

Shenzhen HaiRuiHong Technology Co.,Ltd.

Antenna specification

Shenzhen HaiRuiHong Technology Co., Ltd.

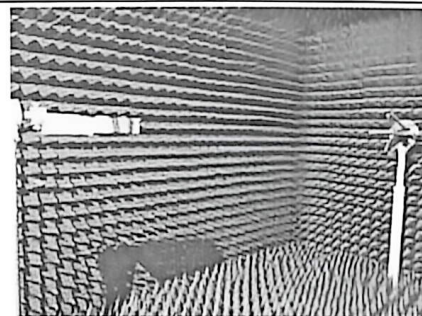
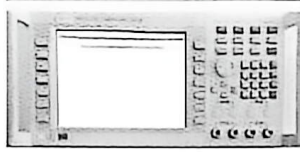
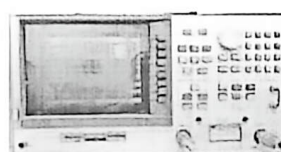
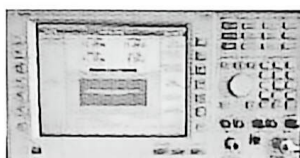
Customer name: Shenzhen yannuoda technology co., ltd

Project name	A7	Antenna frequency band	2. 4GHz-2. 5GHz 5. 1GHz-5. 8GHz
Specification description	☐ Support+shrapnel	☐ Single shrapnel	☐ Bracket +FPC+ thimble
	☒ FPC	☐ FM Antenna	☐ GPS Antenna
	☐ 其它		
	☒ coaxial-line	☒ WIFI Antenna : ☒ FPC+Wire. 2nd generation terminal 0.81 with a total length of 80mm. ☒ material code: WF003A-2-80-Z	
Customer confirmation			

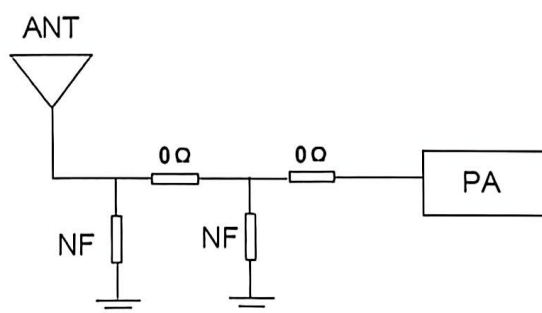
Supplier confirmation	Radio frequency confirmation	Structural confirmation	check
	<i>ManuZui</i>	<i>CC</i>	<i>ManuZui</i>
contacts	<i>ManuZui</i>	mobile phone	18824399281
telephone	0755-27920805	facsimile	0755-27920806
mailbox	szrf_antenna@163.com		
Address: B703A Fuxin Building, Houting Second Industrial Zone, Shajing Sub-district Office, Bao 'an District, Shenzhen			

