RF Exposure Report

Report No.: SA160825E02

FCC ID: NKR-JAW301

Test Model: WFB100S

Received Date: Aug. 25, 2016

Test Date: Sep. 19 , 2016

Issued Date: Oct. 05, 2016

Applicant: Wistron NeWeb Corp.

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 Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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Release Control Record

Issue No.	Description	Date Issued
SA160825E02	Original release.	Oct. 05, 2016

1 Certificate of Conformity

Product:	WiFi PSE adaptor
Brand:	AT&T
Test Model:	WFB100S
Sample Status:	ENGINEERING SAMPLE
Applicant:	Wistron NeWeb Corp.
Test Date:	Sep. 19 , 2016
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 EMC characteristics under the conditions specified in this report.

Prepared by : Nico Liu , **Date:** **Oct. 05, 2016**

Nico Liu / Specialist

Approved by : , **Date:** **Oct. 05, 2016**

May Chen / Manager

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**.

2.4 Antenna Gain

Ant. No.	Transmitter Circuit	Brand	Model	Antenna Net Gain(dBi)	Frequency range (MHz to MHz)	Antenna Type	Connecter Type	Cable Length
1	Chain (0)	NA	NA	3.49	2.4~2.4835	Loop	Murata	NA
2	Chain (1)	NA	NA	3.96	2.4~2.4835	Dipole	i-pex(MHF)	38mm

2.5 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	767.471	6.74	20	0.72076	1

NOTE: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.74dBi

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