

承认书

SPECIFICATION FOR APPROVAL

CUSTOMER NAME:

XM

PRODUCT NAME: 2.4G-built-in
antenna

CUSTOMER P/N:

UB P/N: UB01NJ3D668A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2019/08/20	

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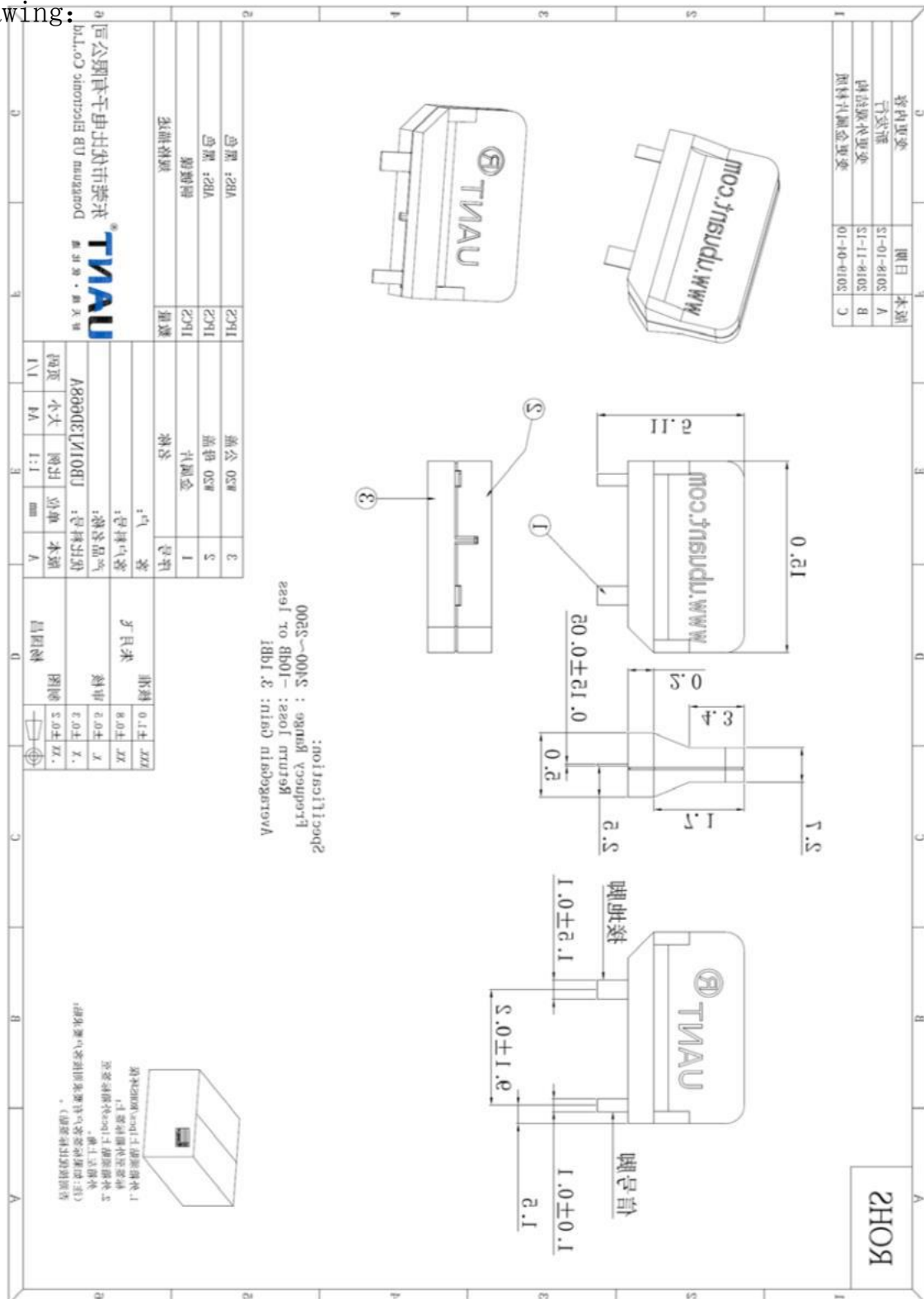
Antenna installation

1.

