

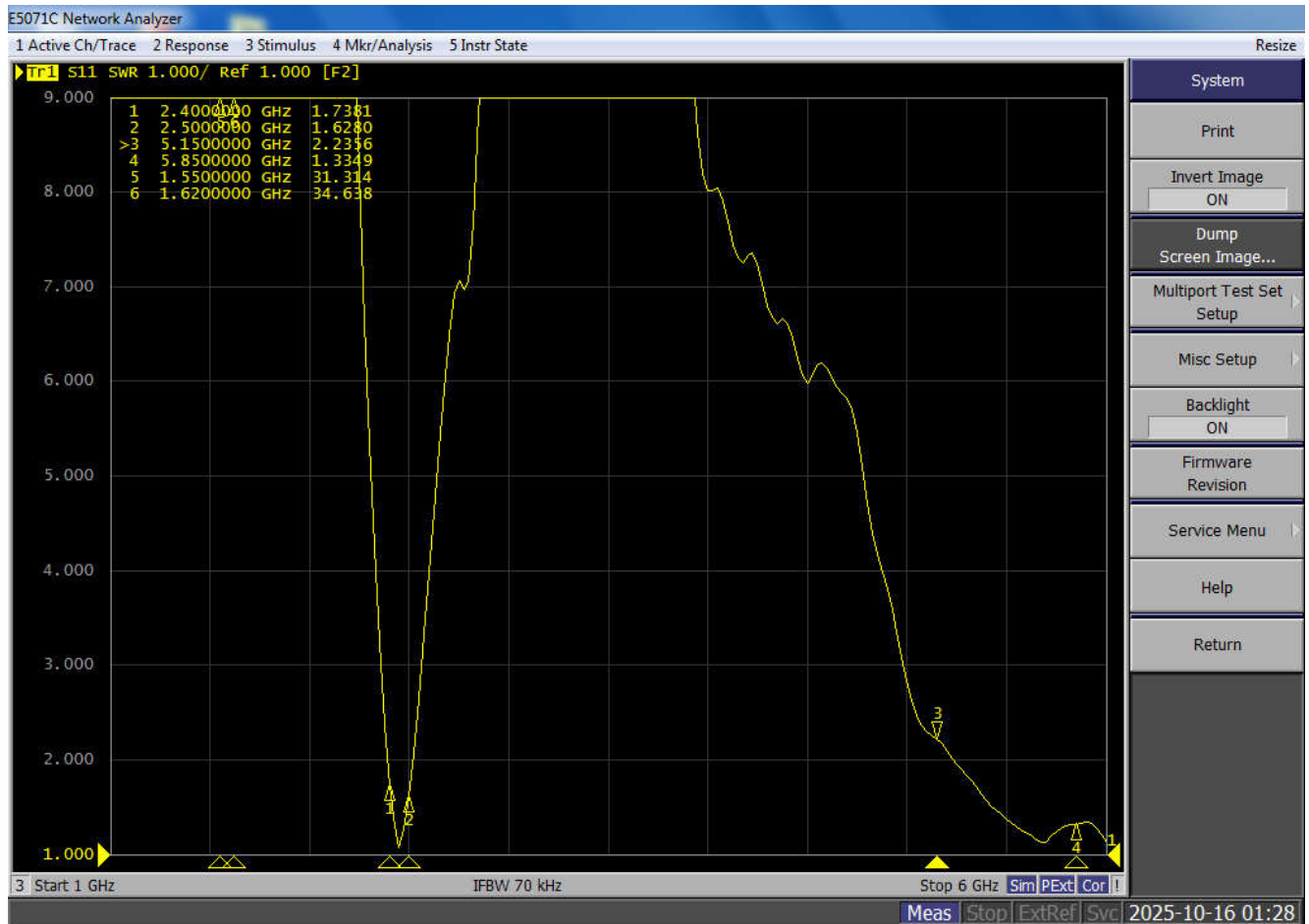
Antenna Specification

Brand	vivo	Model name	V2538
data	2025/10/17	Software version	PD2529F_EX_A_16.0 .4.2.W30

