



Shenzhen Xingtong Wireless Technology Co., Ltd
Telephone: +86-755- 27850514 Fax: +86- 0755-27850514
Address: 3/F, Building A1, Qiangrongdong Industrial Zone,
Jiuwei, Xixiang, Baoan District, Shenzhen

Product specification

Project Name: XT-20241120-V0.1

Product Name: UR880 WiFi Antenna

Product part number:

Producer	Audit	Date
Huangjiajun	Wu Yanlong	2024-11-20

Customer confirmation:

Customer name: Shenzhen Bono Technology Co., Ltd
Approval :
Date :
Notes :

Please accept your signature and seal and return one copy to our company for filing. Thank you for your cooperation!

 Shenzhen Xingtong Wieress Technology Co., Ltd		Date	2024-11-20
		Version	A0
		File number	XT-YF-004
Product model	UR880-WIFI	Product number	UR880-APP-RA

1.Product Constrution

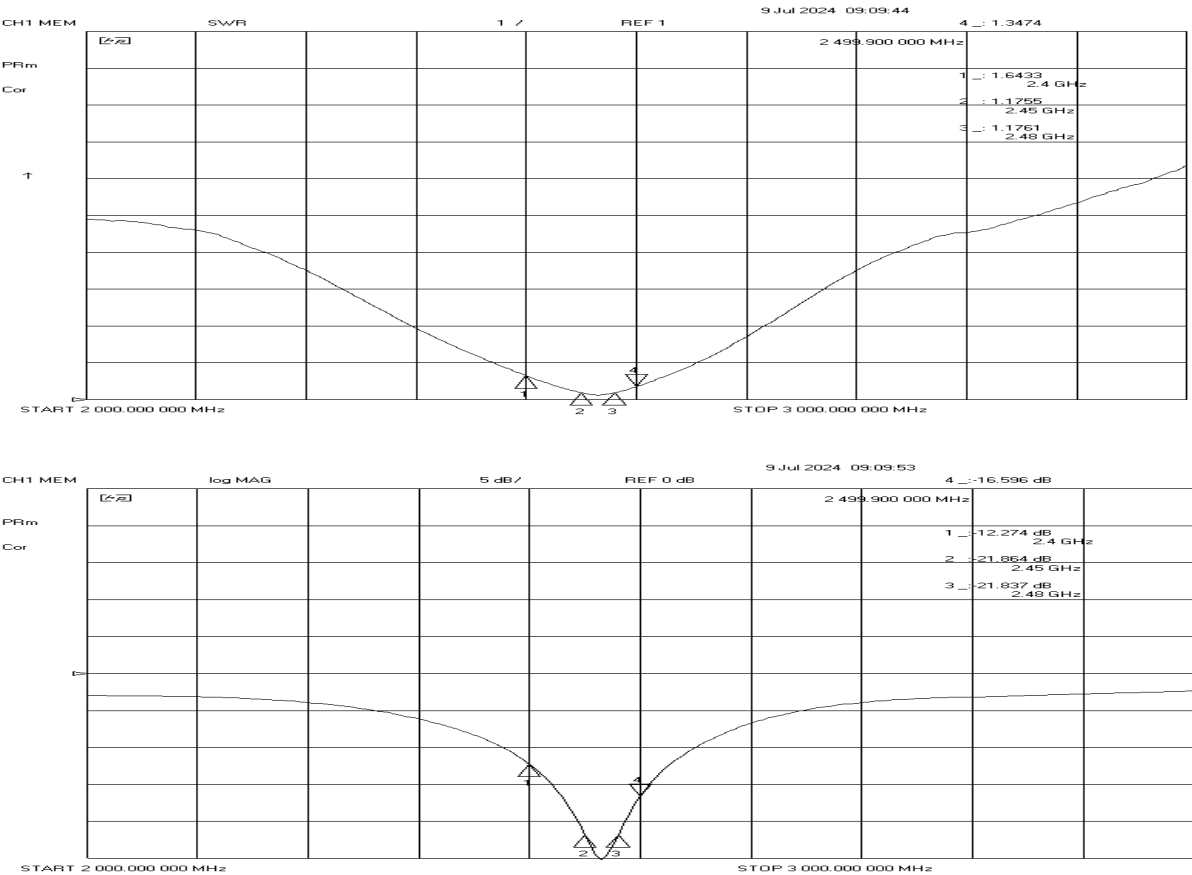
- 1.Antenna material: FPC
- 2.Adhesive model: 3M300LE
- 3.Antenna size: 24.4 *13 (tolerance $\pm 0.2\text{mm}$)
- 4.Antenna form: FPC+IPEX (RF coaxial line $\varnothing 1.13 \varnothing 40\text{mm}$ -1 generation)

