

TEST REPORT

Applicant: NEW POS Technology Limited
Address: AB Unit, 14th Floor, Block A, Financial Technology Building, No.11 Keyuan Rd, Nanshan District, Shenzhen
Equipment Type: Unattended Payment Terminal
Model Name: NEW5320
Brand Name: AMP POS
FCC ID: WAL5320
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: Sep. 03, 2025
Test Date: Apr. 14, 2026
Date of Issue: Apr. 30, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions</u>
<u>Rev. 01</u>	<u>Apr. 21, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Apr. 30, 2026</u>	<u>Add the FCC ID of the module to the citation description</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT).....	4
2.4	Technical Information	5
3	SUMMARY OF TEST RESULT	7
3.1	Test Standards	7
3.2	Limit Standards.....	7
4	DEVICE CATEGORY AND LEVELS LIMITS	8
5	ASSESSMENT RESULT	10
5.1	Output Power	10
5.2	Tune-up power	12
5.3	RF Exposure Evaluation Result	13
5.4	Collocated Power Calculation	14
5.5	Conclusion.....	14

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	NEW POS Technology Limited
Address	AB Unit, 14th Floor, Block A, Financial Technology Building, No.11 Keyuan Rd, Nanshan District, Shenzhen

2.2 Manufacturer Information

Manufacturer	NEW POS Technology Limited
Address	AB Unit, 14th Floor, Block A, Financial Technology Building, No.11 Keyuan Rd, Nanshan District, Shenzhen

2.3 General Description for Equipment under Test (EUT)

EUT Name	Unattended Payment Terminal
Model Name Under Test	NEW5320
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	4G Network LTE FDD Band 2/4/5/7/12/13/14/17/25/26/66/71 LTE TDD Band 41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac GPS, GLONASS, NFC
-----------------------------------	---

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	LTE, WIFI, Bluetooth, NFC		
Frequency Range	LTE Band 2	TX: 1850~1910 MHz	RX: 1930~1990 MHz
	LTE Band 4	TX: 1710~1755 MHz	RX: 2110~2115 MHz
	LTE Band 5	TX: 824~849 MHz	RX: 869~894 MHz
	LTE Band 7	TX: 2500~2570 MHz	RX: 2620~2690 MHz
	LTE Band 12	TX: 699~716 MHz	RX: 729~746 MHz
	LTE Band 13	TX: 777~787 MHz	RX: 746~756 MHz
	LTE Band 14	TX: 788~798 MHz	RX: 758~768 MHz
	LTE Band 17	TX: 704~716 MHz	RX: 734~746 MHz
	LTE Band 25	TX: 1850~1915 MHz	RX: 1930~1995 MHz
	LTE Band 26	TX: 814~824 MHz	RX: 859~869 MHz
		TX: 824~849 MHz	RX: 869~894 MHz
	LTE Band 66	TX: 1710~1780 MHz	RX: 2110~2180 MHz
	LTE Band 71	TX: 663~698 MHz	RX: 617~652 MHz
	LTE Band 41	TX: 2496~2690 MHz	RX: 2496~2690 MHz
	802.11b/g	2412~2462 MHz	
	802.11n(HT20/HT40)	2412~2462 MHz	
	802.11a	5150~5250 MHz	
		5250~5350 MHz	
		5470~5725 MHz	
		5725~5850 MHz	
	802.11n(HT20/HT40)	5150~5250 MHz	
		5250~5350 MHz	
		5470~5725 MHz	
		5725~5850 MHz	
	802.11ac (VHT20/VHT40/ VHT80)	5150~5250 MHz	
		5250~5350 MHz	
		5470~5725 MHz	
		5725~5850 MHz	
	Bluetooth	2402~2480 MHz	
	NFC	13.56 MHz	
Antenna Type	WWAN	External Antenna	
	WIFI	FPC Antenna	
	Bluetooth	FPC Antenna	

	NFC	Coil Antenna
Exposure Category	General Population/Uncontrolled Exposure	
Product Type	Fix Location Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
300		39	65	88	110	129	148	166	184	201	217
450		22	44	67	89	112	135	158	180	203	226
835		9	25	44	66	90	116	145	175	207	240
1900		3	12	26	44	66	92	122	157	195	236
2450		3	10	22	38	59	83	111	143	179	219
3600		2	8	18	32	49	71	96	125	158	195
5800		1	6	14	25	40	58	80	106	136	169

