



Test report issued under the responsibility of:  
EMITECH MONTPELLIER laboratory  
MRA US-EU Designation Number: FR0006  
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## RADIO TEST REPORT

FCC 47 CFR PART 15

FCC part 15.247

RSS-247\_Issue 2, February 2017

RSS-Gen, Issue 5, April 2018 / AMD 1: 2019 / AMD 2: 2021

**Company** .....: **STID**  
**Address**.....: 20 Parc d'activités des Pradeaux  
13850 GREASQUE  
FRANCE

**Test item description** .....: **RFID reader**  
**Trade Mark** .....: Spectre Nano  
**Manufacturer** .....: STID  
**Model/Type reference**.....: SNA / SNA-R52  
**FCC ID**.....: OVNSNA  
**IC** .....: 10520A-SNA  
**Ratings**.....: 10Vdc to 36Vdc

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

**Report Reference No** .....: **RR-EVE-21G105-2A**  
**Test procedure** .....: FCC IC Certification  
**Diffusion**.....: Mr Nicolas SOGOYAN  
**Applicant's name** .....: STID  
**Date of issue**.....: June 15, 2023  
**Total number of pages**.....: 52  
**Revision**.....: 0  
**Compiled by**.....: Célien FOUGEROLLE  
**Approved by (+ signature)**.....: Olivier HEYER (Laboratory Manager)



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**REVISION HISTORY:**

<b>Revision</b>	<b>Date</b>	<b>Modified pages</b>	<b>Modifications</b>
0	June 15, 2023	/	Creation

## 1. GENERAL INFORMATIONS

This document submits the results of Radio tests performed on the equipment **SNA-R52** (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 .....	Alexis TOUZET, Célien FOUGEROLLE and Morgan PATEY				
Test supervisor .....	N/A				
Date of receipt of test item.....	N/A				
Date (s) of performance of tests.....	Between october, the 15 <sup>th</sup> of 2021 to June the 30 <sup>th</sup> of 2022				
APPLICANT'S GENERAL INFORMATIONS:					
Company name .....	STID				
Company address. ....	20 Parc d'activités des Pradeaux 13850 GREASQUE FRANCE				
Person(s) present during the tests. ....	Mr SOGOYAN Nicolas				
Responsible.....	Mr SOGOYAN Nicolas				
GENERAL REMARKS:					
<p><b>The information in italics is declared by the manufacturer and is under his responsibility</b>  <b>The test results presented in this report relate only to the object tested.</b>  <b>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.</b></p> <p>"(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.</p>					
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
OATS	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

## 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: April 2020**

Code of federal regulations. Title 47- Telecommunication Chapter 1- Federal Communication Commission. Part 15- Radio frequency devices Subpart B- Unintentional Radiators. Limits and methods of measurement of radio disturbance. Characteristic of information technology equipment.

**FCC part 15.247**

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850MHz. (frequency hopping and digitally modulated)

**RSS-247\_Issue 2, February 2017**

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence Exempt Local Area Network (LE-LAN) Devices

**RSS-Gen, Issue 5, April 2018 / AMD 1: 2019 / AMD 2: 2021**

General requirements and information relating to the certification of radiocommunication equipment

**ANSI C 63.10 : 2013**

American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

**ANSI C63.4 : 2014**

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

**KDB 447498 D01 General RF Exposure Guidance v06**

RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Device.

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.



### 3.3. EUT General view



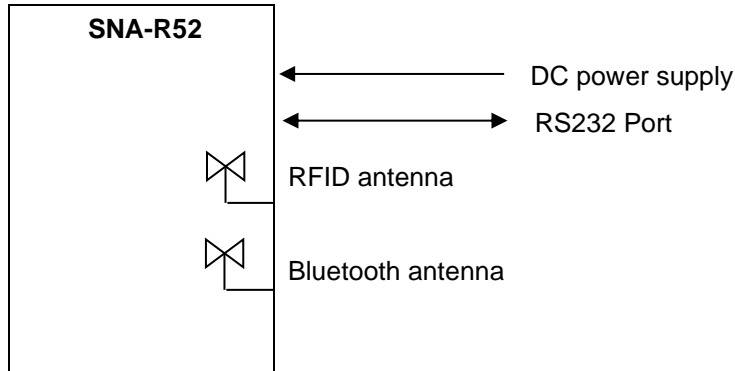
### 3.4. EUT Mechanical and Electrical Design

Power supply.....	: 12Vdc
Power supply range.....	: 10Vdc to 36Vdc
Power type.....	: DC power supply
Power (W).....	: <15
Nominal current (A).....	: 0.9
Dimensions (L x W x H) (m).....	: 0.23*0.185*0.035
Weight (kg).....	: 1.25
Temperature range (°C).....	: -30 / +60
Ground bounding strap.....	: No

**Comments:**

N/A

### 3.5. EUT Input/Output ports



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Plastic	N/A
1	DC power supply	DC	N/C	Shielded	12Vdc
2	RS232 Port	I/O	N/C	Shielded	N/A
3	RFID antenna	N/A	N/A	N/A	N/A
3	Bluetooth antenna	N/A	N/A	N/A	N/A

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

### 3.6. Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS
Laptop	Dell	Latitudfe 5510	Used to set EUT in test mode through RS232 port
AC/DC adaptor	Mean Well	GE40I12P1J	Used as power supply for AC power-line conducted emissions measurments

#### (AE) LAPTOP



#### (AE) AC/DC ADAPTOR





### 3.7. EUT Radio Specifications

<b>a) GENERAL INFORMATIONS</b>	
According to manufacturer's declarations :	
EUT type.....	: <i>Transceiver</i>
Technology .....	: <i>RFID UHF</i>
Environmental profile.....	: <i>Data transmissions</i>
Temperature range.....	: <i>-30°C / +60°C</i>
Antenna type .....	: <i>Integrated</i>
Antenna Gain.....	: <i>2dBi</i>
<b>Comments:</b>	
<i>N/A</i>	
<b>b) TRANSMITTER PARAMETERS (Tx)</b>	
Frequency bands.....	: <i>902MHz to 928MHz</i>
RF Power.....	: <i>Not communicated</i>
Number of channels / Separation.....	: <i>50 cchannels / 500kHz</i>
Modulation type .....	: <i>ASK</i>
Duty cycle .....	: <i>Not communicated</i>
Tested frequency.....	: <i>Low channel : 902.75MHz</i> <i>Mid channel : 915.25MHz</i> <i>High channel : 927.25MHz</i>
<b>c) RECEIVER PARAMETERS (Rx)</b>	
Frequency bands.....	: <i>902MHz to 928MHz</i>
Bandwidth.....	: <i>Not communicated</i>

#### 4. RESULT SUMMARY

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
<b>SUBPART A - GENERAL</b>			
Measurement standards		PASS	15.31
Frequency range of radiated measurements		PASS	15.33
Measurement detector functions and bandwidths		PASS	15.35
<b>SUBPART B – UNINTENTIONAL RADIATORS</b>			
Conducted limits	Class B	PASS	15.107
Radiated emission limits	Class B	PASS	15.109
<b>SUBPART C –INTENTIONAL RADIATORS</b>			
Equipment authorization requirement		PASS	15.201 / Transmitter part is subject to Certification procedure
Antenna requirement		PASS	15.203 / Dedicated integral antenna
Restricted bands of operation		PASS	15.204
Conducted limits	Class B	PASS	15.207
Radiated emission limits; general requirements	Class B	PASS	15.209
Additional provisions to the general radiated emission limits		PASS	15.215
Operation within the band 902-928MHz, 2400-2483.5MHz and 5725-5850MHz			15.247
- Frequency hopping and digitally modulated		-	a)
- Frequency hopping system		PASS	a) (1)
- Digital modulation system		N/A	a) (2)
- Maximum peak conducted output power		-	b)
- For hopping system in the 2400-2483.5 MHz and 5725-5850 MHz bands		N/A	b) (1)
- For hopping system in the 902-928MHz band		PASS	b) (2)
- For system using digital modulation in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands		N/A	b) (3)
- Operation with directional antenna gains > 6 dBi		N/A	c)
- Out-of-band emissions		PASS	d)
- Power spectral density conducted		N/A	e)
- Hybrid system		N/A	f)
- Frequency hopping additional requirements		PASS	g)
- Frequency hopping intelligence		PASS	h)
- RF exposure compliance		PASS	i)

Sample subject to the test complies with the requirements of the reference document(s) listed in §2 of this test report and, where applicable, with deviation(s) specified in this document.

To declare, or not, the compliance with the specifications, it was not explicitly taken account of uncertainty associated with the results.

