



TEST REPORT

REPORT NUMBER: I23W00036-MPE-FCC-Rev1

ON

Type of Equipment: POS System
Type of Designation: L15A1, L15B1
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Brand Name: SUNMI
FCC ID: 2AH25T3PRO

ACCORDING TO

**FCC CFR 47 Part 2.1091
KDB 447498 D04
IEEE C95.1-2019**

Chongqing Academy of Information and Communication Technology

Month date, year

Oct. 26, 2023

Signature

Xiang Luoyong

Director

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 Chongqing Academy of Information and Communications Technology.



Revision Version

Report Number	Revision	Date
I23W00036-MPE-FCC	00	2023-10-24
I23W00036-MPE-FCC-Rev1	01	2023-10-26
Note: This version has changed the section 3 and section 5.		

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1. Test Laboratory

1.1. Testing Location

Company Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
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1.2. Testing Environment

Normal Temperature:	--
Relative Humidity:	--

1.3. Project Data

Testing Start Date:	--
Testing End Date:	--

1.4. Signature



2023-10-26

Hu Bo
(Prepared this test report)

Date



2023-10-26

Yu Chun
(Reviewed this test report)

Date



2023-10-26

Xiang Luoyong
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Country:	CHINA
Telephone:	+86 17302160204
Fax:	--
Email:	minfei.chen@sunmi.com
Contact Person:	Chen Minfei

2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Country:	CHINA
Telephone:	+86 17302160204
Fax:	--
Email:	minfei.chen@sunmi.com
Contact Person:	Chen Minfei

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

3.1. About EUT

EUT Description:	POS System
Model name:	L15A1, L15B1
Brand name:	SUNMI
Frequency Band:	Wi-Fi 2.4G, Wi-Fi 5G U-NII-1/2A/2C/3, Wi-Fi 6G U-NII-5/6/7/8, BT, NFC
Type of modulation	Wi-Fi:DSSS,OFDM,OFDMA BT:GFSK, π /4-DQPSK,8DPSK NFC:ASK
Note: Photographs of EUT are shown in ANNEX A of this test report.	

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
--	--	6490Coreboard_MB_V2.0	1.0.0	2023-07-14

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

EUT ID*	SN	Description
--	--	--

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Applicable Standards

The MPE report was carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 2.1091.

FCC CFR 47 Part 2.1091: Radio frequency radiation exposure evaluation: mobile devices

KDB447498 D04: Interim General RF Exposure Guidance v01: RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

IEEE C95.1:2019: IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz.

Note: KDB 447498 D04 and FCC CFR 47 Part 2.1091 are not approved by A2LA.

4.2. Test Limits

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

MPE for the upper tier (people in controlled environments)

Frequency Range [MHz]	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100000	--	--	1.0	30

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

For the DUT, the limits for the general public when an RF safety program is unavailable.

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5. Test Results

5.1. Tune Up Power and Antenna Gain

Antenna	Frequency Band	Highest Averaged Tune Up Power(dBm)	Highest Frame-Averaged Tune Up Power (dBm)	Antenna Gain/Directional Antenna Gain (dBi)
ANT 1	BT	18.50	18.50	2.60
ANT 1	Wi-Fi 2.4G	20.50	20.50	2.60
ANT 1	Wi-Fi 5G U-NII-1	15.00	15.00	3.50
ANT 1	Wi-Fi 5G U-NII-2A	18.00	18.00	3.50
ANT 1	Wi-Fi 5G U-NII-2C	18.00	18.00	3.50
ANT 1	Wi-Fi 5G U-NII-3	18.00	18.00	3.50
ANT 1	Wi-Fi 6G U-NII-5	12.00	12.00	3.50
ANT 1	Wi-Fi 6G U-NII-6	12.00	12.00	3.50
ANT 1	Wi-Fi 6G U-NII-7	12.00	12.00	3.50
ANT 1	Wi-Fi 6G U-NII-8	10.00	10.00	3.50
ANT 2	Wi-Fi 2.4G	20.50	20.50	2.60
ANT 2	Wi-Fi 5G U-NII-1	15.00	15.00	3.50
ANT 2	Wi-Fi 5G U-NII-2A	18.00	18.00	3.50
ANT 2	Wi-Fi 5G U-NII-2C	18.00	18.00	3.50
ANT 2	Wi-Fi 5G U-NII-3	18.00	18.00	3.50
ANT 2	Wi-Fi 6G U-NII-5	12.00	12.00	3.50
ANT 2	Wi-Fi 6G U-NII-6	12.00	12.00	3.50
ANT 2	Wi-Fi 6G U-NII-7	12.00	12.00	3.50
ANT 2	Wi-Fi 6G U-NII-8	12.00	12.00	3.50

