

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A2)

	CUSTOMER(客户名称)	Arashi Vision Inc.	
	CS P/N(客户机种)	Onexs	
	PART NAME(品名)	WIFI Antenna	
	FREQUENCY(频率)	2.4G~2.5G+5.15G~5.85G	
	ZTX NO.(物料编号)	2.00004242	
	DATE(日期)	2022-05-16	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		YILIN ZOU	WENQI LIU	



深圳市中天迅通信技术股份有限公司

SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd.

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ANTENNA SPECIFICATION

CUS P/N :Onexs WIFI Antenna

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Revision history

版本	日期	状态
A1	2019-12-26	Initial Release
A2	2022-05-16	Updated the position of the antenna solder joint, increase the overall reinforcement, and increase the 3mm adhesive-free area; Fpc increases the tear handle; the wire is replaced with low loss;



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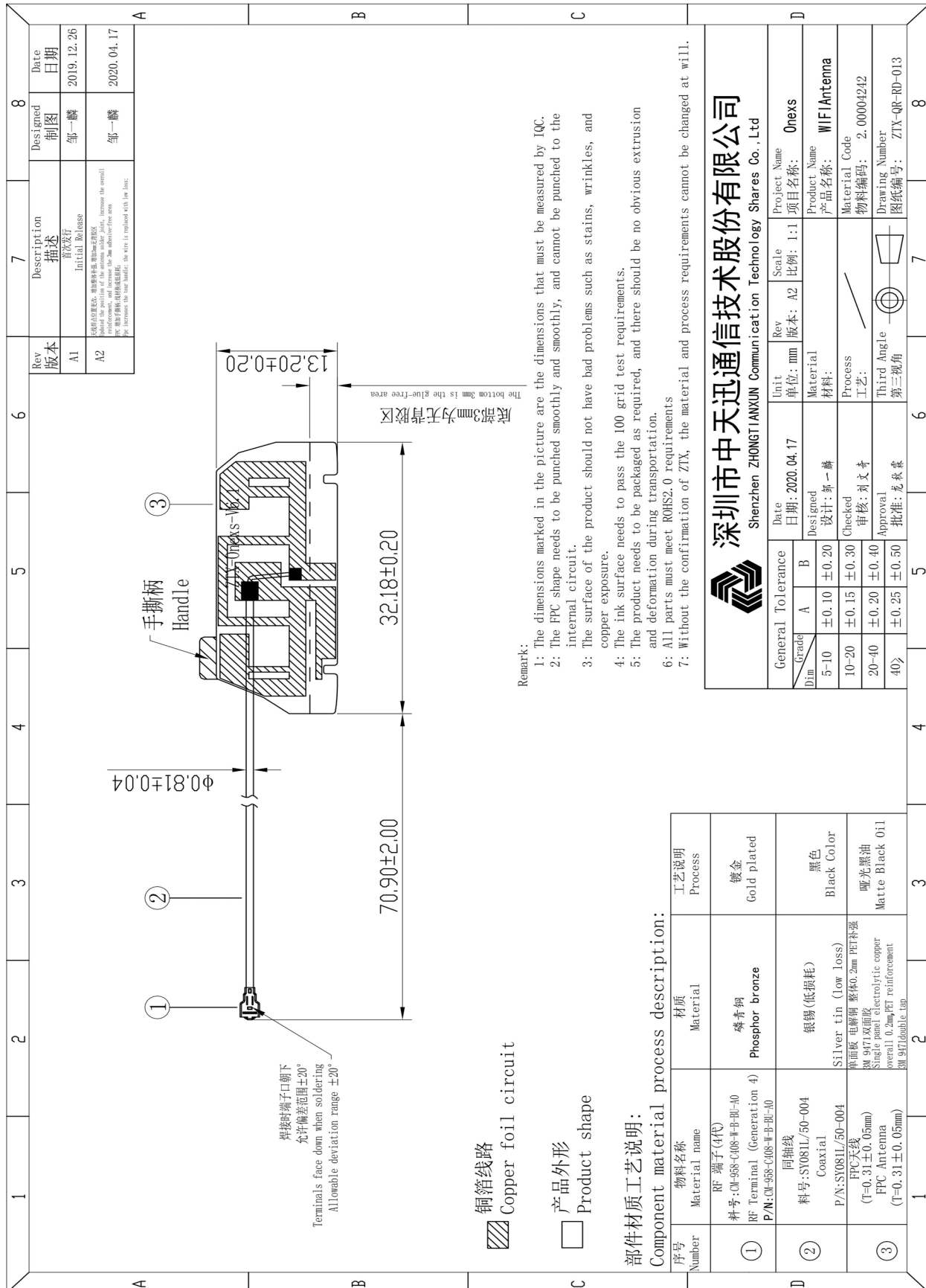
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI Antenna)



