





RF EXPOSURE TEST REPORT

Applicant	CE LINK LIMITED
Address	Building M, Li Cheng, Technology Industrial Zone, Gong He Village, Sha Jing Town, Shen Zhen, China

Manufacturer or Supplier	CE LINK LIMITED
Address	Building M, Li Cheng, Technology Industrial Zone, Gong He Village, Sha Jing Town, Shen Zhen, China
Product	Magnetic Wireless Charger
Brand Name	NXT
Model	NX60458-US
Additional Model & Model Difference	NX60458-CC
Date of tests	Dec. 29, 2021

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

KDB 680106 D01

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tested by Lucas Chen	Approved by Glyn He
Project Engineer / EMC Department	Assistant Manager / EMC Department

Date: Jan. 20, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2112WDG3071	Original release	Jan. 20, 2022

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	A4X-NX60458-US		
PRODUCT	Magnetic Wireless Charger		
MODEL NO.	NX60458-US		
ADDITIONAL MODEL	NX60458-CC		
SAMPLE STATUS	Engineering sample		
POWER SUPPLY	Input: DC 5V/3A, DC 9V/2A Output: 5W, 7.5W, 10W		
MODULATION TECHNOLOGY	FSK		
OPERATING FREQUENCY RANGE	111KHz ~ 205KHz		
ANTENNA TYPE	Coil Antenna		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	USB-C to USB-C Cable:1.2m, Unshielded, Detachable		

NOTES:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 2112WDG3071-1) for detailed product photo.
- 4. Additional model NX60458-CC is identical with test model NX60458-US except the appearance and model number for marketing purpose.
- 5. The EUT was powered by the following adapter:

	, ,
ADAPTER	
BRAND:	CE-LINK
MODEL:	PD20x-1TNC
INPUT:	100-240V~, 50/60Hz, 0.6A Max
OUTPUT:	5V _{DC} , 3A; 9V _{DC} , 2.22A; 12V _{DC} , 1.67A Total: 20W Max



2. RF EXPOSURE MEASUREMENT

2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	strength strength		Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposur	res	
0.3–3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure	
0.3–1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f²)	30
30–300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

exposure or can not exercise control over their exposure.

Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

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

2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone 13 Pro	Apple	A2639	RWGKGR4X05	N/A

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^{† =} frequency in MHz

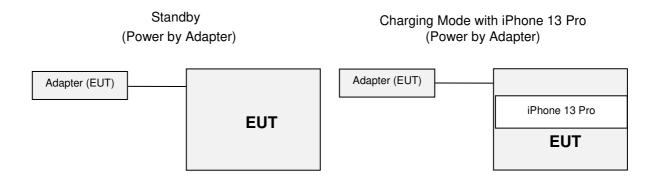
* = Plane-wave equivalent power density

Note 1 to Table 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

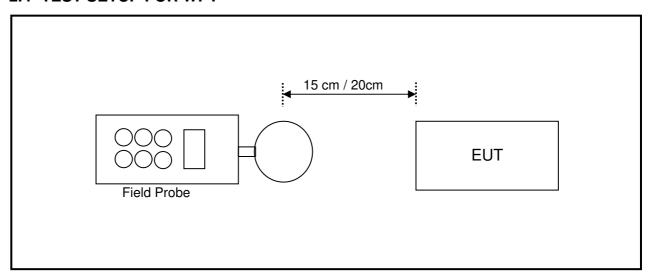
Note 2 to Table 1: General population/uncontrolled exposures apply in situations in which the general public may be exposure or can not exposure or can not exposure or can not exposure or can not exposure.



2.3 CONFIGURATION OF SYSTEM UNDER TEST



2.4 TEST SETUP FOR WPT



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

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2.5 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

Tabulated list of the error components and uncertainty values contributing to the total measurement uncertainty

Combined standard uncertainty and expanded uncertainty (for k≥2) of each measurement

PARAMETER	UNCERTAINTY
E-Field Measurement	±0.003 V/m
H-Field Measurement	±0.001 uT

2.6 EQUIPMENTS USED DURING TEST

Item	Test Equipment	Manufacturer	Model No.	Frequency Range	Next Cal.
1	RS Chamber	Chance Most	8m*4m*4m	E1-010019	Feb. 03,26
2	Narda Broadband Field Meter	Narda	NBM-520	100KHz-90GHz	2022-11-11
3	E-Field probe	Narda	EF0691	100KHz-6GHz	2022-06-13
4	Exposure Level Tester	Narda	ELT-400	1Hz-400KHz	2022-06-13

