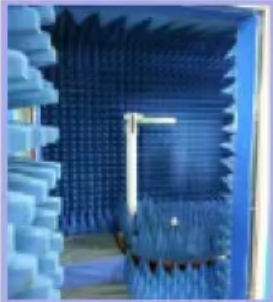




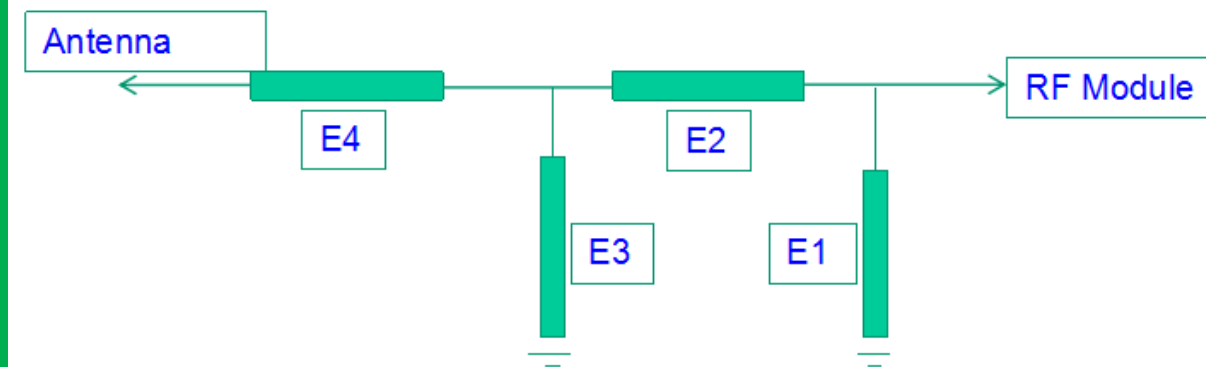
1. Debug version record

[illegible]

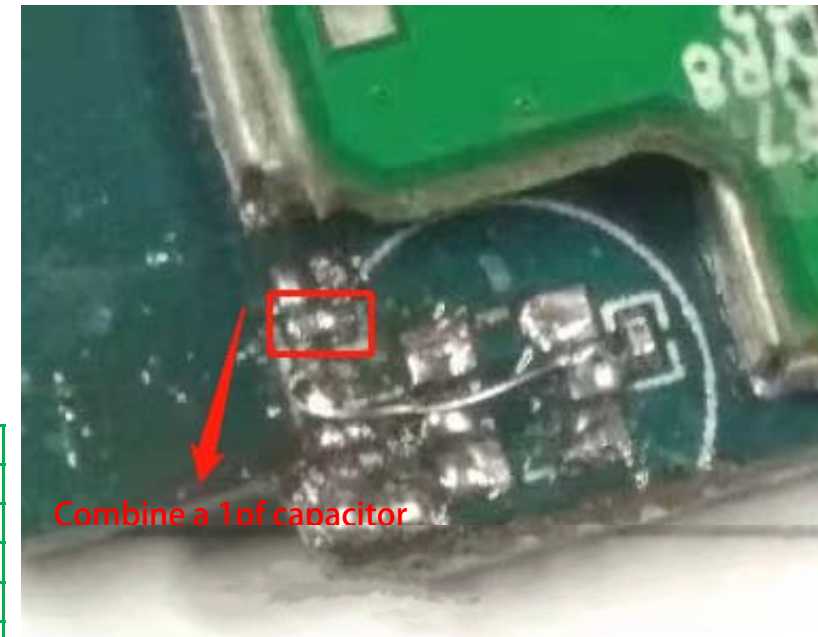
2. Test equipment

					
SATIMO-24		ETS		Simulated human head and hand	
					
8960	MT8820C	CMW500	E5071C		
Test system		testing environment		Active testing	
SATIMO—24		temperature : 22°C ± 3°C		sustain 2G/3G/4G	
ETS		humidity : 50% ± 15%		BT/WIFI/GPS	
				Passive Test	
				400MHZ——6G	

