



MPE Test Report

Report No.: AQUJ-ESH-P20031302B-3

FCC ID: 2ALS8-KS0002

Product: Ninebot KickScooter

Model: Air T15

Serial Model Air T15 Pro

Received Date: Mar.13,2020

Test Date: Mar.13 to Apr.13, 2020

Issued Date: Apr.13, 2020

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

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

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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Release Control Record

Issue No.	Description	Date Issued
AQUJ-ESH-P20031302B-3	Original release	Apr.13, 2020



1 Certificate of Conformity

Product: Ninebot KickScooter

Brand: --

Model: Air T15

Serial Model Air T15 Pro

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

Test Date: Mar.13 to Apr.13, 2020

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 :

, Date:

Apr.13, 2020

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Approved by :

, Date:

Apr.13, 2020

Daniel SUN

EMC Lab Manager

2 General Information

2.1 General Description of EUT

Product	Ninebot KickScooter
Brand	--
Test Model	Air T15
Serial Model	Air T15 Pro
Model Difference	Air T15, Air T15 Pro have the same electronic structure. The difference is the cell capacity.
Power Rating	DC 42V,1.7A
Adapter:	Model: BCTA+71420-1700 Input:AC100-240V,50/60Hz,2.0A Max Output: DC42V, 1.7A
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 4.1
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Antenna Type	PCB Antenna
Antenna Connector	--
Antenna Gain	-1.26dBi

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

3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

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

3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402-2480	-1.36	-1.26	20	0.0001089	1

Conclusion:

The calculation result of MPE is less than the limit.

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