



Dongguan Renfeng Electronic Technology Co., Ltd

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一、Project Information

◆ Report resume

version	Date	Change content
V1.0	2024-09-14	

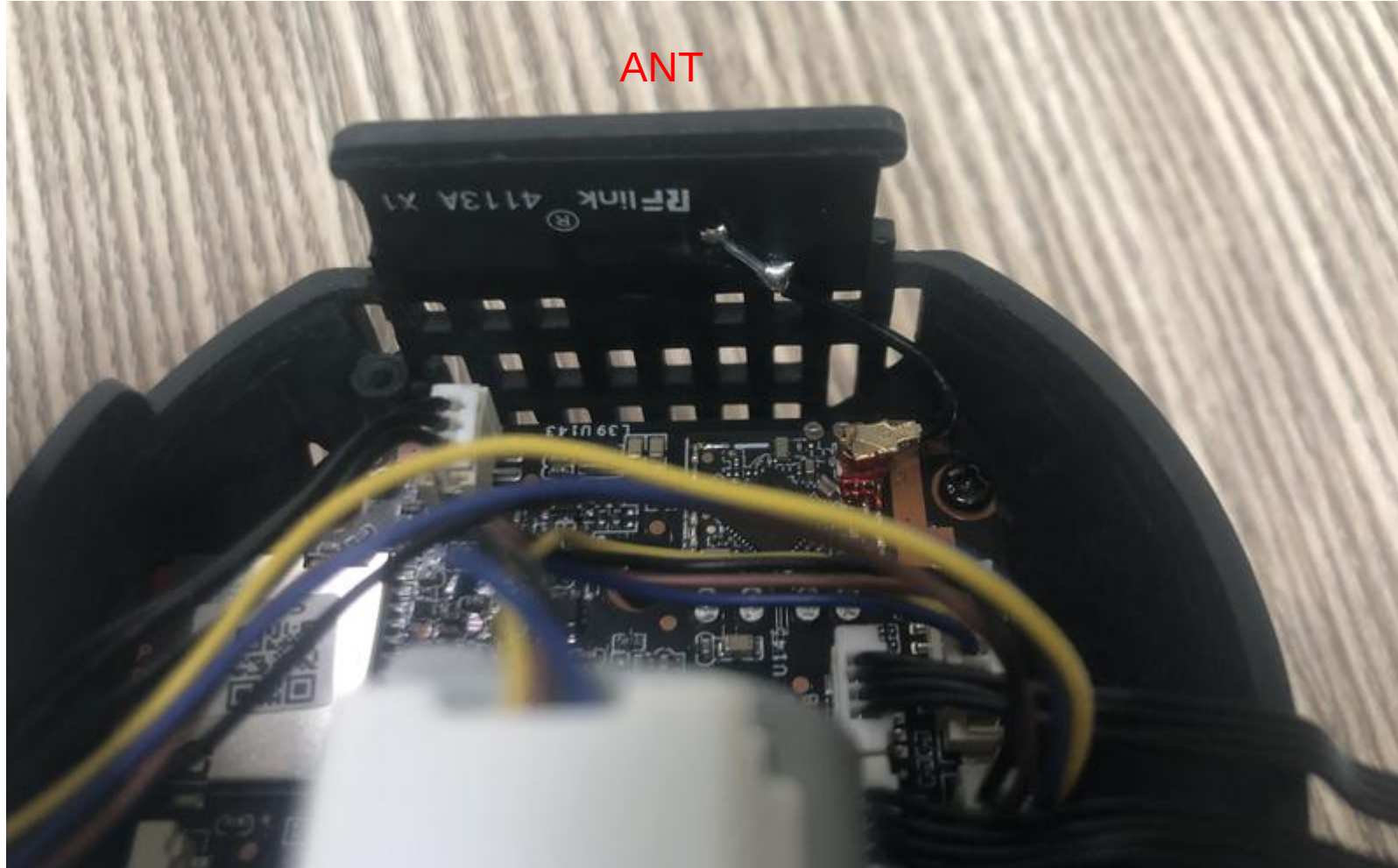
一、 Project Information

◆ Project information



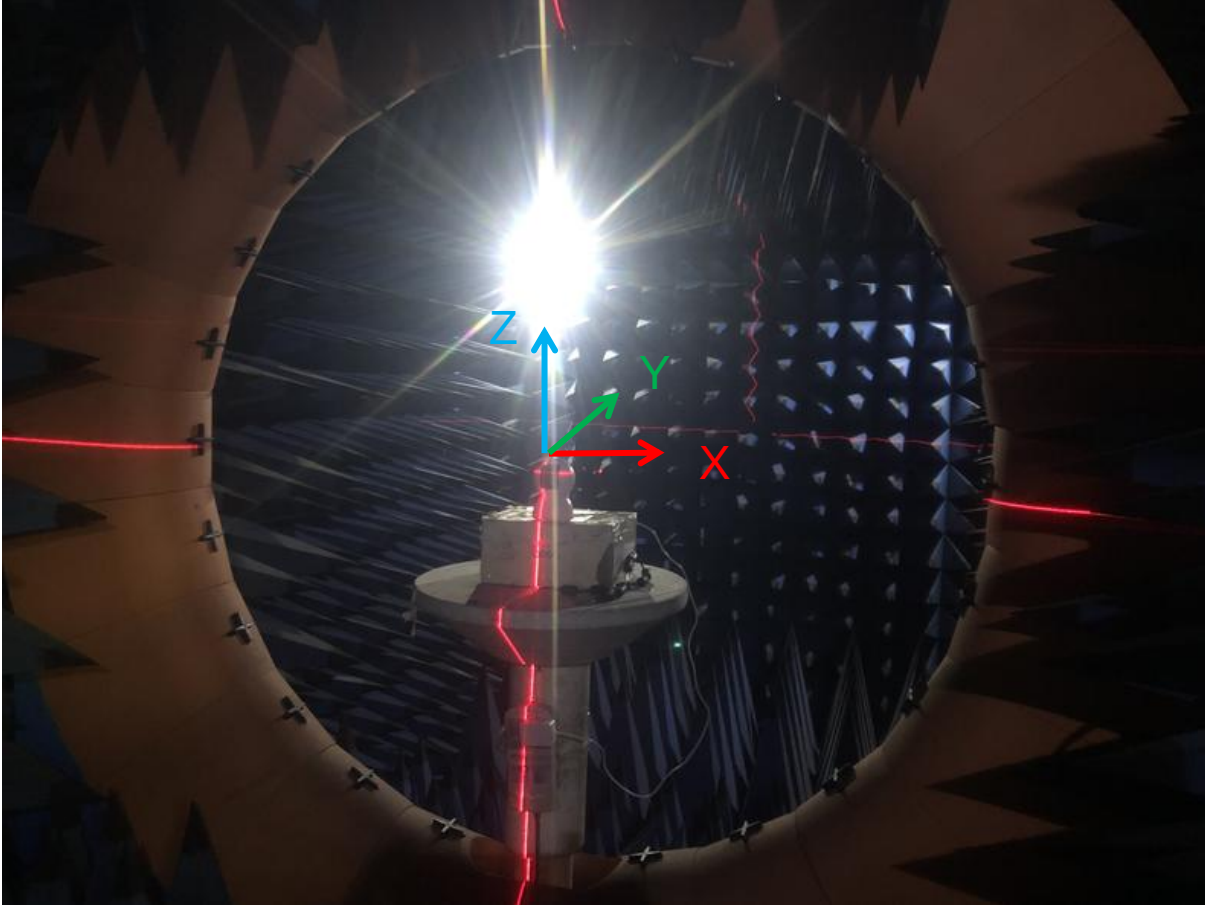
