



Antenna Test Report

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Project: N140NAL01

Product: WIFI Antenna—FPC

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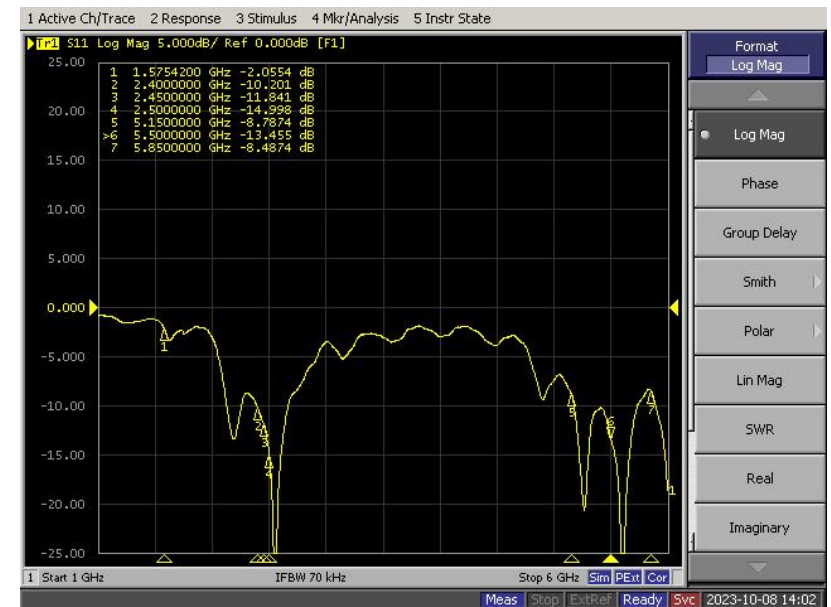
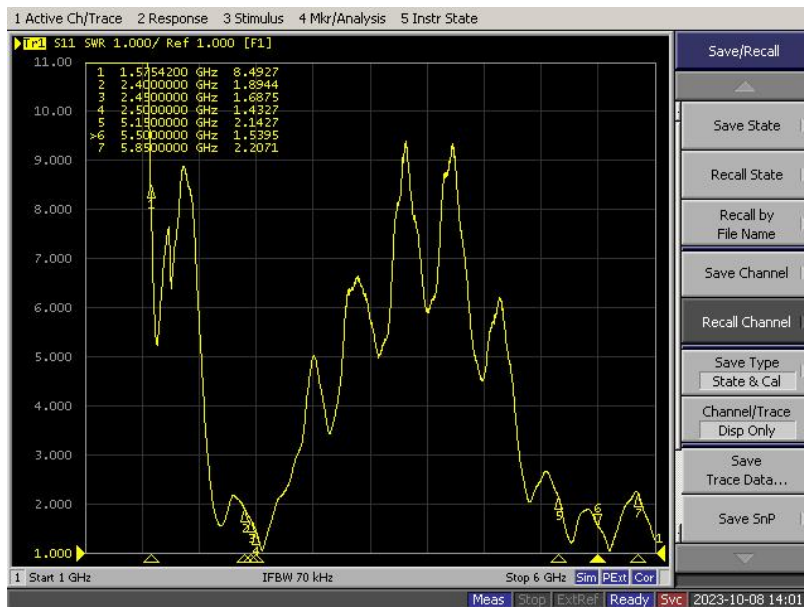
1. Product Overview