1. Test items and equipment

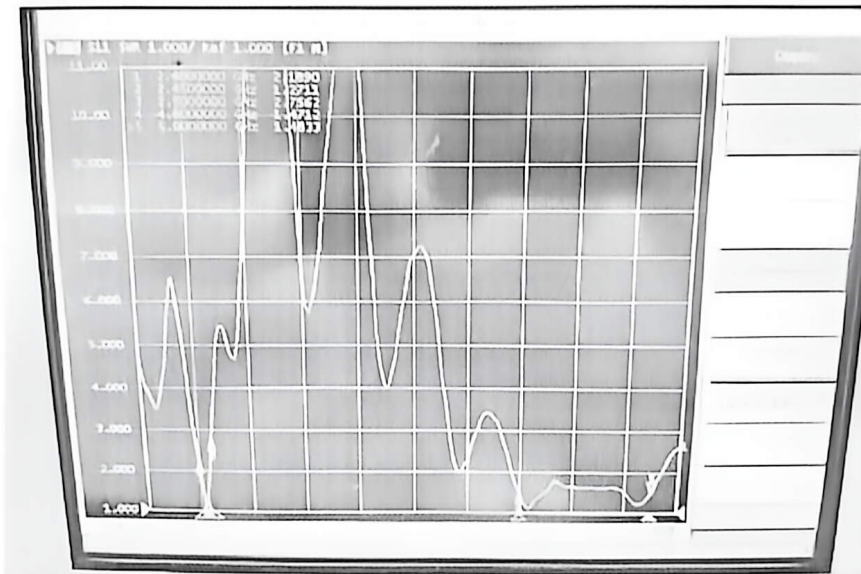
	test item	equipment
1.S11 paramete (S-parameter)	1. return loss (Return Loss) 2. voltage standing wave ratio (VSWR)	network analyzer: Agilent E5071B HP 8753D
2. Active testing (Active)	1. Transmit power (TRP) 2. receiving sensitivity (TIS)	1. darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Comprehensive tester: Agilent 8960 E5515B ×2 StarPoint SP6011
3.Passive testing (Passive)	1. Antenna Gain (gain) 2. Antenna Efficiency (Efficiency)	1. darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive tester: Agilent E5071B HP 8753D



2: matching circuit:



3: VSWR:



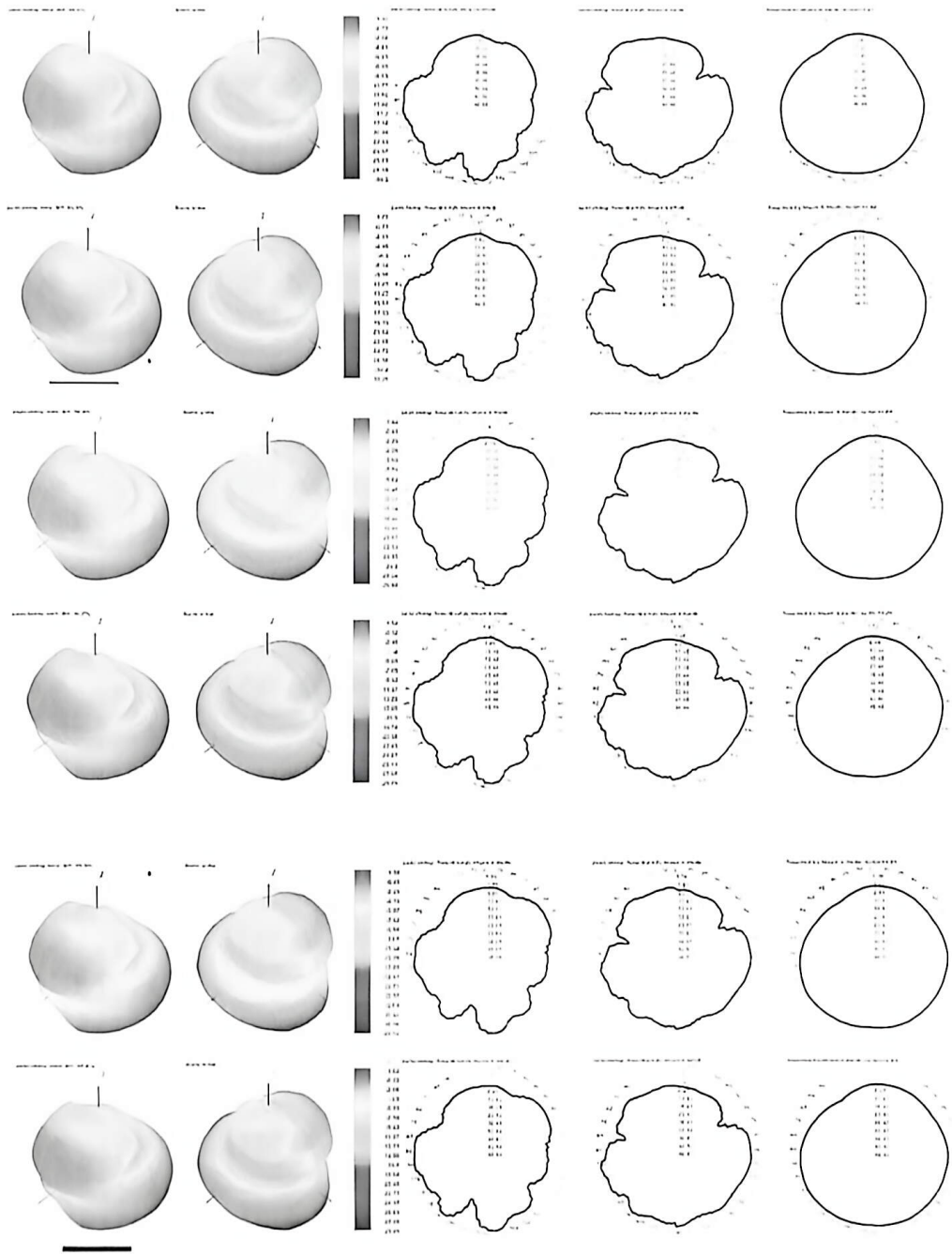
2.4G WIFI Efficiency and gain:

