MPE Test Report

Report No.:	AQUJ-ESH-P22010954B-3
FCC ID:	2ALS8-KS0010
Product:	Xiaomi Electric Scooter 4 Pro
Model:	DDHBC25NEB
Received Date:	Jan.20, 2022
Test Date:	Jan.20 to Feb.08, 2022
Issued Date:	Feb.09, 2022
Applicant:	Ninebot (Changzhou) Tech Co.,Ltd.
Address:	16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist., Changzhou, Jiangsu, 213100, China.
Manufacturer:	Ninebot (Changzhou) Tech Co.,Ltd.
Address:	16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist., Changzhou, Jiangsu, 213100, China.
Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation
Lab Address:	No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)

Test Lab
Cert 2343.01

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Release Control Record

Issue No.	Description	Date Issued
AQUJ-ESH-P22010954B-3	Original release	Feb.09, 2022

1 Certificate of Conformity

Product: Xiaomi Electric Scooter 4 Pro

Brand: --

Model: DDHBC25NEB

Applicant: Ninebot (Changzhou) Tech Co.,Ltd.

Test Date: Jan.20 to Feb.08, 2022

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Jan.Zhou , **Date:** Feb.09, 2022

Yan ZHOU

Project Engineer

Approved by : Daniel , **Date:** Feb.09, 2022

Daniel SUN

EMC Lab Manager

2 General Information

2.1 General Description of EUT

Product	Xiaomi Electric Scooter 4 Pro
Brand	--
Test Model	DDHBC25NEB
Model Difference	--
Power Rating	DCInput:41Vdc, 1.7A
Adapter	Model: BCTA+71420-1701 Input: 100-240Vac,50/60Hz 2.0A Output: 42Vdc,5.0A
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 4.1
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Antenna Type	PCB Antenna
Antenna Gain	0.2 dBi

Note:

1. For more details, please refer to the User's manual of the EUT.

3 RF Exposure

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 ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 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

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 step1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
b) [Threshold at 50 mm in step1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 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(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 ½ for test separation distances ≤ 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.

SAR Test Exclusion Thresholds for 2450MHz

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	mW

3.1 Classification

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

3.2 SAR Test Exclusion Thresholds

The tuned conducted Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BLE	2402-2480	0	±1	-1	1

The measured conducted Power

Mode	Frequency (MHz)	Max. Conducted Output power(dBm)
BLE	2402	0.96

SAR Test Exclusion Thresholds

Frequency Band (MHz)	Max. Conducted output power(dBm)	Test separation (mm)	Result (mW)	Exclusion threshold (mW)	Verdict
BLE	0.96	150	1.25	1096	Exempt from SAR

Conclusion:

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

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