

RF Exposure Report

Report No.: SA180115E03

FCC ID: JNZYR0067

Test Model: Y-R0067

Received Date: Jan. 15, 2018

Test Date: Jan. 16, 2018

Issued Date: Jan. 26, 2018

Applicant: LOGITECH FAR EAST LTD.

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

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Release Control Record

Issue No.	Description	Date Issued
SA180115E03	Original release.	Jan. 26, 2018

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1 Certificate of Conformity

Product: Wireless Keyboard

Brand: Logitech

Test Model: Y-R0067

Sample Status: ENGINEERING SAMPLE

Applicant: LOGITECH FAR EAST LTD.

Test Date: Jan. 16, 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 EMC characteristics under the conditions specified in this report.

Prepared by: ______, Date: _____, Jan. 26, 2018

Claire Kuan / Specialist

Approved by : , **Date:** Jan. 26, 2018

May Chen / 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 ≤ 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 $\frac{1}{2}$ 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

GFSK Avg. Power Table

Channel	Frequency (MHz)	Avg. Power		
		(mW)	(dBm)	
1	2405	1.315	1.19	
8	2444	1.279	1.07	
12	2474	1.18	0.72	

For GFSK SAR Test Exclusion Thresholds

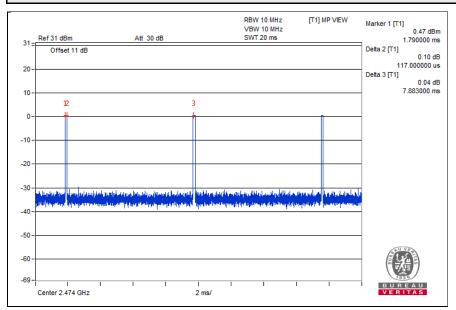
Frequency (MHz)		v IMay Ava Paweri	*Max Time Avg. Power (dBm)	Max Time Avg. Power (mW)	SAR test exclusion calculation value ^(NOTE 2)	1-g SAR test exclusion thresholds	Result
2	2405 ~ 2474	1.19	-17.10	0.019	0.00589	3	Pass

NOTE: 1. The Minimum separation distance is 5 mm.

- 2. Calculate SAR test exclusion thresholds from section 2 condition "1" formulas.
- 3. *Time Avg. Power=Avg. Power+Duty factor

GFSK Duty Cycle of Normal Signal

an one but, by one or mornian origin			1		
Duty Cycle	Tx on (ms)	Tx total (ms)	Duty Factor (dB)		
, ,	0.117	7.883	-18.29		
Duty Factor =10 * log(Tx on / Tx total)					





4 Conclusion	
Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation of required.	on is
END	

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