

Antenna Specification and Test Data for PA2M36

Revision History

Version	Date	Author	Description
1.00	2024-06-12	Sean Xiao	Initial release
1.1	2024-06-18	Sean Xiao	Modify

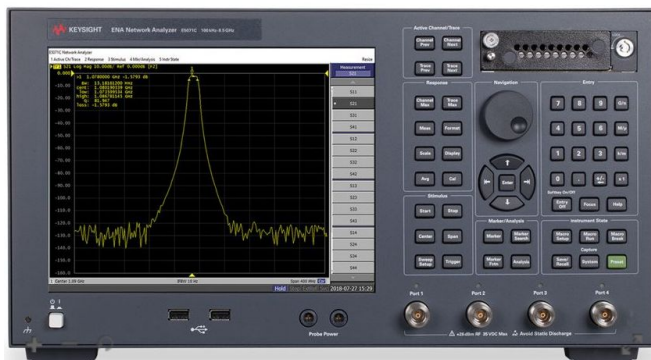
Antenna location

- **Antenna type description: PCB Printed PIFA antenna**
- **PCB printing Antenna manufacture:FII**
- **Antenna model name(foot print name):ANT-U73I112T00**
- **Support band:2.4GHz-2.5GHz**

Test Environment

Chamber Information

- Measurement standards: Foxconn CNT chamber in Hsinchu Company
- Chamber model: ETS AMS-8923-142-G
- Frequency range: 600MHz to 10GHz
- Test instrument:
 - Keysight E5071C ENA
 - Keysight N9020B SA
- Chamber size: 4.8x 4.8x 4.8 m³
- Test tool: EMQuest
- Environment loss @2.4GHz: 22-23dB
- Last calibration date:2024/04/01
- Next calibration date:2024/07/01



Antenna Specification and Test Data

Test Information

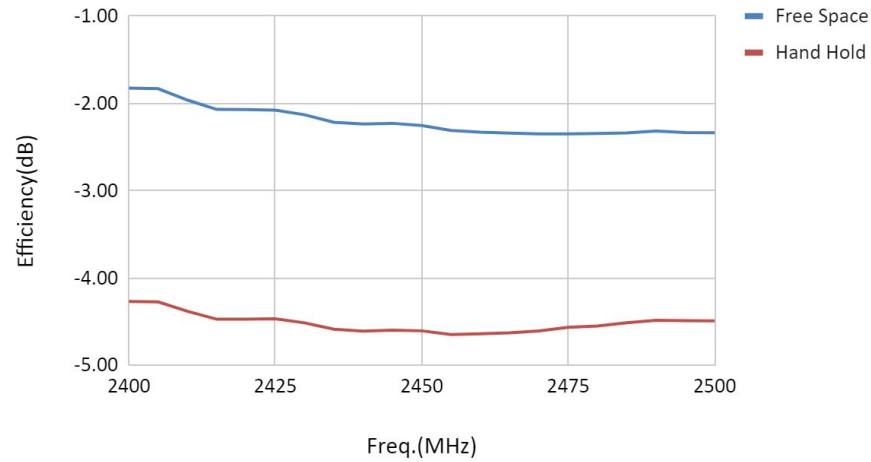
- Test Engineer: Bryan chan
- Test Date: 2024/04/30

Parameter	Values
Frequency Band	2.4GHz to 2.480GHz
Antenna Efficiency	> -3.5dB on free space, >-6.5dB on hand-hold

