

Shenzhen Saiwei Communication Technology Co., LTD

Antenna Test Report

Customer name: Tailongfeng

Project name: X1-N-315

Report time: 20251015

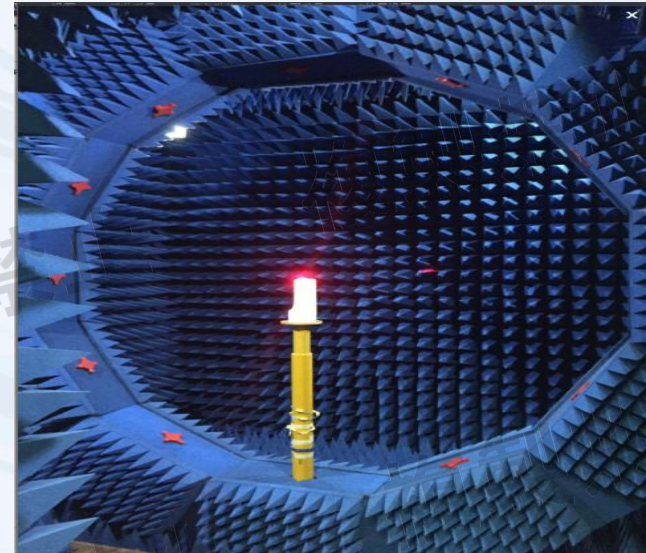
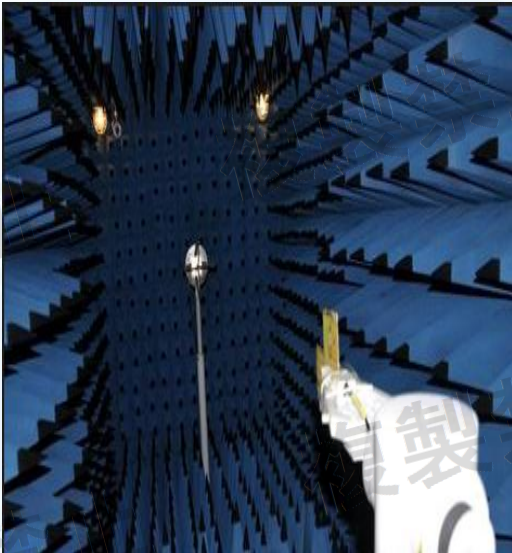
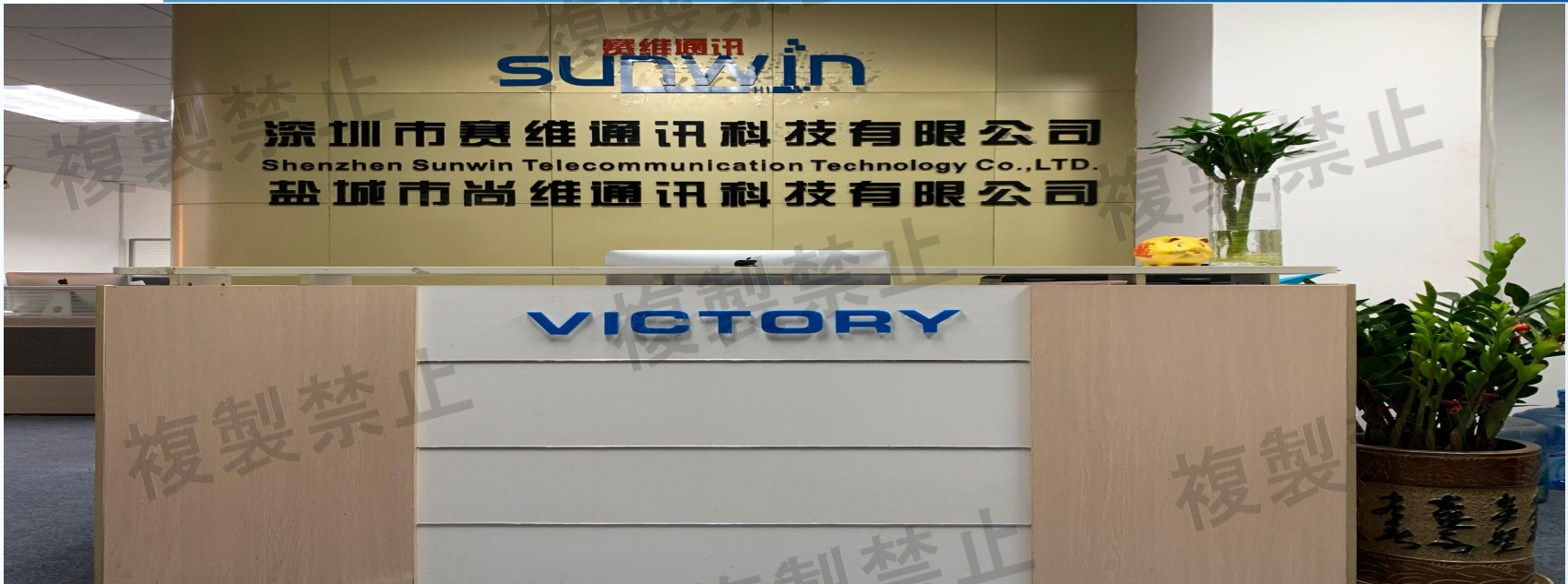
Saiwei-Sai to the future, Wei to eternity!

