

A

承认书

PPROVAL SHEET

客 户

Customer name

乔安

客户料号

Customer P/N

X. 800X. C10T24F

品 名

Article Description

JA-C10C WIFI天线 频段B/G/N

同讯料號

TOXU Part No.

KC. IA. 00369 (A2版增加印字)

承认书号码

Approval sheet No.

A20240726-002

日 期

Date

2022. 10. 17

承认填写栏

供应商确认 (供方填写栏)			客户承认 (需方填写栏)		
工程	品质	批准	工程	品质	
李德文	张克林	Macro			首版确认 2024.08.02
公司盖章:	深圳市同讯精密技术有限公司 2024.07.26		公司盖章:	料号: C.J900.433002F 乔安科技	
日期	资料发行章		日期		
客户批示:			☐ 可接受 ☐ 有条件接受		
备注:					

TOXU

同讯技术

深圳市同讯精密技术有限公司

ShenZhen Tongxun Precision Technology Co., Ltd

地址: 深圳市龙华区福城街道茜坑社区茜坑路52号

ADDRESS: 5th floor, No. 52, Xikeng Road, Xikeng community, Fucheng street, Longhua District, Shenzhen

TEL: 0755-28199597

WEB: www.toxutech.com

Mail: sales@toxutech.com/sales01@toxutech.com/sales02@toxutech.com

POST CODE: 518100

KC.IA.00369 (A2 版增加印字)

Antenna Specification

1. Application:

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

1. Electrical Specification:

Those specifications were specially defined for customer's model, and all characteristics were measured under the model's handset testing jig .

2-1. Frequency Band:

Frequency Band	MHz
WIFI 2.4G	2400-2500

2-2. Impedance

50 ohm nominal

2-3. VSWR

2-3-1.Measurement frequency points and VSWR value

Frequency Band(MHz)	2400	2500
2-3-3. Typical Value:	1.4	1.2

UNLESS OTHER SPECIFIED TOLERANCES ON : X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±		 TOXU TECHNOLOGY CO., LTD.
SCALE :	UNIT : mm	
DRAWN BY: LI	CHECKED BY: YS	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF TOXU TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION
DESIGNED BY: De wen	APPROVED BY: YS	
TITLE : KC.IA.00369 Antenna Specification		SPEC REV.
		P0

2-3-4 Measuring Method

1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR.
2. Keeping this jig away from metal at least 20 cm

2-3-5 Picture



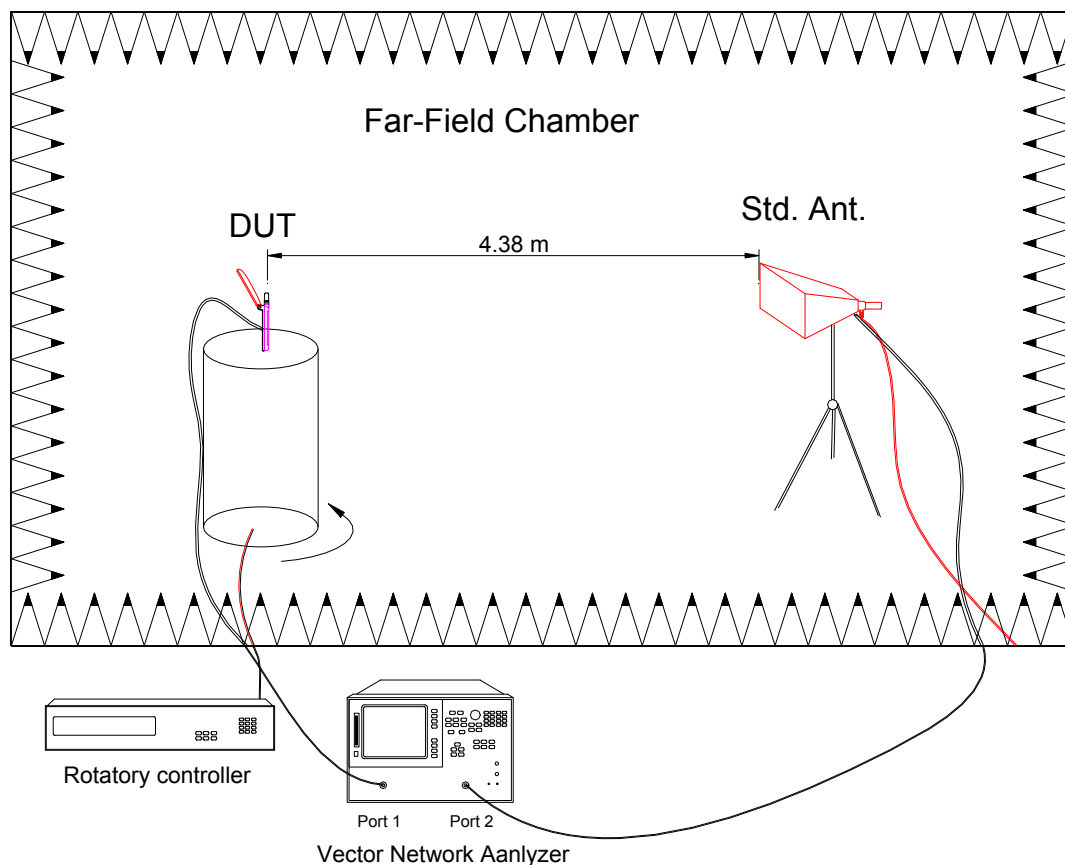
UNLESS OTHER SPECIFIED TOLERANCES ON :		TOXU 同讯技术	TOXU TECHNOLOGY CO., LTD.
X=±	X.X=±		
ANGLES=±		HOLEDIA=±	
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF TOXU TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY: LI	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.IA.00369 Antenna Specification			SPEC REV.
			P0

