

Razor USA LLC

SAR COMPLIANCE REPORT

Report Type:
FCC SAR assessment report

Model:
Sonic Glow Hovertrax

REPORT NUMBER:
220302633SHA-002

ISSUE DATE:
September 21, 2022

DOCUMENT CONTROL NUMBER:
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Applicant: Razor USA LLC
12723 166th Street, Cerritos CA90703, USA

Manufacturer: Razor USA LLC
12723 166th Street, Cerritos CA90703, USA

Factory: Zhejiang Bosuer Motion Apparatus CO.,LTD
No. 9, Hardware East Road, Hardware Machinery Industrial Estate,
Wuyi City, Zhejiang Province, China

FCC ID: 2AGU6007

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v07
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:**REVIEWED BY:**

Project Engineer
Sky Yang

Reviewer
Eric Li

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Revision History

| Report No. | Version | Description | Issued Date |
|------------------|---------|-------------------------|--------------------|
| 220302633SHA-002 | Rev. 01 | Initial issue of report | September 21, 2022 |
| | | | |
| | | | |

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

| | |
|----------------------------|---|
| Product name: | Sonic Glow Hovertrax |
| Type/Model: | Sonic Glow Hovertrax |
| Description of EUT: | The EUT is a smart balancing electric scooter with BLE function. |
| Rating: | 25.2V Battery Battery Charger: input: 100-240V~, 50/60Hz, 0.8A output: 25.2V, 0.4A |
| Category of EUT: | Class B |
| EUT type: | <input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing |
| Software Version: | / |
| Hardware Version: | / |
| Sample Identification No.: | 0210625-22-001 |
| Sample received date: | June 25, 2021 |
| Date of test: | June 25, 2021– September 16, 2022 |

1.2 Technical Specification

| | |
|----------------------|------------------------|
| Frequency Band: | 2400MHz ~ 2483.5MHz |
| Support Standards: | Bluetooth LE 4.2 |
| Type of Modulation: | GFSK |
| Channel Number: | 40 |
| Data Rate: | 1Mbps |
| Channel Separation: | 2MHz |
| Antenna Information: | 0dBi gain, PCB antenna |

TEST REPORT

1.3 Description of Test Facility

| | |
|------------|--|
| Name: | Intertek Testing Services Shanghai |
| Address: | Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China |
| Telephone: | 86 21 61278200 |
| Telefax: | 86 21 54262353 |

| | |
|---|---|
| The test facility is recognized, certified, or accredited by these organizations: | CNAS Accreditation Lab Registration No. CNAS L0139 |
| | FCC Accredited Lab Designation Number: CN0175 |
| | IC Registration Lab CAB identifier.: CN0014 |
| | VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252 |
| | A2LA Accreditation Lab Certificate Number: 3309.02 |

2 SAR Assessment

Test result: Pass

2.1 SAR Test Exclusion Limit

This method shall only be used at separation distances up to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula below:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula above.

The example values shown in below are for illustration only.

| Frequency (MHz) | Distance (mm) | | | | | | | | | | |
|-----------------|---------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| | 300 | 39 | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| | 450 | 22 | 44 | 67 | 89 | 112 | 135 | 158 | 180 | 203 | 226 |
| | 835 | 9 | 25 | 44 | 66 | 90 | 116 | 145 | 175 | 207 | 240 |
| | 1900 | 3 | 12 | 26 | 44 | 66 | 92 | 122 | 157 | 195 | 236 |
| | 2450 | 3 | 10 | 22 | 38 | 59 | 83 | 111 | 143 | 179 | 219 |
| | 3600 | 2 | 8 | 18 | 32 | 49 | 71 | 96 | 125 | 158 | 195 |
| | 5800 | 1 | 6 | 14 | 25 | 40 | 58 | 80 | 106 | 136 | 169 |

2.2 Assessment Results

The highest EIRP adjusted with tune-up tolerance is 1.93dBm = 1.56mW

1.56mW < 3mW (Test Exclusion Thresholds of 2450MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.

***** END *****