

mPower Electronics, Inc.

SAR COMPLIANCE REPORT

Report Type:

FCC SAR assessment report

Model:

MP87X

REPORT NUMBER:

2601B2072SHA-002

ISSUE DATE:

July 1, 2026

DOCUMENT CONTROL NUMBER:

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Applicant: mPower Electronics, Inc.
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Manufacturer: mPower Electronics, Inc.
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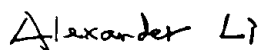
FCC ID: 2AUXFMP87X

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB 447498 D01 General RF Exposure Guidance v06

FCC Part2.1091, FCC Part1.1307(b)

PREPARED BY:**REVIEWED BY:**

Project Engineer
Alexander Li

Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
2601B2072SHA-002	Rev. 01	Initial issue of report	July 1, 2026

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	VOXiLink Wireless Transmitters
Type/Model:	MP87X
Description of EUT:	The EUT is a gas detector with LoRa function.
Rating:	3.6Vdc by Battery
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	January 12, 2026
Date of test:	January 12, 2026 to June 8, 2026

1.2 Technical Specification

Frequency Range:	904.5MHz to 927MHz
Type of Modulation:	LoRa
Channel Number:	16
Channel Separation:	1.5MHz
Antenna:	1.45dBi, Rod antenna

TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^4	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	4 000/f	5 000/f	-
0,025-0,8 kHz	250/f	4/f	5/f	-
0,8-3 kHz	250/f	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	0,73/f	0,92/f	-
1-10 MHz	$87/f^{1/2}$	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	f/200
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

TEST REPORT

2.2 Assessment Results

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = Conducted transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 2601B2072SHA-001:

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Mode	Peak Power	Peak Power	Antenna Gain	Antenna Gain	R	S	Limits
	dBm	mW	dBi	Numeric	(cm)	(mW/cm2)	(mW/cm2)
LoRa (904.5-927MHz)	19.23	83.75	1.45	1.40	20	0.0233	1

Note: 1 mW/cm2 from 1.310 Table 1

Therefore, the MPE requirement is deemed to be satisfied without test.

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations closer than this distance are not recommended.

***** END *****