

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER NAME	Beijing Peksunny Auto Tech Co.,Ltd	
	CS P/N	D317	
	PART NAME	WIFI Antenna	
	FREQUENCY	2400~2500/5150~5850MHz	
	ZTX NO.	2.00004754	
	DATE	2020-08-22	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign: _____

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER



深圳市中天迅通信技术有限公司
SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd.

Address: No. 34, Shilong Avenue, Shiyan Town, Baoan District, Shenzhen (Tengda Industrial Park) Zip code: 518000
Tel: 0755-27588320 Fax: 0755-27588045 <http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N :D317 WIFI Antenna

ApplicationDate:Aug,22,2020

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ZTX P/N :D317 WIFI Antenna

Editor:

Page 1 of 11

Revision history

VERSION	DATE	STATE
A1	2020-08-22	First edition



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Editor:

Page 2 of 11

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification (WIFI Antenna)	3
2		Test equipment	4
3		Antenna test data	5
	3-1	VSWR	5
	3-2	Return loss plot	5
	3-3	Smith Chart	6
	3-4	No-source test data	6
	3-5	Matching circuit	6
	3-6	Environment treatment	7
	3-7	Directional drawing of horizontal plane of	7~8
	3-8	3D radiation drawing	8
4		Size report	9
5		Environment Characteristic	10

1. Mechanical Specification



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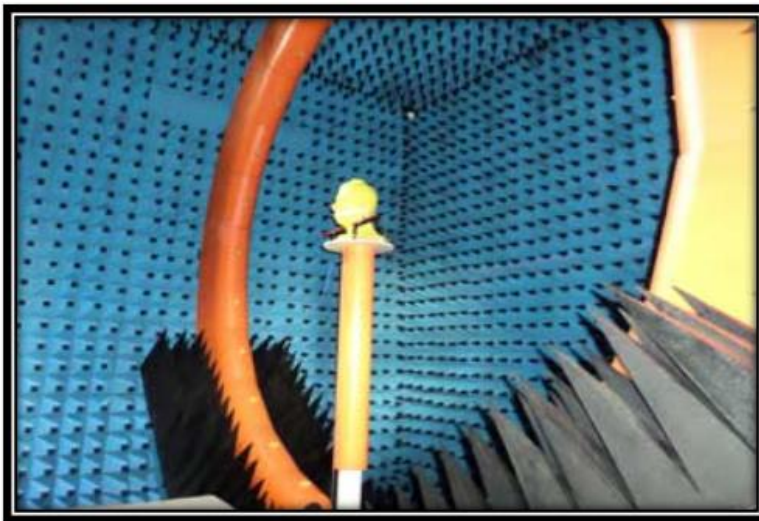
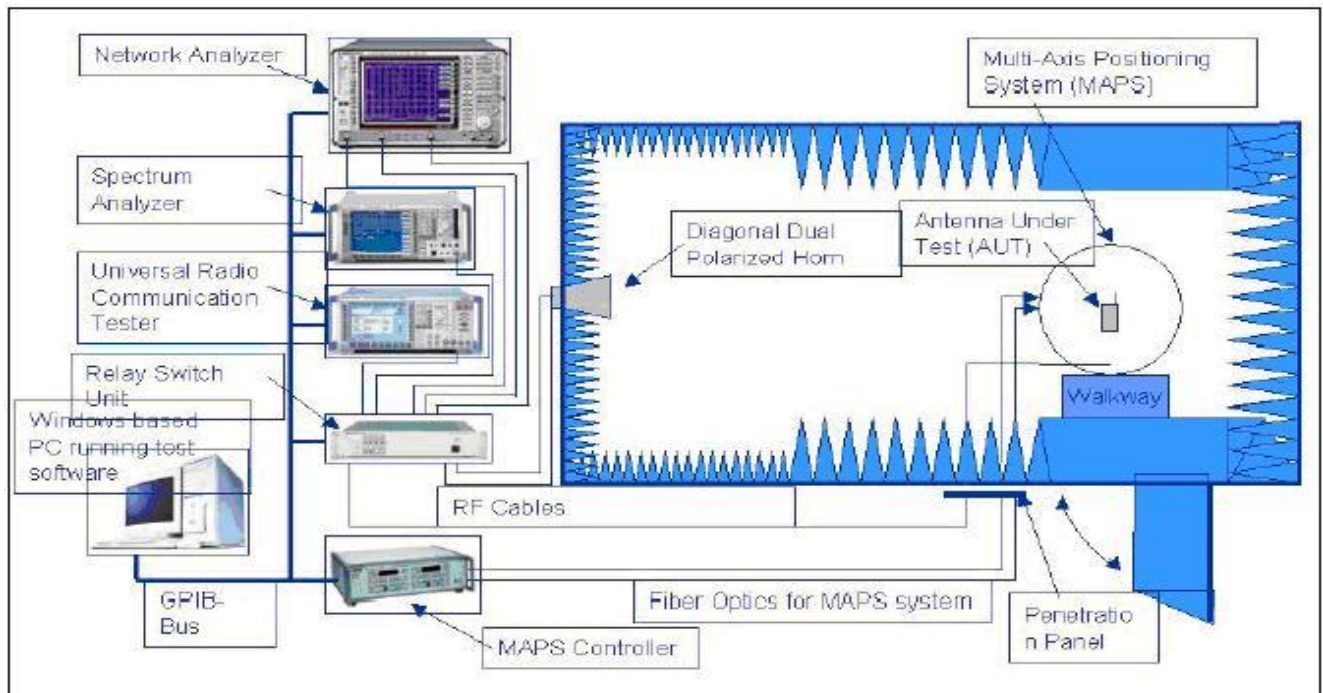
Rev: R:A1

