

Shenzhen Yishengbang Technology Co., Ltd.

Shenzhen Yi Sheng Bang technology Co., LTD Antenna Test Report

Customer: SIXUNITED

Project: M8781-T30J-126HC

Product: LTE/W/G/B Antenna

Report date: 2025-07-07

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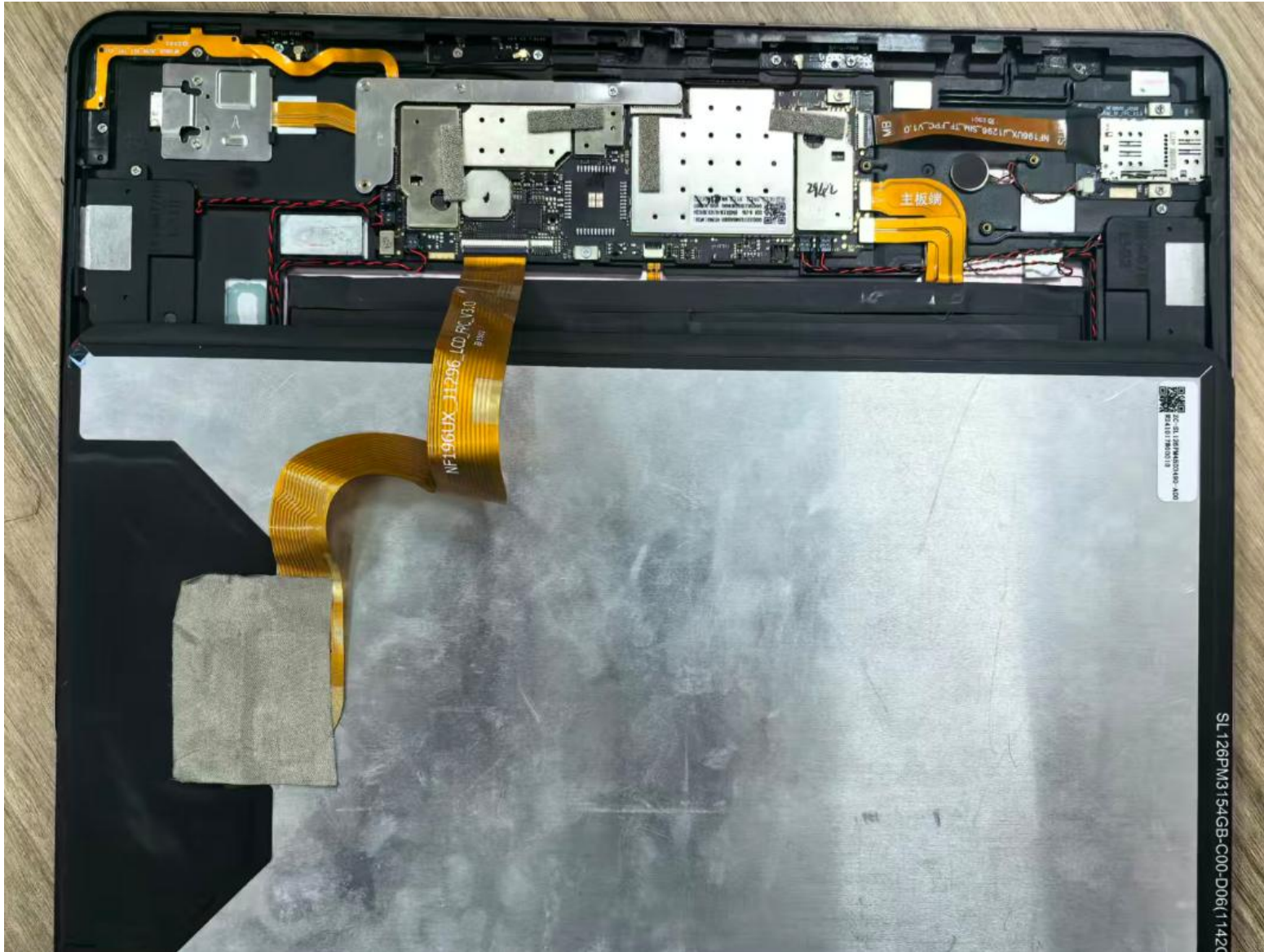
Purpose

This report is to measure the performance of SLK for Master Antenna on SIXUNITED . All measure data are showed below.

