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 / Designation Number:	788550 / TW0003

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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^2)	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

$Pd = (Pout*G) / (4*pi*r^2)$
where
Pd = power density in mW/cm^2
Pout = 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^2)	Limit (mW/cm^2)
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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