



Shenzhen Yishengbang Technology Co., Ltd

Antenna Test Report

Customer: 迈迪杰

Project: N160DAL01

Product: WIFI Antenna—FPC

Report date: 2024.7.10



Purpose

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

Content

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2. Test Result

- 2.1 VSWR/S11

- 2.2 Antenna Parameters

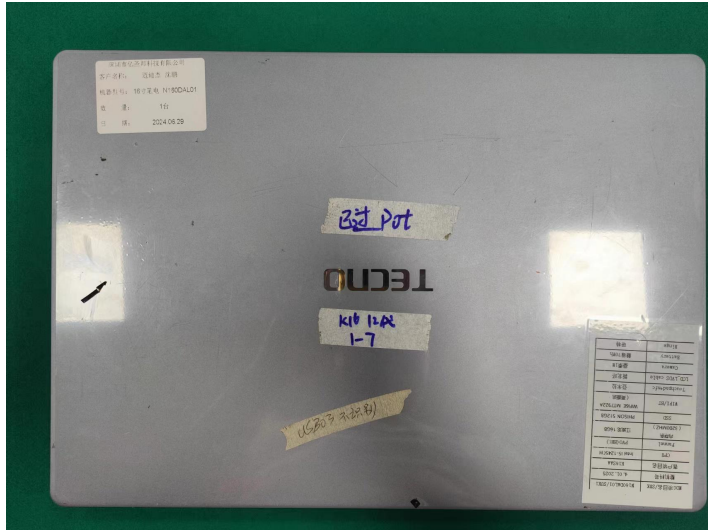
- 2.3 WIFI Antenna TRP/TIS

- 2.4 WIFI Antenna Gain/Efficiency/3D DATA

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3. Conclusions

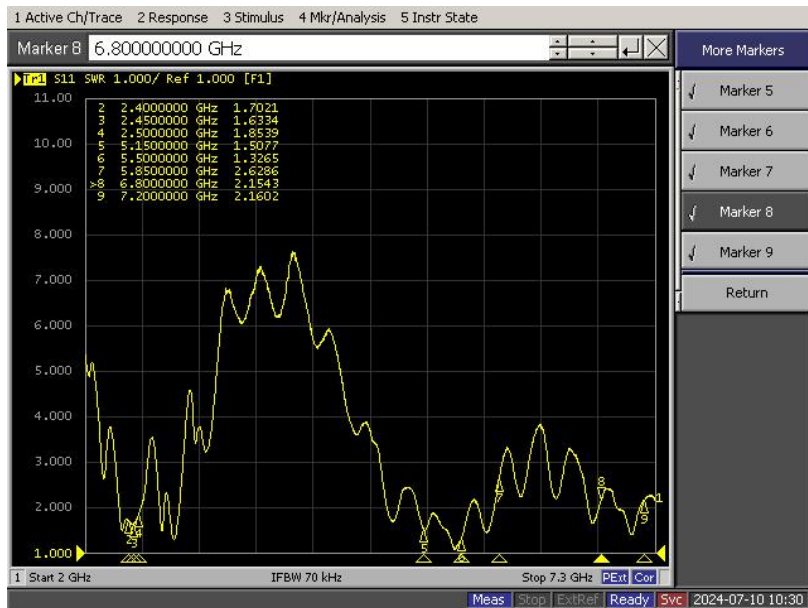
1. Product Overview



2. Test Result

2.1 VSWR/S11