2-4. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition

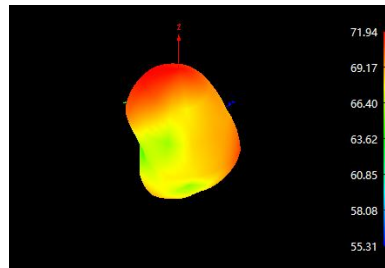
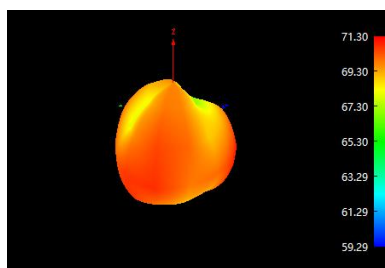
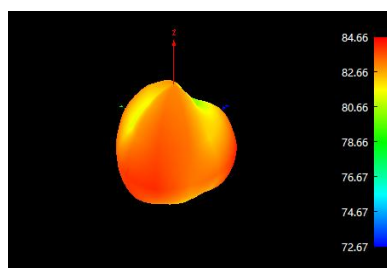
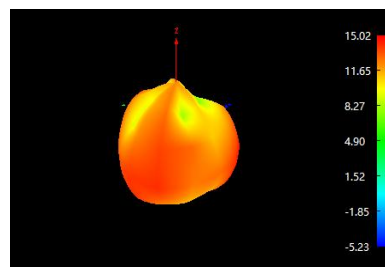
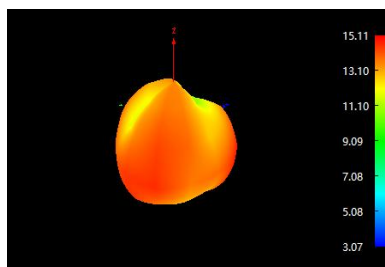
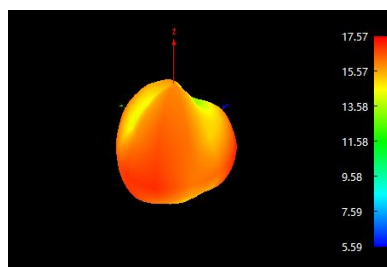


1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

UNLESS OTHER SPECIFIED TOLERANCES ON :			TOXU TECHNOLOGY CO., LTD.
X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±			
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF TOXU TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY: LI	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.IA.00369 Antenna Specification			SPEC REV.
			P0

