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# RF Exposure Report

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Report No.: AGC12971220702FH01

**FCC ID** : 2AJYRNM01323785  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Stand Magnetic Charger  
**BRAND NAME** : NOMAD  
**MODEL NAME** : NM01323785, NM01324485  
**APPLICANT** : Nomad Goods, Inc  
**DATE OF ISSUE** : Aug. 18, 2022  
**STANDARD(S)** : KDB680106 D01 RF Exposure Wireless Charging Base App v03r01  
**REPORT VERSION** : V 1.0



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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 18, 2022	Valid	Initial Release

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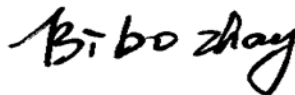
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## 1. GENERAL INFORMATION

<b>Applicant</b>	Nomad Goods, Inc
<b>Address</b>	1187 Coast Village Rd., #638, Santa Barbara, CA 93108, United States
<b>Manufacturer</b>	NuVolta Technologies (Hefei) Co., Ltd.
<b>Address</b>	Room 605/606, No.2800, Building F-1, Innovation Industrial Park Phase 2, Innovation Avenue, High-tech Zone, Hefei, Anhui, PRC.
<b>Factory</b>	HUIZHOU MIKI TECHNOLOGY CO., LTD.
<b>Address</b>	2F, 1# Building MIKI Industrial Park, Guangtaibei Road 39, Huinan Hi-Tech Industrial Park, Huizhou, Guangdong.
<b>Product Designation</b>	Stand Magnetic Charger
<b>Brand Name</b>	NOMAD
<b>Test Model</b>	NM01323785
<b>Series Model</b>	NM01324485
<b>Difference description</b>	The test Model is a black shell, the series model is a white shell, and the appearance color is different.
<b>Deviation from Standard</b>	No any deviation from the test method
<b>Date of Test</b>	Jul. 28, 2022 to Aug. 18, 2022
<b>Test Result</b>	Pass

Prepared By



Bibo Zhang  
(Project Engineer)

Aug. 18, 2022

Reviewed By



Calvin Liu  
(Reviewer)

Aug. 18, 2022

Approved By



Max Zhang  
(Authorized Officer)

Aug. 18, 2022

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## 2. PRODUCT INFORMATION

### 2.1 PRODUCT TECHNICAL DESCRIPTION

<b>Equipment Specification</b>	WPT
<b>Operation Frequency</b>	110.1KHz-205KHz
<b>Hardware Version</b>	T-NO4_V1.0
<b>Software Version</b>	NU1708A2_Tx_JDM_T_NO4_MPA11_EPP_15W_0722
<b>Modulation Type</b>	FSK
<b>Number of channels</b>	1
<b>Field Strength of Fundamental</b>	69.88dBuV/m (Max)
<b>Antenna Designation</b>	Coil Antenna
<b>Power Supply</b>	DC 9V 2A
<b>Wireless Charging Output Power</b>	10W (9V/1.1A)
<b>Wireless Charging Input Power</b>	18W (9V/2A) (PD adapter)

### 2.2 TEST FREQUENCY LIST

Frequency Band	Channel Number	Test Frequency
110.1KHz-205KHz	01	143.8 KHz

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### 3. TEST ENVIRONMENT

#### 3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

### 3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (°C)	15 - 35	--
Relative humidity range	20 % - 75 %	--
Pressure range (kPa)	86 - 106	--
Power supply	--	--

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

### 3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
E-Field Strength(0.003-0.4MHz)	$\pm 1.5\text{dB}$
E-Field Strength(0.4-10MHz)	$\pm 1.3\text{dB}$
H-Field Strength(0.003-0.4MHz)	$\pm 1.3\text{dB}$
H-Field Strength(0.4-10MHz)	$\pm 1.2\text{dB}$

### 3.5 LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	WAVECONTROL	SMP2	J-0004	Jun. 08, 2022	Jun. 07, 2023
Probe FHP	WAVECONTROL	WP400	J-0015	Jun. 08, 2022	Jun. 07, 2023

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#### 4. EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

Test Accessories Come From The Laboratory

Item	Equipment	Model No.	Identifier	Note
2	Huawei adapter	HW-200325CP0	N/A	AE
3	Wireless charging load	N/A	N/A	AE

Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	Stand Magnetic Charger	NM01323785	FCC ID: 2AJYRNM01323785	EUT

#### 5. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	Exposure Conditions
1	Mode 1: DUT + Wireless load (10W Full load mode)	Mobile
2	Mode 2: DUT + Wireless load (10W Half load mode)	Mobile
3	Mode 3: DUT + wireless load (Null Load mode)	Mobile

Note: All test modes were pre-tested, but we only recorded the worst case in this report.