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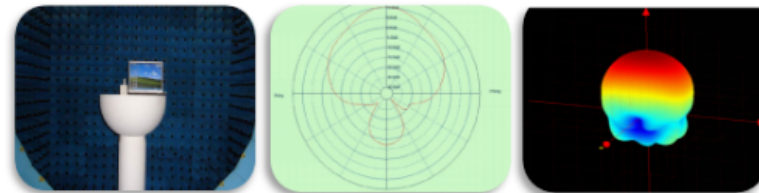
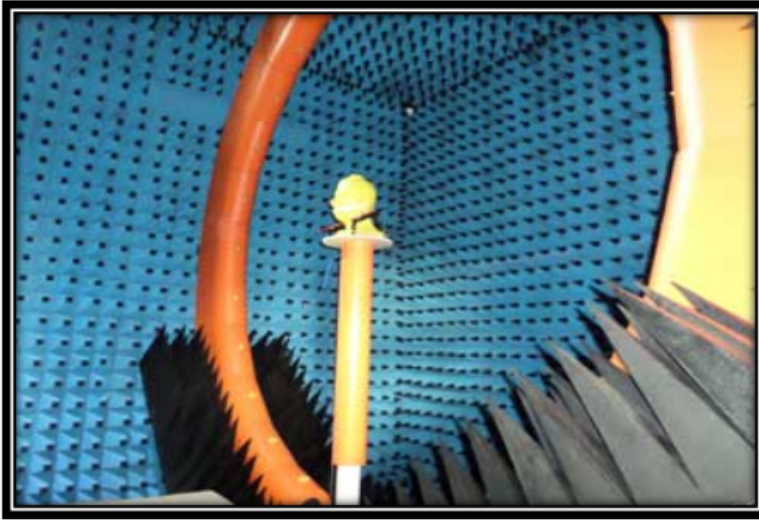
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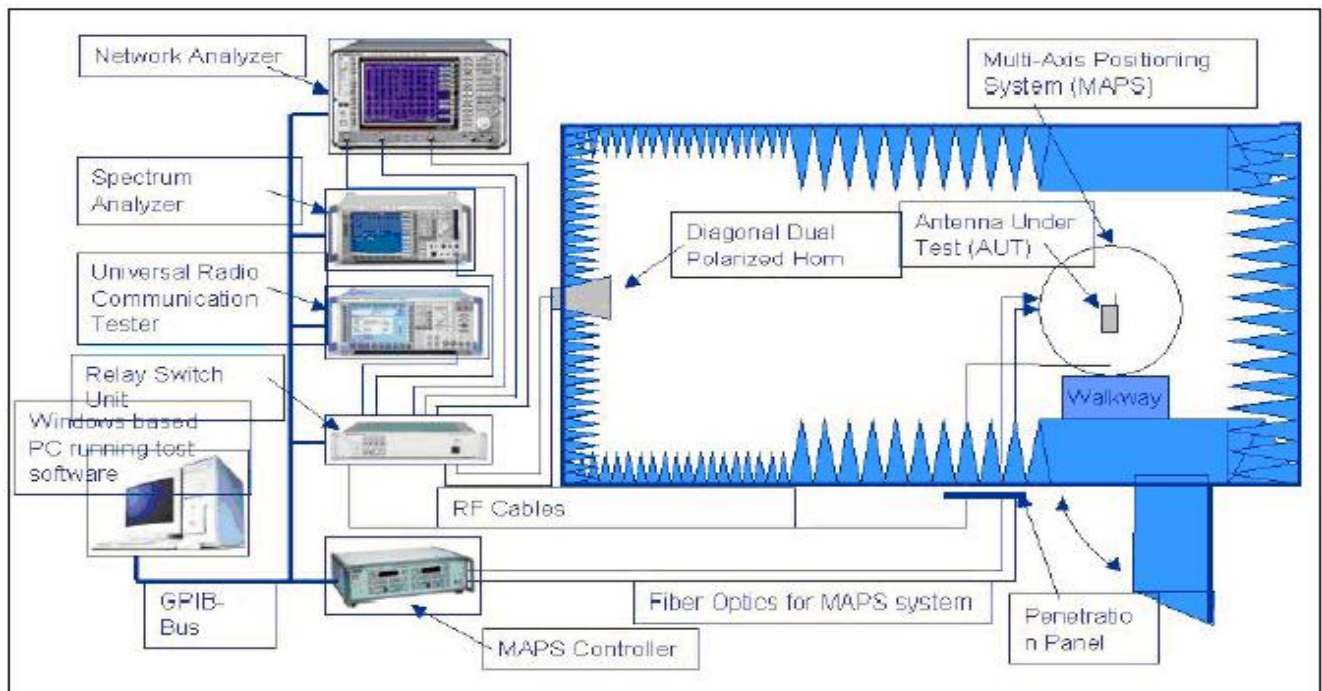
2. Test equipment



