

Shimu

Small machine 2.4G passive debugging report

FM: 2400MHZ-2500MHZ

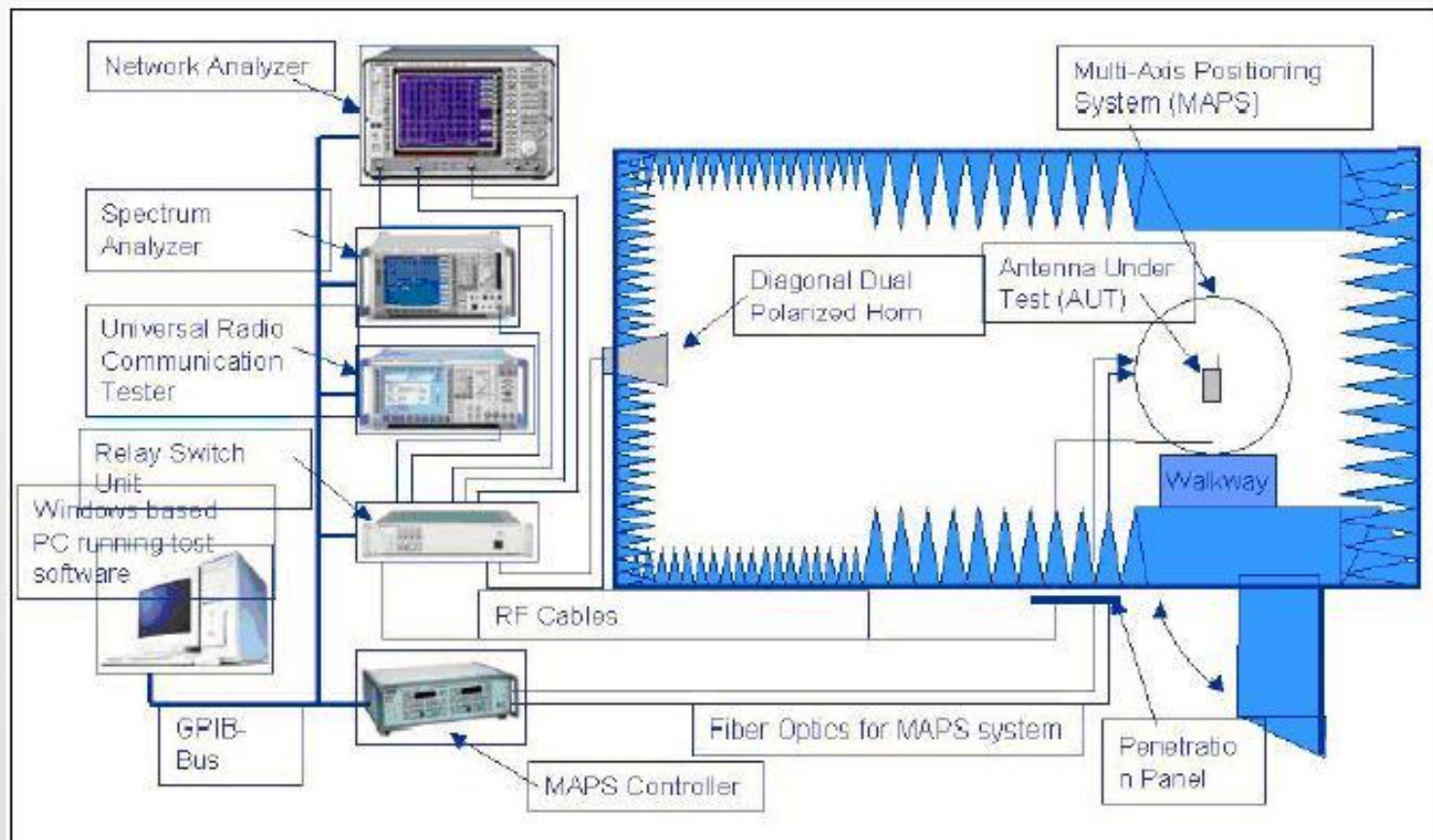
Topocom —The test report

Antenna Model: DCKZB-V1.0

www.topolink.com.cn

