EXPOSURE REPORT

FCC ID: 2AOA2-NM30110A00

Date of issue: Sept. 29, 2018

Report Number: MTi180925E134

Sample Description: TESLA MODEL 3 WIRELESS CHARGER

Model(s): NM30110A00

Applicant: Nomad Goods, Inc.

Address: 1187 Coast Village Rd. #638 Suite 1 Santa Barbara,

California United States 93108

Date of Test: Sept. 13, 2018 – Sept. 26, 2018

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

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Applicant's name:	Nomad Goods, Inc.		
Address:	1187 Coast Village Rd. #638 Suite 1 Santa Barbara, California United States 93108		
Manufacture's name:	ShenZhen XinZhenSheng Electronics Co., LTD		
Address:	Building 49, BaoTian Industrial Zone, Xixiang Town, Baoan District, ShenZhen, China		
Product name:	TESLA MODEL 3 WIRELESS CHARGER		
Trademark:	NOMAD		
Model name:	NM30110A00		
Standard:	FCC CFR 47 PART 1 , 1.1310		
RF Exposure Procedures:	KDB 680106 D01 RF Exposure Wireless Charging App v03		

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:	Demillion			
	Demi Mu	Sept. 26, 2018		
Reviewed by:	13 lue. Zherg			
	Blue Zheng	Sept. 29, 2018		
Approved by:		Swittchen		
	Smith Chen	Sept. 29, 2018		

1 General Information

1.1 Description of EUT

Product name:	TESLA MODEL 3 WIRELESS CHARGER
Brand name:	NOMAD
Model name:	NM30110A00
Series model:	N/A
Deference in serial model:	N/A
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	Load modulation
Antenna type:	Coil Antenna
Power source:	DC 5V from adapter
Battery:	N/A
Adapter information:	N/A

1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Adapter	HW-050100E01	/	/

1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

Radiated emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

2 Testing site

Test Site	Shenzhen Microtest Co., Ltd
Test Site Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E068	Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM- 520	D-1699	2018/07/13	2019/07/12
MTI-E069	Probe E-Field	Narda Safety Test Solutions	EF0691	H-0571	2018/07/13	2019/07/12

4 Test Results

1.4 Maximum permissible exposure

1.4.1 Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm2)	Averaging time(minutes)	
	(A) Limits for	r Occupational/Conti	olled Exposure		
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/f	4.89/f	*900/f ²	6	
30-300	61.4	0.163	1.0 6	6	
300-1500			f/300	6	
1500-100000			5	6	
	(B) Limits for Ge	neral Population/Und	controlled Exposure		
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	
300-1500			f/1500	30	
1500-100000			1	30	
f = frequency in MHz * = Plane-wave equivalent power density					

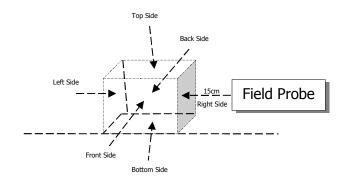
1.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 10 cm from all sides and the top of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

Record the test results.

1.4.3 Test Setup



(1) Power transfer frequency is less than 1MHz.
(Conform)
(2) Output power from each primary coil is less than or equal to 15 watts.
(Conform)
(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
(Conform)
(4) Client device is placed directly in contact with the transmitter.
(Conform)
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
(Conform)
(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
(Conform)

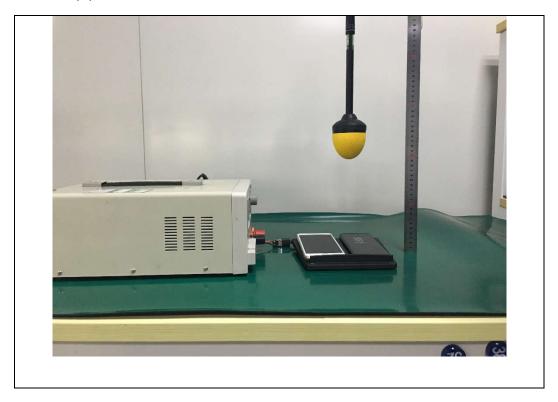
1.4.4 Test Result

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H-field(A/m)	
<1%	Тор	20	2.422	0.065	
<1%	Bottom	15	2.412	0.035	
<1%	Left	15	2.409	0.046	
<1%	Right	15	2.420	0.039	
<1%	Front	15	2.414	0.034	
<1%	Back	15	2.415	0.042	
	Limit	614	1.63		
	Margin Limit (%)	0.394	3.988		

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H-field(A/m)	
<50%	Тор	20	2.425	0.058	
<50%	Bottom	15	2.419	0.049	
<50%	Left	15	2.417	0.037	
<50%	Right	15	2.407	0.009	
<50%	Front	15	2.415	0.031	
<50%	Back	15	2.414	0.027	
Limit			614	1.63	
	Margin Limit (%)	0.395	3.558		

	Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H-field(A/m)	
<99%	Тор	20	2.432	0.059	
<99%	Bottom	15	2.427	0.054	
<99%	Left	15	2.424	0.056	
<99%	Right	15	2.418	0.052	
<99%	Front	15	2.423	0.057	
<99%	Back	15	2.416	0.055	
	Limit	614	1.63		
	Margin Limit (%)	0.396	3.620		

1.4.5 MPE Setup photo



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