Shenzhen HaiRuiHong Technology Co.,Ltd.

Antenna specification

Shenzhen HaiRuiHong Technology Co.,Ltd.

Customer name: Shenzhen yannuoda technology co., ltd

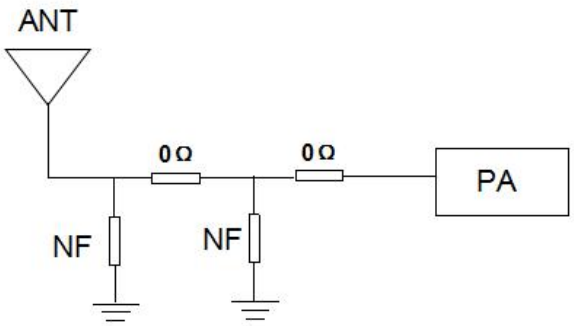
Project name	A7	Antenna frequency band	2.4GHz-2.5GHz
Specification description	☐Support+shrapnel	☐Single shrapnel	☐Bracket +FPC+ thimble
	■FPC	☐FM Antenna	☐GPS Antenna
	☐其它		
	☑coaxial-line	☑WIFI Antenna: ☑FPC+Wire: 2nd generation terminal 0.81 with a total length of 50mm. ☑material code：WF003A-2-50-Z	
Customer confirmation			

Supplier confirmation	Radio frequency confirmation	Structural confirmation	check
	Mamurui	Chen Cui	Mamurui
contacts	Mamurui	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

