

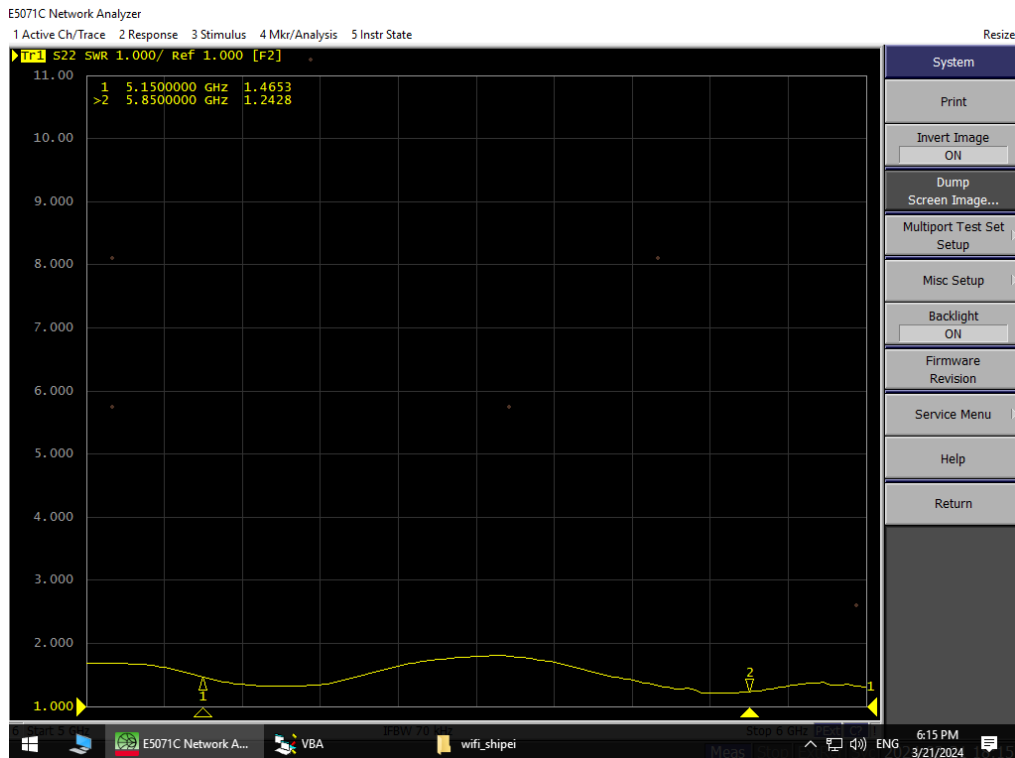
Antenna Specification

Brand	vivo	Model name	V2348
data	2024/4/15	Software version	PD2363F_EX_A_14.0.5.5.W3 0.V000L1

