

## RF Exposure Report

**Report No.:** SA190226C19A

**FCC ID:** HD5-HONST60

**Test Model:** HON-ST60

**Received Date:** Apr. 09, 2019

**Test Date:** May 29 ~ May 31, 2019

**Issued Date:** Jun. 05, 2019

**Applicant:** Honeywell International Inc

**Address:** 9680 Old Bailes Rd Fort Mill South Carolina United States

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration /** 788550 / TW0003  
**Designation Number:**



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### Release Control Record

| Issue No.    | Description       | Date Issued   |
|--------------|-------------------|---------------|
| SA190226C19A | Original release. | Jun. 05, 2019 |

## 1 Certificate of Conformity

**Product:** Wi-Fi Module

**Brand:** Honeywell

**Test Model:** HON-ST60

**Sample Status:** Engineering sample

**Applicant:** Honeywell International Inc

**Test Date:** May 29 ~ May 31, 2019

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Pettie Chen, **Date:** Jun. 05, 2019  
Pettie Chen / Senior Specialist

**Approved by :** Bruce Chen, **Date:** Jun. 05, 2019  
Bruce Chen / Project Engineer

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

| Frequency Range (MHz)                                 | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Average Time (minutes) |
|-------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| Limits For General Population / Uncontrolled Exposure |                               |                               |                                     |                        |
| 0.3-1.34                                              | 614                           | 1.63                          | (100)*                              | 30                     |
| 1.34-30                                               | 824/f                         | 2.19/f                        | (180/f <sup>2</sup> )*              | 30                     |
| 30-300                                                | 27.5                          | 0.073                         | 0.2                                 | 30                     |
| 300-1500                                              | ...                           | ...                           | f/1500                              | 30                     |
| 1500-100,000                                          | ...                           | ...                           | 1.0                                 | 30                     |

f = Frequency in MHz; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$r$  = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

## 3 Calculation Result of Maximum Conducted Power

| Frequency Band (MHz) | Max Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|----------------------|-----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| WLAN 2412~2462       | 16.83           | 2.44               | 20            | 0.017                               | 1                           |
| WLAN 5180~5240       | 17.49           | 2.44               | 20            | 0.020                               | 1                           |
| WLAN 5260~5320       | 15.40           | 2.44               | 20            | 0.012                               | 1                           |
| WLAN 5500~5725       | 14.01           | 2.44               | 20            | 0.009                               | 1                           |
| WLAN 5725~5825       | 11.28           | 2.44               | 20            | 0.005                               | 1                           |

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