



TEST REPORT

No.I22N01936-MPE

For

Shanghai Sunmi Technology Co., Ltd.

Cloud POS Priter

Model Name: NT311

With

Hardware Version: V2.0

Software Version: FW3.0.3 & APP 3.0.3

FCC ID: 2AH25NT311S

Issued Date: 2022-10-20

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
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1. Summary of Test Report

1.1. Test Items

Description: Cloud POS Priter
Model Name: NT311
Applicant's Name: Shanghai Sunmi Technology Co., Ltd.
Manufacturer's Name: Shanghai Sunmi Technology Co., Ltd.

1.2. Test Standards

FCC Part 2 (Section 2.1091 and 1.1310), 447498 D03 Supplement C Cross-Reference v01,
IEEE C95.1:1992

1.3. Test Result

Pass

1.4. Testing Location

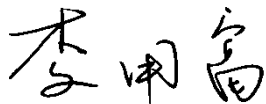
Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project Data


Testing Start Date: 2022-10-20

Testing End Date: 2022-10-20

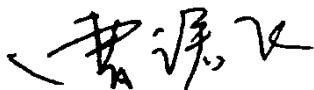
1.6. Signature



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(Prepared this test report)



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(Reviewed this test report)



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(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name:	Shanghai Sunmi Technology Co., Ltd.
Address:	Room 505, NO.388 Song Hu Road, Yang Pu District, Shanghai 200433, China
City:	Shanghai
Country:	China
Telephone:	+86 13510126210

2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co., Ltd.
Address:	Room 505, NO.388 Song Hu Road, Yang Pu District, Shanghai 200433, China
City:	Shanghai
Country:	China
Telephone:	+86 13510126210



3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description:	Cloud POS Priter
Model name:	NT311
Condition of EUT as received:	No obvious damage in appearance
Frequency Bands:	Bluetooth, WLAN 2.4GHz
Tx Frequency:	2402 – 2480MHz (Bluetooth)
	2412 – 2462MHz (WLAN 2.4GHz)

4. Test Methodology

FCC Part 2 (Section 2.1091 and 1.1310)
447498 D03 Supplement C Cross-Reference v01
IEEE C95.1:1992

5. General Description

5.1. Evaluation Distance

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

5.2. Evaluation Method

Evaluation Method

$$P_d = (P_{out} * G) / (4 * \pi * R^2)$$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

Co-transmitting Evaluation Method

Conclusion:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density



6. Assessment Result

6.1. Reference Levels Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz
 * = Plane-wave equivalent power density

6.2. Reference Levels Evaluation

Frequency Band	Maximum gain (dBi)	Tune-up Power (dBm)
Bluetooth	2.30	7.00
WLAN 2.4GHz	2.30	14.00

Power Density Calculations				
Evaluation Mode	Maximum E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Conclusion
Bluetooth	8.51	0.002	1.0	Pass
WLAN 2.4GHz	42.66	0.008	1.0	Pass

Conclusion: According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

END OF REPORT