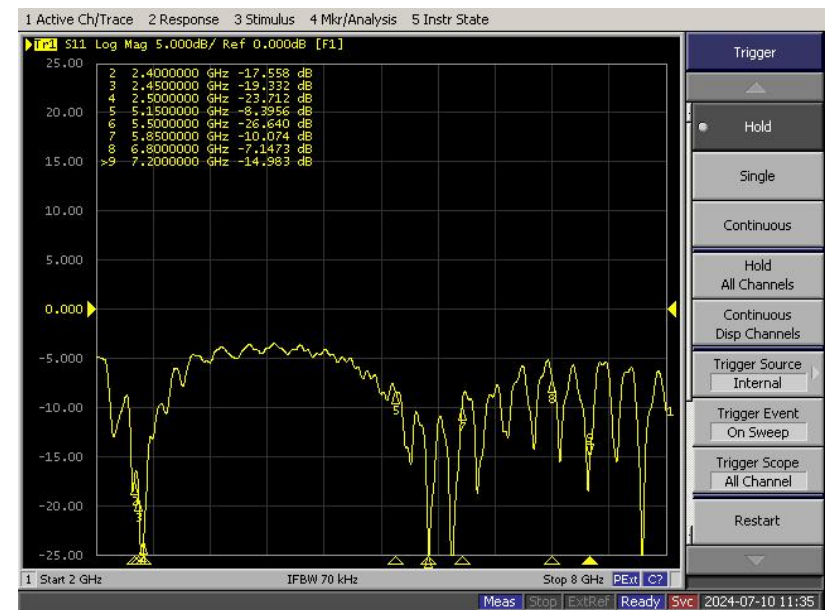
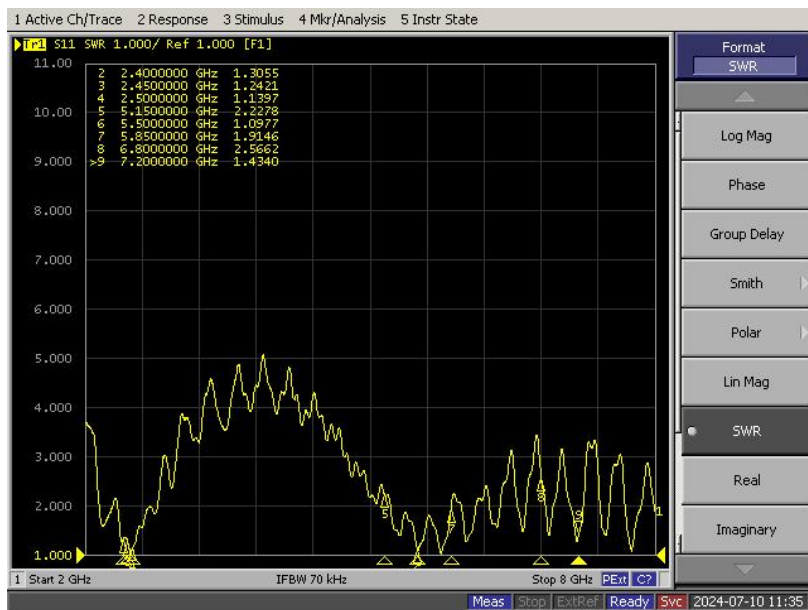
MAIN



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 (MCS7)	灵敏度 (MCS7)
802.11a 54M	36	8.17	-72.13	802.11a/ n MCS7	36	6.15	-66.63
	149	12.13	-72.93		149	10.99	-67.24
	165	11.78	-72.39		165	9.72	-68.65

WIFI	CH	功率 (11M)	灵敏度 (11M)	WIFI	CH	功率 (54M)	灵敏度 (54M)	WIFI	CH	功率 (MCS7)	灵敏度 (MCS7)
802.11b 11M	1	9.19	-81.12	802.11g 54M	1	10.1	-70.15	802.11n MCS7	1	7.67	-67.45
	6	8.71	-83.91		6	10.15	-72.53		6	8.1	-69.13
	11	8.51	-82.9		11	10.42	-71.42		11	8.19	-68.28

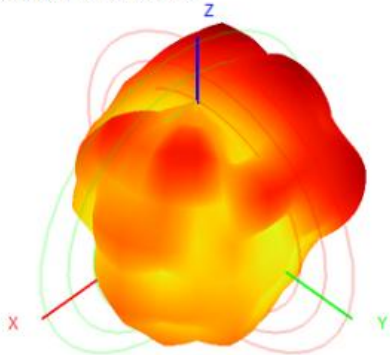
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