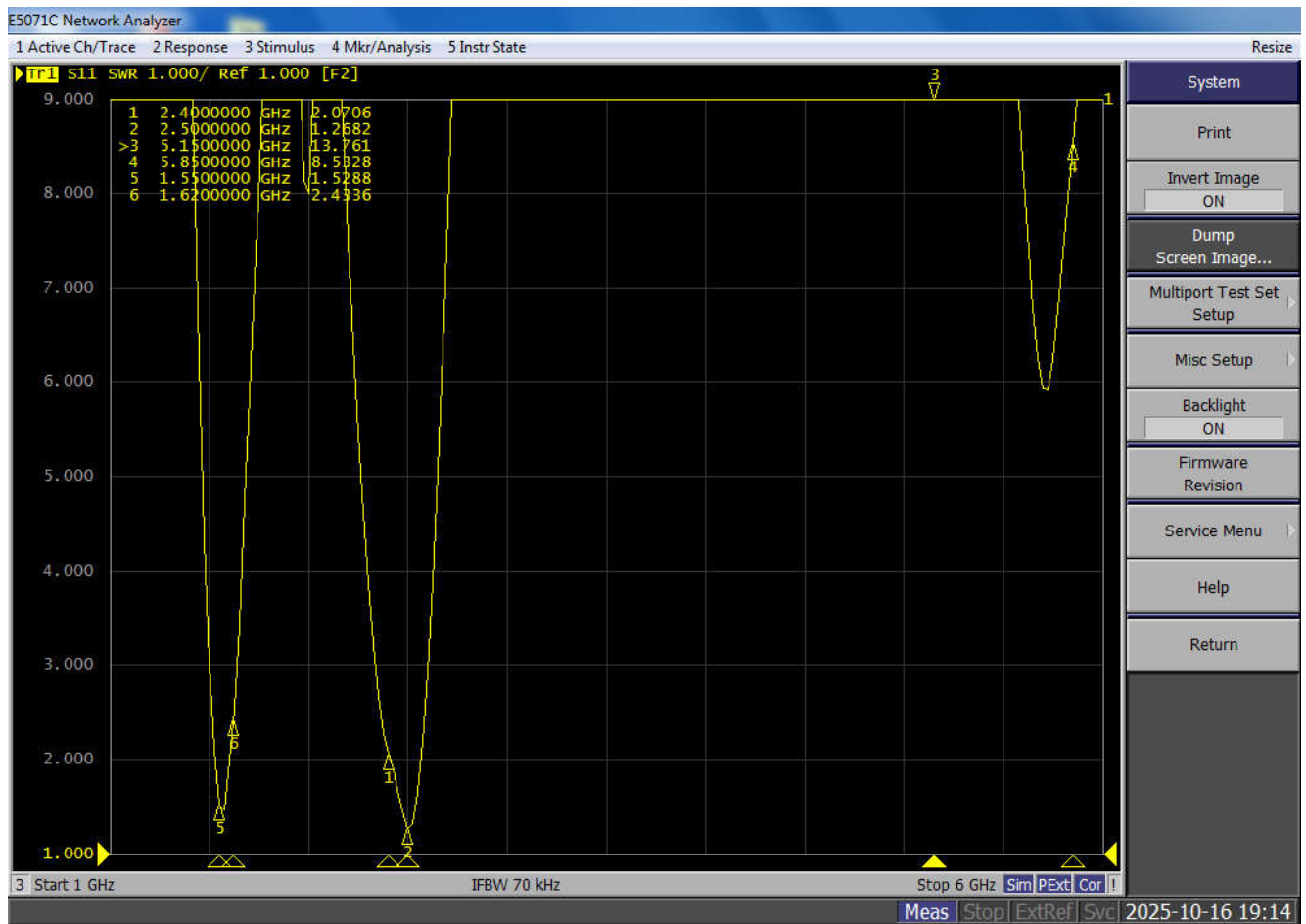
1、Test

1.1 VSWR test

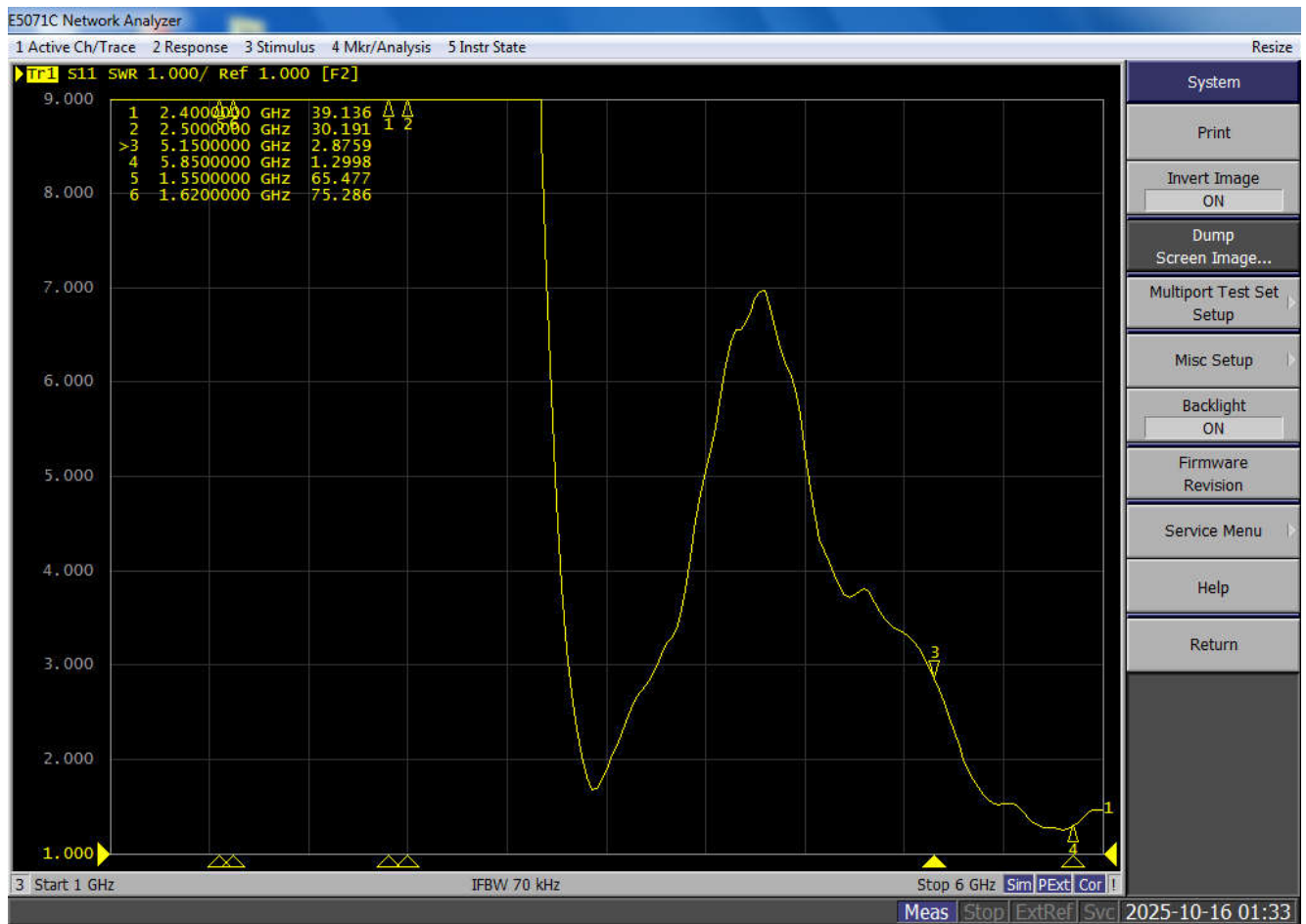
1.1.1 VSWR



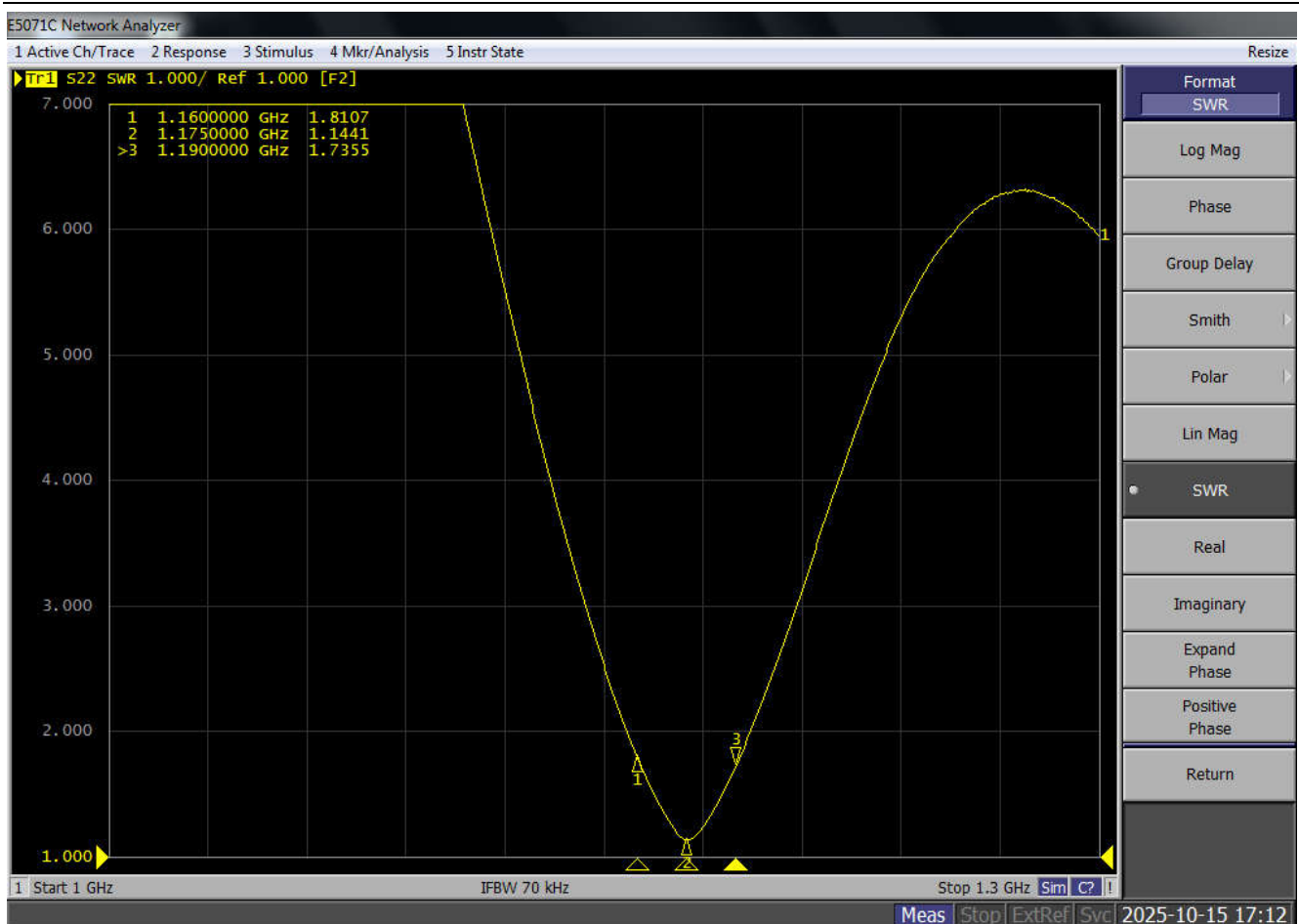
Picture one: VSWR (ANT.24)



Picture two: VSWR (ANT.23)



Picture three: VSWR (ANT.22)



Picture four: VSWR (GPS L5)

1.2 BT/wifi/GPS antenna Gain test

BT/wifi/GPS antenna

- Model name (P/N) : MTB311

-Antenna Type : IFA

-Antenna Manufacturer : Shenzhen Everwin Precision Technology Co., Ltd.

Manufacturer Address : Building 11,Three District of Qiaotou Fuqiao industry in
Fuyong Town, Baoan District, Shenzhen

Gain value is measured by **Liu Hongwu** *Liu Hongwu*

Gain Value is measured in active call & Antenna selection.

Antenna gain is measured in ETS Chamber.

