

RE051-20-103141-5-A Ed. 0

**MPE test report**

**According to the standard:**  
CFR 47 FCC PART 15

**Equipment under test:**  
ZB5SKR01  
RFID compact station

**FCC ID: Y7HZB5SK**

**Company:**  
**SCHNEIDER ELECTRIC INDUSTRIES**

**Distribution:** Mr CORAZZA

**(Company:** Schneider Electric Industries)

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|-----|-----------|------------------|---|------|
|     |           |                  | Name and Function                           | Visa |
| 0   | 27-Apr-21 | Creation         | T. LEDRESSEUR, Radio Technician             |      |

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**DESIGNATION OF PRODUCT:** ZB5SKR01 RFID compact station

**Serial number (S/N):** Without

**Reference / model (P/N):** ZB5SKR01

**Software version:** 1.05

**MANUFACTURER:** SCHNEIDER ELECTRIC INDUSTRIES

**COMPANY SUBMITTING THE PRODUCT:**

**Company:** SCHNEIDER ELECTRIC INDUSTRIES

**Address:** BLD SALVADOR ALLENDE  
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**Responsible:** Mr CORAZZA

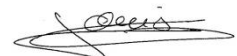
**Person present during the tests:** Mr LAVIGNE (the first day)

**DATE(S) OF TEST:** From 7-Oct-20 to 29-Jun-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:** S. LOUIS

**VISA:**



**WRITTEN BY:** S. LOUIS

## CONTENTS

|    | <i>TITLE</i>                    | <i>PAGE</i> |
|----|---------------------------------|-------------|
| 1. | <i>INTRODUCTION.....</i>        | <i>4</i>    |
| 2. | <i>PRODUCT DESCRIPTION.....</i> | <i>4</i>    |
| 3. | <i>NORMATIVE REFERENCE.....</i> | <i>5</i>    |
| 4. | <i>RF EXPOSURE.....</i>         | <i>5</i>    |

## 1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **ZB5SKR01 RFID compact station**, in accordance with normative reference.

The device under test integrates a RFID Radio part.

## 2. PRODUCT DESCRIPTION

|                           |                               |
|---------------------------|-------------------------------|
| Class:                    | B                             |
| Utilization:              | Tag and barcode reader        |
| Antenna type and gain:    | integrated antenna, 0dBi      |
| Operating frequency band: | From 13.110 MHz to 14.010 MHz |
| Channel spacing:          | Not concerned                 |
| Modulation:               | ASK                           |
| Power source:             | 24Vdc                         |

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 (2020)                               | Radio Frequency Devices   |
| ANSI C63.10                                 | 2013<br>Procedures for Compliance Testing of Unlicensed Wireless Devices.                             |
| 447498 D01 General RF Exposure Guidance v06 | RF Exposure procedures and equipment authorization policies for mobile and portable equipment         |
| OET BULLETIN 65                             | Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields |

### 4. **RF EXPOSURE**

#### MPE

Maximum measured power = 41.14 dB $\mu$ V/m = 0.0000433 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:

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

$$\Rightarrow 0.0000339 / (4 \times \pi \times (20 \text{ cm})^2) = 0.0000000861 \text{ mW/cm}^2 \text{ (limit = 0.978 mW/cm}^2)$$

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