3. Matching circuit: ground and a 1PF capacitor



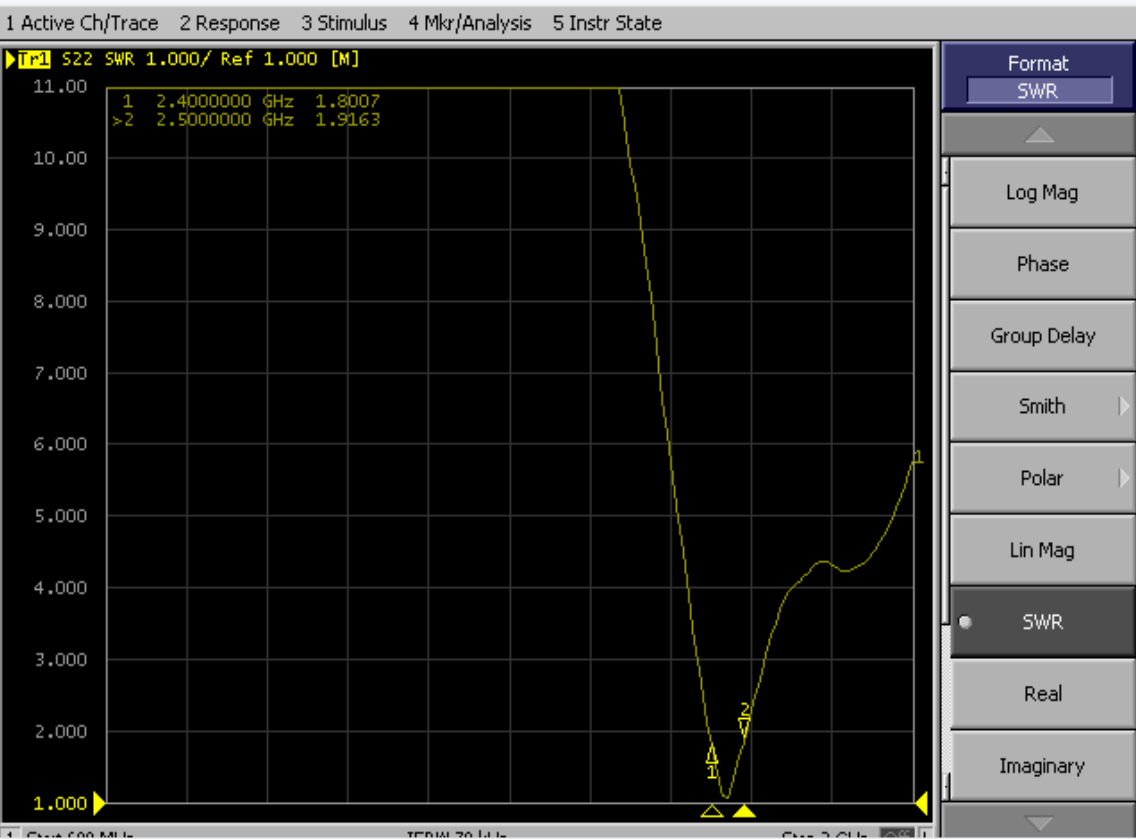
main antenna		Diversity antenna		GPS three-in-one antenna	
Element	Value	Element	Value	Element	Value
E1 (0402)		E1 (0402)		E1 (0402)	
E2 (0402)		E2 (0402)		E2 (0402)	
E3 (0201)	1pf Capacitors	E3 (0402)		E3 (0402)	
E4 (0402)		E4 (0402)		E4 (0402)	



