	Antenna report	
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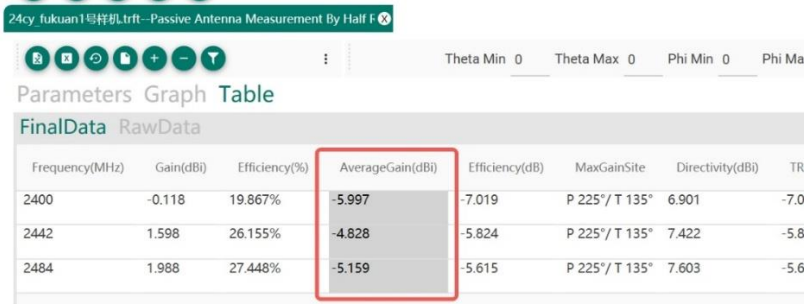
1. Antenna type and size:
   PCB antenna，BT ANT 7.3*18MM
   Testing methods and standards

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149- 2021

2. Instrument list and calibration date

Equipment	Manufacture	Model No	Serial No	Last cal	Due Date
Network analyzer	Keysight	E5080B	MY5940014	2024.1.1	2025.1.1

3. Test date and name of testing personnel
   2023-12-04， Wei Hailong
4. Antenna gain test diagram (2D, 3D) and data



Frequency(MHz)	Gain(dBi)	Efficiency(%)	AverageGain(dBi)	Efficiency(dB)	MaxGainSite	Directivity(dBi)	TR
2400	-0.118	19.867%	-5.997	-7.019	P 225°/ T 135°	6.901	-7.0
2442	1.598	26.155%	-4.828	-5.824	P 225°/ T 135°	7.422	-5.8
2484	1.988	27.448%	-5.159	-5.615	P 225°/ T 135°	7.603	-5.6

5. Test photo
   Please refer to the Annex of Antenna specificiton

6. Test Procedure

Test Step Flow

1. Maintain the test ambient temperature of 23t2 C, the instrument is powered on and preheated for more than 30 minutes
2. Tum on the darkroom power supply, connect the test cable, and set up the sample according to the standard
3. Outline sets the test content objectives and conducts calibration tests
4. Run the EMQuest OTA software, the test is complete, export the corresponding test diagram and test data, and save to the corresponding directory

Test Principle

The test principle can be seen in accordance with the standard ANSI/IEEE std 149-2021

Test Conditions

1.The analyte, the network analyzer for testing, the test equipment and the test cable connector should have good reliability, stability, dynamic range and measurement accuracy to ensure the correctness of the measurement accuracy
2. The measuring instrument should have a certificate of conformity and be within the effective calibration period
3. The analyte should be complete and undamaged, and the test environment should be kept clean

7. commercial test software： Quick OTA
   commercial test software version： 2.0.2.523

8.Test configuration diagram