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RF EXPOSURE TEST REPORT

KDB 447498 D01 V06
RSS-102 - Issue 6, December 2023

Company: **STID**
Address.....: 20 PARC D'ACTIVITES DES PRADEAUX
13850 GREASQUE
FRANCE

Test item description: **RFID radio module included in UHF RFID full range reader**
Trade Mark: Spectre Module Access / Spectre Lecteur Access
Manufacturer.....: STID
Model/Type reference.....: MUF / MUF included in SLA-W5X
FCC ID.....: OVNMF
IC: 10520A-MUF
Ratings.....: 9 VDC to 36 VDC

Testing Laboratory: **EMITECH MONTPELLIER laboratory**
Address.....: 145 rue de Massacan
34740 VENDARGUES
FRANCE

Report Reference No.....: **RE-EVE-24D574-9A**
Test procedure: FCC IC Certification
Diffusion.....: Mr BOALLAL
Applicant's name: STID
Date of issue.....: June 19, 2026
Total number of pages.....: 11
Revision: 0
Compiled by.....: Morgan PATEY
Approved by (+ signature).....: Olivier HEYER (Deputy Laboratory Manager)



*Duplication of this test report 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.*

REPORT INDEX:

1. GENERAL INFORMATIONS	3
2. REFERENCE DOCUMENT(S)	4
3. EQUIPMENT TECHNICAL DESCRIPTION	5
3.1. TEST CONDITIONS	5
3.2. E.U.T. MARKING PLATE	5
3.3. E.U.T. GENERAL VIEW	6
3.4. E.U.T. INTERNAL VIEW & ELECTRONIC BOARD	7
3.5. E.U.T. MECHANICAL AND ELECTRICAL DESIGN.....	7
3.6. E.U.T. INPUT/OUTPUT PORTS.....	8
3.7. SUPPORTING EQUIPMENT USED DURING TEST	9
3.8. EUT RADIO SPECIFICATIONS.....	10
4. RF EXPOSURE RFID	11

REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	June 19, 2026	/	Creation

1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **UHF RFID full range reader SLA-W5X** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

TESTING PROCEDURE AND TESTING LOCATION:					
Testing Location : EMITECH MONTPELLIER laboratory Address. : 145 rue de Massacan 34740 VENDARGUES FRANCE Test procedure. : FCC IC Certification Tested by : Morgan PATEY Test supervisor : None Date of receipt of test item : N/A Date (s) of performance of tests : From April the 18 th to September the 24 st of 2025					
APPLICANT'S GENERAL INFORMATIONS:					
Company name : STID Company address. : 20 PARC D'ACTIVITES DES PRADEAUX 13850 GREASQUE FRANCE Person(s) present during the tests. : No representative for company attended the tests. Responsible. : Mr BOALLAL					
GENERAL REMARKS:					
The information in <i>italics</i> is declared by the manufacturer and is under his responsibility The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report the decimal separator is point.					
POSSIBLE TEST CASE VERDICTS:					
Test case does not apply to the test object.: N/A Test case not performed.....: N/P Test object does meet the requirement.....: P (Pass) Test object does not meet the requirement. F (Fail) :					
DEFINITIONS AND ABBREVIATIONS:					
E.U.T.	Equipment Under Test	AE	Ancillary Equipment	Pk	Peak detector
RBW	Resolution BandWidth	VBW	Video BandWidth	QP	Quasi-peak detector
FSOATS	Free Space Open Area Test Site	FAR	Full Anechoic Room	Av	Average detector
VP	Vertical Polarization	HP	Horizontal Polarization	RMS	Root Mean Square
RF	Radio Frequency	N.T.R	Nothing To Report	N/C	Not Communicated
SAC	Semi Anechoic Chamber				

2. REFERENCE DOCUMENT(S)

NORMATIVE REFERENCES:

The following referenced documents are necessary for the application of the present test report.

FCC 47 CFR PART 15

Code of federal regulations – Title 47 telecommunication
Part 15- Radio frequency devices

KDB 447498 D01 v06

RF exposure procedures and equipment authorization policies for mobile and portable devices.

RSS-102 - Issue 6, December 2023

Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

RR-EVE-24D574-4A

Radio Test Report Emitech.

Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.

INFORMATIVE REFERENCES:

The following referenced documents are not necessary for the application of the present test report but they assist the user with regard to a particular subject area.

3. EQUIPMENT TECHNICAL DESCRIPTION

3.1. Test Conditions

Test item description. :	RFID radio module included in UHF RFID full range reader
Model/Type reference..... :	MUF / MUF included in SLA-W5X
Trade Mark. :	Spectre Module Access / Spectre Lecteur Access
Serial number (S/N)..... :	Not communicated
Part number (P/N). :	Not communicated
Software version..... :	<i>Not communicated</i>
Firmware version..... :	<i>Not communicated</i>
Type of sample. :	Pre-serial
Function(s)..... :	UHF RFID reader
Manufacturer name. :	STID
Address. :	20 PARC D'ACTIVITES DES PRADEAUX 13850 GREASQUE FRANCE

General product information:

N/A

3.2. E.U.T. Marking plate

The EUT didn't have its marking plate during testing.
Please refer to the certification documentations.