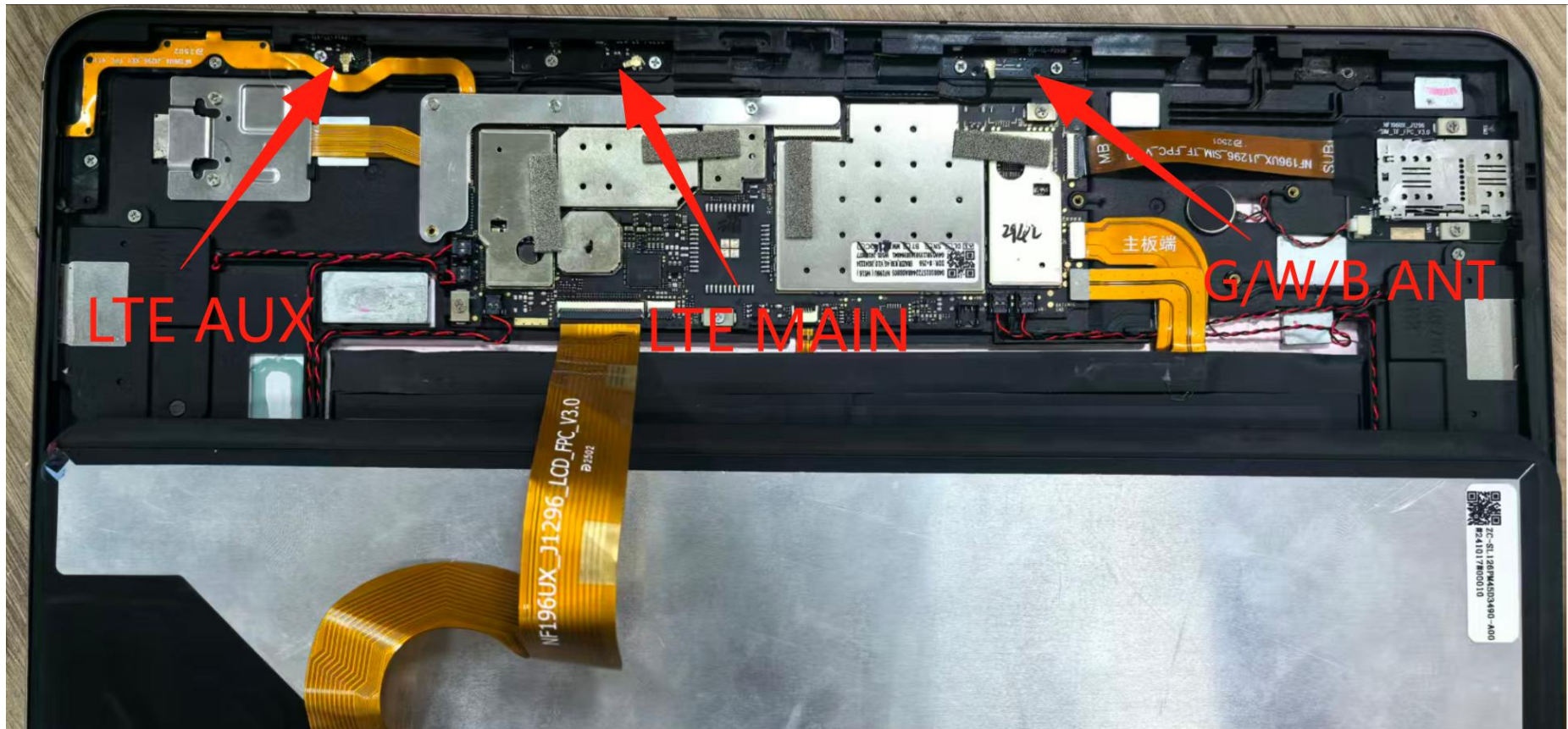
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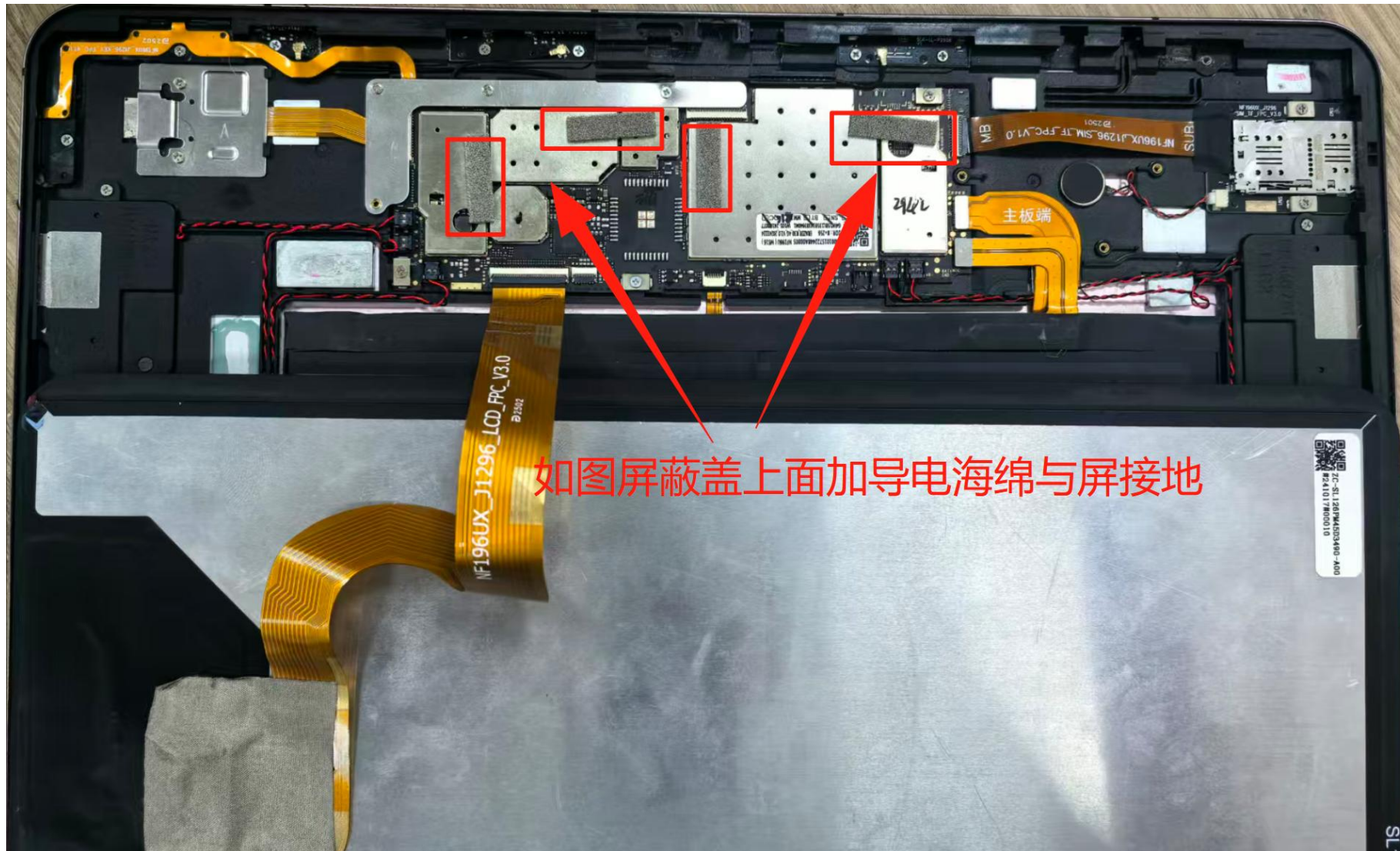
1. Product Overview & Dimension