## 5. MEASUREMENT UNCERTAINTY

PARAMETER	MAXIMAL EMITECH UNCERTAINTY	MINIMAL STANDARD UNCERTAINTY
Radio frequency	$\pm 1 \times 10^{-7}$	$\pm 1 \times 10^{-7}$
RF power, conducted		
Power spectral density	$\pm 2.3\text{dB}$	$\pm 3\text{ dB}$
Occupied bandwidth		
RF power	$\pm 3.8\%$	$\pm 5\%$
Conducted emission (spurious)		
$f \leq 1\text{ GHz}$	$\pm 0.8\text{ dB}$	
1 GHz - 12.75 GHz	$\pm 1.6\text{ dB}$	$\pm 3\text{ dB}$
Radiated emission (ERP / EIRP)		
$f \leq 62.5\text{ MHz}$	$\pm 5.1\text{ dB}$	$\pm 6\text{ dB}$
62.5 MHz - 1 GHz	$\pm 5.1\text{ dB}$	$\pm 6\text{ dB}$
1 GHz - 18 GHz	$\pm 5.2\text{ dB}$	$\pm 6\text{ dB}$
18 GHz – 26 GHz	$\pm 5.1\text{ dB}$	$\pm 6\text{ dB}$
26 GHz – 40 GHz	$\pm 5.4\text{ dB}$	$\pm 6\text{ dB}$
Radiated emission (magnetic field)		
9kHz – 30MHz	$\pm 3\text{ dB}$	$\pm 6\text{ dB}$
Supply voltages	$\pm 3\%$	$\pm 3\%$
Temperature	$\pm 1\text{ °C}$	$\pm 1\text{ °C}$
Humidity	$\pm 5\%$	$\pm 5\%$
Time / Duty cycle	$\pm 4.4\%$	$\pm 5\%$
Adaptivity	$\pm 2.9\text{ dB}$	/
Conducted emission (FCC)		
(Artificial Mains Network) 150kHz – 30MHz	$\pm 3.4\text{ dB}$	$\pm 3.4\text{ dB}$
Radiated emission (electric field for FCC standard)		
9kHz – 30MHz	$\pm 2.7\text{ dB}$	/
30MHz – 1GHz	$\pm 5.0\text{ dB}$	/
1GHz – 18GHz	$\pm 5.6\text{ dB}$	/
18GHz – 26GHz	$\pm 5.7\text{ dB}$	/
26GHz – 40GHz	$\pm 5.7\text{ dB}$	/

For the calculation of expanded uncertainty, the confidence interval is 95 % (k=2).

## 6. RF EXPOSURE

RF EXPOSURE – TABULATED RESULT		
FREQUENCY (MHz)	MAXIMUM EIRP (dBm)	MAXIMUM EIRP (mW)
915.25	27.1	512.86
In accordance with KDB 447498 D01 General RF Exposure Guidance v06: $PSD = \frac{EIRP_{mW}}{4 \times \pi \times d^2}$ <p><i>d</i> : distance of use in centimeter</p> $PSD = \frac{512.86}{4 \times \pi \times 20cm^2}$		
RESULT	LIMIT	
0.102 mW/cm <sup>2</sup>	0.61 mW/cm <sup>2</sup>	

## 7. TEST CONDITIONS AND RESULTS

### 7.1. AC power-line conducted emissions

<b>Reference standard:</b>	FCC part 15.207 RSS-Gen
<b>Test method:</b>	ANSI C63.10 : 2013 ANSI C63.4 : 2014
<p><b>General test setup:</b> EUT is set on an insulating support at 40cm from the ground reference plane. All power was connected to the system through Artificial Mains Network (AMN). The AMN is placed at 80cm from the boundary of the EUT and bonded to a ground reference plane.</p> <p>All tested telecommunications lines (if applicable) were connected to an Asymmetric Artificial Network (AAN) and conducted voltage measurements on telecommunications lines were made at the output of the AAN.</p> <p>Where an AAN was not appropriate or available, measurements were made using a Capacitive Voltage Probe and/or a Current probe.</p> <p>Additional ground terminals (if any) are connected to earth terminal of the AMN.</p>	

TESTED CABLE	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
120Vac/60Hz	150kHz-30MHz	15.207	EMI4932	<b>PASS</b>

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	30 to 60 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
<b>Test method deviation:</b> N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
AC power source	KIKUSUI	PCR 4000L	3074	24/07/2020	24/09/2022
Cable	EMITECH	Current absorber sheath	9491	23/06/2020	23/08/2022
Cable	C&C	N-3m	14335	18/03/2021	18/05/2023
LISN	Rohde & Schwarz	ENV216	17925	24/09/2021	24/11/2023
PE choke	EMITECH	CISPR 16-2-1 : 2008	10071		
Multimeter	FLUKE	8808A	12446	29/09/2020	29/11/2021
Receiver	Rohde & Schwarz	ESI	9704	24/08/2021	24/10/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H2	12268	07/05/2020	07/07/2022
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

**TEST SETUP PHOTO(S) - 120VAC/60HZ**

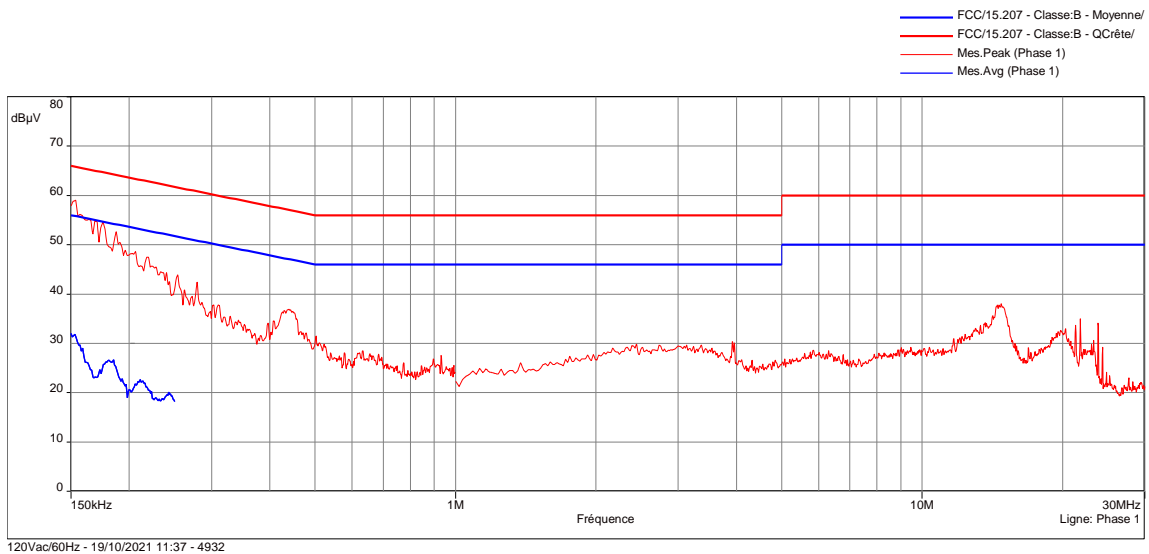
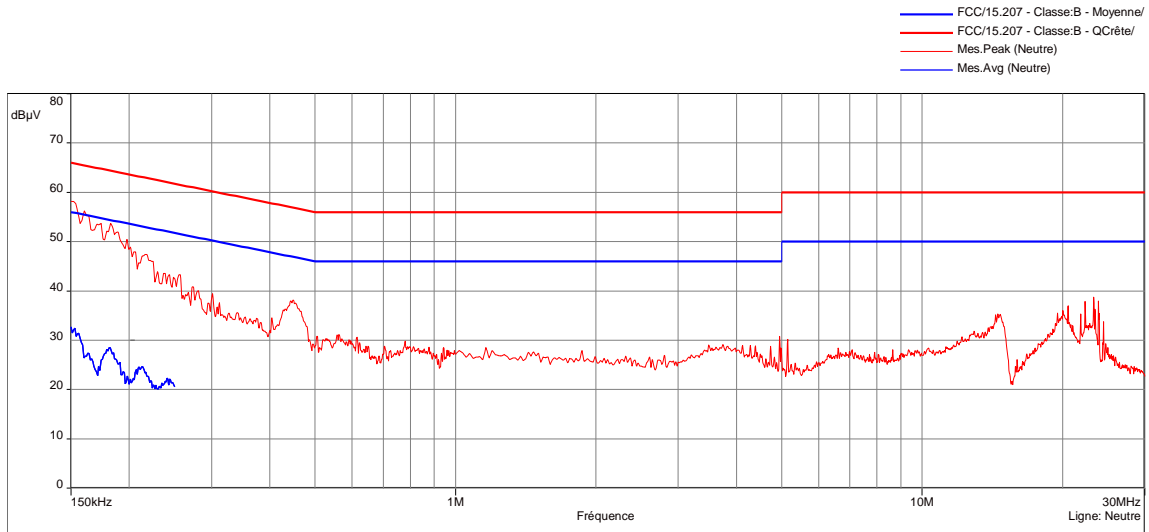
**CONDUCTED LIMITS - TABULATED RESULTS**

120VAC/60Hz						EMI4932	
Terminal	Test Frequency (MHz)	Meter Reading dB (μV)	Detector (Pk/QP/Av)	Gain/Loss Factor (dB)	Level dB (μV)	Limit dB (μV)	Margin (dB)
Neutral	0.15	N/A	AV	N/A	32.69	56	-23.31
Phase 1	0.15	N/A	AV	N/A	31.99	56	-24.01

Supplementary information: when margin between peak measurements and average/quasi-peak limit(s) is > 6dB, no average/quasi-peak measurements were performed.

