

Shimu

Large machine 2.4G passive debugging report

FM: 2400MHZ-2500MHZ

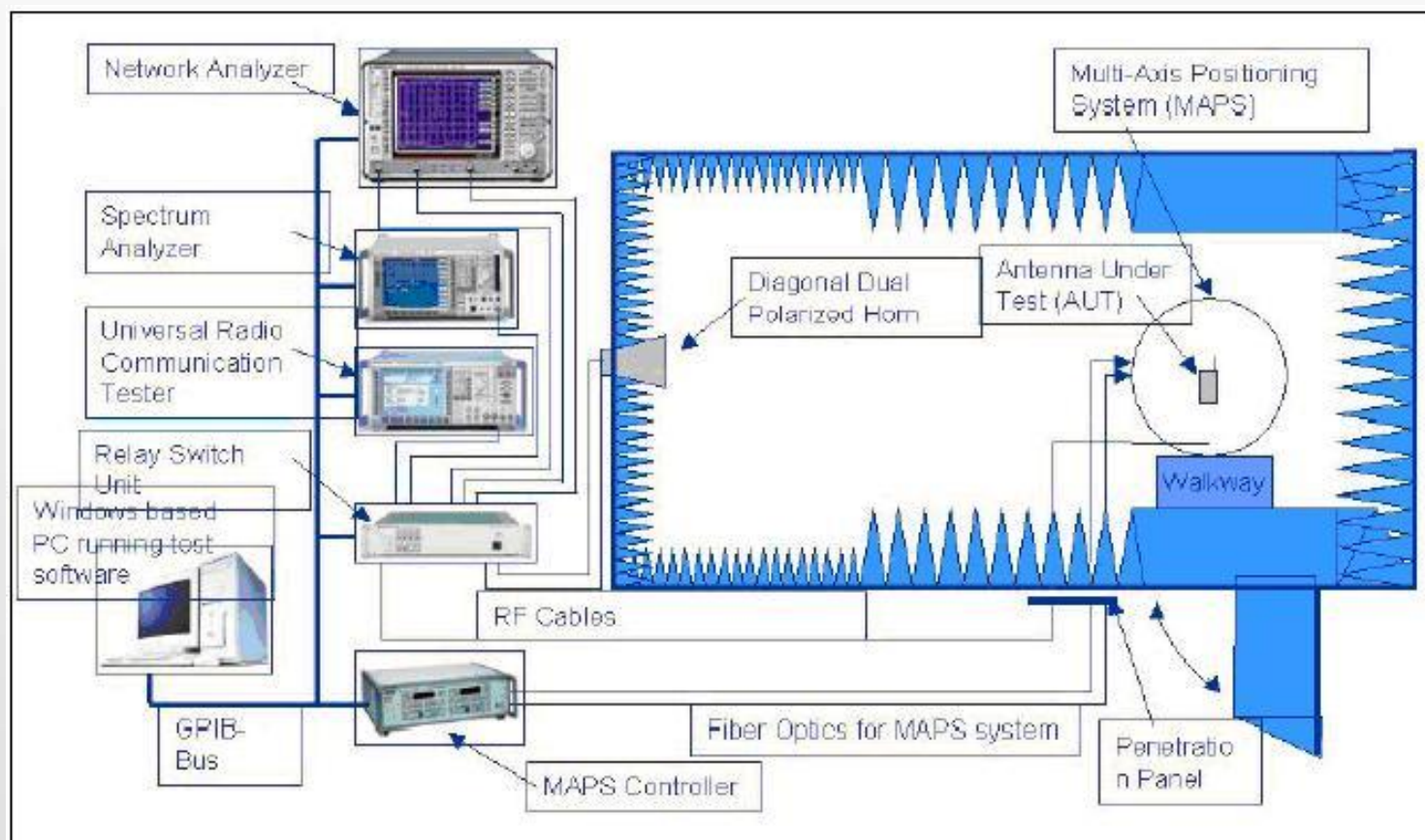
Topocom —The test report

Antenna Model: DCKZB-V1.0

www.topolink.com.cn

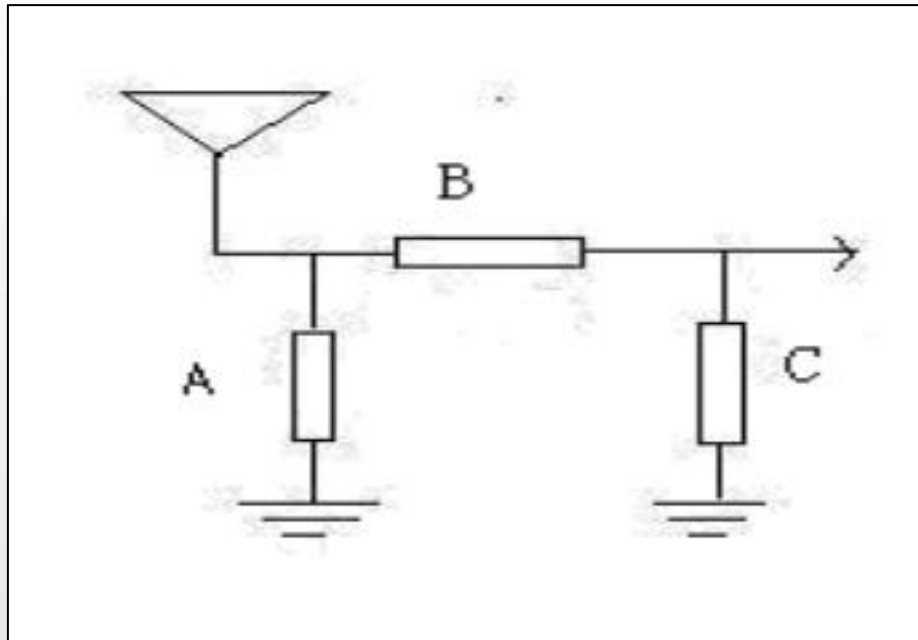
2026-08-12

1. **Test environment: CTIA 743 anechoic chamber, 8960/5515C, with the mobile phone placed facing away from the standard At the 4-meter turntable of the horn antenna**



2、 Matching circuit

The matching circuit remains unchanged.



3、 machine image :