1. Product Overview & Dimension

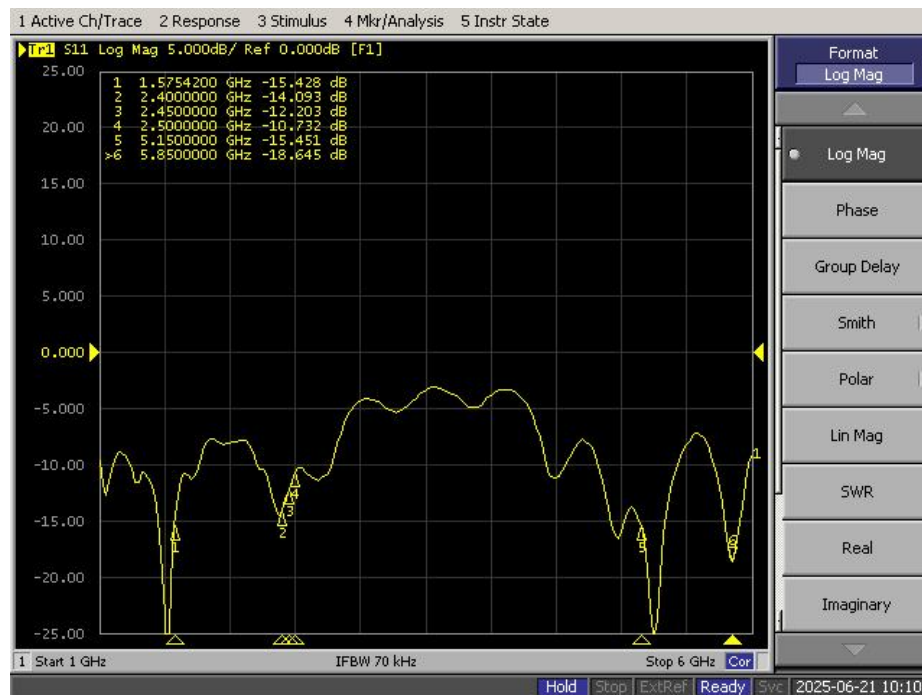


1. Product Overview & Dimension



2. Test Result

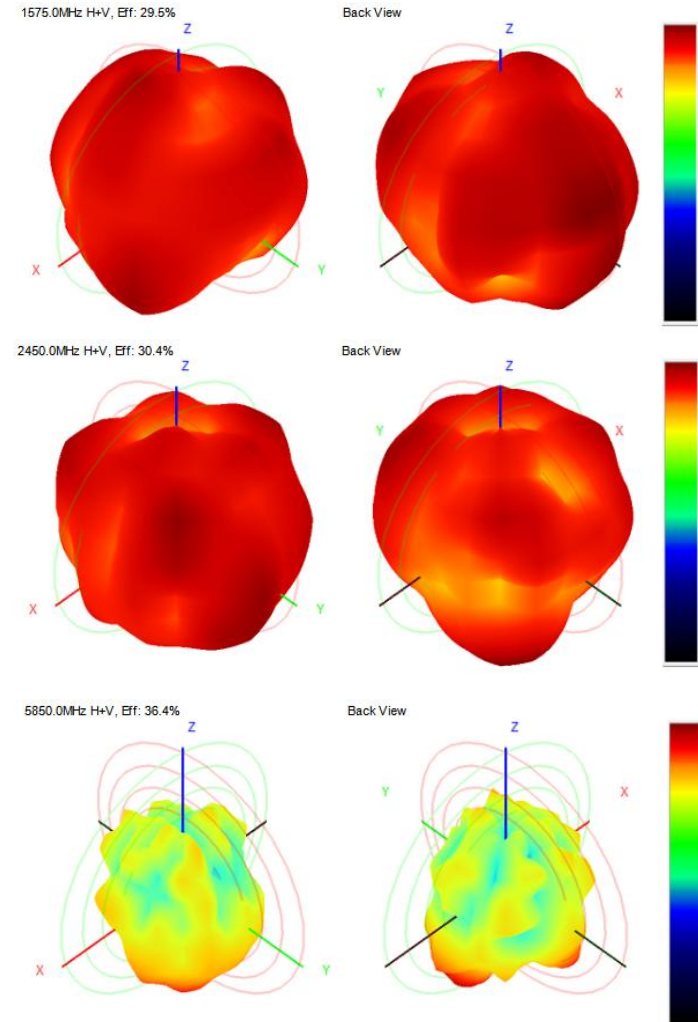
2.1 WIFI Antenna VSWR/S11



2. Test Result

2.2 WIFI Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
1570.0	-5.33	1.02	29.32
1575.0	-5.30	1.03	29.48
1580.0	-5.28	1.01	29.62
2400.0	-5.38	1.79	28.96
2410.0	-5.50	1.11	28.19
2420.0	-5.40	1.54	28.82
2430.0	-5.31	1.44	29.47
2440.0	-5.32	1.45	29.39
2450.0	-5.18	1.76	30.35
2460.0	-5.28	1.10	29.65
2470.0	-5.30	1.94	29.50
2480.0	-5.31	1.95	29.44
2490.0	-5.44	1.20	28.59
2500.0	-5.51	1.42	28.09
5150.0	-5.55	2.73	27.87
5350.0	-5.45	2.27	28.48
5550.0	-4.88	2.86	32.49
5750.0	-4.49	2.61	35.53
5850.0	-4.39	2.63	36.36



2. Test Result

2.3 WIFI Antenna TRP/TIS

WiFi OTA Test Result							
Status	Standard		Rate	Test item	CH	TRP(dBm)	TIS(dBm)
2.4G	WiFi 11b_TRP&TIS	802.11b	TRP 11M TIS 11M	TRP/TIS(3D)	1	9.44	-79.98
					6	9.60	-79.62
					11	9.66	-79.24
	WiFi 11g_TRP&TIS	802.11g	TRP 54M TIS 54M	TRP/TIS(3D)	1	7.58	-68.34
					6	7.91	-68.85
					11	8.18	-68.81
	WiFi 11n_TRP&TIS	802.11n	TRP MCS 7 TIS MCS 7	TRP/TIS(3D)	1	8.52	-63.57
					6	8.96	-63.35
					11	9.12	-63.73