Specificatio

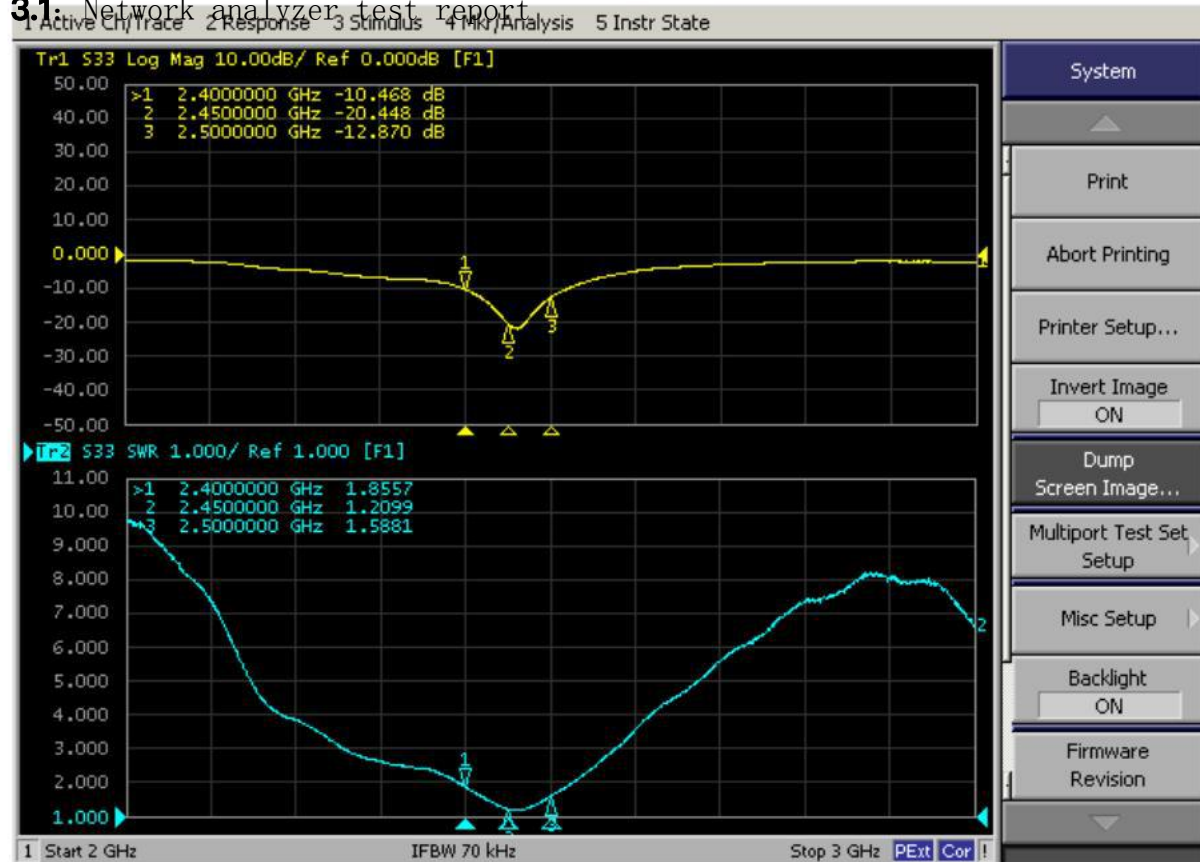
n:

		Main technical specifications	
		Frequency Range (MHZ)	2400~2500
		Impedance(Ω)	50
		Gain(dBi)	3.4
		VSWR	≤1. 92
		Admitted Power	10W
		Polarization	Line,Vertical
		Connector Type	DIP
		Physical Properties	
		Operating Temp	-20℃~+50℃
		Storage Temp	-20℃~+50℃



3. Test Report of Antenna Matching Complete Machine (only for debug sample testing date)

3.1. Network analyzer test report



3.2: Dark room 2D、3DRaditation Pattern(finished produce date)

