

Report No.: DDT-R22052502-1E02

■Issued Date: Jun. 14, 2022

RF EXPOSURE REPORT

FOR

Applicant	:	Shenzhen Yongdongke Innovation Technology Co., Ltd.
Address	:	Room 3-B03, Building A, Qingchuang City, Zhangkeng Complex, Minzhi Street, Longhua District, Shenzhen, China
Equipment under Test	:	NewQ Wireless Charger
Model No.	<u> </u>	NQ-WC-05
Totale Manie		NowO
Trade Mark	:	NewQ
FCC ID	:	2A39NNQWC05
	:	

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

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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Table of Contents

Report No.: DDT-R22052502-1E02

	Test report declares	3
1.	General Information	<u> </u>
1.1.	Description of equipment	
1.2.	Accessories of EUT	5
1.3.	Assistant equipment used for test	5
1.4.	Block diagram of EUT configuration for test	5
1.5.	Assess laboratory	6
2.	Equipment Used During Test	6
3.	Method of Measurement	7
3.1.	Applicable standard	
3.2.	Block diagram of test setup	
3.3.	Test procedure	7
3.4.	Equipment approval considerations:	
3.5.	E and H Field Strength	9
4.	Test Setup Photographs	10

Test Report Declare

Applicant	:	Shenzhen Yongdongke Innovation Technology Co., Ltd.	
Address		Room 3-B03, Building A, Qingchuang City, Zhangkeng Complex, Minzhi Street, Longhua District, Shenzhen, China	
Equipment	:	NewQ Wireless Charger	
Model No.	:	NQ-WC-05	
Trade Mark	:,	NewQ	
Manufacturer		Shenzhen Yongdongke Innovation Technology Co., Ltd.	
Address		Room 3-B03, Building A, Qingchuang City, Zhangkeng Complex, Minzhi Street, Longhua District, Shenzhen, China	

Assess Standard Used: FCC CFR 47 part1, 1.1307(b), 1.1310; KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

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 In Accordance with above standard.

Report No.:	DDT-R22052502-1E02	2 or	•Or
Date of Receipt:	May 25, 2022	Date of Test:	May 25, 2022 ~ Jun. 10, 2022

Prepared By:

Sam Li/Engineer

Damon Hu/EMC Manager

Approved By

Report No.: DDT-R22052502-1E02

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.

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Jun. 14, 2022	©
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1. General Information

1.1. Description of equipment

:	NewQ Wireless Charger		
:	NQ-WC-05		
:	Please reference user manual of this device		
-	DC 5V/1.5A, DC 9V/1.67A, DC 12V/1.25A from external AC adapter		
1	110 kHz - 205 kHz		
1	Inductive loop coil antenna		
:	N/A		
:	N/A		
	: :		

Report No.: DDT-R22052502-1E02

Note: EUT is the abbreviation of equipment under test.

1.2. Accessories of EUT

Į.	Description of Accessories	Manufacturer	Model number	Description	Remark
Ī	N/A	N/A	N/A	N/A	N/A

1.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	Other
AC Adapter	N/A	N/A	N/A	N/A
Dummy load	® N/A	N/A	N/A	◎ N/A

1.4. Block diagram of EUT configuration for test

For mode 1: Tx mode (5W load, 10W load, 15W load):



For mode 2: Standby mode:



Note: Scan with mode 1 and mode 2, the worst case is mode 1 Tx mode (10W load) and recorded in this report.

1.5. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

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

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Guangdong Province, China, 523808

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Electric and Magnetic	Narda S.T.S /	EHP 200A	170ZX00105	Dec. 22,	1 Year
field Probe - Analyzer	PMM	EHF ZUUA	1702/00105	2021	i i eai

3. Method of Measurement

3.1. Applicable standard

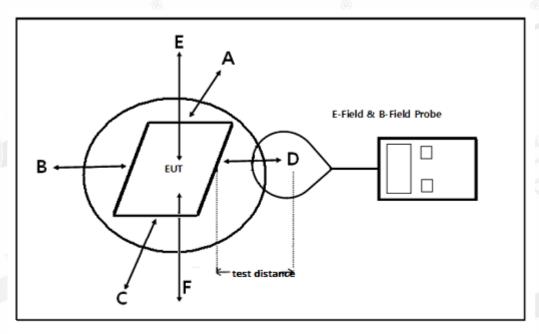
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Report No.: DDT-R22052502-1E02

According to §1.1310 and §2.1091 RF exposure is calculated.

According KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

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. The test position F is required when the distance is 0 cm for partable device.

3.3. Test procedure

- a) The RF exposure test was performed in shielded chamber.
- b) The measurement probe was placed at test distance (15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT) 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 680106 D01 RF Exposure Wireless Charging App v03r01.

3.4. Equipment approval considerations:

The EUT does comply with section 5 b) of KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

Report No.: DDT-R22052502-1E02

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

Yes; the device operates in the frequency range from 110 kHz - 205 kHz

- (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 15 W.
- (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time. Yes.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

 Yes.
- (6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

 Yes.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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 Exposure						
0.3-3.0	614	1.63	*100	6			
3.0-30	1842/	4.89/1	*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/	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			

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

3.5. E and H Field Strength

Test mode for wireless charger:

Dummy load: 15W Load, 5W Load and 10W Load mode

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

Report No.: DDT-R22052502-1E02

01 1110 201 (17111)				
Toot Docition	Pro	Limits		
Test Position	15W	5W	10W	Test (V/m)
Α	4.2674	1.3055	1.7956	614
В	2.8473	1.3505	1.7392	614
С	1.8044	1.0414	[®] 1.8341	614
D	2.5085	0.8369	1.3370	614
Г	10.000	2 4206	1 5211	611

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

Toot Docition	Pro	Limits		
Test Position	15W	5W	10W	Test (A/m)
Α	0.1286	0.0951	0.0963	1.63
В	0.2495	0.0830	0.1212	1.63
С	0.1517	0.1255	0.2497	1.63
D	0.1226	0.0722	0.2231	1.63
Е	1.0460	0.2807	0.4701	1.63