

# RF Exposure Evaluation Report

**Applicant:** DeTong Electronic Technology (Shanghai) Co., Ltd.

**Address of Applicant:** Room 1001-16, No.323,GuoDing Road,YangPu Area Shanghai

**Equipment Under Test (EUT)**

Product Name: Printer

Model No.: YINLIFUN, DP23S, DP30S, DT60S, DT-280, DT270

Trade mark: Detonger

**FCC ID:** 2AW9P-YINLIFUN

**Applicable standards:** FCC CFR Title 47 Part 2 Subpart J Section 2.1093

**Date of sample receipt:** 02 Sep., 2020

**Date of Test:** 02 Sep., to 17 Sep., 2020

**Date of report issue:** 18 Sep., 2020

**Test Result:** PASS\*

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Version

Version No.	Date	Description
00	18 Sep., 2020	Original

Tested by: Mike.ou  
Test Engineer

Date: 18 Sep., 2020

Reviewed by: Winner Zhang  
Project Engineer

Date: 18 Sep., 2020

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## 4 General Information

### 4.1 Client Information

Applicant:	DeTong Electronic Technology (Shanghai) Co., Ltd.
Address:	Room 1001-16, No.323, GuoDing Road, YangPu Area Shanghai
Manufacturer/Factory:	DeTong Electronic Technology (Shanghai) Co., Ltd.
Address:	Room 1001-16, No.323, GuoDing Road, YangPu Area Shanghai
Factory:	DeTong Electronic Technology (Jiangsu) Co., Ltd.
Address:	4 Floor 18# No.27 Jinxing Road Jinfeng District Zhangjiagang City

### 4.2 General Description of E.U.T.

Product Name:	Printer
Model No.:	YINLIFUN, DP23S, DP30S, DT60S, DT-280, DT270
Operation Frequency:	Bluetooth/ BLE: 2402MHz~2480MHz
Modulation technology:	Bluetooth BDR /BLE: GFSK
Antenna Type:	PCB Antenna
Antenna gain:	BT/ BLE: 2.0 dBi
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 4.3 Operating Modes

Operating mode	Detail description
BLE mode	Keep the EUT in continuously transmitting in BLE mode
BT mode	Keep the EUT in continuously transmitting in BT mode

### 4.4 Additions to, deviations, or exclusions from the method

No
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## 4.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 4.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: [info@ccis-cb.com](mailto:info@ccis-cb.com), Website: <http://www.ccis-cb.com>

## 5 Technical Requirements Specification in FCC CFR Title 47 Part 2.1093

### 5.1 Limits

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

### 5.2 Result

Worse case for BLE as below:

[2480MHz: 4.191dBm (2.62 mW) output power]  
(2.62 mW /5mm)  $\cdot [\sqrt{2.480 (\text{GHz})}] = 0.827 < 3.0$  for 1-g SAR

Worse case for BT as below:

[2480MHz: 4.159dBm (2.61 mW) output power]  
(2.61 mW /5mm)  $\cdot [\sqrt{2.480 (\text{GHz})}] = 0.821 < 3.0$  for 1-g SAR

### 5.3 Conclusion

The device is exempt from the RF exposure evaluation.

-----End of report-----