2. Test Result

2.1 VSWR/S11

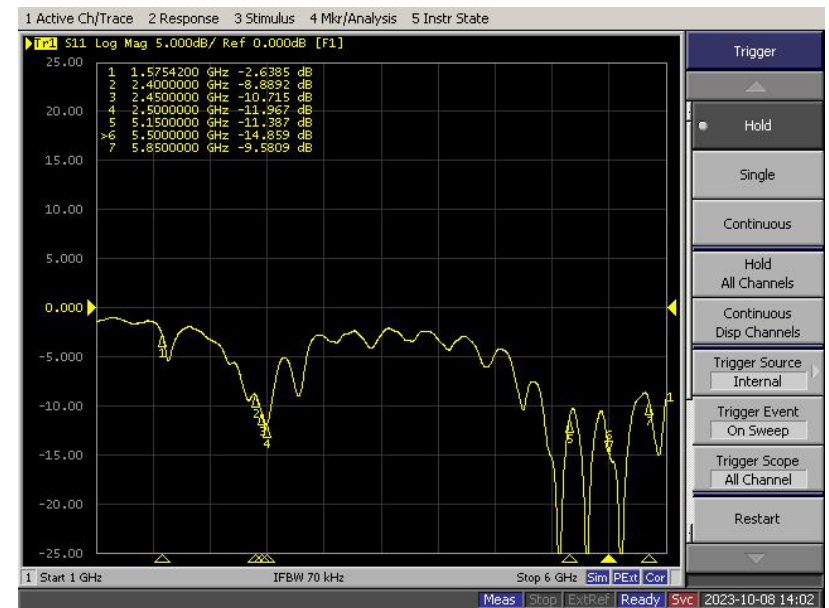
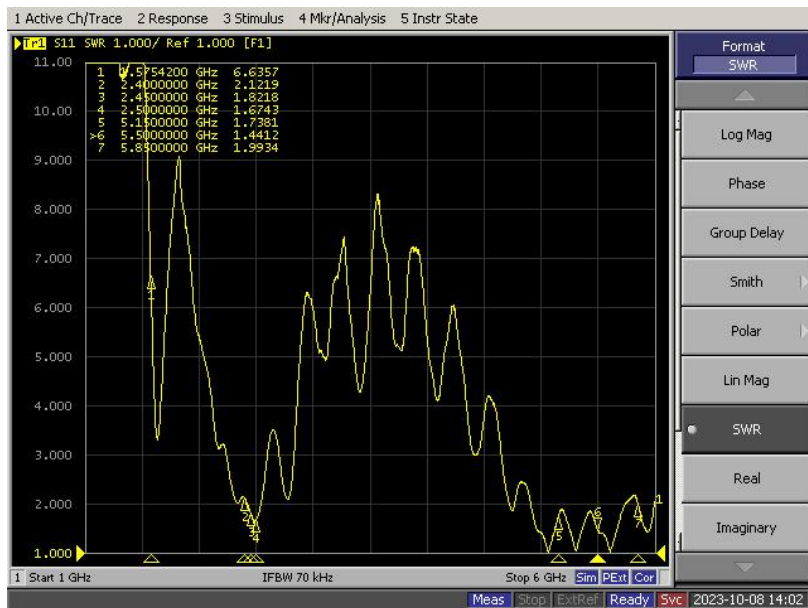
MAIN



