深圳通诚无限科技有限公司
Shenzhen Topolink Technology CO., Ltd

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Guangzhou Weilun

PRODUCT NAME: 2.4G rubber rod antenna, SMA curved male head inner hole, total length 50mm

CUSTOMER P/N: 10000027

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Yan Peihao	
APPROVED BY:	Feng Juan	
DATE:	2025.08.20	

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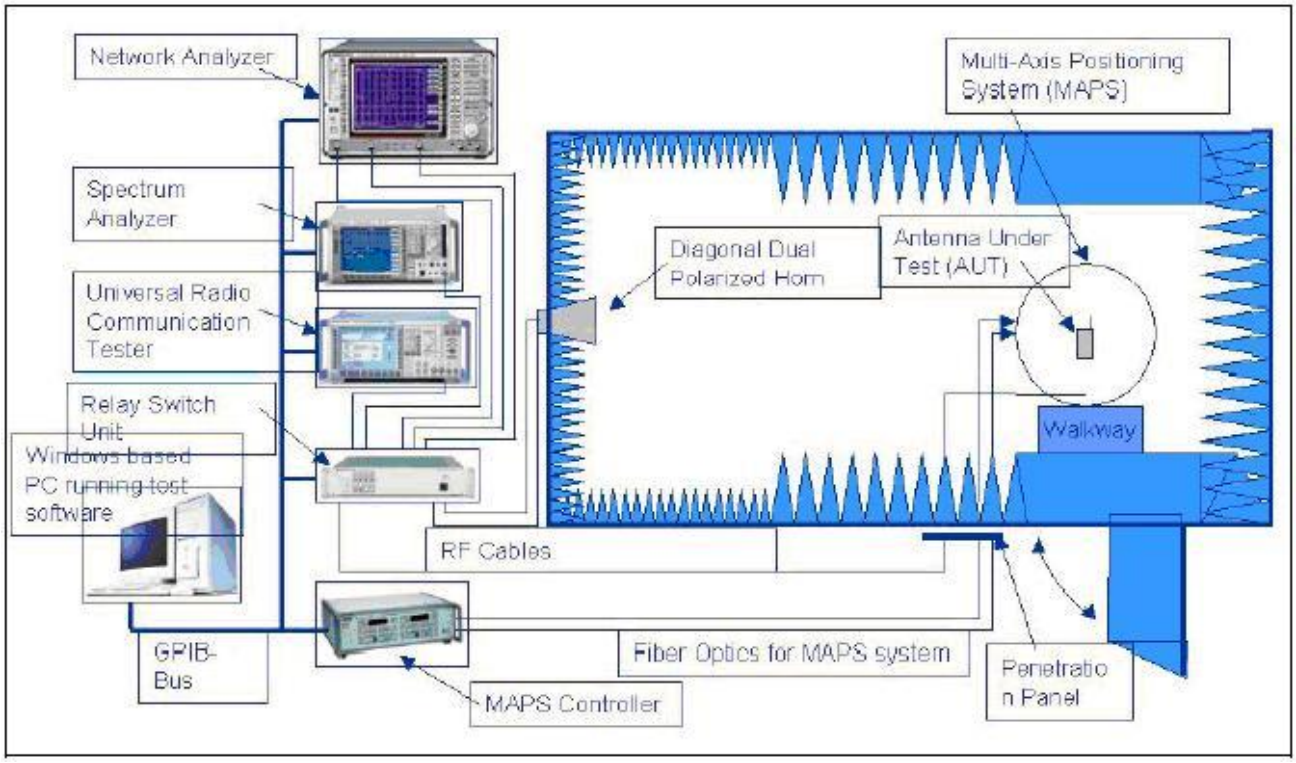
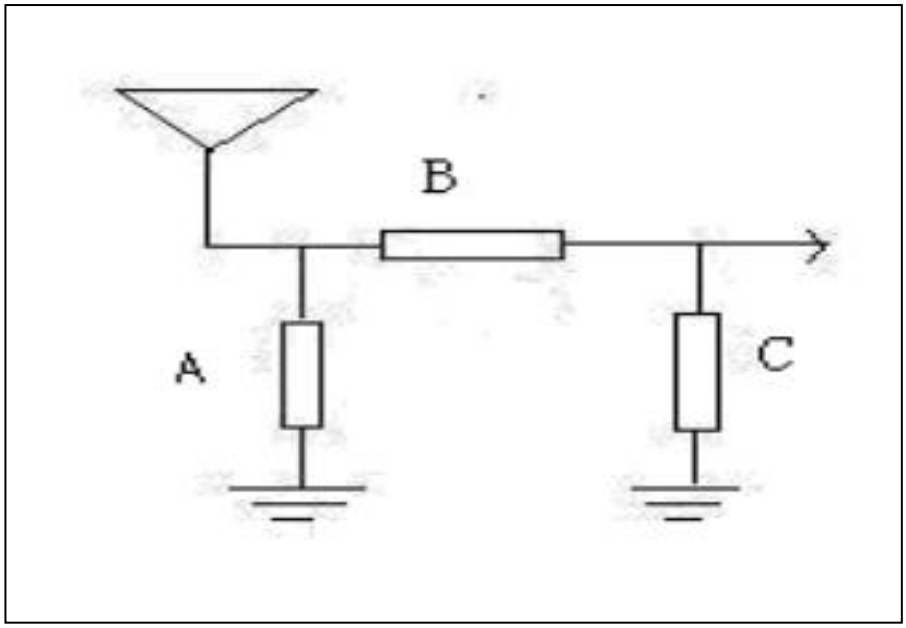
Contents