ZTX P/N :D317 WIFI Antenna

Editor:

Page 4 of 11

2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



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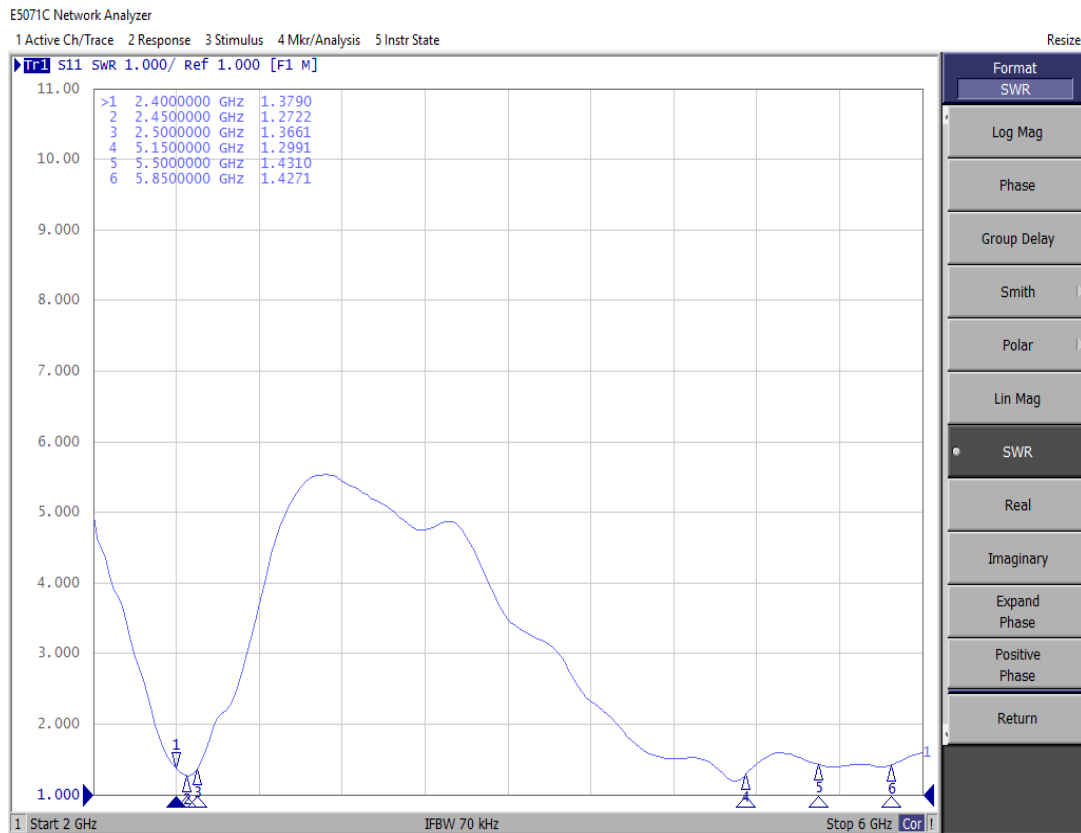
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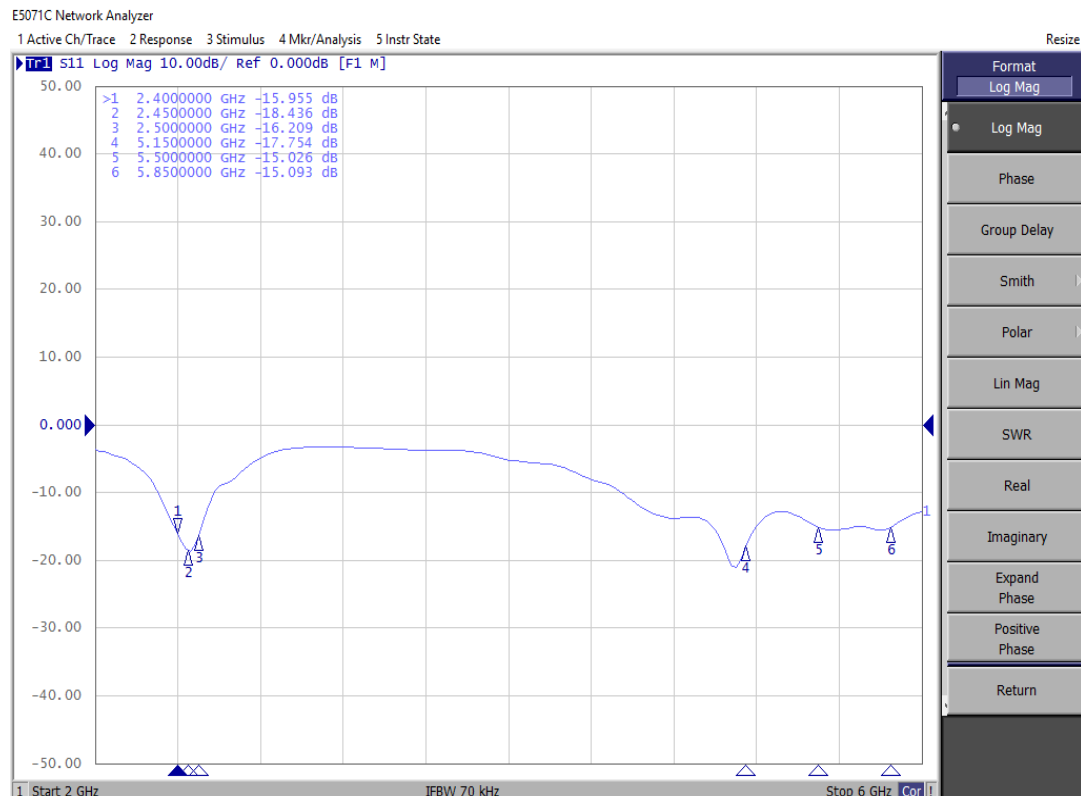
Page 5 of 11

