

## RF Exposure Report

**Report No.:** SA171206E01C

**FCC ID:** NKRM14Q2SG

**Test Model:** M14Q2SG

**Received Date:** Jan. 02, 2019

**Test Date:** Jan. 03 ~ Jan. 15, 2019

**Issued Date:** Jan. 23, 2019

**Applicant:** Wistron NeWeb Corporation

**Address:** 20 Park Ave. II, Hsinchu Science Park, Hsichu 308, Taiwan

**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
SA171206E01C	Original release	Jan. 23, 2019

## 1 Certificate of Conformity

**Product:** LGA Module

**Brand:** Wistron NeWeb Corporation

**Test Model:** M14Q2SG

**Sample Status:** Engineering sample

**Applicant:** Wistron NeWeb Corporation

**Test Date:** Jan. 03 ~ Jan. 15, 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 :** Celine Chou , **Date:** Jan. 23, 2019  
Celine Chou / Senior Specialist

**Approved by :** Bruce Chen , **Date:** Jan. 23, 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				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

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

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

Function	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WCDMA Band 2	1852.4-1907.6	25.0	0.6	20	0.072	1
WCDMA Band 5	826.4-846.6	25.5	-3.5	20	0.032	0.550
LTE Band 2	1850.7-1909.3	25.0	0.6	20	0.072	1
LTE Band 4	1710.7-1754.3	25.0	0.6	20	0.072	1
LTE Band 5	824.7-848.3	25.0	-3.5	20	0.028	0.549
LTE Band 12	699.7-715.3	25.0	-3.5	20	0.028	0.466
LTE Band 25	1850.7-1914.3	25.0	0.6	20	0.072	1
LTE Band 26	814.7-848.3	25.0	-3.5	20	0.028	0.543

Note: The Max Power = Max tune up power

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