一、Project Information

◆ Project information



一、 Project Information

◆ Coordinate system



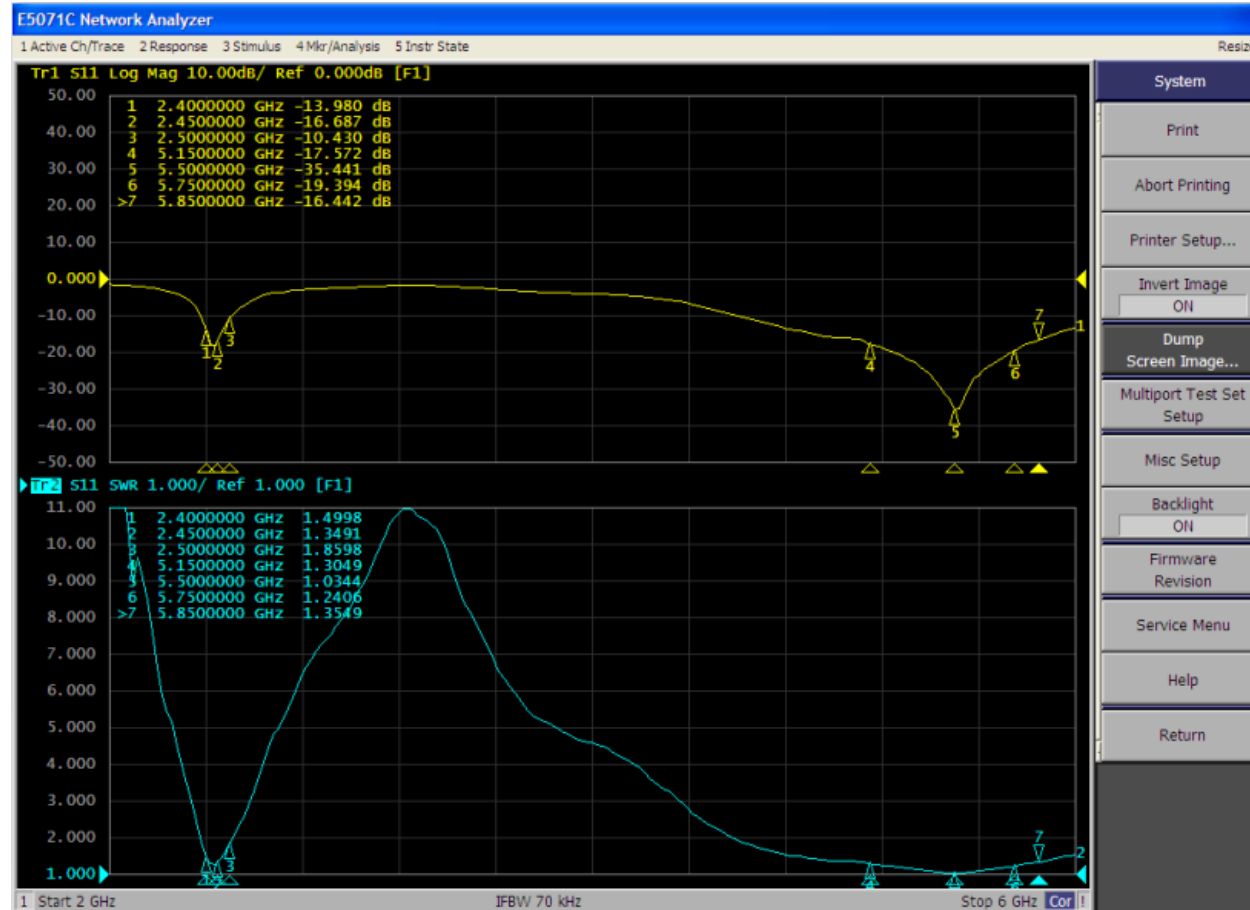
H-plane: XY (horizontal plane)