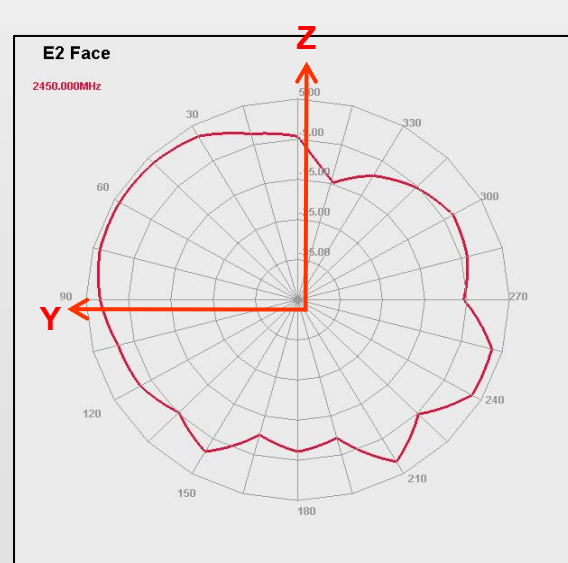
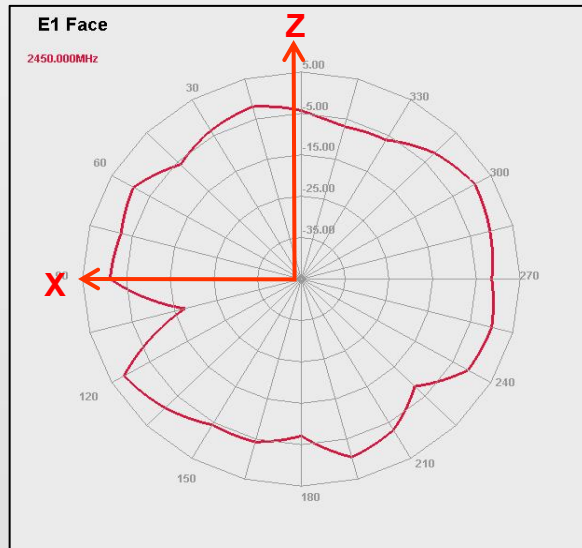
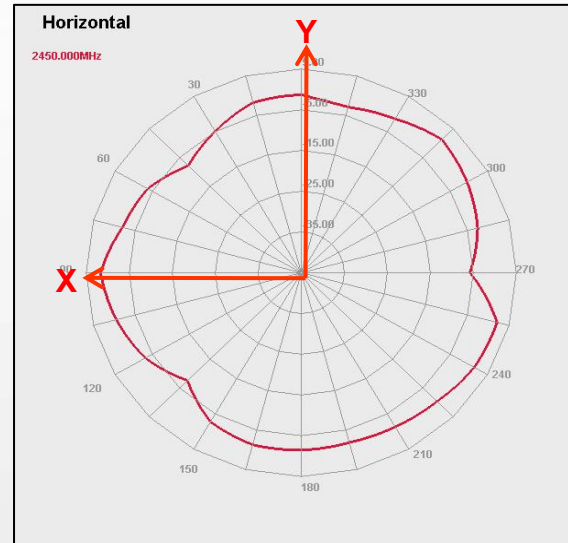
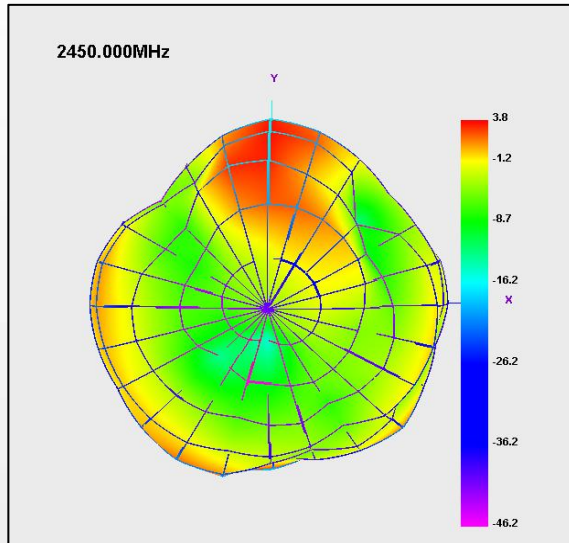
4、4G antenna S11, Return Loss, Smith chart:



