



## 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.

**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)

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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 :**

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, **Date:** Apr.13, 2020

Will YAN

Project Engineer

**Approved by :**

Daniel SUN

, **Date:** Apr.13, 2020

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<br>Input:AC100-240V,50/60Hz,2.0A Max<br>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 <sup>2</sup> ) | 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/cm<sup>2</sup>

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 <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|----------------------|----------------------------------|--------------------|---------------|-------------------------------------|-----------------------------|
| 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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