



# Human Exposure Report FCC ID: RWO-RC21019901

**Project No.** : 2204E012

**Equipment**: Wireless Charging Dock

Brand Name

RAZER,

**Test Model** : RC21-019901

Series Model : RC21-019901XX-XXXX(X can be 0-9 or A-Z)

**Applicant**: Razer Inc.

Address : 9 Pasteur, Suite 100, Irvine, CA92618, USA

Manufacturer : Razer (Asia-Pacific) Pte.,Ltd.

Address : 1 one-north Crescent, #02-01 Singapore 138538

Factory : RAZER TECHNOLOGY AND DEVELOPMENT (SHENZHEN) CO., LTD

Address : East Wing, 3rd Floor, Block 2, Phase 1 of Vision Shenzhen Business
Park Keji South Road, Hi-Tech Industrial Park, Shenzhen 518057, China

Date of Receipt : Apr. 14, 2022

**Date of Test** : Apr. 15, 2022 ~ Apr. 29, 2022

**Issued Date** : Jul. 13, 2022

Report Version : R00

**Test Sample**: Sample No.: DG2022041493

Standard(s) : 47 CFR PART 1, Subpart I, Section 1.1310

KDB680106 D01 RF Exposure Wireless Charging Apps v03

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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lac-MRA



TESTING CERT #5123.02

### BTL Inc.

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# **REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2204E012	R00	Original Report	Jul. 13, 2022	Valid



### 1. GENERAL INFORMATION

# 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

# 2. TEST RESULTS

# 2.1 LIMITS

For 47 CFR PART 1, Subpart I, Section 1.1310:

of 47 CFK FART 1, Subpart 1, Section 1.1310.						
Frequency range	Electric field	Magnetic field	Power density	Averaging time		
(MHz)	strength (V/m)	strength (A/m) (m/W/cm²)		(minutes)		
(A) Limits for Occupational / Controlled Exposures						
0.3-3.0	0.3-3.0 614 1.63 *(100)		*(100)	6		
3.0-30	1842/f	4.89/f	*(900/f²)	6		
30-300	61.4	0.163	1.0	6		
300-1500	/ /		f/300	6		
1500-100000 /		/ 5		6		
(B) Limits for General Population / Uncontrolled Exposures						
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	*(180/f²)	30		
30-300	27.5	0.073	0.2	30		
300-1500	/	1	f/1500	30		
1500-100000	/	/	1.0	30		

### F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules.

The emissions should be within the limits at 300kHz in Table 1 of 1.1310 (use the 300kHz limits for 150kHz: 614V/m, 1.63A/m).

### For KDB680106 D01:

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. 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 the 15 cm measured from the center of the probe(s) to the edge of the device. 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.

<sup>\*=</sup>Plane-wave equivalent power density



# 2.2 MEASUREMENT DATA

### **Electric Field Emissions**

Test Position(20cm)	Probe Measure Results (V/m)	Limit (V/m)	
	intermediate charge	, ,	
Тор	1.29	614	

Test Position(15cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Тор	1.42	614
Front Side	0.53	614
Back Side	0.94	614
Left Side	0.86	614
Right Side	0.67	614
Bottom	1.33	614

### Note:

The maximum Probe Measure Results of this EUT is 1.42 V/m, less than 307 V/m(614 \*50%).

## Magnetic Field Emissions

Test Position(20cm)	Probe Measure Results (A/m)	Limit	
	intermediate charge	(A/m)	
Тор	0.040	1.63	

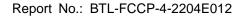
Test Position(15cm)	Probe Measure Results (A/m)	Limit (A/m)	
	intermediate charge	(, (, , , , ,	
Тор	0.042	1.63	
Front Side	0.012	1.63	
Back Side	0.016	1.63	
Left Side	0.013	1.63	
Right Side	0.019	1.63	
Bottom	0.042	1.63	

### Note

The maximum Probe Measure Results of this EUT is 0.042 A/m, less than 0.815 V/m(1.63\*50%).

### Remark:

- 1. The EUT has the maximum average output power when the support unit is in low power and being charged by EUT.
- 2. The transfer system includes only single primary. The transfer system desinged by Wireless Power Consortium (WPC). The main purpose is Provide convenient and universal wireless charging for mobile phones and other portable electronic devices. Under the Qi standard, the transmission and reception use flat inductors to transmit energy by inductive coupling.





# 3. MEASUREMENT INSTRUMENTS LIST

Human Exposure					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EM Radiation Meter	N/A	EMR-30	E-081	Apr. 14, 2023

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

**End of Test Report**