



# RF EXPOSURE EVALUATION

**FCC ID** : 2ASF2-KTA03E  
**Product** : Smart table device  
**Trademark** : N/A  
**Model Name** : KT-A03E  
**Applicant** : Shenzhen Linklite Smart Lighting Co.,Ltd  
**Date of Issue** : Aug.05, 2020  
**Report No** : S20082604102001-01

## Prepared for

Shenzhen Linklite Smart Lighting Co.,Ltd  
4th floor, 3 building, Yangbei industrial park 1st phase, Huangtian, Hangcheng street,  
Bao'an district, Shenzhen 518126,China

## Prepared by

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## TEST RESULT CERTIFICATION

**Applicant's name**.....: Shenzhen Linklite Smart Lighting Co.,Ltd  
4th floor, 3 building, Yangbei industrial park 1st phase,  
**Address**.....: Huangtian, Hangcheng street, Bao'an district, Shenzhen  
518126,China  
**Manufacturer's Name**.....: Shenzhen Linklite Smart Lighting Co.,Ltd  
4th floor, 3 building, Yangbei industrial park 1st phase,  
**Address**.....: Huangtian, Hangcheng street, Bao'an district, Shenzhen  
518126,China  
**Product description**  
**Product name**.....: Smart table device  
**Trademark** .....: N/A  
**Model and/or type reference** ....: KT-A03E  
**Family Model**.....: N/A  
**Rating(s)**.....: Input: AC100-240V 50/60Hz 0.3A or DC 5V 2.0A

**Date of Test**..... :

Date (s) of performance of tests.....: July. 23, 2020 to Aug.05, 2020

Date of Issue.....: Aug.05, 2020

Test Result.....: **Pass**

Testing Engineer

:

Leo.Zhu

(Leo.Zhu)

Technical Manager

:

Eder.Zhan

(Eder.Zhan)

Authorized Signatory

:

Wetow Huang

(Wetow Huang)

## 1. PRODUCT INFORMATION

Product name	Smart table device
Model Name	KT-A03E
FCC ID	2ASF2-KTA03E

## 2. EVALUATION METHOD

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

### LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (Minutes)
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

\*Note:

1. f= Frequency in MHz \* Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

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

Where:

S=power density

P=power input to antenna

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

### 3. CALCULATION

A minimum test separation distance  $\geq 20$  cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20 cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

Antenna Gain=1.0dBi (Numeric 1.26),  $\pi=3.14$

Frequency band	Max output power (dBm)	Tune-up power (dBm)	Power density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462MHz	12	13	0.004	1