



深圳市连兴创电子科技有限公司 (研发部)

Shenzhen Lxc Electronics Technology Co ., Ltd

Customer:

Project Name: X7

F Engineer: 温

Testing Date: 2025-07-21

Operating band: WIFI/2.4G/2.5G/5.15G/5.8G
BT/2.4G/2.5G

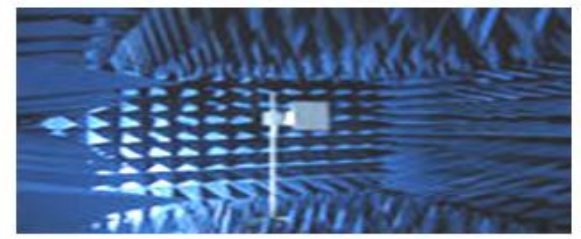
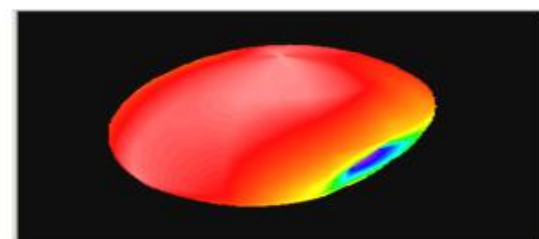
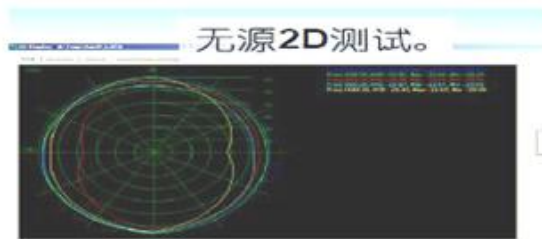
1. Project brief

NO.	ITEMS	DETAILS
1	工作频段 Operating band	WIFI-BT
2	频率范围 Frequency range	2.4G-2.5G/5.15G-5.85G
3	天线类型 Antenna Type	内置FPC
4	主板版本 The mainboardversion	
5	输入阻抗 Input Impedance	50 (Ω)

RF	温	13048903292
ME	唐红交	137 1359 3032

2. Test system and equipment

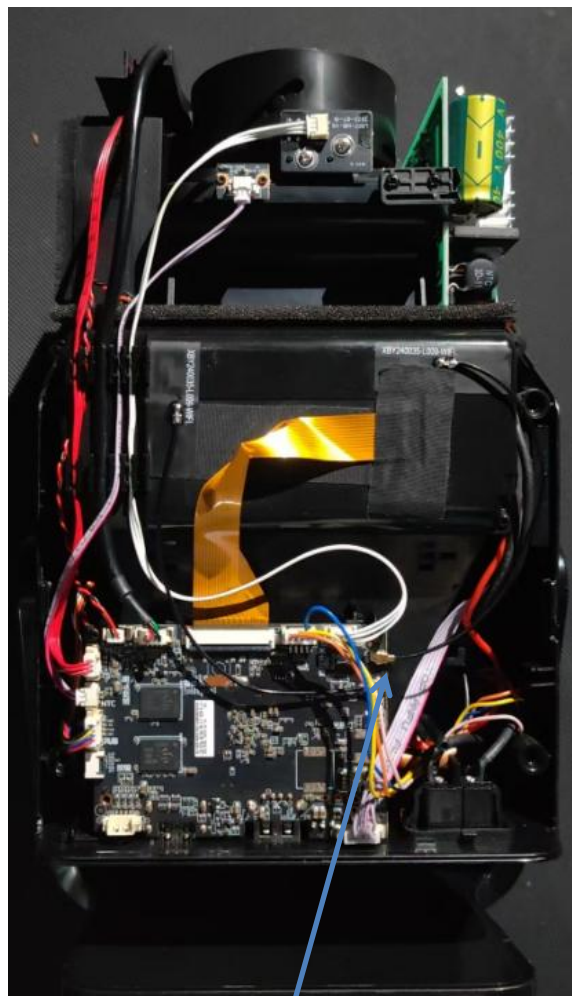
	测试项目	设备
一. 项目图 Project Chart	二. 天线匹配 Antenna Matching	网络分析仪: HP 8753D/E5071C
三. 无源数据 passive data	四. 增益效率 Gain Efficiency	GSM 测试仪: Agilent 8960 E5515C LTE 测试仪: 8820C/CMW500
五. 苹果图方向图 Apple map direction map	六. 有源数据 Active data	1. 暗室: 7x4x3 m (ETS-3D) 2. 网络分析仪: HP 8753D



