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INVENTEC CORPORATION Applicant:

No.66, Hougang street, ShihLin District, Taipei City, Taiwan.

**Product Name:** All-In-One PC

HP **Brand Name:** 

Model No.: TPC-I051-32

**Model Difference:** N/A

ER/2021/80017 **Report Number:** 

DGI-TPC-I051-3201 FCC ID

September 15, 2021 **Issue Date:** 

August 12, 2021 Date of Test:

Date of EUT Received: August 4, 2021

Approved By

# We hereby certify that:

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091.

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

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Revision History				
Report Number	Revision	Description	Issue Date	Revised By
ER/2021/80017	00	Original	September 15, 2021	Yuri Tsai

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# **DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)**

#### 1.1 **Product Description**

Product Name:	All-In-One PC
Brand Name:	HP
Model No.:	TPC-I051-32
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	0001760BG0
Power Supply:	12.58Vdc from Switching Power Supply

#### 1.2 **Test Facility**

Laboratory	Test Site Address		FCC Designation number
SGS Taiwan Ltd. Central RF Lab.	$\boxtimes$	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	TW0027
(TAF code 3702)		No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	TW0028

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# 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.

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

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

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# 2.3 The Worst Charging Condition:

Ancillary Equipment	<b>Charging Condition</b>	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.

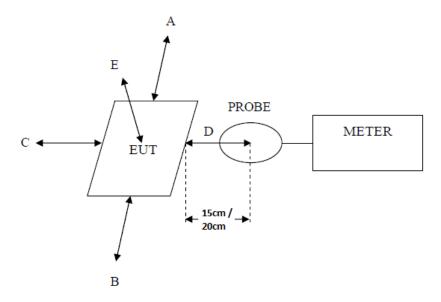
### 2.4 Measurement Procedure:

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:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Probe-Analyzer	Narda	EHP 200AC	180ZX00635	01/26/2021	01/25/2022

## 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	0.42	0.2512	
Back	10 cm	0.33	0.2013	
Left	10 cm	0.39	0.2667	
Right	10 cm	0.36	0.2013	
Тор	10 cm	0.42	0.2667	
Bottom	10 cm	0.37	0.1784	
Limit		614	0.815	

99% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	0.50	0.2638	
Back	10 cm	0.44	0.1919	
Left	10 cm	0.36	0.2559	
Right	10 cm	0.39	0.1980	
Тор	10 cm	0.31	0.1980	
Bottom	10 cm	0.40	0.2512	
Limit		614	0.815	

90% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	0.40	0.2505	
Back	10 cm	0.38	0.1751	
Left	10 cm	0.40	0.1455	
Right	10 cm	0.39	0.1585	
Тор	10 cm	0.44	0.1706	
Bottom	10 cm	0.33	0.2390	
Limit		614	0.815	

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50% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	0.43	0.2552	
Back	10 cm	0.36	0.1942	
Left	10 cm	0.44	0.2568	
Right	10 cm	0.34	0.2455	
Тор	10 cm	0.42	0.1781	
Bottom	10 cm	0.43	0.2552	
Limit		614	0.815	

10% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	0.42	0.2559	
Back	10 cm	0.31	0.2190	
Left	10 cm	0.43	0.2285	
Right	10 cm	0.45	0.2579	
Тор	10 cm	0.45	0.2166	
Bottom	10 cm	0.32	0.2166	
Limit		614	0.815	

1% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	0.41	0.2579	
Back	10 cm	0.43	0.1887	
Left	10 cm	0.48	0.2461	
Right	10 cm	0.39	0.2285	
Тор	10 cm	0.40	0.2547	
Bottom	10 cm	0.50	0.2224	
Limit		614	0.815	

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Full Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	15 cm	0.25	0.1406	
Back	15 cm	0.38	0.2505	
Left	15 cm	0.32	0.1538	
Right	15 cm	0.33	0.1503	
Тор	15 cm	0.39	0.2461	
Bottom	15 cm	0.34	0.2468	
Limit		614	0.815	

99% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	15 cm	0.38	0.2468	
Back	15 cm	0.35	0.1651	
Left	15 cm	0.30	0.1419	
Right	15 cm	0.34	0.1540	
Тор	15 cm	0.38	0.2512	
Bottom	15 cm	0.21	0.1208	
Limit		614	0.815	

90% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.33	0.2075
Back	15 cm	0.31	0.2586
Left	15 cm	0.29	0.2123
Right	15 cm	0.28	0.1688
Тор	15 cm	0.38	0.2461
Bottom	15 cm	0.40	0.1503
Limit		614	0.815

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50% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	15 cm	0.38	0.2579	
Back	15 cm	0.27	0.1485	
Left	15 cm	0.29	0.1937	
Right	15 cm	0.34	0.1419	
Тор	15 cm	0.27	0.2446	
Bottom	15 cm	0.37	0.2503	
Limit	•	614	0.815	

10% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	15 cm	0.28	0.2009	
Back	15 cm	0.37	0.1384	
Left	15 cm	0.34	0.1384	
Right	15 cm	0.33	0.1569	
Тор	15 cm	0.28	0.1672	
Bottom	15 cm	0.39	0.2667	
Limit		614	0.815	

1% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	15 cm	0.30	0.1635	
Back	15 cm	0.31	0.1700	
Left	15 cm	0.25	0.1275	
Right	15 cm	0.30	0.1275	
Тор	15 cm	0.37	0.2416	
Bottom	15 cm	0.34	0.1851	
Limit	•	614	0.815	

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Full Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	20 cm	0.30	0.2019	
Back	20 cm	0.38	0.2505	
Left	20 cm	0.33	0.2019	
Right	20 cm	0.33	0.1739	
Тор	20 cm	0.24	0.2559	
Bottom	20 cm	0.39	0.2559	
Limit		614	0.815	

99% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.35	0.1851
Back	20 cm	0.33	0.1953
Left	20 cm	0.30	0.1700
Right	20 cm	0.31	0.1764
Тор	20 cm	0.32	0.1851
Bottom	20 cm	0.32	0.1726
Limit		614	0.815

90% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	20 cm	0.36	0.1645	
Back	20 cm	0.33	0.1791	
Left	20 cm	0.33	0.1680	
Right	20 cm	0.31	0.1624	
Тор	20 cm	0.32	0.1523	
Bottom	20 cm	0.34	0.1319	
Limit		614	0.815	

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50% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	20 cm	0.36	0.1254	
Back	20 cm	0.31	0.1254	
Left	20 cm	0.39	0.2667	
Right	20 cm	0.34	0.1887	
Тор	20 cm	0.29	0.1781	
Bottom	20 cm	0.29	0.1368	
Limit	•	614	0.815	

10% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	20 cm	0.31	0.1319	
Back	20 cm	0.28	0.2547	
Left	20 cm	0.36	0.2128	
Right	20 cm	0.25	0.1937	
Тор	20 cm	0.21	0.1690	
Bottom	20 cm	0.31	0.1569	
Limit		614	0.815	

1% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	20 cm	0.32	0.1813	
Back	20 cm	0.30	0.2468	
Left	20 cm	0.32	0.1847	
Right	20 cm	0.31	0.1368	
Тор	20 cm	0.34	0.1884	
Bottom	20 cm	0.30	0.1779	
Limit	•	614	0.815	

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