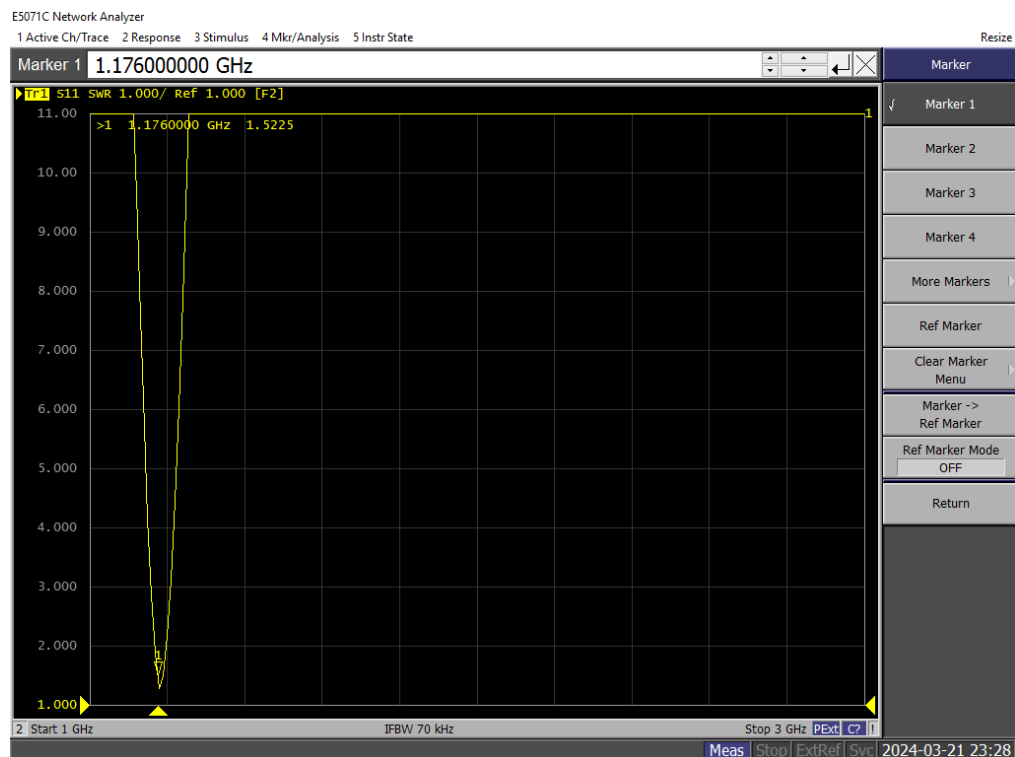
1、Test

1.1 VSWR test

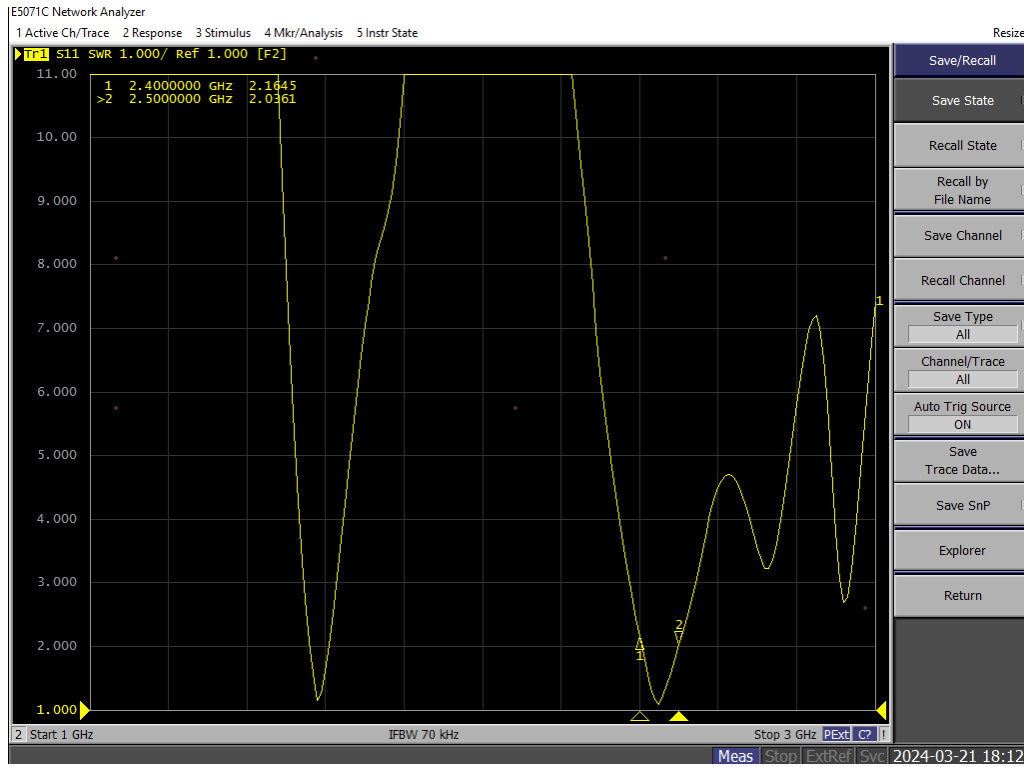
1.1.1 VSWR



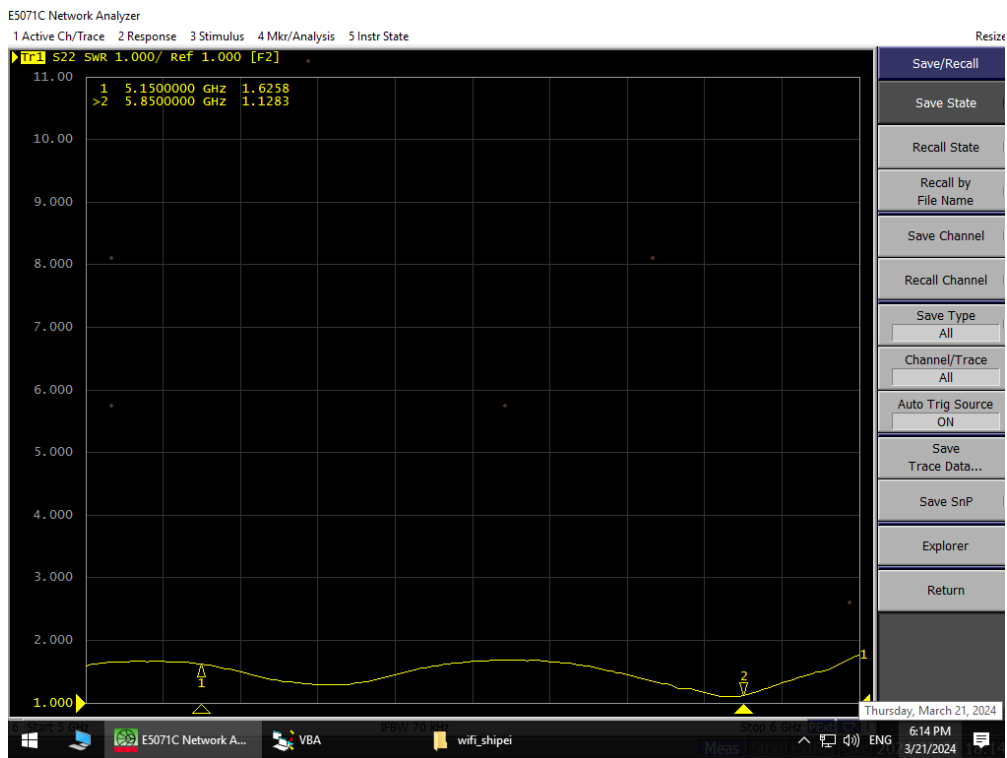
Picture 1: 21A# WIFI 5G CH0 VSWR



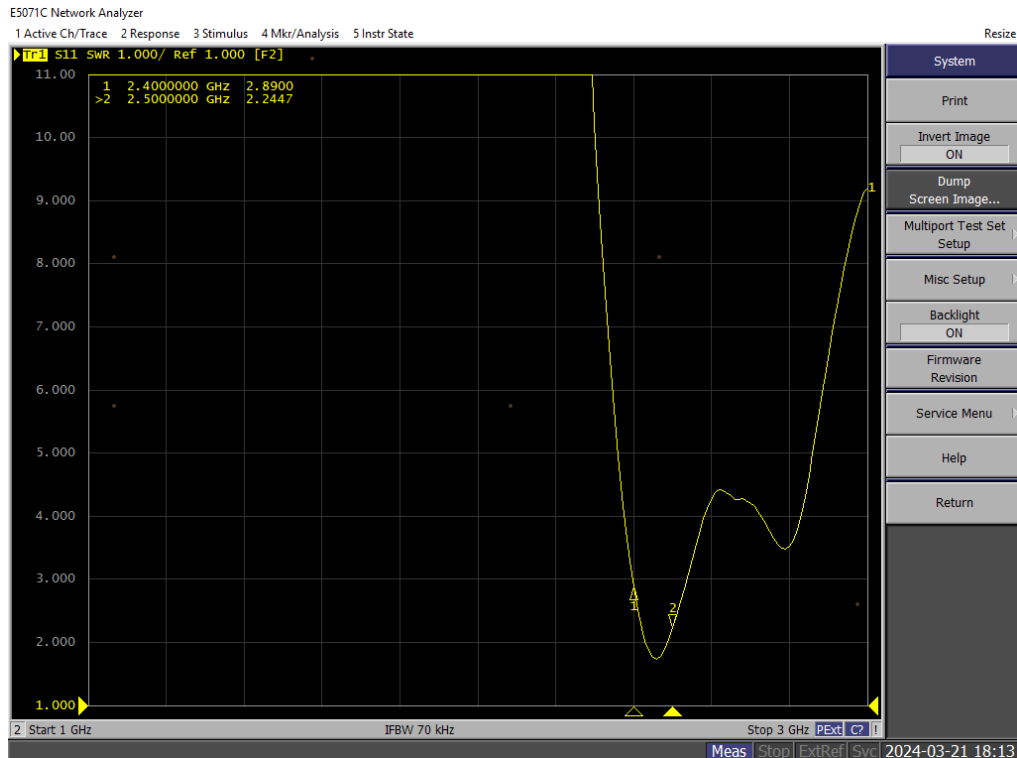
Picture 2: 21B# GPS L5 VSWR



Picture 3: 22# WIFI 2.4G CH0 、GPS L1 VSWR



Picture 4: 23# WIFI 5G CH1 VSWR



Picture 5: 23# WIFI 5G CH1 VSWR

1.2 BT/wifi/GPS antenna Gain test

BT/wifi/GPS antenna

- Model name (P/N) : ET3110

-Antenna Type : PIFA

-Antenna Manufacturer : Kunshan Ruixiang Xuntong Communication Technology Co., Ltd

