# FCC RF EXPOSURE REPORT

*For*

**External PIR Sensor**

**MODEL NUMBER: ESLTOPJX00LR-XXX**
**(Where XXX may be any alphanumeric character or blank)**

**FCC ID: 2AJ9LESLTOPJX00LR**

**PROJECT NUMBER: 4789357614**

**REPORT NUMBER: 4789357614-2**

**ISSUE DATE: Apr. 13, 2020**

*Prepared for*

**Fulham Electronic Co., Ltd.**

*Prepared by*

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# 1. ATTESTATION OF TEST RESULTS

**Applicant Information**

| | |
|---|---|
| Company Name: | Fulham Electronic Co., Ltd. |
| Address: | 4th Floor, Building #18, Co. Park, No. 8, Heying Road, Changping District, Beijing, China |

**Manufacturer Information**

| | |
|---|---|
| Company Name: | Fulham Electronic Co., Ltd. |
| Address: | 4th Floor, Building #18, Co. Park, No. 8, Heying Road, Changping District, Beijing, China |

**EUT Description**

| | |
|---|---|
| EUT Name: | External PIR Sensor |
| Model: | ESLTOPJX00LR-XXX<br>(Where XXX may be any alphanumeric character or blank) |
| Sample Status: | Normal |
| Sample Received Date: | Mar. 05, 2020 |
| Date of Tested: | Mar. 22, 2019 ~ Apr 02, 2020 |

| APPLICABLE STANDARDS | |
|---|---|
| **STANDARD** | **TEST RESULTS** |
| FCC Guidelines for Human Exposure IEEE C95.1 | Complies |

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06 and FCC Guidelines for Human Exposure IEEE C95.1.

## 3. FACILITIES AND ACCREDITATION

| | |
|---|---|
| Accreditation Certificate | **A2LA (Certificate No.: 4829.01)**<br>**UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA.**<br>**FCC (FCC Designation No.: CN1247)**<br>**UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.**<br>**IC (IC Designation No.: 25056)**<br>**UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.** |

Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OATS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

# 4. REQUIREMENT

**LIMIT**

Limits for General Population/Uncontrolled Exposure

| Limits for General Population/Uncontrolled Exposure | | | | |
|---|---|---|---|---|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) ($mW/cm^2$) | Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes) |
| 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 | -- | -- | f/150 | 30 |
| 1500-100,000 | -- | -- | 1.0 | 30 |
| Note 1: f = frequency in MHz, * means Plane-wave equivalent power density | | | | |
| Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. | | | | |
| Note 3: The limit value 1.0$mW/cm^2$ is available for this EUT. | | | | |

**MPE CALCULATION METHOD**

$S = PG/(4\pi R^2)$

where: S = power density (in appropriate units, e.g. mW/ cm2)
P = power input to the antenna (in appropriate units, e.g., mW) (the measured power value see Report: F12124 Section 6.6)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

## CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

| BLE (Worst case) | | | | | | |
|---|---|---|---|---|---|---|
| Output Power to Antenna | | Antenna Gain | | Power Density | Limit | Test Result |
| (dBm) | (mW) | (dBi) | (Numeric) | (mW/cm2) | (mW/cm2) | -- |
| -0.5 | 1.00 | 1 | 1.26 | 0.0002 | 1 | Complies |

Note: the calculated distance is 20cm.

**END OF REPORT**