

RF EXPOSURE REPORT

OF

Applicant: Universal Electronics Inc.
201 East Sandpointe Ave 7th Floor Santa Ana CA 92707
USA

Product Name: Voice Remote Control

Brand Name: Sony

Model No.: RMF-TX611U, RMF-TX611B

Model Difference: Key label differences

Report Number: ER/2019/A0045

FCC ID MG3-TX611U

FCC Rule Part Part 2.1091

Issue Date: Nov. 07, 2019

Date of EUT Received: Oct. 14, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation in this report is in compliance with FCC Rules Part 2.

The test results of this report relate only to the tested sample identified in this report.

Approved By: _____

John Yeh / Asst. Manager

John Yeh

Testing Laboratory
0513

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

| Revision | Description | Issue Date | Remark |
|----------|-------------|---------------|-------------------------|
| Rev.00 | Original. | Nov. 07, 2019 | Revised By: Karen Huang |

Note:

1. Multiple Model numbers or Trademarks

The variant model numbers are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

2. Disclaimer

Variant information between model numbers is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1. RF EXPOSURE

1.1 Standard Applicable:

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Portable device with its physical nature to be used nearby, the distance between radiating structure and human is less than 20cm.

As per KDB 447498 D01 4.3.1, The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g Head & Body SAR and ≤ 7.5 for 10-g extremity Hand SAR, where

*f (GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation*

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1.2 Measurement Result:

Mode: BLE

Step 1:

This is a portable device and the max. output power including tune-up tolerance is 5.821 (mW), lower than the threshold given and derived as formula given above, where

$$=5.821(\text{mW})/5(\text{mm})*\sqrt{2.48 \text{ (GHz)}} =1.833 < 3.0$$

| Frequency (MHz) | Max. output power including tune-up tolerance(dBm) | Max. output power including tune-up tolerance(mW) | Distance (mm) | Result |
|-----------------|--|---|---------------|--------|
| 2480 | 7.65 | 5.821 | 5 | 1.833 |

Mode: Zigbee

Step 1:

This is a portable device and the max. output power including tune-up tolerance is 5.741 (mW), lower than the threshold given and derived as formula given above, where

$$=5.741(\text{mW})/5(\text{mm})*\sqrt{2.475 \text{ (GHz)}} =1.806 < 3.0$$

| Frequency (MHz) | Max. output power including tune-up tolerance(dBm) | Max. output power including tune-up tolerance(mW) | Distance (mm) | Result |
|-----------------|--|---|---------------|--------|
| 2475 | 7.59 | 5.741 | 5 | 1.806 |

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

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The table of quick reference in terms of power threshold

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz | 5 | 10 | 15 | 20 | 25 | mm |
|------|----|----|-----|-----|-----|-----------------------------------|
| 150 | 39 | 77 | 116 | 155 | 194 | SAR Test Exclusion Threshold (mW) |
| 300 | 27 | 55 | 82 | 110 | 137 | |
| 450 | 22 | 45 | 67 | 89 | 112 | |
| 835 | 16 | 33 | 49 | 66 | 82 | |
| 900 | 16 | 32 | 47 | 63 | 79 | |
| 1500 | 12 | 24 | 37 | 49 | 61 | |
| 1900 | 11 | 22 | 33 | 44 | 54 | |
| 2450 | 10 | 19 | 29 | 38 | 48 | |
| 3600 | 8 | 16 | 24 | 32 | 40 | |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 6 | 13 | 19 | 26 | 32 | |
| 5800 | 6 | 12 | 19 | 25 | 31 | |

Note that the table present above is the table of quick reference, indexing the level of power threshold with respect to the corresponding frequency. The value of the index may be deviated, and therefore, the derivation of exemption based on KDB447498 D01 is used in this test report, relevantly.

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