

Antenna Specification

Brand	vivo	Model name	V2427
data	2024/12/10	FCC ID	2AUCY-V2427

1、Test

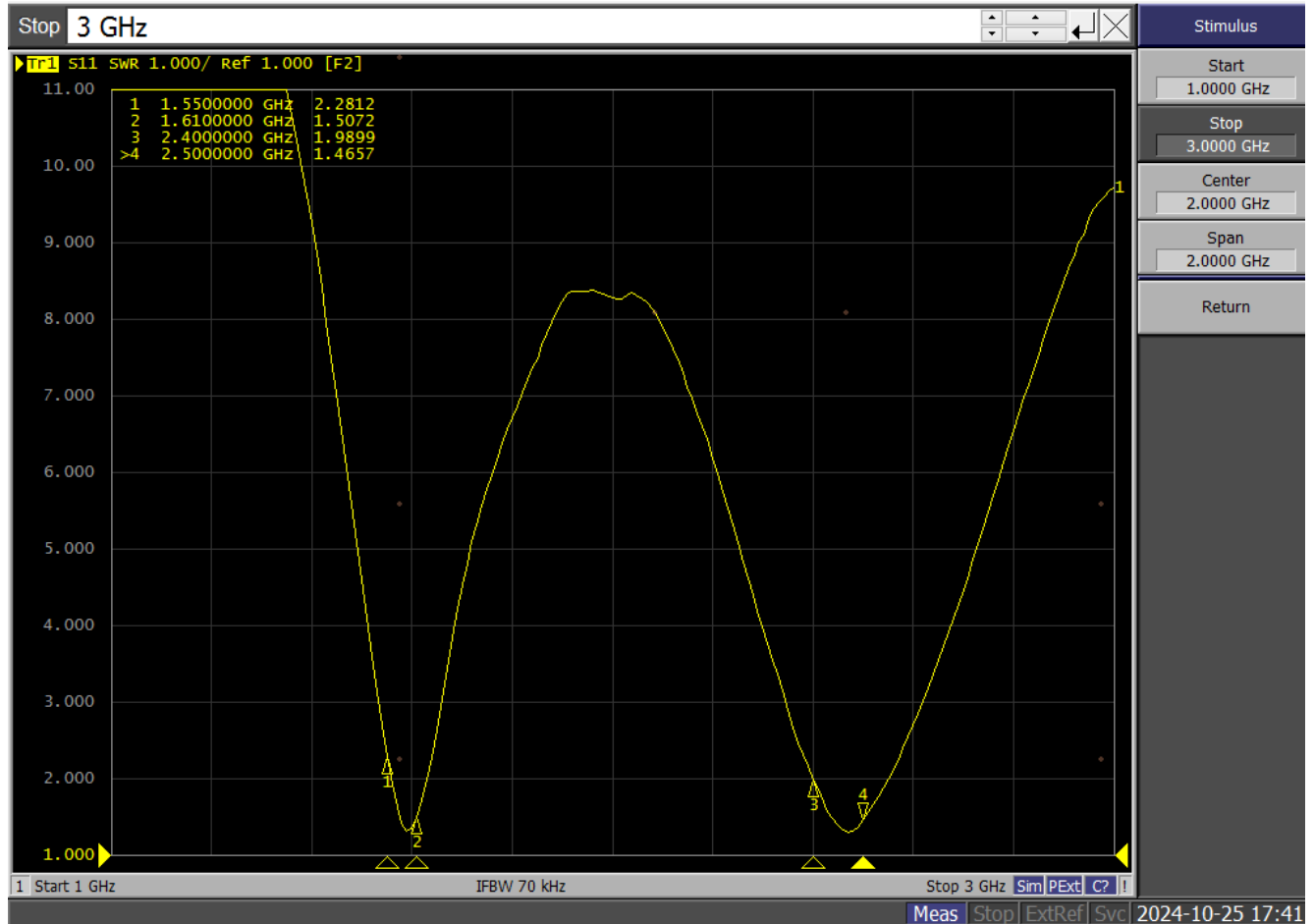
1.1 VSWR test

1.1.1 VSWR

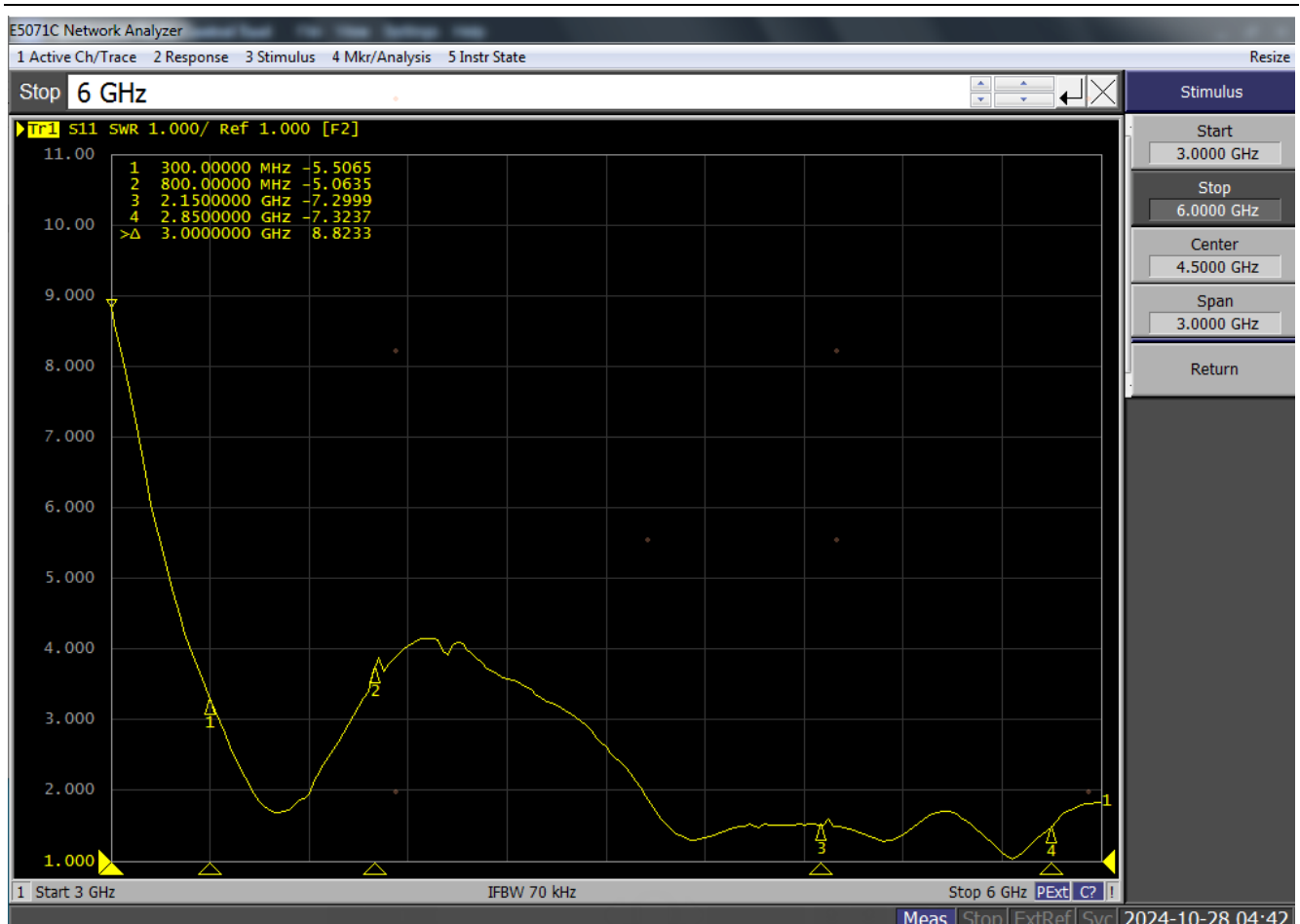
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize



Picture one: VSWR



Picture two: VSWR

1.2 BT/wifi/GPS antenna Gain test

BT/wifi/GPS antenna

- Model name (P/N) : MT287

-Antenna Type : PIFA

-Antenna Manufacturer : Dongguan Chengmao Precision Technology Co. , Ltd.

Manufacturer Address : 54 Shangxing Road, Shangjiao, Chang'an Town,Dongguan ,
Guangdong, China

Gain value is measured by Ding jie

Gain Value is measured in active call & Antenna selection.

