



Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: Madigan

Project: N160DBC01

Product: WIFI Antenna—FPC

Report date: 2024.4.9

Purpose

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

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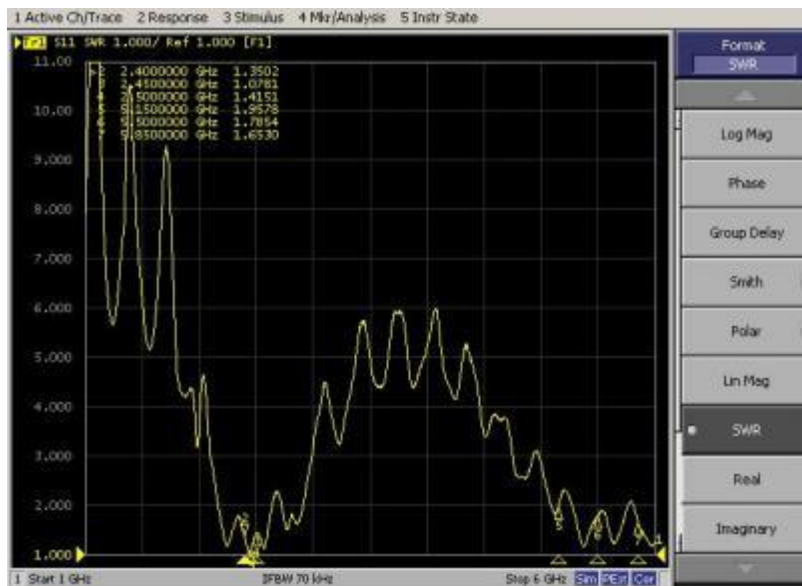
1. Product Overview