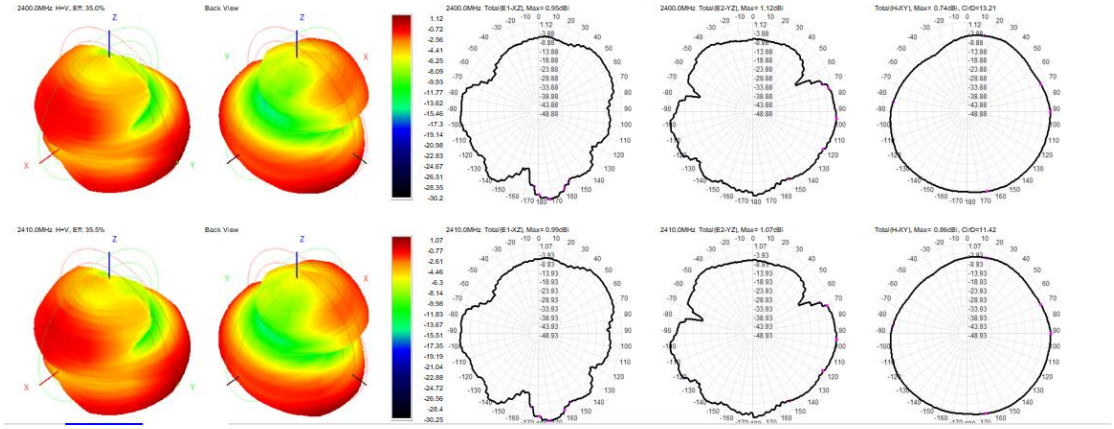
2：matching circuit：

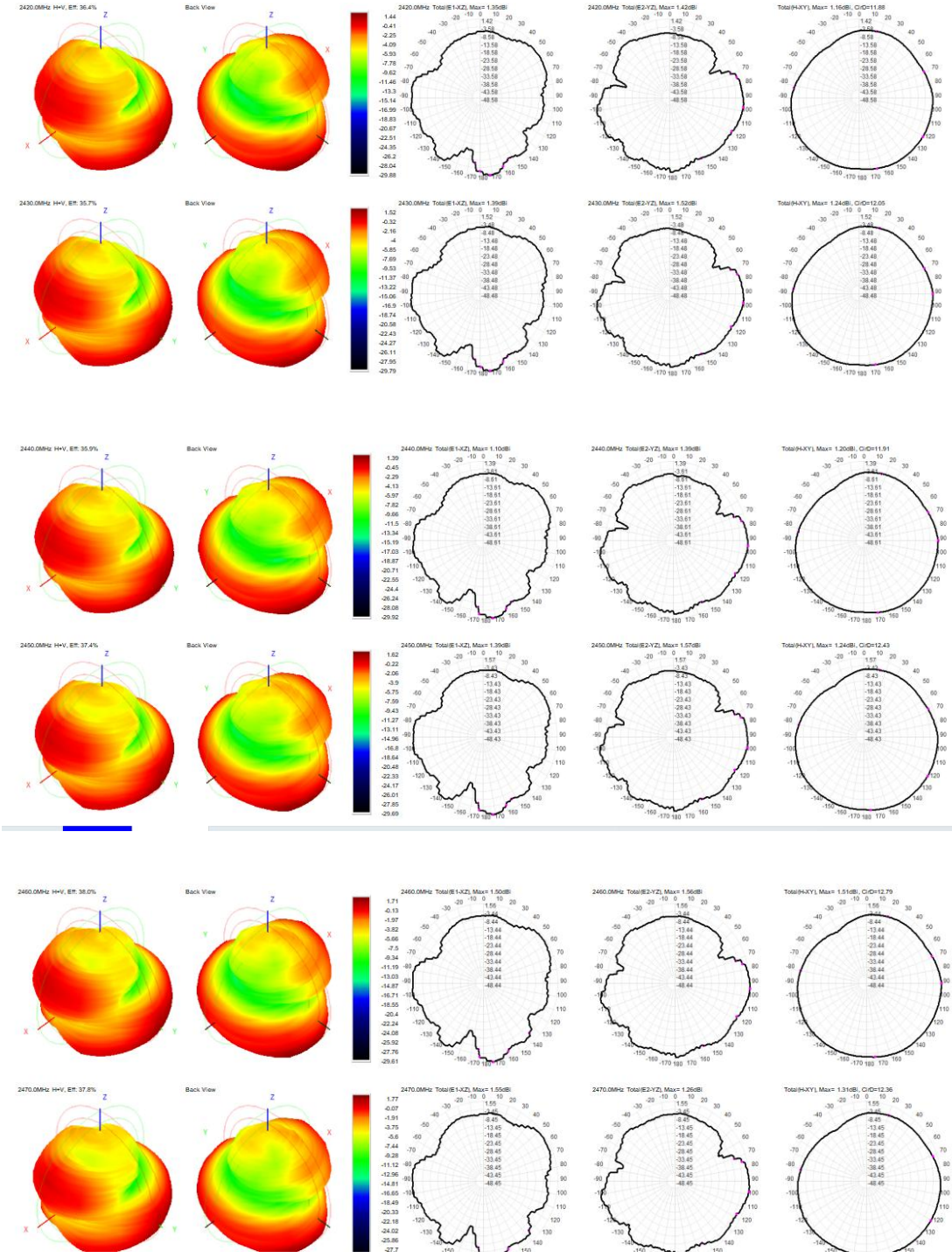


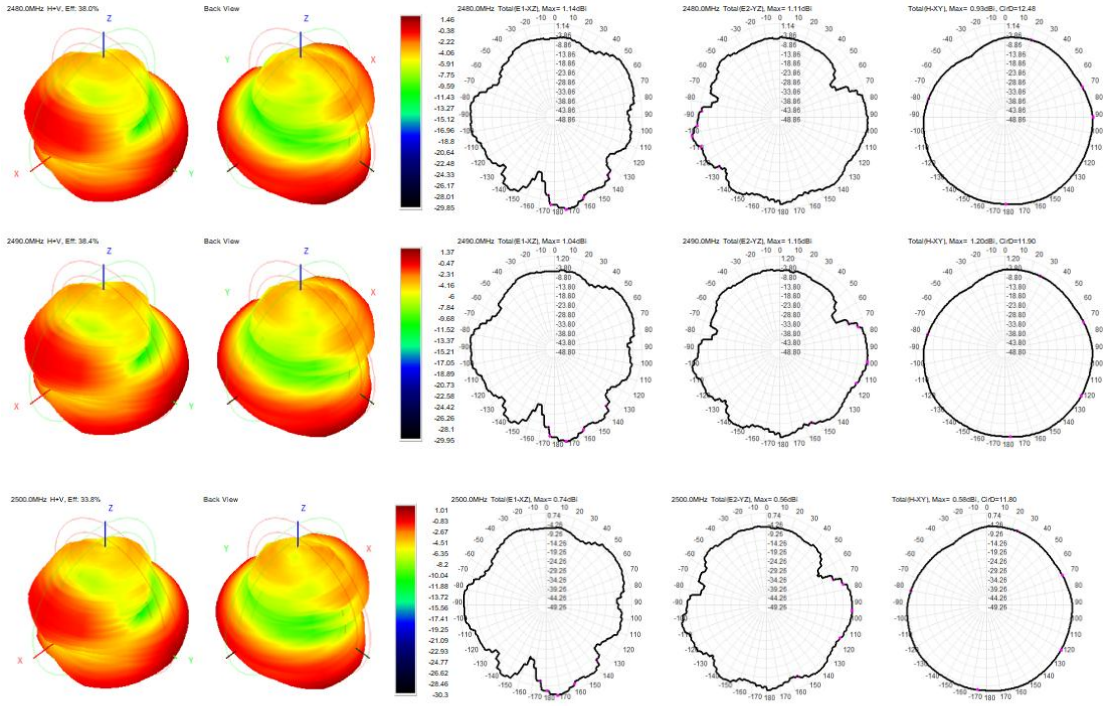
3：VSWR：

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