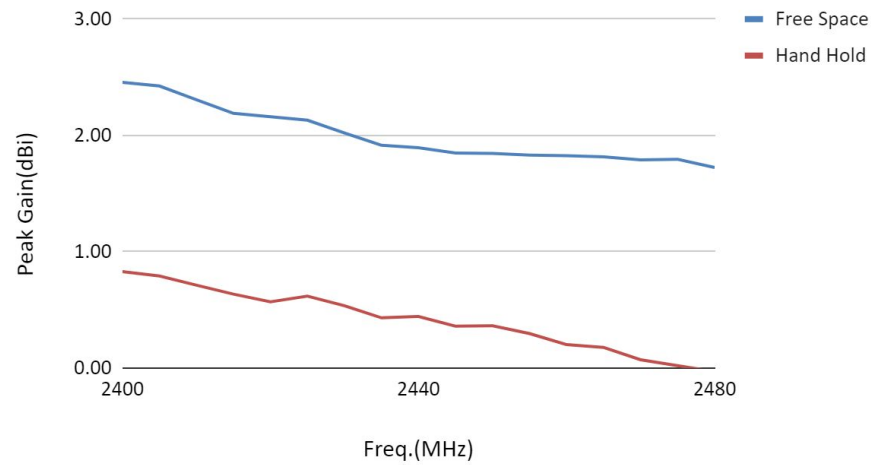
Appendix

Passive Measurement

Efficiency



Peak Gain

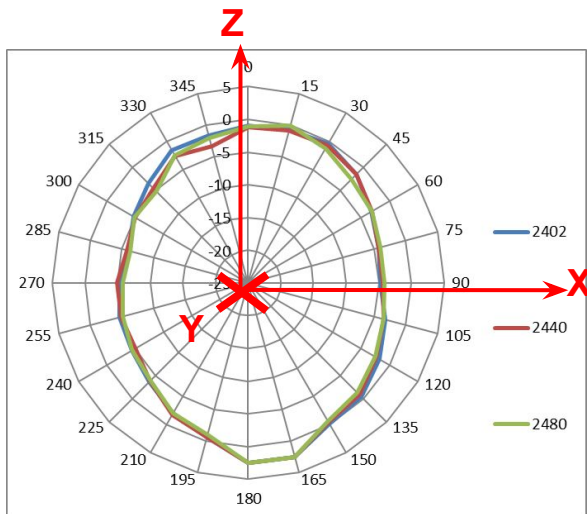


Ch.	Peak gain (Free Space)	Peak gain (Hand Hold)
2400	2.46 dBi	1.13 dBi
2420	2.31 dBi	0.87 dBi
2440	1.9 dBi	0.74 dBi
2460	1.83 dBi	0.5 dBi
2480	1.72 dBi	-0.25 dBi

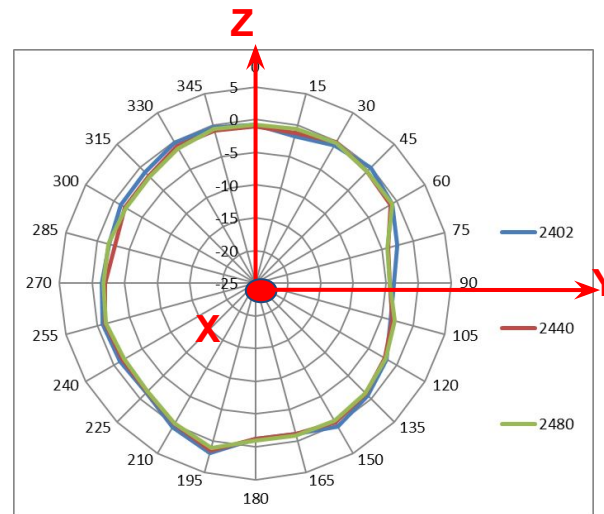
2D Radiation Gain Pattern

E1F4 Ant.-2402/2440/2480 MHz

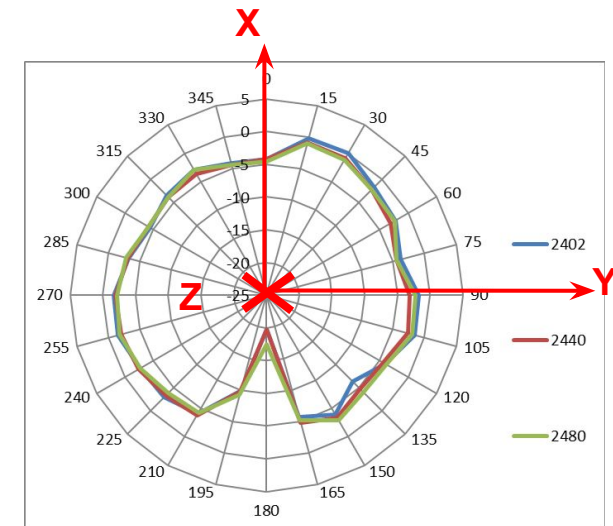
XZ-Plane



YZ-Plane



XY-Plane



3D Radiation Gain Pattern

E1F4 Ant.-2402/2440/2480 MHz