3.2-1 Efficiency

and gain

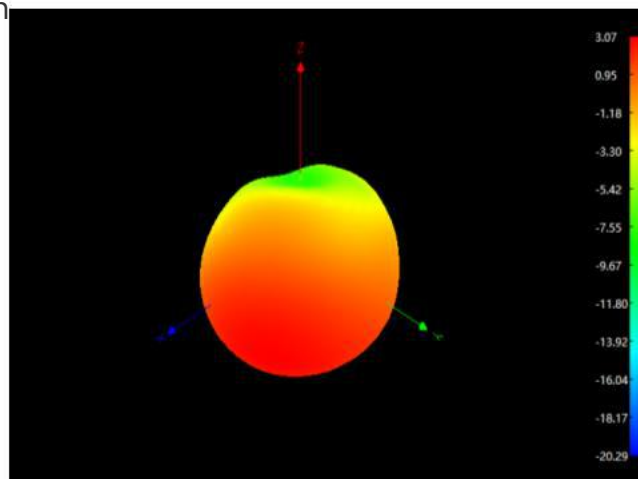
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-3.15	48.42	3.07
2410	-3.06	49.43	3.03
2420	-2.81	52.36	2.85
2430	-2.67	54.08	2.97
2440	-2.61	54.83	3.22
2450	-2.61	54.83	3.11
2460	-2.71	53.58	3.07
2470	-2.84	52	3.23
2480	-2.8	52.48	3.24
2490	-2.79	52.6	3.3
2500	-2.66	54.2	3.4

3.2-2 2D/3D Field

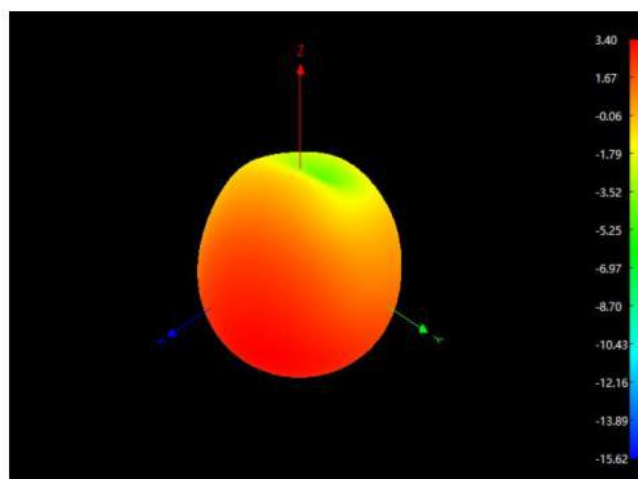
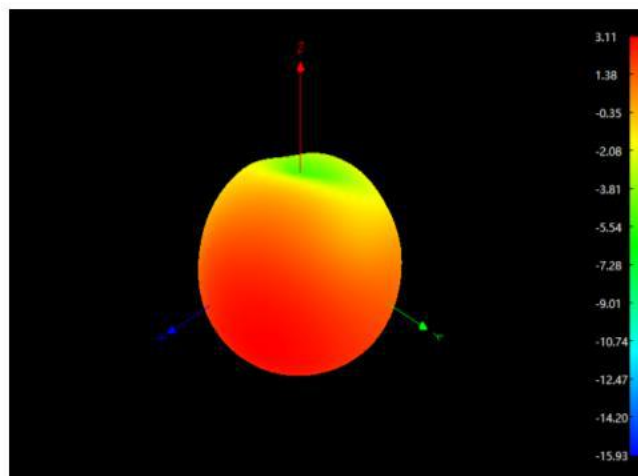
pattern diagram