3.Antenna test data

3-1 VSWR



3-2 Return loss plot



ANTENNA SPECIFICATION

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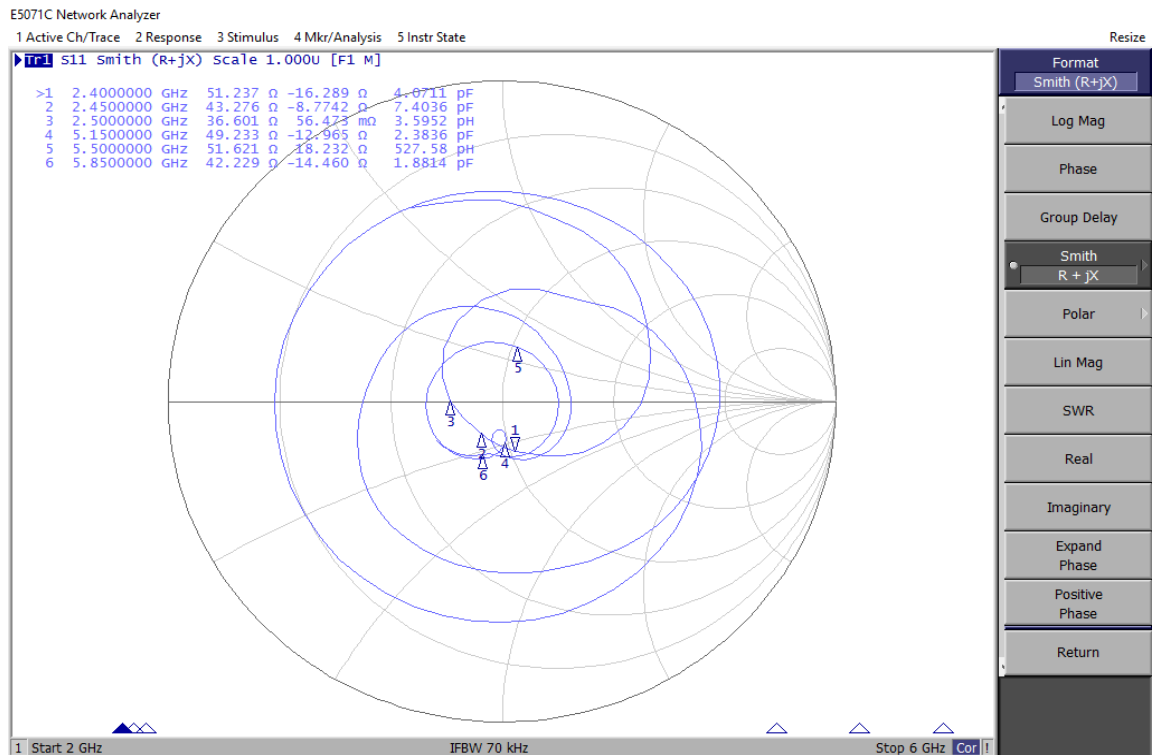
Rev: R:A1

ZTX P/N :D317 WIFI Antenna

Editor:

Page 6 of 11

3-3 Smith Chart



3-4 Matching circuit

N/A

3-5 No-source test data

Frequency	Efficiency	Gain . dB	Frequency	Efficiency	Gain . dB
2.4E+09	47%	3.65	5.15E+09	59%	4.85
2.41E+09	46%	3.64	5.2E+09	61%	4.82
2.42E+09	48%	3.91	5.25E+09	59%	4.87
2.43E+09	51%	4.11	5.3E+09	58%	4.90
