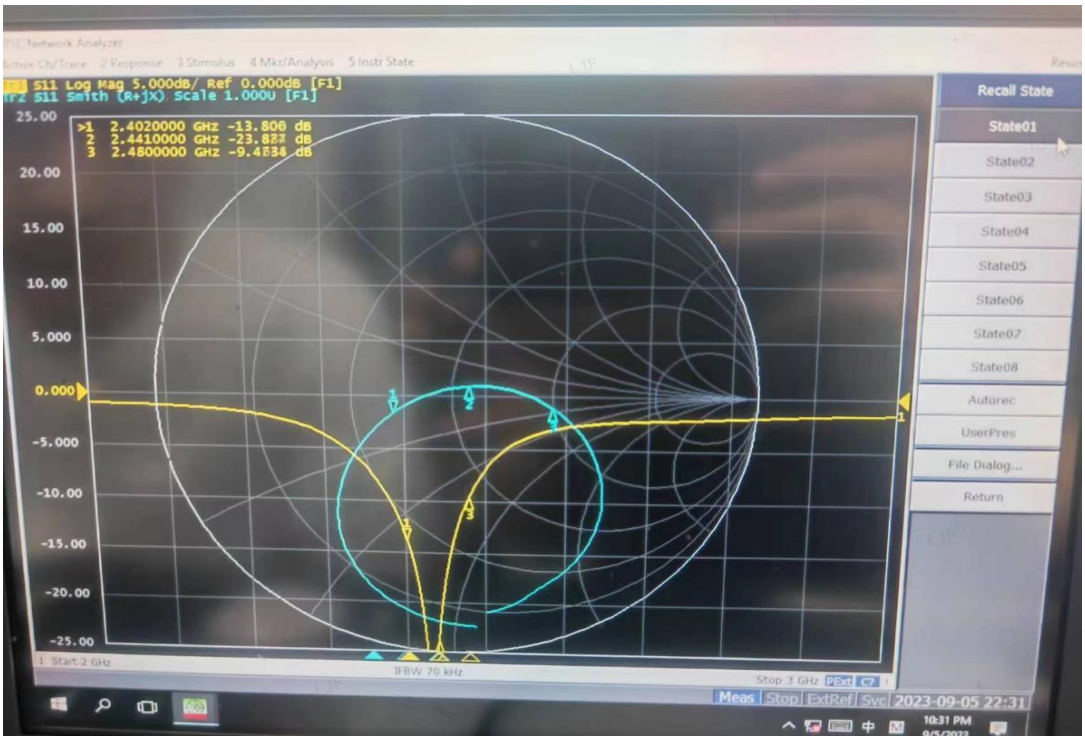
22271 RF Antenna Design Report V1.0

Main objectives of this report:
Main conclusions of this report:
Key points for attention in this report:

