

RF EXPOSURE REPORT



FCC Applicant: Peloton Interactive Inc.
125 W 25th Street, 11 FL, New York, NY, 10001, USA

Product Name: Peloton Heart Rate Band.

Brand Name: Peloton

Model No.: HR02

Model Difference: N/A

Report Number: ER/2021/40060

FCC ID 2AA3N-HR02

IC: 21377-HR02

Issue Date: Nov.16,2021

Date of EUT Received: Apr.16 ,2021

Approved By _____

John Yeh
John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093 and RSS-102.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/40060	Rev.00	Original.	Nov.16,2021	Viola Su

Note:

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Peloton Heart Rate Band.
Brand Name:	Peloton
Model No.:	HR02
Model Difference:	N/A
Hardware Version:	REV 1.03A
Firmware Version:	1.22
EUT Series No.:	90-EP61M0140
Power Supply:	3.85 Vdc from Rechargeable Lithium-Ion Polymer Battery

1.2 Antenna Information:

1.2.1 BLE

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	Carrera	HR02	2402-2480	-4.6	V

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2 FCC STANDARD APPLICABLE

2.1 FCC Standard Applicable:

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g Head & Body SAR and ≤ 7.5 for 10-g extremity Hand 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 values 3.0 and 7.5 are referred to as numeric thresholds in **step b)** below

Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

- 1) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\}$ mW, for 100 MHz to 1500 MHz
- 2) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ mW, for > 1500 MHz and ≤ 6 GHz

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2.2 Measurement Result:

BLE1M

Step a:					
This is a portable device and the max. output power including tune-up tolerance is 6.839 (mW), lower than the threshold given and derived as formula given above, where					
$=6.839(\text{mW})/5(\text{mm})^*\sqrt{2.402(\text{GHz})} = 2.1 < 7.5$					
Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 7.5 for 10-g extremity SAR
2402	8.35	6.839	5	2.1	TRUE

BLE2M

Step a:					
This is a portable device and the max. output power including tune-up tolerance is 6.653 (mW), lower than the threshold given and derived as formula given above, where					
$=6.653(\text{mW})/5(\text{mm})^*\sqrt{2.48(\text{GHz})} = 2.1 < 7.5$					
Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 7.5 for 10-g extremity SAR
2480	8.23	6.653	5	2.1	TRUE

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2.3 ISED Standard Applicable

As per RSS-102 Issue 5 Amendment 1 Feb. 2, 2021, any transmitter shall be compliant with applicable RF exposure prior to being market. In §2.5.1, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1.

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5.

2.4 Measurement Result:

BLE1M

Freq. (MHz)	Max. output power including tune-up tolerance (dBm)	Peak Gain (dBi)	Max Conducted Output Power (mW)	e.i.r.p (mW)	Exemption Limit (mW)
2402	8.35	-4.6	6.839	2.371	10

Measurement Result

The Max. Conducted Output Power is 6.839mW when the device operates at the separation distance below or equals to 5mm. It is below the SAR exemption limit 10mW.

BLE2M

Freq. (MHz)	Max. output power including tune-up tolerance (dBm)	Peak Gain (dBi)	Max Conducted Output Power (mW)	e.i.r.p (mW)	Exemption Limit (mW)
2480	8.23	-4.6	6.653	2.307	10

Measurement Result

The Max. Conducted Output Power is 6.653mW when the device operates at the separation distance below or equals to 5mm. It is below the SAR exemption limit 10mW.

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