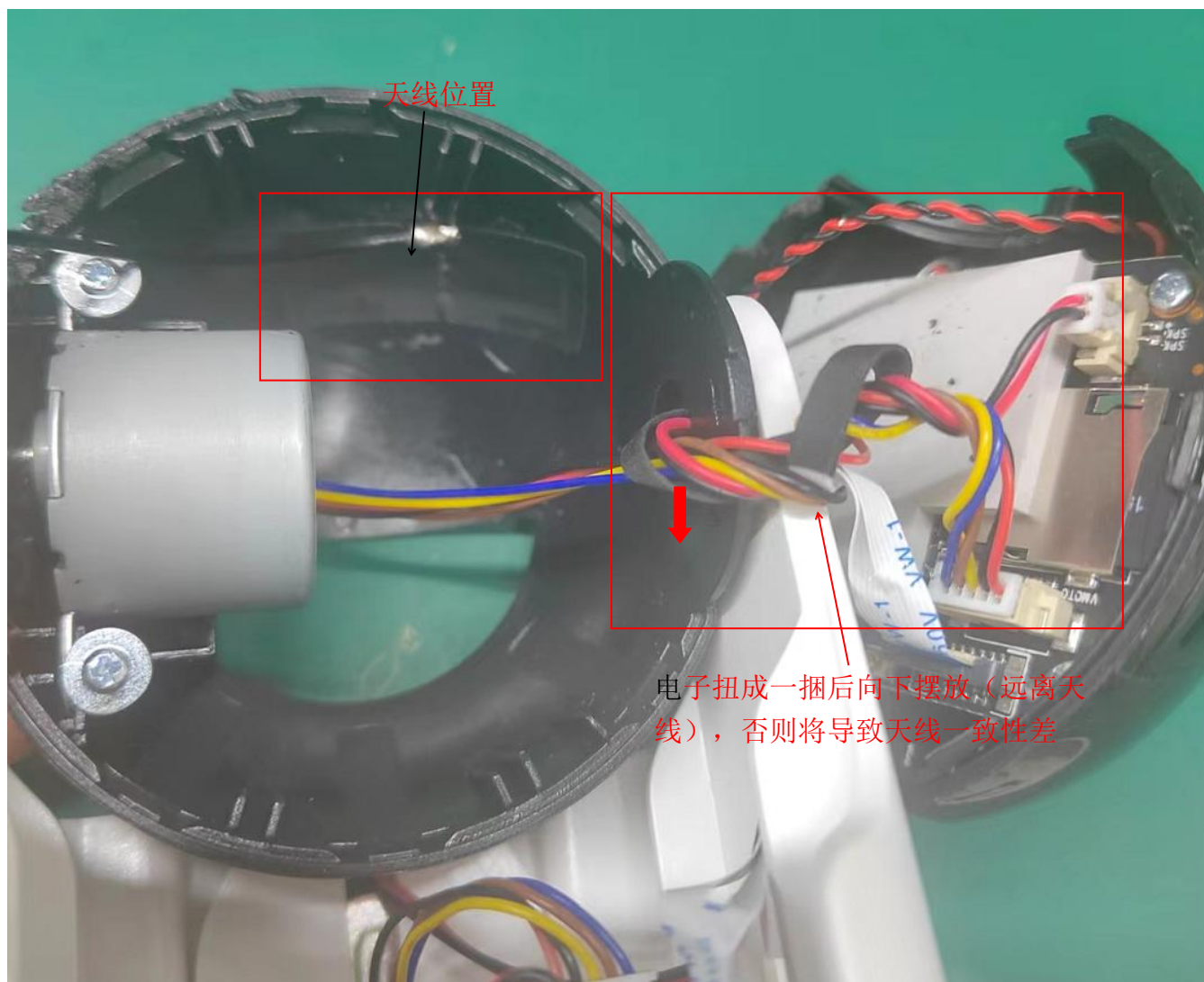
2-4-1 Active test

Band	Max	Min	Total
WIFI_B (11M)	15.82	3.29	14.01
WIFI_B (11M)	17.57	5.59	14.78
WIFI_B (11M)	-72.67	-84.66	-81.87
WIFI_G (54M)	13.21	0.84	11.85
WIFI_G (54M)	15.11	3.07	12.44
WIFI_G (54M)	-59.29	-71.3	-68.62
WIFI_N_ISM (65M)	13.16	0.85	11.14
WIFI_N_ISM (65M)	15.02	-5.23	12.28
WIFI_N_ISM (65M)	-38.38	-71.94	-61.17



UNLESS OTHER SPECIFIED TOLERANCES ON :		TOXU 同讯技术	TOXU TECHNOLOGY CO., LTD.
X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±			
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF TOXU TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY: LI	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.IA.00369 Antenna Specification			SPEC REV.
			P0

