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RF Exposure Evaluation Report

Product Underwater External Shutter

Trade mark DIVEVOLK Model/Type reference : DAFUES

Serial Number N/A

Report Number : EED32R80351902 **FCC ID** : 2BOFDDAFUES Date of Issue : May 08, 2025

47 CFR Part 1.1307 **Test Standards**

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

KDB 447498 D04 Interim General RF

Exposure Guidance v01

Test result **PASS**

Prepared for:

Divevolk (Zhuhai) Intelligence Tech Co., Ltd 17th Floor, Room 229, No. 91, Qinlang Road, Hengqin New District, Zhuhai City

Prepared by:

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1 Version

Version No.	Date	Description			
00	May 08, 2025		Original		
7		100		(3)	
			(6,)	(6,7)	





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3 General Information

3.1 Client Information

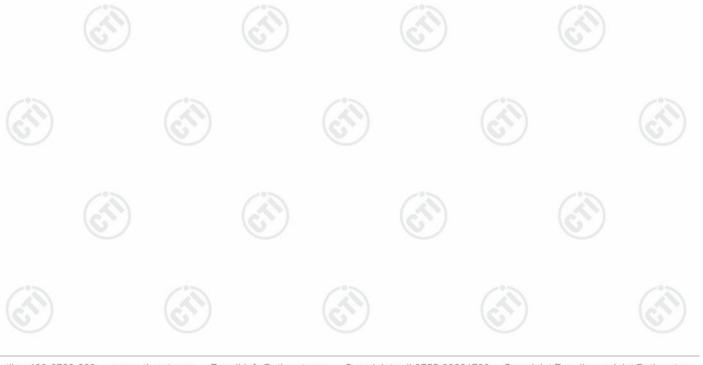
Applicant:	Divevolk (Zhuhai) Intelligence Tech Co., Ltd
Address of Applicant:	17th Floor, Room 229, No. 91, Qinlang Road, Hengqin New District, Zhuhai City
Manufacturer:	Divevolk (Zhuhai) Intelligence Tech Co., Ltd
Address of Manufacturer:	17th Floor, Room 229, No. 91, Qinlang Road, Hengqin New District, Zhuhai City
Factory:	Zhongshan Haichu Intelligence Technology Co., Ltd.
Address of Factory:	4th Floor, Area B, Building 3, Jinwan Industrial Park, Shengye Road, Xinxu Village, Sanxiang Town, Zhongshan City

3.2 General Description of EUT

Product Name:	Underwater External Shutter	
Model No.(EUT):	DAFUES	
Trade Mark:	DIVEVOLK	

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz		
Modulation Type:	GFSK		
Test Power Grade:	Default)	(6,5)
Test Software of EUT:	fcc_test_tool		
Antenna Type:	PCB Antenna		
Antenna Gain:	-0.58dBi		
Power Supply:	DC 3V	(41)	(41)
Sample Received Date:	Mar. 19, 2025	(6)	
Sample tested Date:	Mar. 19, 2025 to Apr. 03, 2025		







3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

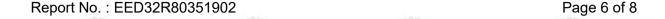
3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions







4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of $\S 1.1307(b)(3)(i)(B)$, 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 Pth (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). Pth is given by Formula

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

where

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

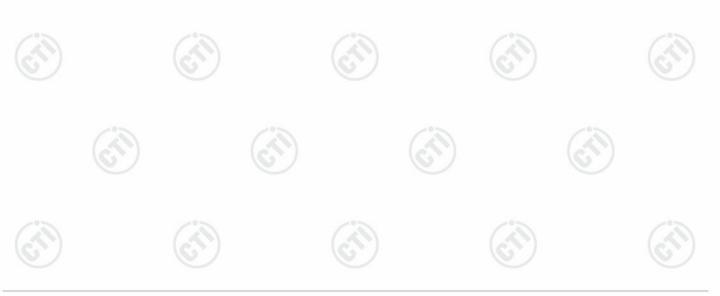
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.





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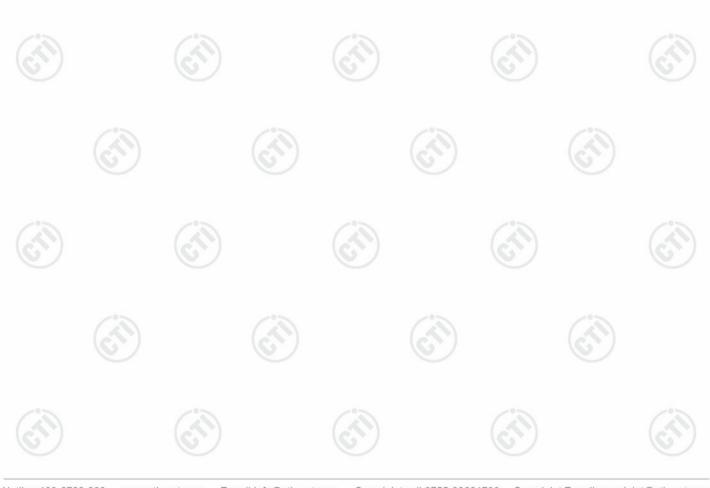
4.1.3 EUT RF Exposure Evaluation

For Stand alone:

1000	Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
	2402	0.5	-2.16	0.58	-3.73	0.4236	2.7877	0.1520	Pass

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) 95.23;
- $4ERP(mW) = 10^{(ERP (dBm)/10)};$
- ⑤The estimation distance is 0.5cm;
- ©The test data please refer to the report of EED32R80351901 and only the worst case data was recorded in the report.







Statement

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full;

