

# RF EXPOSURE REPORT

Applicant	Razer Inc.
Address	9 Pasteur, Suite 100, Irvine, California, United States, 92618



Manufacturer or Supplier	RAZER (ASIA-PACIFIC) PTE. LTD.
Address	Razer SEA HQ, 1 One-north Crescent, #02-01, Singapore 138538, Singapore
Product	Wireless Mouse
Brand Name	RAZER
Model	RZ01-0525
Additional Model & Model Difference	RZ01-0525XXXX-XXXX (X can be 0~9 or A~Z); see item 1
Date of tests	Nov. 05, 2024 ~ Nov. 18, 2024

☒ FCC Part 2 (Section 2.1093)

☒ KDB 447498 D01 V06

☒ IEEE C95.1

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

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Date: Dec. 02, 2024

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Test Report No.: FM2410WDG0234

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Test Report No.: FM2410WDG0234

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2410WDG0234	Original release	Dec. 02, 2024

## 1. CERTIFICATION

<b>FCC ID:</b>	RWO-RZ010525
<b>PRODUCT:</b>	Wireless Mouse
<b>BRAND NAME:</b>	RAZER
<b>MODEL NO.:</b>	RZ01-0525
<b>ADDITIONAL NO.:</b>	RZ01-0525XXXX-XXXX (X can be 0~9 or A~Z)
<b>APPLICANT:</b>	Razer Inc.
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1093)
	KDB 447498 D01 V06
	IEEE C95.1

Note: Additional model is identical with the test model BX2355Z except the packaging and model no. for trading purposes.

## 2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, 16 where

- $f(\text{GHz})$  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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
- a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot$  (f(MHz)/150)] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot$  10] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
- a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

## 3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device**.

## 4. CALCULATED RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE GFSK (1 Mbps)	2402-2480	4	$\pm 1.5$	2.5	5.5
BT-LE GFSK (2 Mbps)	2402-2480	4	$\pm 1.5$	2.5	5.5
2.4GHz Wireless	2402-2480	4	$\pm 1.5$	2.5	5.5

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE GFSK (1 Mbps)	2402	5.03
BT-LE GFSK (2 Mbps)	2402	5.08
2.4GHz Wireless	2402	5.05

### SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Verdict
2402-2480 BT-LE	5.5	5	1.10	3.0	Exempt from SAR
2402-2480 2.4GHz Wireless	5.5	5	1.10	3.0	Exempt from SAR

BT and 2.4GHz wireless can't transmit simultaneously.

### Conclusion

Therefore, this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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