Test Equipment list

Description	Manufacturer	Model	Cal Due
Network Analyzer	Keysight	E5071C	2025/5/6~2026/5/5
Network Analyzer	Keysight	E5071C	2025/4/29~2026/4/28

1.2.1 test result

1.2.2.1 GPS L5/L1/BT ch0&WIFI 2.4G ANT. 24/WIFI 5G ANT. 24

Frequency (MHz)	Gain (dBi)
1150	-11.50
1155	-11.01
1160	-10.34
1165	-10.02
1170	-9.54
1175	-9.35
1180	-9.24
1185	-9.13
1190	-9.17
1195	-9.12
1200	-9.14
1550	-4.17
1555	-4.42
1560	-4.44
1565	-3.92
1570	-3.84
1575	-3.71
1580	-3.72
1585	-3.77
1590	-3.74
1595	-3.76
1600	-3.71
1605	-3.71
1610	-3.77
1615	-3.75
1620	-3.74
1625	-3.85
1630	-3.94
1635	-4.13
1640	-4.34
1645	-4.59
1650	-4.74
2400	-0.81
2410	-0.55

2420	-0.44
2430	-0.27
2440	0.00
2450	0.11
2460	0.25
2470	0.31
2480	0.34
2490	0.32
2500	0.21
5150	0.35
5170	0.55
5190	0.59
5210	0.47
5230	0.97
5250	0.96
5270	1.00
5290	1.24
5310	1.28
5330	1.34
5350	1.11
5370	1.10
5390	0.96
5410	1.00
5430	0.76
5450	0.32
5470	0.56
5490	0.62
5510	0.72
5530	0.94
5550	1.10
5570	1.00
5590	1.00
5610	1.18
5630	1.07
5650	1.02
5670	0.68
5690	0.61
5710	0.28
5730	-0.18
5750	-0.19
5770	-0.72
5790	-1.21
5810	-1.60
5830	-1.71
5850	-1.94

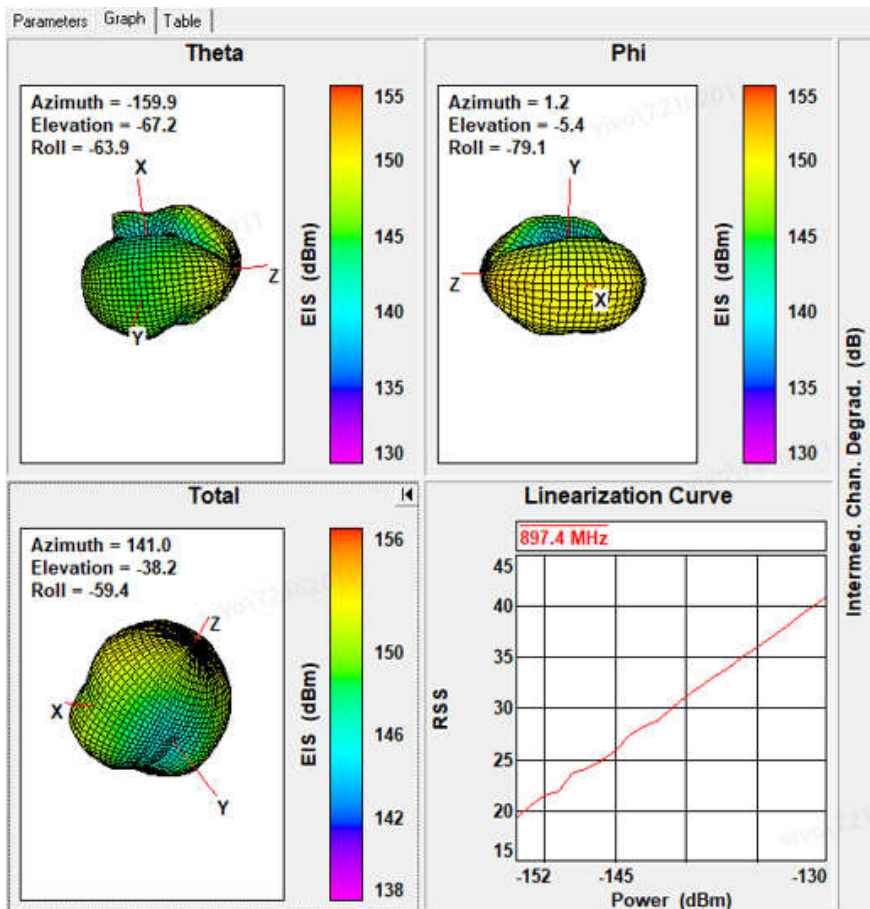
1. 2. 2. 2 BT ch1&WIFI 2. 4G ANT. 23/WIFI 5G ANT. 22