2.Parameter index

- Scope of use: Customer supplied machines
- Antenna frequency: 2400-2484MHz
- Antenna type: Unipolar coupling
- Free space average gain of antenna tablet end: 2.4G $\geq 1.5\text{dbi}$
- Antenna standing wave: $< 1.17\text{DBm}$
- Return loss: $<-21.85\text{DB}$
- Antenna polarization mode: vertical/horizontal
- Power capacity: 5W
- Installation method: Connect the IPEX terminal wire to the motherboard

3.Antenna S11 value

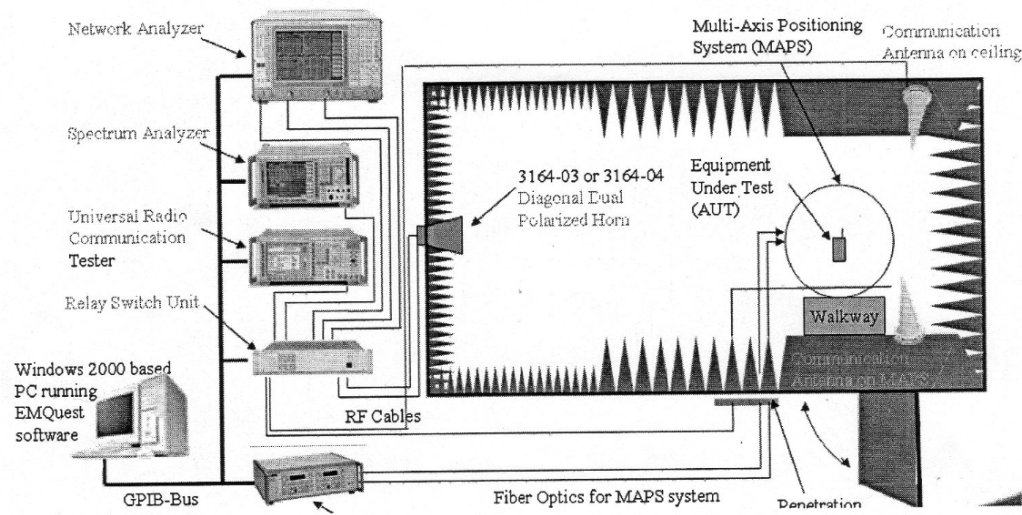
- 3.1: Antenna standing wave ratio/return loss value



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4. Antenna performance (OTA)

- 4.1: Antenna efficiency gain (testing instruments: network analyzer, oscilloscope, customer supplied engineering prototype, various standard cards, etc.)