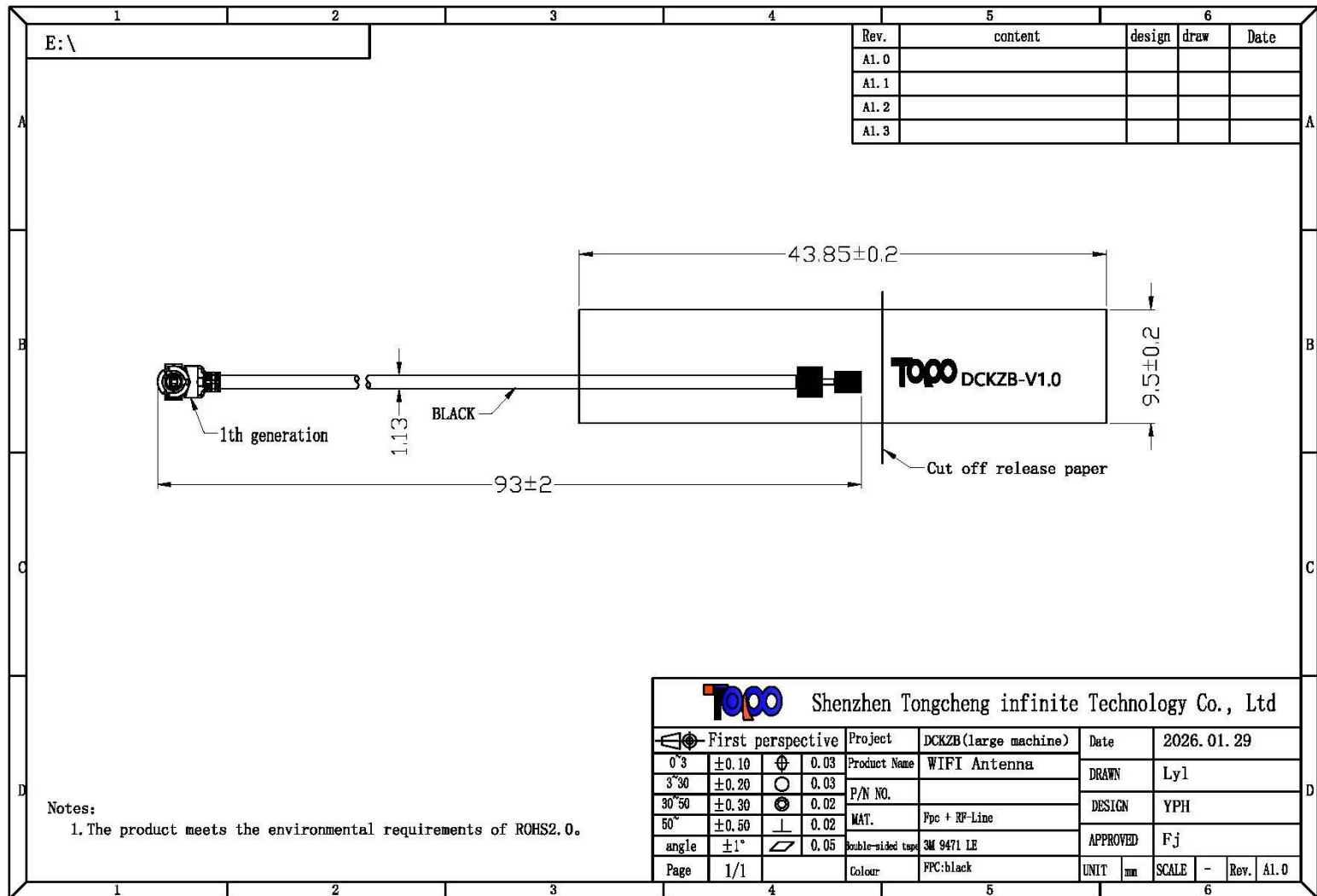
5、 Antenna passive efficiency gain:

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	71.29	3.97
2405	72.47	3.99
2410	72.43	3.91
2415	73.16	3.93
2420	73.68	4.02
2425	75.18	4.01
2430	75.56	4.04
2435	75.16	4.1
2440	74.11	3.97
2445	73.99	3.91
2450	70.55	3.79
2455	69.24	3.72
2460	69.56	3.75
2465	68.38	3.72
2470	66.47	3.66
2475	66.97	3.66
2480	67.18	3.51
2485	67.47	3.53
2490	68.43	3.6
2495	68.5	3.52
2500	68.16	3.28

6、 antenna pattern



7、Antenna Dimension Drawing



Shenzhen Tongcheng Unlimited Technology Co., Ltd

Instructions:

- 1、 Please confirm whether your company agrees with the matching and environmental treatment methods described in the report; this will directly affect the antenna performance. If there are any disagreements, please contact our company promptly;
- 2、 If your company changes materials, components, updates software, or modifies environmental processing, please promptly provide the latest state machine to our company for performance verification;
- 3、 If your company's machines need to be sent to a third party for performance verification, it is recommended to provide the machines for testing to our company for verification before sending them for testing; (as consistency in motherboard, environmental processing, antenna assembly, etc. can affect antenna performance deviation).。

Thank you for your cooperation!

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Time: August 12, 2026