2. Test Result

2.1 VSWR/S11

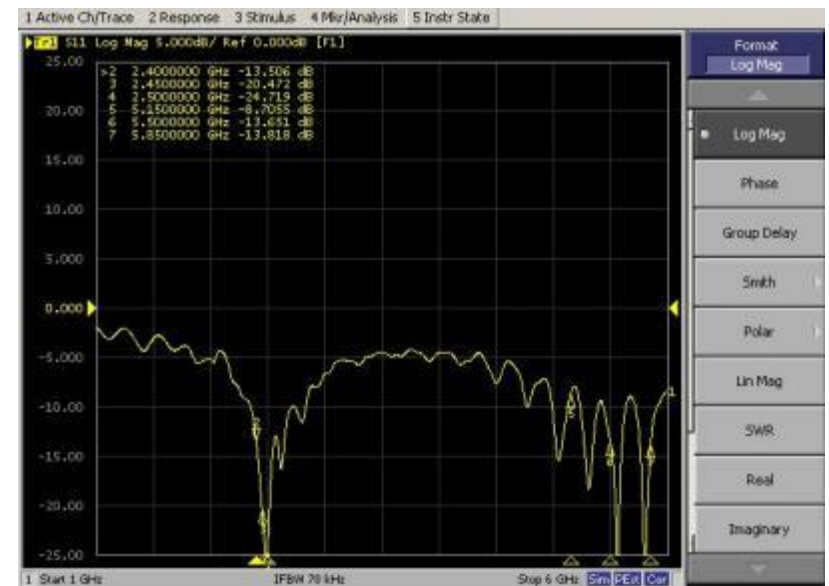
MAIN



2. Test Result

2.1 VSWR/S11

AUX



2. Test Result

2.2 Antenna Parameters

MAIN



AUX

2. Test Result

2.3 WIFI Antenna TRP/TIS

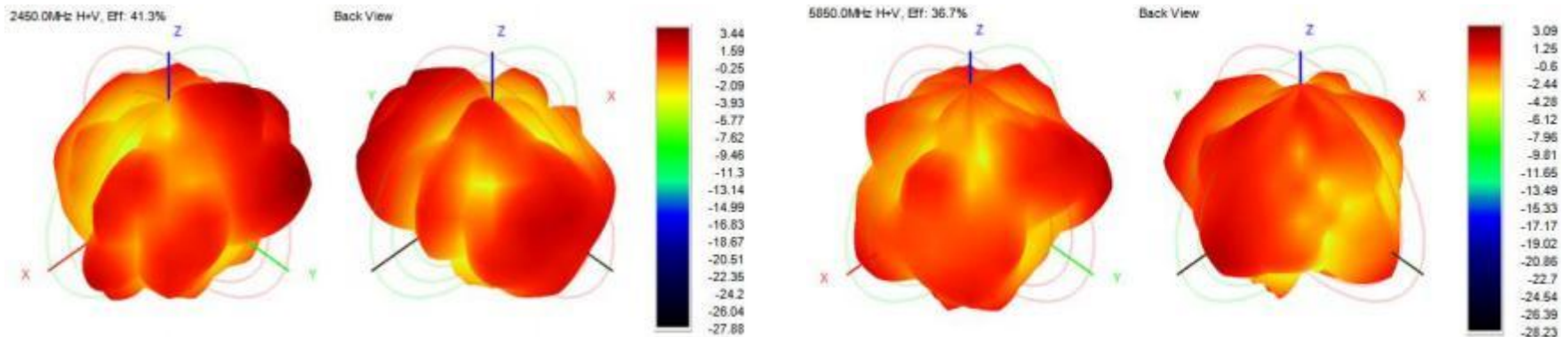
WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11a 54M	36	12.22	-.67.2	802.11g 54M	1	10.37	-69.22
	149	13.76	-70.79		6	13.65	-70.09
	165	14.67	-70.41		11	11.87	-68.58
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b 11M	1	15.29	-75.8	802.11n MCX7	1	6.2	-65.49
	6	15.3	-78.83		6	13.44	-67.07
	11	15.46	-76.32		11	7.92	-67.64

2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

MAIN

Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5500.0	5850.0
Efficiency (dBi)	-3.70	-3.84	-4.12	-4.15	-3.74	-4.36
Gain (dBi)	3.52	3.44	3.31	2.75	4.39	3.09
Efficiency (%)	42.69	41.27	38.75	38.50	42.25	36.66

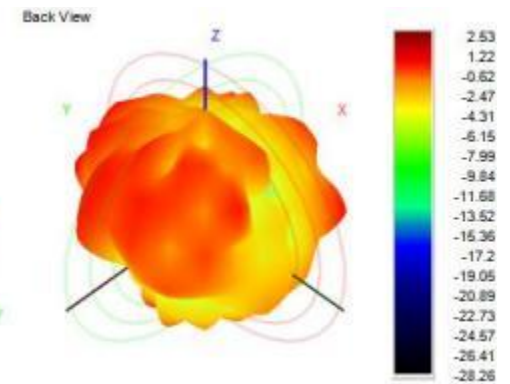
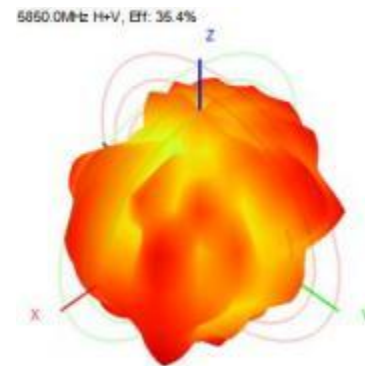
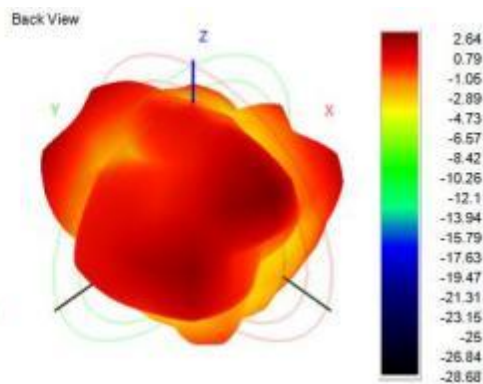
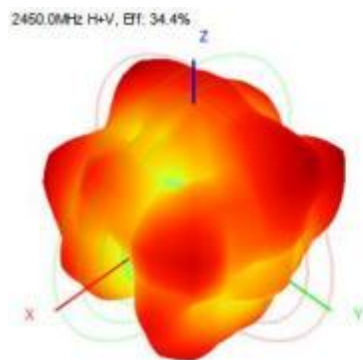


2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

AUX

Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5500.0	5850.0
Efficiency (dBi)	-4.56	-4.64	-4.77	-4.53	-4.83	-4.51
Gain (dBi)	2.37	2.64	2.40	2.66	0.72	2.53
Efficiency (%)	35.02	34.39	33.38	35.24	32.90	35.40



3. Conclusions

By regulation, G-mode and n-mode low-high channel conduction power will be relatively low. It is suggested that the memory strip should be treated with packet absorbing material, which can obviously improve TIS (3-4DB) . Thank you.



Memory needs package absorbing material, which can improve TIS greatly.