5 ASSESSMENT RESULT

5.1 Output Power

Mode	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
Conducted Power (dBm)	23.88	23.37	23.55	23.81	23.37
Antenna Gain (dBi)	-1.55	-0.51	0.69	-1.45	2.35
EIRP/ERP (dBm)	22.33	22.86	22.09	22.36	23.57
Mode	LTE Band 13	LTE Band 14	LTE Band 17	LTE Band 25	LTE Band 26 (Part22)
Conducted Power (dBm)	23.33	23.22	23.36	23.87	23.38
Antenna Gain (dBi)	2.99	2.99	2.35	-1.55	0.93
EIRP/ERP (dBm)	24.17	24.06	23.56	22.32	22.16
Mode	LTE Band 26 (Part90)	LTE Band 41	LTE Band 66	LTE Band 71	
Conducted Power (dBm)	23.42	23.53	23.32	23.37	
Antenna Gain (dBi)	0.94	-2.01	-0.51	1.81	
EIRP/ERP (dBm)	22.21	21.52	22.81	23.03	
Note: This report listed the worst case conducted power value, please refer to BL-SZ2590416-501 report for more details.					

Mode	Bluetooth	2.4G WIFI	5.2G WIFI	5.3G WIFI	5.6G WIFI	5.8G WIFI
Conducted Power (dBm)	9.55	18.09	18.37	18.42	18.48	18.32
Antenna Gain (dBi)	1.27	1.27	2.84	3.39	2.53	1.75
EIRP (dBm)	10.82	19.36	21.21	21.81	21.01	20.07
Note: This report listed the worst case conducted power value, please refer to PD20240152-R3B (FCC ID: XMR2024SC200ENA), PD20240152-R3C (FCC ID: XMR2024SC200ENA), PD20240152-R3D (FCC ID: XMR2024SC200ENA), PD20240152-R3E (FCC ID: XMR2024SC200ENA) report for more details.						

Mode	NFC
Field Strength (dBuV/m)	52.73
Conducted Power (dBm)	-23.92
Antenna Gain (dBi)	0
ERP (dBm)	-26.07

Note 1: This table listed the worst case power value, please refer to BL-SZ2590416-402 report for more details.

Note 2: Add the appropriate maximum ground reflection factor to the EIRP level (6dB for frequencies≤30MHz, 4.7dB for frequencies between 30MHz and 1000MHz, inclusive and 0dB for frequencies > 1000 MHz).

Note 3: Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$E = \text{EIRP} - 20\log D + 104.8 + \text{maximum ground reflection factor}$

where:

E=electric field strength in dBuV/m

EIRP =equivalent isotropic radiated power dBm

D=specified measurement distance in meters

Note 4: When frequencies≤1000MHz, radiated power is ERP.

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
LTE Band 2	[22.00, 24.00]	[20.45, 22.45]	[18.30, 20.30]
LTE Band 4	[21.50, 23.50]	[20.99, 22.99]	[18.84, 20.84]
LTE Band 5	[22.00, 24.00]	/	[20.54, 22.54]
LTE Band 7	[22.00, 24.00]	[20.55, 22.55]	[18.40, 20.40]
LTE Band 12	[21.50, 23.50]	/	[21.70, 23.70]
LTE Band 13	[21.50, 23.50]	/	[22.34, 24.34]
LTE Band 14	[21.50, 23.50]	/	[22.34, 24.34]
LTE Band 17	[21.50, 23.50]	/	[21.70, 23.70]
LTE Band 25	[22.00, 24.00]	[20.45, 22.45]	[18.30, 20.30]
LTE Band 26 (Part22)	[21.50, 23.50]	/	[20.28, 22.28]
LTE Band 26 (Part90)	[21.50, 23.50]	/	[20.28, 22.29]
LTE Band 41	[22.00, 24.00]	[19.99, 21.99]	[17.84, 19.84]
LTE Band 66	[21.50, 23.50]	[20.99, 22.99]	[18.84, 20.84]
LTE Band 71	[21.50, 23.50]	/	[17.54, 19.54]
Bluetooth	[8.00, 10.00]	[9.27, 11.27]	[7.12, 9.12]
2.4G WIFI	[16.50, 18.50]	[17.77, 19.77]	[15.62, 17.62]
5.2G WIFI	[16.50, 18.50]	[19.34, 21.34]	[17.19, 19.19]
5.3G WIFI	[16.50, 18.50]	[19.89, 21.89]	[17.74, 19.74]
5.6G WIFI	[16.50, 18.50]	[19.03, 21.03]	[16.88, 18.88]
5.8G WIFI	[16.50, 18.50]	[18.25, 20.25]	[16.10, 18.10]
NFC	[-25.50, -23.50]	/	[-27.65, -25.65]
Note1: ERP= EIRP -2.15dB.			
Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.			

