# FCC 47 CFR PART 18

# TEST REPORT

| | |
|---|---|
| **Test Report No.** | **: OT-257-RED-133** |
| **Reception No.** | **: 2507002466** |
| **Applicant** | **: LG Electronics Inc.** |
| **Address** | **: 222 LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 17709, South Korea** |
| **Manufacturer** | **: LG Electronics, Inc.** |
| **Address** | **: 170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do 51533 Korea** |
| **Type of Equipment** | **: HOUSEHOLD ELECTRIC RANGE** |
| **Model Name** | **: LSIL6334FE** |
| **Multiple Model Name** | **: LSIL6334*E** |
| **FCC ID.** | **: 2BO3LS47113HA** |
| **Serial number** | **: N/A** |
| **Total page of Report** | **: 8 pages (including this page)** |
| **Date of Incoming** | **: June 16, 2025** |
| **Date of Issuing** | **: July 23, 2025** |

**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:

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EMC Testing Div.
ONETECH Corp.

Approved by:

Seung-Hyun, Park / Chief Engineer
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ONETECH Corp.

 

**ONETECH Corp.**: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

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## Revision History

| Rev. No. | Issue Report No. | Issued Date | Revisions | Section Affected |
|---|---|---|---|---|
| 0 | OT-239-RED-086 | September 27, 2023 | Initial Release | All |
| 1 | OT-256-RED-081 | June 23, 2025 | -. Changed the Wi-Fi module, Main board, Inverter PCB, Filter PCB, Cooktop PCB<br>-. Manufacturer Modification<br>-. Delete Factory | All |
| 2 | OT-257-RED-133 | July 23, 2025 | Changed the Induction cooking range Operating frequency (ISM frequency band).<br>* The test data of the original test report was used because no additional tests were required. (The original Test Report No. OT-256-RED-081) | All |
| | | | | |

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

 

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## 1. VERIFICATION OF COMPLIANCE

| | |
|---|---|
| APPLICANT | LG Electronics Inc.<br>222 LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 17709, South Korea |
| MANUFACTURER | LG Electronics, Inc.<br>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.

 

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# 2. GENERAL INFORMATION

## 2.1 Product Description

The LG Electronics Inc., Model LSIL6334FE (referred to as the EUT in this report) is a HOUSEHOLD ELECTRIC RANGE.

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 2.4 GHz<br>(Wi-Fi Module Model: LCWB-009)<br>* Wi-Fi Module FCC ID : BEJ-LCWB009 |
| NUMBER OF PCB LAYERS | - |
| P. C. Board name | - |
| Induction cooking range<br>Operating frequency (ISM frequency band) | 20 kHz ~ 75 kHz |
| ELECTRICAL RATING | 120/240 V, 11.9 kW Or 120/208 V, 10.2 kW/ 60 Hz |
| EXTERNAL CONNECTOR | AC IN |

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

| LSIL6334FE, LSIL6334*E | | |
|---|---|---|
| Variable | Range of variable | Content |
| 1st '*' | A to Z | Cosmetic features. |

# 3. EUT MODIFICATIONS

-. None

 

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## 4. Summary of Test Results

Test Date: June 19, 2025

### 4.1 Test Equipment used

| | Model Number | Manufacturer | Description | Serial Number | Last Cal. (Interval) |
|---|---|---|---|---|---|
| ■ - | ESW 44 | Rohde & Schwarz | EMI Test Receiver | 101851 | Mar. 05, 2025 (1Y) |
| ■ - | CO3000 | Innco Systems GmbH | Controller | N/A | N/A |
| ■ - | DT5000 | Innco Systems GmbH | Turn Table | N/A | N/A |
| ■ - | HLA 6121 | TESEQ | Loop Antenna | 50841 | Apr. 27, 2024 (2Y) |

All test equipment used is calibrated on a regular basis.



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**-. 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:

a) 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.

b) 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 | 78.6 | -6.17 | 0.241 |
| Element 2 | 68.4 | -16.37 | 0.023 |
| Element 3 | 74.6 | -10.17 | 0.096 |
| Element 4 | 68.8 | -15.97 | 0.025 |
| These values are most conservative values based on measured emission regardless voltage and polarization | | | |

EIRP[dBm] = E [dBμV/m] + 20 log (10 [m]) - 104.77

Aggregated maximum power = 0.241+0.023+0.096+0.025= 0.385 mW

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

 

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**Output power into antenna & RF exposure evaluation distance**

**WLAN (2.4 G)**

**- Maximum tune up tolerance**

| Operating Frequency (㎒) | Output Average Power to Antenna (dBm) | Antenna gain (dBi) | Power Density at 20 cm (㎽/㎠) | Limits (㎽/㎠) |
|---|---|---|---|---|
| 2412 ~ 2462 | 17.35 | -1.05 | 0.008 487 | 1 |

**Note:**

- The power density Pd (5th column) at a distance of 20 ㎝ calculated from the friis transmission formula is far below the limit of 1 ㎽/㎠.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with minimum 20 ㎝ between the radiator and your body.
- The antenna gain of this transmitter is less than 6 dBi and must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

## Conclusion: No SAR is required.

## Simultaneous transmission of RF Exposure test exclusion for worst case configuration.

Element: the ratio is 0.385 / 1
WLAN: the ratio is 0.008 487 / 1

Confirm the sum result of individual MPEs ratio is ≤ 1.0;

Element + WLAN: (0.385 / 1) + (0.008 487 / 1) = 0.393 ≤ 1.0

So, this device meets the KDB447498 D01 v06 section 7.2 requirement of “Simultaneous transmission MPE test exclusion”.

 

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