# RF Exposure Evaluation Report

| | | |
|---|---|---|
| **Product** | : | Curtain rolling motor |
| **Trade mark** | : | N/A |
| **Model/Type reference** | : | M2805EIGB |
| **Serial Number** | : | N/A |
| **Report Number** | : | EED32L00252001 |
| **FCC ID** | : | 2AU8E-M2805EIGB |
| **Date of Issue** | : | Oct. 29, 2019 |
| **Test Standards** | : | 47 CFR Part 1.1307<br>47 CFR Part 1.1310 |
| **Test result** | : | PASS |

Prepared for:

**Smartplus Inc**
**415 Steelcase Road, East Markham, Ontario Canada, L3R 1G3**

Prepared by:

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| | | | |
|---|---|---|---|
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| | Mark Chen | | Smile Zhong |
| Reviewed by: | Ware Xin | Approved by: | Kevin Yang |
| | Ware Xin | | Kevin Yang |
| Date: | Oct. 29, 2019 | | Check No.::3096315740 |

CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. Report Seal

# 2 Version

| Version No. | Date | Description |
|---|---|---|
| 00 | Oct. 29, 2019 | Original |
| | | |
| | | |

# 3 Contents

# 4 General Information

## 4.1 Client Information

| | |
|---|---|
| Applicant: | Smartplus Inc |
| Address of Applicant: | 415 Steelcase Road, East Markham, Ontario Canada, L3R 1G3 |
| Manufacturer: | DONGGUAN RIDONG INTELLIGENT EQUIPMENT CO., LTD. |
| Address of Manufacturer: | No.1 Shuibei Industry Estate, Fenggang Town, Dongguan City, Guangdong, China |
| Factory: | DONGGUAN RIDONG INTELLIGENT EQUIPMENT CO., LTD. |
| Address of Factory: | No.1 Shuibei Industry Estate, Fenggang Town, Dongguan City, Guangdong, China |

## 4.2 General Description of EUT

| | |
|---|---|
| Product Name: | Curtain rolling motor |
| Model No.(EUT): | M2805EIGB |
| Trade Mark: | N/A |
| EUT Supports Radios application | 914MHz，915MHz，916MHz |

## 4.3 Product Specification subjective to this standard

| | | |
|---|---|---|
| Frequency Range: | 914MHz ~ 916MHz | |
| Modulation Type: | FSK | |
| Test Power Grade: | Defualt | |
| Test Software of EUT: | Defualt | |
| Antenna Type: | Dipole antenna; | |
| Antenna Gain: | 3dBi | |
| Power Supply: | Adapter | Model: BX18W-0841000G<br>Input: AC 100-240V~50/60Hz, 0.3A<br>Output: 8.4V⎓1A |
| Max EIRP | 86.1 dBμV/m (-9.13 dBm) | |
| | The Max EIRP data refer to the report EED32L00252201 | |
| Sample Received Date: | Sep. 05, 2019 | |
| Sample tested Date: | Sep. 05, 2019 to Oct. 24, 2019 | |
| The tested sample(s) and the sample information are provided by the client. | | |

## 4.4 Test Location

All tests were performed at:
Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164

## 4.5 Deviation from Standards

None.

## 4.6 Abnormalities from Standard Conditions

None.

## 4.7 Other Information Requested by the Customer

None.

# 5 SAR Evaluation

## RF Exposure Compliance Requirement

### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 5.1.2 Limits

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity 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[17]

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

### 5.1.3 EUT RF Exposure

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

( 0.19mW / 5mm ) * ( 0.915GHz ^0.5 )= 0.0369

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [ √f(GHz)] = 2 < 3.0

Therefore, standalone SAR measurements are not required for both head and body

# PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00252001 for EUT external and internal photos.

*** End of Report ***