

PELOTON INTERACTIVE, INC.

TEST REPORT

SCOPE OF WORK:

47 CFR FCC Part 15.249 – Radio Spectrum report

Model:

PLTN-TC1VS-2

REPORT NUMBER

210500076THC-001

ISSUE DATE

May 31, 2021

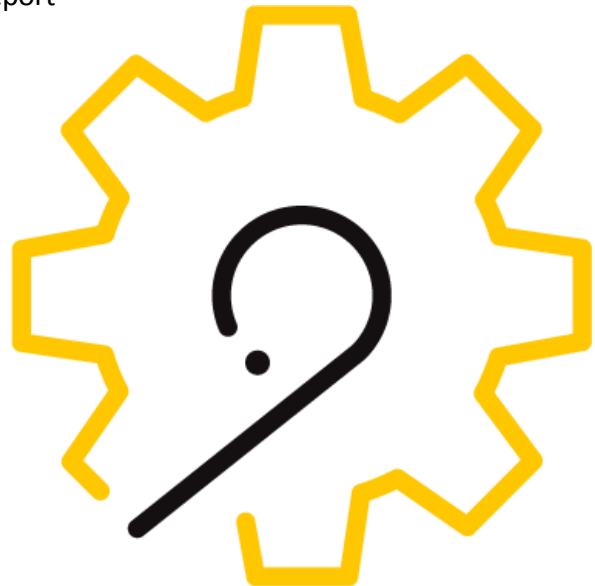
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10

DOCUMENT CONTROL NUMBER

GFT-OP-10h (28-Nov-2018)

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FCC TEST REPORT

(Spot Check)

Applicant:	PELOTON INTERACTIVE, INC. 125 West 25th street, FL11, New York, NY 10001, USA
Product:	Peloton Tread Tablet
Model No.:	PLTN-TC1VS-2
FCC ID:	2AA3N- TC1VS2
Test Method/ Standard:	47 CFR FCC Part 15.249 & ANSI C63.10 2013
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan



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TEST REPORT

Revision History

Report No.	Issue Date	Revision Summary
180400245TWN-001	Jul. 09, 2018	Original report (FCC ID: 2AA3N- TC1VS)
210500076THC-001	May 31, 2021	The NFC module was removed from the EUT. Based on engineering judgement, spot testing was deemed necessary.

Table of Contents

Summary of Test Data	4
1. General Information	5
1.1 Identification of the EUT	5
1.2 Antenna description	5
1.3 Operation mode	6
1.4 Peripherals equipment	6
2. Radiated emission test	7
2.1 Test setup & procedure	7
2.2 Fundamental and harmonics emission limits.....	8
2.3 Measurement results: Fundamental	8
Appendix A: Test equipment list.....	9
Appendix B: Measurement Uncertainty	10

Summary of Test Data

Test Requirement	Applicable Rule	Result
Radiated Emission test	15.249	Pass

Note: Please note that the test results with statement of conformity, the decision rules which are based on: Safety Testing: the specification, standard or IEC Guide 115.

Other Testing: the specification, standard and not taking into account the measurement uncertainty.

1. General Information

1.1 Identification of the EUT

Product:	Peloton Tread Tablet
Model No.:	PLTN-TC1VS-2
Operating Frequency:	2402MHz-2480MHz
Channel Number:	2402+2k MHz, k = 0~39
Rated Power:	DC 24V from adapter
Power Cord:	N/A
Sample receiving date:	2021/05/05
Sample condition:	Workable
Test Date(s):	2021/05/14

1.2 Antenna description

Antenna Gain : 2.3 dBi

Antenna Type : PIFA Antenna

Connector Type : I-PEX

1.3 Operation mode

Test Procedure : The EUT used "AMPAK RFTestTool.apk " to select different frequency and modulation.