Manufacturer Address : Building H, Jintu Zhizao Garden, No. 55 Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province

Gain value is measured by Li Ke

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	2024/3/6

1.2.1 test set up (ETS)

Refer to set up photos

1.2.2 test result

(1) 21A# WIFI 5G CH0:

Frequency (MHz)	Gain (dBi)
5150	-0.53
5160	-0.49
5170	-0.24
5180	-0.23
5190	-0.30
5200	-0.46
5210	-0.52
5220	-0.47
5230	-0.54
5240	-0.41
5250	-0.37
5260	-0.23
5270	-0.36
5280	-0.29
5290	-0.11
5300	0.02
5310	0.01
5320	-0.12
5330	0.02
5340	0.01
5350	0.04
5360	0.73
5370	0.82
5380	0.94
5390	0.91
5400	0.88
5410	0.85
5420	0.86
5430	0.98
5440	0.97

5450	1.00
5460	0.94
5470	1.04
5480	1.20
5490	1.21
5500	1.44
5510	1.43
5520	1.62
5530	1.70
5540	1.71
5550	1.69
5560	1.79
5570	1.72
5580	1.70
5590	1.52
5600	1.43
5610	1.34
5620	1.44
5630	1.29
5640	1.37
5650	1.33
5660	1.14
5670	1.08
5680	1.01
5690	1.06
5700	1.12
5710	1.26
5720	0.95
5730	0.86
5740	0.97
5750	1.00
5760	1.16
5770	1.16
5780	0.78
5790	0.58
5800	0.52
5810	0.49
5820	0.72
5830	0.65
5840	0.40
5850	0.33

(2) 21B# GPL L5:

Frequency (MHz)	Gain (dBi)
1150	-12.42

1151	-12.25
1152	-12.18
1153	-12.07
1154	-12.01
1155	-11.90
1156	-11.74
1157	-11.58
1158	-11.38
1159	-11.19
1160	-11.08
1161	-10.98
1162	-10.88
1163	-10.86
1164	-10.77
1165	-10.66
1166	-10.56
1167	-10.41
1168	-10.26
1169	-10.17
1170	-10.06
1171	-10.04
1172	-9.96
1173	-9.87
1174	-9.78
1175	-9.71
1176	-9.58
1177	-9.51
1178	-9.41
1179	-9.40
1180	-9.40
1181	-9.38
1182	-9.32
1183	-9.28
1184	-9.21
1185	-9.17
1186	-9.12
1187	-9.09
1188	-9.10
1189	-9.09
1190	-9.14
1191	-9.11
1192	-9.09
1193	-9.07
1194	-9.05
1195	-9.08

1196	-9.10
1197	-9.15
1198	-9.20
1199	-9.22
1200	-9.21

(3) 22# WIFI 2.4G CH0:

Frequency (MHz)	Gain (dBi)
2400	-1.03
2405	-0.84
2410	-0.86
2415	-0.73
2420	-0.68
2425	-0.59
2430	-0.45
2435	-0.30
2440	-0.18
2445	-0.13
2450	-0.18
2455	-0.25
2460	-0.28
2465	-0.35
2470	-0.20
2475	-0.16
2480	-0.35
2485	-0.88
2490	-0.76
2495	-1.29
2500	-1.13

(4) 22# GPL L1:

Frequency (MHz)	Gain (dBi)
1550	-3.91
1555	-3.47
1560	-3.20
1565	-2.85
1570	-2.64
1575	-2.47
1580	-2.32
1585	-2.23
1590	-2.23
1595	-2.31
1600	-2.40
1605	-2.40
1610	-2.50

(5) 23# WIFI 5G CH1:

Frequency (MHz)	Gain (dBi)
5150	1.06
5160	1.13
5170	1.44
5180	1.51
5190	1.29
5200	1.18
5210	1.14
5220	1.24
5230	1.20
5240	1.09
5250	1.02
5260	1.01
5270	0.77
5280	0.62
5290	0.60
5300	0.38
5310	0.33
5320	0.32
5330	0.31
5340	0.17
5350	0.12
5360	-0.03
5370	-0.23
5380	-0.10
5390	-0.08
5400	-0.09
5410	0.16
5420	0.20
5430	0.28
5440	0.35
5450	0.32
5460	0.25
5470	0.33
5480	0.31
5490	0.42
5500	0.60
5510	0.48
5520	0.49
5530	0.58
5540	0.53
5550	0.57
5560	0.39

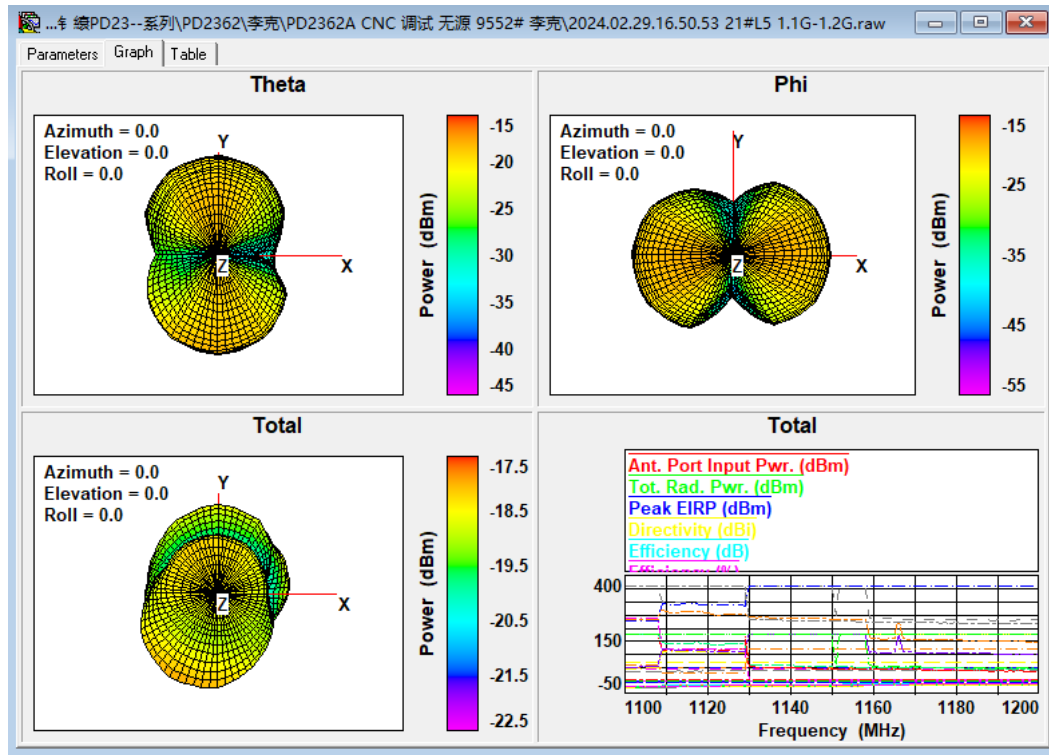
5570	0.05
5580	-0.01
5590	0.15
5600	0.04
5610	-0.07
5620	-0.28
5630	-0.38
5640	-0.39
5650	-0.56
5660	-0.91
5670	-0.76
5680	-0.66
5690	-0.70
5700	-0.53
5710	-0.60
5720	-0.64
5730	-0.56
5740	-0.39
5750	-0.24
5760	-0.23
5770	-0.08
5780	-0.20
5790	-0.23
5800	-0.03
5810	-0.18
5820	-0.09
5830	-0.17
5840	-0.21
5850	-0.05

(6) 25# WIFI 2.4G CH1

Frequency (MHz)	Gain (dBi)
2400	-3.64
2410	-3.66
2420	-3.55
2430	-3.10
2440	-3.00
2450	-3.16
2460	-2.99
2470	-2.77
2480	-3.17
2490	-3.19
2500	-3.28