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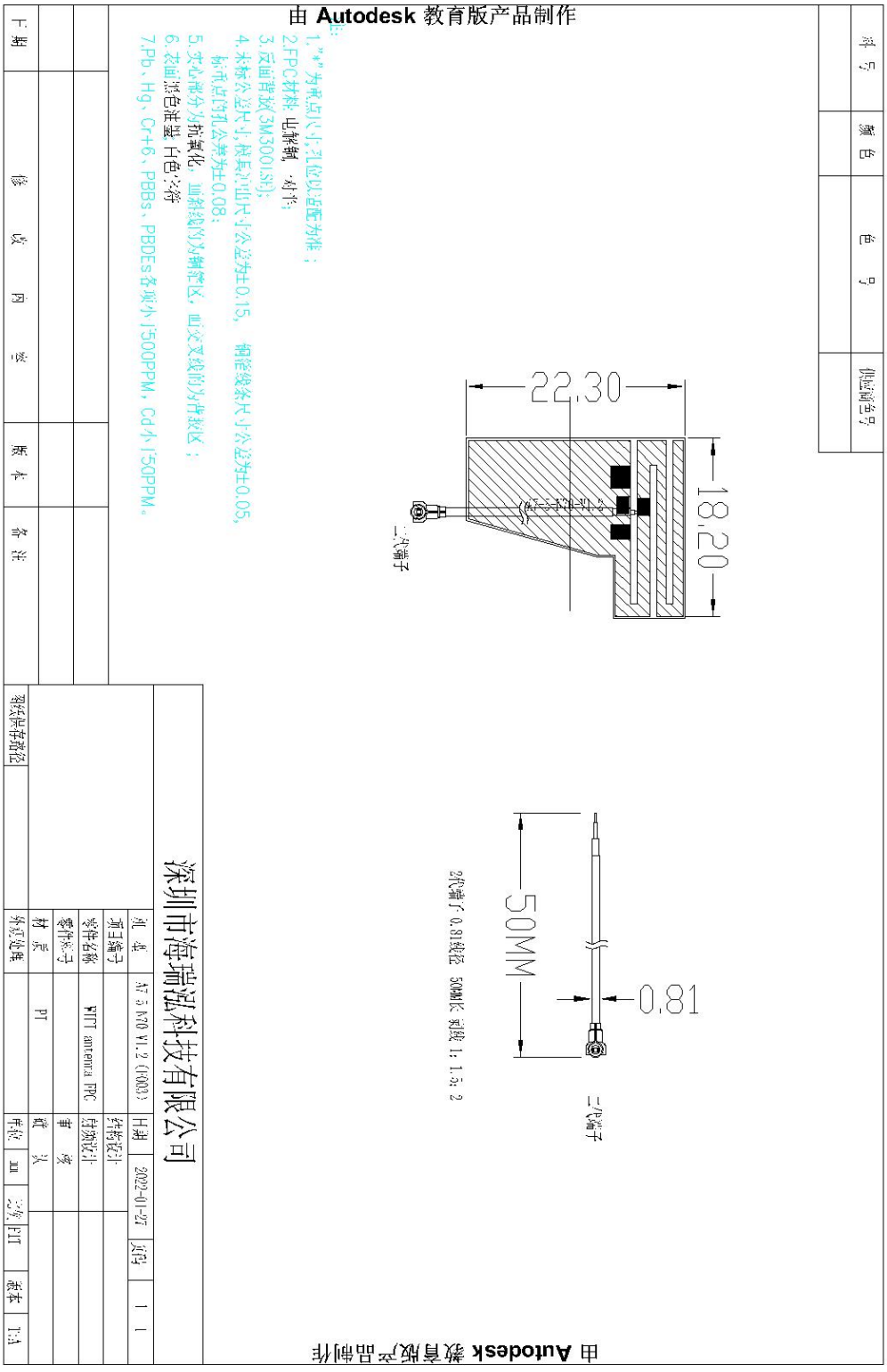
4:structural drawings：



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