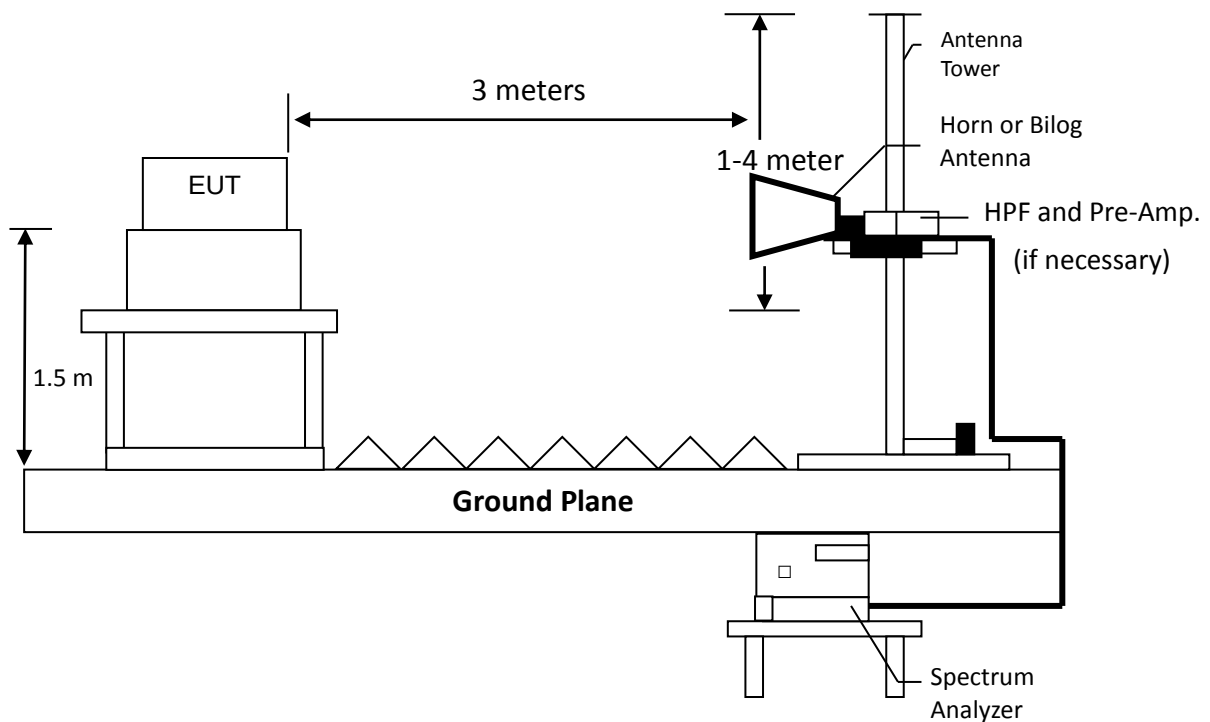
Operating Frequency:2402~2480MHz / Channel number:2402+k , k=0~39

1.4 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Data cable
Adapter	EDAC	EA10681V-240	N/A	N/A

2. Radiated emission test

2.1 Test setup & procedure



Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1 MHz RBW/ 3 MHz VBW) recorded also on the report.

The EUT for testing is arranged on a turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

2.2 Fundamental and harmonics emission limits

Frequency (MHz)	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m@3m)	(dBuV/m@3m)	(uV/m@3m)	(dBuV/m@3m)
2400-2483.5	50	94	500	54

2.3 Measurement results: Fundamental

Temperature (°C) :	27
Relative Humidity (%) :	57
Test date :	2021/5/14

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
BLE Channel 0	2402	PK	V	34.86	65.67	100.53	114.00	-13.47
		AV	V	34.86	39.83	74.69	94.00	-19.31
		PK	H	34.86	68.25	103.11	114.00	-10.89
		AV	H	34.86	40.69	75.55	94.00	-18.45

Remark: Correction Factor = Antenna Factor + Cable Loss

Appendix A: Test equipment list

Test Equipment/ Test site	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
EMI Test Receiver	Rohde & Schwarz	ESR7	101822	2020/08/18	2021/08/17
Signal Analyzer	Agilent	N9030A	MY51380492	2020/08/17	2021/08/16
Horn Antenna	SHWARZBECK	BBHA 9120 D	9120D-456	2021/01/11	2022/01/10
Pre-Amplifier	EMC Co.	EMC12635SE	980205	2021/01/13	2022/01/12
966-2(A) Cable	SUHNER	SUCOLEX 104	295105/4	2021/03/08	2022/03/07
966-2(B) Cable	SUHNER	SUCOFLEX 104P	CB0005	2021/03/08	2022/03/07
966-2_3m Semi-Anechoic Chamber	966_2	CEM-966_2	N/A	2021/01/15	2022/01/14
Test software	Audix	e3	V9	NCR	NCR

Note: No Calibration Required (NCR).

Appendix B: Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	5.17 dB