

## 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                             | Wireless Charging                                                                                  |
| Brand Name                          | <b>NXT</b>                                                                                         |
| Model                               | NX60454-CC                                                                                         |
| Additional Model & Model Difference | NX60454-US; See item 1.1                                                                           |
| Date of tests                       | Oct. 23, 2021                                                                                      |

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

- ☒ **47 CFR PART 1, Subpart I, Section 1.1310**
- ☒ **KDB 680106 D01**

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

|                                                                                     |                                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Tested by Lucas Chen<br>Project Engineer / EMC Department                           | Approved by Glyn He<br>Assistant Manager / EMC Department                                                       |
|  | <br><br>Data: Dec. 07, 2021 |

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## RELEASE CONTROL RECORD

| ISSUE NO.     | REASON FOR CHANGE | DATE ISSUED   |
|---------------|-------------------|---------------|
| FM2109WDG0095 | Original release  | Dec. 07, 2021 |

## 1. GENERAL INFORMATION

### 1.1. GENERAL DESCRIPTION OF EUT

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| <b>FCC ID</b>                    | A4X-NX60454-US                                         |
| <b>PRODUCT</b>                   | Wireless Charging                                      |
| <b>MODEL NO.</b>                 | NX60454-CC                                             |
| <b>ADDITIONAL MODEL</b>          | NX60454-US                                             |
| <b>SAMPLE STATUS</b>             | Engineering sample                                     |
| <b>POWER SUPPLY</b>              | Input: 5V/2A, 9V/2A, 12V/1.5A<br>Output: 5W, 7.5W, 10W |
| <b>MODULATION TECHNOLOGY</b>     | FSK                                                    |
| <b>OPERATING FREQUENCY RANGE</b> | 111KHz ~ 205KHz                                        |
| <b>ANTENNA TYPE</b>              | Coil Antenna                                           |
| <b>I/O PORTS</b>                 | Refer to user's manual                                 |
| <b>CABLE SUPPLIED</b>            | USB-A to USB-C Cable:1.8m, Shielded, 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.: 2109WDG0095-1) for detailed product photo.
4. The EUT was powered by the following adapter:

| ADAPTER |                                     |
|---------|-------------------------------------|
| BRAND:  | N/A                                 |
| MODEL:  | W0920U-1U05F                        |
| INPUT:  | 100-240VAC 50/60Hz 0.45A            |
| OUTPUT: | 3.6V~6.0V/3A, 6V~9V/2A, 9V~12V/1.5A |

## 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<br>(MHz)                                       | Electric field<br>strength<br>(V/m) | Magnetic field<br>strength<br>(A/m) | Power density<br>(mW/cm <sup>2</sup> ) | Averaging time<br>(minutes) |
|----------------------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|-----------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                                     |                                     |                                        |                             |
| 0.3–3.0 .....                                                  | 614                                 | 1.63                                | *(100)                                 | 6                           |
| 3.0–30 .....                                                   | 1842/f                              | 4.89/f                              | *(900/f <sup>2</sup> )                 | 6                           |
| 30–300 .....                                                   | 61.4                                | 0.163                               | 1.0                                    | 6                           |
| 300–1500 .....                                                 | .....                               | .....                               | f/300                                  | 6                           |
| 1500–100,000 .....                                             | .....                               | .....                               | 5                                      | 6                           |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                                     |                                     |                                        |                             |
| 0.3–1.34 .....                                                 | 614                                 | 1.63                                | *(100)                                 | 30                          |
| 1.34–30 .....                                                  | 824/f                               | 2.19/f                              | *(180/f <sup>2</sup> )                 | 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

\* = 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 exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

### Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

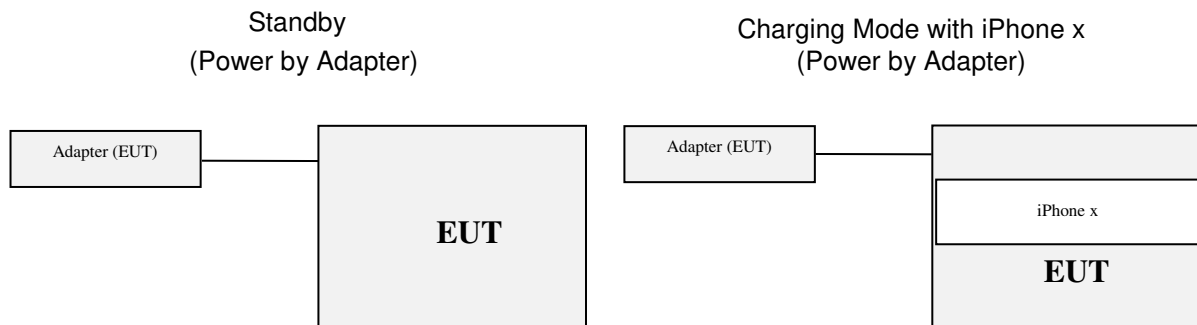
The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

### 2.2 DESCRIPTION OF SUPPORT UNITS

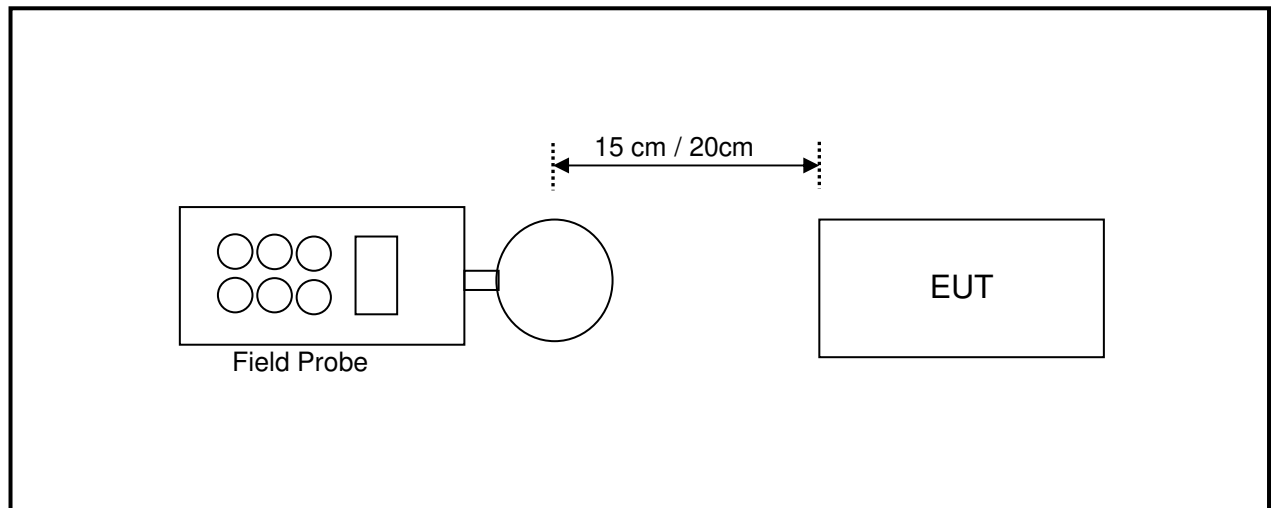
The EUT has been tested with associated equipment below

| NO. | PRODUCT  | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|----------|-------|-----------|------------|--------|
| 1   | iPhone X | Apple | MQA52CH/A | N/A        | N/A    |