5.8G	WiFi 11a_TRP&TIS	802.11a	TRP 54M TIS 54M	TRP/TIS(3D)	36	9.62	-69.27
					149	9..95	-69.23
					165	9.47	-69.44

2. Test Result

2.4 WIFI Throughput Test

[4]	8.00-9.00	sec	8.25 MBytes	69.2 Mbits/sec
[4]	9.00-10.00	sec	8.12 MBytes	68.2 Mbits/sec
[4]	10.00-11.00	sec	8.12 MBytes	68.0 Mbits/sec
[4]	11.00-12.01	sec	8.00 MBytes	67.1 Mbits/sec
[4]	12.01-13.01	sec	7.75 MBytes	64.9 Mbits/sec
[4]	13.01-14.01	sec	8.38 MBytes	70.1 Mbits/sec
[4]	14.01-15.01	sec	8.12 MBytes	68.1 Mbits/sec
[4]	15.01-16.01	sec	8.00 MBytes	67.1 Mbits/sec
[4]	16.01-17.01	sec	8.12 MBytes	68.1 Mbits/sec
[4]	17.01-18.01	sec	7.50 MBytes	62.9 Mbits/sec
[4]	18.01-19.01	sec	7.75 MBytes	65.0 Mbits/sec
[4]	19.01-20.01	sec	7.62 MBytes	63.9 Mbits/sec
[4]	20.01-21.01	sec	8.12 MBytes	68.2 Mbits/sec
[4]	21.01-22.01	sec	7.50 MBytes	62.8 Mbits/sec
[4]	22.01-23.01	sec	7.38 MBytes	61.8 Mbits/sec
[4]	23.01-24.00	sec	7.25 MBytes	61.4 Mbits/sec
[4]	24.00-25.00	sec	7.38 MBytes	61.8 Mbits/sec
[4]	25.00-26.01	sec	7.25 MBytes	60.2 Mbits/sec
[4]	26.01-27.01	sec	7.12 MBytes	60.0 Mbits/sec
[4]	27.01-28.01	sec	7.00 MBytes	58.5 Mbits/sec
[4]	28.01-29.00	sec	7.50 MBytes	63.3 Mbits/sec
[4]	29.00-30.01	sec	7.25 MBytes	60.5 Mbits/sec