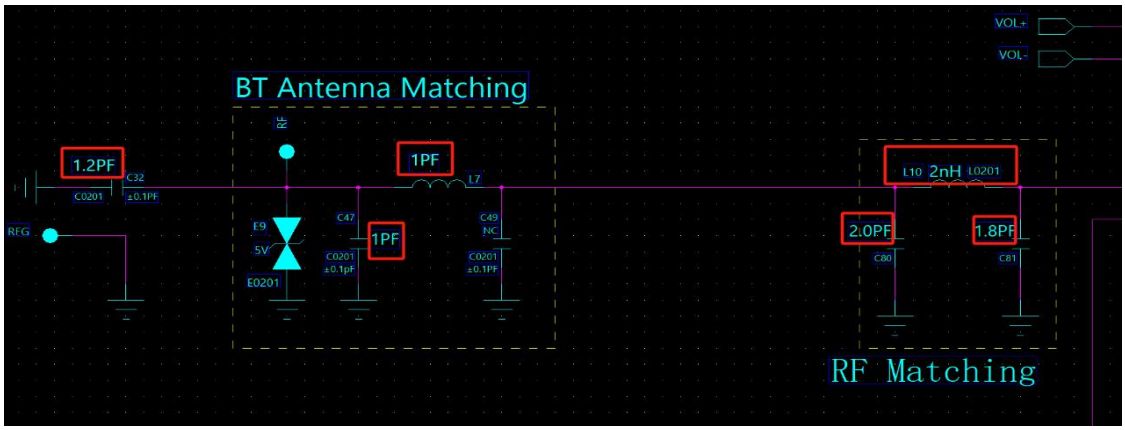
1.Motherboard chip conduction

channel	power	ensitivity
0	13.5	-95
39	13.5	-95
78	13.5	-95

2.Antenna passive network division picture



3.RF network matching material

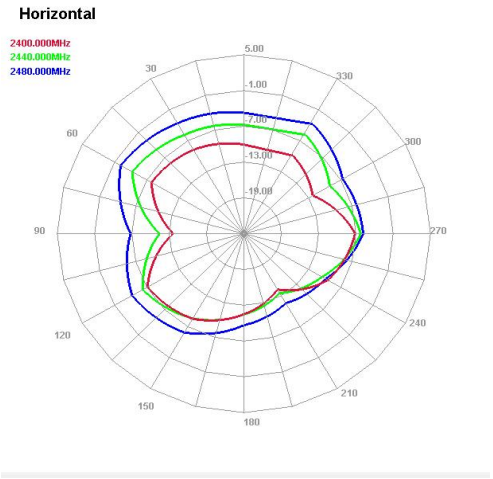


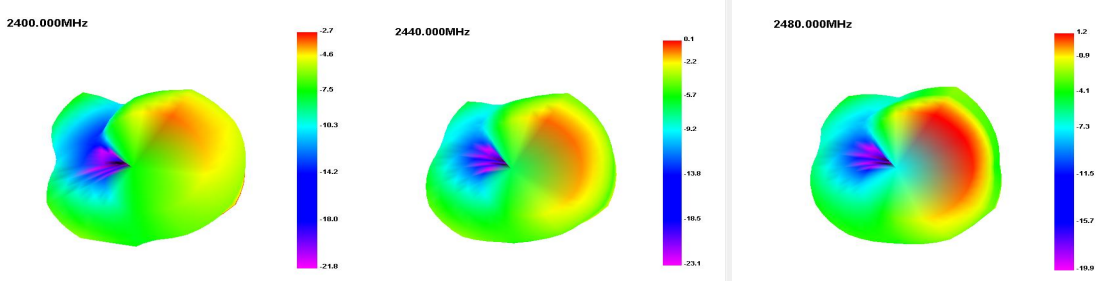
C32	C47	L7	C49	C80	L10	C81
1.2PF	1PF	1PF	NC	2.0PF	2.0NH	1.8PF

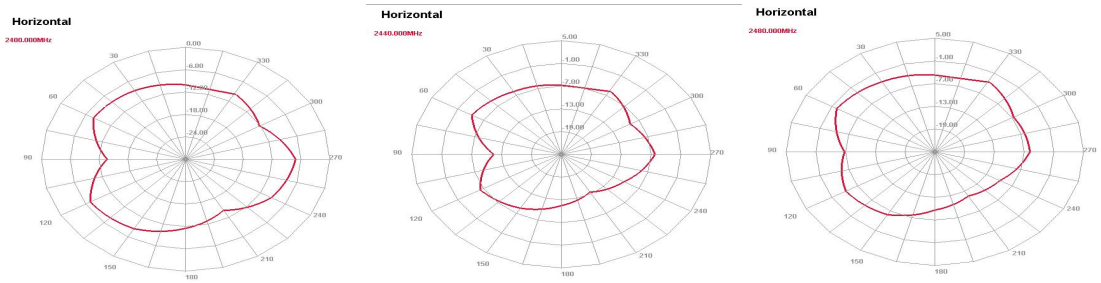
4、Passive data

L-FS

Freq[MHz]	Efficiency(%)	Gain(dBi)
2400	17.85	-4.84
2410	22.98	-3.53
2420	24.88	-3.02
2430	27.47	-2.47
2440	30.23	-2.05
2450	33.58	-1.73
2460	37.2	-1.54
2470	38.9	-1.18
2480	40.86	-0.97
AVG	30.44	-2.37