■ 4.2-OTA

2. 4G-2D

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-3.78	-3.83	-3.65	-3.69	-3.94	-3.61	-3.68	-3.90	-3.53	-3.68	-3.79
Gain (dBi)	1.70	1.79	1.82	1.81	1.64	1.83	1.71	1.73	1.57	1.65	1.62
Efficiency (%)	41.85	41.42	43.12	42.77	40.36	43.58	42.84	40.76	44.38	42.82	41.79
Directivity (dB)	4.69	4.77	4.68	4.50	4.49	4.64	4.79	4.93	5.10	5.33	5.41
Peak Gain Position (Theta)	90.00	90.00	90.00	90.00	90.00	60.00	60.00	60.00	60.00	60.00	75.00
Peak Gain Position (Phi)	120.00	120.00	120.00	120.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00
Efficiency ThetaPol (%)	14.63	14.48	15.23	15.37	14.34	15.10	14.64	13.93	15.06	14.31	14.09
Efficiency PhiPol (%)	27.22	26.94	27.89	27.40	26.02	28.48	28.20	26.84	29.32	28.51	27.70
Upper Hem. Efficiency (%)	23.93	23.50	24.16	23.62	22.02	23.58	23.10	22.00	23.97	23.15	22.52
Lower Hem. Efficiency (%)	17.92	17.92	18.96	19.15	18.34	19.99	19.74	18.76	20.42	19.67	19.27



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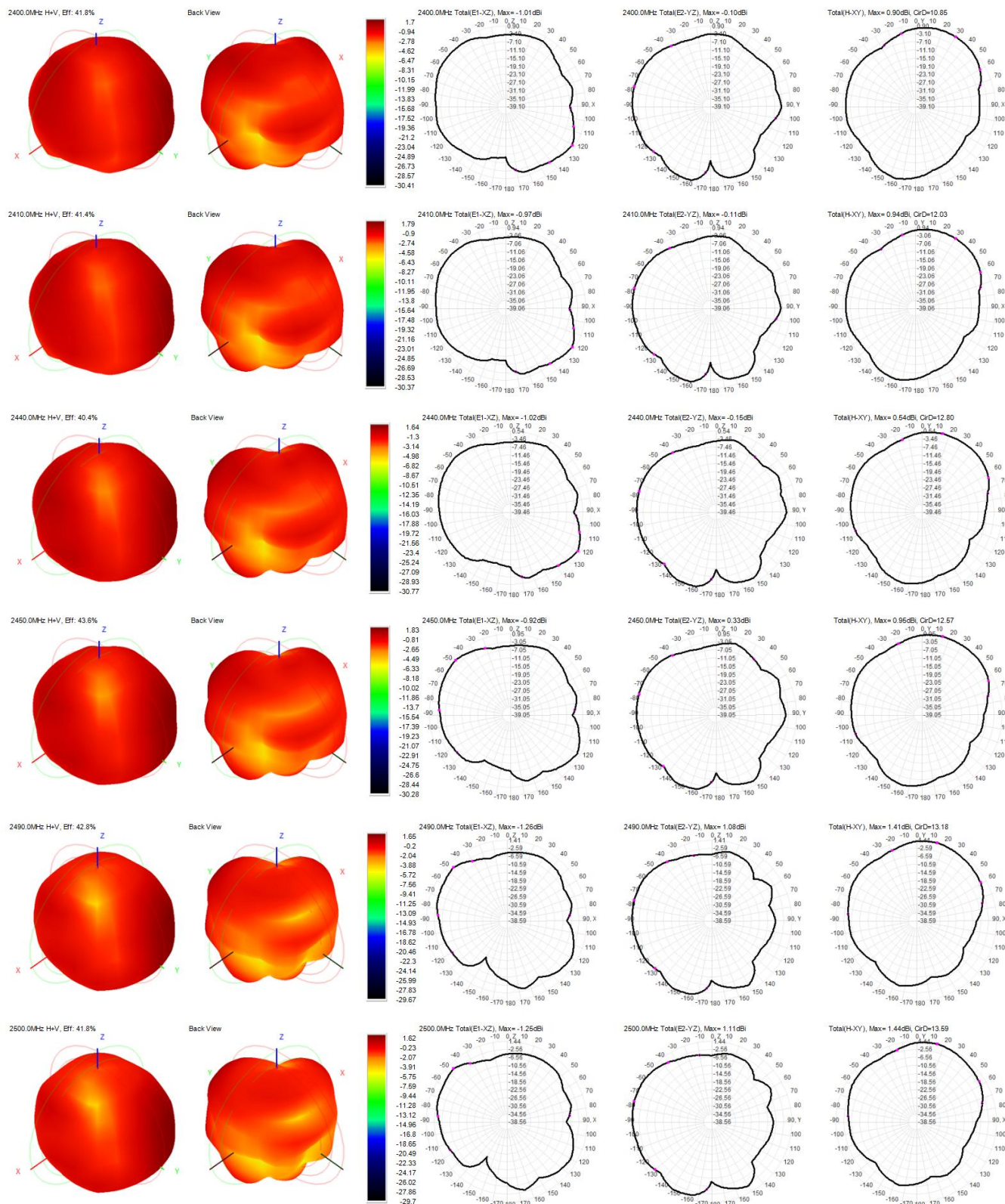
Product model