[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.01	sec	234 MBytes	65.3 Mbits/sec
[4]	0.00-30.01	sec	234 MBytes	65.3 Mbits/sec

iperf Done.

[4]	8.00-9.00	sec	7.69 MBytes	64.5 Mbits/sec
[4]	9.00-10.00	sec	7.71 MBytes	64.4 Mbits/sec
[4]	10.00-11.00	sec	7.91 MBytes	66.6 Mbits/sec
[4]	11.00-12.00	sec	8.07 MBytes	67.7 Mbits/sec
[4]	12.00-13.00	sec	8.04 MBytes	67.4 Mbits/sec
[4]	13.00-14.00	sec	8.10 MBytes	67.9 Mbits/sec
[4]	14.00-15.00	sec	8.10 MBytes	67.9 Mbits/sec
[4]	15.00-16.00	sec	8.09 MBytes	67.9 Mbits/sec
[4]	16.00-17.00	sec	7.75 MBytes	65.0 Mbits/sec
[4]	17.00-18.00	sec	7.92 MBytes	66.4 Mbits/sec
[4]	18.00-19.00	sec	8.09 MBytes	67.9 Mbits/sec
[4]	19.00-20.00	sec	8.00 MBytes	67.1 Mbits/sec
[4]	20.00-21.00	sec	7.60 MBytes	63.7 Mbits/sec
[4]	21.00-22.00	sec	8.00 MBytes	67.1 Mbits/sec
[4]	22.00-23.00	sec	8.02 MBytes	67.3 Mbits/sec
[4]	23.00-24.00	sec	7.98 MBytes	67.0 Mbits/sec
[4]	24.00-25.00	sec	7.83 MBytes	65.7 Mbits/sec
[4]	25.00-26.00	sec	7.88 MBytes	66.1 Mbits/sec
[4]	26.00-27.00	sec	7.77 MBytes	65.1 Mbits/sec
[4]	27.00-28.00	sec	7.86 MBytes	66.1 Mbits/sec
[4]	28.00-29.00	sec	7.17 MBytes	60.2 Mbits/sec
[4]	29.00-30.00	sec	8.00 MBytes	67.2 Mbits/sec

[ID]	Interval		Transfer	Bandwidth
[4]	0.00-30.00	sec	233 MBytes	65.2 Mbits/sec
[4]	0.00-30.00	sec	232 MBytes	65.0 Mbits/sec

