

# RF EXPOSURE REPORT

OF

**Applicant:** HP INC.  
1501 PAGE MILL ROAD PALO ALTO, CA 94304, USA

**Product Name:** Notebook Computer

**Brand Name:** HP

**Model No.:** TPN-H101

**Model Difference:** N/A

**Report Number:** E2/2021/10094

**FCC ID** B94-TNH101QN

**FCC Rule Part** Part 2.1091  
KDB 680106 D01 RF Exposure Wireless Charging App v03

**Issue Date:** April 7, 2021

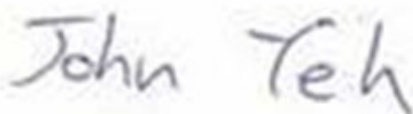
**Date of Test:** February 5, 2021 - March 19, 2021

**Date of EUT Received:** February 5, 2021

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation in this report is in compliance with FCC Rules Part 2.

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

**Approved By:**

*John Yeh / Asst. Manager*



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Revision History				
Report Number	Revision	Description	Issue Date	Revised By
E2/2021/10094	Rev.00	Original.	April 7, 2021	Susan Lin

**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 General Information

Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	TPN-H101
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
EUT Series No.:	C1L050004L
Power Supply:	7.7Vdc from Rechargeable Li-Polymer Battery or 5 / 9 / 12 / 15Vdc from AC/DC Adapter

### 1.2 Test Facility

Laboratory	Test Site Address		FCC Designation number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	<input type="checkbox"/>	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	TW0027
	<input checked="" type="checkbox"/>	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	TW0028

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## 2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 Standard Applicable

According to KDB 680106 D01 RF Exposure Wireless Charging App v03

RF exposure potential to users and bystanders is expected to vary according to factors inherent to the design of individual systems, which generally requires different evaluation considerations to show compliance.

When exposure concerns arise; for example, due to evolving products and operations, RF exposure evaluation may be requested under the provisions of Sections 1.1307 (c) and (d) to determine compliance. Because of significant variations in design and operating characteristics, the procedures required to evaluate RF exposure compliance for wireless power transfer are considered according to the exposure potentials of individual implementations

The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

### 2.2 Limits for Maximum Permissive Exposure (MPE)

Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz \* = Plane-wave equivalent power density

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**2.3 The Worst Charging Condition:**

Ancillary Equipment	Charging Condition	Verdict
Load	Full Loading	PASS
Load	99% Loading	PASS
Load	50% Loading	PASS
Load	1% Loading	PASS

Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current.

**2.4 Measurement Procedure:**

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with proper distances measured from the center of the probe(s) to the edge of the device as per KDB 680106 D01.

**2.5 Measurement Equipment Used:**

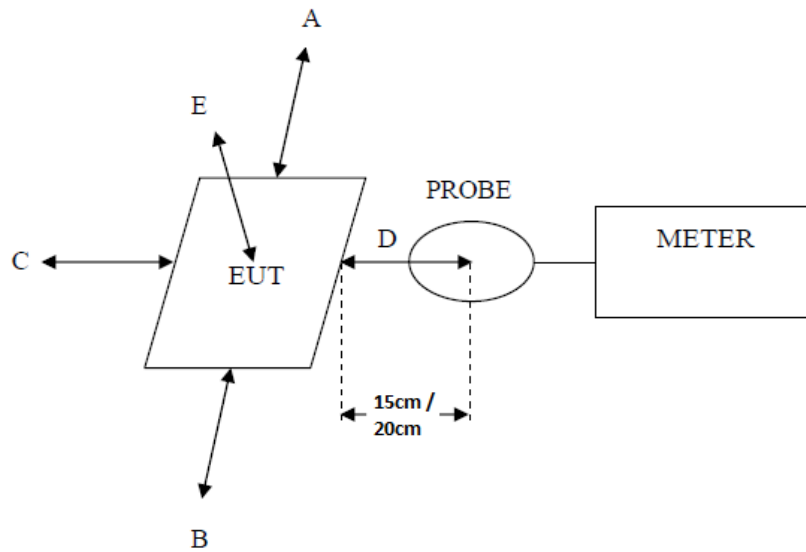
Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/25/2020	06/24/2021
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/08/2020	07/07/2021
DC Block	PASTERNAK	PE8210	RF156	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/19/2020	11/18/2021
BROADBAND FIELD METER	NARDA	NBM-550	F-0375	08/11/2020	08/10/2021

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2.6 Test Set-up:



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## 2.7 Maximum Permissible Exposure (MPE) Evaluation:

### Full Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	10 cm	0.69	0.0021
Back	10 cm	0.36	0.0012
Left	10 cm	2.42	0.0060
Right	10 cm	0.34	0.0009
Top	10 cm	0.55	0.0014
Bottom	10 cm	0.53	0.0014
Limit		60.77	0.162