## 2.3 CONFIGURATION OF SYSTEM UNDER TEST



## 2.4 TEST SETUP FOR WPT



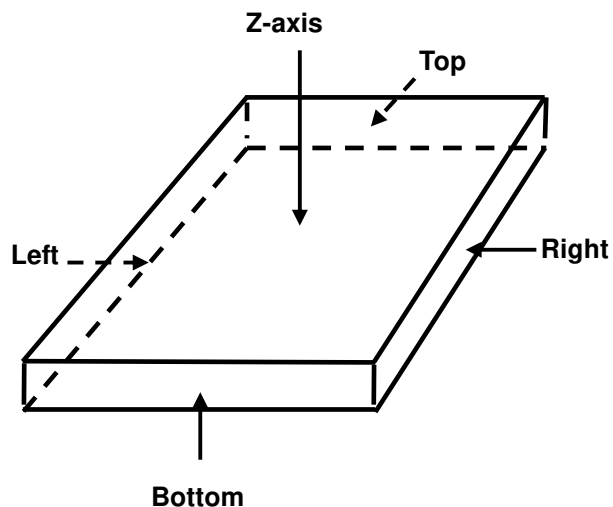
Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

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**.

**2.5 EQUIPMENTS USED DURING TEST**

| Item | Test Equipment              | Manufacturer | Model No. | Frequency Range | Next Cal.  |
|------|-----------------------------|--------------|-----------|-----------------|------------|
| 1    | 3m Semi-Anechoic Chamber    | ETS-LINDGREN | 7m*4m*3m  | NSEMC003        | 2022-03-19 |
| 2    | Narda Broadband Field Meter | Narda        | NBM-520   | 100KHz-90GHz    | 2021-12-23 |
| 3    | E-Field probe               | Narda        | EF0691    | 100KHz-6GHz     | 2021-12-23 |
| 4    | Exposure Level Tester       | Narda        | ELT-400   | 1Hz-400KHz      | 2021-12-23 |

**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.

**2.6 TEST POINT DESCRIPTION**

## 2.7 TEST RESULTS

### Mode 1 Standby

| E-Field Measurement |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|
| Distance            | 15cm    |         |         |         | 20cm    |
| EUT Side            | Left    | Right   | Top     | Bottom  | Z-axis  |
| Max E-field (V/m)   | 0.68    | 0.75    | 0.59    | 0.49    | 0.53    |
| Limit (V/m)         | 614     | 614     | 614     | 614     | 614     |
| Margin (V/m)        | -613.32 | -613.25 | -613.41 | -613.51 | -613.47 |
| 50% Limit (V/m)     | 307     | 307     | 307     | 307     | 307     |
| 50% Margin (V/m)    | -306.32 | -306.25 | -306.41 | -306.51 | -306.47 |

| H-Field Measurement |        |        |        |        |        |
|---------------------|--------|--------|--------|--------|--------|
| Distance            | 15cm   |        |        |        | 20cm   |
| EUT Side            | Left   | Right  | Top    | Bottom | Z-axis |
| Max H-field (uT)    | 0.221  | 0.223  | 0.228  | 0.236  | 0.276  |
| Max H-field (A/m)   | 0.176  | 0.178  | 0.182  | 0.188  | 0.220  |
| Limit (A/m)         | 1.63   | 1.63   | 1.63   | 1.63   | 1.63   |
| Margin (A/m)        | -1.454 | -1.452 | -1.448 | -1.442 | -1.410 |
| 50% Limit (A/m)     | 0.815  | 0.815  | 0.815  | 0.815  | 0.815  |
| 50% Margin (A/m)    | -0.639 | -0.637 | -0.633 | -0.627 | -0.595 |

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 x 10% Charger

| E-Field Measurement |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|
| Distance            | 15cm    |         |         |         | 20cm    |
| EUT Side            | Left    | Right   | Top     | Bottom  | Z-axis  |
| Max E-field (V/m)   | 0.65    | 1.09    | 0.79    | 0.89    | 0.56    |
| Limit (V/m)         | 614     | 614     | 614     | 614     | 614     |
| Margin (V/m)        | -613.35 | -612.91 | -613.21 | -613.11 | -613.44 |
| 50% Limit (V/m)     | 307     | 307     | 307     | 307     | 307     |
| 50% Margin (V/m)    | -306.35 | -305.91 | -306.21 | -306.11 | -306.44 |