1．Testing equipment and environment: CTIA 743 darkroom, 8960/5515C, with the phone placed facing away from the standard speaker antenna at a distance of 4 meters from the turntable



2、matching circuit

Matching circuit remains unchanged

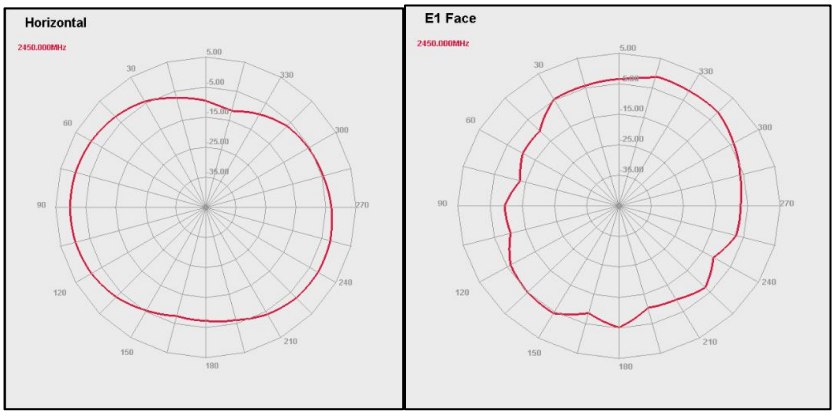


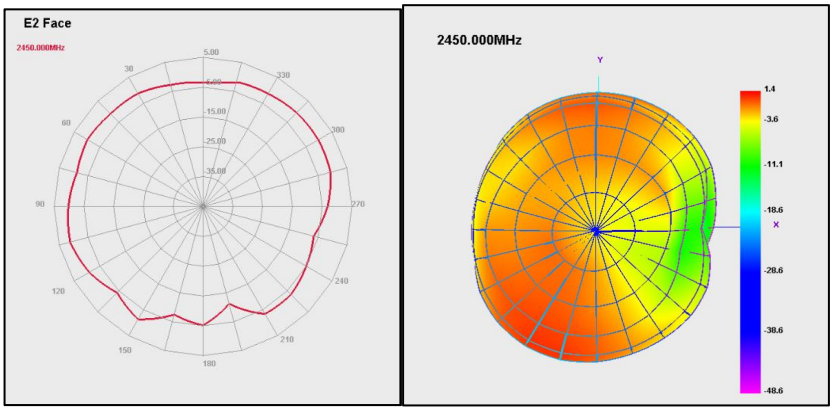
3.Antenna samples

Work indicators	working parameters
model	TCWZJB2400-2500
Specifications	SMA curved male head inner hole, total length 50mm
operating frequency	2400-2500MHZ
standing-wave ratio	<2.0
Return Loss	<-10
gain	3dBi
Operating Temperature	-60+80 degrees
Operating Humidity	<90%
size	L=50MM
weight	3.8g
packaging	PE bags and cardboard boxes