一.项目图Project Chart

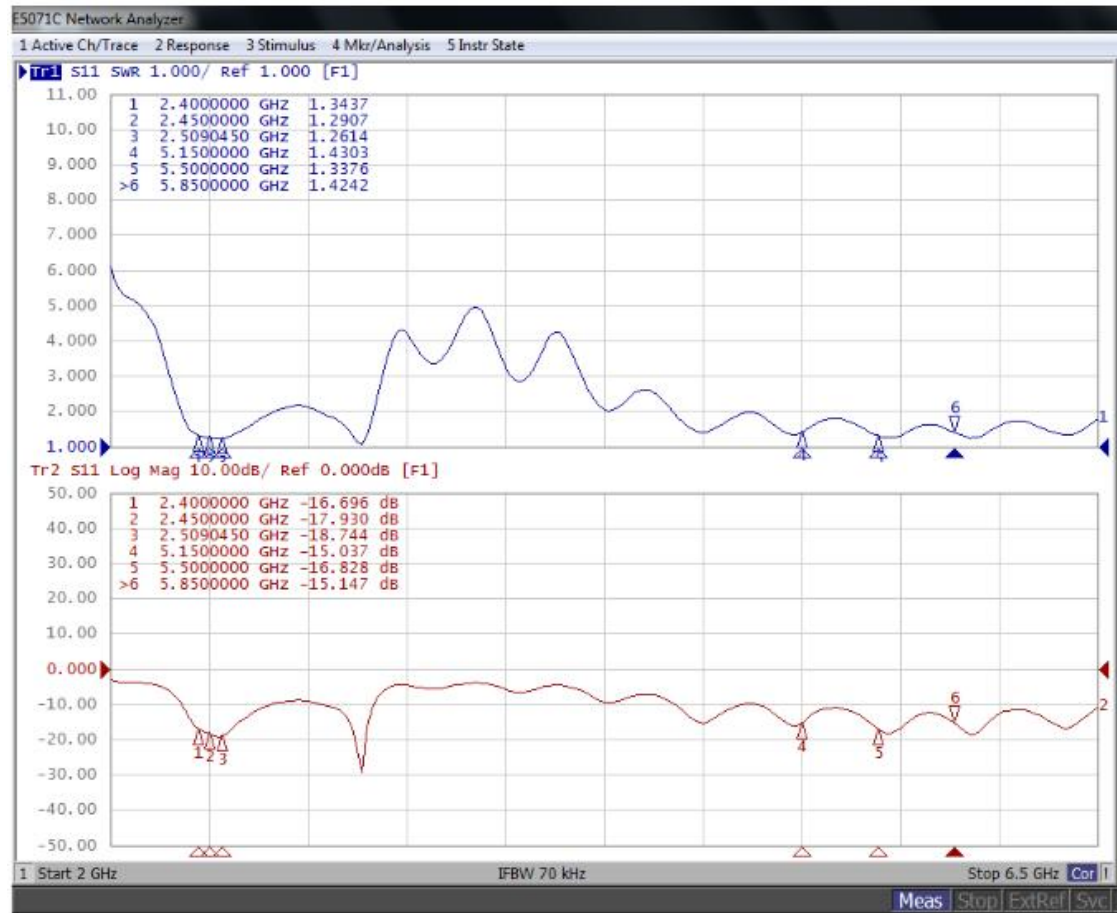


二.天线匹配Antenna Matching

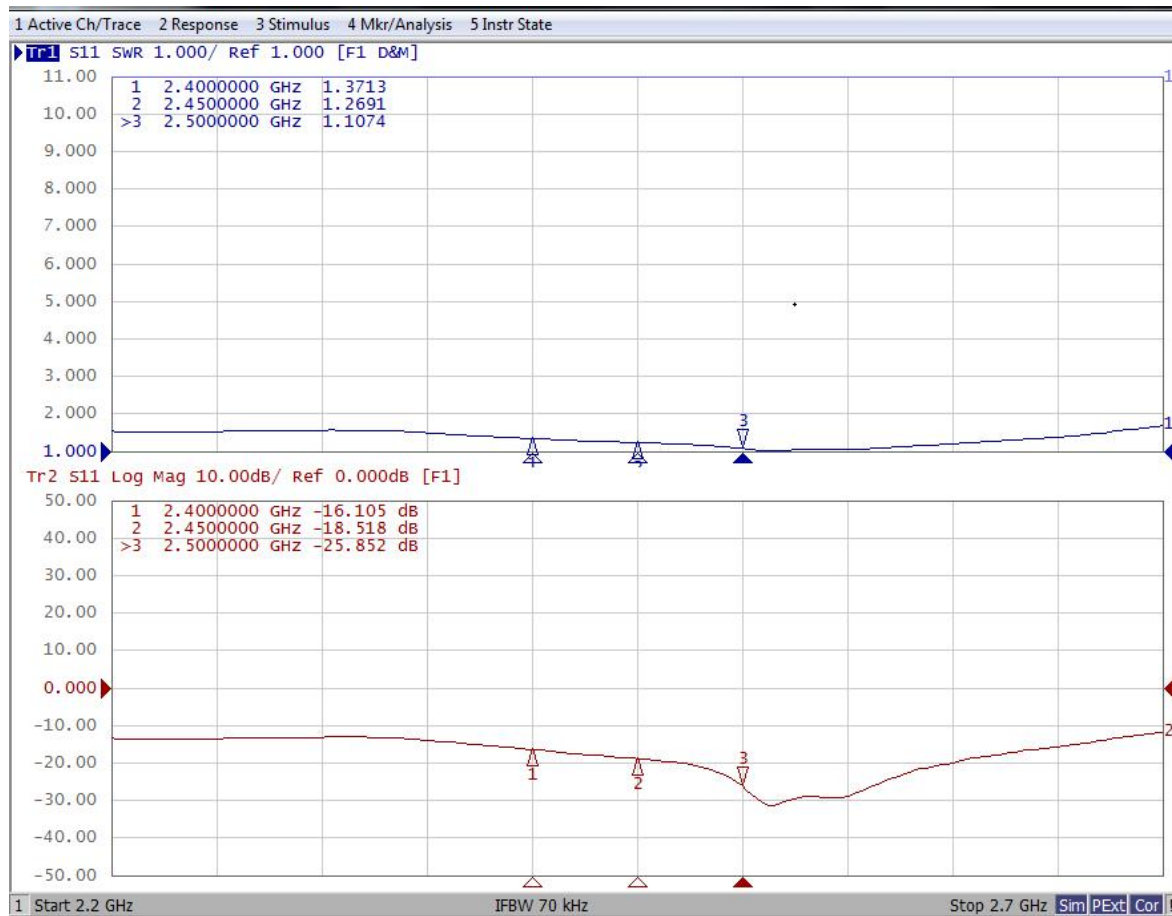


天线匹配未改动

三.无源数据 passive data



SWR-WIFI



SWR-BT

四. 增益效率 Gain Efficiency

WIFI-2.4G

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	54.9	2.09
2410	54.6	2.02
2420	57.09	2.37
2430	57.7	2.72
2440	63.71	3.41
2450	63.26	3.64
2460	67.06	3.95
2470	69.01	3.95
2480	66.4	3.59
2490	68.26	3.53
2500	68.76	3.68