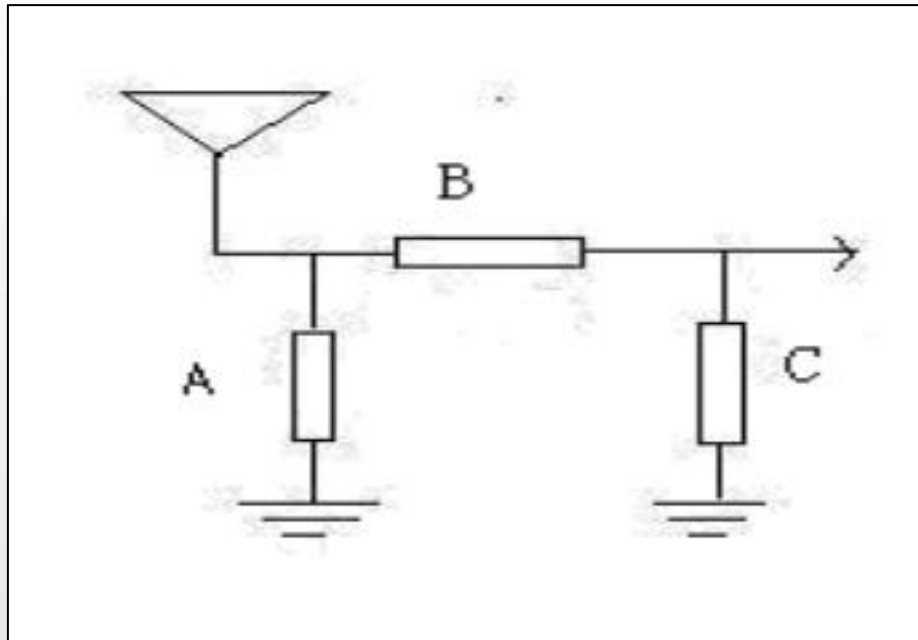
2026-08-12

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**

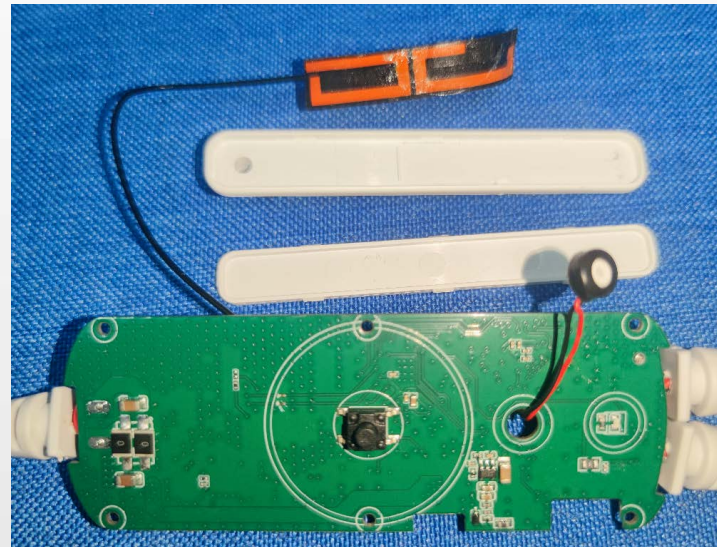
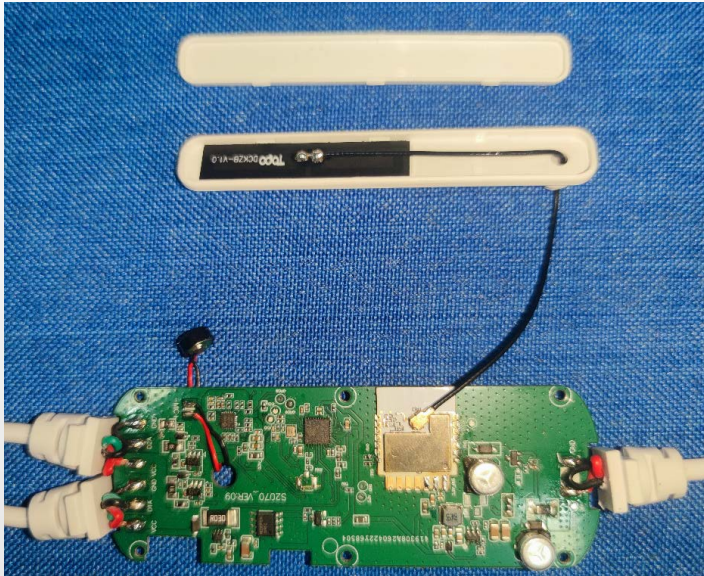


