

## MPE test report

**According to the standard:**

**CFR 47 FCC PART 15**

**Equipment under test:**

***MODULE RFID 13.56 MHz***

**FCC ID: *ZFX0011***

**Company:**

**EVOLIS**

**Distribution:** Mrs BEAUDUSSEAU

**(Company:** EVOLIS)

**Number of pages:** 6

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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



**DESIGNATION OF PRODUCT:** *MODULE RFID 13.56 MHz*

**Serial number (S/N):** *N/A*

**Reference / model (P/N):** *CP013463*

**Software version:** *Macro Excel*

**MANUFACTURER:** *EVOLIS*

**COMPANY SUBMITTING THE PRODUCT:**

**Company:** *EVOLIS*

**Address:** *14, avenue de la Fontaine  
ZI ANGERS BEAUCOUZE  
49070 BEAUCOUZE - FRANCE*

**Responsible:** *Mr Serge*

**DATE(S) OF TEST:** *From 7-Jul-21 to 8-Jul-21*

**TESTING LOCATION:** *EMITECH ANGERS laboratory at JUIGNE SUR LOIRE (49) FRANCE  
FCC Accredited under US-EU MRA Designation Number: FR0009  
Test Firm Registration Number: 873677*

**TESTED BY:** *T. LEDRESSEUR*

**VISA:**



**WRITTEN BY:** *T. LEDRESSEUR*

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## REVISIONS HISTORY

Revision	Date	Modified pages	Modifications
0	9-Jul-21	/	Creation

## 1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **MODULE RFID 13.56 MHz**, in accordance with normative reference.

## 2. PRODUCT DESCRIPTION

Category of equipment (ISED): I

Class: B

Utilization: Radio module destined to be used only by EVOLIS

Antenna type and gain: 0 dBi / dedicated antenna

Operating frequency range: From 13.110 MHz to 14.010 MHz

Number of channels: 1

Channel spacing: Not concerned

Modulation: ASK

Power source: The workbench is powered at 230Vac by AC/DC Adapter,

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 (2021)	Radio Frequency Devices
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ANSI C63.10	2013 Procedures for Compliance Testing of Unlicensed Wireless Devices.
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447498 D01 General RF Exposure Guidance v06	RF Exposure procedures and equipment authorization policies for mobile and portable equipment
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OET BULLETIN 65	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
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#### 4. RF EXPOSURE

##### MPE

Maximum measured power = 42.36 dBμV/m =  $0.437 \times 10^{-6}$  mW at 13.56 MHz  
with  $P = (E \times d)^2 / (30 \times G_p)$  with  $d = 10$  m and  $G_p = 1$

In accordance with KDB 447498 D01 General RF Exposure Guidance v06:

$$PSD = EIRP / (4 \times \pi \times R^2)$$

$$0.437 \times 10^{-6} / (4 \times \pi \times (20 \text{ cm})^2) = 87 \times 10^{-12} \text{ mW/cm}^2 \text{ (limit = } 0.978 \text{ mW/cm}^2 \text{)}$$

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