2. Test Result

2.4WIFI Throughput Test

```
[ 4]  8.00-9.00  sec  40.4 MBytes  339 Mbits/sec
[ 4]  9.00-10.00 sec  40.4 MBytes  339 Mbits/sec
[ 4] 10.00-11.00 sec  40.6 MBytes  340 Mbits/sec
[ 4] 11.00-12.00 sec  40.2 MBytes  337 Mbits/sec
[ 4] 12.00-13.00 sec  40.2 MBytes  337 Mbits/sec
[ 4] 13.00-14.00 sec  40.5 MBytes  340 Mbits/sec
[ 4] 14.00-15.00 sec  40.2 MBytes  337 Mbits/sec
[ 4] 15.00-16.00 sec  40.6 MBytes  341 Mbits/sec
[ 4] 16.00-17.00 sec  40.4 MBytes  339 Mbits/sec
[ 4] 17.00-18.00 sec  40.4 MBytes  339 Mbits/sec
[ 4] 18.00-19.00 sec  40.4 MBytes  339 Mbits/sec
[ 4] 19.00-20.00 sec  39.9 MBytes  334 Mbits/sec
[ 4] 20.00-21.00 sec  40.1 MBytes  336 Mbits/sec
[ 4] 21.00-22.00 sec  39.8 MBytes  334 Mbits/sec
[ 4] 22.00-23.00 sec  38.4 MBytes  323 Mbits/sec
[ 4] 23.00-24.00 sec  37.3 MBytes  312 Mbits/sec
[ 4] 24.00-25.00 sec  37.7 MBytes  316 Mbits/sec
[ 4] 25.00-26.00 sec  37.0 MBytes  311 Mbits/sec
[ 4] 26.00-27.00 sec  39.0 MBytes  327 Mbits/sec
[ 4] 27.00-28.00 sec  40.0 MBytes  336 Mbits/sec
[ 4] 28.00-29.00 sec  40.2 MBytes  337 Mbits/sec
[ 4] 29.00-30.00 sec  39.9 MBytes  335 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4]  0.00-30.00 sec  1.17 GBytes 334 Mbits/sec
[ 4]  0.00-30.00 sec  1.17 GBytes 334 Mbits/sec