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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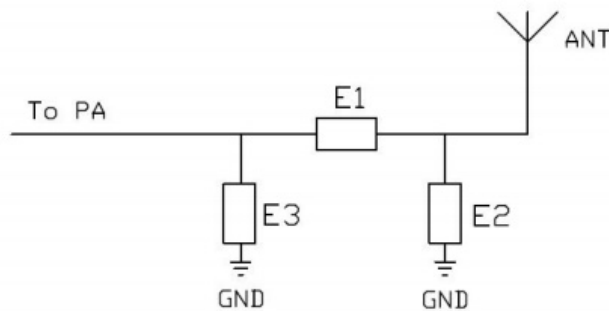
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3.Antenna test data 3-1 VSWR



3-2 Matching circuit



天线匹配	
E1	0Ω
E2	NC
E3	NC



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3-3 No-source test data

Frequency(MHz)	Efficiency(%)	Efficiency (dB)	Gain(dB)
2400	29%	-5.42	0.28
2410	27%	-5.63	0.27
2420	28%	-5.76	0.13
2430	29%	-5.42	0.38
2440	28%	-5.54	0.31
2450	28%	-5.48	0.38
2460	27%	-5.68	0.32
2470	29%	-5.33	0.75
2480	29%	-5.43	0.7
2490	28%	-5.47	0.76
2500	28%	-5.46	0.86
5150	36%	-4.38	2.13
5200	37%	-4.34	2.32
5250	38%	-4.21	1.72
5300	38%	-4.22	1.19
5350	39%	-4.11	1.01
5400	39%	-4.08	0.37
5450	40%	-3.97	0.7
5500	41%	-3.91	0.65
5550	39%	-4.05	0.96
5600	38%	-4.23	1.51
5650	36%	-4.38	1.39
5700	35%	-4.57	1.53
5750	34%	-4.63	1.31
5800	33%	-4.78	0.73
5850	33%	-4.82	0.94

3-4 Environment treatment

N/A



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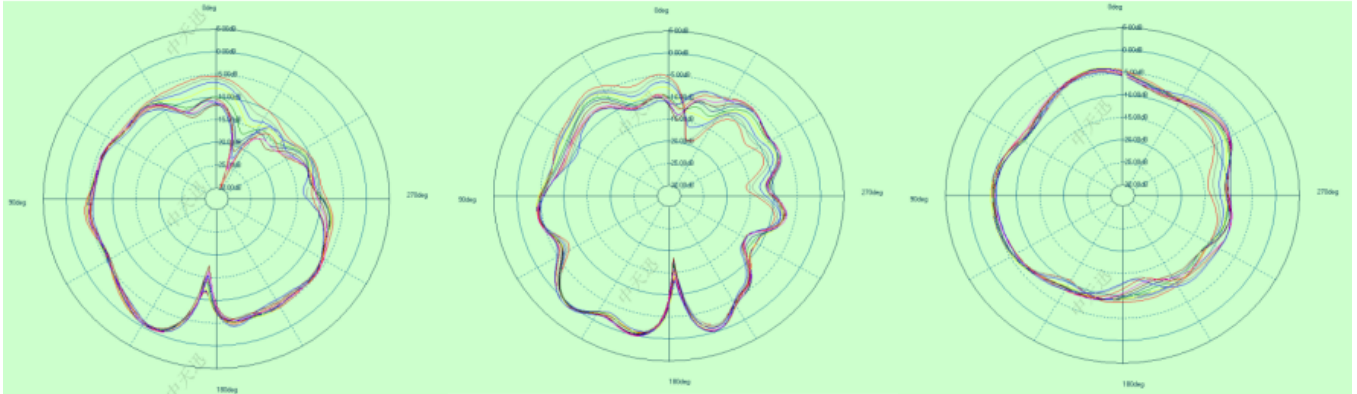
3-5 Directional drawing of horizontal plane of

