

#### **FCC RF EXPOSURE REPORT**

For

**NA Zigbee Smart Plug** 

**MODEL NUMBER: 6B-PL-Z-A0** 

FCC ID: 2AB2Q6BPLZA0

REPORT NUMBER: 4788672483-2

ISSUE DATE: September 27, 2018

## Prepared for

LEEDARSON LIGHTING CO., LTD.
XINGDA RD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY, ZHANGZHOU,
FUJIAN, 363900, CHINA

Prepared by

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## 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: LEEDARSON LIGHTING CO., LTD.

Address: XINGDA RD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY, ZHANGZHOU, FUJIAN, 363900, CHINA

**Manufacturer Information** 

Company Name: LEEDARSON LIGHTING CO., LTD.

Address: Xingtai Industrial Zone, Economic Development Zone, Changtai

County, Zhangzhou City, Fujian Province, P.R.China

EUT Name: NA Zigbee Smart Plug

Model: 6B-PL-Z-A0
Brand: LEEDARSON
Sample Received Date: September 13

Date Tested: September 14~25, 2018

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC 47CFR§2.1091 Pass

KDB-447498 D01 V06

Tested Bv:	Checked Bv:

kebo. zhang. Shemmelien

Kebo Zhang Shawn Wen Engineer Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager

Sephenbuo

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#### 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

### 3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.  FCC (FCC Designation No.: CN1187)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
Accreditation Certificate	Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules  IC(Company No.: 21320)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320.  VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.  Facility Name:			
	Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011			

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

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## 4. REQUIREMENT

#### LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	ength (E) Strength (H)		Averaging Time $ E ^2$ , $ H ^2$ or S (minutes)			
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/150	30			
1500-100,000			1.0	30			

Note 1: f = frequency in MHz, \* means Plane-wave equivalent power density

Note 2: 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 cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm<sup>2</sup> is available for this EUT.

#### **MPE CALCULATION METHOD**

 $S = PG/(4\pi R^2)$ 

where: S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

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# **CALCULATED RESULTS**

Radio Frequency Radiation Exposure Evaluation

ZigBee (Worst case)							
Frequency	Max. Tune up Power		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	
2475	14	25.12	1.73	1.49	0.0074	1	Complies

Note: the calculated distance is 20cm.

## **END OF REPORT**