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Product
number

UR880-APP-RA

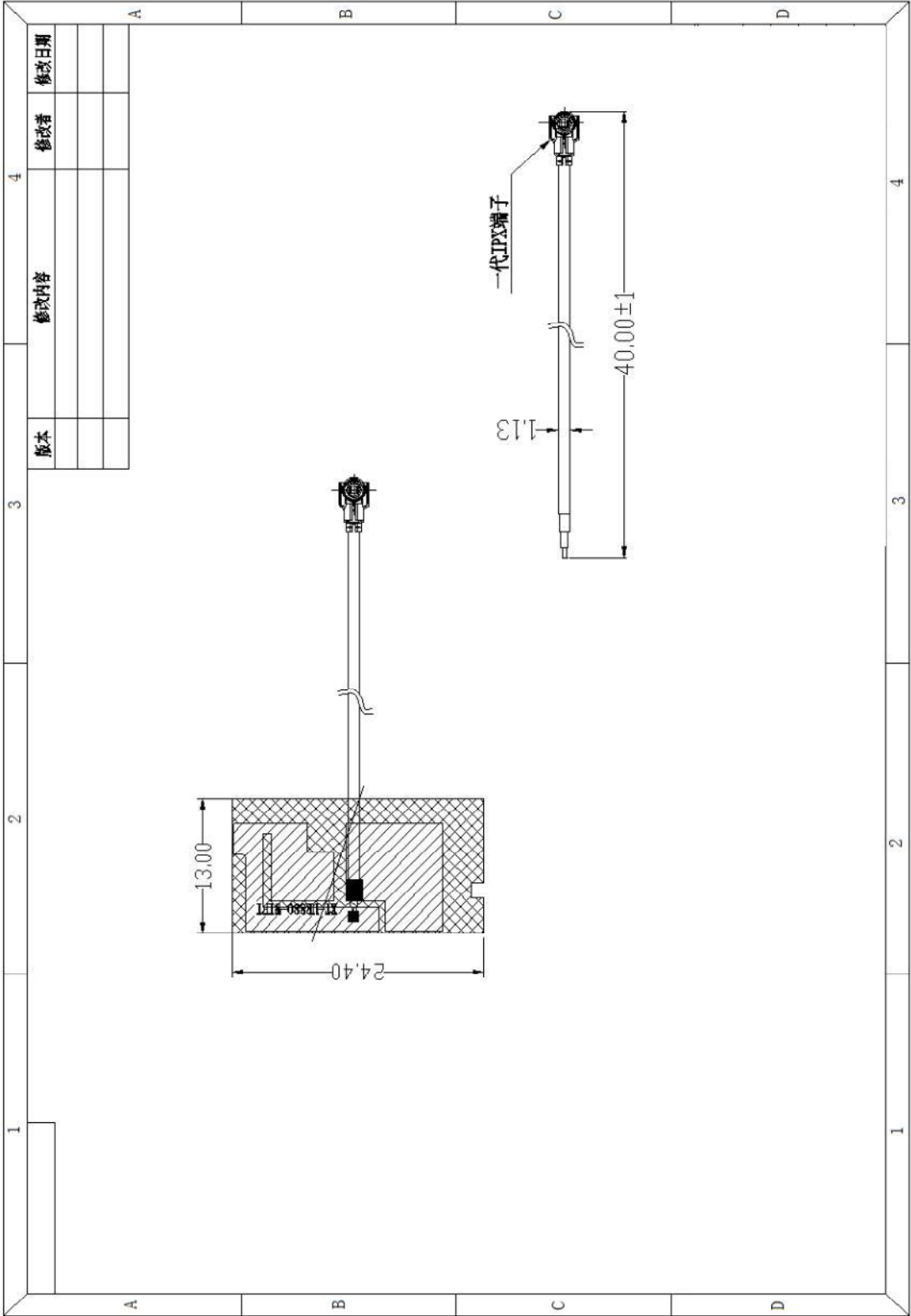
4.2.3-2. 4G-3D



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5. Attached image:

■ 5.1: Antenna finished product diagram



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6. 维 Maintenance verification:

Tests/test items	Maintainability	Inspection order number
Product name/specification	UR880-FPC antenna	Test quantity: 5PCS
Submission date: 2024-11-20		Completion date: 2024-11-20

Test/inspection equipment:
1. The tensile tester tests 5 times. (The tester is shown in the figure)



Note: Uniform speed test is required, not extreme speed test.

Projects Condition	Maintaining force between terminal and cable ≥ 0.6kgf.				
Test times	1	2	3	4	5
test result	0.6	0.7	0.7	0.9	0.7