Spurious which have more than 20 dB of margin compared to the applicable limit are not necessarily reported.

CONDUCTED LIMITS - GRAPH			
120VAC/60Hz		EMI4932	
<b>EUT mode:</b>	Tx mode	<b>T (°C):</b>	24.5
<b>Test Date:</b>	19/10/2021	<b>H (%):</b>	50.7
<b>Test Operator:</b>	ATO	<b>P (hPa):</b>	1018



POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Neutral	150kHz-1MHz	10kHz	30kHz	Peak
Neutral	1MHz-10MHz	10kHz	30kHz	Peak
Neutral	10MHz-30MHz	10kHz	30kHz	Peak
Phase 1	150kHz-1MHz	10kHz	30kHz	Peak
Phase 1	1MHz-10MHz	10kHz	30kHz	Peak
Phase 1	10MHz-30MHz	10kHz	30kHz	Peak
Neutral	150kHz-250kHz	10kHz	30kHz	Average
Phase 1	150kHz-250kHz	10kHz	30kHz	Average

**Measure with:** A.M.N.

**Comments:** N/A

EUT modification(s): N/A

## 7.2. Occupied Bandwidth

<b>Reference standard:</b>	FCC part 15.247 RSS-247
<b>Test method:</b>	ANSI C63.10 : 2013
<p><b>Test description:</b> The occupied bandwidth (OBW) is the Frequency Range in which 99 % of the total mean power of a given emission falls. The residual part of the total power being denoted as <math>\beta</math>, which, in cases of symmetrical spectra, splits up into <math>\beta/2</math> on each side of the spectrum. Unless otherwise specified, <math>\beta/2</math> is taken as 0,5 %.</p> <p>The maximum occupied bandwidth includes all associated side bands above the appropriate emissions level and the frequency error or drift under extreme test conditions.</p> <p>EUT is connected to the measuring receiver via 50<math>\Omega</math> attenuator(s).</p>	


TESTED CHANNEL	OBW	SEVERITY	RESULT TAB.	VERDICT
Low channel	62.448 kHz	< 250 kHz	EMI4789	<b>PASS</b>
Mid channel	61.467 kHz	< 250 kHz	EMI4954	<b>PASS</b>
High channel	64.390 kHz	< 250 kHz	EMI4955	<b>PASS</b>

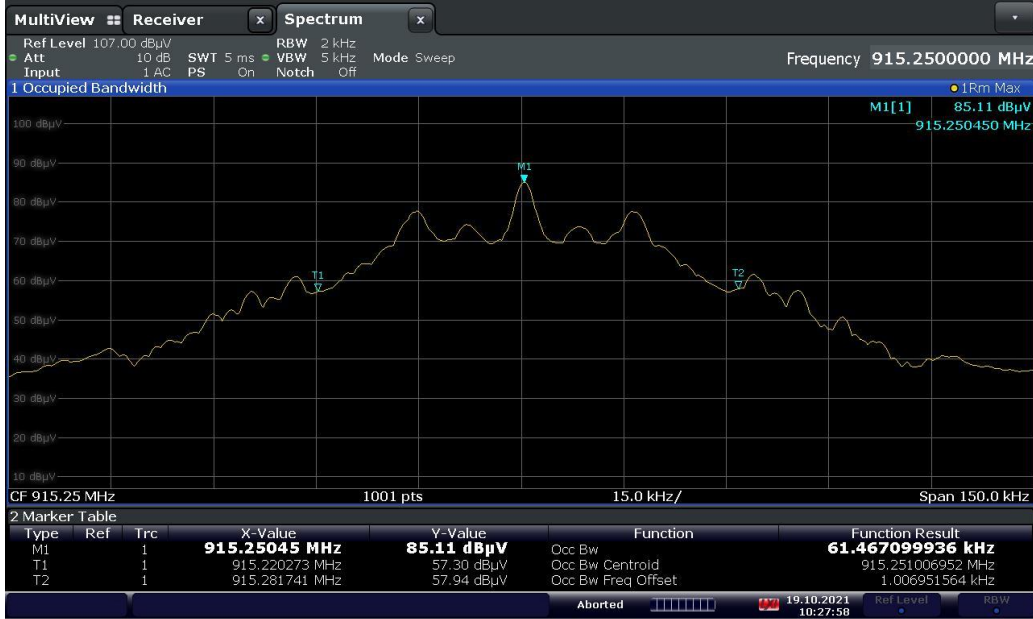
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	21.4 °C
Relative Humidity	20 to 75 %	59.3 %
Atmospheric pressure	N/A	1018 hPa
<b>Test method deviation:</b> N/A		
Supplementary information: N/A		

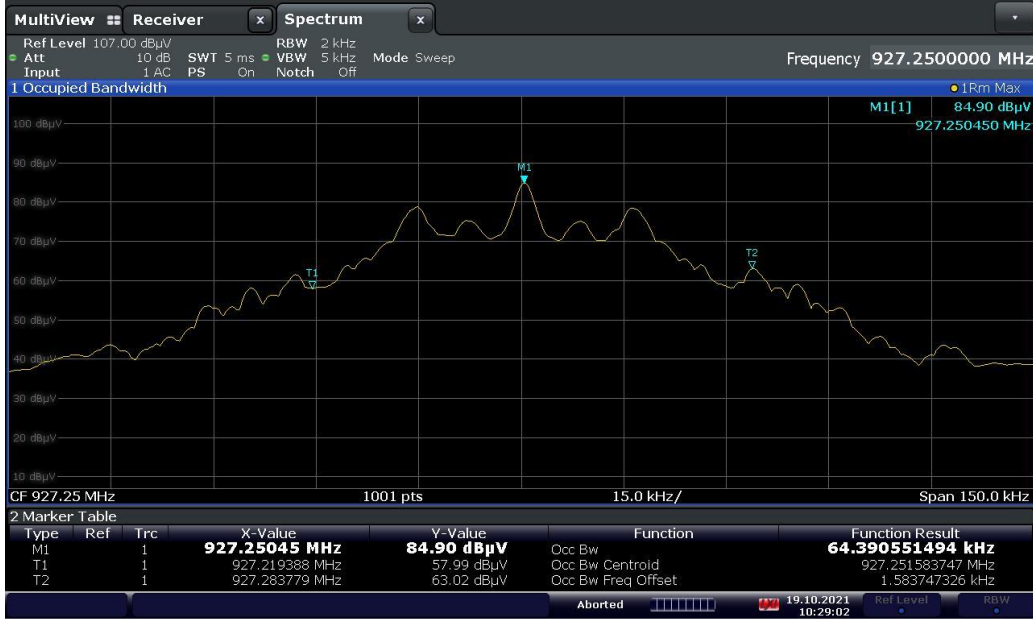
TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Cable	SUCOFLEX	N-6,5m	14380	25/07/2019	25/03/2022
Cable	MegaPhase	N-8m	15813	14/01/2021	14/03/2023
Cable	MegaPhase	TM18-N1N1-118	12842	02/12/2020	02/02/2023
Multimeter	FLUKE	8808A	12446	29/09/2020	29/11/2021
Power supply	TTI	TSX-1820P	4365		
Shielded enclosure	COMTEST	SAC 3m	14494	02/10/2019	02/12/2022
Spectrum analyzer	Rohde & Schwarz	ESW26	17791	14/04/2021	14/06/2022
Thermohygrometer	Testo	608-H2	12269	07/05/2020	07/07/2022
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

Blank cells = Permanent validity



OCCUPIED BANDWIDTH - GRAPH			
LOW CHANNEL		EMI4789	
EUT mode:	Continuous modulated Tx	T (°C):	21.4
Test Date:	19/10/2021	H (%):	59.3
Test Operator:	ATO	P (hPa):	1018
 <p>10:25:55 19.10.2021</p>			
<b>Results:</b>	The system has an OBW of 62.448 kHz		
EUT modification(s): N/A			

