



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR241100045803
Rev.: 01
Page: 1 of 6

TEST REPORT

Application No.: SUCR2411000458AT
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
EUT Description: Separate Monitor
Model No.: NP521, NP522-----♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: SUNMI
FCC ID: 2AH25NP52
Standards: FCC 47 CFR Part 1.1307
FCC 47 CFR Part 1.1310
FCC KDB 447498 D01 v06
Date of Receipt: November 14, 2024
Date of Issue: January 2, 2025

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Hayley Zhang

Cloud Peng

Prepared by: Hayley Zhang/ Project Manager

Approved by : Cloud Peng/ Technical Manager

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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		January 2, 2025		Original

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2 General Information

2.1 Client Information

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China

2.2 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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2.3 General Description of EUT

EUT Description:	Separate Monitor
Model No.:	NP521, NP522
Trade Mark:	SUNMI
Hardware Version:	USBLCD_MB2_V2.0
Software Version:	1.0.0
Power Supply:	24V
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Internal Antenna
Remark: 1. As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. 2. The difference between the two models is only in size, with NP522 measuring 15.6 inches and NP521 measuring 10.1 inches, everything else is exactly the same.	

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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be evaluated as below,

For test separation distances ≤ 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ where f is 13.56MHz

The power threshold in 4.3.1 b) is $[\text{Power allowed at numeric threshold for 50 mm in 4.3.1 a)} + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}]$, for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.

Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/\sqrt{f(\text{GHz})}] \cdot (\text{test separation distance})$

Hence, SAR test exclusion threshold is calculated in reverse sequence:

a): $[3/\sqrt{0.1}] \cdot 50 = 474.3416\text{mW}$

b): $474.3416 + (50-50) \cdot (100/150) = 474.3416\text{mW}$

c): $474.3416 \cdot [1 + \log(100/13.56)] = 885.9470\text{mW}$

d): $885.9470 \cdot 0.5 = 442.974\text{mW}$

So the SAR test exclusion power threshold for NFC(13.56MHz) is 442.974mW(equal to 26.464dBm).

3.1.2 Test Result

Also, the maximum power of NFC is -44.85dBm (converted from 50.35 dBuV/m at 3m) and it is far below the exclusion threshold (26.464dBm), so SAR test for NFC can be excluded.

---End of Report---

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