

# RF Exposure Report

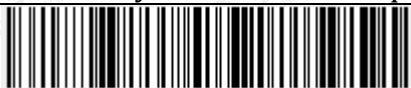
Report No.: AGC03721180402FH03

**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Wireless Charging  
**BRAND NAME** : N/A  
**MODEL NAME** : LTD-001  
**CLIENT** : Shenzhen Wan Lian Tong Da Technology Co.,LTD  
**DATE OF ISSUE** : May 07, 2018  
**STANDARD(S)** : KDB 680106 D01 RF Exposure Wireless Charging App v03  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 07, 2018	Valid	Initial Release

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## 1. VERIFICATION OF CONFORMITY

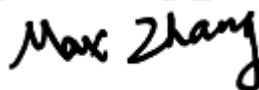
<b>Applicant</b>	Shenzhen Wan Lian Tong Da Technology Co.,LTD
<b>Address</b>	4th Floor, East of Hongliyuan Building, No. 48 of Meihua Road, Fuyong Street, Bao'an District, Shenzhen, China
<b>Manufacturer</b>	Shenzhen Wan Lian Tong Da Technology Co.,LTD
<b>Address</b>	4th Floor, East of Hongliyuan Building, No. 48 of Meihua Road, Fuyong Street, Bao'an District, Shenzhen, China
<b>Product Designation</b>	Wireless Charging
<b>Brand Name</b>	N/A
<b>Test Model:</b>	LTD-001
<b>Date of test</b>	Apr. 25, 2018 to May 07, 2018
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-US-BR/RF (2013-03-01)

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB 680106 D01.

The results of testing in this report apply to the product/system which was tested only.

Tested by



Max Zhang(Zhang Yi)

May 07, 2018

Reviewed by



Bart Xie(Xie Xiaobin))

May 07, 2018

Approved By



Forrest Lei(Lei Yonggang)

May 07, 2018

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	176.1KHz
Maximum field strength	55.72dBuV/m(Peak)@3m
Modulation	FSK
Number of channels	1
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	END-02
Software Version	V1.0
Power Supply	Input: 5V/2A, 9V/1.67A Output: 5V/1A, 7.5V/1A, 9V/1.2A

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### 3. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode at 9V 1.2A(Full load)
2	Wireless charging Mode at 9V 1.2A (half load)
3	Wireless charging Mode at 9V 1.2A (Null load)
4	Wireless charging Mode at 7.5V 1A(Full load)
5	Wireless charging Mode at 7.5V 1A (half load)
6	Wireless charging Mode at 7.5V 1A (Null load)
7	Wireless charging Mode at 5V 1A (Full load)
8	Wireless charging Mode at 5V 1A (half load)
9	Wireless charging Mode at 5V 1A (Null load)

Note:

1. The mode 1 was the worst case and only the data of the worst case record in this report.
2. Output 9V/1.2A is the worst case of the three voltages under test.

### 4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Charging	LTD-001	2AP8D-LTD-001	EUT
2	Adapter	HW05010002	100-240V 50/60Hz 0.5A DC5V 1A	Support
3	Wireless electronic Load	--	Maximum power 12W	Support

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## 5. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
<b>NVLAP LAB CODE</b>	600153-0
<b>Designation Number</b>	CN5028
<b>FCC Test Firm Registration Number</b>	682566
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

## TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	J-0004	June 15, 2017	June 14, 2018
Probe FHP	Narda Safety Test Solutions GmbH	EHP-50F	J-0015	June 15, 2017	June 14, 2018

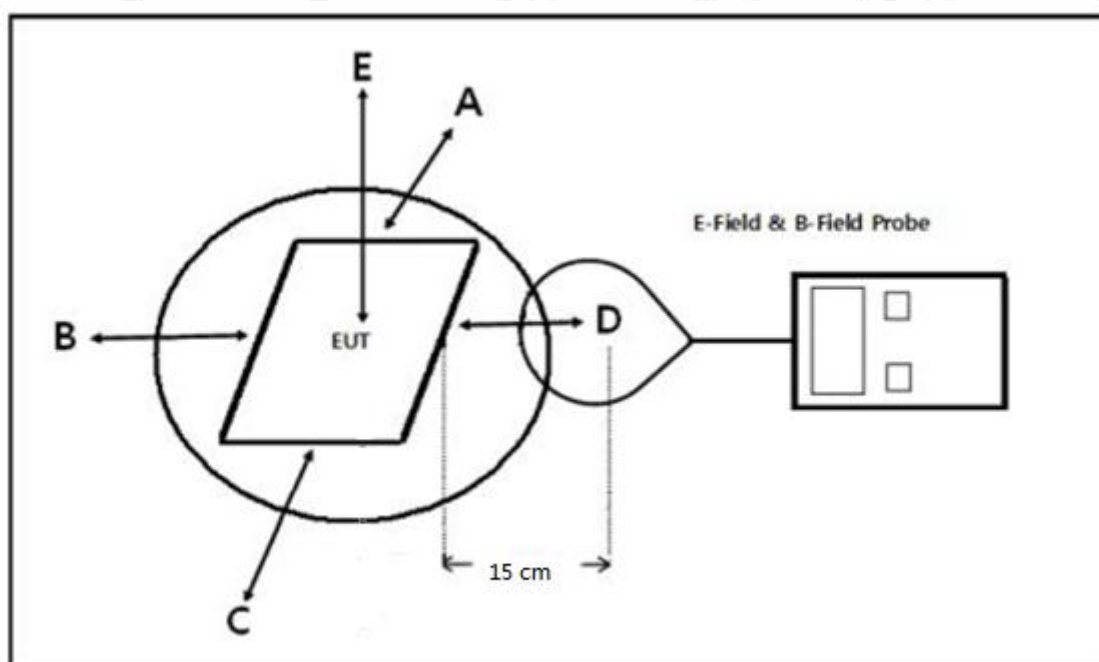
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## 6. RADIO FREQUENCY (RF) EXPOSURE TEST

### 6.1. LIMITS

For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

### 6.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(20 cm measure distance);

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### 6.3. TEST PROCEDURE

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. For top side the measure distance is 20cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

### 6.4. TEST RESULT

Test condition: Mode 1

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
176.1kHz	0.18	0.14	0.16	0.11	2.16	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
176.1kHz	0.09	0.07	0.11	0.06	0.67	1.63

Test condition: Mode 2

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
176.1kHz	0.05	0.10	0.08	0.11	0.75	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
176.1kHz	0.12	0.14	0.11	0.12	0.71	1.63

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Test condition: Mode 3

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
176.1kHz	0.04	0.108	0.07	0.06	0.71	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
176.1kHz	0.10	0.11	0.13	0.08	0.67	1.63

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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E



Position A



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Position B



Position C



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Position D



----END OF REPORT----

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