Antenna gain is measured in ETS Chamber.

Test Equipment list

Description	Manufacturer	Model	Cal Due
Passive test equipment	Keysight	E5071C	2024/5/14-2025/5/13

1.2.1 test set up (ETS)

Please refer to set up photo

1.2.2 test result

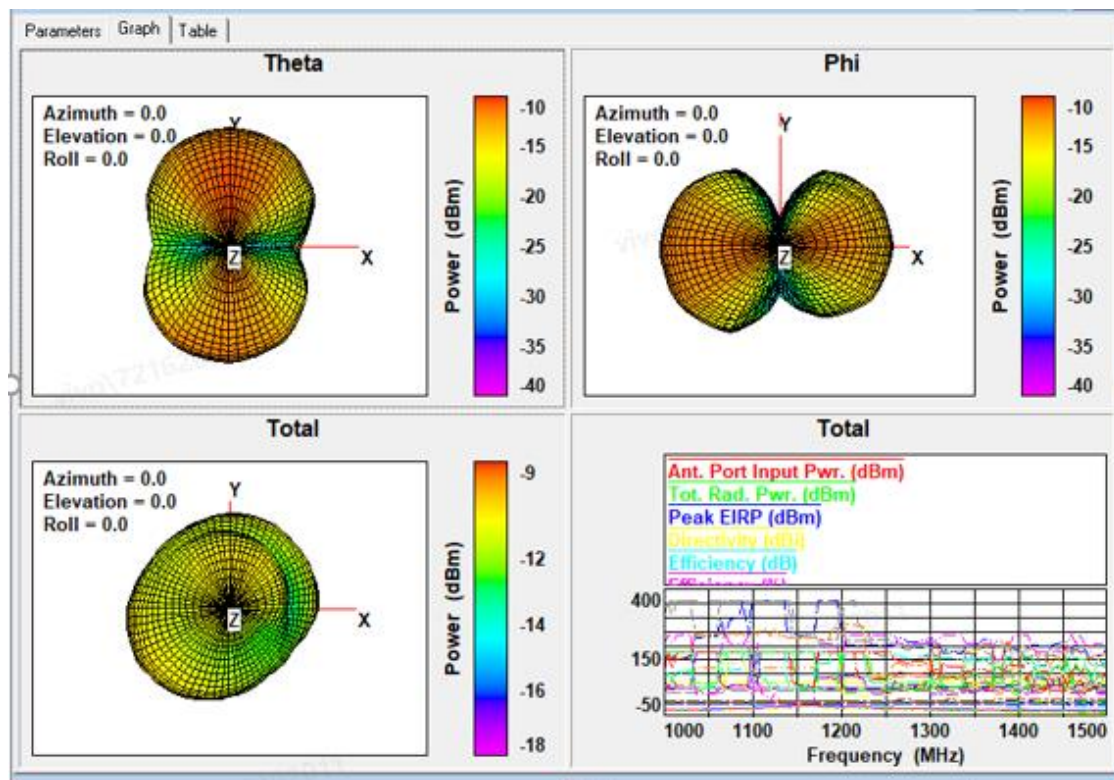
Frequency (MHz)	Gain (dBi)	Gain (dBi)
	GPS L5: 21#	GPS L1: 22#
1150	/	-10.23
1155	/	-9.87
1160	/	-9.43
1165	/	-9.47
1170	/	-9.53
1175	/	-9.88
1180	/	-10.32
1185	/	-10.80
1190	/	-11.47
1195	/	-11.96
1200	/	-12.37
1550	-3.50	/
1555	-3.30	/
1560	-3.07	/
1565	-2.80	/
1570	-2.72	/
1575	-2.61	/
1580	-2.51	/
1585	-2.43	/
1590	-2.45	/
1595	-2.47	/
1600	-2.38	/
1605	-2.31	/
1610	-2.34	/
1615	-2.34	/
1620	-2.40	/