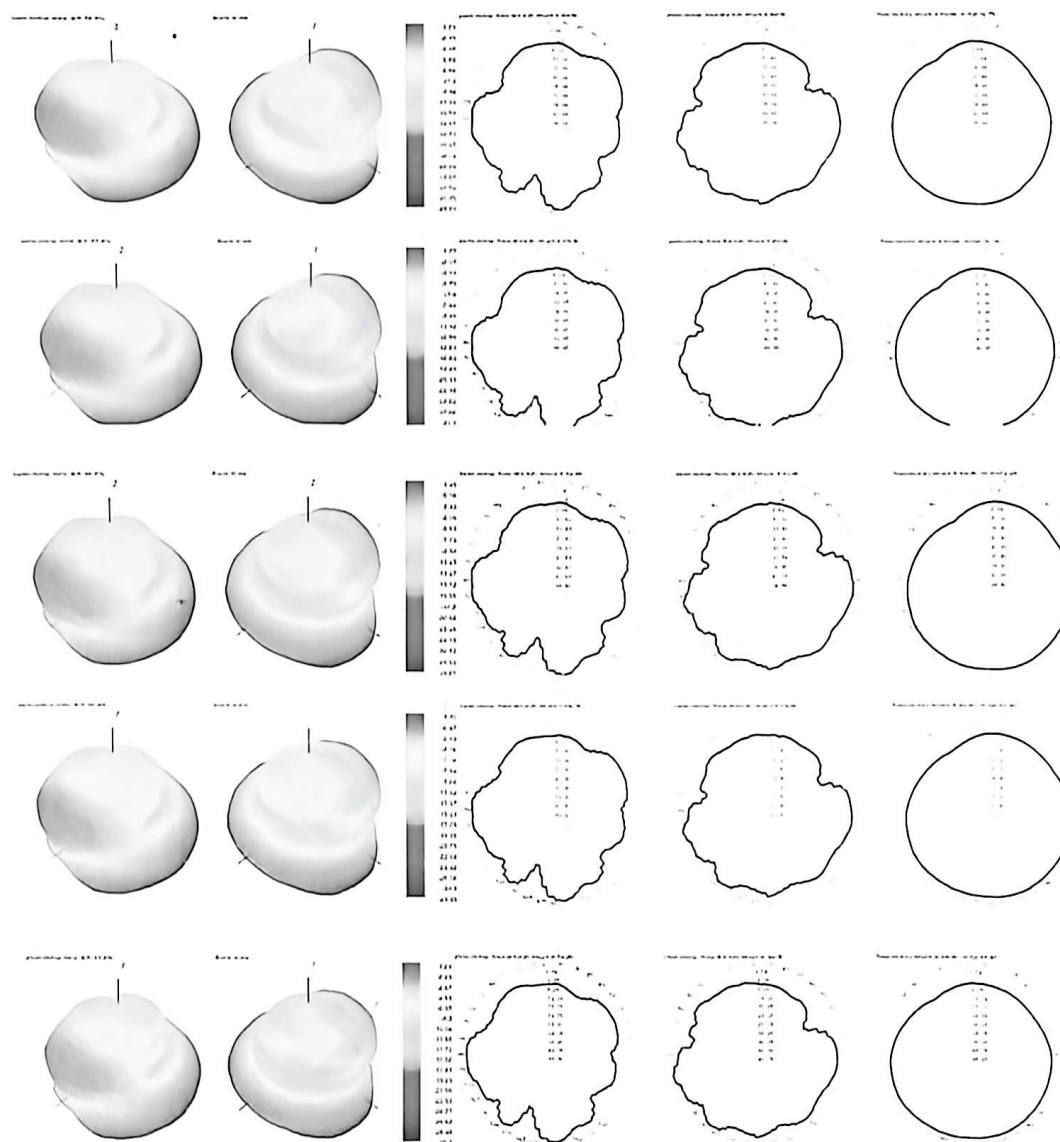
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-4.56	-4.50	-4.38	-4.47	-4.45	-4.27	-4.20	-4.22	-4.21	-4.16	-4.71
Gain (dBi)	1.12	1.07	1.44	1.52	1.39	1.62	1.71	1.77	1.46	1.37	1.01
Efficiency (%)	34.98	35.48	36.44	35.74	35.91	37.43	38.05	37.83	37.97	38.36	33.80
Directivity (dB)	5.68	5.57	5.82	5.99	5.84	5.89	5.91	5.99	5.67	5.53	5.73

