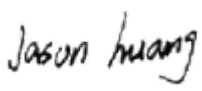
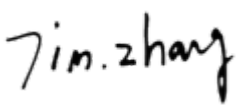
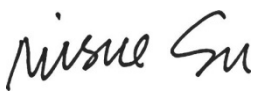
FCC RF EXPOSURE REPORT

FCC ID: 2AUTE-IF4

Test Report No……..:	RF240615019-01-006
Product(s) Name……...:	Thermal Transfer Barcode Printer
Model(s)……..:	iF4, iF4 Plus, iH4, iH400, FT400, FT430, XT400, XT430, SF400, SF430, NF400, NT430, EF400, EF430, JF400, JF430, Y40, Y43, SF401, SF603, NF400, J400, J403, Y401, Y403, iF400, iF430, X400, X430, D400, D430, T400, T430, iF888, FT888, F8, F400, F430, JT400, ST400
Trade Mark……....:	iDPRT
Applicant……..:	Xiamen Hanin Co., Ltd.
Address……..…...:	Room 305A, Angye Building, Pioneering Park, Torch High-tech, Zone, Xiamen
Receipt Date……..:	2024.07.22
Test Date……....:	2024.09.08~2024.09.14
Issued Date……..…:	2024.09.20
Standards……..:	FCC Guidelines for Human Exposure IEEE C95.1 FCC Title 47 Part 2.1091 KDB 447498 D01 General RF Exposure Guidance v06
Testing Laboratory……:	Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Tim Zhang	Misue Su	
			

History of this test report

Original Report Issue Date: 2024.09.20

● No additional attachment

○ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1.. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the 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

Table for Filed Antenna

For BLE_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	2.72 dBi	PIFA antenna

For 2.4GHz_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	2.72 dBi	PIFA antenna

2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm^2)	
BLE	2402-2480	-1.12	2.72	1.6	1.45	1	0.0003
2.4G Wifi	2412-2462	22.03	2.72	24.75	298.54	1	0.0594

Note: 1. The calculated distance is 20 cm.
2. the wifi function can transmit at the same time with the BLE function.

The ratio= $MPE_{2.4G\ Wifi}$ /limit+ MPE_{BLE} /limit =0.0003/1+0.0594/1=0.0597<1.0

As the sum of MPE ratios for all simultaneous transmitting antennas is ≤ 1.0, simultaneous transmission MPE test exclusion will be applied.

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).

2. The report is invalid without the signature of the approver.

3. The report is invalid if altered arbitrarily.

4. The report shall not be partially copied without the written approval of the unit.

5. The reported test results are only valid for the tested samples.

6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technology Co., Ltd.

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(END OF REPORT)