E1-plane: XZ

E2-plane: YZ

二、Passive Reporting

◆ Return loss and VSWR S11----ANT



二、Passive Reporting

◆ Radiation parameter table

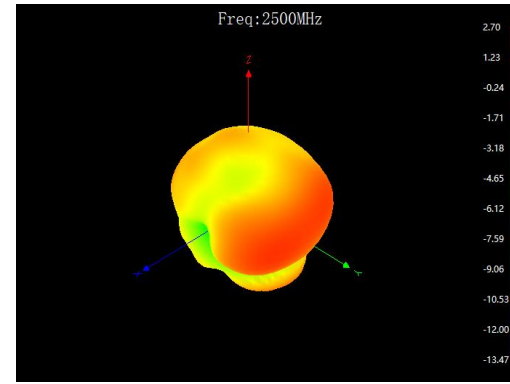
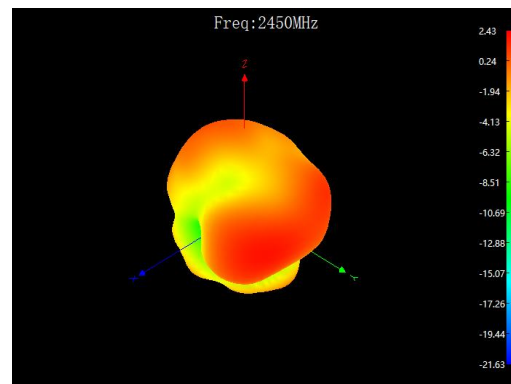
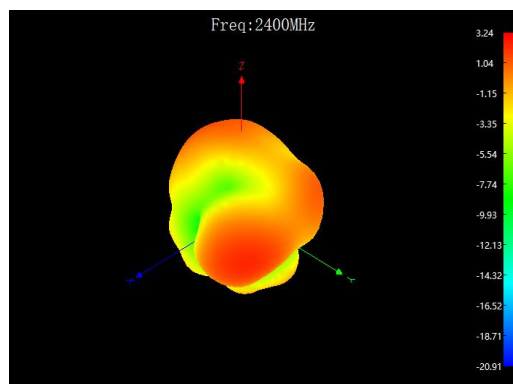
Frequency / MHz	Efficiency / %	Increase / dBi
2400	57.94	3.24
2410	57.15	2.9
2420	57.68	2.72
2430	57.68	2.48
2440	58.61	2.48
2450	58.21	2.43
2460	56.62	2.49
2470	56.1	2.71
2480	55.7	2.81
2490	55.97	2.82
2500	54.12	2.7

Frequency / MHz	Efficiency / %	Increase / dBi
5150	66.12	4.6
5200	67.44	4.62
5250	70.51	5.1
5300	72.45	5.48
5350	72.62	4.83
5400	70.34	5.34
5450	71.91	5.13
5500	73.52	4.62
5550	71.21	4.5
5600	69.3	4.17
5650	67.78	4.08
5700	64.98	3.89
5750	63.87	4.06
5800	62.45	4.5
5850	62.61	4.58

