





Test Report - RF Exposure Evaluation Report for SAR Exclusion Applicant: JL Marine Systems, Inc.

Approved for Release By:

Signature: _	Bruno Chevor			
Name & Title:	Bruno Clavier, General Manager			
Date of Signature	8/15/2023			

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1. Applicant Information

Applicant: JL Marine Systems, Inc. Address: 9010 Palm River Rd.

Tampa, FL 33619 United States

2. Location of Testing

2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45, Newberry, Florida 32669

FCC test firm # 578780
FCC Designation # US1070
FCC site registration is under A2LA certificate # 0955.01
ISED Canada test site registration # 2056A
EU Notified Body # 1177
For all designations see A2LA scope # 0955.01

2.2 Testing was performed, reviewed by

Dates of Testing: 5/16/2023-5/23/2023

Signature:	Care D. Page	Sr. EMC Engineer MARIE EMC-003838-NE
Name & Title:	Tim Royer, EMC Engineer	
Date of Signature	8/15/2023	
Signature:	Jerri Ollen	
Name & Title:	Terri Allen, Project Specialist	
Date of Signature	8/15/2023	

3. Test Sample(s) (EUT/DUT)

The test sample was received: 5/12/2023

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification					
FCC ID:	A7FEA205				
Brief Description	Foot Button - Remote Control Transmitter				
Model(s) #	MV-AC-FS-HEAD				
Firmware version	N/A				
Software version	CM2 Scripting Tool V2.5u				
Serial Number	N/A				

Technical Characteristics				
Frequency Range	921.25 MHz			
Modulation	N/A			
Bandwidth & Emission Class	N/A			
Number of Channels	N/A			
Duty Cycle	100%			
Voltage Rating (AC or Batt.)	3VDC			
Antenna Gain	0 dBi			
Fundamental Field Strength (dBuv/m)	62.96 dBuv/m			

SAR EXCLUSION CALCULATION:

Section 4.3.1 General SAR test exclusion guidance

Equation:

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)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, 30 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

RSS 102 Section 2.5 Exemption Limits for Routine Evaluation

Equation:

- below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

Conclusion: SAR testing is not required

MPF

IVII							
Frequency Band	Separation Distance (mm)	Max Power + Tolerance (dBm)	Max Power + Tolerance (mW)	SAR Exclusion Value	Limit for 1-g SAR	Limit for 10-g SAR (Extremeties)	SAR Exclusion
921.25-921.25 MHz	5	-34.42	0.00	0.00	3.0	7.5	SAR EXEMPT

4. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
	1	Initial release	8/15/2023
TR_9525-23_RF Exp SAR Exclusion_			

END OF TEST REPORT