

## RF Exposure Report

**Report No.:** SA180516D10

**FCC ID:** 2AAFMRGP0075

**Test Model:** RGP0075

**Received Date:** May 16, 2018

**Test Date:** May 22 ~ 24, 2018

**Issued Date:** Jun. 7, 2018

**Applicant:** Corsair Memory, Inc.

**Address:** 47100 Bayside Pkwy, Fremont, CA 94538, USA

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

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## Table of Contents

|                                       |   |
|---------------------------------------|---|
| Release Control Record .....          | 3 |
| 1 Certificate of Conformity .....     | 4 |
| 2 Evaluation Result .....             | 5 |
| 3 SAR Test Exclusion Thresholds ..... | 6 |
| 4 Conclusion .....                    | 6 |

### Release Control Record

| Issue No.   | Description       | Date Issued  |
|-------------|-------------------|--------------|
| SA180516D10 | Original release. | Jun. 7, 2018 |

## 1 Certificate of Conformity

**Product:** CORSAIR HARPOON RGB WIRELESS Gaming Mouse

**Brand:** Corsair

**Model:** RGP0075

**Sample Status:** Engineering sample

**Applicant:** Corsair Memory, Inc.

**Test Date:** May 22 ~ 24, 2018

**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 :** Annie Chang, **Date:** Jun. 7, 2018  
Annie Chang / Senior Specialist

**Approved by :** Rex Lai, **Date:** Jun. 7, 2018  
Rex Lai / Assistant 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  $\leq 50$  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
  - $f(\text{GHz})$  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  $\leq 50$  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 LE    | 1.081           | 5                                  | 0.335  | 3                                 | Pass   |

**NOTE:** 1. The antenna type is Chip antenna with 0.5dBi 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     | 96.20                        | 1.251                    | 5                                  | 0.388  | 3                                 | Pass   |

**NOTE:** 1. The antenna type is Chip antenna with 0.5dBi 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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