Test Report

Prepared for: Decatur Electronics, LLC

Model: SVR3D

FCC ID: HTRSCOUT2

Serial Number: SHD2+-00127

Project: p24c0005

Test Results: Pass

To

FCC Part 1.1310

Date of Issue: April 11, 2025

On the behalf of the applicant:	**Decatur Electronics, LLC** **920 S. Andreasen Drive. STE 103** **Escondido, CA 92029**
Attention of:	**Kimble Smith, Senior Design Engineer** **Ph: 800-428-4315** **E-Mail: KimbleS@decaturelectronics.com**
Prepared By:	**Compliance Testing, LLC** **Mesa, AZ 85204** **(480) 926-3100 phone / (480) 926-3598 fax** **www.compliancetesting.com** **ANAB Cert#: AT-2901** **FCC Site Reg. #US2901** **ISED Site Reg. #2044A-2**

Greg Corbin

Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	4-11-2025	Greg Corbin	Original Document
2.0	5-6-2025	Greg Corbin	Corrected power density typo on page 5

ANAB

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to http://www.compliancetesting.com/labscope.html for current scope of accreditation.

FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model:	SVR3D
Serial:	SHD2+-00127
Firmware:	N/A
Software:	2.0
Description:	Handheld Surface Water Velocity Radar
Additional Information	Refer to Table 1
Receipt of Sample(s):	February 25, 2025
EUT Condition:	**Visual Damage** No **State of Development** Production/Production Equivalent
Accessories	None
Modifications	None

Table 1 – Frequency Range, Modulation, emission designators

Frequency Range (GHz)	Test Frequency (GHz)	Modulation	Emission Designator
33.400 – 36.000	35.456	CW	NON

EUT Operation during tests:
The EUT is powered by an internal battery.
Depressing the trigger turns the CW transmitter on.

MPE Evaluation

The EUT is a portable device used in an Uncontrolled Exposure environment.
Per KDB 447498 D04 Interim General RF Exposure Guidance v01, all devices operating at > 6 GHz are to be evaluated per the MPE limits in § 1.1310(e)(1) - Table 1

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (ii)		
	0.3-1.234 MHz:	Limit [mW/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

The radiated output power used in the MPE calculation is from the FCC Part 90 test report (p24c0005_FCC_Part 90_rev 1.0) associated with EUT.
The antenna gain is part of the final radiated power measurement.
0 dBi antenna gain was used for the MPE calculation.
With the EUT held in the hand, the antenna is at least 8 cm from the trigger, which is the closest point to the user in normal operation.

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm^2

MPE calculation

Test Frequency, MHz	35456
Power, Radiated, dBm (P)	26.64
Power, Radiated, mW (P)	461.3
Antenna Gain Isotropic	0
Antenna Gain Numeric (G)	1
Antenna Type	lense
Distance (R)	8 cm

Power Density (S) =0.574 mW/cm^2
Limit = (from above table) = 1.0 mW/cm^2

The EUT Power Density of 0.574 mW/cm^2 is under the limit of 1.0 mW/cm^2 at 8 cm.

END OF TEST REPORT