

RF Exposure Report

Report No.: SABCIB-WTW-P21090618

FCC ID: 2AA3N-TTR02

Test Model: PLTN-TTR01-2

Received Date: Sep. 15, 2021

Test Date: Sep. 24 ~ Oct. 20, 2021

Issued Date: Nov. 01, 2021

Applicant: Peloton Interactive Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SABCIB-WTW-P21090618	Original release	Nov. 01, 2021

1 Certificate of Conformity

Product: Peloton Tablet

Brand: PELOTON

Test Model: PLTN-TTR01-2

Sample Status: Engineering sample

Applicant: Peloton Interactive Inc.

Test Date: Sep. 24 ~ Oct. 20, 2021

Standards: FCC Part 2 (Section 2.1091)

References Test KDB 447498 D01 General RF Exposure Guidance v06

Guidance: IEEE C95.3 -2002

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 :  , **Date:** Nov. 01, 2021
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Approved by :  , **Date:** Nov. 01, 2021
Bruce Chen / Senior Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

For WLAN and BT

Frequency Band (MHz)	Max. AVPower (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN					
2412-2462	18.60	3.06	20	0.029	1
5180-5240	17.28	4.51	20	0.030	1
5260-5320	17.37	4.51	20	0.031	1
5500-5700	17.17	4.51	20	0.029	1
5745-5825	17.94	4.51	20	0.035	1
BT					
2402-2480	8.02	-0.19	20	0.001	1
BT LE					
2402-2480	3.77	-0.19	20	0.0005	1

Note:

2.4GHz: Directional Gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2/2]$ =3.06dBi

5GHz: Directional Gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2/2]$ =4.51dBi

For ANT+

Frequency Band (MHz)	Electric field (dBuV/m) @3m (AV)	Electric field (dBuV/m) @0.2m	EIRP Power (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402-2480	74.8	98.32	-20.431	0.000002	1

Note: $74.8 + 20\log(3/0.2) = 98.32\text{dBuV/m}$

For NFC

Mode	Field Strength (dBuV/m) @30m	Field Strength (dBuV/m) @3m	Max. Power EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
NFC	33.07	73.07	-22.16	20	0.00000121	0.978

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- Max Power (dBm) = Field Strength of Fundamental (dBuV/m@3m) – 95.23,
Max Power (mW) = $10^{(\text{Max power (dBm)}/10)}$
- The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Conclusion:

The formula of calculated the MPE is:

$$\text{CPD1} / \text{LPD1} + \text{CPD2} / \text{LPD2} + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$\text{WLAN 2.4G} + \text{WLAN 5G} + \text{NFC} = 0.029 / 1 + 0.035 / 1 + 0.00000121 / 0.978 = 0.064$$

$$\text{WLAN 5G} + \text{BT} + \text{NFC} = 0.035 / 1 + 0.001 / 1 + 0.00000121 / 0.978 = 0.036$$

$$\text{WLAN 5G} + \text{ANT+} + \text{NFC} = 0.035 / 1 + 0.000002 / 1 + 0.00000121 / 0.978 = 0.0350$$

Therefore the maximum calculations of above situations are less than the “1” limit.

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