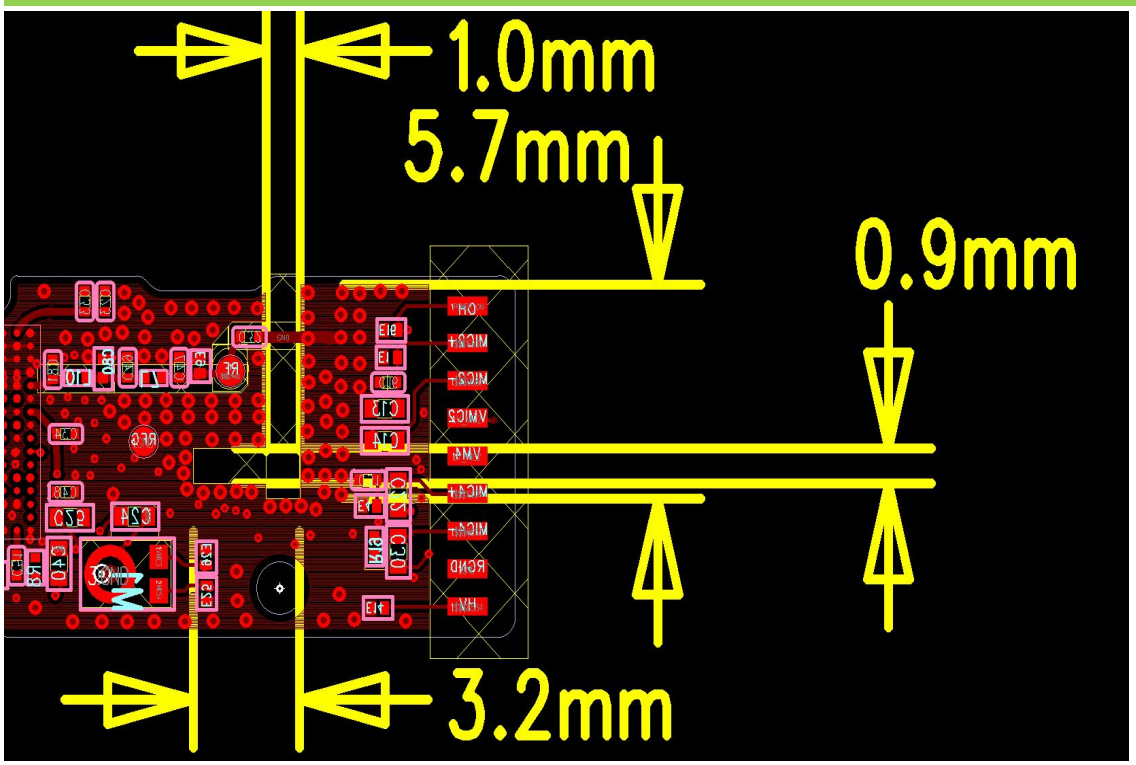




5、Active test data

1#	Channel	TRP（dbm）	TRP（dBm）
freedom	0	12.86	-93.95
	39	14.56	-95.31
	78	13.65	-95.47
1#	Channel	TRP（dbm）	TIS（dbm）
Ear&head	0	9.25	-90.67
	39	9.37	-91.32
	78	10.26	-92.26

6、PCB board day chart



7.Actual field antenna type test as follows:

ITEM	SPEC.	
Antenna Type	PCB antenna	
WorkingFrequencyRange	2402~2480MHz	
Max. GAIN	-0.97	dBi
Mini. GAIN	-4.84	dBi
AVG GAIN	-2.37	dBi
DUT Polarization	Horizontal & Vertical	
TEST Output Power Level	14dBm±2dbm	
Impedance	50 Ω	
Model number	22271-E1-V1.2-A	
Manufacturer information	Fuxiang	