OCCUPIED BANDWIDTH - GRAPH			
MID CHANNEL		EMI4954	
EUT mode:	Continuous modulated Tx	T (°C):	21.4
Test Date:	19/10/2021	H (%):	59.3
Test Operator:	ATO	P (hPa):	1018
 <p>10:27:58 19.10.2021</p>			
<b>Results:</b>	The system has an OBW of 61.467 kHz		
EUT modification(s): N/A			

OCCUPIED BANDWIDTH - GRAPH			
HIGH CHANNEL		EMI4955	
EUT mode:	Continuous modulated Tx	T (°C):	21.4
Test Date:	19/10/2021	H (%):	59.3
Test Operator:	ATO	P (hPa):	1018
 <p>10:29:03 19.10.2021</p>			
<b>Results:</b>	The system has an OBW of 64.390 kHz		
EUT modification(s): N/A			

### 7.3. Number of channels, 20 dB bandwidth, and average time of occupancy

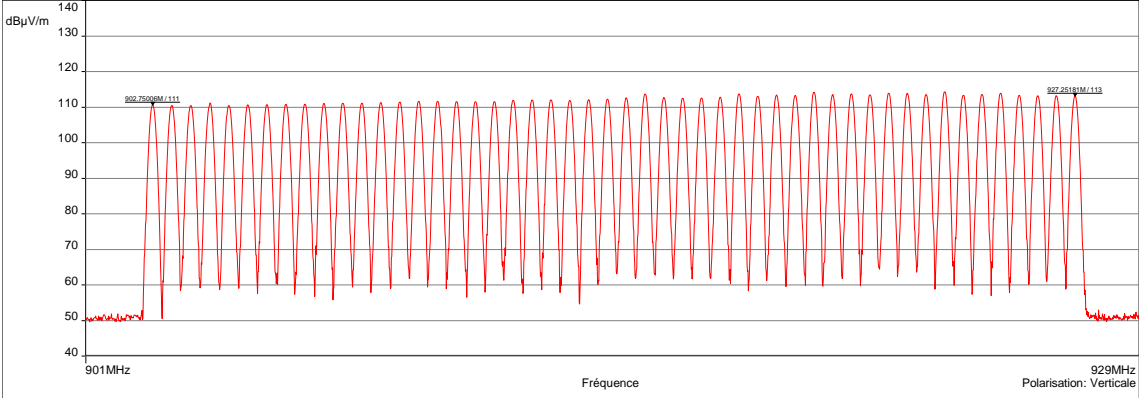
<b>Reference standard:</b>	FCC part 15.247 RSS-247
<b>Test method:</b>	ANSI C63.10 : 2013
<b>Test description:</b> (a) (1) (i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.	

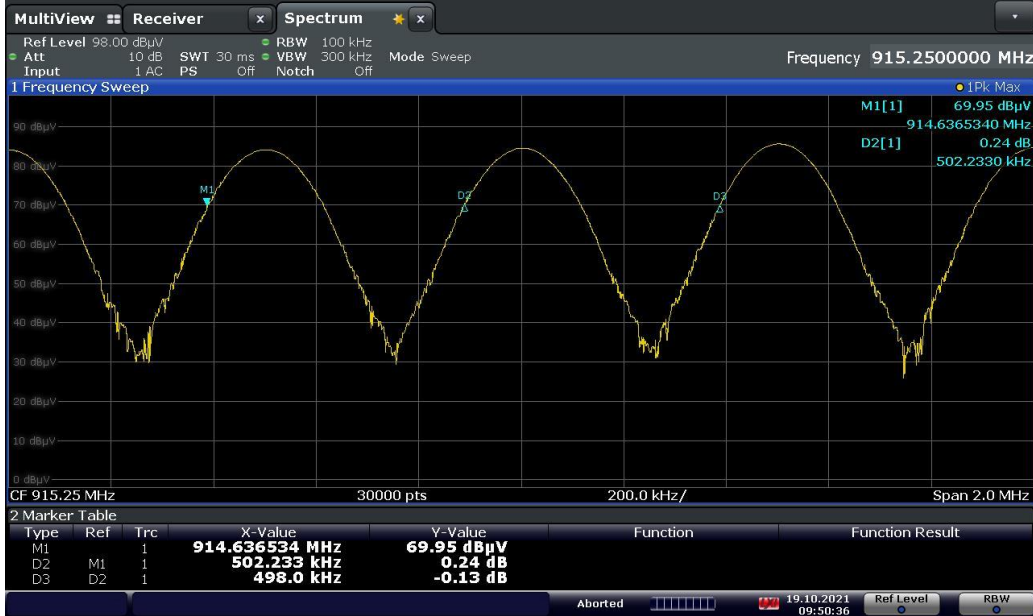
TESTED PARAMETER	RESULT	SEVERITY	RESULT TAB.	VERDICT
Number of channels	50 channels	≥ 50 channels	EMI4911	<b>PASS</b>
Channels separation	502kHz	≥20dB bandwidth	EMI4959	<b>PASS</b>
20 dB bandwidth / Low channel	47.95 kHz	< 250 kHz	EMI4956	<b>PASS</b>
20 dB bandwidth / Mid channel	47.35 kHz	< 250 kHz	EMI4957	<b>PASS</b>
20 dB bandwidth / High channel	47.95 kHz	< 250 kHz	EMI4958	<b>PASS</b>
Average time of occupancy	395.38 ms / 20 s	≤ 400 ms / 20 s	EMI4960	<b>PASS</b>


LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(es)
Relative Humidity	20 to 75 %	See Graph(es)
Atmospheric pressure	N/A	See Graph(es)
<b>Test method deviation:</b> N/A		
Supplementary information: N/A		


TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Cable	SUCOFLEX	N-6,5m	14380	25/07/2019	25/03/2022
Cable	MegaPhase	N-8m	15813	14/01/2021	14/03/2023
Cable	MegaPhase	TM18-N1N1-118	12842	02/12/2020	02/02/2023
Multimeter	FLUKE	8808A	12446	29/09/2020	29/11/2021
Power supply	TTI	TSX-1820P	4365		
Shielded enclosure	COMTEST	SAC 3m	14494	02/10/2019	02/12/2022
Spectrum analyzer	Rohde & Schwarz	ESW26	17791	14/04/2021	14/06/2022
Thermohygrometer	Testo	608-H2	12269	07/05/2020	07/07/2022
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

Blank cells = Permanent validity


NUMBER OF CHANNELS FOR FREQUENCY HOPPING SYSTEMS - GRAPH					
NUMBER OF CHANNELS			EMI4911		
<b>EUT mode:</b>	Tx hopping mode			<b>T (°C):</b>	21.4
<b>Test Date:</b>	25/11/2021			<b>H (%):</b>	59.3
<b>Test Operator:</b>	ATO			<b>P (hPa):</b>	1018
<p>Description Sous-bande 1            Fréquences: 901 MHz - 929 MHz (Mode analyseur) 30000 Points            Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : 10 dB, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off            Polarisation: Verticale            Distance: 3 m</p> <p style="text-align: right;"> <span style="color: blue;">—</span> FCC/15.247 d) Band Edge - Classe:Tx - Moyenne/3.0m/  <span style="color: green;">—</span> FCC/15.247 d) Band Edge - Classe:Tx - Crête/3.0m/  <span style="color: red;">—</span> Mes. Peak (Verticale)         </p>  <p style="text-align: center;">Number of channels - 4911</p>					
POSITION	FREQUENCIES	RBW	VBW	DETECTOR	
N/A	901.MHz-929MHz	100kHz	300kHz	Peak	
<b>Configuration:</b>	N/A				
<b>Comments:</b>	The system uses 50 channels				
EUT modification(s): N/A					

NUMBER OF CHANNELS FOR FREQUENCY HOPPING SYSTEMS - GRAPH				
CHANNELS SEPARATION				EMI4959
<b>EUT mode:</b>	Tx hopping mode			<b>T (°C):</b> 21.4
<b>Test Date:</b>	19/10/2021			<b>H (%):</b> 59.3
<b>Test Operator:</b>	ATO			<b>P (hPa):</b> 1018
 <p>09:50:37 19.10.2021</p>				
EUT modification(s): N/A				
<b>POSITION</b>	<b>FREQUENCIES</b>	<b>RBW</b>	<b>VBW</b>	<b>DETECTOR</b>
N/A	914.25MHz-916.25MHz	100kHz	300kHz	Peak
<b>Configuration:</b>	N/A			
<b>Comments:</b>	The channels separation is 500 kHz			
EUT modification(s): N/A				