BT-2.4G

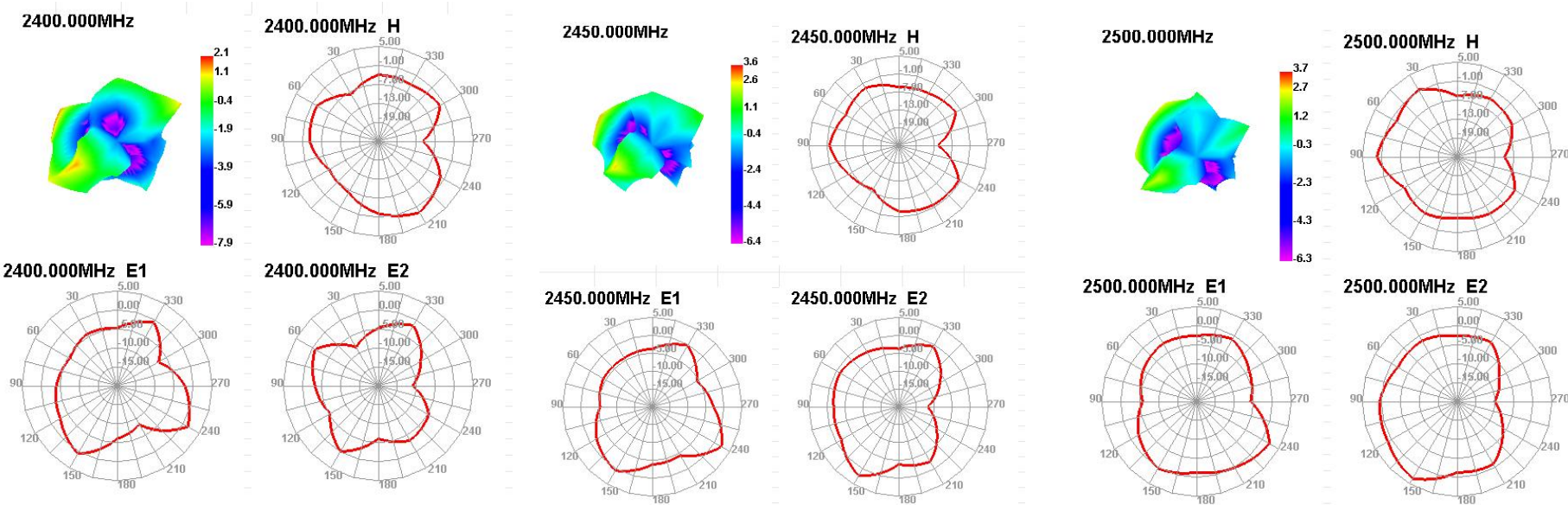
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	48.8	1.32
2410	46.4	1.67
2420	48.06	2.22
2430	48.17	2.57
2440	51.86	2.94
2450	54.55	3.16
2460	57.52	3.33
2470	59.23	3.45
2480	59.73	3.56
2490	60.37	3.64
2500	61.05	3.64