2、 Matching circuit

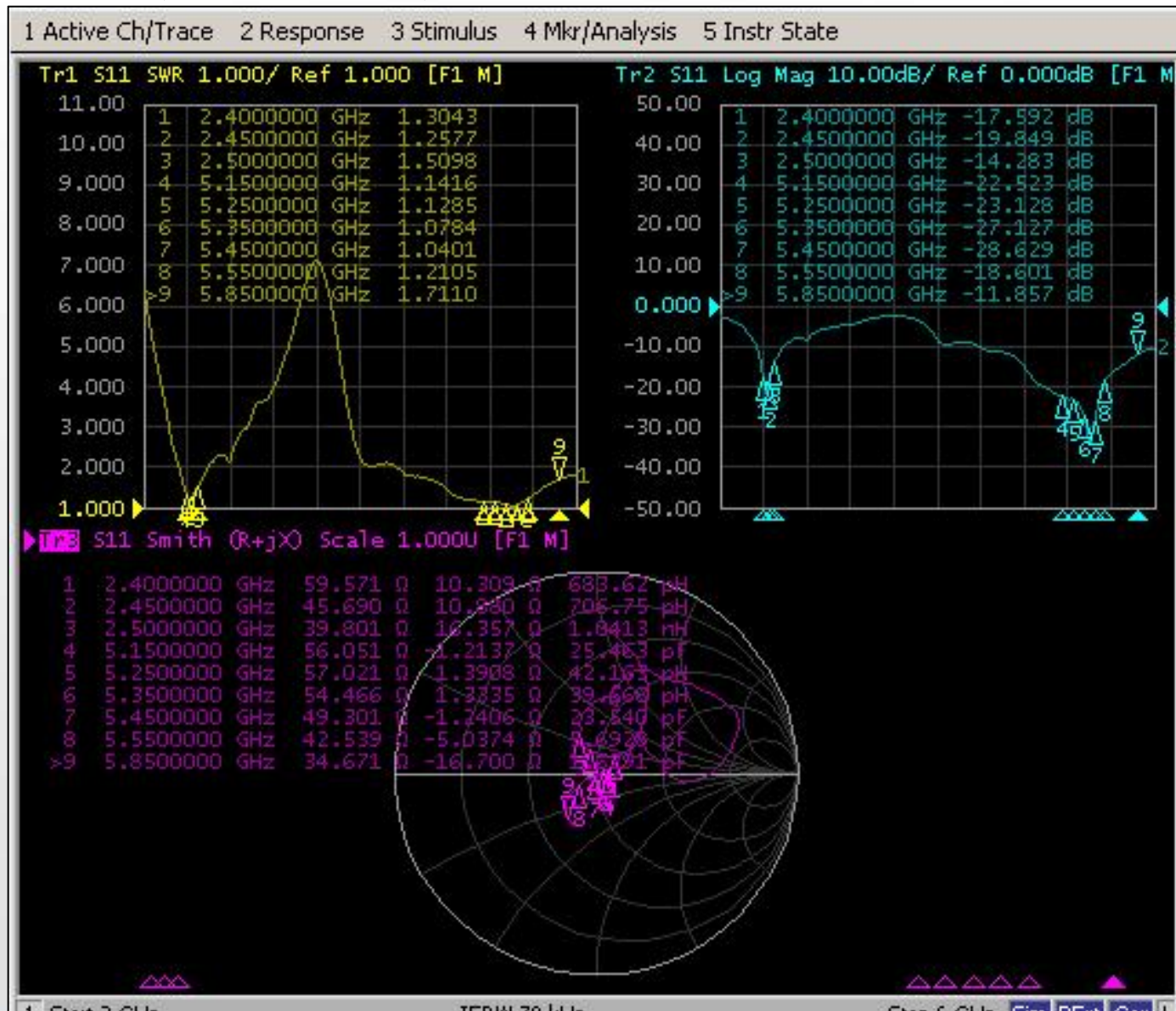
The matching circuit remains unchanged.



