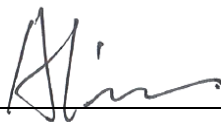


RF EVALUATION TEST REPORT

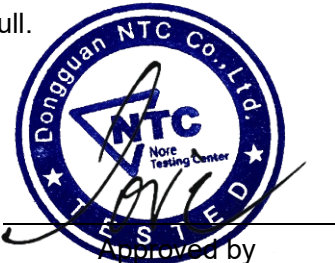
Applicant..... : Xiamen Lujiang Technology Co., Ltd
Address..... : Room 601-2, No.63-1, Wanghai Road, Software Park Phase II, Torch Hi-Tech
Zone, Xiamen China
Manufacturer..... : Xiamen Lujiang Technology Co., Ltd
Address..... : Room 601-2, No.63-1, Wanghai Road, Software Park Phase II, Torch Hi-Tech
Zone, Xiamen China
Factory..... : Xiamen Hanin Co.,Ltd.
Address..... : No.96, Rongyuan Road, Tong'an District, Xiamen, China 361100
Product Name..... : Thermal Receipt Printer
Brand Name..... : N/A
Model No. : AL2 (For additional models and model difference refer to section 2.)
FCC ID..... : 2A74A-AL2
Measurement Standard..... : 47 CFR PART 2, Section 2.1093
Receipt Date of Samples..... : May 16, 2025
Date of Tested..... : May 26, 2025 to June 02, 2025
Date of Report..... : June 05, 2025

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.



Prepared by

Alina Guo / Project Engineer



TESTED
AUTHORIZED by

Iori Fan / Authorized Signatory

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Revision History

Report Number	Description	Issued Date
NTC2505188F01	Initial Issue	2024-06-05

1. General Description of EUT

Product Information	
Product Name:	Thermal Receipt Printer
Main Model Name:	AL2
Additional Model Name:	AL2PRO, AL2S, AL2H, AL3, AL3H, AL3S, AL3PRO
Model difference:	These models have the same circuit schematic, structure, PCB Layout and critical components. The differences are model number and color due to trading purpose.
S/N:	2504-2661
Brand Name:	N/A
Hardware Version:	HM-A200U-MBA
Software Version:	HM-A200U-MBA_V1
Rating:	DC 5V 1A come from adapter; DC 3.7V come from li-ion battery
Typical Arrangement:	Tabletop
I/O Port:	Refer to the user manual
Accessories Information	
Adapter	N/A
Cable:	USB line: 1.00m, shielded, detachable
Other:	N/A
Additional Information	
Note:	According to the model differences and manufacturer's requirements, all tests were performed on model AL2.
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK for BDR/EDR GFSK for BLE
Number of Channel:	79 for BDR/EDR 40 for BLE
Channel Space:	1MHz for BDR/EDR 2MHz for BLE
Antenna Type:	PCB Antenna
Number of Antenna	1
Antenna Gain:	-3.77 dBi (Declared by manufacturer)

2. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	<p>The Laboratory has been assessed and proved to be in compliance with CNAS/CL01</p> <p>Listed by CNAS, August 13, 2018</p> <p>The Certificate Registration Number is L5795.</p> <p>The Certificate is valid until August 13, 2024</p> <p>The Laboratory has been assessed and proved to be in compliance with ISO17025</p> <p>Listed by A2LA, November 01, 2017</p> <p>The Certificate Registration Number is 4429.01</p> <p>The Certificate is valid until December 31, 2025</p> <p>Listed by FCC, November 06, 2017</p> <p>Test Firm Registration Number: 907417</p> <p>Listed by Industry Canada, June 08, 2017</p> <p>The Certificate Registration Number. Is 46405-9743A</p> <p>The CAB identifier number: CN0015</p>
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China

3. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 1, 1.1307
47 CFR Part 2, 2.1093
KDB 447498 D04 v01

4. Maximum Permissible Exposure Limit

According to 47 CFR Part 1, 1.1307, for single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if: 47 CFR Part 1, 1.1307

(A) The available maximum time- averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time- averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where,

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

And,

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the minimum separation distance (cm) in any direction from any part of the device antenna(s) or radiating structure(s) to the body of the device user.

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time- averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where,

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for P_{th} , including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$ = the exemption threshold power (P_{th}) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i .

ERP_j = the ERP of fixed, mobile, or portable RF source j .

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j , at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure\ Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from §1.1310 of this chapter.

5. RF Exposure Evaluation Results

Single RF Source						
Mode	Frequency (MHz)	Max. Conducted Power (dBm)	Antenna Gain (dBi)	Max. EIRP (dBm)	Max. Power (mW)	Part 1.1307 Option (A) P_{th} (mW)
GFSK	2402	-6.07	-3.77	-9.840	0.25	1
	2441	-6.33	-3.77	-10.100	0.23	1
	2480	-6.58	-3.77	-10.350	0.22	1
$\pi/4$ -DQPSK	2402	-5.55	-3.77	-9.320	0.28	1
	2441	-5.73	-3.77	-9.500	0.27	1
	2480	-6.06	-3.77	-9.830	0.25	1
8DPSK	2402	-5.16	-3.77	-8.930	0.30	1
	2441	-5.55	-3.77	-9.320	0.28	1
	2480	-5.64	-3.77	-9.410	0.27	1
BLE	2402	-4.423	-3.77	-8.193	0.36	1
	2440	-4.625	-3.77	-9.840	0.34	1
	2480	-4.681	-3.77	-8.451	0.34	1

Conclusion:

According to 47 CFR §1.1307 option A, the RF exposure analysis concludes that the product is compliant with the FCC RF exposure requirements in portable exposure condition.

---End---