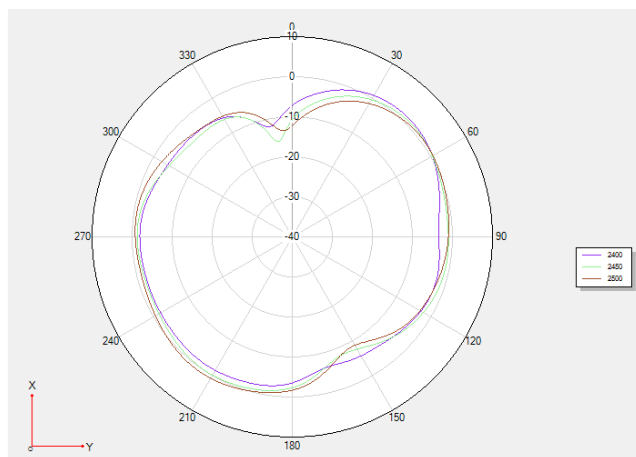
二、Passive Reporting

◆ radiation pattern ANT-2.4G

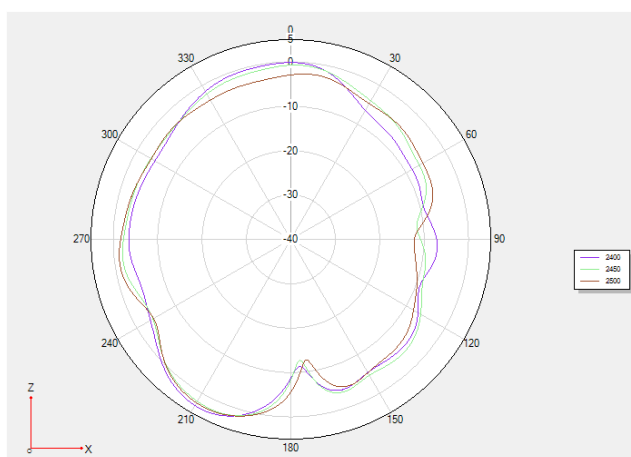
2D/3D pattern



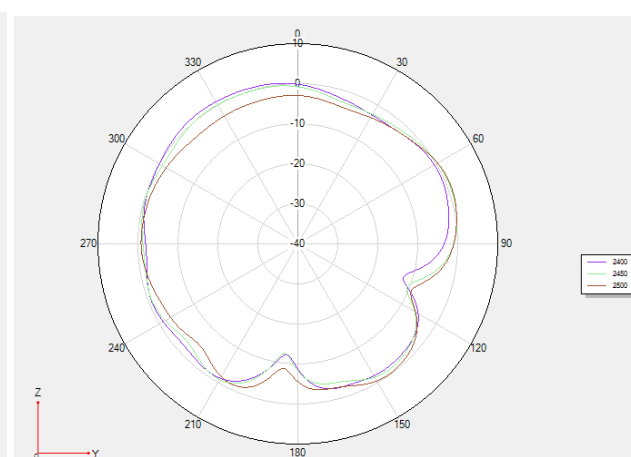
H面-THET=90



E1面-PHI=0



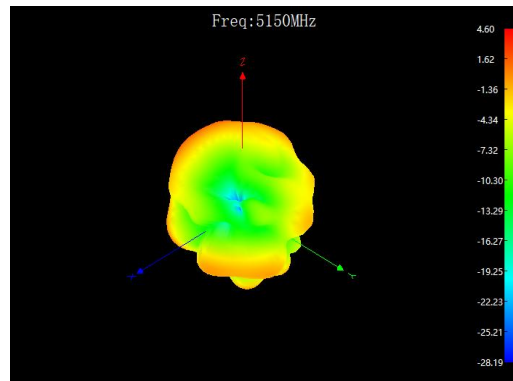
E2面-PHI=90



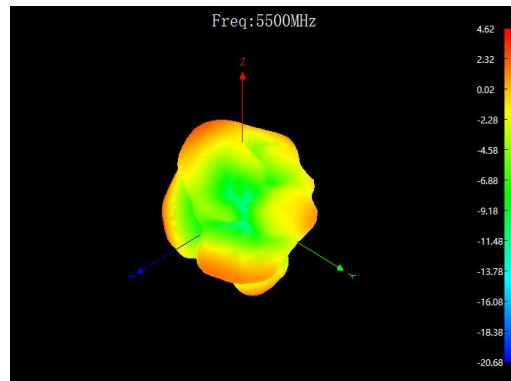
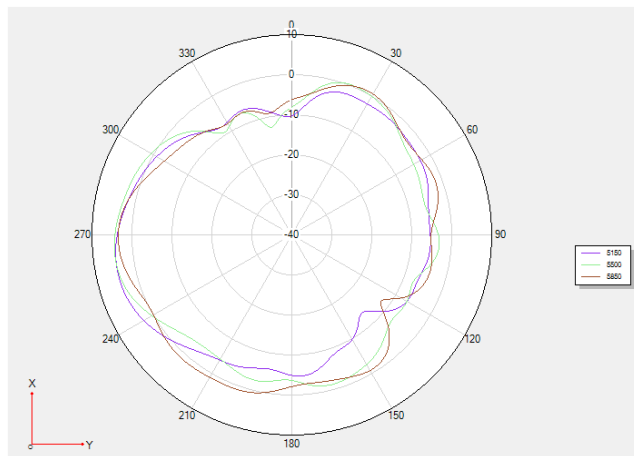
二、Passive Reporting

