RF Exposure Report

Report No.:	SA180504E08
FCC ID:	NKR-IMG2
Test Model:	IMG2
Received Date:	May 16, 2018
Test Date:	Aug. 05 ~ Aug. 06, 2018
Issued Date:	Aug. 10, 2018
Applicant:	Wistron NeWeb Corporation
Address:	20 Park Avenue II, Hsinchu Science Park,Hsinchu 308, Taiwan, R.O.C.
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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The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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Release Control Record

Issue No.	Description	Date Issued
SA180504E08	Original release.	Aug. 10, 2018

1 Certificate of Conformity

Product:	IMG2 LTE module
Brand:	Wistron Neweb Corporation
Test Model:	IMG2
Sample Status:	Engineering sample
Applicant:	Wistron NeWeb Corporation
Test Date:	Aug. 05 ~ Aug. 06, 2018
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1

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:** Aug. 10, 2018

Pettie Chen / Senior Specialist

Approved by : Bruce Chen , **Date:** Aug. 10, 2018

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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	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

$Pd = (Pout*G) / (4*pi*r^2)$
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.

2.4 Antenna Gain

Function	Frequency Band (MHz)	Antenna Gain (dBi)
LTE B2	1850.7~1909.3	1.56
LTE B4	1710.7~1754.3	1.62
LTE B5	824.7~848.3	3.2
LTE B13	779.5~784.5	1.66

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)
LTE B2	1850.7~1909.3	24.32	1.56	20	0.077	1
LTE B4	1710.7~1754.3	24.55	1.62	20	0.082	1
LTE B5	824.7~848.3	24.35	3.2	20	0.113	0.55
LTE B13	779.5~784.5	25.35	1.66	20	0.100	0.52

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