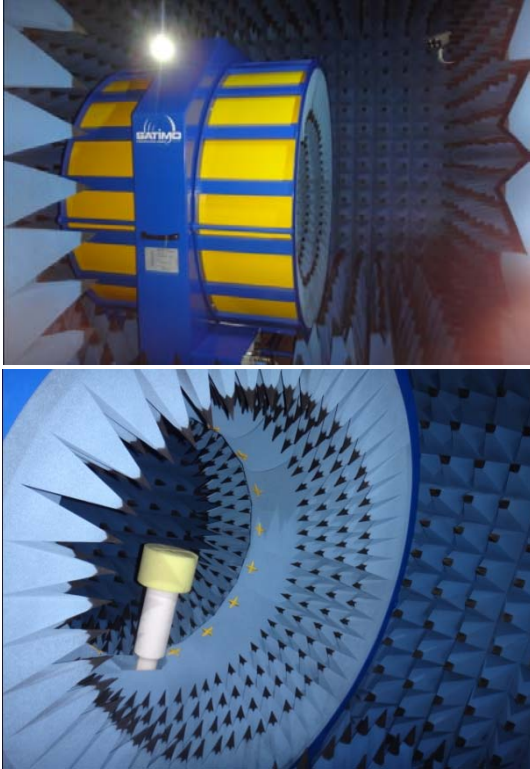


# 测试报告



客户名称	吉祥星	项目名称	V5
调试频段	WIFI 2.4-2.5G 5.7-5.8G	结构方式	FPC
射频工程师	吴朝坤	结构工程师	李森
天线类型	PIFA	日期	20180614

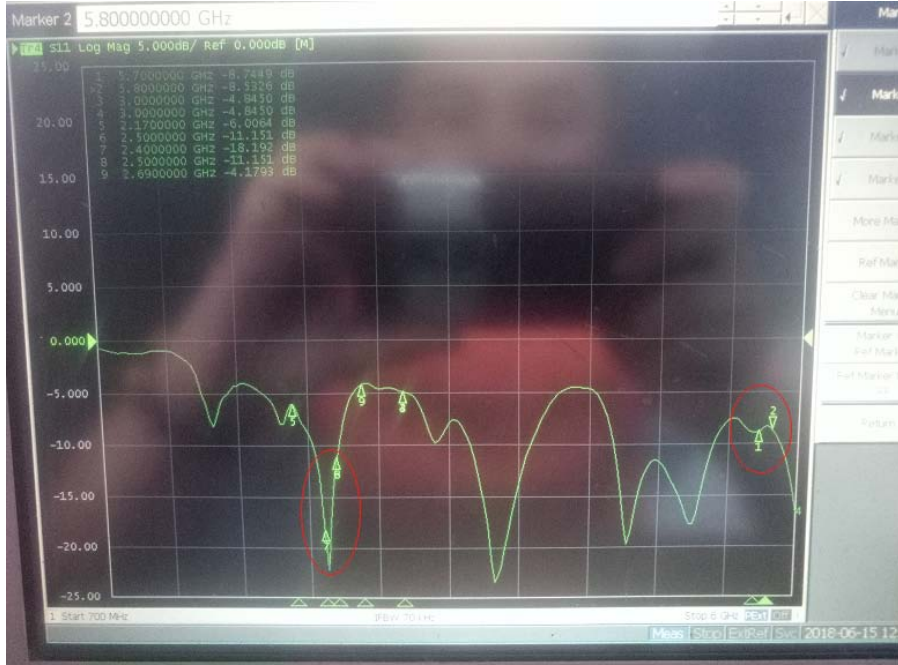


原装进口法国 SATIMO 公司 StarLab 3D 实验室, 能精确快速的测试手机、平板电脑和笔记本等通信终端产品的 TRP、TIS、效率、增益、苹果图、方向图等参数数据。

