TEST REPORT

RF Exposure Evaluation

Report No.:	CISRR26040929702
Project No.:	CISR260409297
FCC ID:	2BVNA-BS-PA-01
Applicant:	Blue Sea Selection (Shenzhen) Intelligent Equipment Manufacturing Co., Ltd.
Address:	L10-06, Ronghu Guangchang, Ronghu Siqi, No.408 Pingji Avenue, Pinghu, Longgang, Shenzhen
Manufacturer:	Blue Sea Selection (Shenzhen) Intelligent Equipment Manufacturing Co., Ltd.
Address:	L10-06, Ronghu Guangchang, Ronghu Siqi, No.408 Pingji Avenue, Pinghu, Longgang, Shenzhen
Product Name:	Pool Alarm
Trade Mark:	-
Model/Type reference:	BS-PA-01
Listed Model(s):	-
Standard:	47 CFR Part 15.231
Issue date:	April 24, 2026
Test result:	**Complied**

Morgan Tan

Reviewed by: Morgan Tan

Shenzhen Bangce Testing Technology Co., LTD. Certification Inspection Service

Approved by: Hans Hu

The test results relate only to the tested samples.

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1. APPLICABLE STANDARD

47 CFR Part2.1093: Radio frequency radiation exposure evaluation: portable devices

ANSI C95.1–2019: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

47 CFR Part1.1307: Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.

2. REPORT VERSION

Version No.	Issue date	Description
00	April 24, 2026	Original

3. RADIO SPECIFICATION DESCRIPTION

Modulation type:	ASK
Operation frequency:	433.92MHz
Transmission Type:	Manual Transmission and Activation Transmission

Note: Please refer to RF report for detailed technical specifications

4. SIMULTANEOUS TRANSMISSION ANALYSIS

These devices use a single transmitter module and antenna for both SRD.

5. TEST RESULT

5.1. Standalone transmission

Limit:

KDB447498 D01 v06, Clause 4.3.1 a)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation31 • The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

Result: **Passed**

Test Data

Radio type	Frequency (GHz)	Maximum EIRP#1 (dBm)	Maximum tune-up EIRP #2(dBm)	Minimum distance (mm)	Evaluated value	Limit	Result
FSK	0.43392	-17.03	-16	5	0.0033	3.00	PASS

Note

#1: This value comes from the RF test report.

Field Strength: 78.12dBuV/m @3m;

EIRP=E-104.7+20logD=78.12-104.7+20log3=-17.03dBm

#2: This value is declared by the applicant.

5.2. Simultaneous transmission

Limit:	KDB447498 D01 v06, Clause 4.3.2, 47 CFR Part1.1307 In the case of xed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation. $\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$ Where a = number of fxed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for P , including existing exempt transmitters and those being added. b = number of fxed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added. c = number of existing fixed, mobile, or portable RF sources with known evaluation for the speci ed minimum distance including existing evaluated transmitters. P_j = the available maximum time-averaged power or the ERP, whichever is greater, for xed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive). $P_{th,j}$ = the exemption threshold power (P) according to paragraph (b)(3)(i)(B) of this section for xed, mobile, or portable RF source i. ERP_j = the ERP of fixed, mobile, or portable RF source j. $ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of this section. $Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure. $Exposure\ Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or speci c absorption rate (SAR) limit for each xed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.
Result:	**Not Applicable**

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