- △ Project Debugging Introduction
- △ Report Version Summary
- △ Test Environment
- △ Main Antenna Dark Chamber Data
- △ Environment Handling
- △ Additional Notes

type	S37						
Layout/Platform	motherboard						
Antenna Overview	main antenna		Antenna Band	Antenna status	Antenna tuning mode	Antenna Design Area	Match changes
		2G		FPC	PIFA		
		3G					
	4G						
	Other antennas	WIFI					
		GPS					
		diversity	315M				
Prototype status							
Environmental							

Report Version Summary

edition	date	Content Overview
V1	20251031	data report



电气性能

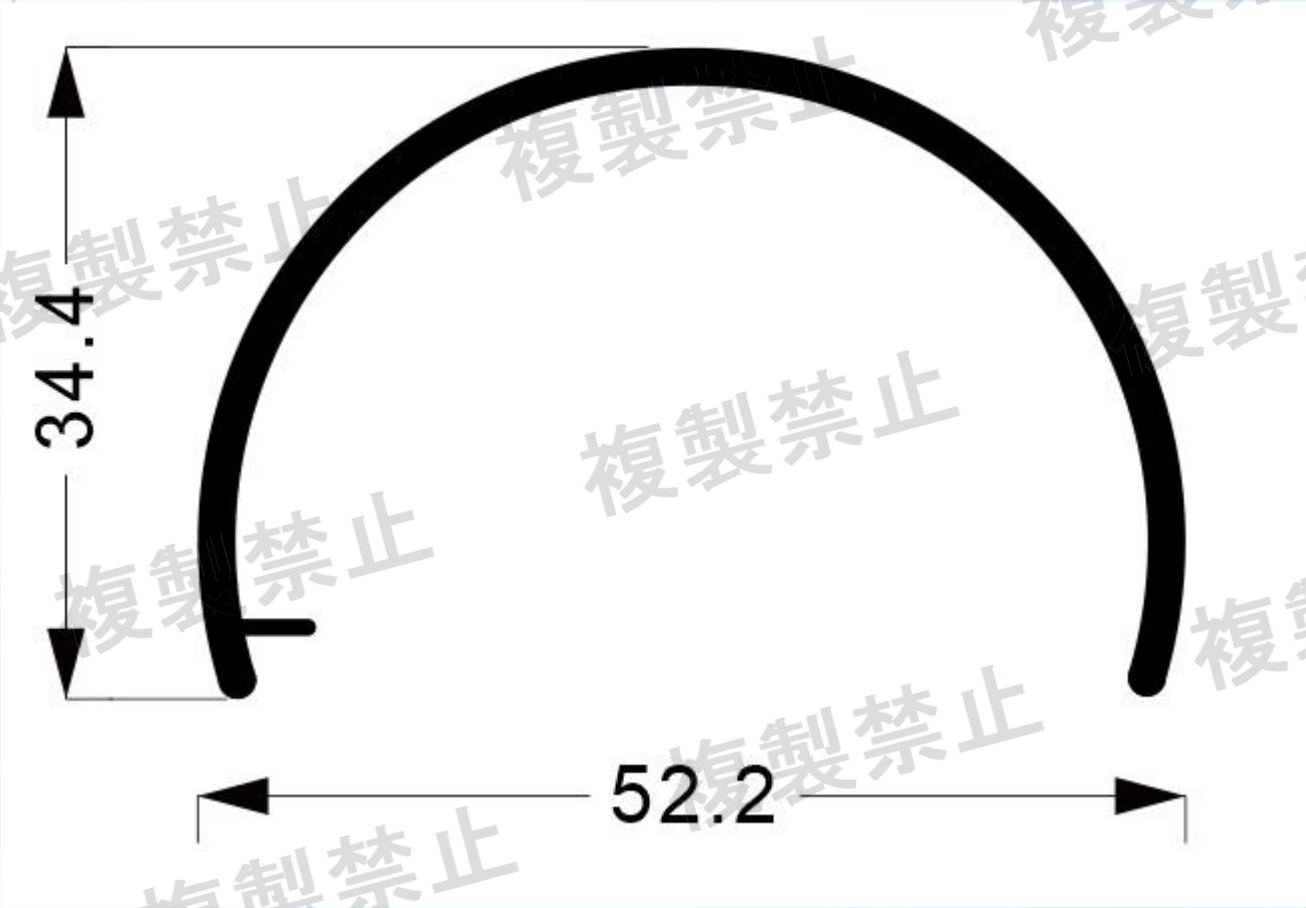
Electrical Characteristics

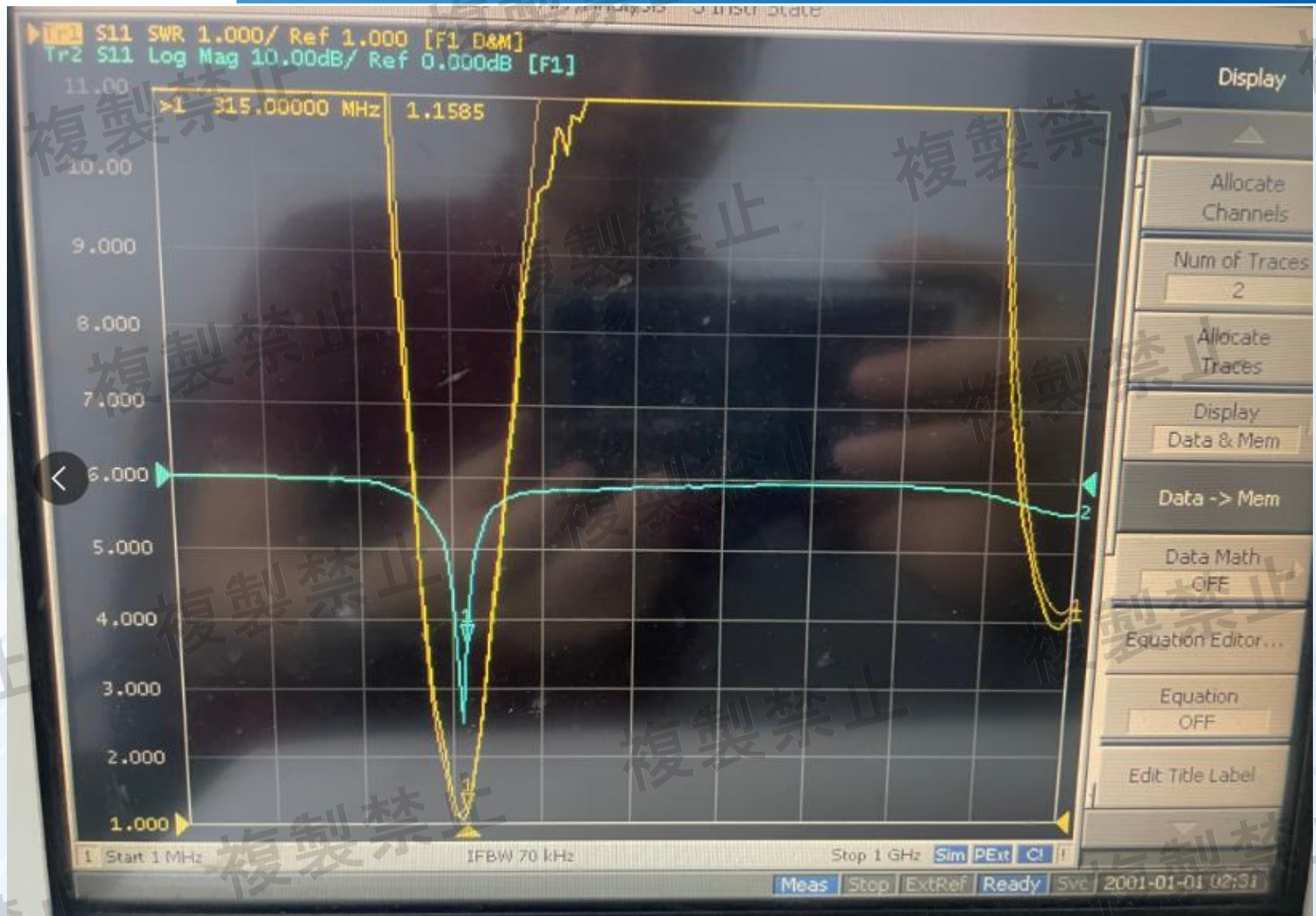
No.	Item (项目)	Specifications (特性)	Post Environmental Tolerance (环境试验后允许误差)
5.1	接收频率范围 (Mhz) Range of Receiving Frequency	F1:315M	±10
5.2	中心频率Center Frequency (Mhz) (with BYD01 GND Plane)	315M	±10.0
5.3	带宽Band With (Mhz) (Return loss ≤-10dB)	≥5	——
5.4	驻波比 V.S.W.R(in Center Frequency)	≤2	——
5.5	增益 Gain(Zenith) (dBi typ)	2 dB typical	——
5.7	特性阻抗 Imedance (Ω)	40/140	±5

