

LG Electronics USA, Inc. MPE ASSESSMENT REPORT

Report Type:

FCC Part §2.1091, §2.1093 and §1.1307(b) assessment report

Model: MSER1130#

REPORT NUMBER: 2407B2169SHA-002

ISSUE DATE: September 3, 2024

DOCUMENT CONTROL NUMBER: TTRFFCCMPE-01_V1 © 2018 Intertek





TEST REPORT

Telephone: 86 21 6127 8200 www.intertek.com Report no.: 2407B2169SHA-002

Applicant:	LG Electronics USA, Inc. 111 Sylvan Avenue North Building, Englewood Cliffs, New Jersey, United States
Manufacturing Site:	LG Electronics Tianjin Appliances Co., Ltd. No.9 Jinwei Road, Bei Chen Dist., Tianjin 300402, People's Republic of China
Product Name:	Microwave oven
Type/Model:	MSER1130# ("#"Suffix from A to Z or 0 to 9 for inventory control.)
FCC ID:	BEJS1132NAG

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 18 (2018) FCC/OET MP-5 (1986) KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1093 FCC Part1.1307(b), 1.1310, 2.1091

PREPARED BY:

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Revision History

Report No.	Version	Description	Issued Date
2407B2169SHA-002	Rev. 01	Initial issue of report	September 3, 2024

Total Quality. Assured.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Microwave oven		
	MSER1130#		
Type/Model:	("#"Suffix from A to Z or 0 to 9 for inventory control.)		
Brand Name:	LG		
	The EUT is Microwave oven which has series models, and all the electrical		
	and mechanical characteristics are the same as basic model except		
Description of EUT:	inventory control. The model MSER1130B was chosen to testing.		
Rating:	AC 120V 60Hz Output: 900W		
Frequency:	2450MHz		
EUT type:	Table top 🔲 Floor standing		
Software Version:	/		
Hardware Version:	/		
Sample received date:	August 1, 2024		
Date of test:	August 1, 2024 ~ August 16, 2024		



1.2 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.			
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China			
Telephone:	86 21 61278200			
Telefax:	86 21 54262353			

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

Total Quality. Assured.

2 Radiation Hazard Measurement

Test result: Pass

2.1 Limit

A maximum of 1.0mW/cm² is allowed in accordance with the applicable FCC standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

2.2 Radiation Hazard (Health) Requirement

For ISM equipment operating on higher frequencies (above 900 MHz), in particulars microwave ovens and medical diathermy equipment, radiation leakage should be measured in accordance with the current Bureau of Radiological Health standard, employing an electromagnetic radiation monitor. This test is made primarily to assure that personnel will not be exposed to radiation hazard in testing the equipment. Equipment submitted to the FCC which have radiation leakage apparently in excess of BRH limit will be reported to BRH for their evaluation. See FCC Bulletin OST 56, "Questions and Answers about Biological Effects and Potential Hazards of Radiofrequency Radiation".

2.3 Measurement Procedure

The EUT was set-up according to the FCC MP-5 and FCC Part 18 for Radiation Hazard Measurement. The measurement was using a microwave leakage meter to measure the Radiation leakage in the as-received condition with the oven door closed. A 1000ml water load in a beaker was located in the center of the oven and the Microwave Oven was set to maximum power. While the oven operating, the microwave meter will check the leakage and then record the maximum leakage.



2.4 MPE Assessment Limit

Mobile device exposure for standalone operations:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)		
Limits For General Population/Uncontrolled Exposure						
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	*(180/f2)	30		
30-300	27.5	0.073	0.2	30		
300-1500	1	1	f/1500	30		
1500-100,000	1	1	1.0	30		

F=Frequency in MHz; *Plane-wave equivalent power density

A maximum of 1.0mW/cm² is allowed in accordance with the applicable FCC standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

2.3 Test Results

There was no microwave leakage exceeding a power level of 0.47mW/cm₂ observed at any point 5cm or more from the external surface of the oven.