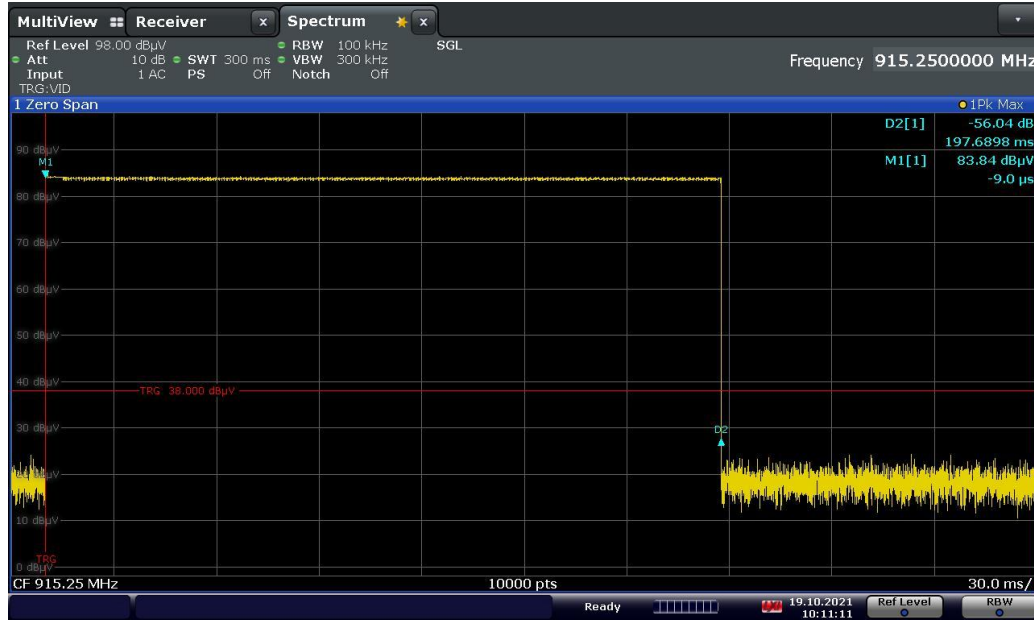
20 dB BANDWIDTH FOR FREQUENCY HOPPING SYSTEMS - GRAPH			
20dB BANDWIDTH - LOW CHANNEL			EMI4956
EUT mode:	Continuous modulated Tx	T (°C):	21.4
Test Date:	19/10/2021	H (%):	59.3
Test Operator:	ATO	P (hPa):	1018
 <p>10:37:33 19.10.2021</p>			
<b>Results:</b>	The system has an OBW of 47.95 kHz		
EUT modification(s): N/A			

20 dB BANDWIDTH FOR FREQUENCY HOPPING SYSTEMS - GRAPH			
20dB BANDWIDTH - MID CHANNEL			EMI4957
EUT mode:	Continuous modulated Tx	T (°C):	21.4
Test Date:	19/10/2021	H (%):	59.3
Test Operator:	ATO	P (hPa):	1018
 <p>10:39:27 19.10.2021</p>			
<b>Results:</b>	The system has an OBW of 47.35 kHz		
EUT modification(s): N/A			

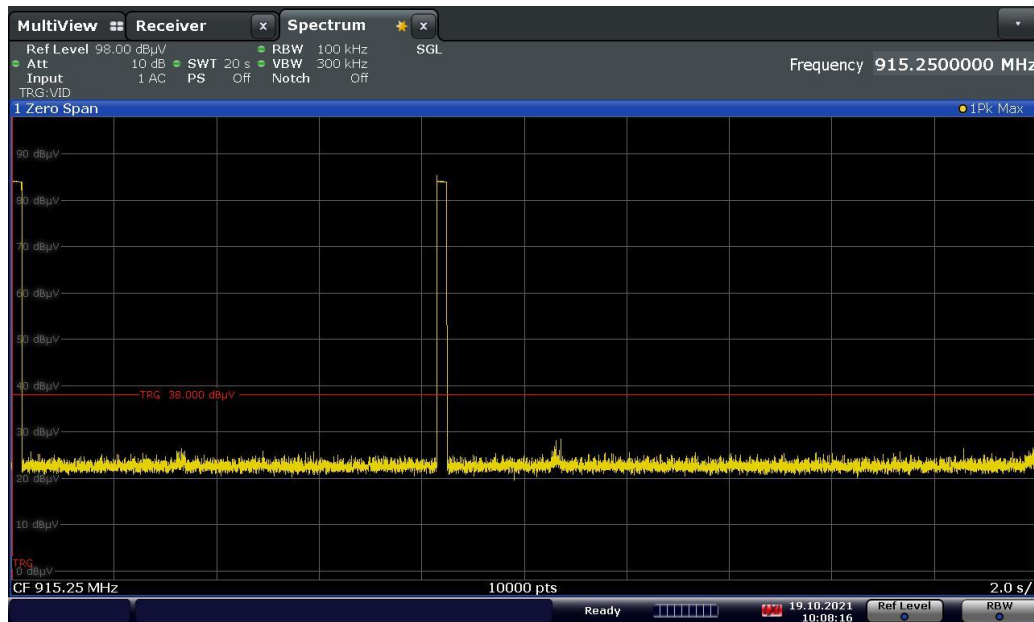


20 dB BANDWIDTH FOR FREQUENCY HOPPING SYSTEMS - GRAPH			
20dB BANDWIDTH - HIGH CHANNEL			EMI4958
EUT mode:	Continuous modulated Tx	T (°C):	21.4
Test Date:	19/10/2021	H (%):	59.3
Test Operator:	ATO	P (hPa):	1018
 <p>10:41:27 19.10.2021</p>			
<b>Results:</b>	The system has an OBW of 47.95 kHz		
EUT modification(s): N/A			

OCCUPANCTION TIME FOR FREQUENCY HOPPING SYSTEMS - GRAPH			
OCCUPATION TIME			EMI4960
EUT mode:	Tx hopping mode		T (°C): 21.4
Test Date:	19/10/2021		H (%): 59.3
Test Operator:	ATO		P (hPa): 1018



10:11:11 19.10.2021



10:08:17 19.10.2021

<b>Results:</b>	The worst case average time is 395.38ms in a period of 20s.
EUT modification(s): N/A	

## 7.4. Radiated spurious emissions

<b>Reference standard:</b>	FCC part 15.209, 15.205, 15.247 RSS-247, RSS-Gen
<b>Test method:</b>	ANSI C63.10 : 2013
<p><b>General test setup:</b> For <math>f &lt; 30\text{MHz}</math>, EUT is set on an insulating support at 80cm above the ground reference plane.</p> <p>Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter in a semi-anechoic chamber. The EUT was rotated <math>360^\circ</math> in order to maximize radiated levels. Test antenna was oriented in 3 axes (<math>0^\circ</math>, <math>45^\circ</math> and <math>90^\circ</math>).</p> <p>Final measurements (quasi-peak) were then performed in a 10-meter Open Area Test Site that complies to CISPR 16 in the same measurement conditions.</p> <p>For <math>f &gt; 30\text{MHz}</math>, EUT is set on an insulating support at 80cm above the ground reference plane (150cm for <math>f &gt; 1\text{GHz}</math>).</p> <p>Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated <math>360^\circ</math> about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities.</p> <p>Final measurements (quasi-peak or average) were then performed in a semi-anechoic chamber or Open Area Test Site that complies to CISPR 16. The EUT was rotated <math>360^\circ</math> about its azimuth and adjusting the receive antenna height from 1 to 4 m.</p> <p>All frequencies were investigated, where applicable.</p> <p>For portable equipments a research of maximum level is done on the 3 axes. Only the highest levels are recorded.</p>	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Tx mode - All channels - $0^\circ$	9kHz-30MHz	15.209	EMI4907	<b>PASS</b>
Tx mode - All channels - $45^\circ$	9kHz-30MHz	15.209	EMI4908	<b>PASS</b>
Tx mode - All channels - $90^\circ$	9kHz-30MHz	15.209	EMI4909	<b>PASS</b>
Tx mode - Low channel - For freq $< 1\text{GHz}$	30MHz-1GHz	15.209	EMI4865	<b>PASS</b>
Tx mode - Mid channel - For freq $< 1\text{GHz}$	30MHz-1GHz	15.209	EMI4864	<b>PASS</b>
Tx mode - High channel - For freq $< 1\text{GHz}$	30MHz-1GHz	15.209	EMI4866	<b>PASS</b>
Tx mode - All channels - For freq $> 1\text{GHz}$	1GHz-10GHz	15.209	EMI4831	<b>PASS</b>

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	20 to 75 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)

**Test method deviation:** N/A

Supplementary information: From 9 kHz to 30MHz: limit indicated on the curves is calculated with 40 dB/decade extrapolation factor and 51.5 dB conversion factor.

From 30MHz to 1GHz Quasi peak limit provided is the limit given in §15.209.