2400	-2.11
2410	-2.19
2420	-2.00
2430	-2.04
2440	-2.15
2450	-1.96
2460	-1.95
2470	-1.91
2480	-1.52
2490	-1.61
2500	-1.59
5150	-2.29
5170	-2.41
5190	-2.72
5210	-2.97
5230	-2.82
5250	-3.12
5270	-2.94
5290	-3.15
5310	-2.94
5330	-2.96
5350	-2.61
5370	-2.74
5390	-2.66
5410	-2.34
5430	-2.42
5450	-2.75
5470	-2.33
5490	-1.84
5510	-1.67
5530	-1.26
5550	-0.93
5570	-0.74
5590	-0.50
5610	-0.37
5630	-0.05
5650	-0.44
5670	-0.40
5690	-0.93
5710	-0.84
5730	-0.74
5750	-0.94

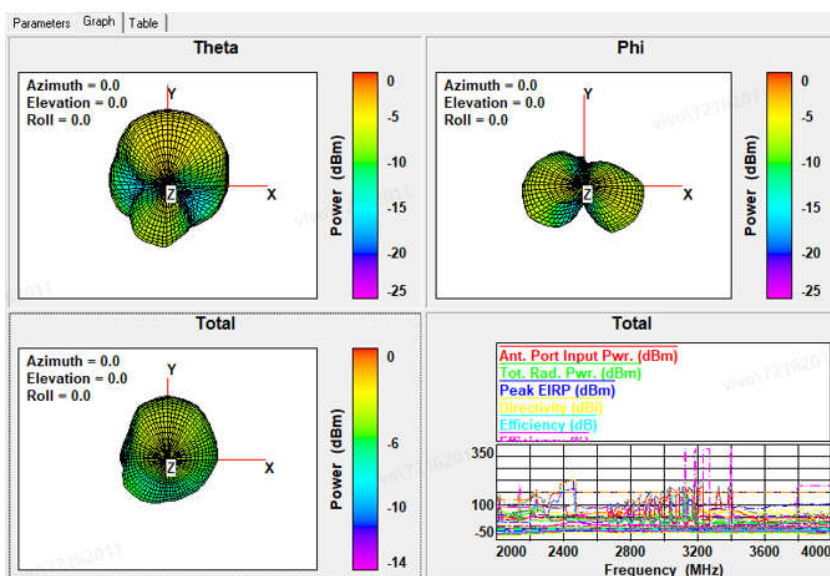
5770	-1.61
5790	-1.12
5810	-0.94
5830	-0.95
5850	-0.84

1.2.3 antenna radiation pattern

GPS 1575MHz:

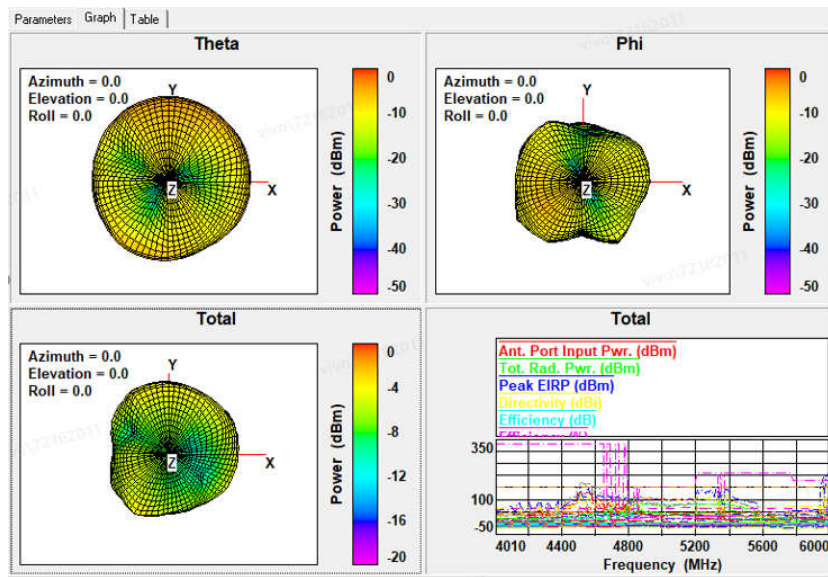


BT ANT. 24& WIFI2.4G ANT. 24 2450MHz

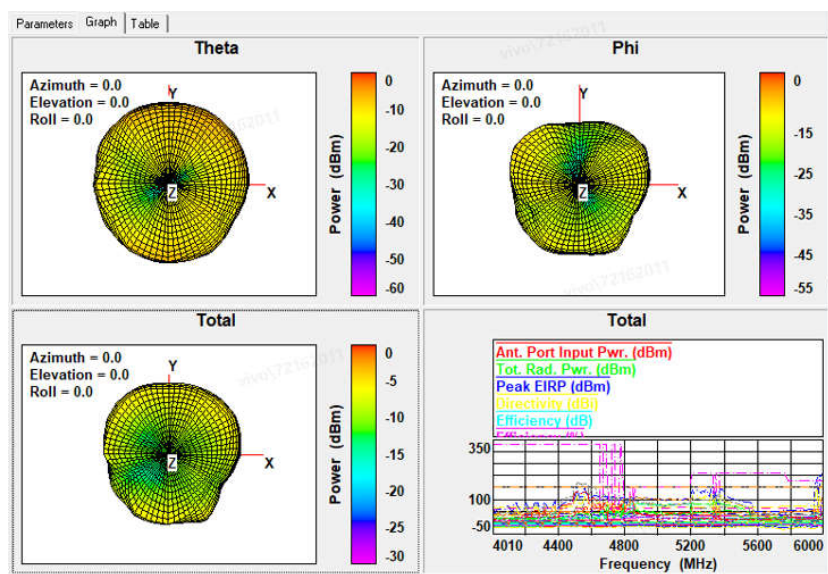


WIFI 5G ANT. 24

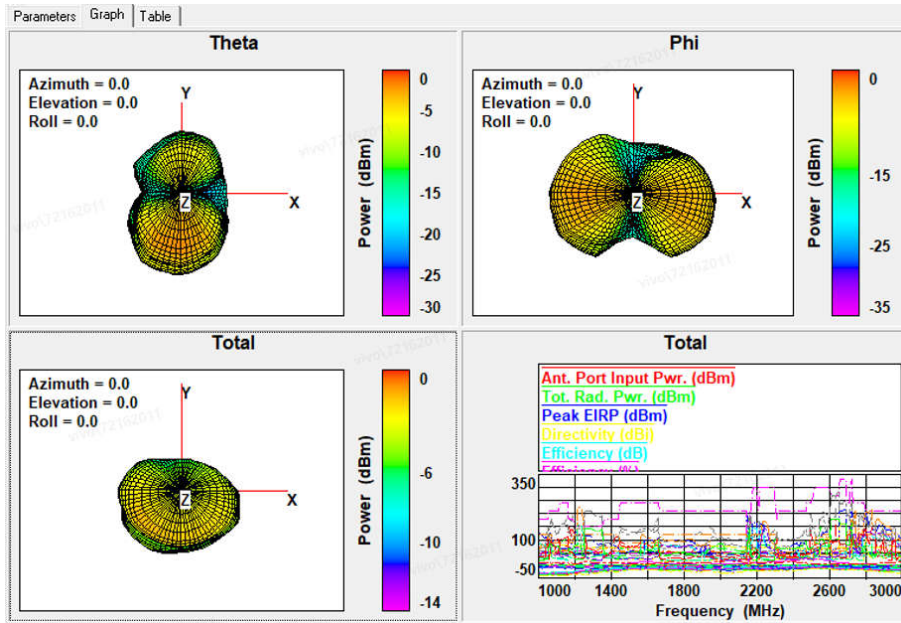
5350MHz:



5750MHz

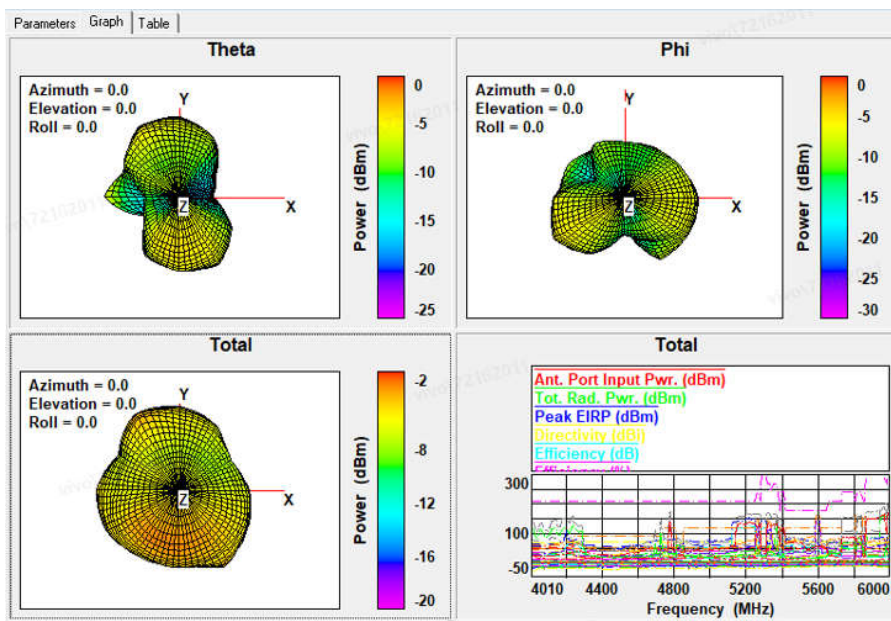


BT ch1& WIFI2.4G ANT. 23 2450MHz

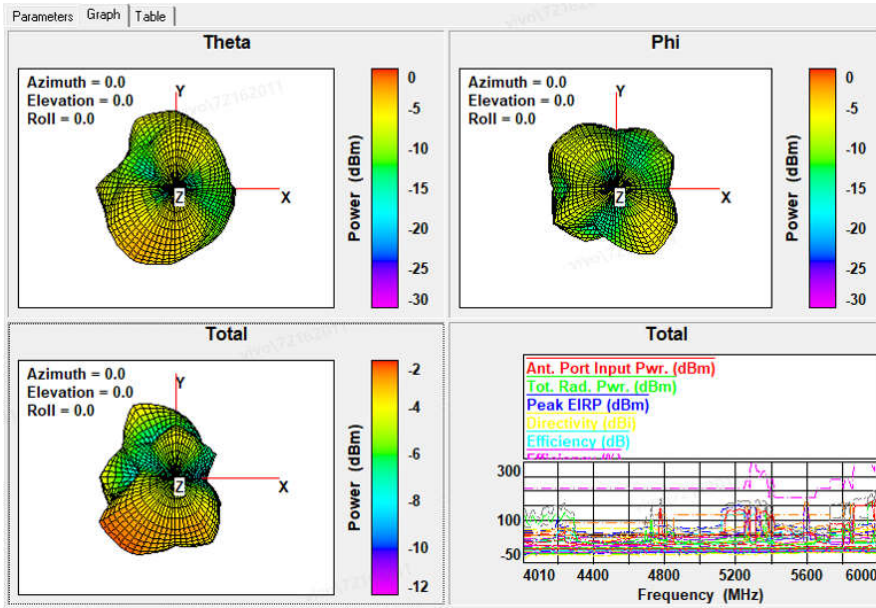


WIFI 5G ANT. 22

5250MHz:



5750MHz



2、NFC antenna

Antenna Type: Loop antenna

Antenna Dimension(mm): 30.11*36.42*0.21 (L*W*H)

Manufacturer: KunShan INNOWAVE Communication Technology Co.Ltd

Manufacturer P/N: MTB311(NM88)