Antenna gain

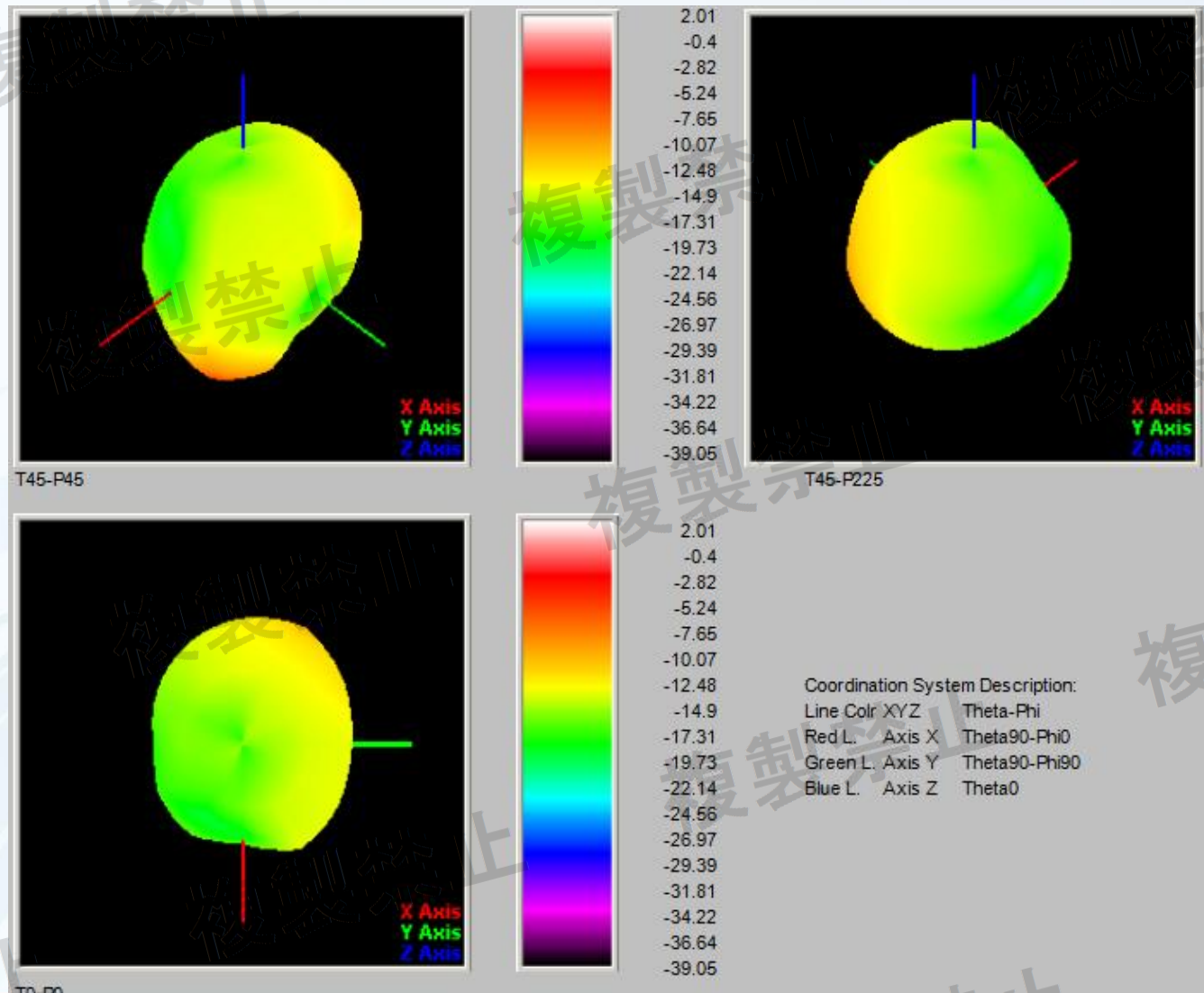
Frequency (MHz)	Gain (dbi)
309	1.95
312	1.97
315	2.01
318	1.99
321	1.97

Antenna specifications





Main antenna apple diagramApple chart



Additional Notes

Please carefully verify whether the matching circuit mentioned in the report has been modified and whether the environmental processing has been imported, which will directly affect the antenna performance.

Note: The parameters in this report are solely for our company's prototype debugging and do not reflect the final production status of your company's project.

If your company has a prototype with the latest trial production or updated status (such as material replacement, software update, or environmental processing change), please submit it to us for verification as soon as possible to confirm whether the antenna performance is affected.

If your company needs to send the antenna to a third party for retest or to the customer for test, please submit the machine to be tested to our company for test confirmation, because the consistency of the motherboard, the consistency of the assembly, and the difference in the antenna assembly may lead to the deviation of the antenna parameters.

Manufacturer: Xiamen Yunhu Software Development Co., Ltd.

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Fujian Province, China

THANK YOU