◆ radiation pattern ANT-5G

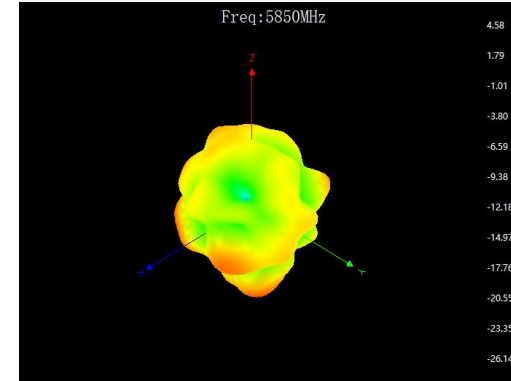
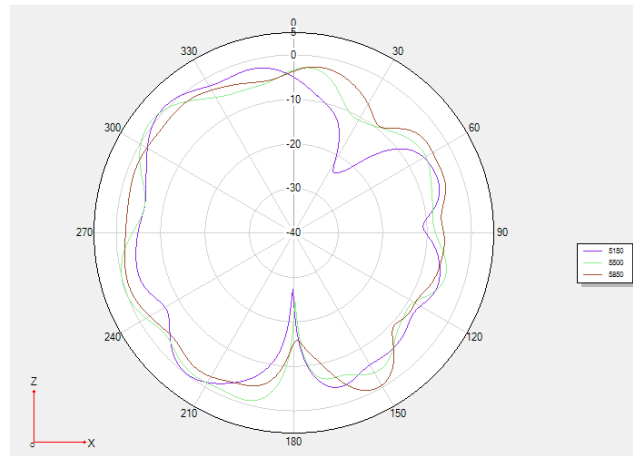
2D/3D pattern



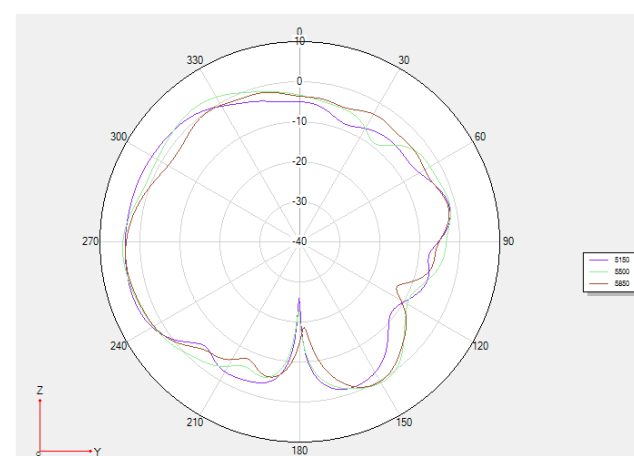
H面-THET=90



E1面-PHI=0



E2面-PHI=90



三、 Active reporting

OTA data

Item	Measurement	Band	Channel	Frequency	Total
1	TRP	WIFI_B (11M)	1	2412	15.81
2	TRP	WIFI_B (11M)	6	2437	17.22
3	TRP	WIFI_B (11M)	11	2462	16.77
4	TIS	WIFI_B (11M)	1	2412	-85.33
5	TIS	WIFI_B (11M)	6	2437	-86.13
6	TIS	WIFI_B (11M)	11	2462	-85.02
7	TRP	WIFI_G (54M)	1	2412	15.08
8	TRP	WIFI_G (54M)	6	2437	16.37
9	TRP	WIFI_G (54M)	11	2462	15.35
10	TIS	WIFI_G (54M)	1	2412	-72.24
11	TIS	WIFI_G (54M)	6	2437	-73.24
12	TIS	WIFI_G (54M)	11	2462	-73.79
13	TRP	WIFI_N_ISM (65M)	1	2412	11.48
14	TRP	WIFI_N_ISM (65M)	6	2437	12.82
15	TRP	WIFI_N_ISM (65M)	11	2462	11.88
16	TIS	WIFI_N_ISM (65M)	1	2412	-67.61
17	TIS	WIFI_N_ISM (65M)	6	2437	-67.94
18	TIS	WIFI_N_ISM (65M)	11	2462	-68.14
19	TRP	WIFI_A (54M)	36	5180	22.39
20	TRP	WIFI_A (54M)	100	5500	21.14
21	TRP	WIFI_A (54M)	165	5825	20.02
22	TIS	WIFI_A (54M)	36	5180	-76.81
23	TIS	WIFI_A (54M)	100	5500	-78.26
24	TIS	WIFI_A (54M)	165	5825	-76.34