Notes:

- 1) Disclaimers: The highest tune up power and antenna gain in the above table are provided by the customer.
- 2) For Wi-Fi SISO and MIMO mode, the higher values in Antenna Gain and Directional Antenna Gain are used for conservative calculation. The conservative higher value is Directional Antenna Gain.

5.2. Calculation Information

For conservative evaluation consideration, only maximum power of each frequency band based on the tighter limits respectively are used to calculate the boundary power density.

Based on the FCC KDB 447498 D04 and 47 CFR §2.1091, the DUT is evaluated as a mobile device.

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

Where

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

5.3. Results

Table 5.3-1: Standalone Evaluation

Antenna	Frequency Band	Limit (mW/cm ²)	Results (mW/cm ²)	Verdict
ANT 1	BT (2402MHz-2480MHz)	1.00	0.026	PASS
ANT 1	Wi-Fi 2.4G (2412MHz-2462MHz)	1.00	0.041	PASS
ANT 1	Wi-Fi 5G U-NII-1 (5180MHz-5250MHz)	1.00	0.014	PASS
ANT 1	Wi-Fi 5G U-NII-2A (5250MHz-5320MHz)	1.00	0.028	PASS
ANT 1	Wi-Fi 5G U-NII-2C (5500MHz-5700MHz)	1.00	0.028	PASS
ANT 1	Wi-Fi 5G U-NII-3 (5745MHz-5825MHz)	1.00	0.028	PASS
ANT 1	Wi-Fi 6G U-NII-5 (5955MHz-6415MHz)	1.00	0.007	PASS
ANT 1	Wi-Fi 6G U-NII-6 (6435MHz-6525MHz)	1.00	0.007	PASS
ANT 1	Wi-Fi 6G U-NII-7 (6525MHz-6875MHz)	1.00	0.007	PASS
ANT 1	Wi-Fi 6G U-NII-8 (6875MHz-7115MHz)	1.00	0.004	PASS
ANT 2	Wi-Fi 2.4G (2412MHz-2462MHz)	1.00	0.041	PASS
ANT 2	Wi-Fi 5G U-NII-1 (5180MHz-5250MHz)	1.00	0.014	PASS
ANT 2	Wi-Fi 5G U-NII-2A (5250MHz-5320MHz)	1.00	0.028	PASS
ANT 2	Wi-Fi 5G U-NII-2C (5500MHz-5700MHz)	1.00	0.028	PASS
ANT 2	Wi-Fi 5G U-NII-3 (5745MHz-5825MHz)	1.00	0.028	PASS
ANT 2	Wi-Fi 6G U-NII-5 (5955MHz-6415MHz)	1.00	0.007	PASS
ANT 2	Wi-Fi 6G U-NII-6 (6435MHz-6525MHz)	1.00	0.007	PASS
ANT 2	Wi-Fi 6G U-NII-7 (6525MHz-6875MHz)	1.00	0.007	PASS
ANT 2	Wi-Fi 6G U-NII-8 (6875MHz-7115MHz)	1.00	0.007	PASS

According to KDB 447498 D04, a single RF source is exempt RF device if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it can not be applied in conjunction with any other test exemption.

