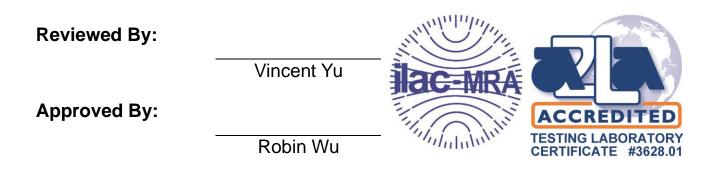


RF Exposure Evaluation Declaration

FCC ID: 2ALS8-KS0007

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

- Product: Segway KickScooter
- Model No.: P65U
- FCC Classification: Digital Transmission System (DTS)
- FCC Rule Part(s) FCC Part 2.1091
- Test ProcedureKDB 447498 D04 Interim General RF ExposureGuidance v01



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

Report No.	Version	Description	Issue Date	Note
2204RSU045-U3	Rev. 01	Initial Report	2022-06-07	Valid



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1. General Information

1.1. Applicant

Ninebot (Changzhou) Tech Co., Ltd.

16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist., Changzhou, Jiangsu, China

1.2. Manufacturer

Ninebot (Changzhou) Tech Co., Ltd.

16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist., Changzhou, Jiangsu, China

1.3. Testing Facility

\boxtimes	Test Site – MRT Suzhou Laboratory									
	Laboratory Location (Suzhou - Wuzhong)									
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP)									
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Accreditations									
	A2LA: 3628.01		CNAS	S: L10551						
	FCC: CN1166		ISED:	CN0001						
	VCCI:	R -20025	□G-20034	C-20020	T-20020					
	VCCI.	R -20141	□G-20134	C-20103	T-20104					
	Test Site – MRT Shenzhen Laboratory									
	Laboratory Loca	ation (Shenzhen)								
	1G, Building A, Ju	unxiangda Building,	Zhongshanyuan Roa	nd West, Nanshan Dis	strict, Shenzhen, China					
	Laboratory Accr	editations								
	A2LA: 3628.02		CNAS	: L10551						
	FCC: CN1284		ISED:	CN0105						
	Test Site – MRT	Taiwan Laboratory	/							
	Laboratory Loca	ation (Taiwan)								
	No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)									
	Laboratory Accreditations									
	TAF: L3261-1907	25								
	FCC: 291082, TW3261 ISED: TW3261									



1.4. Product Information

Product Name	Segway KickScooter				
Model No.	P65U				
EUT Identification No.	20220424Sample#05 (For Radiated Test)				
	20220424Sample#06 (For Conducted Test)				
Bluetooth Specification	V4.1 single mode for BLE				
NFC Specification	13.56MHz				
Antenna Information	efer to Section 1.5				
Accessories					
Battery	Model No.: NCAF4813A / NCAF4812D				
	Nominal Voltage: 46.8VDC				
	Max. Charging Voltage: 54.6VDC				
	Nominal Energy: 561Wh				
Nominal Capacity: 12 Ah					
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall					
be the responsibility of the manufacturer.					

1.5. Radio Specification

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps
Antenna Type	PCB Antenna
Antenna Gain	-1.26dBi

1.6. Device Classification

According to the user manual, the antenna of this device is at least 20cm away from the body of the user, this device is classified as a **Mobile Device**. Therefore, the RF exposure evaluation requirements of FCC Part 2.1091 for mobile device exposure conditions subject to MPE limits.



2. **RF Exposure Evaluation**

2.1. Test Limits

According to FCC Part 2.1091, A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the RF source's radiating structure(s) and the body of the user or nearby persons.

According to FCC Part 1.1307(b)(3)(i)(C), for the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

RF Source Frequency (MHz)	Threshold ERP (watts)					
0.3-1.34	1.920 R ²					
1.34-30	3.450 R ² /f ²					
30-300	3.83 R ²					
300-1500	0.0128 R ² f					
1500-100,000 19.2 R ²						
f = frequency in MHz, R = minimum separation distance in meters.						

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

According to FCC Part 1.1307(b)(3)(ii)(B), in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{\text{th},i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$



2.2. Test Result

Product	Segway KickScooter
Test Item	RF Exposure Evaluation

Test	Frequency Band	Max.	Max.	EIRP	ERP	Compliance	Threshold	Result
Mode	(MHz)	Conducted	Antenna	(dBm)	(VV)	Distance (R)	ERP	
		Power	Gain			(m)	(VV)	
		(dBm)	(dBi)					
BLE	2402 ~ 2480	-0.17	-1.26	-1.43	0.0004	0.2	0.768	Pass

Note:

- 1. EIRP (dBm) = Max. Conducted Power (dBm) + Max. Antenna Gain (dBi)
- 2. ERP (W) = $10^{[ERP (dBm) 30]/10} = 10^{[EIRP (dBm) 2.15 (dB) 30]/10}$
- 3. Threshold ERP (W) = 19.2 * R² (W) = 19.2 * 0.2² (W) = 0.768 (W)

Test	Frequency	Max. EIRP	Max. EIRP	ERP	Compliance	Threshold	Result
Mode	Band	(dBµV/m)@3m	(dBm)	(W)	Distance (R)	ERP	
	(MHz)				(m)	(W)	
NFC	13.56	53.482	-41.718	0.00000004	0.2	0.0008	Pass

Note:

1. Max. EIRP (dBm) = Max. EIRP (dBµV/m)@3m - 95.2

2. ERP (W) = $10^{[ERP (dBm) - 30]/10} = 10^{[EIRP (dBm) - 2.15 (dB) - 30]/10}$

3. Threshold ERP (W) = $3.45 \times R^2 / f^2$ (W) = $3.45 \times 0.2^2 / (13.56)^2$ (W) = 0.0008 (W)

The Bluetooth-LE can transmit simultaneously with NFC.

Exposure Ratio = 0.0004 / 0.768 + 0.00000004 / 0.0008 = 0.0006 < 1.

Therefore, this device meets the RF Exposure requirements when it is installed and operated with a minimum distance of 20cm between the radiator and user.