4. Active testing

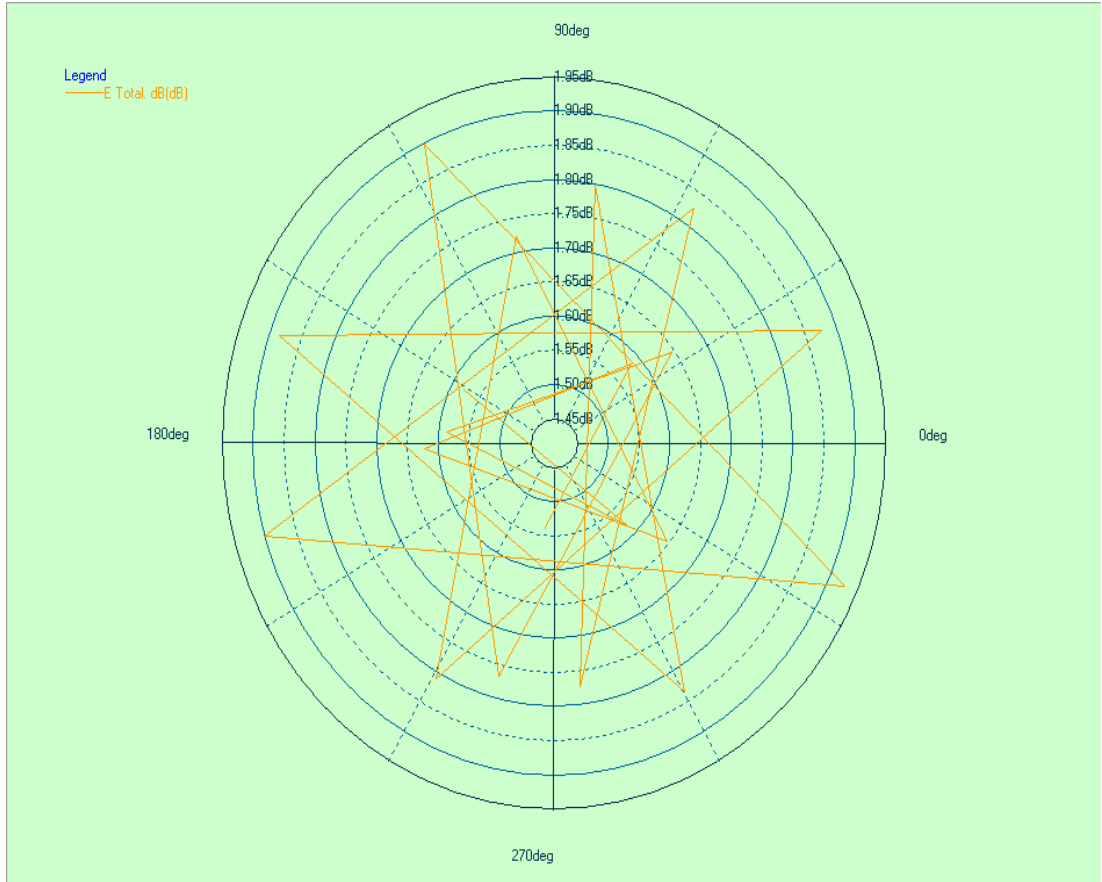
	FDD-B2			FDD-B4			FDD-B5		
CHN	18900	19100	19400	20050	20175	20300	20450	20525	20600
TRP	17.7		18.2	17.2		17.7	16.5		15.8
TIS			-89.2			-90.2			-85.4
	FDD-B7			FDD-B12			FDD-B13		
CHN	20800	21100	21400	23060	23095	23130	23230		
TRP	18.1		18	14.2		14.9		14.7	
TIS			-89.4			-84.2		-84.1	
	FDD-B17			FDD-B25				FDD-B66	
CHN	23780	23790	23800		26365			66450	
TRP	14.5		15.2		17.6			17.1	
TIS			-84.5		-88.8			-90	
		TDD-B41		W1900			W850		
CHN	40240	40620	41000	9662	9700	9938	4357	4408	4458
TRP	18.3		17.7	18.2		18.3	16.6		15.7
TIS			-90.2			-102.3			-98.8