Table 5.3-2: NFC Evaluation

Frequency (MHz)	dBμV/m @3m	EIRP(dBm)	Tune up tolerance(dBm)	Maximum Tune up(dBm)	Maximum Tune up(mW)	Exclusion Thresholds (mW)
13.56	55.518	-39.710	-39.50±1	-38.50	0.00014	1.00

Note: EIRP(dBm)=Radiated field strength(dBμV/m)+20Log(d)-104.77, d is the measurement distance, in 3 m.

Conclusion: Base on the above table, the maximum output power of NFC is below the exemption thresholds, NFC can be exempted.

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Table 5.3-3: Simultaneous transmission evaluation

Antenna	Frequency range	Worst case ratios: (Power density results/Limit, Maximum Tune up/Thresholds)	Sum of Ratios	Limit of Ratios	Verdict
ANT 1	BT	0.026	0.067	1.000	PASS
ANT 2	Wi-Fi 2.4G	0.041			
--	NFC	0.00014			
ANT 1	Wi-Fi 2.4G	0.041	0.082	1.000	PASS
ANT 2	Wi-Fi 2.4G	0.041			
--	NFC	0.00014			

Conclusion: The aggregated (Power density/ Limit, Maximum Tune up/ Thresholds) is smaller than 1, and MPE collocated transmitters is compliant.

5.4. Result of BT ANT 1

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 2402 MHz ~ 2480 MHz; The maximum conducted is 18.50 dBm. The maximum gain is 2.60 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.026 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.5. Result of Wi-Fi 2.4G ANT 1

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 2412 MHz ~ 2462 MHz; The maximum conducted is 20.50 dBm. The maximum gain is 2.60 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.041 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

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5.6. Result of Wi-Fi 5G/Wi-Fi 6G ANT 1

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5180 MHz ~ 5250 MHz; The maximum conducted is 15.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.014 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5250 MHz ~ 5320 MHz; The maximum conducted is 18.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.028 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5500 MHz ~ 5700 MHz; The maximum conducted is 18.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.028 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5745 MHz ~ 5825 MHz; The maximum conducted is 18.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

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G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.028 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5955 MHz ~ 6415 MHz; The maximum conducted is 12.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.007 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 6435 MHz ~ 6525 MHz; The maximum conducted is 12.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.007 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 6525 MHz ~ 6875 MHz; The maximum conducted is 12.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.007 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 6875 MHz ~ 7115 MHz; The maximum conducted is 10.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.004 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.7. Result of Wi-Fi 2.4G ANT 2

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 2412 MHz ~ 2462 MHz; The maximum conducted is 20.50 dBm. The maximum gain is 2.60 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.041 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

5.8. Result of Wi-Fi 5G/Wi-Fi 6G ANT 2

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5180 MHz ~ 5250 MHz; The maximum conducted is 15.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.014 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5250 MHz ~ 5320 MHz; The maximum conducted is 18.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

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r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.028 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5500 MHz ~ 5700 MHz; The maximum conducted is 18.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.028 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5745 MHz ~ 5825 MHz; The maximum conducted is 18.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.028 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 5955 MHz ~ 6415 MHz; The maximum conducted is 12.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.007 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 6435 MHz ~ 6525 MHz; The maximum conducted is 12.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.007 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 6525 MHz ~ 6875 MHz; The maximum conducted is 12.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.007 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.

Test Results: MPE Limit Calculation: the EUT'S operating frequencies @ 6875 MHz ~ 7115 MHz; The maximum conducted is 12.00 dBm. The maximum gain is 3.50 dBi. Therefore, maximum limit for general public RF exposure: 1 mW/cm².

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

P= input power of the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of antenna (in meter)=20 cm

S=0.007 mW/cm²

Therefore, at 20 cm the spectral power density is less than the 1.00 mW/cm² limit for uncontrolled exposure.



Report No.: I23W00036-MPE-FCC-Rev1

ANNEX A: EUT photograph

See the document “POS System Photos”.

*****END OF REPORT*****

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