1625	-2.55	/
1630	-2.70	/
1635	-3.01	/
1640	-3.28	/
1645	-3.54	/
1650	-3.79	/
Frequency (MHz)	Gain (dBi)	Gain (dBi)
	2.4G: 25#	2.4G: 22#
2400	-1.30	-1.24
2410	-0.68	-1.18
2420	-0.42	-1.34
2430	-0.29	-1.46
2440	0.09	-1.28
2450	0.34	-1.27
2460	0.36	-1.25
2470	0.46	-1.18
2480	0.53	-1.44
2490	0.15	-1.57
2500	0.24	-1.97
Frequency (MHz)	Gain (dBi)	Gain (dBi)
	5G: 23#	5G: 21#
5150	1.10	-0.73
5170	1.13	-0.50
5190	1.36	-0.73
5210	1.21	-0.97
5230	1.08	-0.76
5250	0.68	-1.19
5270	0.14	-1.46
5290	-0.54	-1.89
5310	-0.95	-2.10
5330	-1.05	-2.13
5350	-1.32	-2.06
5370	-1.36	-1.93
5390	-1.17	-1.37
5410	-1.01	-1.20
5430	-1.30	-0.96
5450	-1.29	-0.96
5470	-1.14	-0.48
5490	-1.14	-0.37
5510	-1.19	-0.14
5530	-1.00	0.18
5550	-1.20	0.35
5570	-1.01	0.57

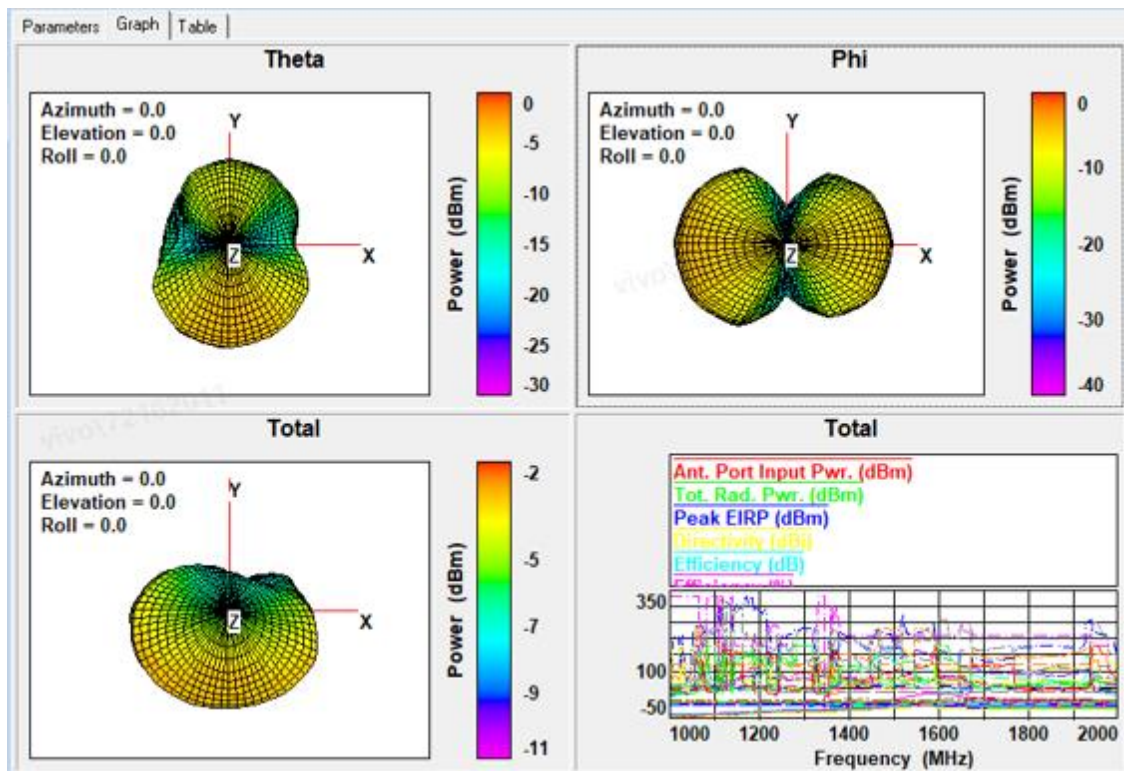
5590	-0.49	0.67
5610	0.08	0.99
5630	0.41	1.10
5650	0.73	1.20
5670	0.98	1.17
5690	1.21	1.13
5710	1.30	1.08
5730	1.17	0.87
5750	1.24	1.10
5770	0.99	0.51
5790	0.68	0.04
5810	0.57	-0.11
5830	0.18	-0.10
5850	0.09	-0.76