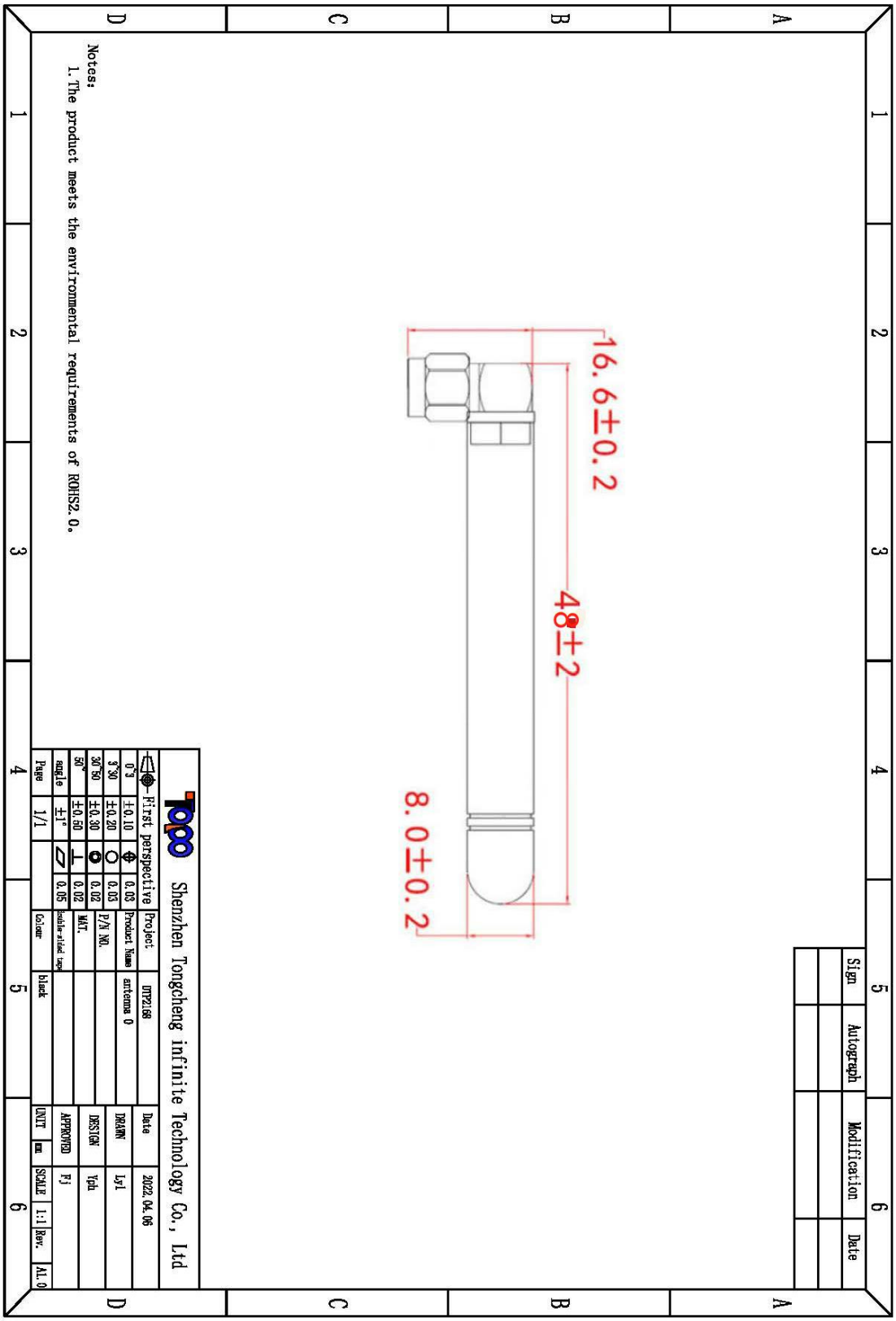
4.Passive test data

5.Antenna Pattern：





6.Antenna structure dimension diagram：



7.Experimental Test Report:

High and low temperature constant humidity test report						
test item	High temperature. Low temperature. Constant humidity test					
Name of test sample	2.4G rubber stick antenna		trial date	2025-6-4		
experimental facilities	Constant temperature and humidity test chamber. Network analyzer		number of test	5PCS		
inspection standard	1. The coating on the metal surface does not fall off, crack, wrinkle and other defects: the non-metallic parts can not have discoloration, fracture, deformation, degumming and other defects					
	2.Electrical test meets design requirements: voltage standing wave ratio test is qualified					
Name of test	test item	ask for	test method	data	result	
					sample	Evaluation
high-temperature test	temperature (℃)	+85±3	According to GB2423.1-89 chapter 8 method	+86	1	qualified
	settling time (H)	1		1.3	2	qualified
	time of duration (H)	2		2.2	3	qualified
	recovery time	1		1.2	4	qualified
					5	qualified
low temperature test	temperature (℃)	-60±3		-62	1	qualified
	settling time (H)	1		1.2	2	qualified
	time of duration (H)	2		2.5	3	qualified
	recovery time	1		1.3	4	qualified
					5	qualified
steady-state damp heat test	temperature (℃)	+40±2		+42	1	qualified
	settling time (H)	90-95		94	2	qualified
	time of duration (H)	45		47	3	qualified
	recovery time	1		1.2	4	qualified
					5	qualified