## 报告版本提要

版本	日期	内容概况
V1	20180611	样品测试
V2	20180614	样品优化

### 优化前 S11 参数

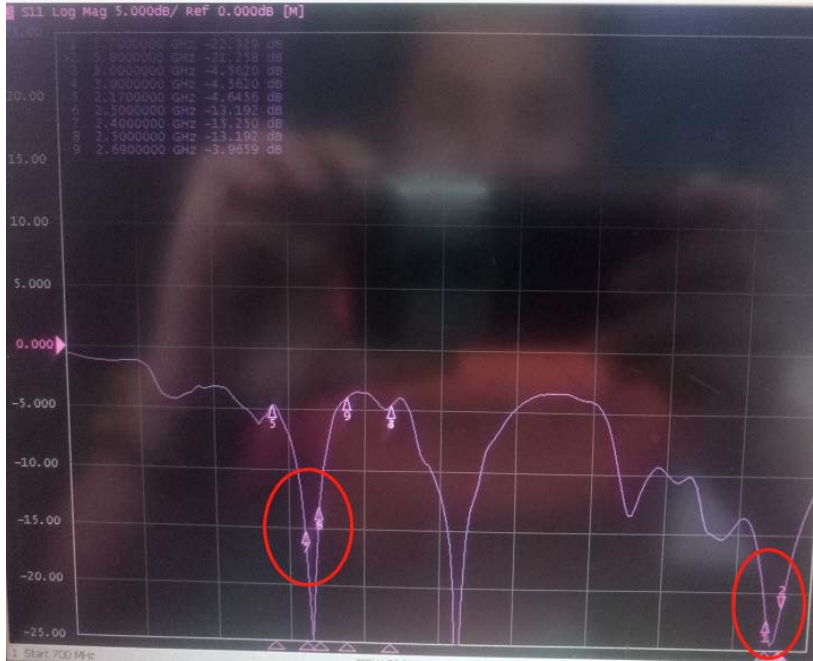


### 优化前无源效率测试

2.4E+09	39%	-4.1107	5.7E+09	37%	-4.3545
2.4E+09	39%	-4.0576	5.7E+09	37%	-4.3601
2.4E+09	40%	-4.0232	5.7E+09	36%	-4.3867
2.4E+09	40%	-3.9906	5.7E+09	36%	-4.4265
2.4E+09	40%	-3.982	5.7E+09	36%	-4.4534
2.4E+09	40%	-3.9882	5.7E+09	36%	-4.4507
2.4E+09	40%	-3.9883	5.7E+09	36%	-4.4582
2.4E+09	40%	-4.0156	5.7E+09	36%	-4.4429
2.4E+09	40%	-4.0144	5.7E+09	36%	-4.4355
2.4E+09	40%	-3.997	5.7E+09	36%	-4.3996
2.4E+09	40%	-3.957	5.7E+09	36%	-4.4064
2.4E+09	41%	-3.9192	5.7E+09	36%	-4.4438
2.4E+09	41%	-3.8822	5.7E+09	36%	-4.4714
2.4E+09	41%	-3.8425	5.7E+09	35%	-4.5233
2.4E+09	41%	-3.8322	5.7E+09	35%	-4.53
2.5E+09	41%	-3.8415	5.8E+09	35%	-4.5568
2.5E+09	41%	-3.8592	5.8E+09	35%	-4.5496
2.5E+09	41%	-3.8783	5.8E+09	35%	-4.5423
2.5E+09	41%	-3.8518	5.8E+09	35%	-4.5251
2.5E+09	42%	-3.8079	5.8E+09	35%	-4.5233
2.5E+09	42%	-3.7601	5.8E+09	35%	-4.5433
2.5E+09	43%	-3.6844	5.8E+09	35%	-4.56
2.5E+09	43%	-3.6313	5.8E+09	35%	-4.5793
2.5E+09	44%	-3.5631	5.8E+09	35%	-4.6148
2.5E+09	44%	-3.5783	5.8E+09	35%	-4.6107
2.5E+09	44%	-3.5866	5.8E+09	34%	-4.6247
2.5E+09	44%	-3.5828	5.8E+09	35%	-4.6118
2.5E+09	44%	-3.5816	5.8E+09	35%	-4.596
2.5E+09	44%	-3.5654	5.8E+09	35%	-4.5849
2.5E+09	44%	-3.5372	5.8E+09	35%	-4.574



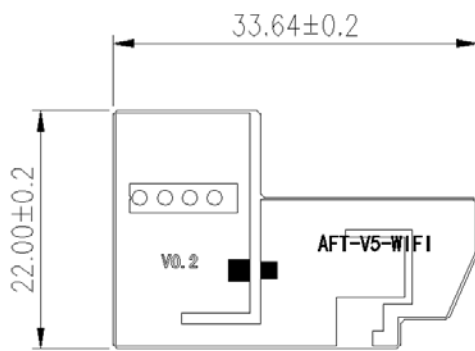
### 优化后 S11 参数



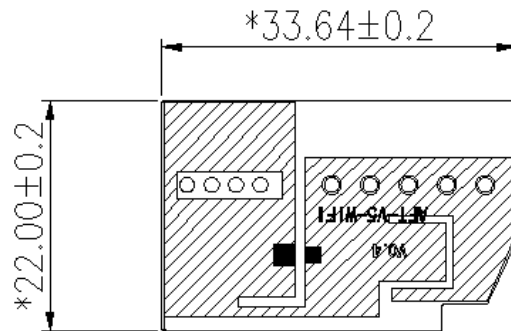
### 优化后无源效率测试

2400000000	43%	-3.73	5700000000	44%	-3.379
2405263157	44%	-3.621	5705263157	45%	-3.358
2410526315	44%	-3.563	5710526315	45%	-3.371
2415789473	45%	-3.528	5715789473	45%	-3.362
2421052631	45%	-3.515	5721052631	44%	-3.407
2426315789	45%	-3.491	5726315789	44%	-3.423
2431578947	45%	-3.434	5731578947	44%	-3.465
2436842105	46%	-3.344	5736842105	44%	-3.489
2442105263	47%	-3.279	5742105263	43%	-3.5
2447368421	47%	-3.249	5747368421	44%	-3.49
2452631578	47%	-3.273	5752631578	44%	-3.493
2457894736	47%	-3.299	5757894736	43%	-3.51
2463157894	47%	-3.29	5763157894	43%	-3.55
2468421052	47%	-3.31	5768421052	43%	-3.581
2473684210	46%	-3.331	5773684210	43%	-3.547
2478947368	46%	-3.402	5778947368	43%	-3.606
2484210526	45%	-3.499	5784210526	43%	-3.607
2489473684	44%	-3.584	5789473684	42%	-3.639
2494736842	43%	-3.664	5794736842	42%	-3.715
2500000000	43%	-3.757	5800000000	42%	-3.697

## 天线外形及线路对比



原天线



优化后天线

## V5 天线增益：

WIFI2.4G 天线增益：2.1dbi

WIFI5G 天线增益：2.2dbi