

## RF Exposure Report

**Report No.:** SA170418D09

**FCC ID:** E8HKT-1572

**Test Model:** KT-1572

**Received Date:** Apr. 18, 2017

**Test Date:** Apr. 24 ~ 27, 2017

**Issued Date:** Jun. 1, 2017

**Applicant:** Chicony Electronics Co., Ltd.

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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(R.O.C.)



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## Table of Contents

<b>Release Control Record</b> .....	<b>3</b>
<b>1 Certificate of Conformity</b> .....	<b>4</b>
<b>2 Evaluation Result</b> .....	<b>5</b>
<b>3 SAR Test Exclusion Thresholds</b> .....	<b>6</b>
<b>4 Conclusion</b> .....	<b>6</b>

### Release Control Record

Issue No.	Description	Date Issued
SA170418D09	Original release.	Jun. 1, 2017

## 1 Certificate of Conformity

**Product:** HP ZBOOK X2 KEYBOARD

**Brand:** HP

**Test Model:** KT-1572

**Sample Status:** Engineering sample

**Applicant:** Chicony Electronics Co., Ltd.

**Test Date:** Apr. 24 ~ 27, 2017

**Standards:** FCC Part 2 (Section 2.1093)

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 :**  , **Date:** Jun. 1, 2017  
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**Approved by :**  , **Date:** Jun. 1, 2017  
Rex Lai / Assistant Manager

## 2 Evaluation Result

Following FCC KDB 447498 D01 "General SAR test exclusion guidance"

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  
[[max. power of channel, including tune-up tolerance, mW]/(min. test separation distance, mm)]  $\cdot [\sqrt{f(\text{GHz})}]$   
 $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where
  - Ø  $f(\text{GHz})$  is the RF channel transmit frequency in GHz.
  - Ø Power and distance are rounded to the nearest mW and mm before calculation.
  - Ø The result is rounded to one decimal place for comparison. The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50mm)  $\cdot$  ( f(MHz)/150)] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot$  10] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

### 3 SAR Test Exclusion Thresholds

Maximum measured transmitter power:

Function	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE 2)</sup>	1-g SAR test exclusion thresholds	Result
BT	1.449	5	0.449	3	Pass
NFC	0.0002254869	5	0.0000698646	3	Pass

**NOTE:**

1. The antenna type is PCB Antenna with -11.73dBi gain.
2. Calculate SAR test exclusion thresholds from condition "1" formulas.
3. Max Power of NFC Module: 58.76 (dBuV/m) = -36.46879dBm = 0.0002254869mW

### 4 Conclusion

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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