2.4G

Phi 0° E1面 (XOZ)

Phi 90° E2面 (YOZ)

Theta 90° H面 (XOY)

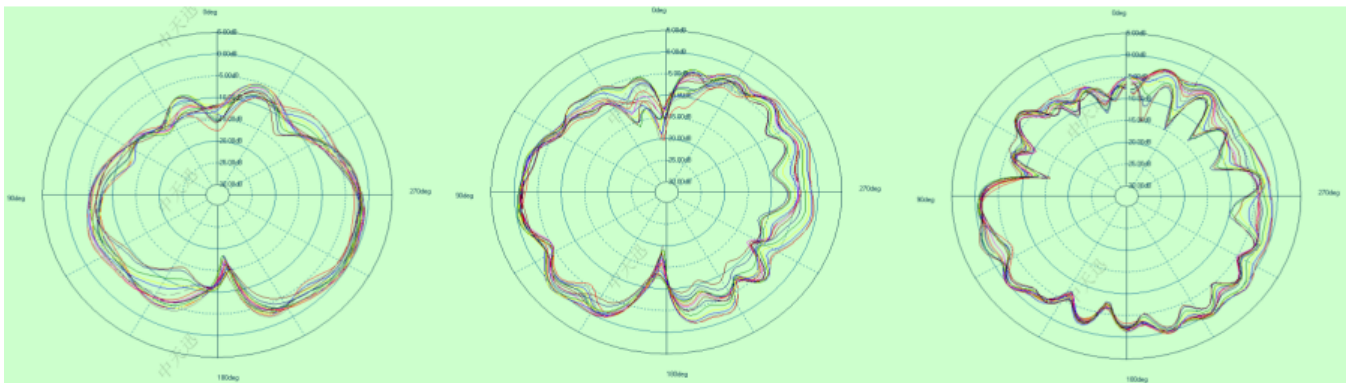


5G

Phi 0° E1面 (XOZ)

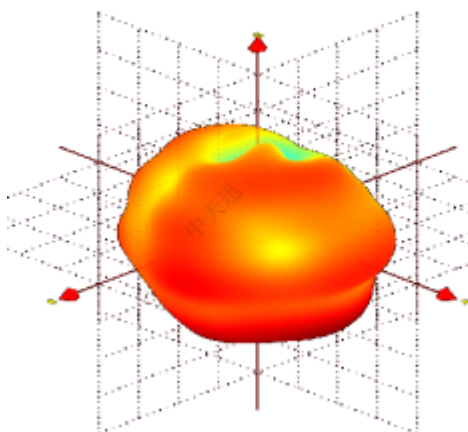
Phi 90° E2面 (YOZ)

Theta 90° H面 (XOY)

