





# FCC RF EXPOSURE REPORT

**FCC ID: RWO-RZ020493** 

**Project No.** : 2409C254

**Equipment**: GAMING MOUSE MAT

Brand Name :

RAZER,

Test Model : RZ02-0493

Series Model : RZ02-0493XXXX-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: Razer SEA HQ, 1 One-north Crescent, #02-01, Singapore 138538Factory: RAZER TECHNOLOGY AND DEVELOPMENT (SHENZHEN)CO., LTDAddress: East Wing, 3rd Floor, Block 2, Phase 1 of Vision ShenzhenBusiness

Park Keji South Road, Hi-Tech IndustrialPark, Shenzhen 518057,

China

Date of Receipt : Oct. 11, 2024

**Date of Test** : Oct. 11, 2024 ~ Dec. 27, 2024

**Issued Date** : Jan. 06, 2025

Report Version : R00

**Test Sample**: Engineering Sample No.: DG2024101117

Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01

v06

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

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# **REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2409C254	R00	Original Report.	Jan. 06, 2025	Valid



#### 1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969 BTL's Designation Number for FCC: CN1377

#### 2. GENERAL CONCULUSION

According to FCC KDB447498 D01 v06, Appendix A, SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and  $\leq 50 \text{ mm}$ , the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$  3.0 for 1-g SAR, and  $\leq$  7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

	Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz										
and ≤ 50 mm											
MHz	5	10	15	20	25	30	35	40	45	50	mm
150	39	77	116	155	194	232	271	310	349	387	
300	27	55	82	110	137	164	192	219	246	274	
450	22	45	67	89	112	134	157	179	201	224	
835	16	33	49	66	82	98	115	131	148	164	
900	16	32	47	63	79	95	111	126	142	158	
1500	12	24	37	49	61	73	86	98	110	122	SAR Test Exclusion
1900	11	22	33	44	54	65	76	87	98	109	Thresholds (mW)
2450	10	19	29	38	48	57	67	77	86	96	
3600	8	16	24	32	40	47	55	63	71	79	
5200	7	13	20	26	33	39	46	53	59	66	
5400	6	13	19	26	32	39	45	52	58	65	
5800	6	12	19	25	31	37	44	50	56	62	





## 3. TABLE FOR FILED ANTENNA

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	RAZER	RZ02-0493	PCB	N/A	4.48

Note: The antenna gain is provided by the manufacturer.

## 4. TEST RESULTS

Frequency (MHz)	Max Output power (dBm)	Max Output power (mW)	Distance (mm)	Result	Limit
2402	4.21	2.636	5	0.817	3

#### Note:

- (1) Output power including tune up tolerance.(2) No SAR evaluation required since transmitter power is below FCC threshold.

**End of Test Report**