

PSA

佳邦科技股份有限公司

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爱培科_DR1310_ WIFI Antenna_Test Report

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INPAQ Technology Co., Ltd.

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Revision History

Released Date	Version	Record
Feb.04 th ,2024	V0.0	Initial Release
Feb.19 th ,2024	V1.0	Add data
Mar.06 th ,2024	V2.0	Update data
Mar.15 th ,2024	V3.0	Update data
Apr.08 th ,2024	V4.0	试产机
Apr.25 th ,2024	V5.0	最终试产机

Requirements of Antenna Design and Measurement

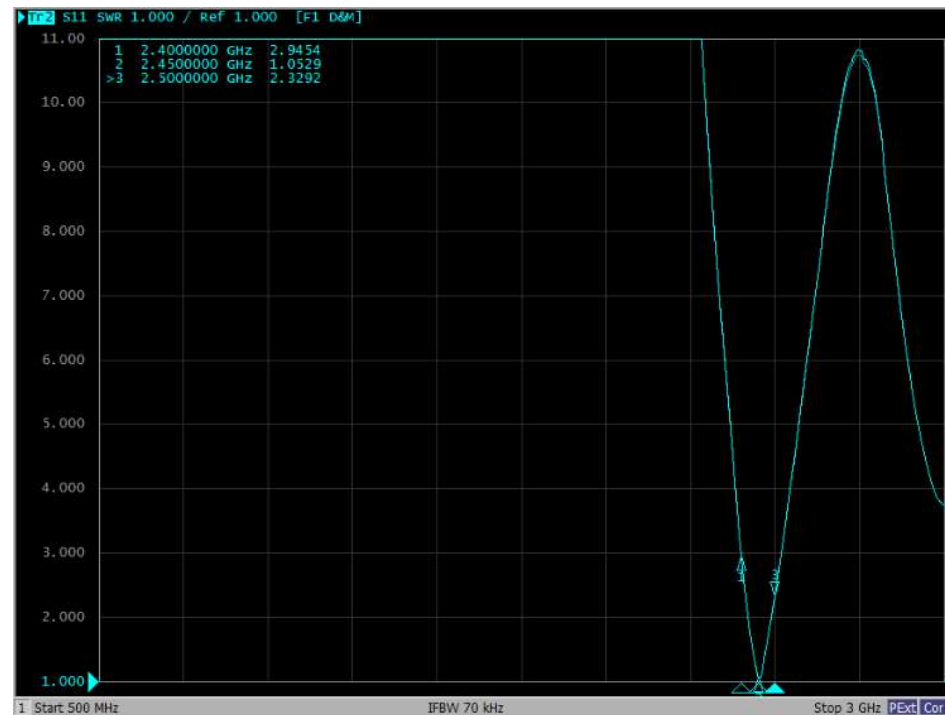
Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
WIFI	1	2400 –2500MHz	

