

TEST REPORT

Applicant : PANASONIC CORPORATION OF NORTH AMERICA

Address : Two Riverfront Plaza, Newark, New Jersey, United States
07102-5490

Products : Commercial Microwave Oven

Model No. : NE-2166

Serial No. : FES001

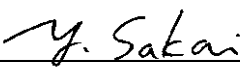
Test Standard : CFR 47 FCC Rules and Regulations Part 18

FCC ID : ACLAP3L41

Test Results : **Pass (in partial testing, see test results)**

Date of Receipt : February 19, 2026




Yasuhisa Sakai
Manager
Japan Quality Assurance Organization
Kitakansai Testing Center
Saito EMC Branch EMC Div.
7-3-10, Saito-asagi, Ibaraki-shi, Osaka 567-0085, Japan

- The test results in this test report was made by using the measuring instruments which are traceable to national standards of measurement in accordance with ISO/IEC 17025.
- The applicable standard, testing condition and testing method which were used for the tests are based on the request of the applicant.
- The test results presented in this report relate only to the offered test sample.
- The contents for the equipment under test (EUT) such as identification information in clause 2 and 6 of this report were provided by the applicant. JQA is not responsible for the test results affected by the incorrect information.
- The contents of this test report cannot be used for the purposes, such as advertisement for consumers.
- This test report shall not be reproduced except in full without the written approval of JQA.
- VLAC does not approve, certify or warrant the product by this test report.
- The laboratory activity period is defined as the time from the date of receipt of the EUT to the date of issue of this report.
- ISO/IEC 17025 accreditation scope is limited to the testing activity.

REVISION HISTORY

File No.	Contents	Issue Date
KL80250983	Initial Issue	March 13, 2026

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1 Summary of Test Results

Applied Standard : CFR 47 FCC Rules and Regulations Part 18 –
Industrial, Scientific, and Medical Equipment

Item	Standard (Procedure)	Result	Note
Radiation Hazard	FCC/OET MP-5 (1986) FCC Part 18 §18.313	Pass	
RF Output Power	FCC/OET MP-5 (1986)	Not Tested	1
ISM Frequency	FCC/OET MP-5 (1986) FCC Part 18 §18.301	Not Tested	1
AC Powerline Conducted Emission	FCC/OET MP-5 (1986) FCC Part 18 §18.307	Not Applicable	2
Radiated Emission	FCC/OET MP-5 (1986) FCC Part 18 §18.305	Not Tested	1
1) By manufacturer request. 2) The EUT is categorized in non-consumer equipment.			

In the approval of test results,

- No deviations were employed from the applied standard.
- No modifications were conducted by JQA to achieve compliance to the limitations.

Reviewed by
Hiroyuki Nakamura / Senior Manager



Tested by
Yasuhisa Sakai / Manager



2 Description of Equipment Under Test (EUT)

Manufacturer	Panasonic Corporation Kitchen Appliances Business Division 2-3-1-3 Noji-higashi, Kusatsu City, Shiga 525-0058, Japan
Products	Commercial Microwave Oven
Model No.	NE-2166
Serial No.	FES001
Product Type	Pre-production
Date of Manufacture	September 8, 2025
Power Rating	208/240VAC 60Hz
Rated RF Power Output	2970 W
EUT Grounding	Grounded at the plug end of the power line
Type of Device	Non-consumer equipment using ISM frequency
EUT Authorization	Certification
Operating Frequency	2450 MHz

3 Test Location

Japan Quality Assurance Organization (JQA)
 Kitakansai Testing Center Saito EMC Branch EMC Div.
 7-3-10, Saito-asagi, Ibaraki-shi, Osaka 567-0085, Japan

4 Accreditation of Test Laboratory

The test laboratory is accredited under ISO/IEC 17025 by the following accreditation bodies and the test facility of the laboratory is registered by the following bodies.

Test Laboratory	Body	Code/No. or Description
Kitakansai Testing Center Saito EMC Branch EMC Div.	VLAC	Accreditation No. VLAC-001-2
	BSMI	Laboratory Code SL2-IS/IN/R1/R2/A1-E-6006
	CNAS	Accreditation No. L8352
	VCCI	Laboratory Registration No. A-0002
	FCC	Designation No. JP5008 Test Firm Registration No. 683630
	METI	Registered conformity assessment body for Japan electrical appliances and material law

If the ILAC MRA mark does not appear on this cover, it is outside the scope of ISO/IEC 17025.