Above 1GHz average limit in restricted bands §15.205 is 54dB $\mu\text{V}/\text{m}$ . Otherwise, the limit is 20dB under carrier emission level at 3m without averaging.

TEST EQUIPMENT USED – 9KHZ TO 30MHZ					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
AC power source	KIKUSUI	PCR2000L	0800		
Antenna	Rohde & Schwarz	HFH2-Z2	5825	24/04/2020	24/06/2022
Cable	SUCOFLEX	N-6,5m	14380	23/08/2021	23/10/2023
Cable	MegaPhase	N-8m	15813	14/01/2021	14/03/2023
Cable	MegaPhase	TM18-N1N1-118	12842	02/12/2020	02/02/2023
Multimeter	FLUKE	8808A	12446	29/09/2020	29/11/2021
Receiver	Rohde & Schwarz	ESW26	17791	14/04/2021	14/06/2022
Shielded enclosure	COMTEST	SAC 3m	14494	02/10/2019	02/12/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H2	12269	07/05/2020	07/07/2022
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

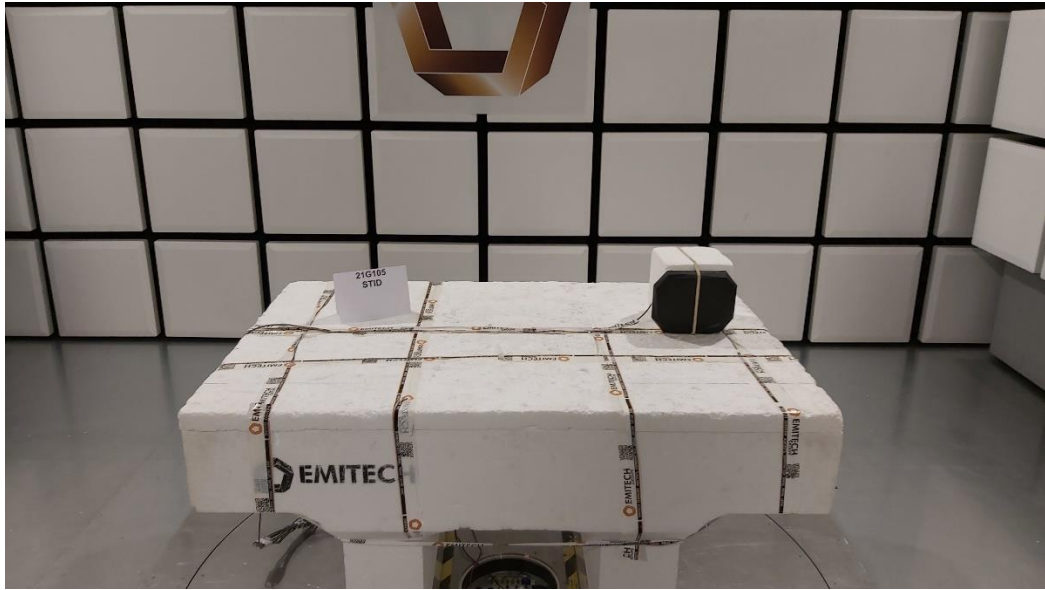
Blank cells = Permanent validity

TEST EQUIPMENT USED – 30MHZ TO 10GHZ					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
AC power source	KIKUSUI	PCR2000L	0800		
Antenna	ETS-Lindgren	3117	8387	23/07/2019	23/09/2022
Antenna	Electro Metrics	BIA-30HF	0824	22/08/2021	22/10/2024
Antenna	Rohde & Schwarz	HL223	3126	21/08/2021	21/10/2024
Cable	MegaPhase	F135N1N28	16664	24/10/2019	24/12/2021
Cable	MegaPhase	F135N1N28	16666	24/10/2019	24/12/2021
Cable	/	N-1m	3625	27/01/2021	27/03/2023
Cable	/	N-1m	3626	27/01/2021	27/03/2023
Cable	SUCOFLEX	N-3m	14378	23/08/2021	23/10/2023
Cable	SUCOFLEX	N-3m	14379	23/08/2021	23/10/2023
Cable	SUCOFLEX	N-6,5m	14380	23/08/2021	23/10/2023
Cable	MegaPhase	N-8m	15813	14/01/2021	14/03/2023
Cable	Huber + Suhner	SF102K	16042	24/03/2021	24/05/2023
Cable	MegaPhase	TM18-N1N1-118	12842	02/12/2020	02/02/2023
Filter	Micro-Tronics	HPM18865	12843	24/08/2021	24/10/2024
Filter	Wainwright Instruments	WRCGV 2402/2480- 2380/2500- 40/10EE-200W	9771	07/01/2019	07/03/2022
Multimeter	FLUKE	8808A	12446	29/09/2020	29/11/2021
Power supply	TTI	TSX-1820P	4365		
Preamplifier	IMPULSE	CA118-546ACN	9169	13/01/2021	13/03/2022
Receiver	Rohde & Schwarz	ESW26	17791	14/04/2021	14/06/2022
Receiver	Rohde & Schwarz	FSW43	14830	29/07/2020	29/09/2022
Shielded enclosure	RAY PROOF	C.V1	1123	19/08/2021	19/10/2024
Shielded enclosure	COMTEST	SAC 3m	14494	02/10/2019	02/12/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H1	7561	26/01/2019	26/03/2022
Thermohygrometer	Testo	608-H2	12269	07/05/2020	07/07/2022
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

