

# **RF Exposure Report**

**Report No.:** SA190304D05

FCC ID: EMJMHSAP007M

Test Model: HSA-P007M

Received Date: Mar. 4, 2019

Test Date: Mar. 7 to 12, 2019

**Issued Date:** Mar. 19, 2019

**Applicant:** PRIMAX ELECTRONICS LTD.

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

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(R.O.C.)

FCC Registration /

**Designation Number:** 198487 / TW2021





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### **Release Control Record**

Issue No.	Description	Date Issued
SA190304D05	Original release.	Mar. 19, 2019



### 1 Certificate of Conformity

Product: Mouse

Brand: hp

Test Model: HSA-P007M

Sample Status: Engineering sample

Applicant: PRIMAX ELECTRONICS LTD.

**Test Date:** Mar. 7 to 12, 2019

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 RF characteristics under the conditions specified in this report.

Prepared by: 1/64/16 Charg Date: Mar 19 2019

Jessica Cheng / Senior Specialist

**Approved by :** , **Date:** Mar. 19, 2019

Rex Lai / Associate Technical 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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz.
- > Power and distance are rounded to the nearest mW and mm before calculation.
- ➤ The result is rounded to one decimal place for comparison The test exclusions are applicable only when the minimum test separation distance is ≤ 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.</p>
- 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)·( f(MHz)/150)] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 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(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 ½ for test separation distances ≤ 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 LE	0.7413	5	0.230	3	Pass	

**NOTE:** 1. The antenna type is Printed antenna with -0.15dBi gain.

2. Calculate SAR test exclusion thresholds from condition "1" formulas.

Function	Max. Radiated Power (dBuV/m)	Max. Radiated Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE 2)</sup>	1-g SAR test exclusion thresholds	Result
GFSK	97.92	1.858	5	0.576	3	Pass

NOTE: 1. The antenna type is Printed antenna with -0.15dBi gain.

2. Calculate SAR test exclusion thresholds from condition "1" formulas.

### 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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