1.2.3 antenna radiation pattern

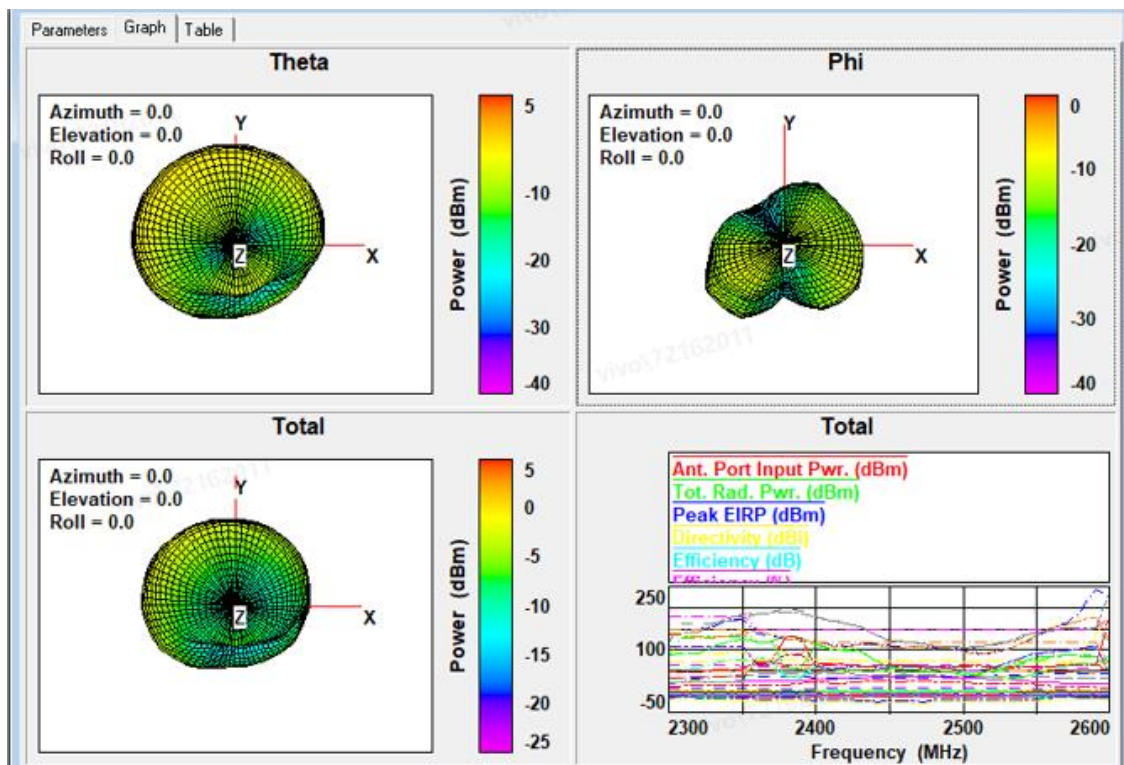
GPS1175MHz