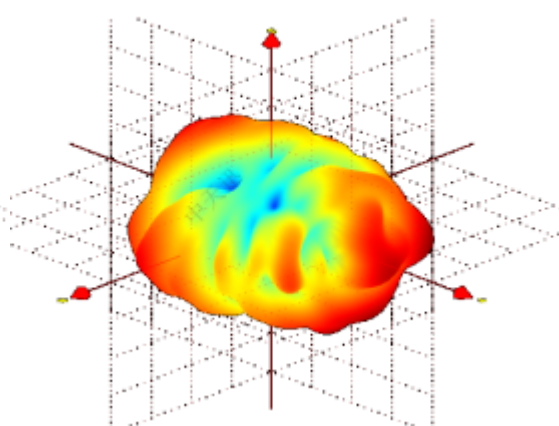


3-6 3D radiation drawing

2450MHz



5550MHz



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4. Test Report



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Sample test report

customer name	Arashi Vision Inc.	Project name	Onexs	Quantity	5 PCS								
Part Model	WIFI antenna	Customer number	Black	Date	2022/4/12								
Product type: ☐ new appearance product ☐ Product change shape ☒ IMP ☐ other													
NO	Dimensions required by drawings	Actual measurement										Result	note
		1	2	3	4	5	6	7	8	9	10		
1	32.18±0.20	32.20	32.20	32.21	32.19	32.31						OK	
2	13.20±0.20	13.21	13.20	13.21	13.21	13.20						OK	
3	Φ0.81±0.04	0.81	0.81	0.80	0.81	0.81						OK	
4	77.90±2.00	77.91	77.92	77.91	77.91	77.92						OK	
5													
6													
7													
8													
9													
10													
appearance:OK													
other:/													
Summary judgment: ☒ OK ☐ NG													
approval:AILINGYI Checked by:DENGSHANYANG operation: HONGMEIYUE													
备注:													

The form number:ZTX-QR-QA-016 version: A1



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ANTENNA SPECIFICATION

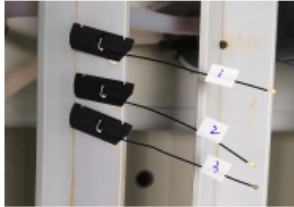
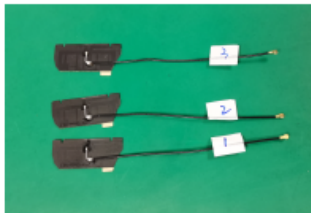
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ZTX-202204078

Test Report							
Product name	WIFI antenna	Part Model	Onexs	Ambient temperature	20±5℃	Date of test	2022/4/14 17:20start 2022/4/16 17:20end
Specimens quantity	3PCS	Customer number	S.ANTXSZ01	Relative humidity	50-60%RH	Client/Dept	Quality
Test reasons	☒ New type/material verification ☐ New process validation ☐ ORT test ☐ Expired materials ☐ Customer complaints/requests ☐ High defective rate ☐ other: _			Test documentation	☐ Product drawings ☐ Antenna reliability test benchmark ☒ Customer request ☐ Outgoing inspection datum ☐ other:		
Test project	Salt spray test						
Test condition	1. Place the product in the test chamber at 30 degrees ±5 degrees 2. Debug the parameters of the test chamber: NaCl (without water); Concentration of 5% plus or minus 1%; PH value: 6.5 ~ 7.2; Laboratory temperature: 32-38℃; Compressed air pressure :1.0±0.01 (KG/M2) Spray volume :1.0 ~ 2.0ML/80CM2/H. Relative humidity :85%±2%; Test product placement Angle :30 degrees +/-10 degrees. 3. Set time for 48 hours. 4. Place at room temperature for 2H for observation after cleaning.						
Test note	Requirements: No deformation, no discoloration, plating (coating) layer without falling off, no crack, no oxidation of metal parts and other adverse phenomena; The function and performance are normal.						
Test equipment	Device name	Equipment model	Check the date	Next check date			
	Constant temperature and humidity test	PTH-11-100FS	2022/4/27	2023/4/26			
Test picture	1.Sample picture before test			2.Test equipment			
							
Test picture	3.Test process parameters			4.Picture of sample inspection after test			
							
Test result	After the experiment, the antenna has no deformation, no discoloration, no peeling off, no crack, no oxidation of metal parts and other adverse phenomena; The function and performance are normal.						
Final result	☒ passed ☐ NG						
Comments):							
Approved by: AILINGYI		Checked by: DENGSHANYAGN		Name of operator: LIHUALI			

The form number: ZTX-QR-QA-076 2/5000



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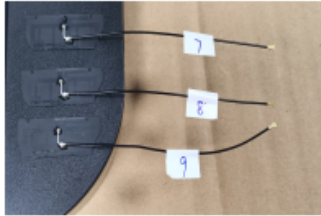
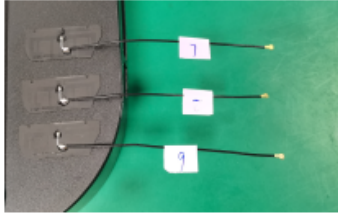
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ZTX-202204140

