

Test Report

Report No.: MTi180919E096

Date of issue: Sept. 27, 2018

Sample Description: Ontario wireless charger with speaker

Model(s): P308.873, P308.87

Applicant:

Address:

Date of Test: Sept. 10, 2018 – Sept. 27, 2018

Shenzhen Microtest Co., Ltd.
<http://www.mtitest.com>



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TEST RESULT CERTIFICATION	
Applicant's name:	
Address:	
Manufacture's name:	
Address:	
Product name:	Ontario wireless charger with speaker
Trademark:	N/A
Model name:	P308.873, P308.87
Standards:	EN 62311: 2008

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

Tested by:

Demi Mu

Demi Mu

Sept. 27, 2018

Reviewed by:

Blue Zheng

Blue Zheng

Sept. 27, 2018

Approved by:

Smith Chen

Smith Chen

Sept. 27, 2018

1. General description

1.1 Feature of equipment under test (EUT)

Product name:	Ontario wireless charger with speaker
Model name:	P308.873
Serial Model:	P308.87
Deference in serial model	All the model are the same circuit and RF module, except the model No..
Power source:	DC 5V from adapter AC 230V/50Hz or DC 3.7V from battery
Battery:	DC 3.7V 1200mAh
Adapter information:	N/A
Antenna designation:	PCB antenna (Antenna Gain: -0.68dBi)

1.2 Testing site

Test laboratory:	Shenzhen Microtest Co., Ltd.
Laboratory location:	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
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2. EN 62311 requirement

2.1 General information

The essential requirements of Directive 99/5/ec in the article 3.1(a) and the limits must be taken from Council Recommendation 99/519/EC for General Population or from the ICNIRP Guidelines for Occupational Exposure, EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz).

2.2 Limits

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1Hz	-	3.2×10^4	4×10^4	-
1-8Hz	10000	$3.2 \times 10^4 / f^2$	$4 \times 10^4 / f^2$	-
8-25Hz	10000	$4000 / f$	$5000 / f$	-
0.025-0.8kHz	$250 / f$	$4 / f$	$5 / f$	-
0.8-3kHz	$250 / f$	5	6.25	-
3-150kHz	87	5	6.25	-
0.15-1MHz	87	$0.73 / f$	$0.92 / f$	-
1-10MHz	$87 / f^{1/2}$	$0.73 / f$	$0.92 / f$	-
10-400MHz	28	0.073	0.092	2
400-2000MHz	$1.375 f^{1/2}$	$0.037 f^{1/2}$	$0.0046 f^{1/2}$	$f / 200$
2-300GHz	61	0.16	0.2	10

Note:

(1) As indicated in the frequency range column.

(2) For frequencies between 100 kHz and 10GHz, Seq, E2, H2 and B2 are to be averaged over any six-minute period.

(3) For frequencies exceeding 10GHz, Seq, E2, H2 and B2 are to be averaged over any 68/.1.05-minute period (.in GHz).

(4) No E-field value is provided for frequencies <1Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 20kV/m. Spark discharges causing stress or annoyance should be avoided.

2.3 Result

BT:

Mode	Output power e.i.r.p. (dBm)	Output power e.i.r.p. (mW)	Power Density (S) (mW/cm ²)	Limit (S) (W/cm ²)	Result
GFSK	-5.087	0.31	0.001	10	Pass
π/4-DQPSK	-4.161	0.38	0.001	10	

Note:

1. The access distance is 20cm.

2. $S = PG / 4\pi R^2$

P = Power input to antenna

G = Antenna Gain

R = distance to the center of radiation of antenna (in meter) = 20cm.

15C:

Frequency (KHz)	d(cm)	Max E-field strength (V/m)	E-field strength (V/m)	Result
110-205	20	0.0304	87	Pass

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