2. Test Result

2.1 VSWR/S11

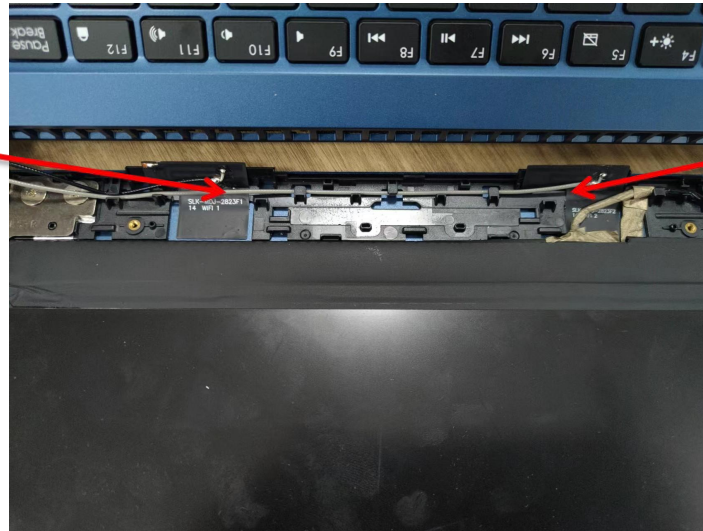
AUX



2. Test Result

2.2 Antenna Parameters

MAIN



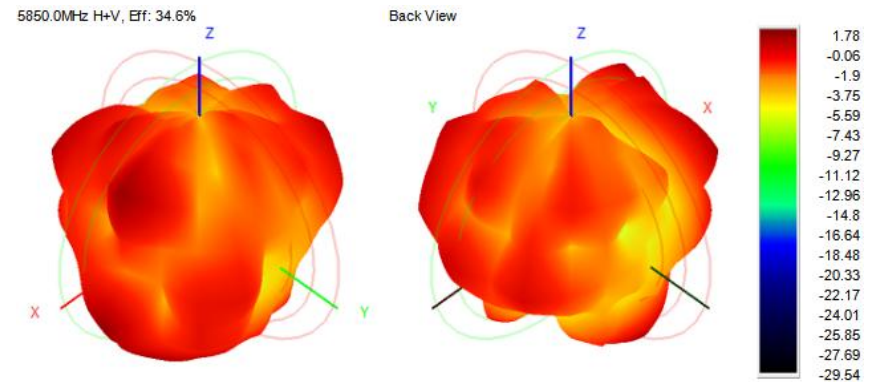
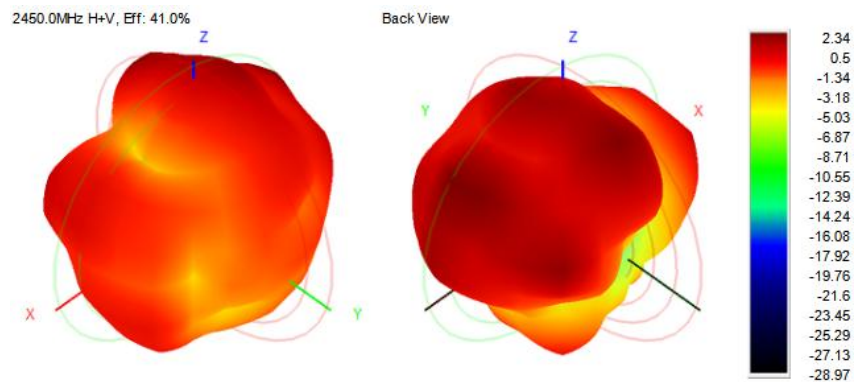
AUX

2. Test Result

2.3 WIFI Antenna Gain/Efficiency/3D DATA

MAIN

Frequency (MHz)	2400. 0	2450. 0	2500. 0	5150. 0	5250. 0	5350. 0	5500. 0	5750. 0	5850. 0
Efficiency (dBi)	-3.80	-3.87	-3.98	-4.03	-3.86	-3.90	-3.91	-4.41	-4.61
Gain (dBi)	2.86	2.34	2.46	1.81	2.37	2.05	4.60	2.1	1.78
Efficiency (%)	41.65	40.98	40.03	39.56	41.07	40.78	40.63	36.25	34.58