2-4-2 Environmental treatment

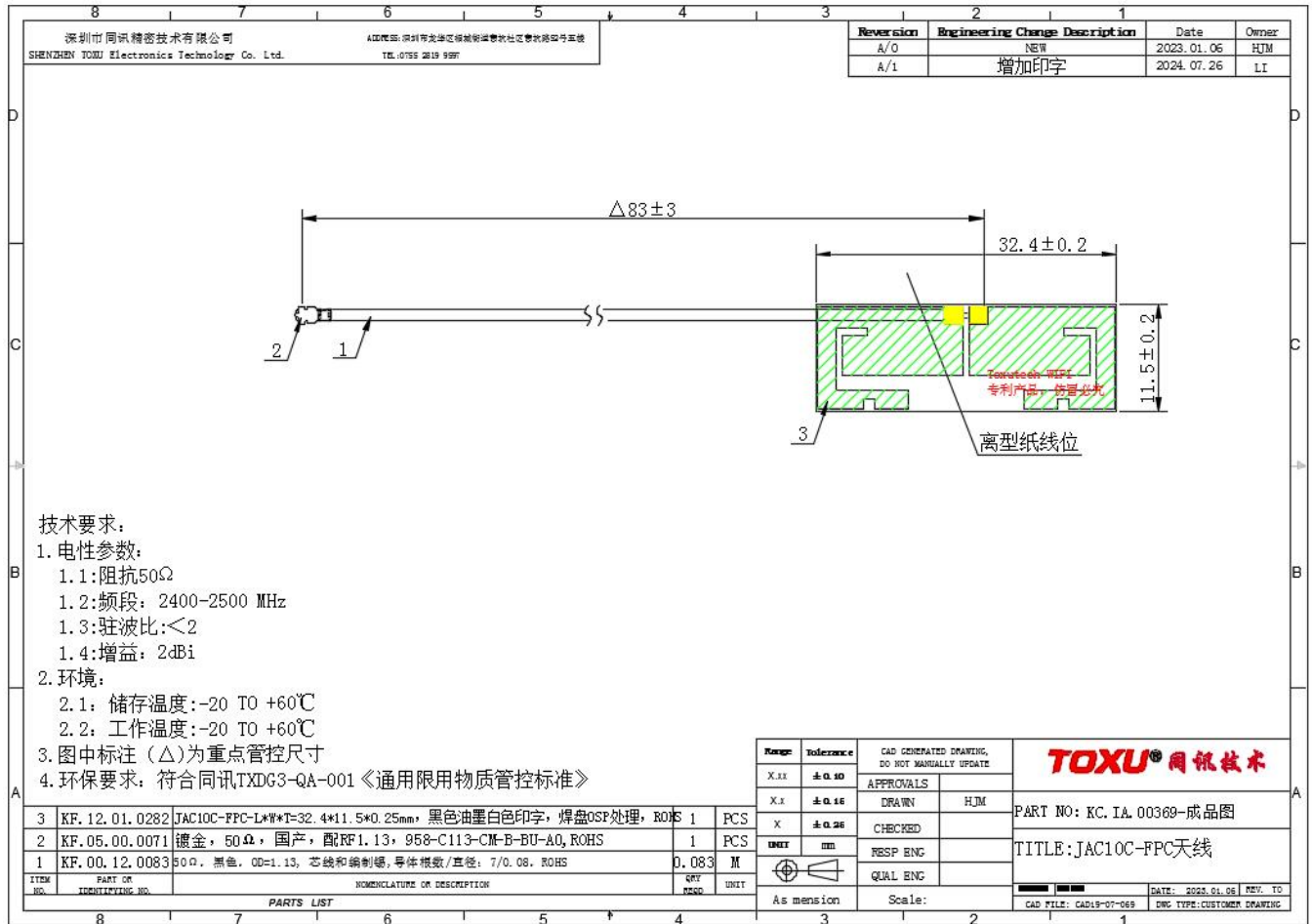


UNLESS OTHER SPECIFIED TOLERANCES ON :		TOXU 同讯技术	TOXU TECHNOLOGY CO., LTD.	
X=±	X.X=±			X.XX=±
ANGLES=±				HOLEDIA=±
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF TOXU TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
DRAWN BY: LI	CHECKED BY: YS			
DESIGNED BY: De wen	APPROVED BY: YS			
TITLE : KC.IA.00369 Antenna Specification			SPEC REV.	
			P0	

3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



UNLESS OTHER SPECIFIED TOLERANCES ON :		TOXU 同讯技术	TOXU TECHNOLOGY CO., LTD.
X=±	X.X=±		
ANGLES=±		HOLEDIA=±	
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF TOXU TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY: LI	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.IA.00369 Antenna Specification			SPEC REV.
			P0

5.包装规格:

产品料号: **xxx**

产品型号: **xxx**

一、标签要求:

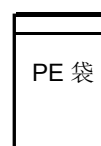
需方	xxx		
供方	xxxxxx		
物料编码	xx		
产品型号	xx		
数量/单	xxx PCS	出厂日期	X 年 X 月 X 日
备注/其他			

二、装箱要求:

作业说明:

1. 内包装:

产品 **XXpcs** 一袋, 放入小 **PE** 袋;

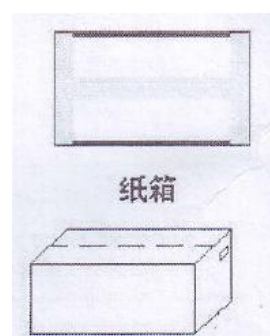


2. 外包装:

XxPCS 一箱;

3. 注意事项:

- 是否要增设隔板、珍珠棉;
- 标签的帖附, 如 **ROHS** 等;



UNLESS OTHER SPECIFIED TOLERANCES ON :		TOXU 同讯技术	TOXU TECHNOLOGY CO., LTD.
X=±	X.X=±		
ANGLES=±		HOLEDIA=±	
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF TOXU TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY: LI	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.IA.00369 Antenna Specification			SPEC REV.
			P0