.topolink.com.cn

Address: 403, Jinfulai Complex Building, No. 49-1, Dabao Road, Dalang Community, Xin 'an Street, Bao 'an District, Shenzhen

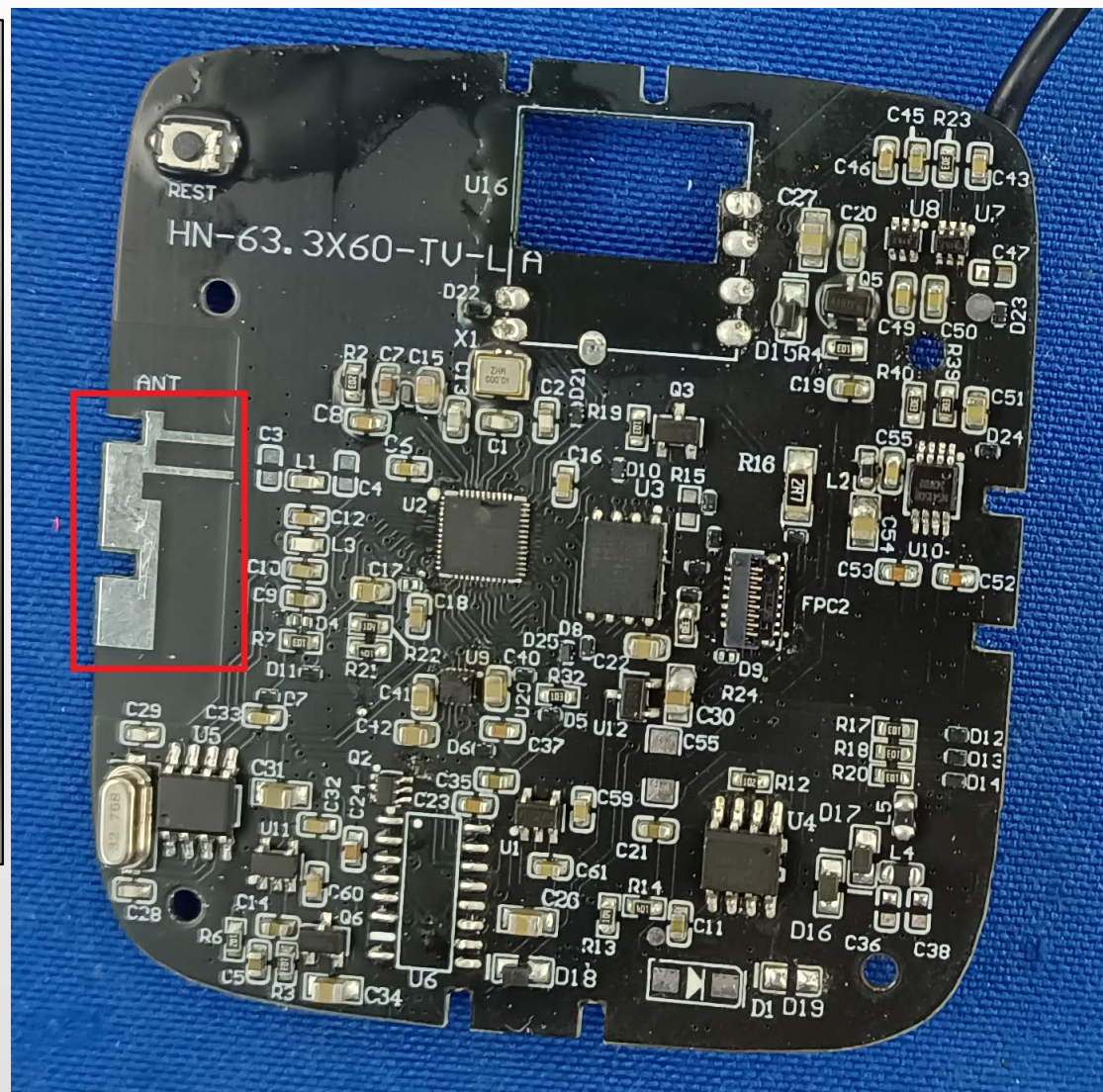
2024-10-23

1、 Test environment: CTIA 743 darkroom, 8960/5515C, with the phone placed facing away from the standard