Test/inspection result: acceptable

Test/inspection judgment: ☒ Qualified ☐ Unqualified ☐ Make no judgment

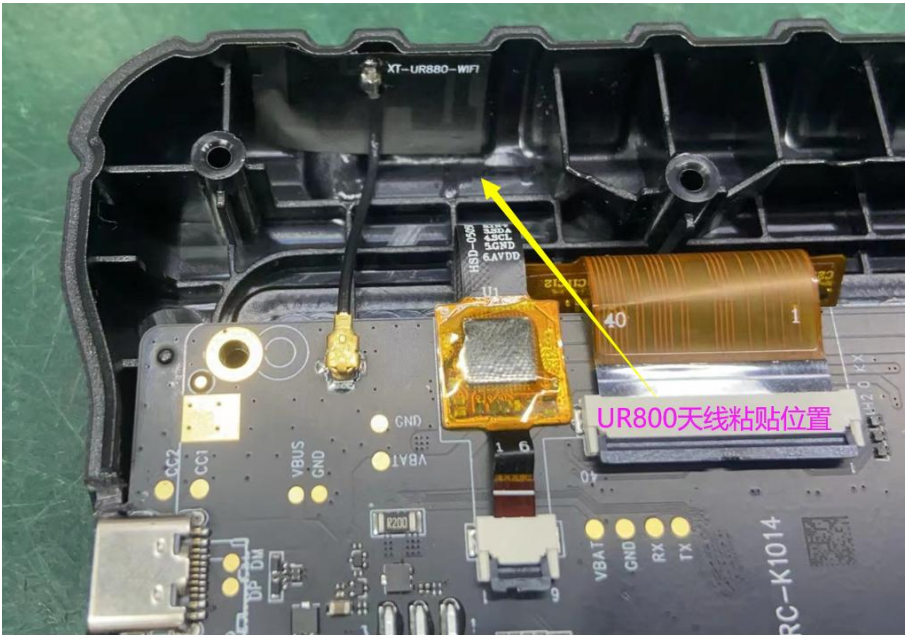
Test: Zhu Yongjian Audit: Wu Yanlong

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7. Reliability test:

Serialnumbe	test item	Test requirements	testing tool	test result
1	Resistance to tin melting	288℃, 10S, no delamination, no foaming	Tin furnace	0k
2	weldability	245℃, 5s, smooth tin surface, solder	Tin furnace	0k
3	Pulling force	N/A	tautness meter	0k
4	Reverse pulling	N/A	tautness meter	0k
5	Peel strength	≥0.35kg/cm	peel	0k
6	Peel strength (conner foil)	≥0.8kg/cm	peel strength	0k
7	Hot melt	0.1~0.15	/	0k

8. Precautions:



After opening, please carefully check if the item is intact. If there is any damage, please contact us immediately.