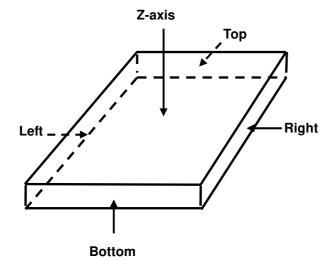
NOTES: 1. The test was performed in RS chamber.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

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2.7 TEST POINT DESCRIPTION



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2.8 TEST RESULTS

Mode 1 Standby

mode i clands							
E-Field Measurement							
Distance		15	cm		20cm		
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	1.28	1.28 1.24 1.3 1.33					
Limit (V/m)	614	614	614	614	614		
Margin (V/m)	-612.72	-612.76	-612.7	-612.67	-612.98		
50% Limit (V/m)	307	307	307	307	307		
50% Margin (V/m)	-305.72	-305.76	-305.7	-305.67	-305.98		

H-Field Measurement							
Distance		15cm					
EUT Side	Left	Left Right Top Bottom					
Max H-field (uT)	0.243	0.248	0.224	0.225	0.227		
Max H-field (A/m)	0.193	0.193 0.197 0.178 0.179					
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.437	-1.433	-1.452	-1.451	-1.449		
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815		
50% Margin (A/m)	-0.622	-0.618	-0.637	-0.636	-0.634		

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Mode 2: Operating with iPhone 13 Pro 10% Charger

Mode 2. Operating with historie 10 110 10 70 Charger							
E-Field Measurement							
Distance		15cm					
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	2.66	2.66 2.62 2.97 2.83					
Limit (V/m)	614	614 614 614 614					
Margin (V/m)	-611.34	-611.34 -611.38 -611.03 -611.17					
50% Limit (V/m)	307 307 307 307 3						
50% Margin (V/m)	-304.34	-304.38	-304.03	-304.17	-305.17		

H-Field Measurement							
Distance		15cm					
EUT Side	Left	Left Right Top Bottom					
Max H-field (uT)	0.221	0.22	0.217	0.228	0.231		
Max H-field (A/m)	0.176	0.176 0.175 0.173 0.182					
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.454	-1.455	-1.457	-1.448	-1.446		
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815		
50% Margin (A/m)	-0.639	-0.640	-0.642	-0.633	-0.631		

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

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Mode 3: Operating with iPhone 13 Pro 50% Charger

mode of operating that it follows to the object of the got							
E-Field Measurement							
Distance		15cm					
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	2.51	2.51 2.56 2.84 2.71					
Limit (V/m)	614	614 614 614					
Margin (V/m)	-611.49	-611.49 -611.44 -611.16 -611.29					
50% Limit (V/m)	307	307 307 307 307					
50% Margin (V/m)	-304.49	-304.44	-304.16	-304.29	-305.26		

H-Field Measurement							
Distance		15cm					
EUT Side	Left	Left Right Top Bottom					
Max H-field (uT)	0.219	0.215	0.204	0.216	0.223		
Max H-field (A/m)	0.174	0.174 0.171 0.162 0.172					
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.456	-1.459	-1.468	-1.458	-1.452		
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815		
50% Margin (A/m)	-0.641	-0.644	-0.653	-0.643	-0.637		

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Mode 4: Operating with iPhone 13 Pro 90% Charger

Widde 4: Operating With It holle 10 110 30 % Onlarger							
E-Field Measurement							
Distance		15cm					
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	2.42	2.42 2.49 2.72 2.6					
Limit (V/m)	614	614 614 614 614					
Margin (V/m)	-611.58	-611.58 -611.51 -611.28 -611.4					
50% Limit (V/m)	307 307 307 30						
50% Margin (V/m)	-304.58	-304.51	-304.28	-304.4	-305.38		

H-Field Measurement						
Distance		15cm				
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.212	0.21	0.202	0.209	0.215	
Max H-field (A/m)	0.169	0.169 0.167 0.161 0.166				
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.461	-1.463	-1.469	-1.464	-1.459	
50% Limit (A/m)	0.815 0.815 0.815 0.815					
50% Margin (A/m)	-0.646	-0.648	-0.654	-0.649	-0.644	

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

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3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (FCC MPE Test Photo).

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