

Antenna Specification

For official certification

Model: Lynx-R1 / GLV9

Version, status: V1.0, Approved
Date: 2024-1-19
Creator: Jacky. Liao
HW DM: JHank Tsai
CPM: Audy. Chou.
Function: Regulatory Certification

Change History

Version	Status	Date	Handled by	Comments
0.1	Draft	2023-10-02	Jacky Liao	Draft version
0.3	Draft	2023-12-06	Jacky Liao	Removed the 5150~5850MHz from P.10.
1.0	Approved	2024-01-19	Jacky Liao	Removed chapter 4. for certification

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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 – Dec - 2022

1.2 Test Software

EMQuest version 1.15

1.3 Test Step

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

1.4 Test personnel name

David. Huang.

1.5 Test date

2022/12/30

3. WLAN/BT Antenna Information

3.1.1. WiFi-1/BT Antenna information

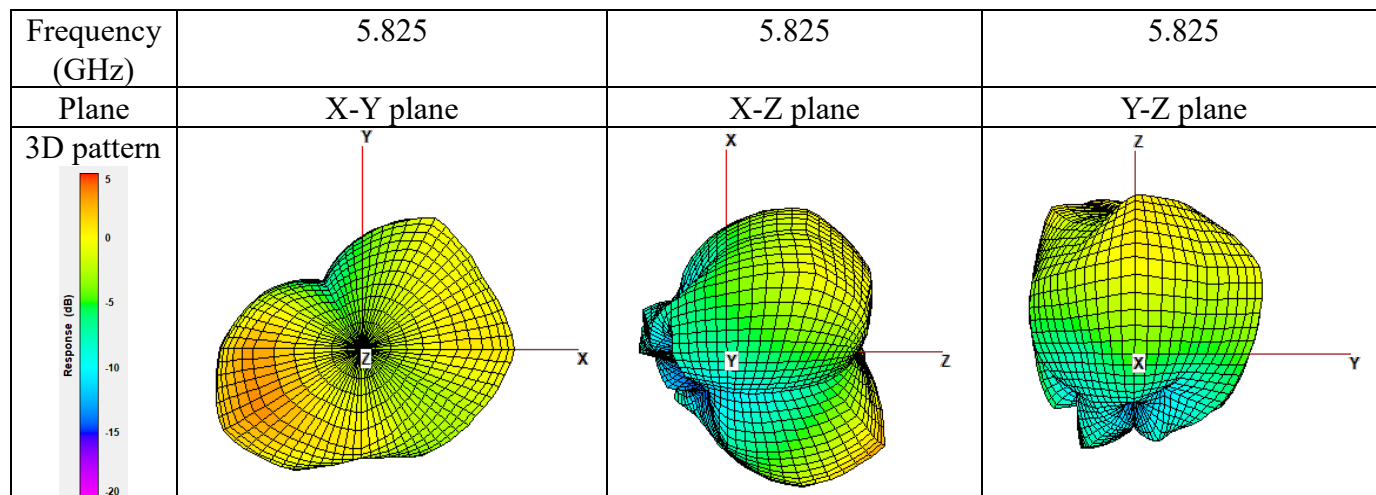
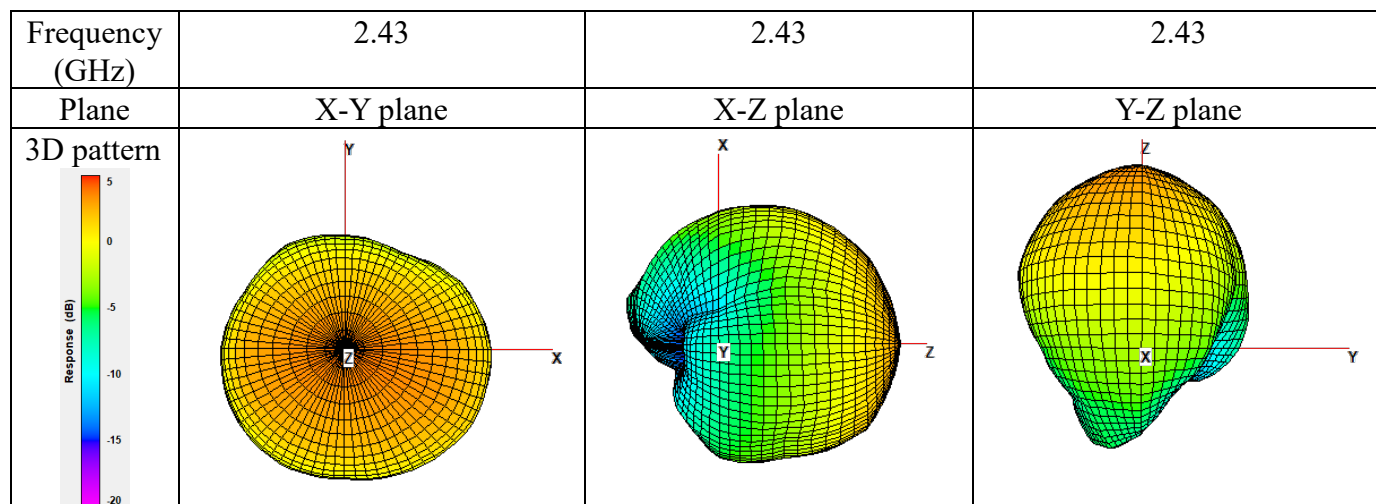
Frequency Range	2400~2485MHz. 5150~5850MHz
Impedance	47.2+18.3jΩ @2430MHz & 35.09-20.01j @5825MHz
Peak Gain	3.02dBi @ 2430MHz & 3.72dBi @5825MHz
Antenna Type	Dipole

3.1.2. WiFi-1 Antenna Peak Gain

Frequency	2400	2412	2420	2430	2437	2450	2462	2472	2480	2490	2500
Peak Gain (dBi)	2.28	2.57	2.84	3.02	2.98	2.82	2.62	2.60	2.55	2.37	1.94

Frequency	5150	5180	5240	5320	5350	5400	5450	5500	5550	5600	5650	5720	5745	5825	5850
Peak Gain (dBi)	1.50	1.64	2.19	2.52	2.56	3.14	3.12	2.82	2.83	2.79	3.11	2.95	3.18	3.72	3.63

3.1.3 WiFi-1 Antenna Radiation Pattern



3.2.1. WiFi-2 Antenna information

Frequency Range	2400~2485MHz. 5150~5850MHz
Impedance	40.5-16.64jΩ @ 2430MHz 32.4+4.93jΩ @ 5150MHz
Peak Gain	1.79dBi@ 2430MHz 4.31dBi @ 5150MHz
Antenna Type	Dipole

3.2.2. WiFi-2 Antenna Peak Gain

Frequency	2400	2412	2420	2430	2437	2450	2462	2472	2480	2490	2500
Peak Gain (dBi)	1.09	1.52	1.70	1.79	1.78	1.39	1.19	1.17	1.07	0.93	0.53

Frequency	5150	5180	5240	5320	5350	5400	5450	5500	5550	5600	5650	5720	5745	5825	5850
Peak Gain (dBi)	4.31	4.07	4.04	3.83	3.78	3.36	2.83	1.92	1.61	1.36	1.43	1.76	2.36	2.46	1.77

3.2.3 WiFi-2 Antenna Radiation Pattern