3.3.E.U.T. General view



3.4. E.U.T. Internal view & Electronic board



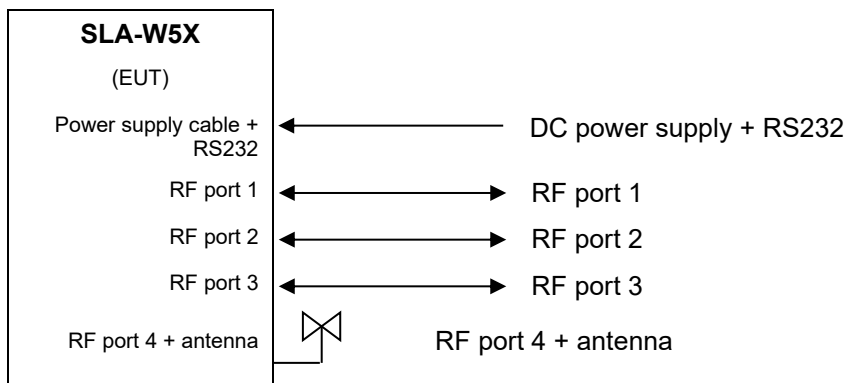
3.5. E.U.T. Mechanical and Electrical Design

Power supply.	: 12 VDC
Power supply range.	: 9 VDC to 36 VDC
Power type.	: DC
Power (W).	: Not communicated
Nominal current (A).	: 0.6
Dimensions (L x W x H) (m).	: 0.272 x 0.150 x 0.044
Weight (kg).	: <1.5kg
Temperature range (°C).	: -25 to +60
Ground bounding strap.	: No

Comments:

N/A

3.6.E.U.T. Input/Output ports



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Metallic	N/A
1	DC power supply + RS232	DC	> 3m	Shielded	12 VDC + RS232
2	RF port 1	RF	N/A	N/A	N/A
3	RF port 2	RF	N/A	N/A	N/A
4	RF port 3	RF	N/A	N/A	N/A
5	RF port 4 + antenna	RF	N/A	N/A	868 MHz

AC/DC : AC/DC Converter port AC: Alternative current port DC : Direct current port
I/O: Input or Output port TP.....: Telecommunication port RF..... : Radio frequency port
N/E: Non Electrical port

3.7. Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS
Laptop	XPS	Not communicated	Used to set EUT operation modes through RS232
AC/DC block	MEAN WELL	GE40I12-P1J	Used as EUT's power supply for AC main conducted measurement

LAPTOP (AE)



AC/DC BLOCK (AE)



3.8. EUT Radio Specifications

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	Transceiver
Technology	RFID UHF
Environmental profile.....	Data transmissions
Temperature range	-25°C to +60°C
Antenna type	Circular
Antenna Gain.....	9.68 dBi
Comments:	
All tests were conducted on the RF port identified as the worst-case (Port 4).	
Software Tx RF power was set to the value 290.	
b) TRANSMITTER PARAMETERS (Tx)	
Frequency bands.....	902 MHz to 928 MHz
RF Power.....	30 dBm (1 W)
Number of channels / Separation	50 / 500 kHz
Modulation type	AM
Duty cycle	Not communicated
Tested frequency	902.75 MHz (low channel)
	915.75 MHz (mid. channel)
	927.25 MHz (high channel)
c) RECEIVER PARAMETERS (Rx)	
Frequency bands.....	902 MHz to 928 MHz

4. RF EXPOSURE RFID

Maximum conducted power = 28.59 dBm (723 mW) at 927.25 MHz (see Radio test reports referenced in §2) and antenna + cable gain = 7.28 dBi.
Then maximum EIRP = 35.87 dBm (3.86 W) at 927.25 MHz

For USA

In accordance with OET Bulletin 65 Appendix A:

At 927.25 MHz, max permissive Power Density (S) is $f/1500 = 0.618 \text{ mW/cm}^2$ (General Population)

$$S = \frac{EIRP}{4 \cdot \pi \cdot d^2} \quad (\text{with } S \text{ in mW/cm}^2, \text{ EIRP in mW, } d \text{ in cm})$$

The user manual specifies that the distance between the device and the user must be at least **34 cm**.
Thanks to test report in §2 of this document and above information :

Configuration	Frequency (MHz)	Max EIRP (dBm)	Max S (mW/cm ²)	Limite S (mW/cm ²)
RFID Tx max	927.25	35.87	0.266	0.618

It is then not necessary to carry out other specific measures to assess human exposure to radiofrequencies when the product is used more than **34 cm** from the human body.

For Canada

In accordance with RSS-102, Issue 6, Section 5.3.2:

At 927.25 MHz, max permissive Power Density (S) is $0.02619 \times f^{0.6834} = 2.79 \text{ W/m}^2$ (General Population)

$$S = \frac{EIRP}{4 \cdot \pi \cdot d^2} \quad (\text{with } S \text{ in W/m}^2, \text{ EIRP in W, } d \text{ in m})$$

The user manual specifies that the distance between the device and the user must be at least **34 cm**.
Thanks to test report in §2 of this document and above information :

Configuration	Frequency (MHz)	Max EIRP (dBm)	Max S (W/m ²)	Limite S (W/m ²)
RFID Tx max	927.25	35.87	2.66	2.79

It is then not necessary to carry out other specific measures to assess human exposure to radiofrequencies when the product is used more than **34 cm** from the human body.

End of test report