Test Report							
Product name	WIFI antenna	Part Model	Onexs	Ambient temperature	20±5℃	Date of test	2022/4/14 17:20start 2022/4/16 17:20end
Specimens quantity	3PCS	Customer number	S.ANTXSZ01	Relative humidity	50-60%RH	Client/Dept	Quality
Test reasons	☒ New type/material verification ☐ New process validation ☐ ORT test ☐ Expired materials ☐ Customer complaints/requests ☐ High defective rate ☐ Other: _			Test documentation	☐ Product drawings ☐ Antenna reliability test benchmark ☒ Customer request ☐ Outgoing inspection datum ☐ Other:		
Test project	High temperature and high humidity storage test						
Test condition	temperature: 70℃, humidity: 90%-95% time: 48H						
Test note	After the test, the appearance has no deformation, no discoloration, no warping, no shedding, and the functional performance is normal.						
Test equipment	Device name	Equipment model	Check the date	Next check date			
	Constant temperature and humidity test chamber	PTH-11-100FS	2022/4/27	2023/4/26			
Test picture	1.Sample picture before test			2.Test equipment			
							
Test picture	3.Test process parameters			4.Picture of sample inspection after test			
							
Test result	After the test, the appearance has no deformation, no discoloration, no warping, no shedding, and the functional performance is normal.						
Final result	☒ Passed ☐ NG						
Comments							
Approved by: AILINGYI		Checked by:		Name of operator: LIHUALI			

The form number: ZTX-QR-QA-076 2/5000



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ANTENNA SPECIFICATION

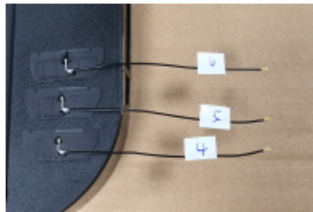
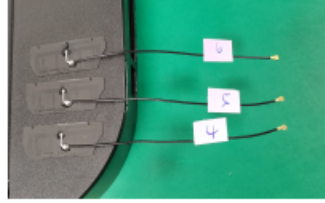
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ZTX-202204124

Test Report							
Product name	WIFI antenna	Part Model	Onexs	Ambient temperature	20±5℃	Date of test	2022/4/14 17:20start 2022/4/16 17:20end
Specimens quantity	3PCS	Customer number	S.ANTXSZ01	Relative humidity	50-60%RH	Client/Dept	Quality
Test reasons	☒ New type/material verification ☐ New process validation ☐ ORT test ☐ Expired materials ☐ Customer complaints/requests ☐ High defective rate ☐ other: _			Test documentation	☐ Product drawings ☐ Antenna reliability test benchmark ☒ Customer request ☐ Outgoing inspection datum ☐ other:		
Test project	Cryogenic storage test						
Test condition	temperature: -30℃, time:48H						
Test note	After the test, the appearance has no deformation, no discoloration, no warping, no shedding, and the functional performance is normal.						
Test equipment	Device name	Equipment model	Check the date	Next check date			
	Low temperature test chamber	DW-40	2022/4/27	2023/4/26			
Test picture	1.Sample picture before test			2.Test equipment			
							
Test picture	3.Test process parameters			4.Picture of sample inspection after test			
							
Test result	After the test, the appearance has no deformation, no discoloration, no warping, no shedding, and the functional performance is normal.						
Final result	☒ Passed ☐ NG						
Comments							
Approved by: AILINGYI		Checked by:		Name of operator: LIHUALI			

The form number: ZTX-QR-QA-076 2/5000



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5.Environment Characteristic

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



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6.The packing way

Packing			
Customer Model:	Onexs	product name:	WIFI Antenna
Product standard:	FPC+Cable	Packing materials	paper carton+PE bag
Packing quantity(PE bag)	1000PCS	Packing method:	Every 100PCS into open bags, 10 bags (1000PCS) into self-sealed bags and 10 large bags (10000PCS).
Packing quantity(carton)	10000PCS		
Figure 1: Single or other form of packagi		Figure 2: Multiple packages	
			
Figure 3: Enchase view		Figure 4: Affixing labels to external container	
			
备注: 1. Every 100PCS into open bags, 10 bags (1000PCS) into self-sealed bags and 10 large bags (10000PCS). 2. The shipment label shall be affixed to the outer container (the label content shall be subject to system printing),RoHS label and mantissa label shall be affixed to the last container.			
Fiction: Yuan Lin Hai		Check: Dang Fei Fei	

