FCC Part 96.47 Test Report

Applicant : ASKEY COMPUTER CORP.

Equipment : Module
Brand Name : ASKEY
Model Name : NMQ2210

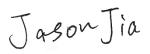
FCC ID : H8NNMQ2210-D187

Standard : FCC Part 96.47

TEST DATE(S) : Aug. 29, 2024 ~ Sep. 02, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.



Approved by: Jason Jia





Report No.: FG471806M

Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: H8NNMQ2210-D187 Page Number : 1 of 12 Issued Date : Dec. 05, 2024

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APPENDIX A. SETUP PHOTO

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History of this test report

Report No.	Version	Description	Issued Date	
FG471806M	01	Initial issue of report	Dec. 05, 2024	

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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3	96.47	End User Device additional requirement	Pass	-

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or
 in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of
 non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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1 General Description

1.1 Applicant

ASKEY COMPUTER CORP.

10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan

1.2 Manufacturer

ASKEY COMPUTER CORP.

10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment Module				
Brand Name	ASKEY			
Model Name NMQ2210				
FCC ID H8NNMQ2210-D187				
IMEI Code 355241830363793				
HW Version	REV3			
SW Version	NMQ2210_NA_V4.2.25.1			
EUT Stage	age Production Unit			

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification					
Tx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz				
Rx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz				
Antenna Type / Gain	<ant.3> 5G NR n48: -1.29 dBi</ant.3>				
	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)				

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1.5 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)				
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone				
Test Site Location	Jiangsu Province 215300 People's Republic of China				
	TEL: +86-512-57900158				
	Sporton Site No.	FCC Designation No.	FCC Test Firm		
Test Site No.	Sporton Site No.	rec besignation No.	Registration No.		
	DFS01-KS		314309		
Test Engineer	Chad Wang	CN1257			
Temperature	20~24.5℃	CN1257			
Relative Humidity	40~60%				

1.6 Applicable Standards

- FCC Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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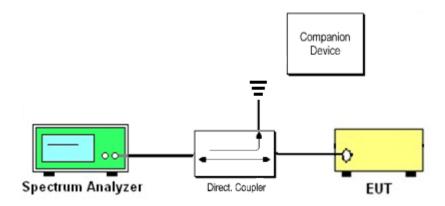
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2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



The companion device is certified CBRS (FCC ID: PIDAS2900)

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3 End User Device additional requirement

3.1 Test Requirement

FCC Part 96.47

- (a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- (1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

3.2 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified CBSD (FCC ID: PIDAS2900) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

- 1. Setup with frequency 3560-3600MHz and power level 28dBm/MHz
- 2. Enable AP service from Ruckus Cloud management
- 3. Check EUD Tx Frequency and power
- 4. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.
- 5. Setup with 3650-3690MHz & power level 18dBm/MHz
- 6. Enable AP service from Ruckus Cloud management
- 7. Check EUD Tx Frequency and power
- 8. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.

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3.3 Test Result



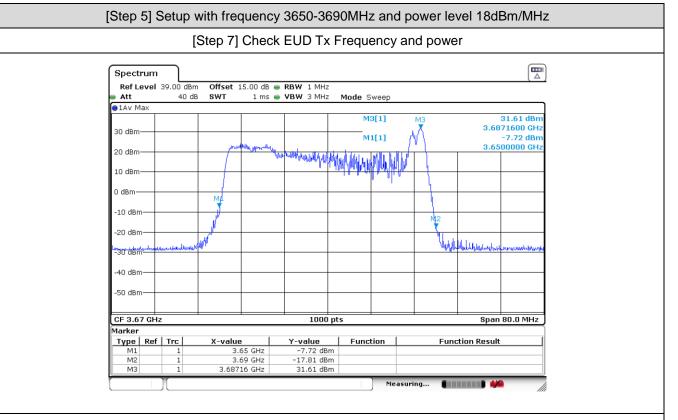
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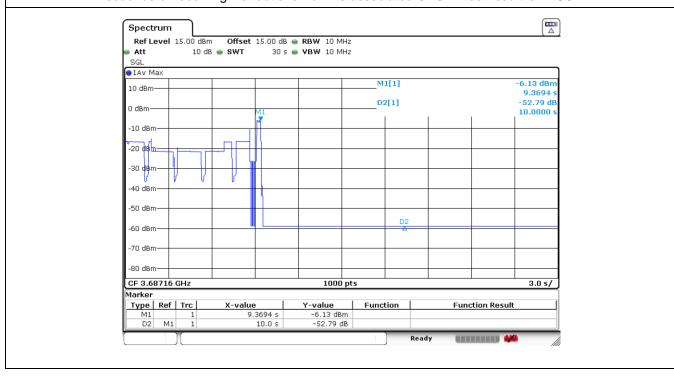
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[Step 8.a.] After changing the frequency and power level,

The module (EUT) discontinues operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD. Test result is PASS.



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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 05, 2024	Aug. 29, 2024 ~ Sep. 02, 2024	Jan. 04, 2025	Conducted (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Aug. 29, 2024 ~ Sep. 02, 2024	NCR	Conducted (DFS01-KS)

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5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty		
Conducted Generated signal Levels	±0.56 dB		
Conducted Time	0.38%		



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