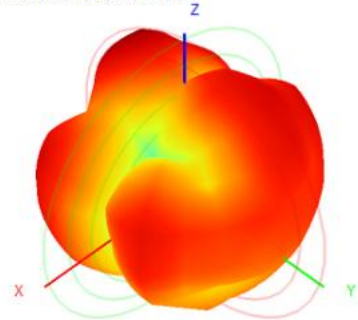
2. Test Result

2.3 WIFI Antenna Gain/Efficiency/3D DATA

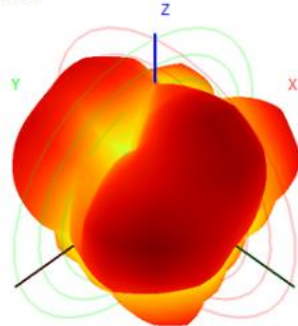
AUX

Frequency (MHz)	2400. 0	2450. 0	2500. 0	5150. 0	5250. 0	5350. 0	5500. 0	5750. 0	5850. 0
Efficiency (dBi)	-4.41	-4.26	-4.93	-4.92	-4.65	-4.54	-4.54	-4.70	-4.85
Gain (dBi)	3.22	3.23	1.63	1.56	1.84	2.01	3.11	3.57	3.79
Efficiency (%)	36.22	37.51	32.10	32.19	34.27	35.16	35.15	33.87	32.75

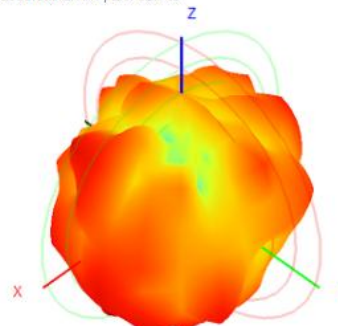
2450.0MHz H+V, Eff: 37.5%



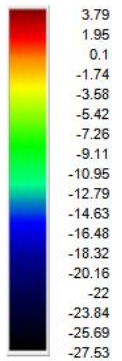
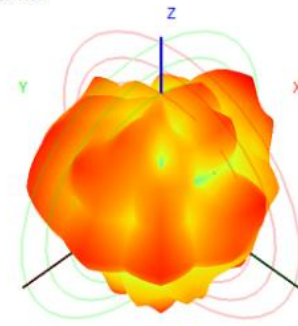
Back View