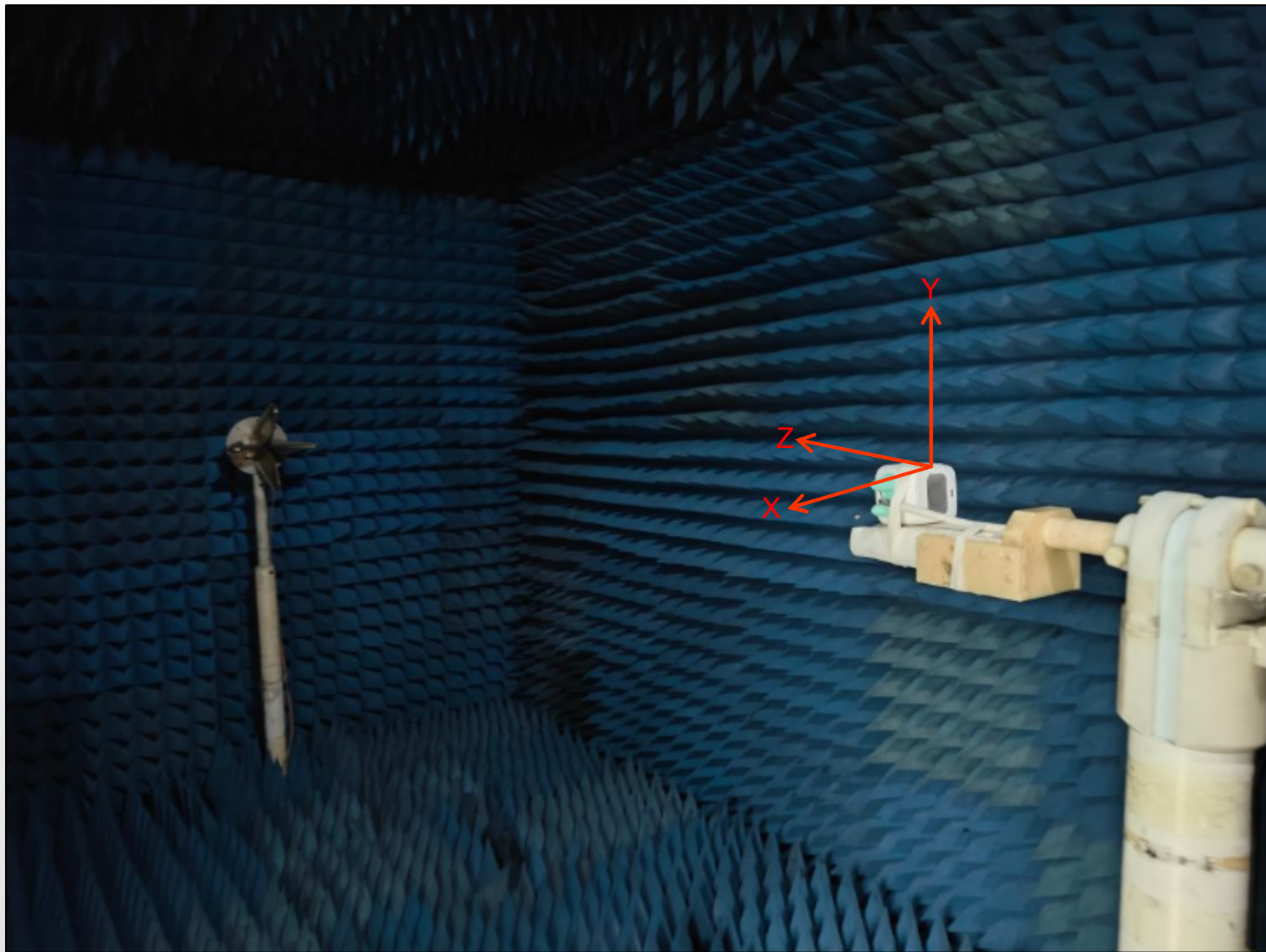
At the 4-meter turntable of the horn antenna