5.WiFi Passive standing wave, with efficiency

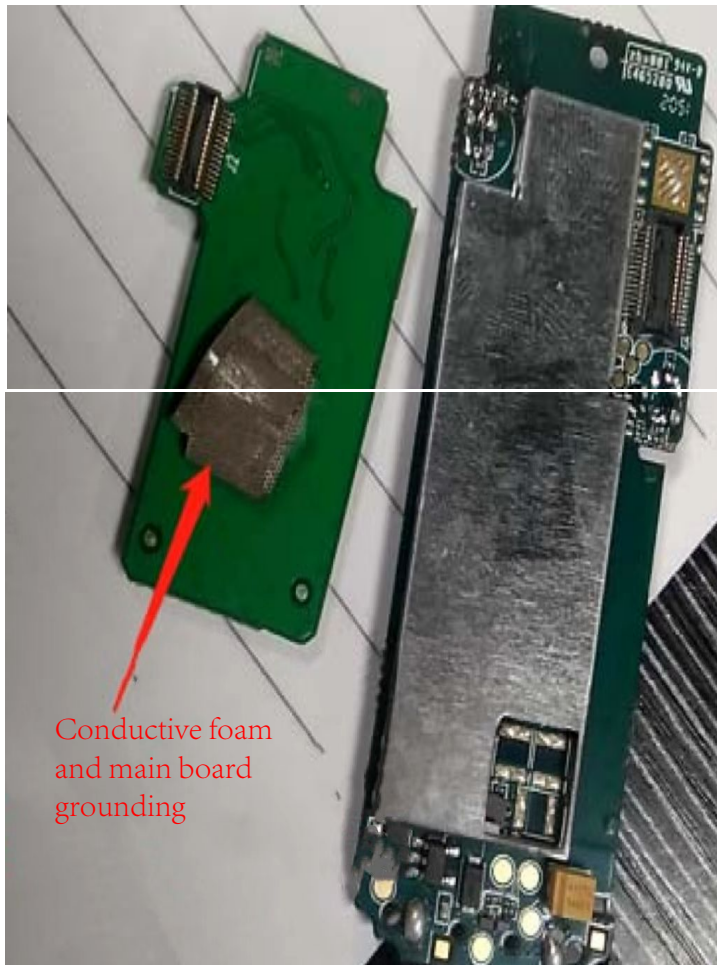


Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	1.14	37.4%
2	2420.0	1.24	38.9%
3	2440.0	1.46	40.8%
4	2460.0	1.40	40.2%
5	2480.0	1.31	39.1%
6	2500.0	1.20	38.3%
7			