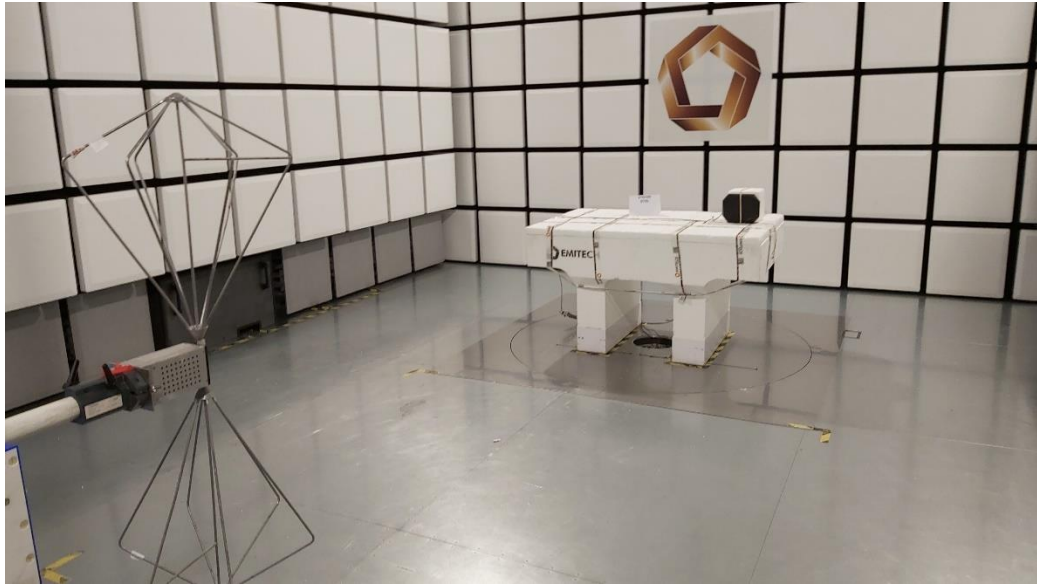
**TEST SETUP PHOTO(S) – EUT POSITIONS**

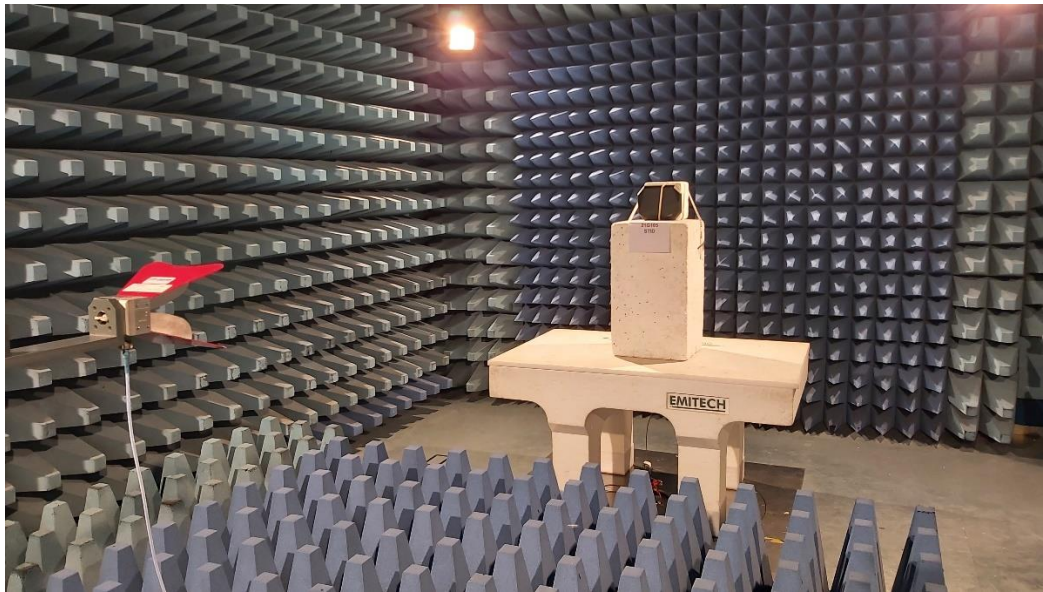


**TEST SETUP PHOTO(S) – RADIATED MEASUREMENT FROM 9KHZ TO 30MHZ**



TEST SETUP PHOTO(S) – RADIATED MEASUREMENT FROM 30MHZ TO 1GHZ



**TEST SETUP PHOTO(S) – RADIATED MEASUREMENT FROM 1GHZ TO 10GHZ**

**RADIATED EMISSION LIMITS – TABULATED RESULTS**
**TX MODE - ALL CHANNELS – 0°**
**EMI4907**

FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dB $\mu$ A/m)	AVERAGE LEVEL (dB $\mu$ A/m)	AVERAGE LIMIT (dB $\mu$ A/m)	MARGING
N/A	N/A	N/A	N/A	N/A	N/A

Supplementary information: No spurious emissions were detected.

**RADIATED EMISSION LIMITS – TABULATED RESULTS**
**TX MODE - ALL CHANNELS – 45°**
**EMI4908**

FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dB $\mu$ A/m)	AVERAGE LEVEL (dB $\mu$ A/m)	AVERAGE LIMIT (dB $\mu$ A/m)	MARGING
N/A	N/A	N/A	N/A	N/A	N/A

Supplementary information: No spurious emissions were detected.

**RADIATED EMISSION LIMITS – TABULATED RESULTS**
**TX MODE - ALL CHANNELS – 90°**
**EMI4909**

FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dB $\mu$ A/m)	AVERAGE LEVEL (dB $\mu$ A/m)	AVERAGE LIMIT (dB $\mu$ A/m)	MARGING
N/A	N/A	N/A	N/A	N/A	N/A

Supplementary information: No spurious emissions were detected.

**RADIATED EMISSION LIMITS – TABULATED RESULTS**
**TX MODE - LOW CHANNEL - FOR FREQ <1GHZ**
**EMI4865**

FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dB $\mu$ V/m)	QPEAK LEVEL (dB $\mu$ V/m)	QPEAK LIMIT (dB $\mu$ V/m)	MARGING (dB)
444.44	Vertical	36.15	N/P	46	-9.85
444.44	Horizontal	34.68	N/P	46	-11.32

Supplementary information: when margin between peak measurements and average/quasi-peak limit(s) is &gt; 6dB, no average/quasi-peak measurements were performed

Spurious which have more than 20 dB of margin compared to the applicable limit are not necessarily reported.

RADIATED EMISSION LIMITS – TABULATED RESULTS					
TX MODE - MID CHANNEL - FOR FREQ <1GHZ					EMI4864
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	MARGING (dB)
444.44	Vertical	36.02	N/P	46	-9.98
444.50	Horizontal	33.87	N/P	46	-12.13

Supplementary information: when margin between peak measurements and average/quasi-peak limit(s) is > 6dB, no average/quasi-peak measurements were performed  
Spurious which have more than 20 dB of margin compared to the applicable limit are not necessarily reported.

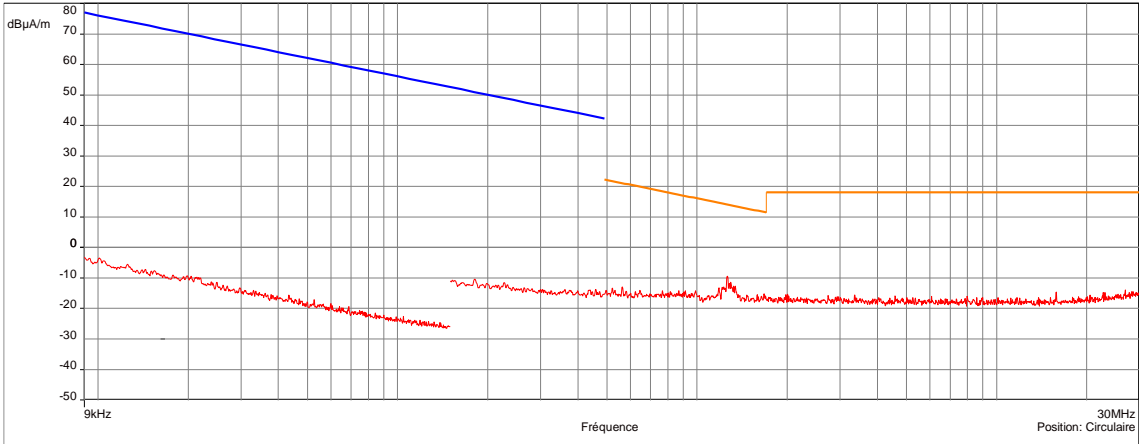
RADIATED EMISSION LIMITS – TABULATED RESULTS					
TX MODE - HIGH CHANNEL - FOR FREQ <1GHZ					EMI4866
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	MARGING (dB)
444.44	Vertical	36.02	N/P	46	-9.98
516.61	Vertical	33.77	N/P	46	-12.23
444.4963	Horizontal	35.32	N/P	46	-10.68

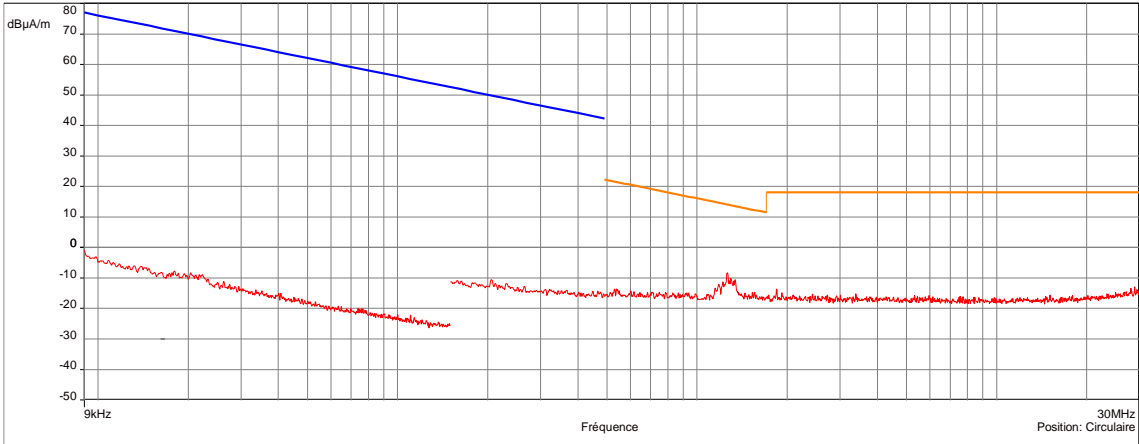
Supplementary information: when margin between peak measurements and average/quasi-peak limit(s) is > 6dB, no average/quasi-peak measurements were performed  
Spurious which have more than 20 dB of margin compared to the applicable limit are not necessarily reported.