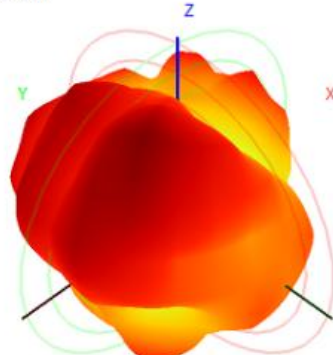
MAIN

Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5500.0	5850.0	6500.0	7100.0
Efficiency (dBi)	-3.93	-4.08	-4.00	-4.72	-4.43	-4.57	-6.00	-5.82
Gain (dBi)	2.78	3.46	3.44	0.92	1.56	2.02	0.65	0.04
Efficiency (%)	40.48	39.08	39.82	33.75	36.06	34.88	25.14	26.17

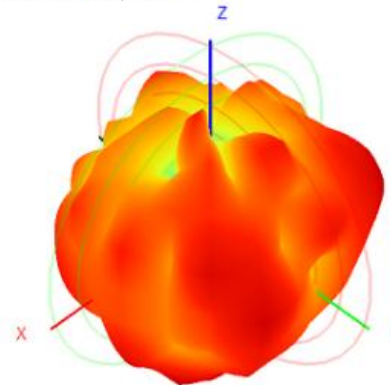
2450.0MHz H+V, Eff: 39.1%



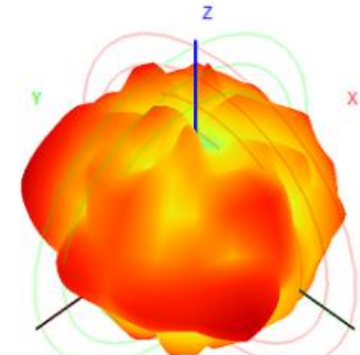
Back View



5850.0MHz H+V, Eff: 34.9%



Back View



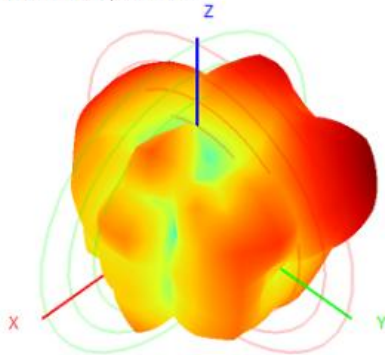
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

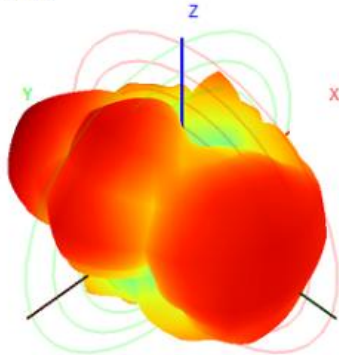
AUX

Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5500.0	5850.0	6500.0	7100.0
Efficiency (dBi)	-4.42	-4.27	-4.44	-5.11	-4.87	-5.1	-6.44	-6.41
Gain (dBi)	2.07	3.01	2.11	1.04	1.09	2.14	0.17	0.21
Efficiency (%)	36.16	37.42	35.97	30.82	32.62	30.92	22.70	22.83

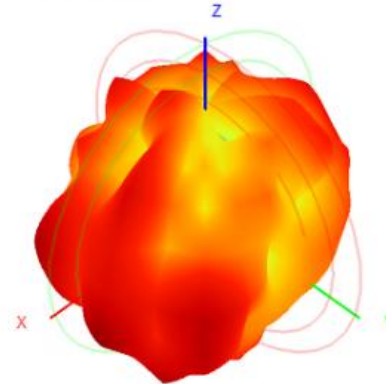
2450.0MHz H+V, Eff: 37.4%



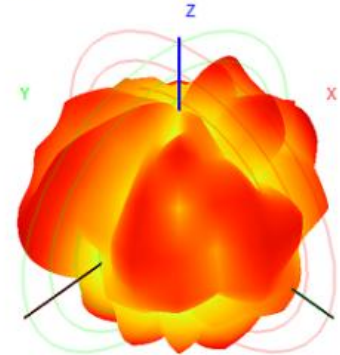
Back View



5850.0MHz H+V, Eff: 30.9%



Back View



2. Test Result

2.5 WIFI/BT Antenna Throughput

2.4 Upload	2.4Download	5.8Upload	5.8Download	BT Upload	BTDownload
282M	328M	813M	911M	1.35M	1.38M

Test environment : Office1M。