5850.0MHz H+V, Eff: 32.7%



Back View



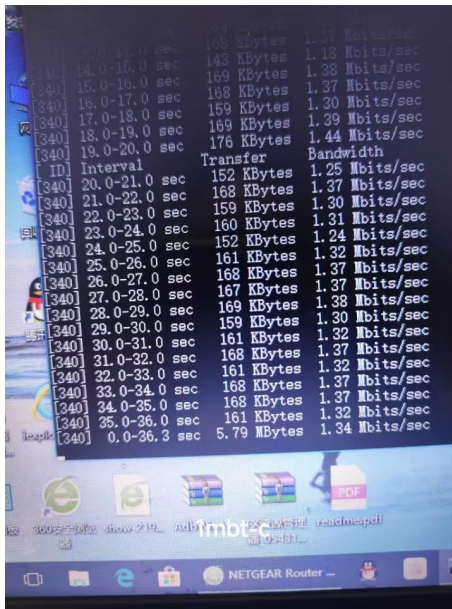
2. Test Result

2.4 WIFI Antenna Throughput

2.4upload	2.4download	5.8upload	5.8download
106M	153M	446M	452M

2. Test Result

2.5 BT Throughput



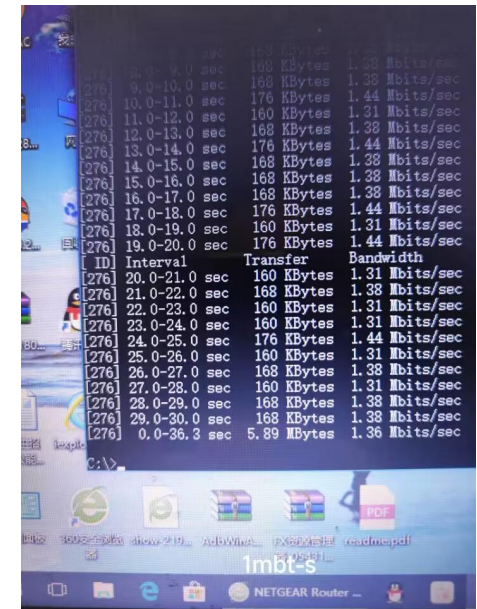
[ID]	Interval	Transfer	Bandwidth
[340]	14.0-15.0 sec	143 KBytes	1.18 Mbits/sec
[340]	15.0-16.0 sec	169 KBytes	1.38 Mbits/sec
[340]	16.0-17.0 sec	168 KBytes	1.37 Mbits/sec
[340]	17.0-18.0 sec	159 KBytes	1.30 Mbits/sec
[340]	18.0-19.0 sec	169 KBytes	1.39 Mbits/sec
[340]	19.0-20.0 sec	176 KBytes	1.44 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[340]	20.0-21.0 sec	152 KBytes	1.25 Mbits/sec
[340]	21.0-22.0 sec	168 KBytes	1.37 Mbits/sec
[340]	22.0-23.0 sec	159 KBytes	1.30 Mbits/sec
[340]	23.0-24.0 sec	160 KBytes	1.31 Mbits/sec
[340]	24.0-25.0 sec	152 KBytes	1.24 Mbits/sec
[340]	25.0-26.0 sec	161 KBytes	1.32 Mbits/sec
[340]	26.0-27.0 sec	168 KBytes	1.37 Mbits/sec
[340]	27.0-28.0 sec	167 KBytes	1.37 Mbits/sec
[340]	28.0-29.0 sec	169 KBytes	1.38 Mbits/sec
[340]	29.0-30.0 sec	159 KBytes	1.30 Mbits/sec
[340]	30.0-31.0 sec	161 KBytes	1.37 Mbits/sec
[340]	31.0-32.0 sec	168 KBytes	1.32 Mbits/sec
[340]	32.0-33.0 sec	161 KBytes	1.37 Mbits/sec
[340]	33.0-34.0 sec	168 KBytes	1.37 Mbits/sec
[340]	34.0-35.0 sec	168 KBytes	1.37 Mbits/sec
[340]	35.0-36.0 sec	161 KBytes	1.32 Mbits/sec
[340]	0.0-36.3 sec	5.79 MBytes	1.34 Mbits/sec

BTupload

BTdownload

1.34M

1.36M



[ID]	Interval	Transfer	Bandwidth
[276]	9.0-10.0 sec	186 KBytes	1.38 Mbits/sec
[276]	10.0-11.0 sec	176 KBytes	1.44 Mbits/sec
[276]	11.0-12.0 sec	160 KBytes	1.31 Mbits/sec
[276]	12.0-13.0 sec	168 KBytes	1.38 Mbits/sec
[276]	13.0-14.0 sec	176 KBytes	1.44 Mbits/sec
[276]	14.0-15.0 sec	168 KBytes	1.38 Mbits/sec
[276]	15.0-16.0 sec	168 KBytes	1.38 Mbits/sec
[276]	16.0-17.0 sec	168 KBytes	1.38 Mbits/sec
[276]	17.0-18.0 sec	176 KBytes	1.44 Mbits/sec
[276]	18.0-19.0 sec	160 KBytes	1.31 Mbits/sec
[276]	19.0-20.0 sec	176 KBytes	1.44 Mbits/sec
[ID]	Interval	Transfer	Bandwidth
[276]	20.0-21.0 sec	160 KBytes	1.31 Mbits/sec
[276]	21.0-22.0 sec	168 KBytes	1.38 Mbits/sec
[276]	22.0-23.0 sec	160 KBytes	1.31 Mbits/sec
[276]	23.0-24.0 sec	160 KBytes	1.31 Mbits/sec
[276]	24.0-25.0 sec	176 KBytes	1.44 Mbits/sec
[276]	25.0-26.0 sec	160 KBytes	1.31 Mbits/sec
[276]	26.0-27.0 sec	168 KBytes	1.38 Mbits/sec
[276]	27.0-28.0 sec	160 KBytes	1.31 Mbits/sec
[276]	28.0-29.0 sec	168 KBytes	1.38 Mbits/sec
[276]	29.0-30.0 sec	168 KBytes	1.38 Mbits/sec
[276]	0.0-36.3 sec	5.89 MBytes	1.36 Mbits/sec