3、machine image :



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

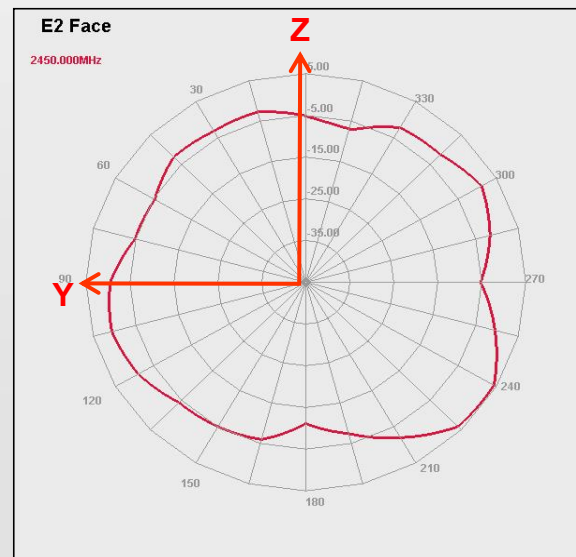
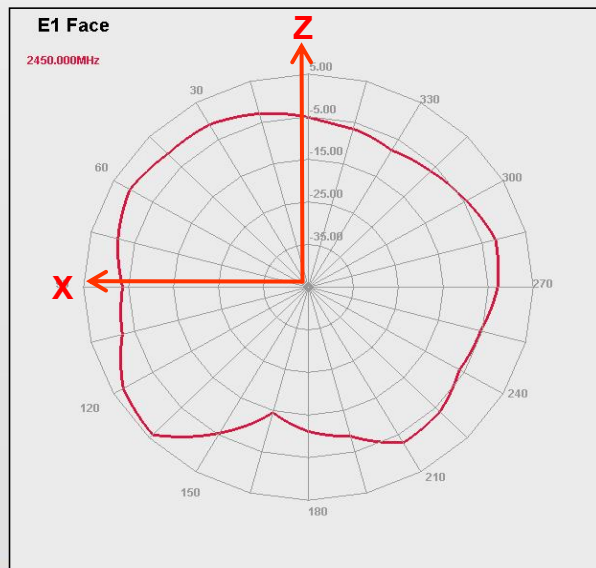
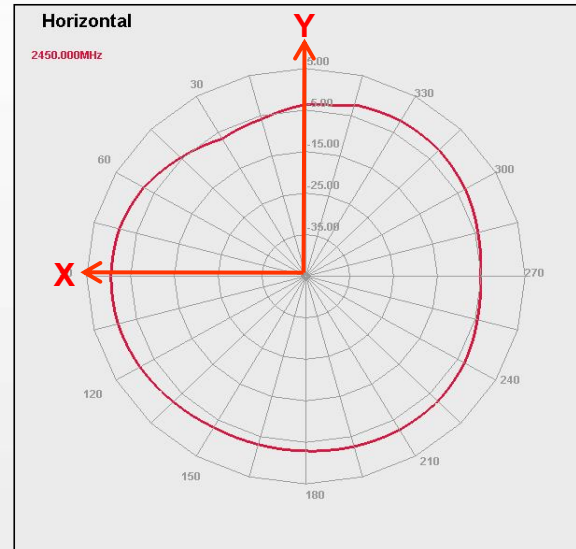
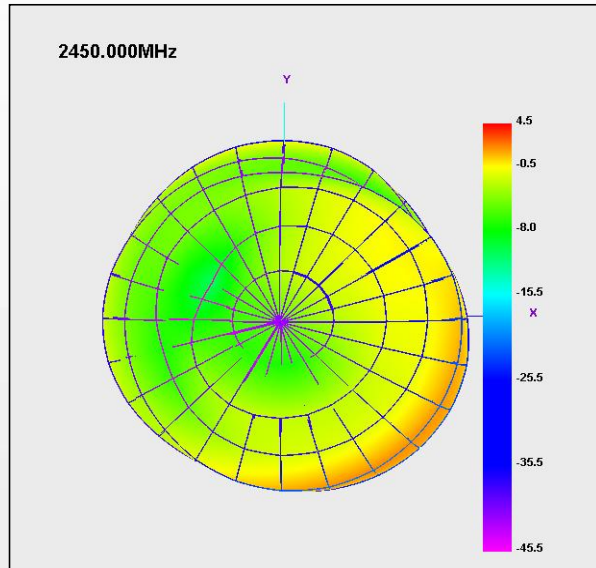


