

Human Exposure Report

FCC ID: RWO-RZ010248

Project No. : 1712C044
Equipment : Gaming Mouse
Test Model : RZ01-0248
Series Model : RZ01-0248XXXX-XXXX (X: Can be 0-9, A-Z)
Applicant : Razer Inc.
Address : 201 3rd Street, Suite 900, San Francisco, CA
94103, USA

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

Date of Receipt : Dec. 07, 2017
Date of Test : Dec. 13, 2017 ~ Jan. 26, 2018
Issued Date : Feb. 08, 2018
Tested by : BTL Inc.

PREPARED BY :


(Welly Zhou/ Technical Engineer)

APPROVED BY :


(Steven Lu / Technical Manager)

B T L I N C .

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Table of Contents	Page
1 . GENERAL INFORMATION	3
1.1 TEST FACILITY	3
2 . TEST RESULTS	3
2.1 LIMITS	3
2.2 MEASUREMENT DATA	4
3 . MEASUREMENT INSTRUMENTS LIST	5
4 . TEST PHOTOS	6

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 Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm registration number for FCC: 854385

BTL's designation number for FCC: CN5020

2. TEST RESULTS

2.1 LIMITS

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational / Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	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/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density 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).				

2.2 MEASUREMENT DATA

1. Gaming Mouse has been charge at intermediate charge.

Electric Field Emissions

Test Position	Probe Measure Results (V/m)	Limit (V/m)	30% Limit (V/m)
	intermediate charge		
Front Side	15.67	614	184.2
Back Side	35.66	614	184.2
Left Side	47.12	614	184.2
Right Side	34.27	614	184.2
Top	19.45	614	184.2
Bottom	27.25	614	184.2

Magnetic Field Emissions

Test Position	Probe Measure Results (A/m)	Limit (A/m)	30% Limit (A/m)
	intermediate charge		
Front Side	0.0131	1.63	0.489
Back Side	0.0974	1.63	0.489
Left Side	0.0998	1.63	0.489
Right Side	0.0962	1.63	0.489
Top	0.0472	1.63	0.489
Bottom	0.0289	1.63	0.489

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. 01, 2018

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

4. TEST PHOTOS

Front Side	Back Side
	
Left Side	Right Side
	
Top	Bottom
	