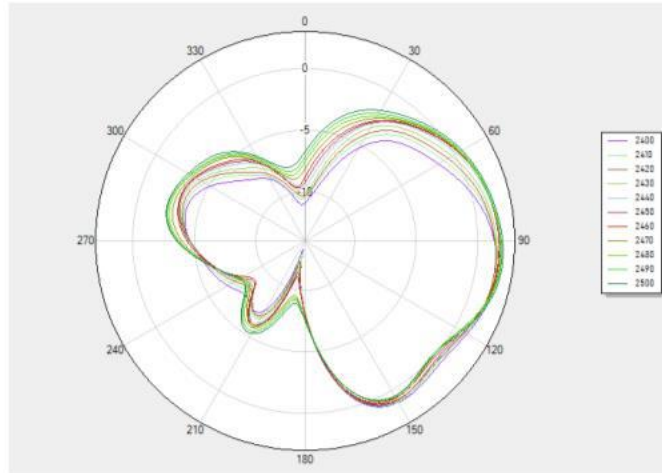
ANT with MaxGain

3D Radiation

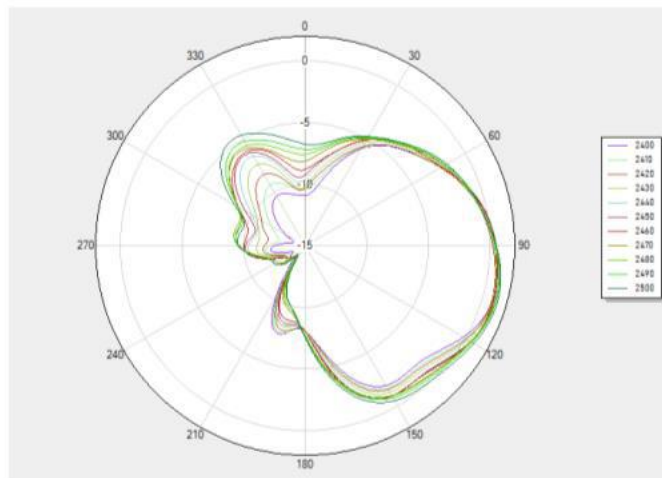


2400MHz

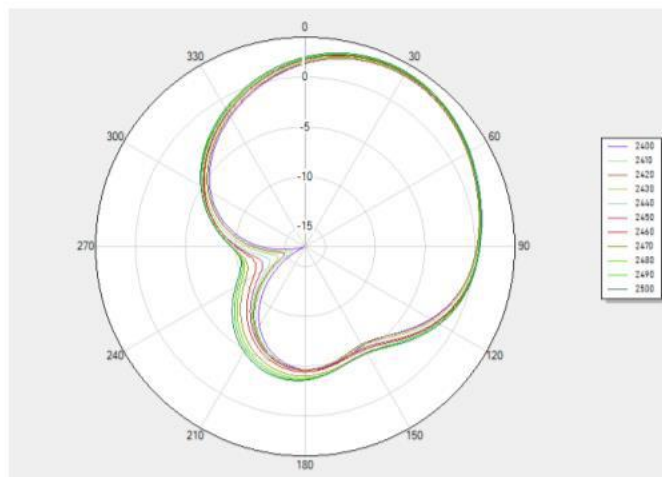




Phi 0 2D图



Phi 90 2D图



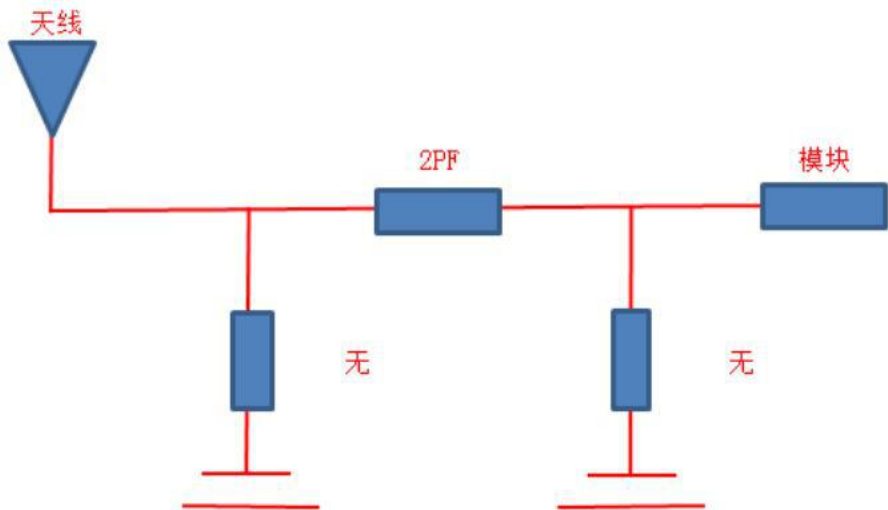
Theta 90 2D图

3.3 Active test data (AP mode)

Item	Measurement	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	WIFI (Station)	WIFI_B (11M)	6	2437	24.24	-9.03	18.96
2	TIS(EIRP)	WIFI (Station)	WIFI_B (11M)	6	2437	88.35	50.39	83.12

4. Matching circuit diagram

The matching circuit is changed, with 2PF capacitor in series



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