

REM-EMIESS23G756WAT-01Av0

MPE test report	
According to the standard:	
CFR 47 FCC PART 15	
Equipment under test: <i>Toran'O</i>	
FCC ID: 2AGTV-50-70-244	
Company: WATTECO	

Distribution: Mr LEFORT

(Company: WATTECO)

Number of pages: 6

Ed.	Date	Modified	Technical Verification and Quality Approval	
		Page(s)	Name and Function	Visa
0	13-Jan-25	Creation	S. LOUIS, Radio Technician	

Duplication of this document is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above. This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.

Information in italics are declared by the manufacturer/customer and are under his responsibility

Siège Social : Emitech – 3 avenue des Coudriers - Z.A. de l'Observatoire - 78180 MONTIGNY LE BX - France

Siret : 344 545 645 00022 - Tél. : 33 (0)1 30 57 55 5 - Fax : 33 (0)1 30 43 74 48 - E-mail : contact@emitech-group.com - URL : www.emitech.fr SAS au capital de 1 560 000 € - R.C.S. VERSAILLES B 344 545 645 - APE 7112B



DESIGNATION OF PRODUCT:	Toran'O	
Serial number (S/N):	Adresse MAC (DevEUI) = 70	B3D5E75E017187
MPN:	50-70-252-000	
Model:	Toran'O Product Line	
Software version:	v3.5.2.6404	
MANUFACTURER:	WATTECO	
COMPANY SUBMITTING THE PRODU	UCT:	
Company:	WATTECO	
Address:	POLE DE TECHNELLYS BATIMENT H – BOITE AUX L 165 RUE DE LA MONTAGNE 56600 - LANESTER FRANCE	
Responsible:	Mr LEFORT	
Person(s) present during the tests:	/	
DATES OF TEST:	From 2-Sep-24 to 6-Sep-24	
TESTING LOCATION:	EMITECH ANGERS laborator	ry at JUIGNE SUR LOIRE (49) FRANCE
	FCC Accredited under US-EL Test Firm Registration Number	J MRA Designation Number: FR0009 er: 873677
TESTED BY:	B. VOVARD	VISA:
WRITTEN BY:	B. VOVARD	Bilouard



CONTENTS

TITLE

PAGE

1.	INTRODUCTION	4
2.	PRODUCT DESCRIPTION	4
3.	NORMATIVE REFERENCE	5
4.	RF EXPOSURE	6

REVISIONS HISTORY

Revision	Date	Modified pages	Modifications
0	10-Sep-24	/	Creation



1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: *Toran'O*, in accordance with normative reference.

The device under test integrates a LoRa not certified function.

2. PRODUCT DESCRIPTION

Category of equipment (ISED):	I
Class:	В
Utilization:	Residential
Antenna type and gain:	Integral antenna (Maximum Gain : 5.92 dBi)
Operating frequency range:	From 902 MHz to 928 MHz
Frequency tested: 9	02.3 MHz, 908.7 MHz, 914.9 MHz for transmission

Frequencies plan detailed transmitter:

Channel frequencies	LoRa bandwidth (KHz)	Number of channel	Channel width (KHz)
902,3+i*0,2MHz (i=0 à 63)	125	64	200
Number of channels:	64		
Channel spacing:	200 kHz		
Modulation:	LoRa with spread factor 7 to 10		
Power source:	3.6 Vdc LS17500 battery 3.6 Ah		

During test the output power was adjusted at the maximal level with the following setting (13 dB).

Power level, frequency range and channels characteristics are not user adjustable. The details pictures of the product and the circuit boards are joined with this file.



3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below. They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 (2024)	Radio Frequency Devices
ANSI C63.10	2013 Procedures for ComplianceTesting of Unlicensed Wireless Devices.
447498 D04 Interim General RF Exposure Guidance v01	RF Exposure Pocedures and Equipment Authorization Policies for Mobile and Portable Devices



4. RF EXPOSURE

Maximum Permissive Exemption according paragraph 1.1310(d)(2) of CFR 47 FCC Part 15

In accordance with KDB 447498 D04 Interim General RF Exposure Guidance v01, paragraph 1.4.2 :

Maximum measured power = $103.33 \text{ dB}\mu\text{V/m} = 0.071759 \text{ W}$ at 902.3 MHz in SF7 with P = $(\text{E}\times\text{d})^2$ / $(30\times\text{Gp})$ with d = 10 m and Gp = 1

PSD= EIRP/($4^*\pi^*R^{2}$)

 \Rightarrow 71.759/(4* π *(20 cm)²)= 0.01428 mW/cm² (limit = 0.601 mW/cm²)

The equipment fulfils the requirements on power density for general population/uncontrolled exposure and therefore fulfils the requirements of 47 CFR §1.1310.