


Human Exposure Report

FCC ID: UZZTSXB237

Project No. : 1907C167
Equipment : Desktop Audio System
Brand Name :  **YAMAHA**
Test Model : TSX-B237
Series Model : N/A
S/N : Z003209UW for AC Power Line Conducted Emissions test,
Z003289UW for Radiated Emissions test.
Applicant : Beautiful Enterprise Co., Ltd.
Address : 27th Floor, Beautiful Group Tower, 77 Connaught Road
Central, Hong Kong
Manufacturer : Beautiful Enterprise Co., Ltd.
Address : 27th Floor, Beautiful Group Tower, 77 Connaught Road
Central, Hong Kong
Factory : Shenzhen Synchron Electronics Co., Ltd.
Address : No.9 Mei Li Road, Xia Mei Lin, Fu Tian Area, Shenzhen,
Guangdong, P.R. China.
Date of Receipt : Jul. 23, 2019
Date of Test : Aug. 01, 2019 ~ Oct. 28, 2019
Issued Date : Nov. 14, 2019
Report Version : R00
Test Sample : Engineering Sample No.: DG1908028
Standard(s) : 47 CFR PART 1, Subpart I, Section 1.1310
KDB680106 D01 RF Exposure Wireless Charging Apps v03

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Vincent Tan

Prepared by : Vincent Tan

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 14, 2019

1. GENERAL INFORMATION

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 357015

BTL's designation number for FCC: CN1240

2. TEST RESULTS

2.1 LIMITS

For 47 CFR PART 1, Subpart I, Section 1.1310:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational / Controlled Exposures				
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
300-1500	/	/	f/300	6
1500-100000	/	/	5	6
(B) Limits for General Population / Uncontrolled Exposures				
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	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules.

The emissions should be within the limits at 300kHz in Table 1 of 1.1310 (use the 300kHz limits for 150kHz: 614V/m, 1.63A/m).

For KDB680106 D01:

For devices designed for typical desktop applications, such a 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. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

2.2 MEASUREMENT DATA

Electric Field Emissions

Test Position(20cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Top	2.66	614

Test Position(15cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front Side	4.93	614
Back Side	3.89	614
Left Side	3.62	614
Right Side	3.82	614
Bottom	2.72	614

Note:

The maximum Probe Measure Results of this EUT is 4.47 V/m, less than 307 V/m(614 *50%).

Magnetic Field Emissions

Test Position(20cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Top	0.081	1.63

Test Position(15cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front Side	0.121	1.63
Back Side	0.091	1.63
Left Side	0.082	1.63
Right Side	0.079	1.63
Bottom	0.093	1.63

Note:

The maximum Probe Measure Results of this EUT is 0.089 A/m, less than 0.815 V/m(1.63*50%).

Remark: The EUT has the maximum average output power when the support unit is in low power and being charged by EUT.

3. MEASUREMENT INSTRUMENTS LIST

Human Exposure					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EM Radiation Meter	N/A	EMR-30	E-081	Apr. 15, 2020

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

4. TEST PHOTOS**End of Test Report**