2、 Machine and antenna images:

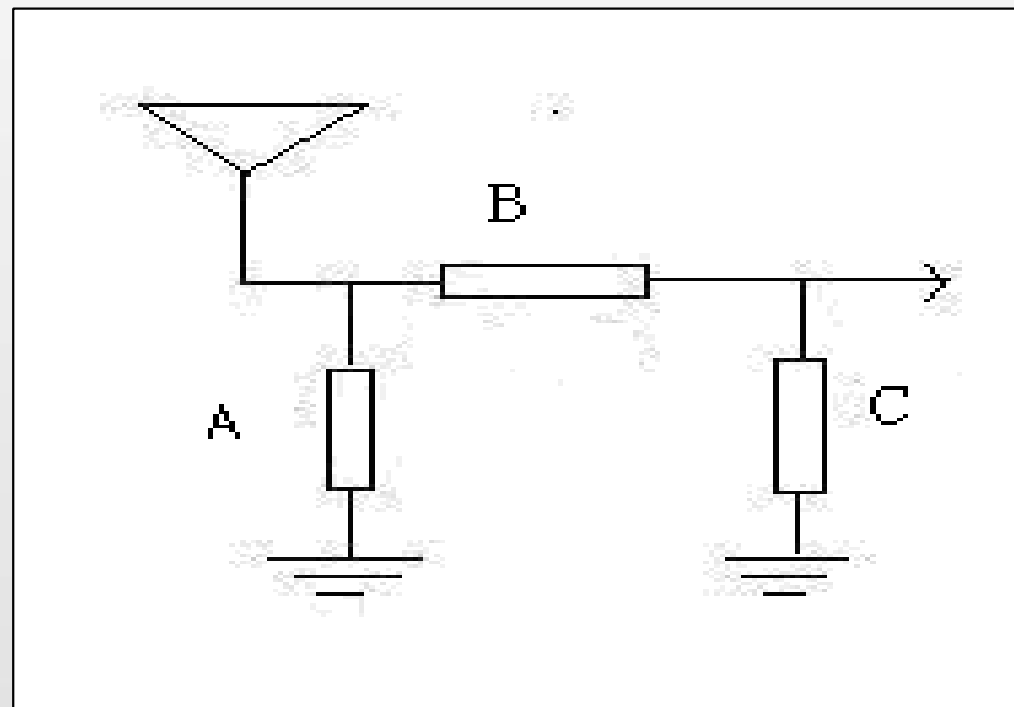


3、 Antenna test coordinate image:

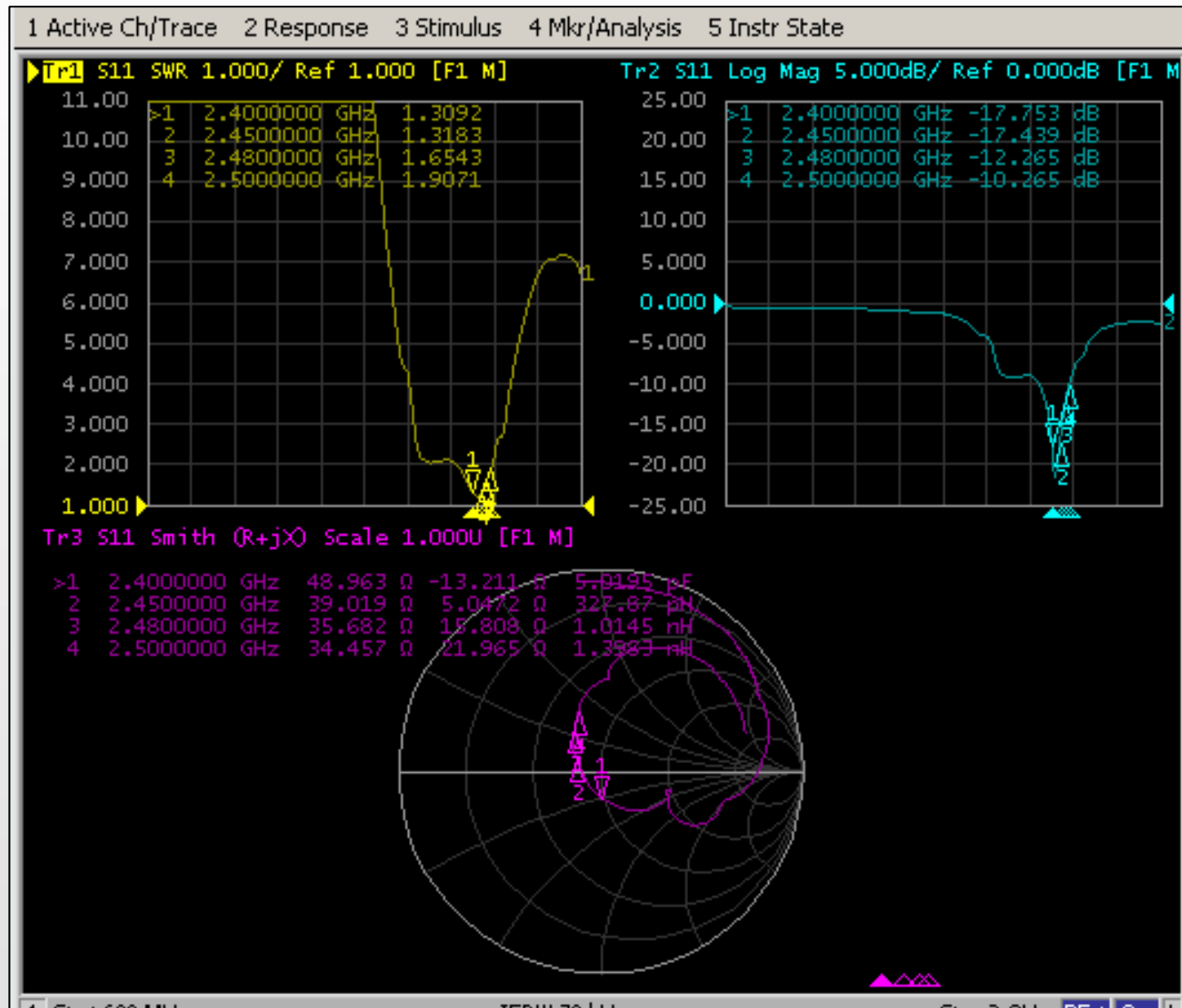


4、 Antenna ANT0 matching circuit.