WIFI-5G

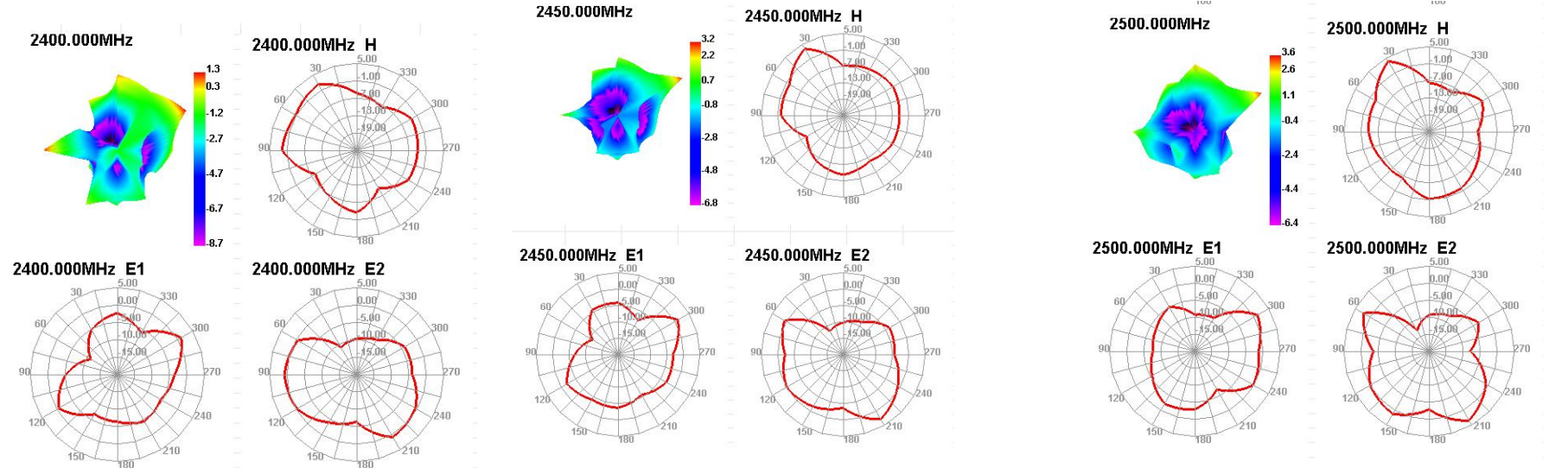
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	68.1	2.62
5350	65.24	3.21
5550	69.99	3.11
5650	69.82	3.02
5850	69.88	3.57

五. 苹果图方向图 Apple map direction map

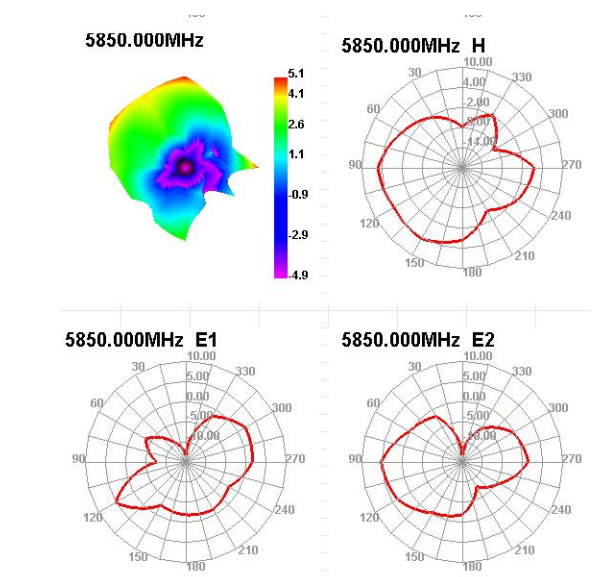
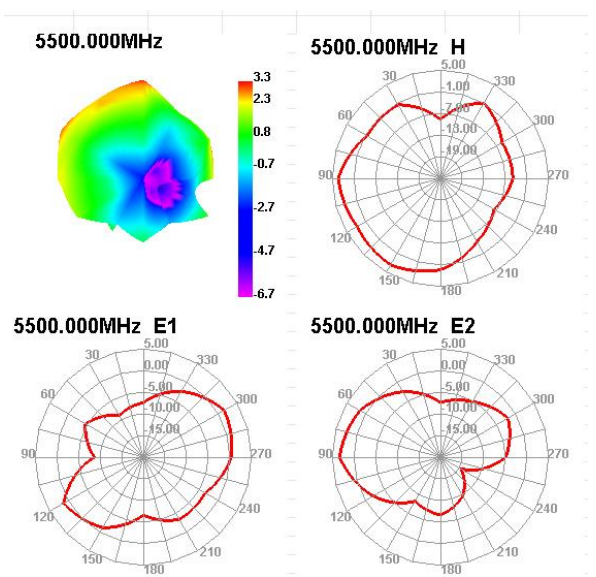
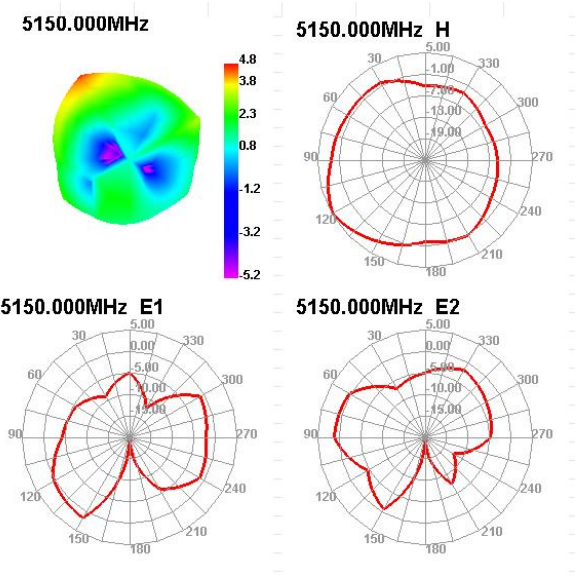
WIFI-2.4G