### 99% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	10 cm	0.69	0.0026
Back	10 cm	0.35	0.0012
Left	10 cm	2.40	0.0061
Right	10 cm	0.34	0.0009
Top	10 cm	0.56	0.0009
Bottom	10 cm	0.54	0.0014
Limit		60.77	0.162

### 90% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	10 cm	0.70	0.0018
Back	10 cm	0.36	0.0009
Left	10 cm	2.39	0.0062
Right	10 cm	0.33	0.0009
Top	10 cm	0.56	0.0014
Bottom	10 cm	0.56	0.0011
Limit		60.77	0.162

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50% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	10 cm	0.70	0.0023
Back	10 cm	0.35	0.0011
Left	10 cm	2.42	0.0057
Right	10 cm	0.37	0.0004
Top	10 cm	0.54	0.0017
Bottom	10 cm	0.51	0.0017
Limit		60.77	0.162

10% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	10 cm	0.67	0.0021
Back	10 cm	0.35	0.0011
Left	10 cm	2.44	0.0055
Right	10 cm	0.31	0.0010
Top	10 cm	0.54	0.0009
Bottom	10 cm	0.53	0.0016
Limit		60.77	0.162

1% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	10 cm	0.67	0.0026
Back	10 cm	0.36	0.0008
Left	10 cm	2.44	0.0057
Right	10 cm	0.34	0.0005
Top	10 cm	0.53	0.0012
Bottom	10 cm	0.50	0.0018
Limit		60.77	0.162

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Full Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.58	0.0022
Back	15 cm	0.28	0.0006
Left	15 cm	2.31	0.0055
Right	15 cm	0.23	0.0005
Top	15 cm	0.42	0.0013
Bottom	15 cm	0.42	0.0010
Limit		60.77	0.162

99% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.62	0.0025
Back	15 cm	0.23	0.0008
Left	15 cm	2.34	0.0062
Right	15 cm	0.25	0.0010
Top	15 cm	0.42	0.0018
Bottom	15 cm	0.45	0.0009
Limit		60.77	0.162

90% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.57	0.0022
Back	15 cm	0.24	0.0013
Left	15 cm	2.36	0.0057
Right	15 cm	0.27	0.0009
Top	15 cm	0.42	0.0012
Bottom	15 cm	0.42	0.0012
Limit		60.77	0.162

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50% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.60	0.0017
Back	15 cm	0.26	0.0007
Left	15 cm	2.34	0.0062
Right	15 cm	0.23	0.0007
Top	15 cm	0.46	0.0013
Bottom	15 cm	0.40	0.0008
Limit		60.77	0.162

10% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.58	0.0025
Back	15 cm	0.23	0.0016
Left	15 cm	2.32	0.0058
Right	15 cm	0.25	0.0008
Top	15 cm	0.41	0.0010
Bottom	15 cm	0.43	0.0016
Limit		60.77	0.162

1% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.56	0.0025
Back	15 cm	0.30	0.0011
Left	15 cm	2.29	0.0060
Right	15 cm	0.22	0.0006
Top	15 cm	0.44	0.0016
Bottom	15 cm	0.43	0.0015
Limit		60.77	0.162

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Full Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.49	0.0017
Back	20 cm	0.19	0.0001
Left	20 cm	2.22	0.0050
Right	20 cm	0.14	0.0000
Top	20 cm	0.33	0.0008
Bottom	20 cm	0.33	0.0005
Limit		60.77	0.162

99% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.48	0.0016
Back	20 cm	0.18	0.0005
Left	20 cm	2.21	0.0048
Right	20 cm	0.13	0.0002
Top	20 cm	0.32	0.0010
Bottom	20 cm	0.31	0.0007
Limit		60.77	0.162

90% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.50	0.0021
Back	20 cm	0.17	0.0001
Left	20 cm	2.21	0.0054
Right	20 cm	0.12	0.0001
Top	20 cm	0.31	0.0010
Bottom	20 cm	0.35	0.0007
Limit		60.77	0.162

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## 50% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.53	0.0012
Back	20 cm	0.22	0.0003
Left	20 cm	2.22	0.0048
Right	20 cm	0.15	0.0002
Top	20 cm	0.30	0.0009
Bottom	20 cm	0.35	0.0009
Limit		60.77	0.162

## 10% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.50	0.0018
Back	20 cm	0.15	0.0003
Left	20 cm	2.21	0.0053
Right	20 cm	0.11	0.0001
Top	20 cm	0.37	0.0003
Bottom	20 cm	0.31	0.0007
Limit		60.77	0.162

## 1% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.47	0.0012
Back	20 cm	0.20	0.0004
Left	20 cm	2.23	0.0055
Right	20 cm	0.12	0.0003
Top	20 cm	0.31	0.0012
Bottom	20 cm	0.30	0.0001
Limit		60.77	0.162

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