	BUREAU VERITAS
	RF Exposure Report
Report No.:	SA190123D06
FCC ID:	2AAFMRGP0085
Test Model:	RGP0085
Received Date:	Jan. 23, 2019
Test Date:	Jan. 29 ~ Feb. 15, 2019
Issued Date:	Feb. 21, 2019
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	Corsair Memory, Inc.
Address:	47100 Bayside Pkwy, Fremont, CA 94538, USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	
FCC Registration /	(R.O.C.)
Designation Number:	198487 / TW2021
	TAF
	BAC-MRA
	Testing Laboratory 2021
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unless specifically and expressly noted. provided to us. You have 60 days from	Our report includes all of the tests requested by you and the results thereof based upon the information that you date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, ing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time
shall constitute your unqualified acceptar mention, the uncertainty of measurement	Ing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time ince of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific thas been explicitly taken into account to declare the compliance or non-compliance to the specification. The report roduct certification, approval, or endorsement by TAF or any government agencies.



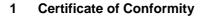
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## **Release Control Record**

Issue No.	Description	Date Issued
SA190123D06	Original release.	Feb. 21, 2019



Brand:CorsairModel:RGP0085Sample Status:Engineering sampleApplicant:Corsair Memory, Inc.Test Date:Jan. 29 ~ Feb. 15, 2019Standards:FCC Part 2 (Section 2.1093)KDB 447498 D01 General RF Exposure Guidance v06IEEE C95.1-1992	Product:	CORSAIR K57 RGB Wireless Gaming Keyboard			
Sample Status:Engineering sampleApplicant:Corsair Memory, Inc.Test Date:Jan. 29 ~ Feb. 15, 2019Standards:FCC Part 2 (Section 2.1093)KDB 447498 D01 General RF Exposure Guidance v06	Brand:	Corsair			
Applicant:Corsair Memory, Inc.Test Date:Jan. 29 ~ Feb. 15, 2019Standards:FCC Part 2 (Section 2.1093)KDB 447498 D01 General RF Exposure Guidance v06	Model:	RGP0085			
Test Date:Jan. 29 ~ Feb. 15, 2019Standards:FCC Part 2 (Section 2.1093)KDB 447498 D01 General RF Exposure Guidance v06	Sample Status:	Engineering sample			
<b>Standards:</b> FCC Part 2 (Section 2.1093) KDB 447498 D01 General RF Exposure Guidance v06	Applicant:	Corsair Memory, Inc.			
KDB 447498 D01 General RF Exposure Guidance v06	Test Date:	Jan. 29 ~ Feb. 15, 2019			
	Standards:	FCC Part 2 (Section 2.1093)			
IEEE C95.1-1992		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 :

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Date: Feb. 21, 2019

Approved by :

Kex. Lai

Date: Feb. 21, 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:

 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.
- 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

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
BTLE	1.371	5	0.425	3	Pass

Maximum measured transmitter power:

**NOTE:** 1. The antenna type is Printed antenna with 3.55dBi 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	97.21	1.578	5	0.489	3	Pass

**NOTE:** 1. The antenna type is Printed antenna with 3.55dBi 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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