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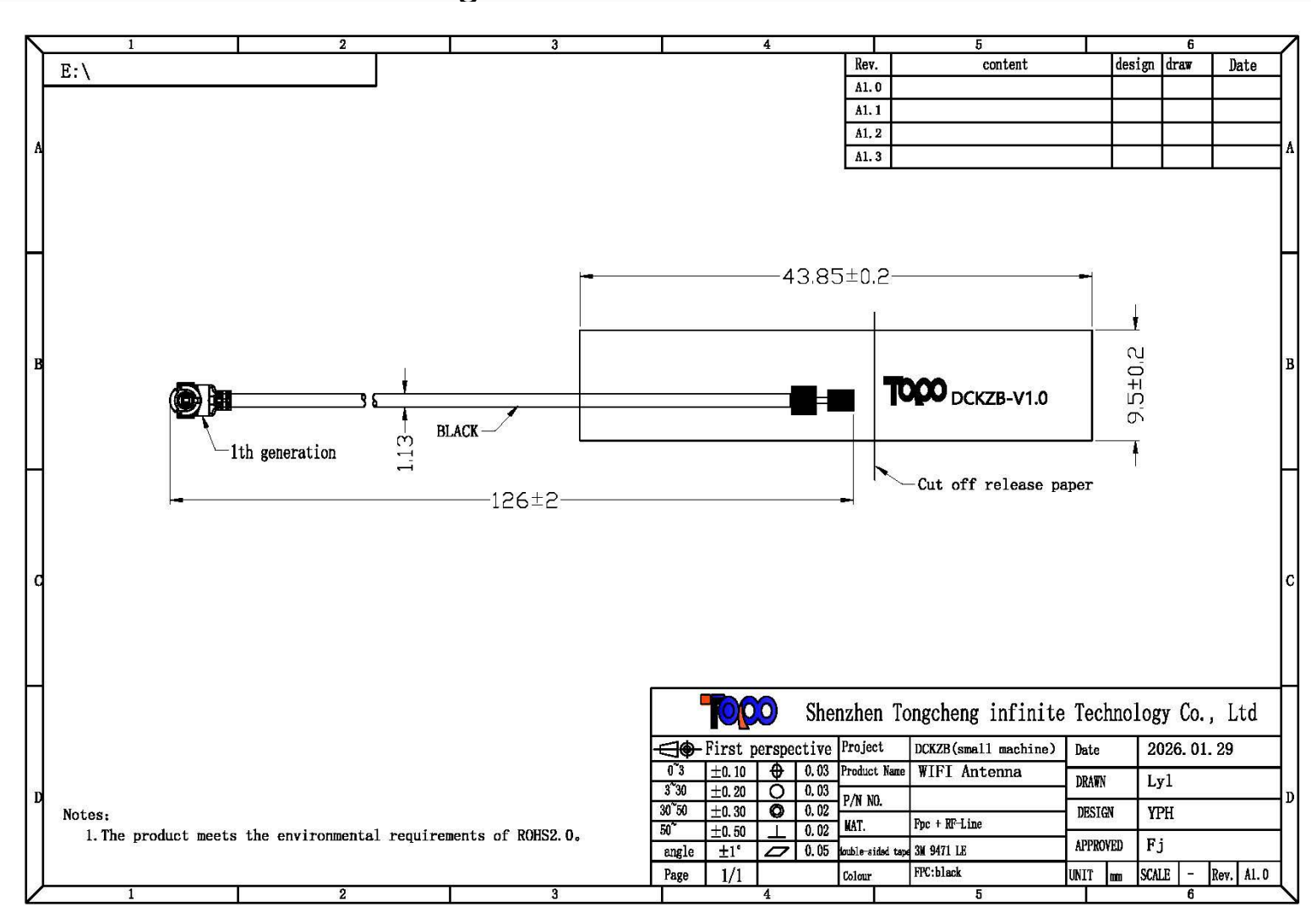
5、 Antenna passive efficiency gain:

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	71.14	4.35
2405	73.43	4.48
2410	73.88	4.6
2415	74.81	4.81
2420	75.68	4.9
2425	77.63	4.92
2430	78.22	4.91
2435	78.12	4.98
2440	77.82	4.9
2445	78.25	4.76
2450	75.32	4.45
2455	74.37	4.36
2460	74.37	4.35
2465	72.96	4.1
2470	71.19	3.82
2475	71.74	3.81
2480	72.08	3.85
2485	73.15	3.8
2490	74.53	3.74
2495	74.24	3.69
2500	74.11	3.77

5、antenna pattern



7、Antenna Dimension Drawing



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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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QQ : 992946671
Time: August 12, 2026