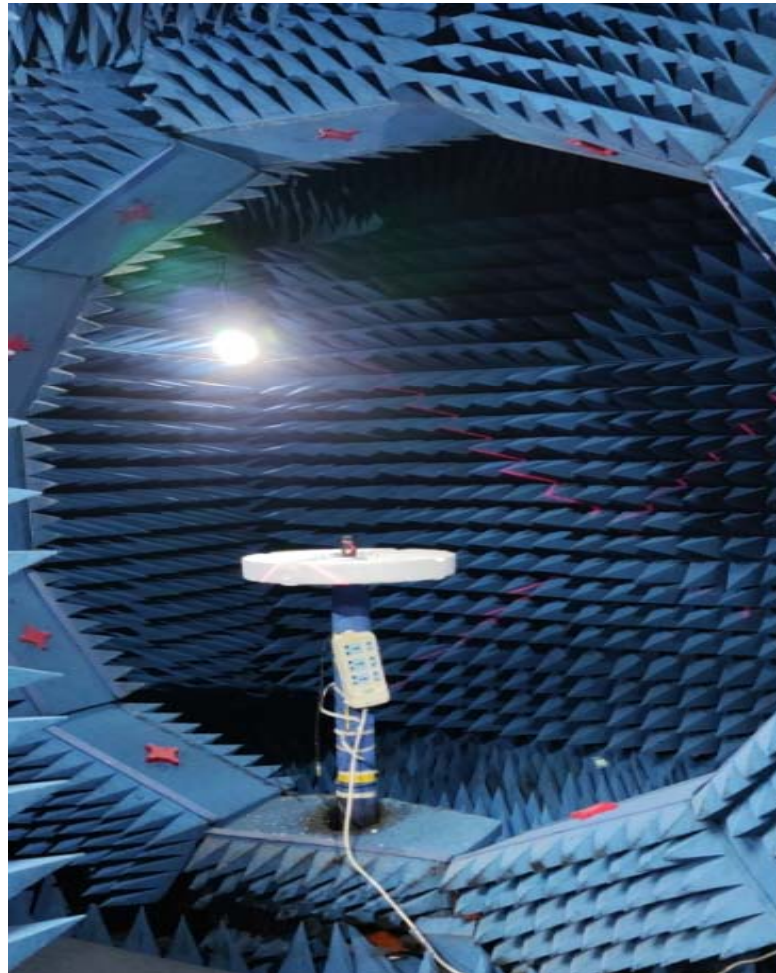
WiFi antenna 2400-2500MHz



Environmental treatment



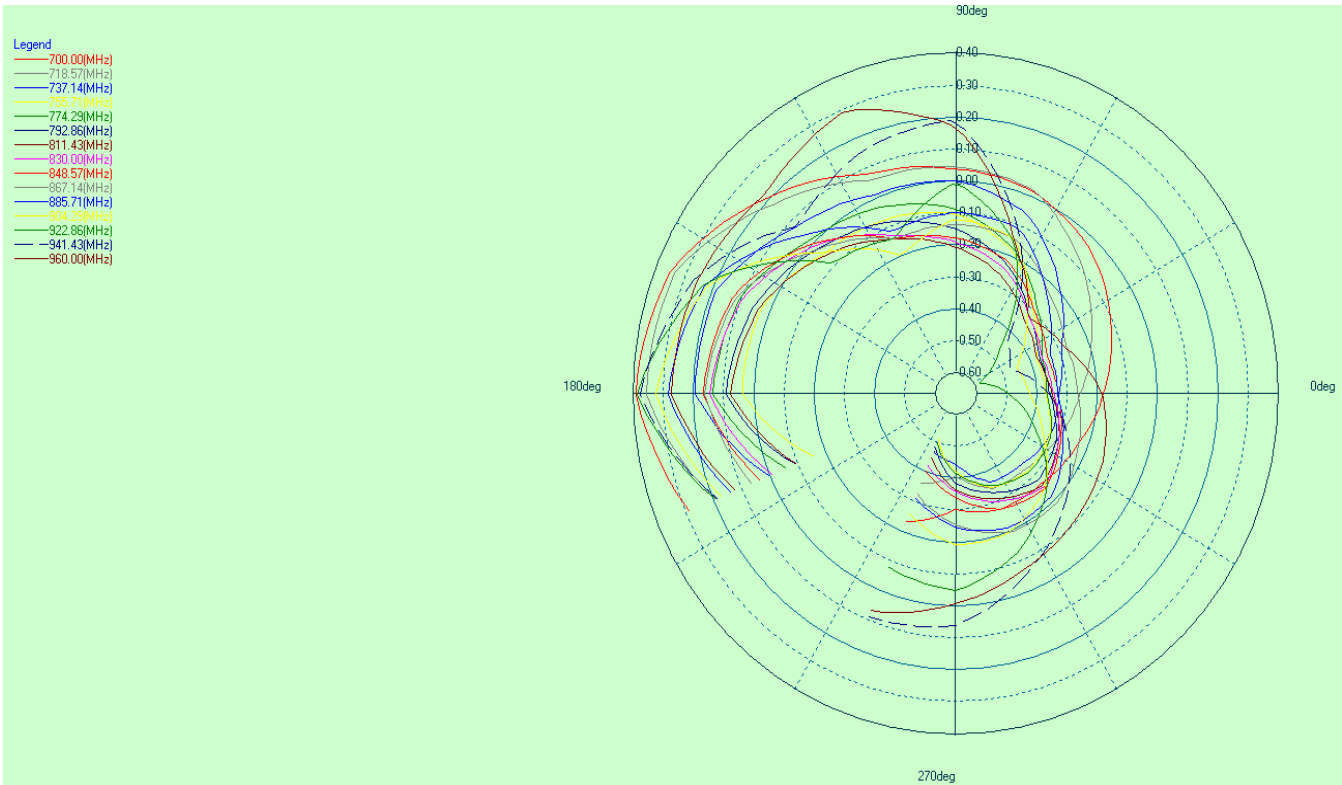
Antenna Field type



4G antenna gain

frequency range	Gain
WCDMA1900	0.80 dBi
WCDMA850	0.10 dBi
FDD 2	0.80 dBi
FDD 4	0.20 dBi
FDD 5	0.10 dBi
FDD 7	0.01 dBi
FDD 12	0.01 dBi
FDD 13	-0.23 dBi
FDD 17	-0.23 dBi
FDD 25	0.70 dBi
FDD 28A	-0.23 dBi
FDD 28B	-0.23 dBi
FDD 66	0.80 dBi
TDD 41	0.80 dBi

Main antenna 700-960MHz



Main antenna 1710-2690MHz