5.3 RF Exposure Evaluation Result

Evolution Mode	Maximum Power (dBm)	Maximum Power (mw)	Distance (mm)	Threshold Power (mW)	Power / Limit	Verdict
LTE Band 2	24.00	251.19	200	3060.00	0.082	Pass
LTE Band 4	23.50	223.87	200	3060.00	0.073	Pass
LTE Band 5	24.00	251.19	200	1680.96	0.149	Pass
LTE Band 7	24.00	251.19	200	3060.00	0.082	Pass
LTE Band 12	23.70	234.42	200	1425.96	0.164	Pass
LTE Band 13	24.34	271.64	200	1585.08	0.171	Pass
LTE Band 14	24.34	271.64	200	1607.52	0.169	Pass
LTE Band 17	23.70	234.42	200	1436.16	0.163	Pass
LTE Band 25	24.00	251.19	200	3060.00	0.082	Pass
LTE Band 26 (Part22)	23.50	223.87	200	1680.96	0.133	Pass
LTE Band 26 (Part90)	23.50	223.87	200	1660.56	0.135	Pass
LTE Band 41	24.00	251.19	200	3060.00	0.082	Pass
LTE Band 66	23.50	223.87	200	1352.52	0.166	Pass
LTE Band 71	23.50	223.87	200	3060.00	0.073	Pass
Bluetooth	10.00	10.00	200	3060.00	0.003	Pass
2.4G WIFI	18.50	70.79	200	3060.00	0.023	Pass
5.2G WIFI	19.19	82.99	200	3060.00	0.027	Pass
5.3G WIFI	19.74	94.19	200	3060.00	0.031	Pass
5.6G WIFI	18.88	77.27	200	3060.00	0.025	Pass
5.8G WIFI	18.50	70.79	200	3060.00	0.023	Pass
NFC	-23.50	0.01	200	39.00	0.001	Pass

5.4 Collocated Power Calculation

Evolution Mode	Power / Limit	$\Sigma(\text{Power} / \text{Limit})$ of WWAN + Bluetooth + 2.4G WIFI + NFC	Verdict
WWAN	0.171	0.198	Pass
Bluetooth	0.003		
2.4G WIFI	0.023		
NFC	0.001		
Evolution Mode	Power / Limit	$\Sigma(\text{Power} / \text{Limit})$ of WWAN + 2.4G WIFI + NFC	Verdict
WWAN	0.171	0.195	Pass
2.4G WIFI	0.023		
NFC	0.001		
Evolution Mode	Power / Limit	$\Sigma(\text{Power} / \text{Limit})$ of Bluetooth + 2.4G WIFI + NFC	Verdict
Bluetooth	0.003	0.027	Pass
2.4G WIFI	0.023		
NFC	0.001		

Note:

1. $\Sigma(\text{Power} / \text{Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for WWAN + Bluetooth + 2.4G WIFI + NFC.
2. Both of the WWAN/ Bluetooth/ 2.4G WIFI/NFC can transmit simultaneously, the formula of calculated the Power is

$$CP1 / LP1 + CP2 / LP2 + \dots \text{etc.} < 1$$

CP = Calculation power
LP = Limit of power
3. The worst-case situation is 0.198, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
4. The DUT work frequency range used is 1710 MHz ~ 1780 MHz, 2402 MHz ~ 2480 MHz and 2412 MHz ~ 2462 MHz the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--