




# FCC RF EXPOSURE REPORT

Applicant : ADESSO INC.  
Address : 20659 Valley BLVD. Walnut, CA 91789  
Manufacturer : ADESSO ELECTRONICS INC.  
Address : No.5,ChengDa East St.,Xiangang  
Community,Changan,DongGuan,China  
Equipment : Wireless Thermal Printer  
Model No. : NuPrint 320B, NuPrint 200B, NuPrint 210B, NuPrint 220B,  
NuPrint 230B, NuPrint 240B, NuPrint 250B, NuPrint 260B,  
NuPrint 270B, NuPrint 280B, NuPrint 290B, NuPrint 300B,  
NuPrint 310B, NuPrint 330B, NuPrint 340B, NuPrint 350B,  
NuPrint 360B, NuPrint 370B, NuPrint 380B, NuPrint 390B,  
NuPrint 400B, NuPrint 410B, NuPrint 420B, NuPrint 430B,  
NuPrint 440B, NuPrint 450B, NuPrint 460B, NuPrint 470B,  
NuPrint 480B, NuPrint 490B  
Trade Mark : Adesso/Gyration  
FCC ID : 2ACFQ-320B

**I HEREBY CERTIFY THAT :**

The sample was received on May. 17, 2023 and the testing was completed on Aug. 14, 2023 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

  
\_\_\_\_\_  
Leevin Li /Supervisor



## Contents

<b>1. Test Configuration of Equipment under Test</b> .....	<b>4</b>
1.1 Feature of Equipment.....	4
1.2 General Information of Test.....	5
<b>2. Radio Frequency Exposure</b> .....	<b>6</b>
2.1 Applicable Standards .....	6
2.2 Limit.....	6
2.3 Test Results.....	6



### History of this test report

Original

Additional attachment as following record:

Attachment No.	Issue Date	Description
DEFJ2304035	Aug. 16, 2023	Original



# 1. Test Configuration of Equipment under Test

## 1.1 Feature of Equipment

Equipment	Wireless Thermal Printer
Model Name	NuPrint 320B, NuPrint 200B, NuPrint 210B, NuPrint 220B, NuPrint 230B, NuPrint 240B, NuPrint 250B, NuPrint 260B, NuPrint 270B, NuPrint 280B, NuPrint 290B, NuPrint 300B, NuPrint 310B, NuPrint 330B, NuPrint 340B, NuPrint 350B, NuPrint 360B, NuPrint 370B, NuPrint 380B, NuPrint 390B, NuPrint 400B, NuPrint 410B, NuPrint 420B, NuPrint 430B, NuPrint 440B, NuPrint 450B, NuPrint 460B, NuPrint 470B, NuPrint 480B, NuPrint 490B
Model Discrepancy	All the models are electrical identical including PCB Layout, etc. The only difference is color and tooling. Model NuPrint 320B was chosen for final test.
Operation Frequency Range	BT/ BLE: 2400-2483.5MHz
Center Frequency Range	BT/ BLE: 2402-2480MHz
Modulation Type	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK
Data Rate	BT: GFSK:1Mbps, $\pi/4$ -DQPSK: 2Mbps, 8DPSK:3Mbps BLE: GFSK: 1Mbps, 2Mbps
Antenna Type	PCB Antenna
Antenna Gain	2.07dBi
Working Temperature	0°C to +50°C
EUT Power Rating	Adapter: MODEL: KA1201A-0901000US INPUT: 100-240V~50/60Hz 0.4A Max OUTPUT: 9V=1000mA Battery: Battery Capacity: 2600mAh / 7.4V 19.24Wh Limited Charge Voltage: 8.4V

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



**1.2 General Information of Test**

Test Site	<b>CerpPASS Technology Corporation(CerpPASS Laboratory)</b> Address: Room 102, No. 5, Xing'an Road, Chang'an Town, Dongguan City, Guangdong Province Tel: +86-769-8547-1212 Fax: +86-769-8547-1912
FCC Designation No.:	CN1288



## 2. Radio Frequency Exposure

### 2.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1093)

### 2.2 Limit

KDB 447498 D01 General RF Exposure Guidance v06 § 4.3(a)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

\*f(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

\*The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion

### 2.3 Test Results

According to the KDB447498:

The SAR test exclusion thresholds Level:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \text{sqrt}(\text{freq. in GHz}) < 3$

Calculation

#### Bluetooth BR/EDR

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Max. Tune up power (mW)	Distance (mm)	SAR test exclusion thresholds (mW)
2402-2480	-4.910	-2.910	0.512	5	10.00



Bluetooth LE

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Max. Tune up power (mW)	Distance (mm)	SAR test exclusion thresholds (mW)
2402-2480	1.380	3.380	2.178	5	10.00

Then SAR evaluation is not required

-----THE END OF REPORT-----