## 6. RF EXPOSURE MEASUREMENT

### 6.1 REFER EVALUATION METHOD

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.  
 FCC KDB publication 680106 D01v03r01 RF Exposure Wireless Charging Apps v03: RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications  
 FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.  
 FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices.  
 FCC CFR 47 part 18.107: Industrial, Scientific, and Medical Equipment.

### 6.2 TEST LIMITS

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500	/	/	f/300	6
1,500-100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500	/	/	f/1500	30
1,500-100,000	/	/	1.0	30

F=frequency in MHz

\*=Plane-wave equivalent power density

According to FCC KDB 680106 D01v03r01 Section 3. RF Exposure Requirements clause 3 the Emission-Limits in the frequency range from 100 KHz to 300 KHz should be assessed versus the limits at 300 KHz in Table 1 of CFR 47 – Section1.310 as following (measured distance shall be 15cm from the center of the probe to the edge of the device):

	E-Field	*/*	B-Field
Frequency	V/m	A/m	uT
0.3 MHz – 3.0 MHz	614	1.613	2.0
3.0 MHz – 30 MHz	824/f (=27.5 <sub>30MHz</sub> )	2.19/f (=0.073 <sub>30MHz</sub> )	--

A KDB inquire was required to determine/confirm the applicable limits below 100 KHz.

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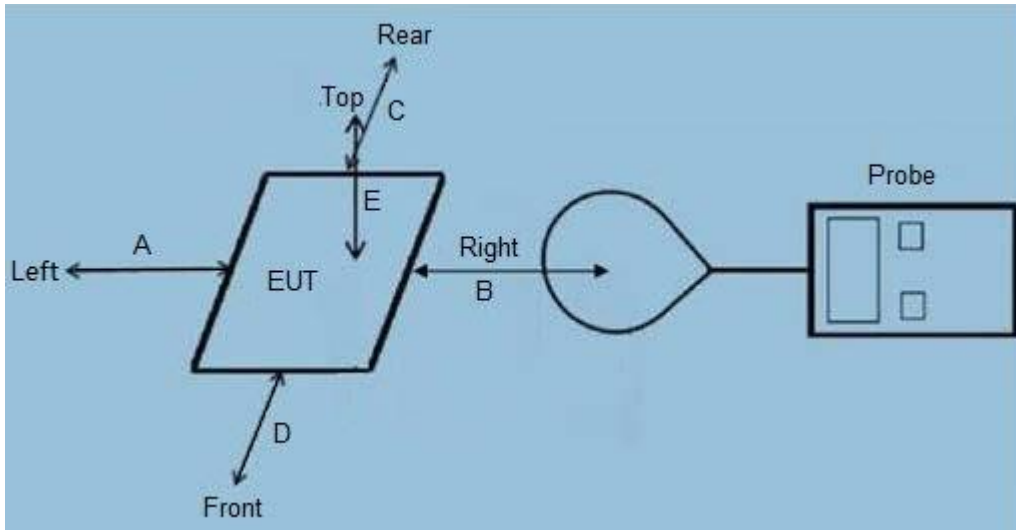
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### 6.3 MEASUREMENT SETUP

Mobile:



Note:

- RF exposure assessment tests are conducted in a shielded room.
- Refer to the following test method description for the test distance between the edge of the charger and the measuring probe.
- As shown in the above picture, the test layout is not for the real object, only the requirements of the test layout listed in the standard requirements are presented, for reference only.
- The actual test EUT distinguishes the test type according to the requirements as shown in the figure above.

#### 6.4 MEASUREMENT PROCEDURE

For mobile RF exposure:

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (15cm) which is between the edge of
- c) the charger and the geometric center of probe. And a test distance (20cm) which is between the Top of the charger and the geometric center of probe.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106 D01v03r01.

Remark: The diameter size of the probe is 11.5cm.

### 6.4 MEASUREMENT RESULTS

Mobile devices are evaluated as follows:

Operate Mode	Field Strength	Measured H-Field Strength Values (A/m) Measured E-Field Strength Values (V/m)					FCC Limit	50%_FCC limit
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
Mode 1	nT	845.48	922.11	787.69	938.44	902.01	--	--
Mode 1	A/m	0.673	0.734	0.627	0.747	0.718	1.63	0.815
Mode 1	V/m	0.637	0.651	0.726	0.713	0.735	614	307

Note: Unit conversion formula: 1ut=1.25A/m

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## **APPENDIX I: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC12971220702AP02

**-----END OF REPORT-----**

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
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9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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