TEST REPORT

APPLICANT

Proasia Design Co., Ltd.

MODEL NAME

LED Pressure Transmitter

FCC ID

2BX72-20PAH

REPORT NUMBER

HA260728-PRD-001-R07-02

TEST REPORT

Date of Issue
October 27, 2026

Test Site
HCT America, Inc.
840 Yosemite Way, Milpitas, CA 95035, USA

Applicant	Proasia Design Co., Ltd.
Applicant Address	No. 105, Xingde Rd., Sanchong Dist., New Taipei City, 24158 Taiwan (R.O.C.).
FCC ID	2BX72-20PAH
Model Name	LED Pressure Transmitter
EUT Type	Battery-powered transmitter that screws into the high-pressure port of a scuba diving regulator.
FCC Classification	DCD Part 15 Low Power Transmitter Below 1705 kHz
FCC Rule Part(s)	Part 1 (§1.1310 / §1.1307), Part 2 (§2.1091)
Test Procedure	KDB 447498 D01 v06

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was in accordance with the procedures specified in §2.947. The results in this report apply only to the product which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT America, Inc. certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

Authorized & Released By:

Dan Coronia
Technical Manager

Tested By:

Joe Vang
RF Engineer

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REVISION HISTORY

The revision history for this document is shown in table.

TEST REPORT NO.	REVISION	DATE	DESCRIPTION
HA260728-PRD-001-R07	0	October 6, 2026	Initial Issue
HA260728-PRD-001-R07-01	1	October 10, 2026	DC input ceiling method
HA260728-PRD-001-R07-02	2	October 27, 2026	Updated Section 1, 2.1, 2.2, & 3

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1. EUT DESCRIPTION

Model	LED Pressure Transmitter
EUT Type	Battery-powered transmitter that screws into the high-pressure port of a scuba diving regulator.
Power Supply	3 V d.c. (Lithium battery)
RF Specification	38 kHz (0.038 MHz) Radio
Transmitter Chain	1
Exemption Analysis	38 kHz RF exposure assessment – Below §1.1307 SAR/MPE Evaluation Frequency Ranges
Antenna Specification [1)]	Antenna Type: PCB Chip
Operating Environment	Outdoor
Operating Temperature	-6.67 °C ~ 60 °C (20 °F ~ 140 °F)

Note(s):
1. Antenna information is based on the document provided.

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2. INTRODUCTION

2.1. APPLICABLE FCC REQUIREMENTS

RF exposure compliance for FCC equipment authorization is addressed under 47 CFR §1.1307(b), §1.1310, and the applicable FCC KDB 447498 guidance.

This report addresses the RF exposure assessment for the intentional transmitter operating at 38 kHz (0.038 MHz). Under 47 CFR §1.1310, SAR evaluation applies within the frequency range of 100 kHz to 6 GHz, while MPE evaluation applies at frequencies at 300 kHz. Therefore, the 38 kHz transmitter operates below the frequency ranges specified for these SAR and MP evaluation methods.

Accordingly, no SAR or MPE exposure limit under §1.1310 is applied to the 38 kHz transmitter. The assessment below documents the available transmitter power as supporting information for the applicable FCC RF exposure requirements.

2.2. RF EXPOSURE ASSESSMENT

The EUT incorporates an intentional transmitter operating at 38 kHz (0.038 MHz).

The measured DC input power to the final amplifier stage is conservatively used as an upper bound on the available RF power of the 38 kHz transmitter.

Power (P) = Voltage (V) x Current (I)

V = 3.0 V
I = 0.037 A
P = 3.0 x 0.037 = 0.111 W

Therefore, the measured DC input power to the final amplifier stage is 0.111 W. Since the operating frequency of 38 kHz is below the frequency ranges specified in 47 CFR §1.1310 for SAR and MPE evaluation, the 0.111 W value is provided as conservative transmitter power information and is not directly compared with a SAR or MPE limit.

3. CONCLUSION

The EUT incorporates an intentional transmitter operating at 38 kHz (0.038 MHz). The measured DC input power to the final amplifier stage is 0.111 W and is conservatively used as an upper bound on the available RF power.

Under 47 CFR §1.1310, the 38 kHz operating frequency is below the frequency ranges specified for SAR and MPE evaluation. Therefore, no SAR or MPE exposure limit under §1.1310 is applied to the 38 kHz transmitter. The 0.111 W value is provided as conservative supporting transmitter power information and is not directly compared with a SAR or MPE exposure limit.

This assessment documents the 38 kHz transmitter characteristics for evaluation under the applicable FCC RF exposure requirements.

END OF TEST REPORT

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