| H-Field Measurement |        |        |        |        |        |
|---------------------|--------|--------|--------|--------|--------|
| Distance            | 15cm   |        |        |        | 20cm   |
| EUT Side            | Left   | Right  | Top    | Bottom | Z-axis |
| Max H-field (uT)    | 0.231  | 0.23   | 0.228  | 0.228  | 0.231  |
| Max H-field (A/m)   | 0.184  | 0.183  | 0.182  | 0.182  | 0.184  |
| Limit (A/m)         | 1.63   | 1.63   | 1.63   | 1.63   | 1.63   |
| Margin (A/m)        | -1.446 | -1.447 | -1.448 | -1.448 | -1.446 |
| 50% Limit (A/m)     | 0.815  | 0.815  | 0.815  | 0.815  | 0.815  |
| 50% Margin (A/m)    | -0.631 | -0.632 | -0.633 | -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.

**Mode 3: Operating with iPhone x 50% Charger**

| E-Field Measurement |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|
| Distance            | 15cm    |         |         |         | 20cm    |
| EUT Side            | Left    | Right   | Top     | Bottom  | Z-axis  |
| Max E-field (V/m)   | 0.69    | 0.89    | 0.96    | 0.72    | 0.54    |
| Limit (V/m)         | 614     | 614     | 614     | 614     | 614     |
| Margin (V/m)        | -613.31 | -613.11 | -613.04 | -613.28 | -613.46 |
| 50% Limit (V/m)     | 307     | 307     | 307     | 307     | 307     |
| 50% Margin (V/m)    | -306.31 | -306.11 | -306.04 | -306.28 | -306.46 |

| H-Field Measurement |        |        |        |        |        |
|---------------------|--------|--------|--------|--------|--------|
| Distance            | 15cm   |        |        |        | 20cm   |
| EUT Side            | Left   | Right  | Top    | Bottom | Z-axis |
| Max H-field (uT)    | 0.229  | 0.229  | 0.231  | 0.232  | 0.229  |
| Max H-field (A/m)   | 0.182  | 0.182  | 0.184  | 0.185  | 0.182  |
| Limit (A/m)         | 1.63   | 1.63   | 1.63   | 1.63   | 1.63   |
| Margin (A/m)        | -1.448 | -1.448 | -1.446 | -1.445 | -1.448 |
| 50% Limit (A/m)     | 0.815  | 0.815  | 0.815  | 0.815  | 0.815  |
| 50% Margin (A/m)    | -0.633 | -0.633 | -0.631 | -0.630 | -0.633 |

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 x 90% Charger**

| E-Field Measurement |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|
| Distance            | 15cm    |         |         |         | 20cm    |
| EUT Side            | Left    | Right   | Top     | Bottom  | Z-axis  |
| Max E-field (V/m)   | 0.66    | 0.92    | 0.93    | 1.02    | 0.56    |
| Limit (V/m)         | 614     | 614     | 614     | 614     | 614     |
| Margin (V/m)        | -613.34 | -613.08 | -613.07 | -612.98 | -613.44 |
| 50% Limit (V/m)     | 307     | 307     | 307     | 307     | 307     |
| 50% Margin (V/m)    | -306.34 | -306.08 | -306.07 | -305.98 | -306.44 |

| H-Field Measurement |        |        |        |        |        |
|---------------------|--------|--------|--------|--------|--------|
| Distance            | 15cm   |        |        |        | 20cm   |
| EUT Side            | Left   | Right  | Top    | Bottom | Z-axis |
| Max H-field (uT)    | 0.229  | 0.229  | 0.231  | 0.229  | 0.234  |
| Max H-field (A/m)   | 0.182  | 0.182  | 0.184  | 0.182  | 0.186  |
| Limit (A/m)         | 1.63   | 1.63   | 1.63   | 1.63   | 1.63   |
| Margin (A/m)        | -1.448 | -1.448 | -1.446 | -1.448 | -1.444 |
| 50% Limit (A/m)     | 0.815  | 0.815  | 0.815  | 0.815  | 0.815  |
| 50% Margin (A/m)    | -0.633 | -0.633 | -0.631 | -0.633 | -0.629 |

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.

### 3. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

--- END ---