Matching circuit remains unchanged



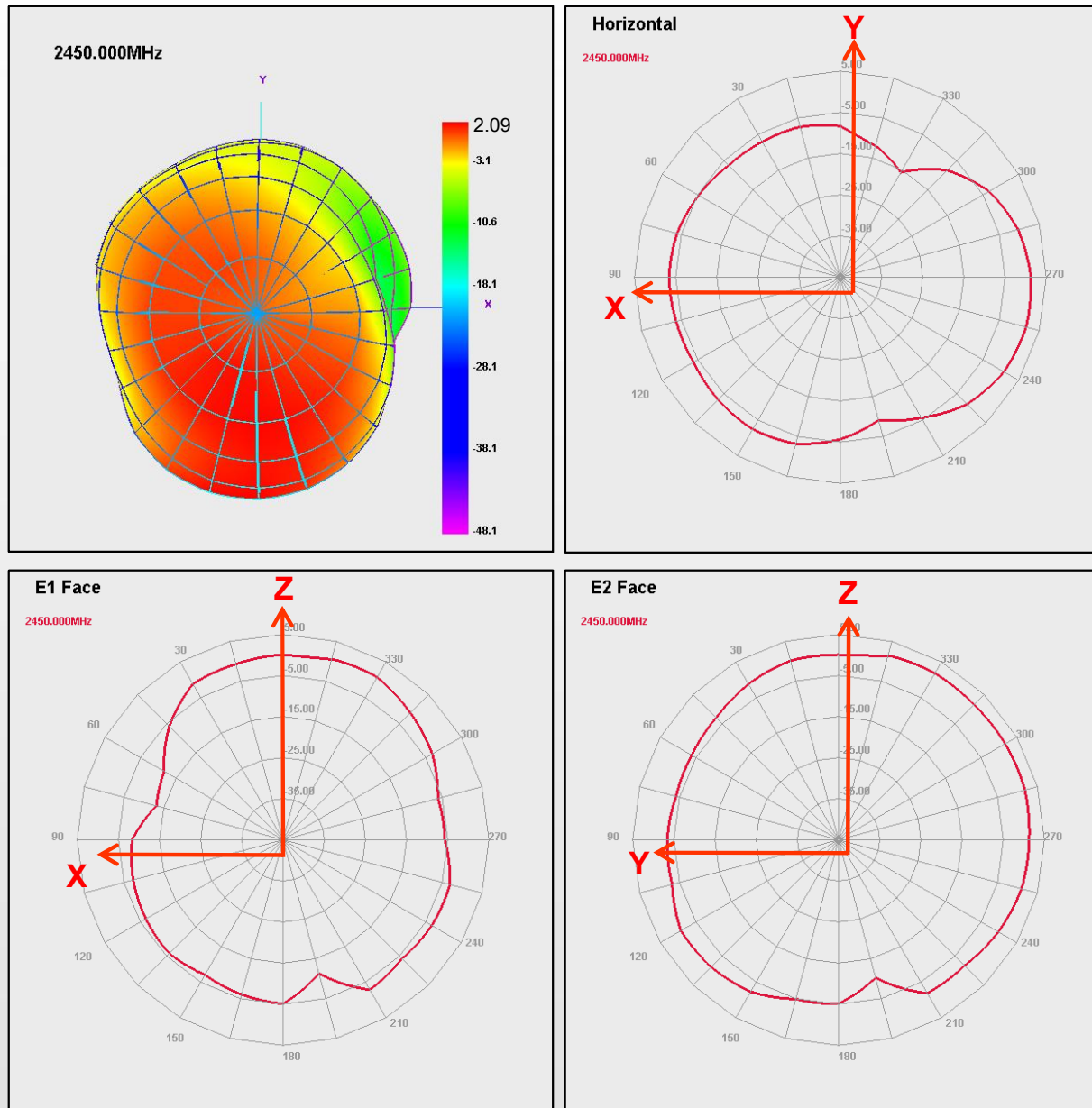
5、 Antenna ANT0 S11, ReturnLoss, Smith Chart:



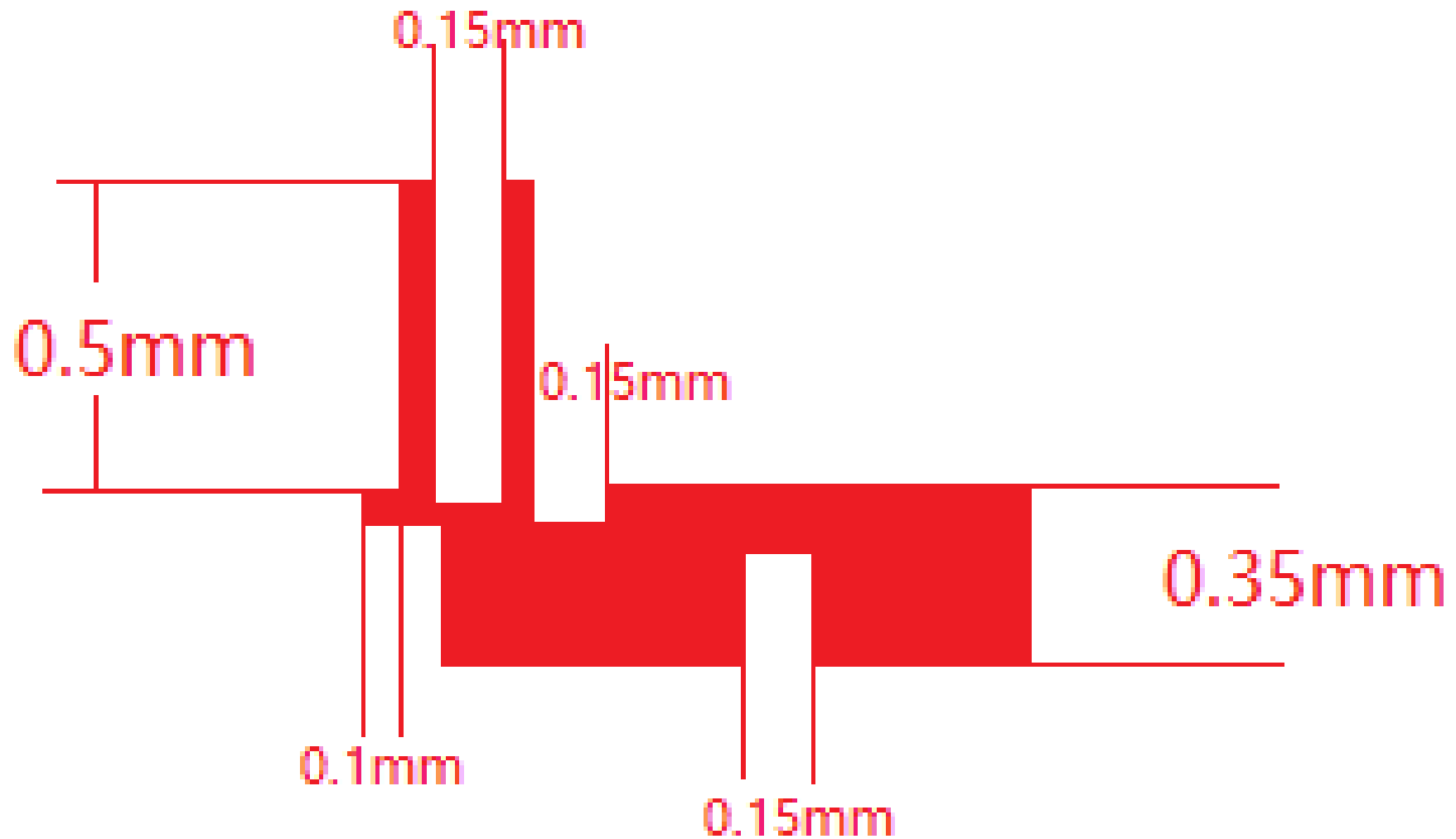
6、 Antenna efficiency gain:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	53.66	1.49
2405	54.86	1.63
2410	54.75	1.64
2415	55.5	1.85
2420	56	1.93
2425	57.18	1.95
2430	57.67	1.98
2435	57.84	2.07
2440	57.49	2.09
2445	57.57	2.07
2450	55.03	1.87
2455	54.13	1.82
2460	54.45	1.89
2465	53.19	1.75
2470	51.02	1.54
2475	51.2	1.56
2480	51.17	1.61
2485	50.71	1.6
2490	51.15	1.61
2495	50.56	1.58
2500	49.67	1.52

7、 Antenna ANT0 directional diagram:



Antenna size:



Explanation:

1. Please confirm whether the matching and environmental treatment methods in the report are recognized by your company; This will directly affect the antenna performance. If you have any different opinions, please contact our company in a timely manner;
2. If your company replaces materials, components, updates software, changes environmental handling, etc., please provide the latest status machine to our company for performance verification in a timely manner;
3. If your company's machine needs to be sent for third-party performance verification, it is best to provide a testing machine to our company for testing and verification before sending it for testing; (Because consistency in motherboard, environmental treatment, antenna assembly, etc. can affect antenna performance deviations)