

FCC 47 CFR PART 18

TEST REPORT

Test Report No. : OT-242-RED-124
Reception No. : 2402000433
Applicant : LG Electronics USA, Inc.
Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, 07632, United States
Manufacturer : LG Electronics USA, Inc.
Address : 170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do 51533 Korea
Type of Equipment : HOUSEHOLD ELECTRIC RANGE
Model Name : LSIL633TFE
Multiple Model Name : LSIL633**E
FCC ID. : BEJS471111A
Serial number : N/A
Total page of Report : 7 pages (including this page)
Date of Incoming : February 06, 2024
Date of Issuing : February 29, 2024

summary

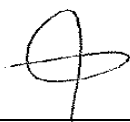
The equipment complies with the requirement of *FCC CFR 47 PART 18(§ 18.313)*.

This test report contains only the results of a single test of the sample supplied for the examination.

It is not a general valid assessment of the features of the respective products of the mass-production.

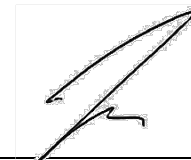
This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.

Reviewed by:



Sun-Teak, Oh / Manager
EMC Testing Div.
ONETECH Corp.

Approved by:



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CONTENTS

PAGE

1. VERIFICATION OF COMPLIANCE	4
2. GENERAL INFORMATION.....	5
2.1 PRODUCT DESCRIPTION.....	5
2.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT.	5
2.3 TEST CONDITION.....	5
3. EUT MODIFICATIONS.....	5
4. SUMMARY OF TEST RESULTS	6
4.1 TEST EQUIPMENT USED.....	6

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-242-RED-124	February 29, 2024	Initial Release	All

* Please contact us (e-mail: info@onetech.co.kr) for verification of this test report.

1. VERIFICATION OF COMPLIANCE

APPLICANT	LG Electronics USA, Inc. 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, 07632, United States
MANUFACTURER	LG Electronics USA, Inc. 170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do 51533 Korea
FACTORY	LG Electronics USA, Inc. 170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do 51533 Korea

E.U.T. DESCRIPTION	HOUSEHOLD ELECTRIC RANGE
MEASUREMENT PROCEDURES	MP-5: 1986
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
STANDARDS	FCC Part 18, Section 18.313
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	10 m semi anechoic chamber

ONETECH Corp. tested the above equipment in accordance with the requirements set forth in the above standard. The test results show that equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

2. GENERAL INFORMATION

2.1 Product Description

The LG Electronics USA, Inc., Model LSIL633TFE (referred to as the EUT in this report) is a HOUSEHOLD ELECTRIC RANGE. The product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Metal & Plastic
Temperature Range	-40 °C ~ +85 °C
LIST OF EACH OSC. or CRY. FREQ. (FREQ. >= 1 MHz)	10 MHz
RF OPERATING FREQUENCY	Wi-Fi (2 412 – 2 462 MHz), Bluetooth (2 402 – 2 480 MHz) (Wi-Fi Module Model: LCWB-001) * Wi-Fi Module FCC ID : BEJ-LCWB001
NUMBER OF PCB LAYERS	-
P. C. Board name	-
Induction cooking range Operating frequency (ISM frequency band)	20 kHz ~ 75 kHz
ELECTRICAL RATING	240 V, 11.4 kW Or 208 V, 9.45 kW/ 60 Hz
EXTERNAL CONNECTOR	AC IN

2.2 Alternative type(s)/model(s); also covered by this test report.

LSIL633TFE, LSIL633**E		
Variable	Range of variable	Content
1st '*'	T or 2	Door
2nd '**'	A to Z	Cosmetic features

2.3 Test Condition

The test conditions of the noted test mode(s) in this test report are;

-. Test Mode: After applying AC power to the EUT, it was tested by checking the cook mode operation and wireless operation after connecting wirelessly to the smartphone application.

3. EUT MODIFICATIONS

-. None

4. Summary of Test Results

Test Date: February 29, 2024

4.1 Test Equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ -	ESW 44	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 07, 2023 (1Y)
■ -	CO3000	Innco Systems GmbH	Controller	N/A	N/A
■ -	DT5000	Innco Systems GmbH	Turn Table	N/A	N/A
■ -	FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2022 (2Y)

All test equipment used is calibrated on a regular basis.

-. 18.313 Radio frequency exposure requirements

1.1307 (b)(3)(ii)(A)

The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

-. 447498 D04 Interim General RF Exposure Guidance v01

2.2.1 1-mW Test Exemption for Multiple Sources

As discussed in § 1.1307(b)(3)(ii)(A), the 1 mW exemption intended for single transmitters may be also applied to simultaneous transmission conditions, within the same host device, according one of the following criteria:

- When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.
- When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period. This exemption may not be combined with any other exemption.

Elements	Highest Emissions @ 10m [dBuV/m]	EIRP [dBm]	EIRP [mW]
Element 1	78.4	-6.37	0.230
Element 2	74.4	-10.37	0.091
Element 3	74.1	-10.67	0.086
Element 4	79.5	-5.27	0.297
These values are most conservative values based on measured emission regardless voltage and polarization			

$$\text{EIRP[dBm]} = E [\text{dB}\mu\text{V/m}] + 20 \log (10 [\text{m}]) - 104.77$$

$$\text{Aggregated maximum power} = 0.230 + 0.091 + 0.086 + 0.297 = 0.704 \text{ mW}$$

Therefore, 1mW test exemption can be applied and this device complies 18.313 requirement in accordance with 1.1307(b)(3)(ii)(A).