Requirements of Measurement

Test Item	Specification	Remark
VSWR	N/A	
Peak gain	N/A	
Efficiency	N/A	

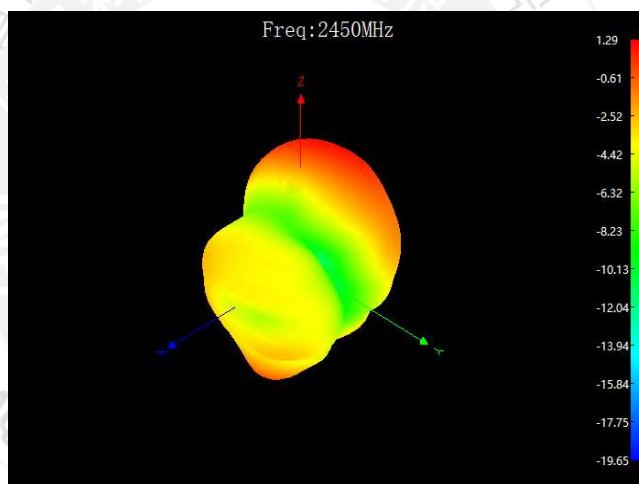
VSWR Results—WIFI



Frequency (MHz)	2400	2450	2500
VSWR	2.94	1.05	2.32

3D Radiation Pattern Results-WIFI

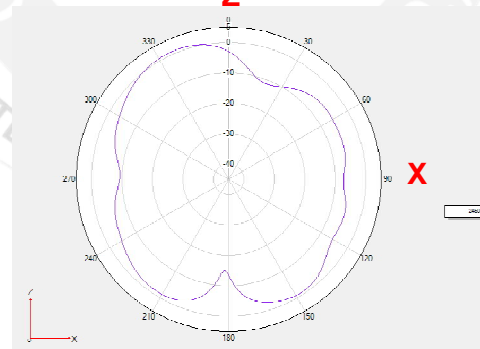
◆ 2450MHz



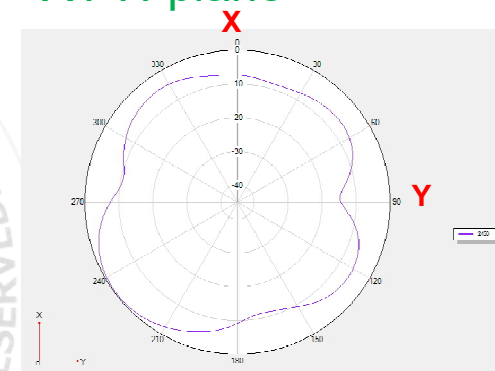
2D Radiation Pattern Results-WIFI

2450MHz

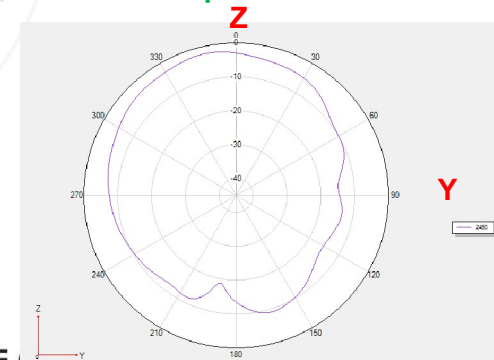
XZ-E1-plane



XY-H-plane



YZ-E2-plane



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Results Summary-Peak Gain & Efficiency-WIFI

Freq.	Efficiency	Peak Gain
(MHz)	(%)	(dBi)
2400	25.02	-0.87
2410	28.05	-0.34
2420	32.28	0.24
2430	36.14	0.7
2440	38.11	0.96
2450	40.02	1.29
2460	39.26	1.25
2470	38.41	1.34
2480	37.26	1.06
2490	36.64	0.83
2500	34.99	0.34
AVG	35.10	

Results Summary-OTA Test-WIFI

#34 (国内版)			TRP	TIS
WIFI_B (11M)	1	2412	10.05	-81.36
WIFI_B (11M)	7	2442	11.52	-81.37
WIFI_B (11M)	13	2472	13.29	-81.09
WIFI_G (54M)	1	2412	8.2	-67.77
WIFI_G (54M)	7	2442	9.19	-69.73
WIFI_G (54M)	13	2472	10.44	-68.18
WIFI_N_ISM (65M)	1	2412	8.33	-64.26
WIFI_N_ISM (65M)	7	2442	9.48	-64.74
WIFI_N_ISM (65M)	13	2472	10.4	-64.85

#35 (国内版)			TRP	TIS
WIFI_B (11M)	1	2412	10.63	
WIFI_B (11M)	7	2442	11.73	
WIFI_B (11M)	13	2472	13.08	-79.33
WIFI_G (54M)	1	2412	8.94	
WIFI_G (54M)	7	2442	9.25	
WIFI_G (54M)	13	2472	10.27	-66.51
WIFI_N_ISM (65M)	1	2412	8.82	
WIFI_N_ISM (65M)	7	2442	9.46	
WIFI_N_ISM (65M)	13	2472	10.24	-63.14

#22 (海外版)			TRP	TIS
WIFI_B (11M)	1	2412	10.1	
WIFI_B (11M)	7	2442	11.16	
WIFI_B (11M)	13	2472	13.1	-78.31
WIFI_G (54M)	1	2412	8.31	
WIFI_G (54M)	7	2442	8.82	
WIFI_G (54M)	13	2472	10.13	-67.29
WIFI_N_ISM (65M)	1	2412	8.4	
WIFI_N_ISM (65M)	7	2442	9.11	
WIFI_N_ISM (65M)	13	2472	10.19	-64.15

Conclusion

1. 以上数据如上，可满足贵司需求。
2. 若以上非最新机台,最终还以实际机台测试为准。

以上请知悉，感谢！



Thank you

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