

# **RF Exposure Report**

Report No.: SA190417E04

FCC ID: JNZB00034

Test Model: B00034

Received Date: Apr. 17, 2019

Test Date: Apr. 24 to 30, 2019

**Issued Date:** May. 08, 2019

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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FCC Registration / Designation Number:

723255 / TW2022

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## **Release Control Record**

| Issue No.   | Description       | Date Issued   |
|-------------|-------------------|---------------|
| SA190417E04 | Original release. | May. 08, 2019 |



### 1 Certificate of Conformity

Product: Wireless Headphones & Charger Case

Brand: Jaybird

Test Model: B00034

Sample Status: ENGINEERING SAMPLE

Applicant: LOGITECH FAR EAST LTD.

Test Date: Apr. 24 to 30, 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 EMC characteristics under the conditions specified in this report.

| Prepared by : |            | <u> </u>   | Date: | May. 08, 2019 |
|---------------|------------|------------|-------|---------------|
|               | Wendy Wu / | Specialist |       |               |
|               | ~/         |            |       |               |
| Approved by : |            | ,          | Date: | May. 08, 2019 |

Wandy Wu

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  $\le 7.5$  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  $\frac{1}{2}$  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

**BT-EDR Avg. Power Table** 

| = : == : : : · · · · · · · · · · · · · · |                 |            |       |  |  |
|--|-----------------|------------|-------|--|--|
| Channal                                  | Frequency (MHz) | Avg. Power |       |  |  |
| Channel                                  |                 | (mW)       | (dBm) |  |  |
| 0  | 2402            | 7.43       | 8.71  |  |  |
| 39                                       | 2441            | 7.656      | 8.84  |  |  |
| 78                                       | 2480            | 5.649      | 7.52  |  |  |

### For BT-EDR SAR Test Exclusion Thresholds

| Frequency<br>(GHz) | Max Avg. Power<br>(dBm) | Max Avg.<br>Power (mW) | Min. test<br>separation<br>distance<br>(mm) | SAR test<br>exclusion<br>calculation<br>value <sup>(NOTE 1)</sup> | 1-g SAR test<br>exclusion<br>thresholds | Result |
|--------------------|-------------------------|------------------------|---|---|---|--------|
| 2.4~2.4835         | 8.84                    | 7.656                  | 5   | 2.411   | 3                                       | Pass   |

**Note:** 1. Calculate SAR test exclusion thresholds from condition "1" formulas.

BT 5.0 1M Avg. Power Table

| Channel | Fraguency (MHz) | Avg. Power |       |  |
|---------|-----------------|------------|-------|--|
| Chame   | Frequency (MHz) | (mW)       | (dBm) |  |
| 0       | 2402            | 7.311      | 8.64  |  |
| 19      | 2440            | 7.568      | 8.79  |  |
| 39      | 2480            | 5.546      | 7.44  |  |

BT 5.0 2M Avg. Power Table

| Channel | Fraguenov (MHz) | Avg. Power |       |  |
|---------|-----------------|------------|-------|--|
| Chamie  | Frequency (MHz) | (mW)       | (dBm) |  |
| 1       | 2404            | 7.328      | 8.65  |  |
| 19      | 2440            | 7.638      | 8.83  |  |
| 38      | 2478            | 5.754      | 7.60  |  |

## For BT 5.0 SAR Test Exclusion Thresholds

| Frequency<br>(GHz) | Max Avg. Power<br>(dBm) | Max Avg.<br>Power<br>(mW) | Min. test<br>separation<br>distance<br>(mm) | SAR test<br>exclusion<br>calculation<br>value <sup>(NOTE 1)</sup> | 1-g SAR test<br>exclusion<br>thresholds | Result |
|--------------------|-------------------------|---------------------------|---|---|---|--------|
| 2.4~2.4835         | 8.83                    | 7.638                     | 5   | 2.386   | 3                                       | Pass   |

Note: 1. Calculate SAR test exclusion thresholds from condition "1" formulas.

### 4 Conclusion

The device of BT-EDR and BT 5.0 modulation type can't transmit simultaneously. Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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