

## RF Exposure Report

**Report No.:** SA150814C23

**FCC ID:** C3K1733

**Test Model:** 1733

**Received Date:** Aug. 14, 2015

**Test Date:** Nov. 03 ~ Nov. 06, 2015

**Issued Date:** Nov. 23, 2015

**Applicant:** Microsoft Corporation

**Address:** One Microsoft Way, Redmond WA 98052-6399, U.S.A

**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

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



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### Release Control Record

Issue No.	Description	Date Issued
SA150814C23	Original release	Nov. 23, 2015

## 1 Certificate of Conformity

**Product:** Wireless Display Adapter

**Brand:** Microsoft®

**Test Model:** 1733

**Sample Status:** Engineering sample

**Applicant:** Microsoft Corporation

**Test Date:** Nov. 03 ~ Nov. 06, 2015

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

KDB 447498 D03

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 EMC characteristics under the conditions specified in this report.

**Prepared by :**



**Date:**

Nov. 23, 2015

Pettie Chen / Senior Specialist

**Approved by :**



**Date:**

Nov. 23, 2015

Ken Liu / Senior 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 <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

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

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	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN: 2412-2462 MHz	23.43	3.43	20	0.097	1
WLAN: 5180-5240 MHz	15.13	2.25	20	0.011	1
WLAN: 5745-5825 MHz	15.02	2.25	20	0.011	1

\*The 2.4 and 5GHz cannot transmit simultaneously.

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