5 Measurement Uncertainty

Item	Frequency	Uncertainty (U)
AC Powerline Conducted Emission	9 kHz – 30 MHz	± 3.1 dB
	150 kHz – 30 MHz	± 2.6 dB
Radiated Emission	9 kHz – 30 MHz	± 3.0 dB
	30 MHz – 200 MHz	± 4.0 dB
	200 MHz – 1000 MHz	± 3.8 dB
	1 GHz – 6 GHz	± 4.7 dB
	6 GHz – 18 GHz	± 4.6 dB
	18 GHz – 40 GHz	± 5.1 dB

Determining compliance with the limits in this test report was based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty (MIU).

The reported expanded uncertainty of measurement, U is described with using the coverage factor $k = 2$, to give a level of confidence of approximately 95 %.

The expanded MIUs for CISPR measurement methods determined by JQA are less than U_{cispr} according to CISPR 16-4-2.

6 Setup of EUT

6.1 Test Configuration

The equipment under test (EUT) consists of :

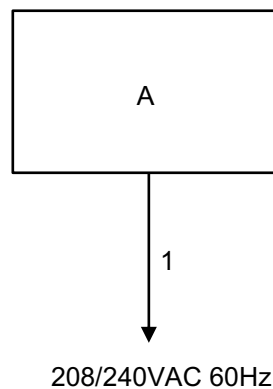
	Item	Manufacturer	Model No.	Serial No.
A	Commercial Microwave Oven	Panasonic	NE-2166	FES001

The auxiliary equipment (AE) used for testing :
None

Type of Cable:

No.	Description	Identification (Manu. etc.)	Cable Shielded	Ferrite Core	Length (m)
1	AC Cord	--	NO	NO	1.5

6.2 Test Arrangement (Drawings)



6.3 Operating Condition

Test Mode
Maximum RF output

7 Test Item

7.1 Radiation Hazard

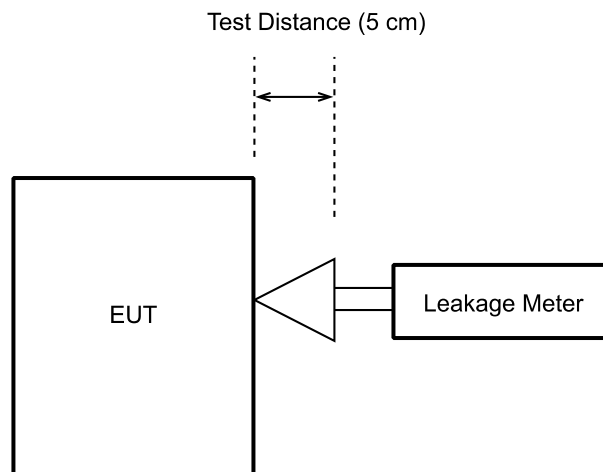
7.1.1 Test Site and Instruments

Test Site : Shielded Room S4					
Type	Model	Serial No. (ID)	Manufacturer	Last Cal.	Cal. Due
Microwave Oven Survey Meter	HI-1710A	00275406	ETS LINDGREN	2025/09/12	2026/09/11
Microwave Oven Probe	HI-2623	--	ETS LINDGREN	2025/09/12	2026/09/11
Thermo-Hygrometer	testo 608-H2	30050651 (F-72)	testo	2025/05/15	2026/05/14
Barometer	BAROMEX	02952 (F-48)	SATO	2025/08/28	2026/08/27

7.1.2 Test Method and Test Setup (Diagrammatic illustration)

Radiation leakage is measured in the as-received condition with the oven door closed using a microwave leakage meter.

A 275 ml water load in a beaker is placed in the center of the oven and the oven is operated at maximum output power. While oven operating, the leakage is checked and the maximum leakage is recorded.



7.1.3 Test Data

Test Date: March 9, 2026
Temp.: 26 °C, RH: 33 %, Atm.: 1004 hPa

Test Voltage : 208VAC 60Hz
Test Condition : 275 ml water load (FDA CFR21 method)

Maximum level (mW/cm ²)	Limits (mW/cm ²)	Test Results
0.141	1.0	Pass

Test Voltage : 240VAC 60Hz
Test Condition : 275 ml water load (FDA CFR21 method)

Maximum level (mW/cm ²)	Limits (mW/cm ²)	Test Results
0.126	1.0	Pass

Test Voltage : 208VAC 60Hz
Test Condition : 1000 ml water in glass beaker (IEC 60705) *

Maximum level (mW/cm ²)	Limits (mW/cm ²)	Test Results
0.038	1.0	--

Test Voltage : 240VAC 60Hz
Test Condition : 1000 ml water in glass beaker (IEC 60705) *

Maximum level (mW/cm ²)	Limits (mW/cm ²)	Test Results
0.025	1.0	--

*) As an additional reference test, 1000 ml water in glass beaker was used by manufacturer request.

7.1.4 Test Setup (Photographs)

--- END OF REPORT ---