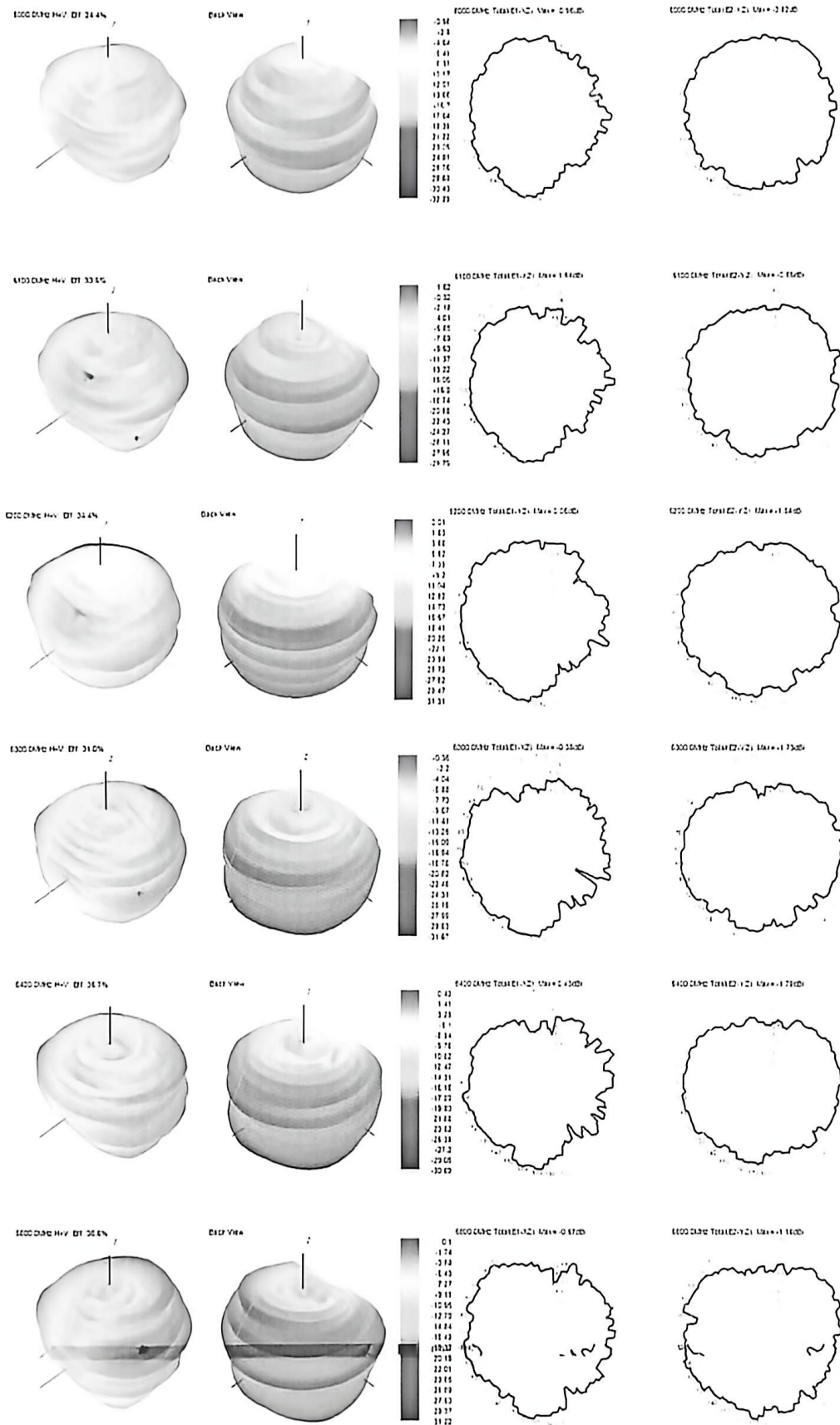
5G WIFI Efficiency and gain

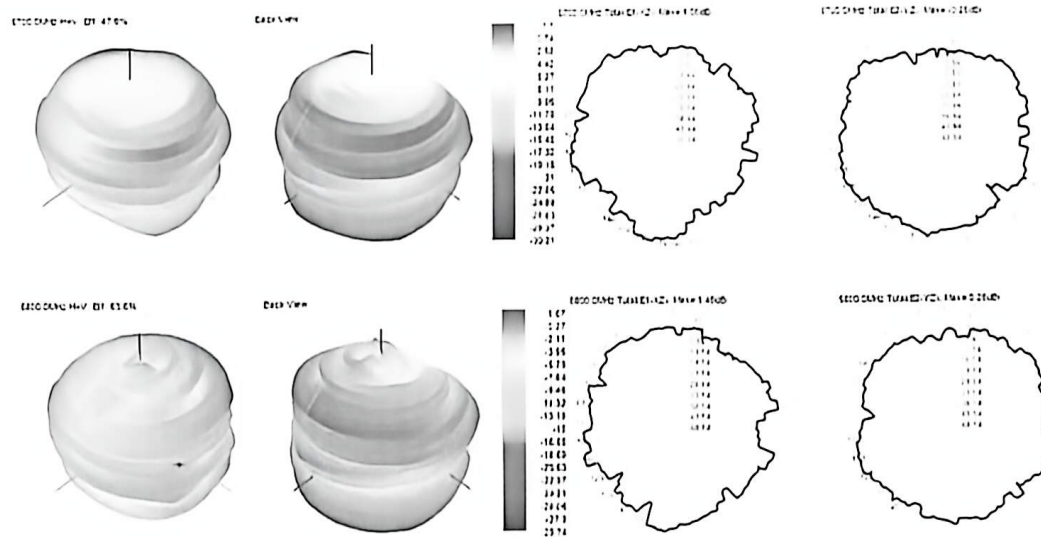
Freq (MHz)	Effi (%)	Gain (dBi)
5100	32.74	-0.17
5200	32.34	-0.14
5300	33.61	-0.16
5400	33.81	-0.18
5450	33.64	0.57
5500	34.37	0.11
5550	35.71	0.43
5600	38.74	0.07
5650	37.96	0.36
5700	47.79	1.01
5750	43.56	1.31

5800	42.56	1.07
5850	41.74	0.68









110	50	100	1000

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