BT-2.4G



WIFI-5G



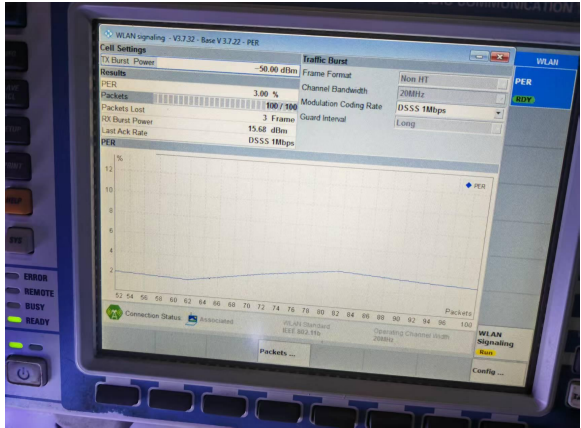
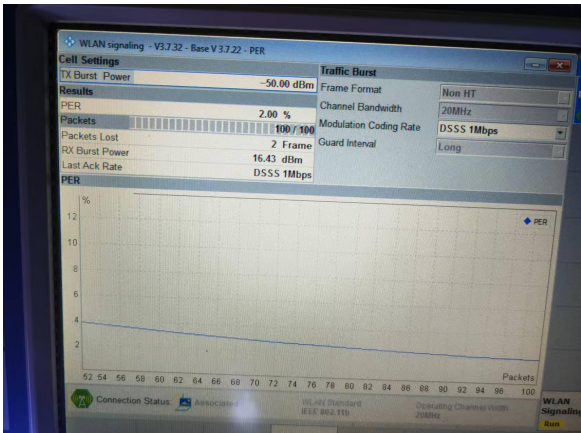
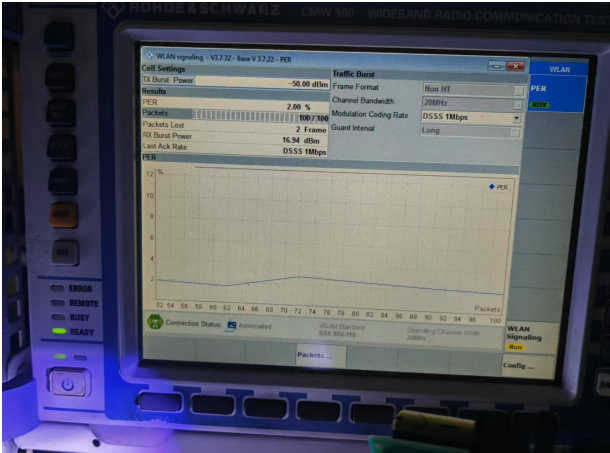
六. 有源数据 Active data