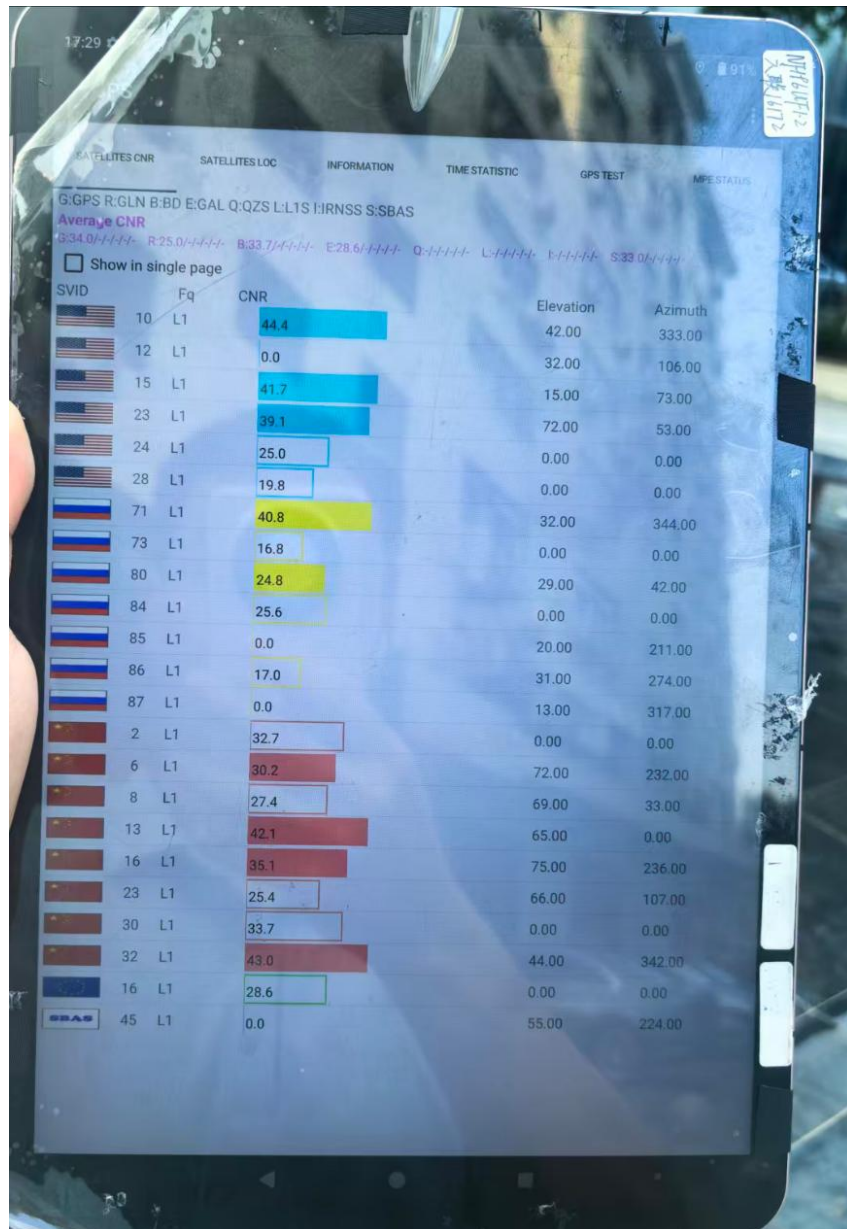
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[ 4]  8.00-9.00  sec  43.0 MBytes  361 Mbits/sec
[ 4]  9.00-10.00 sec  43.5 MBytes  365 Mbits/sec
[ 4] 10.00-11.00 sec  42.9 MBytes  360 Mbits/sec
[ 4] 11.00-12.00 sec  43.4 MBytes  364 Mbits/sec
[ 4] 12.00-13.00 sec  43.8 MBytes  367 Mbits/sec
[ 4] 13.00-14.00 sec  43.5 MBytes  365 Mbits/sec
[ 4] 14.00-15.00 sec  43.2 MBytes  363 Mbits/sec
[ 4] 15.00-16.00 sec  43.5 MBytes  365 Mbits/sec
[ 4] 16.00-17.00 sec  43.6 MBytes  366 Mbits/sec
[ 4] 17.00-18.00 sec  44.0 MBytes  369 Mbits/sec
[ 4] 18.00-19.00 sec  44.0 MBytes  369 Mbits/sec
[ 4] 19.00-20.00 sec  44.1 MBytes  370 Mbits/sec
[ 4] 20.00-21.00 sec  43.5 MBytes  365 Mbits/sec
[ 4] 21.00-22.00 sec  43.5 MBytes  365 Mbits/sec
[ 4] 22.00-23.01 sec  43.6 MBytes  366 Mbits/sec
[ 4] 23.01-24.01 sec  43.6 MBytes  366 Mbits/sec
[ 4] 24.01-25.01 sec  43.2 MBytes  363 Mbits/sec
[ 4] 25.01-26.00 sec  44.1 MBytes  371 Mbits/sec
[ 4] 26.00-27.01 sec  43.1 MBytes  360 Mbits/sec
[ 4] 27.01-28.01 sec  44.1 MBytes  370 Mbits/sec
[ 4] 28.01-29.00 sec  43.5 MBytes  366 Mbits/sec
[ 4] 29.00-30.01 sec  43.8 MBytes  365 Mbits/sec
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[ ID] Interval      Transfer    Bandwidth
