

# **RF Exposure Report**

Report No.: SABDKG-WTW-P21080001

FCC ID: JNZYR0081

Test Model: YR0081

Received Date: 2021/8/1

Test Date: 2021/8/10

**Issued Date: 2021/9/9** 

**Applicant:** LOGITECH FAR EAST LTD.

Address: 7700 Gateway Boulevard Newark California United States

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

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FCC Registration / Designation Number:

723255 / TW2022





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# **Table of Contents**

Relea	Release Control Record				
1	Certificate of Conformity	4			
	Evaluation Result				
3	SAR Test Exclusion Thresholds	6			
4	Conclusion	6			



## **Release Control Record**

Issue No.	Description	Date Issued
SABDKG-WTW-P21080001	Original release.	2021/9/9



### 1 Certificate of Conformity

Product: Wireless keyboard

Brand: Logitech

Test Model: YR0081

Sample Status: Engineering sample

Applicant: LOGITECH FAR EAST LTD.

Test Date: 2021/8/10

Standards: FCC Part 2 (Section 2.1093)

KDB 447498 D01 General RF Exposure Guidance v06

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.

Phoenix Huang / Specialist

Approved by : , Date: 2021/9/9

Clark Lin / 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)]  $\cdot [\sqrt{f(GHz)}]$   $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  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  $\frac{1}{2}$  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

Operation Mode	Evaluation Frequency (MHz)	Max Avg. Power (dBm)	Max Avg. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value (mW/mm)	1-g SAR test exclusion thresholds (mW/mm)	Result
BT-LE	2402-2480	3.51	2.244	5	0.707	3	Pass
logi bolt	2402-2480	3.51	2.244	5	0.707	3	Pass

#### Notes:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. Calculate SAR test exclusion thresholds from condition 1) formulas.

#### 4 Conclusion

The device of BT-LE and logi bolt technology can't transmit simultaneously. Since average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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