

Razor USA LLC

SAR COMPLIANCE REPORT

Report Type:
FCC SAR assessment report

Model:
C45

REPORT NUMBER:
221201042SHA-002

ISSUE DATE:
February 13, 2023

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: 2AGU6008

SUMMARY:

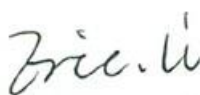
The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D04 Interim General RF Exposure Guidance v01

FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:**REVIEWED BY:**

Scout Gong
Project Engineer


Eric Li
Reviewer

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Revision History

Report No.	Version	Description	Issued Date
221201042SHA-002	Rev. 01	Initial issue of report	February 13, 2023

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Razor Electric Scooter
Type/Model:	C45
Description of EUT:	The EUT is an adult electric scooter with BLE function.
Rating:	Battery charger adapter: Input 100-240VAC, 50/60Hz, 2.5A. Output 54.6V, 1.5A Battery capacity: 46.8V, 7.6Ah
Category of EUT:	Class B
EUT type:	<input type="checkbox"/> Tabletop <input checked="" type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	0230108-51-001
Sample received date:	January 20, 2023
Date of test:	January 21, 2023– February 10, 2023

1.2 Technical Specification

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth LE 5.0
Type of Modulation:	GFSK
Channel Number:	40
Data Rate:	1Mbps
Channel Separation:	2MHz
Antenna Information:	-1.0dBi gain, PCB antenna

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 Member No: 3598 (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 -1.01dBm = 0.79mW
0.79mW < 3mW (Test Exclusion Thresholds of 2450MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.

***** END *****