[ 4]  0.00-30.01 sec  1.27 GBytes 363 Mbits/sec
[ 4]  0.00-30.01 sec  1.27 GBytes 363 Mbits/sec

iperf Done.
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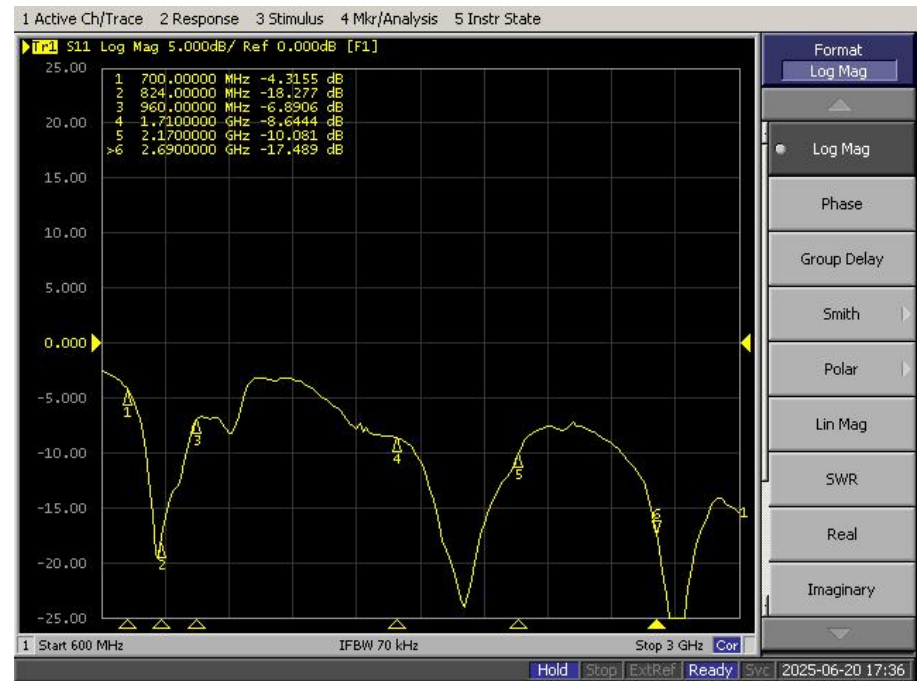
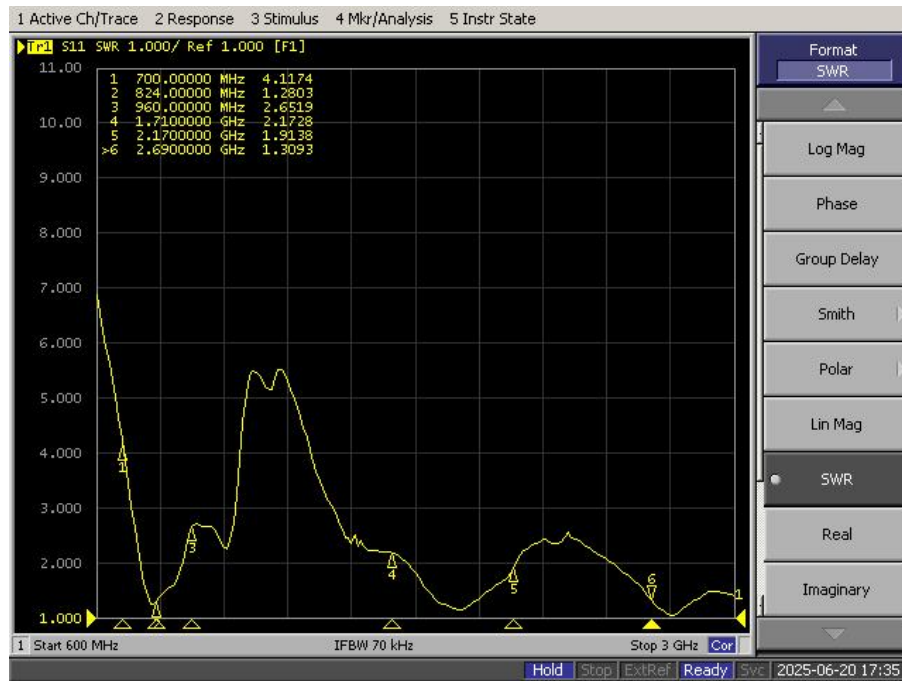
2. Test Result

2.5 GPS practical Test



2. Test Result

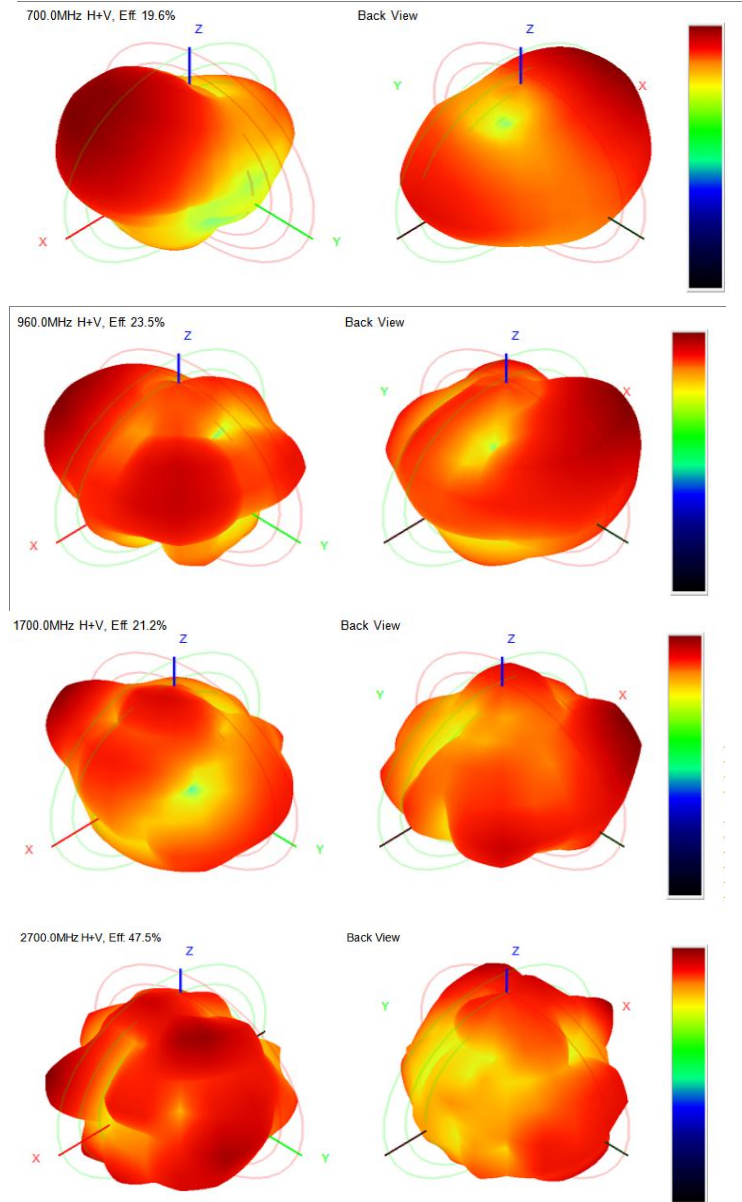
2.6 LTE MAIN Antenna VSWR/S11



2. Test Result

2.7 LTE Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
700	-6.76	1.00	21.08
750	-6.06	2.39	24.76
800	-4.84	2.08	32.79
850	-6.15	0.09	24.27
900	-5.53	1.70	28.02
960	-6.14	0.92	24.33
1700	-6.69	0.17	21.42
1800	-5.59	0.86	27.61
1900	-5.40	1.36	28.82
2000	-5.29	1.39	29.61
2100	-5.13	1.39	30.72
2200	-4.89	1.72	32.45
2300	-5.40	1.61	28.81
2400	-4.99	2.22	31.69
2500	-5.33	2.55	29.33
2600	-4.46	2.44	35.78
2700	-3.23	2.62	47.52



2. Test Result

2.8 LTE Antenna TIS/TRP

GSM	LTE-L	LTE-M	LTE-R	TIS
GSM850	26.58	26.85	26.97	-101.55
GSM900	25.76	25.39	25.16	-102.16
GSM1800	25.89	25.08	25.14	-102.87
GSM1900	25.22	25.61	25.87	-104.48
WCDMA	LTE-L	LTE-M	LTE-R	TIS
WCDMA-B2	17.63	18.24	18.2	-102.72
WCDMA-B8	18.85	18.85	18.34	-103.49
LTE	LTE-L	LTE-M	LTE-R	TIS
LTE-3	19.89	19.75	19.88	-94.44
LTE-4	19.61	20.47	20.22	-95.06
LTE-7	17.18	16.99	17.09	-94.96



3. Conclusions

Thank you