

FCC RF EXPOSURE REPORT

FCC ID: RWO-RZ060309R

Project No. : 1907C051
Equipment : Gaming Controller
Brand Name : RAZER
Test Model : RZ06-03090R
Series Model : RZ06-03090RXX-XXXX (X: Can Be: A~Z, 0~9)
Applicant : Razer Inc.
Address : 201 3rd Street, Suite 900, San Francisco, CA 94103 USA
Manufacturer : Razer (Asia-Pacific) Pte.,Ltd.
Address : 514 Chai Chee Lane, #07-01-06,Singapore 469029
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 : Jul. 05, 2019
Date of Test : Jul. 08, 2019 ~ Sep. 23, 2019
Issued Date : Sep. 27, 2019
Report Version : R00
Test Sample : Engineering Sample No.: DG1907085
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1
KDB447498 D01 General RF Exposure Guidance 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 Version	Description	Issued Date
R00	Original Issue.	Sep. 27, 2019

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Gaming Controller
Brand Name	RAZER
Test Model	RZ06-03090R
Series Model	RZ06-03090RXX-XXXX (X: Can Be: A~Z, 0~9)
Model Difference(s)	RZ06-0309 consists of left controller RZ06-03090L and right controller RZ06-03090R.
Hardware Version	DVT
Software Version	v80.0.0
Power Source	1# Supplied from battery. Model: FT442631P 2# Supplied from USB port.
Power Rating	1# DC 3.7V, 370mAh, 1.369Wh 2# DC 5V, 500mA
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Bit Rate of Transmitter	1/2Mbps
Max. Output Power for BT LE	5.17 dBm (0.0033 W) for 1Mbps 5.17 dBm (0.0033 W) for 2Mbps
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Bit Rate of Transmitter	2Mbps
Max. Output Power for 2.4G SRD	4.06 dBm (0.0025 W)


Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:
For BT LE & 2.4G SRD:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		2065130001	Internal	N/A	3.60

2. GENERAL CONCLUSION:

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 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)] · $\sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, 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

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	SAR Test Exclusion Thresholds (mW)
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	
1900	11	22	33	44	54	65	76	87	98	109	
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	

Maximum measured transmitter power:

For BT LE:

Max. Output Power (dBm)	Max. Output Power (mW)	Limit (mW)
7.17	5.212	10

For 2.4G SRD:

Max. Output Power (dBm)	Max. Output Power (mW)	Limit (mW)
4.06	2.547	10

The maximum measured output peak power of this EUT is 5.309mW, less than 10mW at 5mm distance.

Output power including tune up tolerance(tune up tolerance: ± 2 dBm).

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.

End of Test Report