

REPORT

RF EXPOSURE REPORT

FOR

Applicant	:	DONG GUAN JENMART INDUSTRIAL INVESTMENT CO., LTD
Address	:	No. 1203, Tower A, Wan Ying Building, Peng Temple Bridge, Shi Mei Community, Wan Jiang Area, Dong Guan City
Equipment under Test	:	Clock Radio With Wireless Charging
Model No. DONG DI	Ē	QiCR-200, CQ2, QiCR-200XXXXX (where XXXXX denote any printable characters in the ASCII Standard Character Table to represent variances in cosmetics or buyers)
Trede Mark		
I rade Mark	•	JEINSEIN
FCC ID	•	2APXVCQ2
FCC ID Manufacturer		2APXVCQ2 Dongguan City Wangniudun Yinghui Electronics Factory
FCC ID Manufacturer Address	· · · ·	2APXVCQ2 Dongguan City Wangniudun Yinghui Electronics Factory Chijiaoluduan Zhengzhong Road Wangniudun Town Dongguan City, China
FCC ID Manufacturer Address Factory	· · · · · ·	2APXVCQ2 Dongguan City Wangniudun Yinghui Electronics Factory Chijiaoluduan Zhengzhong Road Wangniudun Town Dongguan City, China Rich Field Electronics Co., Ltd

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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Equipment	:	Clock Radio With Wireless Charging			
Model No.	:	QiCR-200, CQ2, QiCR-200XXXXX (where XXXXX denote any printable characters in the ASCII Standard Character Table to represent variances in cosmetics or buyers)			
Trade Mark	:	JENSEN			
Manufacturer	:	Dongguan City Wangniudun Yinghui Electronics Factory			
Address	:	Chijiaoluduan Zhengzhong Road Wangniudun Town Dongguan City, China			
Factory	:	Rich Field Electronics Co., Ltd			
Address	:	No. 10, Lingxia Road, Tiantoujiao Village, QiaoTou Town, Dongguan City			

TEST REPORT DECLARE

Assess Standard Used: FCC CFR 47 part1, 1.1307(b), 1.1310

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After	evaluation,	our opinion	is that the	equipment I	In Accordance	with above	standard.

Report No:	DDT-R18050813-1E3					
Date of Test:	May 16, 2018~May 23, 2018	Date of Report:	May 23, 2018			

Prepared By:

Sam Li/Engineer



Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
	Initial issue	May 23, 2018	

1. General information

1.1. Description of Equipment

EUT* Name	:	Clock Radio With Wireless Charging		
Model Number	:	QiCR-200, CQ2, QiCR-200XXXXX (where XXXXX denote any printable characters in the ASCII Standard Character Table to represent variances in cosmetics or buyers)		
Difference of model number	:	All models are identical, except the model number, all tests are performed on model CQ2.		
EUT function description	:	Please reference user manual of this device		
Power supply		DC 5V from external AC Adapter DC 3V from batteries (2*1.5V "AAA" batteries)		
Wireless charging Operation frequency	:	110kHz-205kHz		
Antenna Type	:	Inductive loop coil antenna		
Sample Type	:	Series production		

Note: EUT is the ab. of equipment under test.

1.2. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Serial No.	Other
Simulation load	/	/	/	/
AC adapter	/	OBI -0503000U	/	Input: AC 100-240V 50/60Hz 1 0A MAX
	,		,	Output: DC 5V 3A

1.3. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel: +86-0769-89201699, E-mail: ddt@dgddt.com, http://www.dgddt.com

FCC Registration Number: 270092 Industry Canada site registration number: 10288A-1

2. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Electromagnetic Analyer	narda	ELT-400	N-0157	2017/09/17	1 Year
Magnetic field probe	narda	ELT probe 100cm ²	M0157	2017/09/17	1 Year

3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure is calculated.

According KDB680106 D01v03: RF Exposure Wireless Charging Apps v03.

3.2. Block diagram of test setup



Note: Due to installation limitations no tests from the underside of the charging device (Test Position F) are required.

3.3. Test Procedure

- a) The RF exposure test was performed in shielded chamber.
- b) The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- c) The measurement probe used to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v03.

3.4. Equipment Approval Considerations:

The EUT does comply with section 5 b) of KDB680106 D01 RF Exposure Wireless Charging App v03

(1) Power transfer frequency is less than 1MHz.

Yes; the device operate in the frequency range from 110kHz~205kHz

(2) Output power from each primary coil is less than or equal to 15 watts Yes; the maximum output power of the primary coil is 5W.

(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.

Yes; the transfer system includes only single primary and secondary coils.

(4) Client device is placed directly in contact with the transmitter. Yes.

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes.

f) The aggregate H-field strengths at 15 cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes; the EUT H-field strengths levels are less than 50% of MPE limit.

Frequency range (MHz)	Electric field strength (V/m)	lectric field strength Magnetic field strength (//m)		Averaging time (minutes)
	(A) Limits for O	ccupational/Controlled Exp	osure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/1	f 4.89/f	*900/f2	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/1	2.19/1	*180/f2	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

f = frequency in MHz * = Plane-wave equivalent power density

3.5. E and H field Strength

Test mode for wireless charger: Dummy load: Full Load, Zero charge and intermediate charge mode E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

	Prot	Limits		
Test Position	Full Load	Zero charge	intermediate charge	Test (V/m)
A	4.45	4.02	4.26	614
В	3.57	3.15	3.36	614
С	3.96	3.58	3.79	614
D	3.04	2.66	2.87	614
E	11.12	10.71	10.90	614

H-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (A/m)

	Prot	Limits		
Test Position	Full Load	Zero charge	intermediate	Test (A/m)
			charge	
A	0.159	0.342	0.254	1.63
В	0.151	0.310	0.239	1.63
С	0.143	0.302	0.238	1.63
D	0.127	0.286	0.223	1.63
E	0.342	0.477	0.405	1.63

4. Test Setup Photo











END OF REPORT