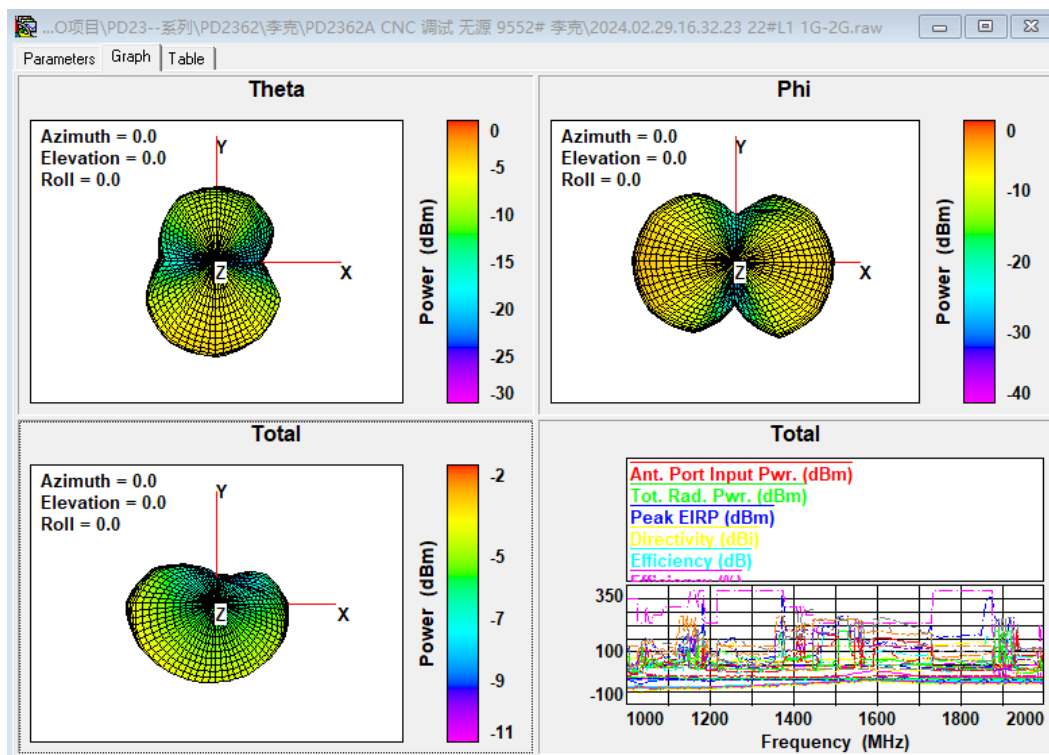
1.2.3 antenna radiation pattern

GPS L5: 1176MHz:

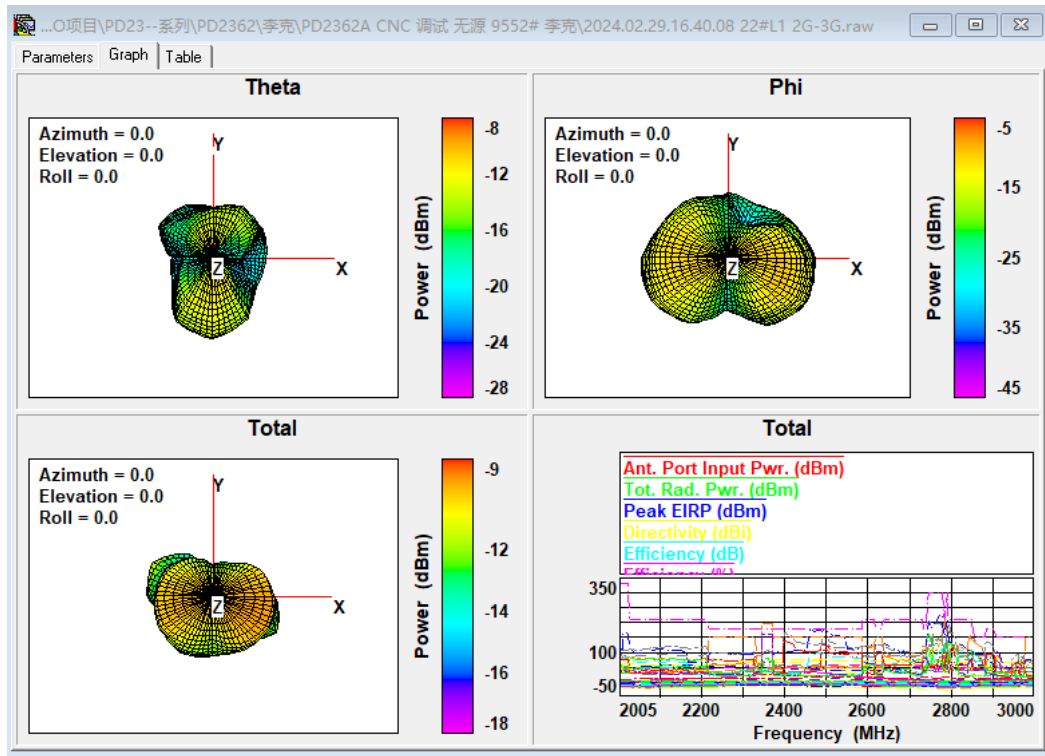


Picture 7: GPS L5 radiation patten

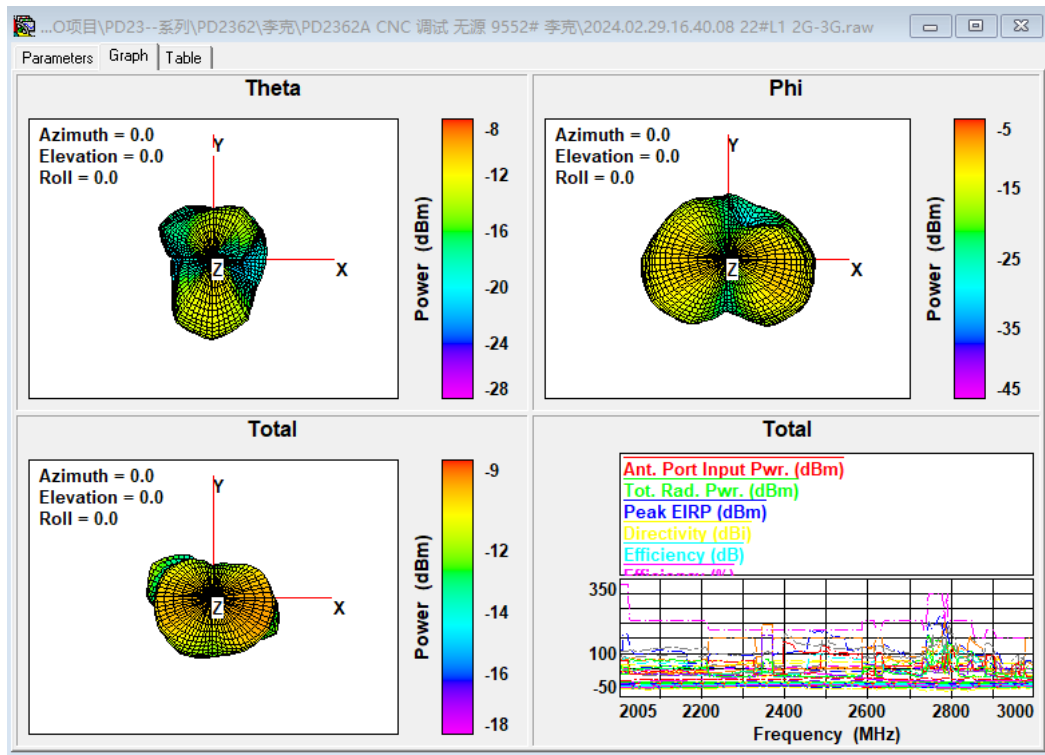
GPS L1: 1575MHz:



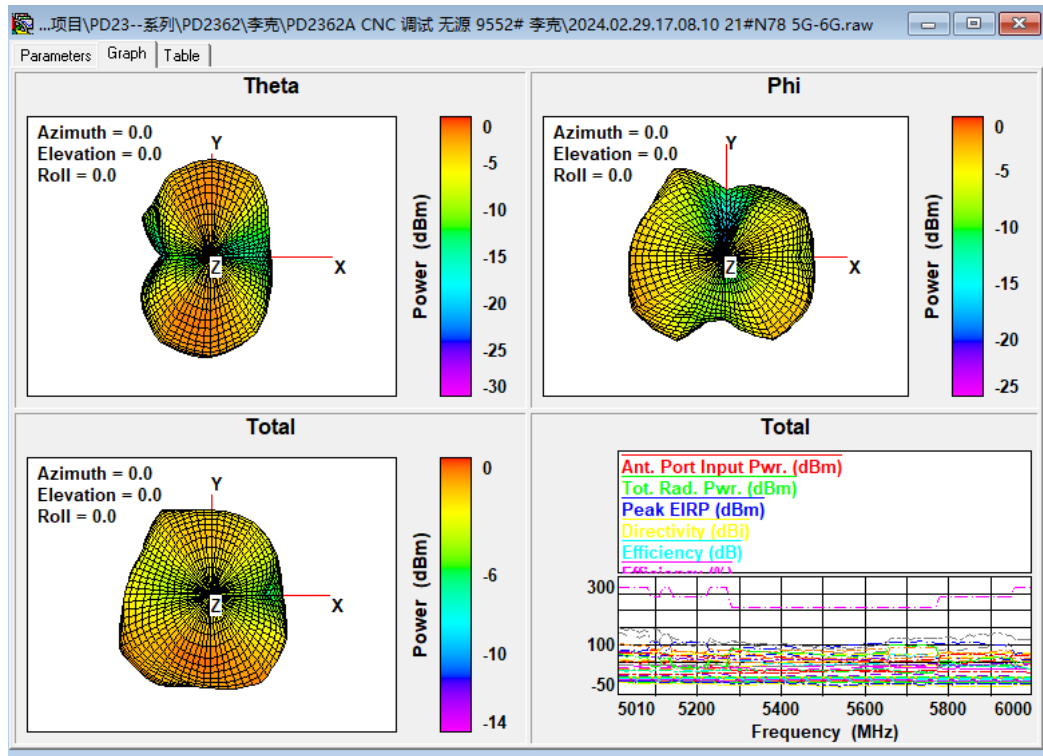
WIFI2.4G CH0 2450MHz:



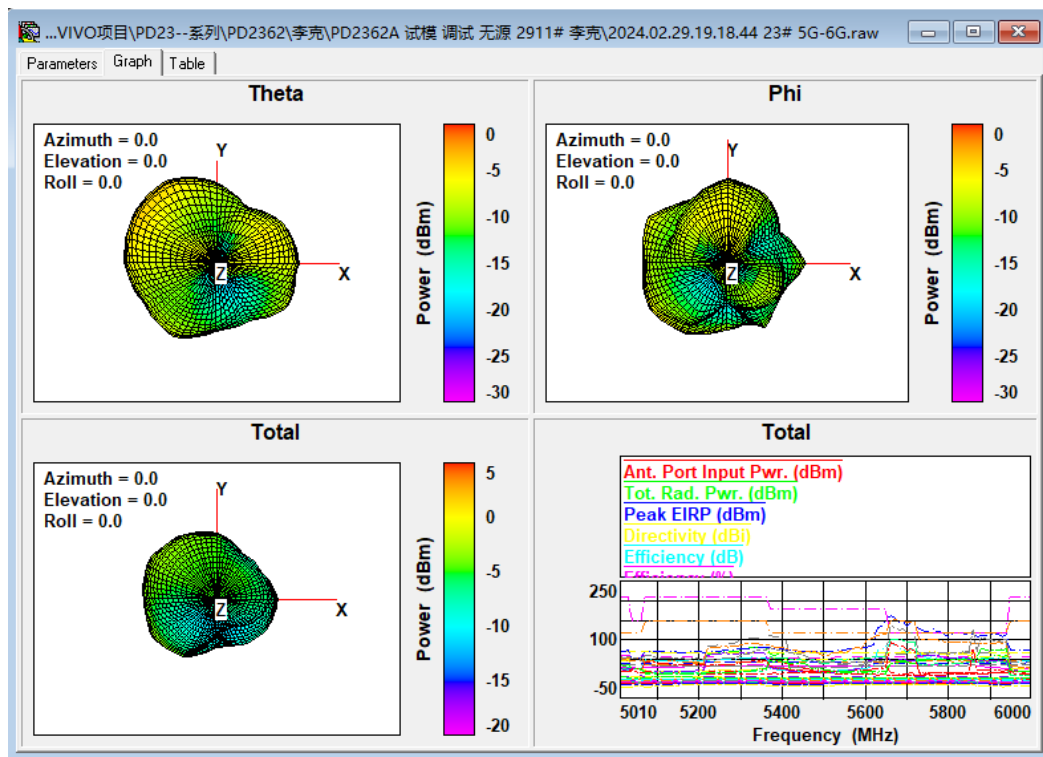
WIF12.4G CH1 2450MHz:



WIF15.8G CH0 5500MHz:



WIFI5.8G CH1 5500MHz:



2、NFC antenna

2.1 Antenna Type: Loop antenna

2.2 Antenna Dimension(mm): 31.66*26.58*0.11(L*W*H)

2.3Manufacturer: Kunshan Ruixiang Xuntong Communication Technology Co., Ltd

2.4 Manufacturer P/N: ET3110