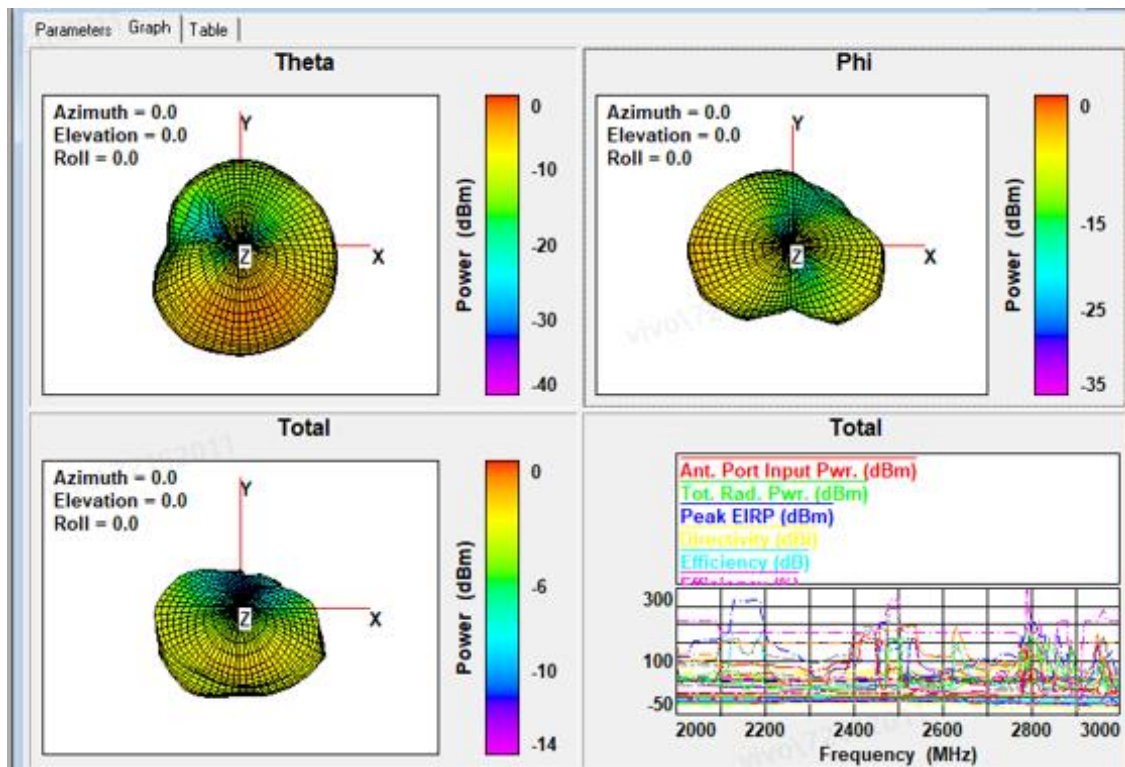
GPS 1575MHz:



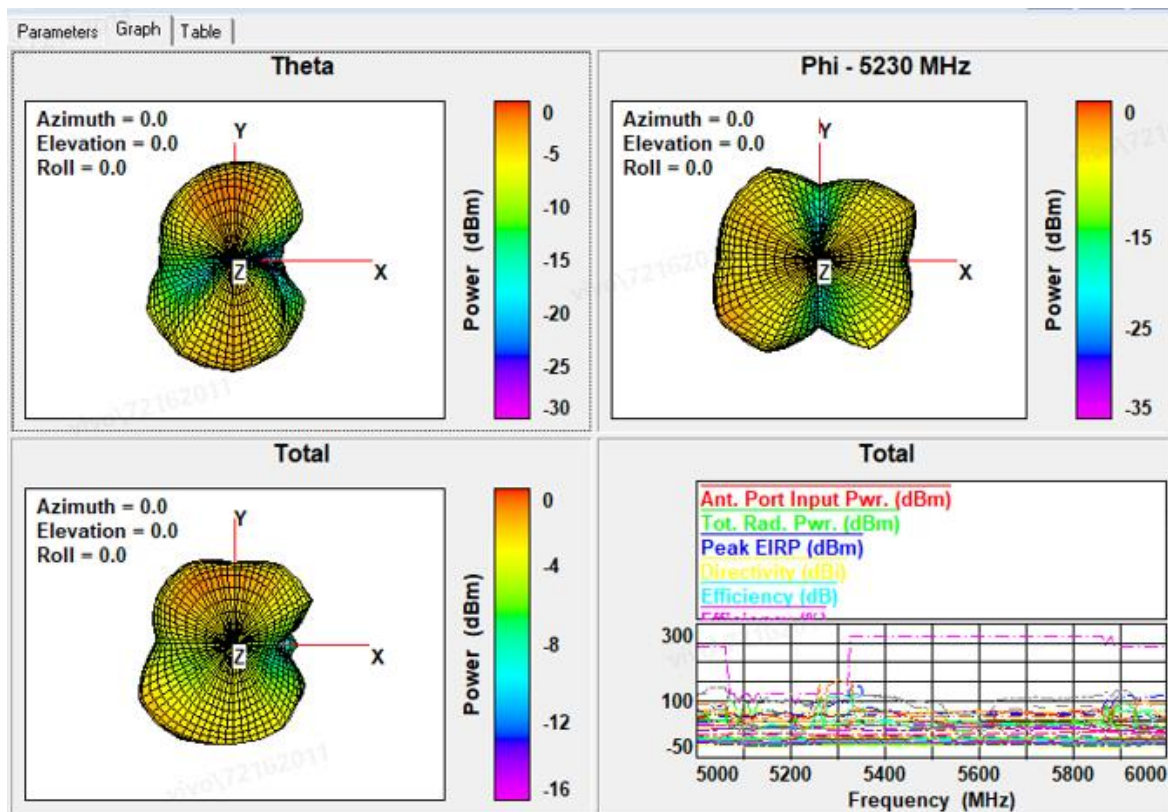
WIFI2.4G 25# 2450MHz:



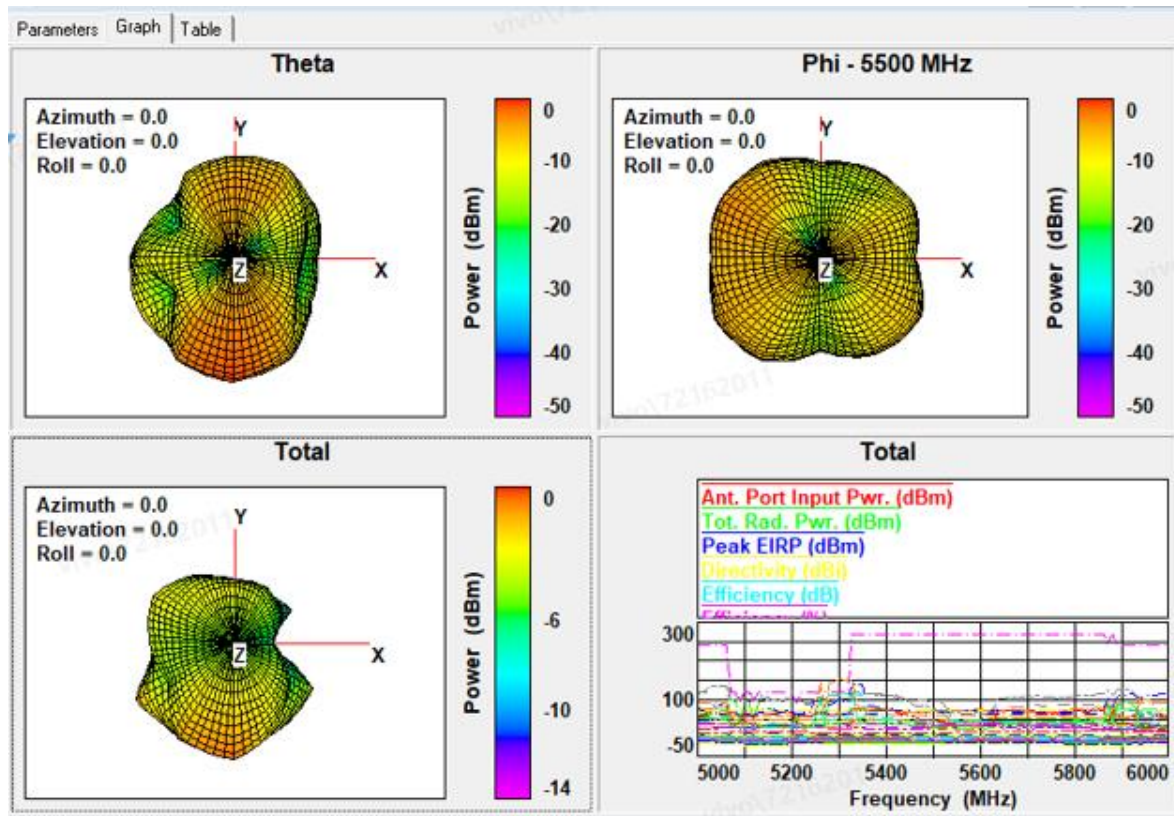
WIFI2.4G 22# 2450MHz:



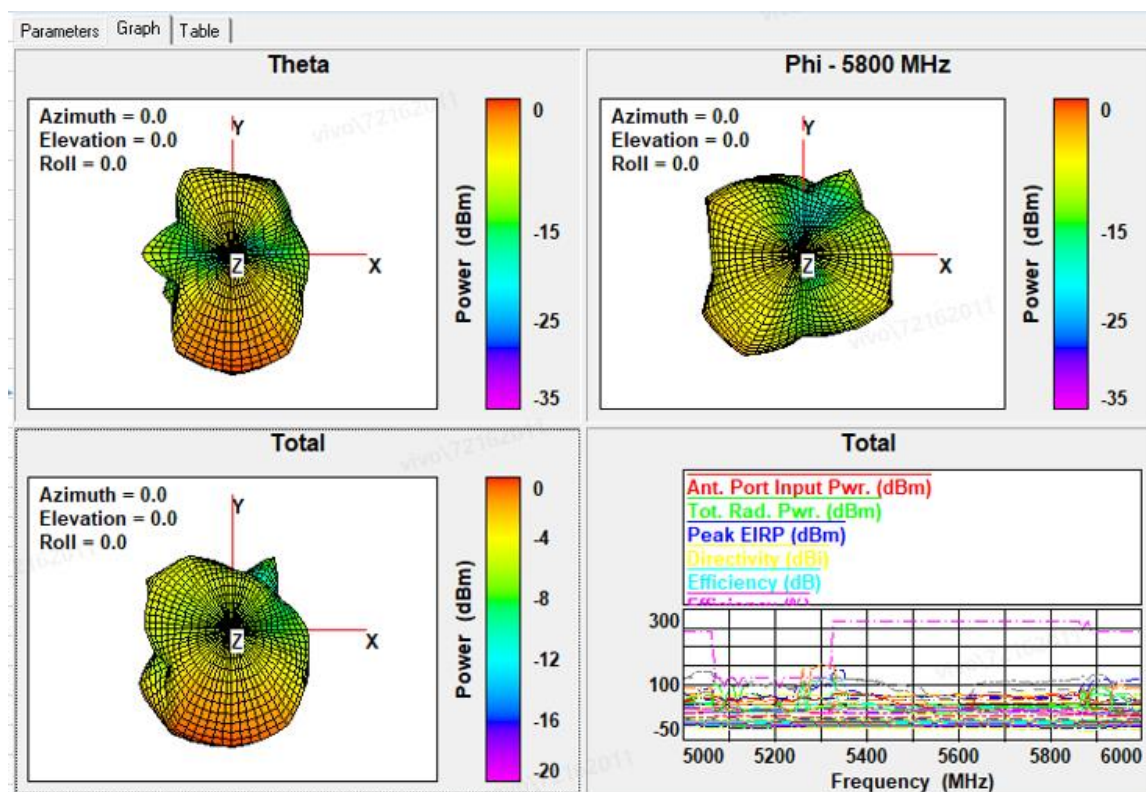
WIFI5.1G 21# 5230MHz:



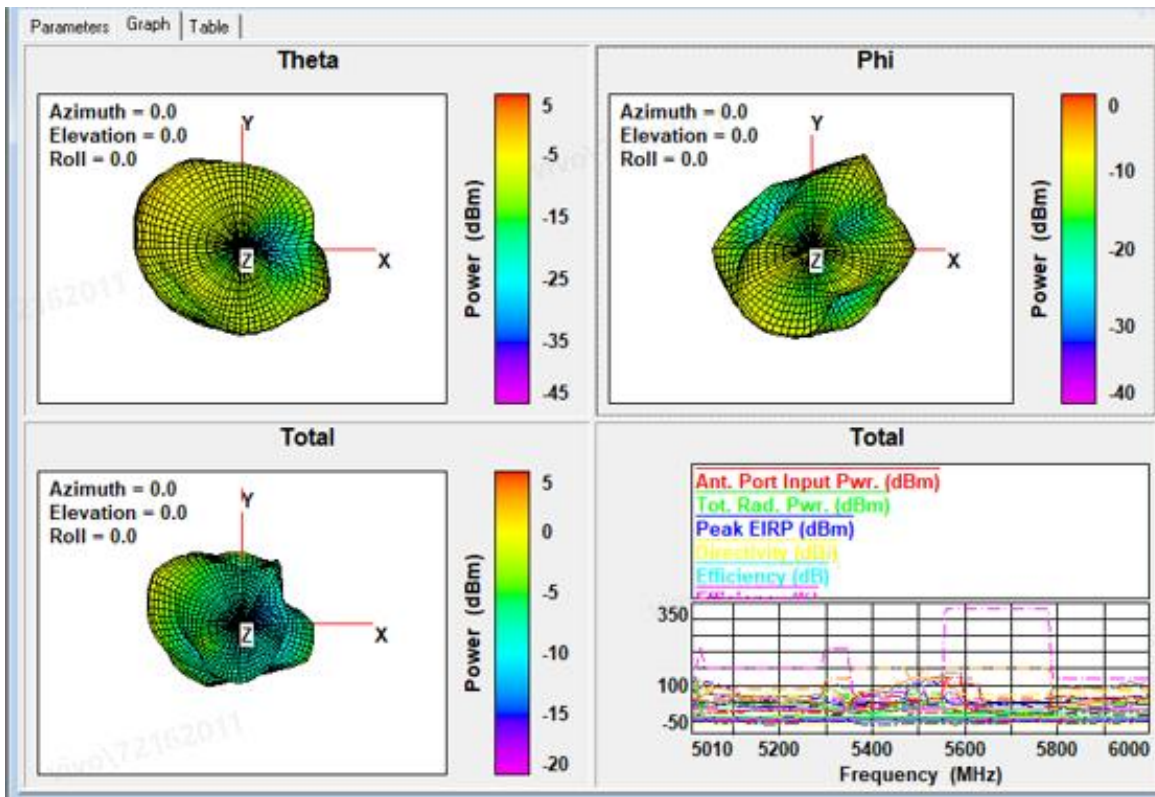
WIFI5.G 21# 5500MHz:



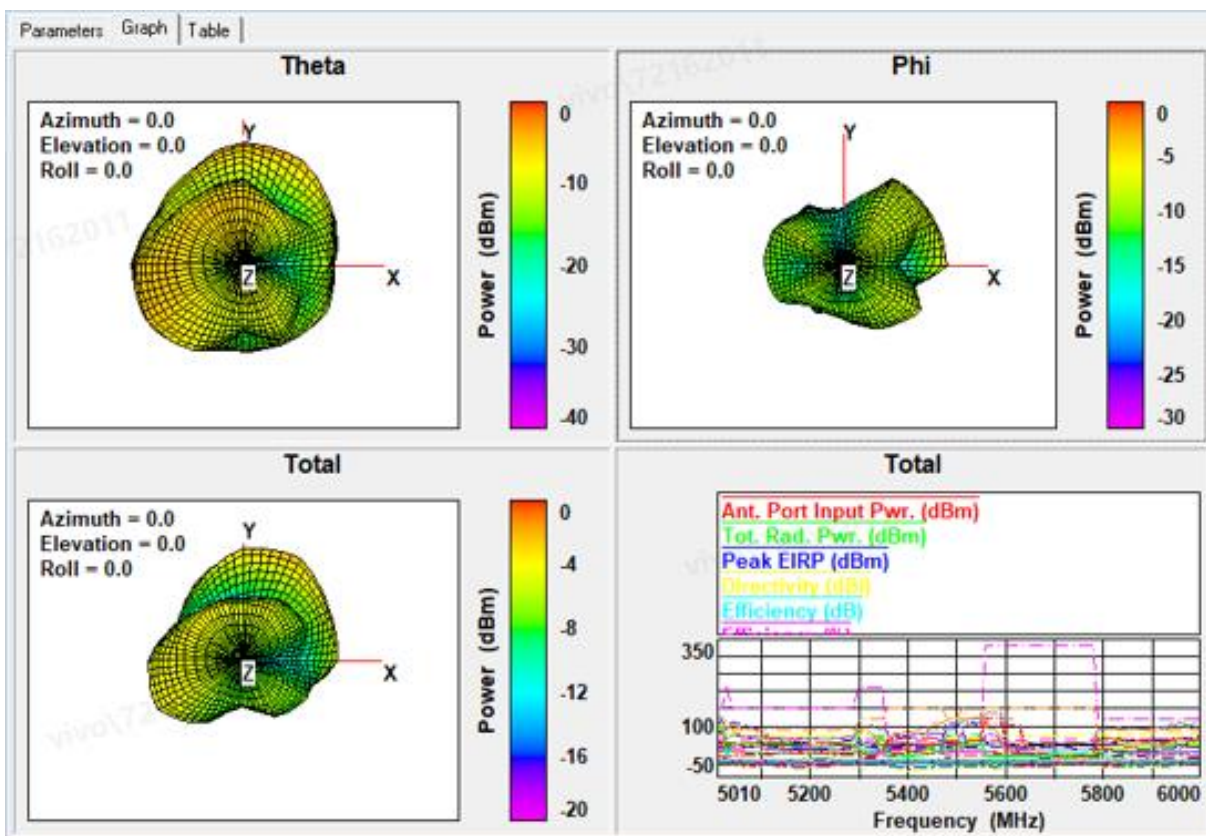
WIFI5.8G 21# 5800MHz:



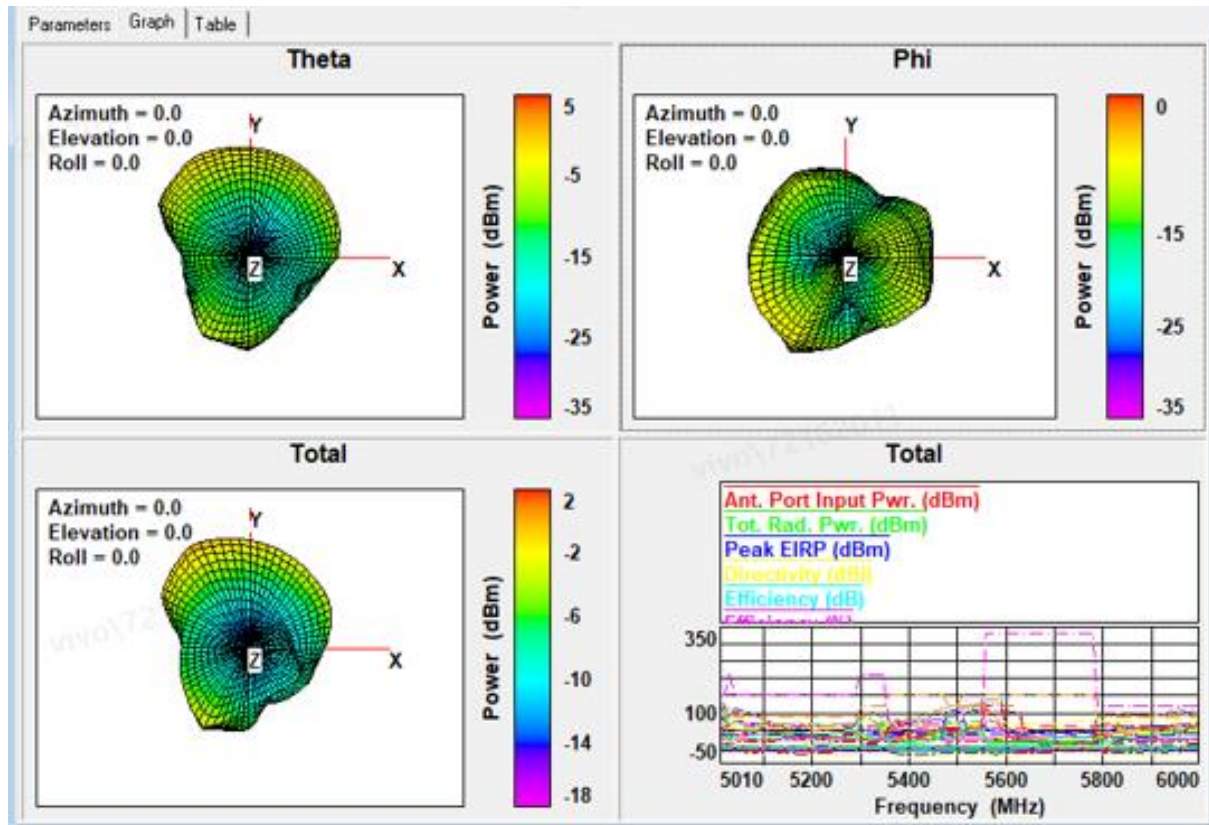
WIFI5.1G 23# 5230MHz:



WIFI5.5G 23# 5500MHz:



WIFI5.8G 23# 5790MHz:



2、NFC antenna

2.1 Antenna Type: Loop antenna

2.2 Antenna Dimension(mm): 37.08*23.35*0.21(L*W*H)

2.3 Manufacturer: Sunway Communication Co.,Ltd.

2.4 Manufacturer P/N: ET3201