2.44E+09	50%	4.10	5.35E+09	60%	4.80
2.45E+09	51%	4.28	5.4E+09	57%	4.86
2.46E+09	47%	3.70	5.45E+09	59%	5.19
2.47E+09	50%	3.83	5.5E+09	61%	5.31
2.48E+09	47%	3.45	5.55E+09	62%	5.39
2.49E+09	46%	3.34	5.6E+09	60%	5.28
2.5E+09	46%	3.24	5.65E+09	59%	5.30
			5.7E+09	56%	5.36
			5.75E+09	59%	5.37
			5.8E+09	58%	5.49
			5.85E+09	61%	5.43



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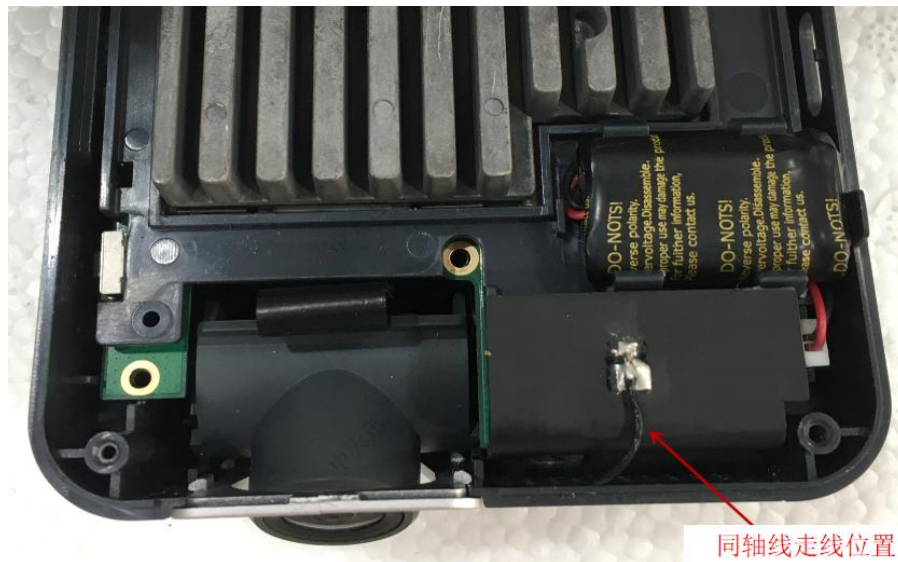
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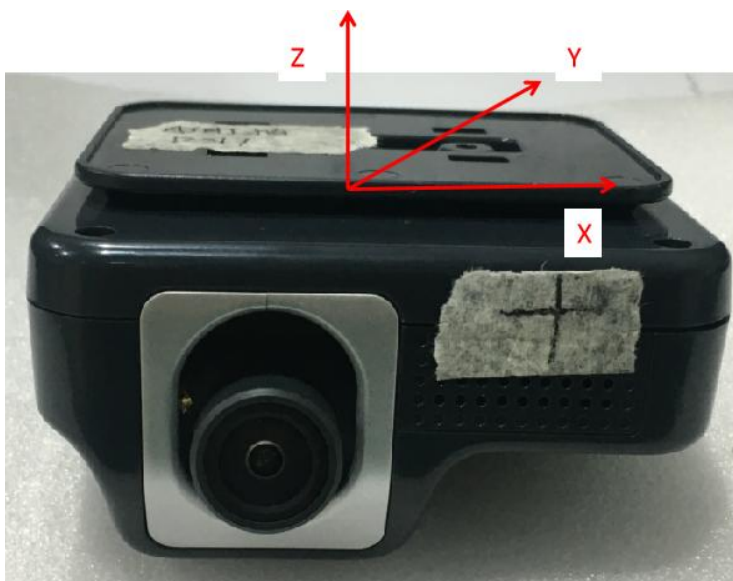
Editor:

Page 7 of 11

3-6 Environment treatment



3-7 Directional drawing of horizontal plane of



X轴是平行于机器背面向右；
Y轴是平行于机器背面向后；
Z轴是垂直于机器背面向上。



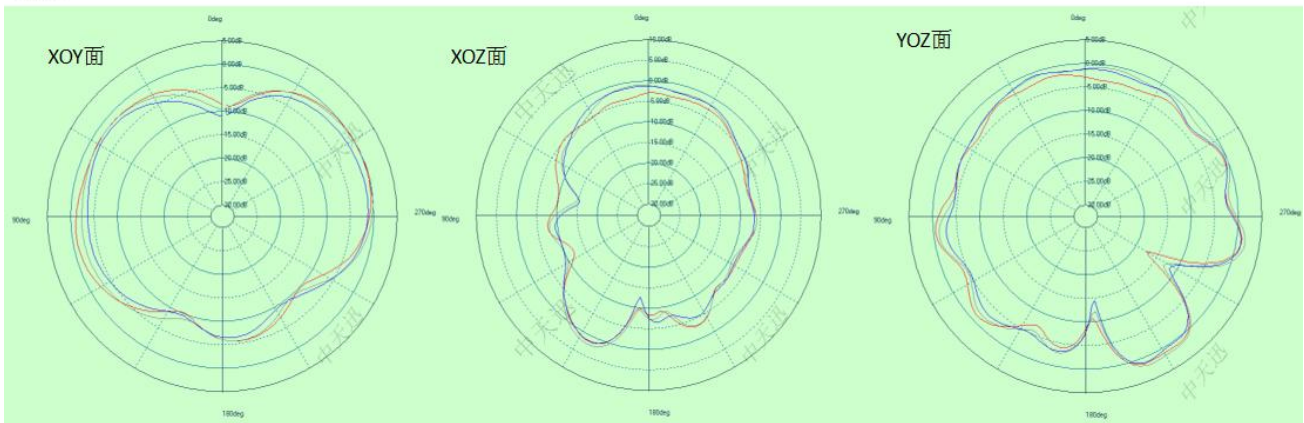
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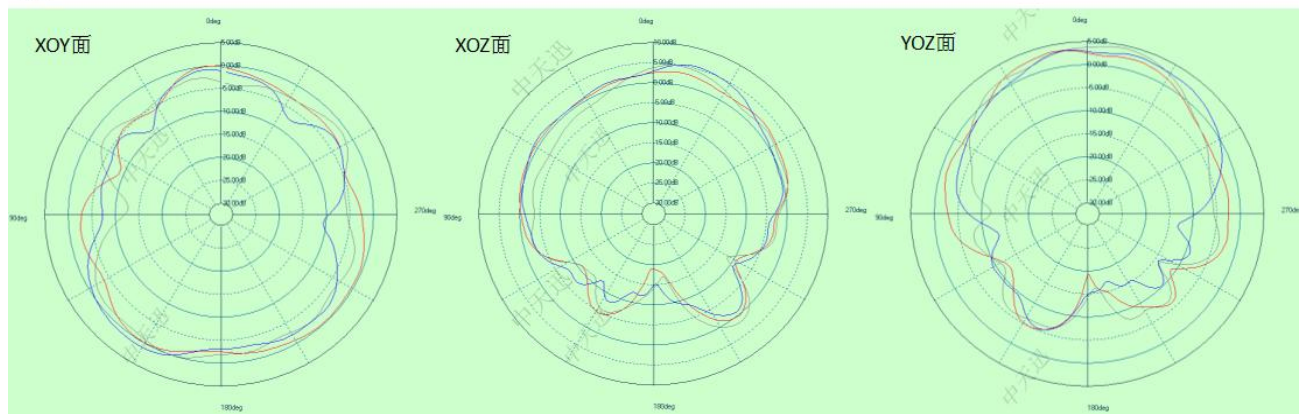
ApplicationDate:Aug,22,2020
Editor:

Rev: R:A1
Page 8 of 11

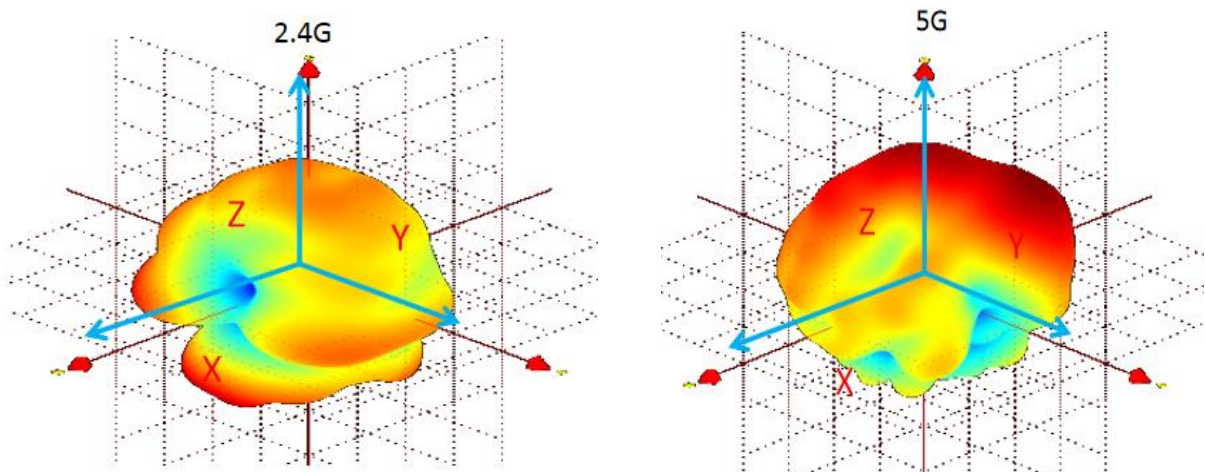
2.4G



5G



3-8 3D radiation drawing



ANTENNA SPECIFICATION

CUS P/N :D317 WIFI Antenna

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Rev: R:A1

ZTX P/N :D317 WIFI Antenna

Editor:

Page 9 of 11

4. Size report

Customer name	Yangguangda	Product name	D317 WIFI Antenna		Quantity	5pcs		
Product material	FPC+Coaxial line	Material color	Black		Date	2020/8/12		
Product type: ☒ New mold sample ☐ Modified mold samples ☐ Mass production ☐ other								
NO	Engineering drawings require dimensions	Measured dimensions					Decide	Remark
		1	2	3	4	5		
1	30.00±0.15	30.02	30.02	30.03	30.01	30.02	OK	
2	22.00±0.15	22.00	22.03	22.02	22.03	22.01	OK	
3	36.00±1.50	36	36	36	36	36	OK	
4	Φ 0.81±0.03	0.81	0.81	0.81	0.81	0.81	OK	
Appearance: OK								
Performance: OK								
Total verdict: ☒ OK ☐ NG								
Approved: Liu Rong Checked: Hu Chunmei Prepared: Yi Ailing								
Remark:								

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Editor:

Page 10 of 11

5.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
5-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +70 ±2℃ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
5-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30 ±2℃ 2.Humidity: 0%RH 3.Time: 48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

