

Nomad Goods, Inc.

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

NM01174585, NM01151685, NM01175285

REPORT NUMBER:

220102162SHA-003

ISSUE DATE:

March 21, 2022

DOCUMENT CONTROL NUMBER:

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Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North) Caohejing Development Zone Shanghai 200233, China

Telephone: 86 21 6127 8200

www.intertek.com

Report no.: 220102162SHA-003

Applicant: Nomad Goods, Inc.

1187 Coast Village Rd. #638 Santa Barbara, CA 93108, United

Address of Applicant: States

Manufacturer: Nomad Goods, Inc.

1187 Coast Village Rd. #638 Santa Barbara, CA 93108, United

Address of Manufacturer: States

Factory: Zhongshan Zen Factory Ltd.

Address of Factory: 6th.Industrial Area, Nanlang Town, Zhongshan City,

Guangdong, China

FCC ID: 2AJYRNM01151685

SUMMARY:

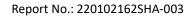
DDEDADED BV.

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310

FILFARED DI.	REVIEWED DI.	
Sky Yang	J.W	
Project Engineer	Reviewer	
Sky Yang	Wakeyou Wang	

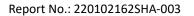
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Revision History

Report No.	Version	Description	Issued Date
220102162SHA-003	Rev. 01	Initial issue of report	March 21, 2022

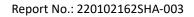




1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Base One Max with MagSafe			
Type/Model:	NM01174585, NM01151685, NM01175285			
	The EUT is Base One Max with MagSafe. The additional model			
	NM01151685, NM01175285 is identical with the test model			
Description of EUT:	NM01174585, Except for the appearance color.			
Rating:	17.5W			
Category of EUT:	Class B			
EUT type:	☐ Table top ☐ Floor standing			
Operating Frequency				
range:	127.7 kHz			
Antenna Type:	Coil antenna			
Sample received date:	January 14, 2022			
Date of test:	February 17, 2022 to February 17, 2022			





1.2 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized,	CNAS Accreditation Lab Registration No. CNAS L0139
certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN1175
0.80200.0	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

All tests were sub-contracted.

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng Science and Technology Park,

Longhua District, Shenzhen, China 518109

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

All tests were sub-contracted at Shenzhen UnionTrust Quality and Technology Co., Ltd, and conducted by Kieron Luo

Reviewed and approved by Wakeyou Wang from Intertek Testing Services Shanghai.

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1



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The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

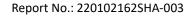
A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480





2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The test mode is as follows:

Test Mode 1: Wireless charging mode with Mobile phone (15W)

Test Mode 2: Wireless charging mode with watch(2.5W)

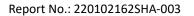
Test Mode 3: Wireless charging mode with Mobile phone (15W) + Wireless charging mode with

watch (2.5W)

Test Mode 4: Standby

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
1	Mobile phone	Apple, iphone12	N/A
2	Adapter	BULL, GNV-AU1652	N/A
3	Apple watches	Apple, WR-50M	N/A





2.4 Support Cable list

Item No	Description	Length (m)	Cable Type
1	Type-C Cable	2.0	Shielded without ferrite

2.5 Record of climatic conditions

Test Item	Temperature	Relative Humidity (%)	Pressure (kPa)
RF Exposure	26.5	56	101.8

2.6 Instrument list

	Test Equipment List							
Used	Used Equipment Manufacturer Model No. Serial Number Cal. date (mm dd, yyyy) (mm dd, yy							
	Probe	STT	EHP-50F	SZ186-04	July 20, 2021	July 20, 2022		
	Probe holder	STT	TR-01	N/A	N/A	N/A		
\boxtimes	Optical fiber line	STT	L=5M	N/A	N/A	N/A		



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3 MPE Assessment

Test result: Pass

3.1 MPE Assessment Limit

According to 47 CFR §1.1310, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

Limits for General Population/Uncontrolled Exposure

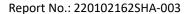
	•	<u>-</u>		
Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500	/	/	f/1500	30
1,500-100,000	/	/	1.0	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density.

3.2 Testing Procedure

Enabled the EUT to transmit and receive data continue

- a. The field strength of both E-field and H-field was measured at 15 cm surrounding the device and 20 cm above the top surface using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.
- b. The RF power density was measured with the battery at 3 different charge conditions: battery at less than 1 %, battery at 50% charger, battery at 99% charger,.
- c. Maximum E-field and H-field measurements were made 15cm from each side of the EUT. Along the side of the EUT and still 15cm away from the edge of the EU T, the field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.
- d. This device uses a wireless charging circuit for power transfer operating at the frequency of X

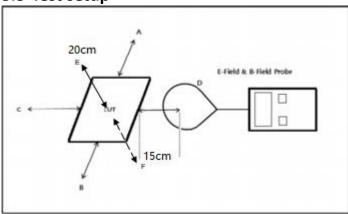




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kHz. Thus, the 300 kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).

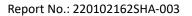
3.3 Test setup



Note

The RF exposure test is performed in the shield room

The test distance is between the edge of the charger and the geometric center of probe
The aggregate at 15 cm surrounding the device and 20 cm above the top surface from all
simultaneous transmitting coils are demonstrated.





