

年 5 月 23 日

Antenna Specification

For official certification

Ant M/N: AMD1

Version, status: V0.3, Approval
Date: 2024-4-15
Creator: Jacky. Liao
HW DM: Clapton. Lin
CPM: Yang. TonySH
Function: Regulatory Certification

Change History

Version	Status	Date	Handled by	Comments
0.1	Draft	2024-04-15	Jacky Liao	Initial Draft

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1. Test Setup & Step

1.1 Calibrated Equipment

Machine name	Brand	Last Calibration Date
Anechonic chamber	ETS AMS-8500	
Network analyzer	Agilent E5071C	29 – Jan - 2024

1.2 Test Software

EMQuest version 1.15

1.3 Test Step

1. Mount E-Book device on FS fixture with display toward horn antenna (+z direction) and power key toward -x direction.
2. Use EMQuest to execute passive performance test.

1.4 Test personnel name

Alex.Su

1.5 Test date

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3. WLAN/BT Antenna Information

3.1.1. WiFi/BT Antenna information

Frequency Range	2400~2485MHz. 5150~5850MHz
Impedance	36.2-17.1jΩ @2460MHz & 26.4+4.65j @5350MHz
Peak Gain	-3.05dBi @ 2460MHz & 1.01dBi @5350MHz
Antenna Type	PIFA

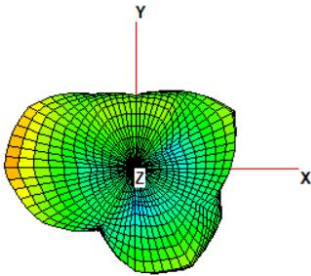
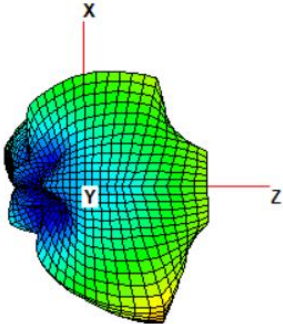
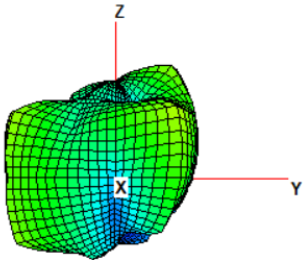
3.1.2. WiFi-1 Antenna Peak Gain

Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	-4.71	-4.24	-3.79	-3.4	-3.21	-3.08	-3.05	-3.15	-3.4	-3.58	-3.82

Frequency	5150	5180	5240	5320	5350	5400	5450	5500	5550	5600	5650	5720	5745	5825	5850
Peak Gain (dBi)	0.2	0.08	0.92	0.12	1.01	0.92	0.11	-0.05	-0.57	-1.18	-1.69	-1.72	-1.31	-0.93	-1.75

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3.1.3 WiFi Antenna Radiation Pattern

Frequency (GHz)	2.46	2.46	2.46
Plane	X-Y plane	X-Z plane	Y-Z plane
3D pattern			

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Frequency (GHz)	5.35	5.35	5.35
Plane	X-Y plane	X-Z plane	Y-Z plane
3D pattern	