WiFi(2.4G/B)	CH	TRP-(11M)	TIS-(11M)	WiFi(5G/A)	CH	TRP-(54M)	TIS-(54M)
	1	15.4			36	12.1	
	6	15.0			149	17.4	
	11	14.5	-72		165	18.5	-72.5

B模-1信道功率传导数据 16.94

B模-6信道功率传导数据 16.43

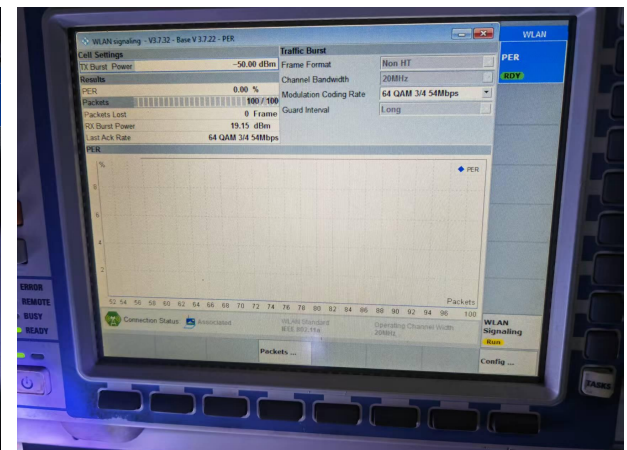
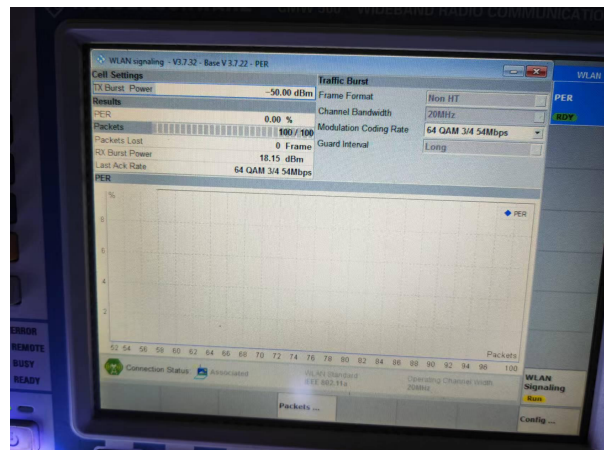
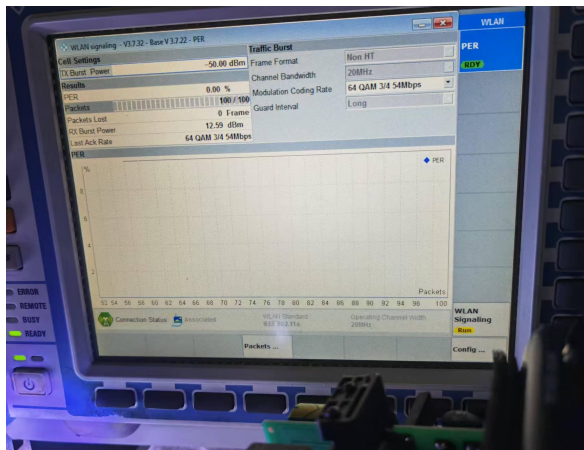
B模-11信道功率传导数据 15.68



A模-36信道功率传导数据 12.59

B模-149信道功率传导数据18.15

B模-165信道功率传导数据19.15



总结：WIFI传导偏低



The end , thanks!