3.4 TEST DATA

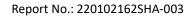
Worst case Test Mode 3

Test result of E-Field Strength

Test result of E field strength						
Test Position (cm)		<1% Battery	Test result (V/m) <50% Battery	Limit (V/m)	Result (Pass/Fail)	
	(6.11)	status	status	status	(*/)	(1 433) 1 411)
A: Right	15	0.1073	0.0506	0.1071	614	Pass
B: Left	15	0.6777	0.6054	0.6114	614	Pass
C: Front	15	0.7426	0.6915	0.6292	614	Pass
D: Back	15	0.4814	0.3984	0.3514	614	Pass
E: Top	20	1.3782	1.3328	1.2954	614	Pass
F: Bottom	15	0.7448	0.6816	0.6120	614	Pass

Test result of Magnetic Field Strength

Test Position	Test distance (cm)	Test result (A/m) <1% Battery <50% Battery <99% Battery status status status			Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.0054	0.0045	0.0048	1.63	Pass
B: Left	15	0.0550	0.0541	0.0530	1.63	Pass
C: Front	15	0.0423	0.0416	0.0411	1.63	Pass
D: Back	15	0.0482	0.0478	0.0472	1.63	Pass
E: Top	20	0.2000	0.1994	0.1982	1.63	Pass
F: Bottom	15	0.0058	0.0048	0.0055	1.63	Pass





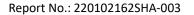
Test Mode 1:

Test result of E-Field Strength

Test Position	Test distance (cm)	Test result (V/m) <1% Battery <50% Battery <99% Battery status status status			Limit (V/m)	Result (Pass/Fail)
A: Right	15	0.1008	0.0937	0.0844	614	Pass
B: Left	15	0.6562	0.6469	0.6487	614	Pass
C: Front	15	0.7312	0.7288	0.7257	614	Pass
D: Back	15	0.4657	0.4651	0.4458	614	Pass
Е: Тор	20	1.2305	1.1590	1.2091	614	Pass
F: Bottom	15	0.7426	0.7262	0.7237	614	Pass

Test result of Magnetic Field Strength

Test Position	Test distance (cm)	Test result (A/m)			Limit	Result (Pass/Fail)
		<1% Battery status	<50% Battery status	<99% Battery status	(A/m)	(Fass/Fall)
A: Right	15	0.0050	0.0049	0.0045	1.63	Pass
B: Left	15	0.0548	0.0545	0.0548	1.63	Pass
C: Front	15	0.0419	0.0415	0.0417	1.63	Pass
D: Back	15	0.0481	0.0480	0.0479	1.63	Pass
E: Top	20	0.1996	0.1995	0.1992	1.63	Pass
F: Bottom	15	0.0057	0.0054	0.0056	1.63	Pass





Test Mode 2:

Test result of E-Field Strength

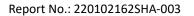
	Test result of E field Strength						
Test Position	Test distance (cm)	Test result (V/m)			Limit	Result	
		<1% Battery status	<50% Battery status	<99% Battery status	(V/m)	(Pass/Fail)	
A: Right	15	0.0796	0.0757	0.0639	614	Pass	
B: Left	15	0.6097	0.6047	0.6024	614	Pass	
C: Front	15	0.6870	0.6801	0.6797	614	Pass	
D: Back	15	0.4146	0.4121	0.3947	614	Pass	
E: Top	20	0.7865	0.7108	0.6460	614	Pass	
F: Bottom	15	0.6899	0.6850	0.6842	614	Pass	

Test result of Magnetic Field Strength

Test Position	Test distance (cm)	Test result (A/m) <1% Battery <50% Battery<99% Battery			Limit (A/m)	Result (Pass/Fail)
	(6)	status	status	status	(7 4)	(1 433) 1 411)
A: Right	15	0.0044	0.0043	0.0036	1.63	Pass
B: Left	15	0.0546	0.0544	0.0543	1.63	Pass
C: Front	15	0.0411	0.0410	0.0406	1.63	Pass
D: Back	15	0.0479	0.0477	0.0478	1.63	Pass
E: Top	20	0.1045	0.1041	0.1038	1.63	Pass
F: Bottom	15	0.0051	0.0048	0.0045	1.63	Pass

Note:

- 1. Test with 15cm distance from the center of the probe(s) to the edge of the device, 20 cm for top (Position E) test
- 2. All simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

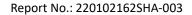




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Equipment Approval Considerations

Equipment Approval considerations			
Requirements of section 5 of KDB680106 D01 RF Exposure Wireless Charging App v03	Yes/No	Description	
Power transfer frequency is less than 1 MHz.	Yes	The device operates in the frequency 127.7kHz	
Output power from each primary coil is less than or equal to 15 watts.	Yes	The maximum output power of the primary coil is 15W	
The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes	The transmission system consists of two coils, it can work simultaneously.	
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter	
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes	Product is not a portable device.	
The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes	See the test data in section 2.4 of this report	





Appendix I: Photograph of test setup

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

##