

TEST REPORT

Product Name : RC speed boat
Model Number : Please refer to page 5
FCC ID : 2AW78202601

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1. TEST RESULT CERTIFICATION

Applicant : Shantou Hong XUN Jie Electronic Technology Co., Ltd.
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Manufacturer : Shantou Hong XUN Jie Electronic Technology Co., Ltd.
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Factory : Shantou Hong XUN Jie Electronic Technology Co., Ltd.
Address : No. 6, South of Dengfeng Road, Guangyi Street, Chenghai District, Shantou, 515800, China
EUT : RC speed boat
Model Name : Please refer to page 5
Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.249, § 2.1093	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.249, § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : Jan 06, 2026 to Jan 30, 2026

Prepared by : 
Yu Xiaolan /Editor

Reviewer : 
Xia Lili/Supervisor

Approve & Authorized Signer : 
Wang Li/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2601060015W00402R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	RC speed boat
Model Number:	HJ822, HJ808, HJ809, HJ810B, HJ811, HJ812, HJ813, HJ815, HJ817, HJ818, HJ818PRO, HJ819, HJ819T, HJ820, HJ821, HJ821T, HJ823, HJ825, HJ825A, HJ825B, HJ826, HJ826A, HJ826B, HJ827, HJ827A, HJ827B, HJ828, HJ828A, HJ828B, HJ829, HJ829A, HJ829B, HJ830, HJ830A, HJ830B, HJ831, HJ831A, HJ831B, HJ832, HJ832A, HJ832B, HJ835, HJ835A, HJ835B, HJ836, HJ836A, HJ836B, HJ837, HJ837A, HJ837B, HJ838, HJ838A, HJ838B, HJ839, HJ839A, HJ839B All control remoter of products are identical except the model number and the controlled (received)part boat.Here we selected HJ822 for all the test.
Sample:	1#
Operating Frequency Range(s) :	2405MHz-2475MHz
Number of Channels:	71 channels
Max Field Strength	83.12 dBuV@3m
Antenna Type:	2.4G Linear antenna
Power Supply	DC 6.0V from Battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

SAR Evaluation

According to 447498 D01 V06, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 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 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain: 2.97 dBi

2.4G SRD

Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2405	82.15	-13.079	-13±1	-12	0.0196	3
2440	80.50	-14.729	-14±1	-13	0.0157	3
2475	83.12	-12.109	-12±1	-11	0.0250	3

According to KDB 447498, no stand-alone required for antenna, and no simultaneous SAR measurement is required.

*** End of Report ***