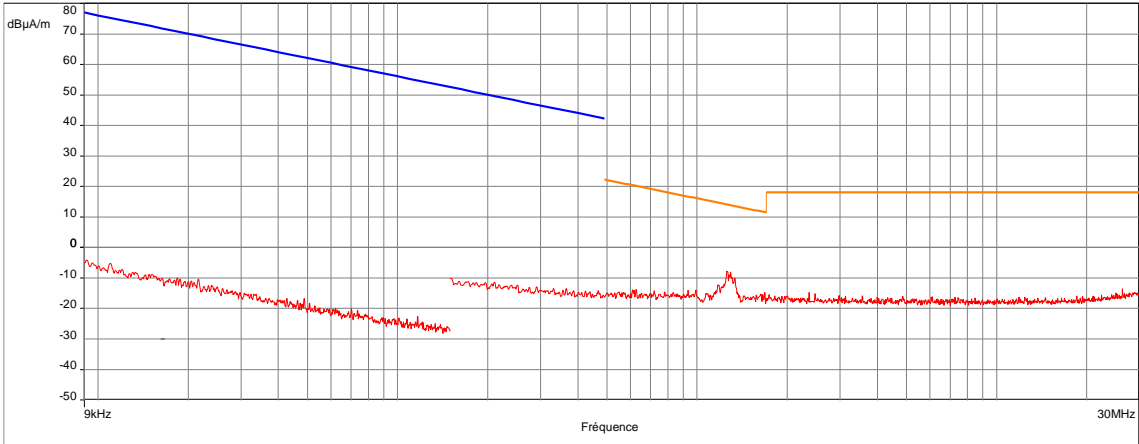
RADIATED EMISSION LIMITS – TABULATED RESULTS						
TX MODE - ALL CHANNELS - FOR FREQ >1GHZ						EMI4831
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	MARGING
1805.23	Vertical	61.96	102.30	N/P	N/P	-40.34
1830.13	Vertical	56.88	102.30	N/P	N/P	-45.42
1854.43	Vertical	58.81	102.30	N/P	N/P	-43.49
1805.23	Horizontal	64.15	102.30	N/P	N/P	-38.15
1830.13	Horizontal	62.97	102.30	N/P	N/P	-39.33
1854.43	Horizontal	66.01	102.30	N/P	N/P	-36.29
4636.12	Vertical	46.63	74.00	N/P	54.00	-7.37
3708.79	Horizontal	45.48	74.00	N/P	54.00	-8.52
4576.42	Horizontal	47.68	74.00	N/P	54.00	-6.32
4635.82	Horizontal	51.12	74.00	50.41	54.00	-3.59

Supplementary information: when margin between peak measurements and average/quasi-peak limit(s) is > 6dB, no average/quasi-peak measurements were performed  
Spurious which have more than 20 dB of margin compared to the applicable limit are not necessarily reported.

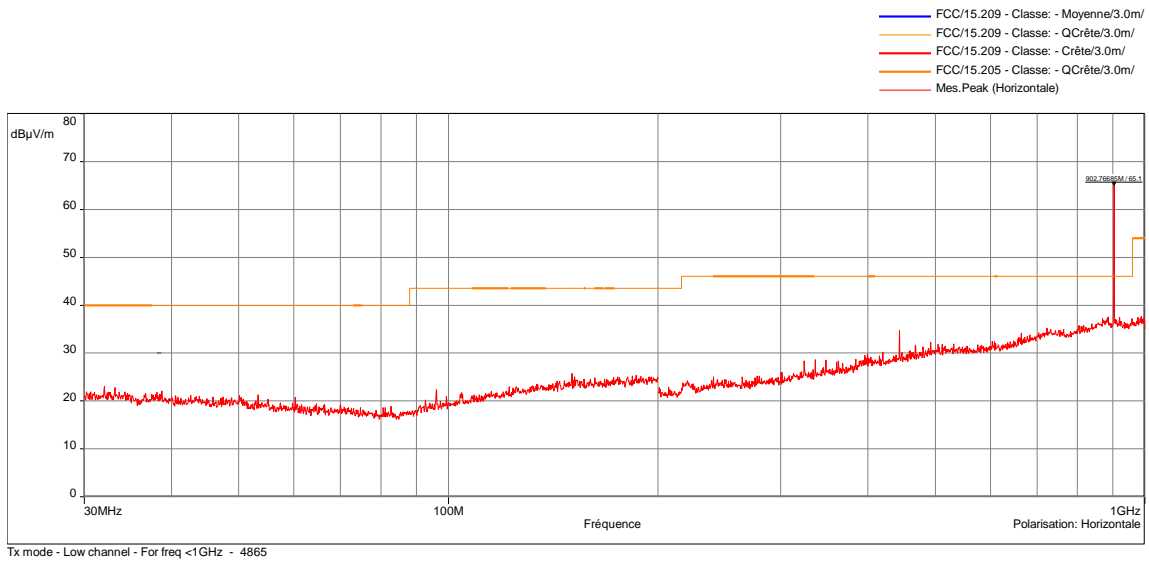
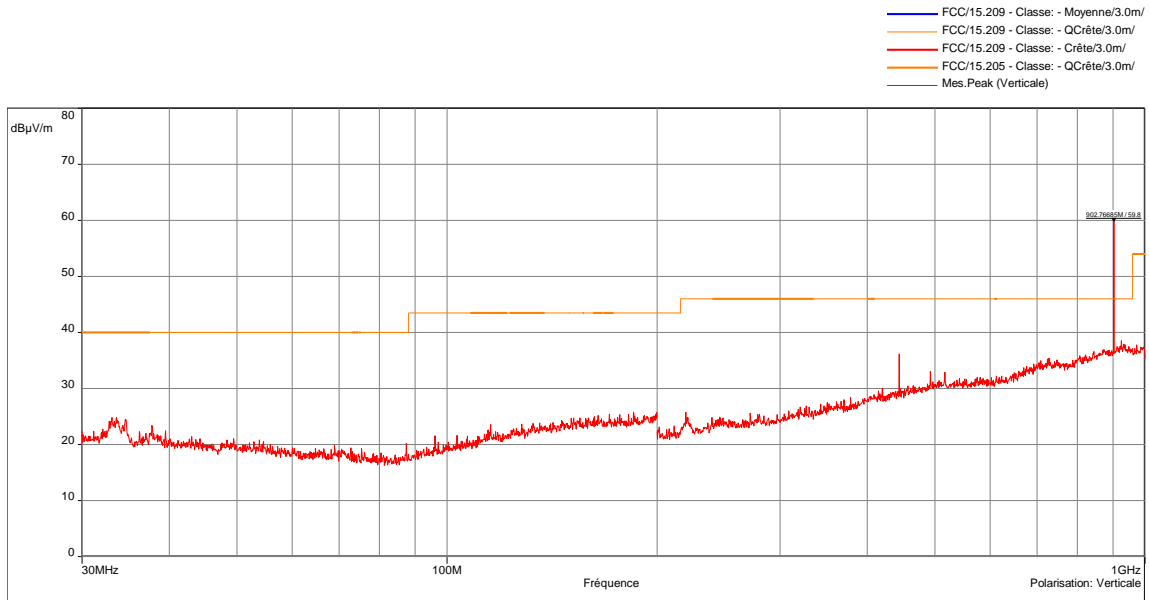


RADIATED EMISSION LIMITS - GRAPH					
TX MODE - ALL CHANNELS - 0°			EMI4907		
<b>EUT mode:</b>	Continuous modulated Tx			<b>T (°C):</b>	21.4
<b>Test Date:</b>	18/10/2021			<b>H (%):</b>	59.3
<b>Test Operator:</b>	ATO			<b>P (hPa):</b>	1018
<div style="text-align: right; font-size: small;"> <span style="color: blue;">—</span> FCC/FCC Part 15 §209 - Classe:Tx - Moyenne/3.0m/  <span style="color: orange;">—</span> FCC/FCC Part 15 §209 - Classe:Tx - QCrête/3.0m/  <span style="color: red;">—</span> Mes. Peak                 </div>  <p style="text-align: right; font-size: x-small;">30MHz Position: Circulaire</p>					
POSITION	FREQUENCIES	RBW	VBW	DETECTOR	
Circular	9kHz-150kHz	300Hz	1kHz	Peak	
Circular	150kHz-1MHz	10kHz	30kHz	Peak	
Circular	1MHz-30MHz	10kHz	30kHz	Peak	
<b>Configuration:</b>	N/A				
<b>Comments:</b>	Limit indicated on these plots are calculated with 40 dB/decade extrapolation factor and 51.5dB conversion factor. No spurious emissions were detected.				
EUT modification(s): N/A					

RADIATED EMISSION LIMITS - GRAPH				
TX MODE - ALL CHANNELS - 45°			EMI4908	
<b>EUT mode:</b>	Continuous modulated Tx		<b>T (°C):</b>	21.4
<b>Test Date:</b>	18/10/2021		<b>H (%):</b>	59.3
<b>Test Operator:</b>	ATO		<b>P (hPa):</b>	1018
<div style="text-align: right; font-size: small;"> <span style="color: blue;">—</span> FCC/FCC Part 15 §209 - Classe:Tx - Moyenne/3.0m/  <span style="color: orange;">—</span> FCC/FCC Part 15 §209 - Classe:Tx - QCrête/3.0m/  <span style="color: red;">—</span> Mes.Peak         </div>  <p>The graph plots radiated emission limits in dBµA/m against frequency in kHz. The y-axis ranges from -50 to 80 dBµA/m, and the x-axis ranges from 9 kHz to 30 MHz. A blue line represents the FCC Part 15 average limit (30m), which decreases from approximately 78 dBµA/m at 9 kHz to 40 dBµA/m at 150 kHz. An orange line represents the FCC Part 15 crest limit (30m), which is constant at 20 dBµA/m from 150 kHz to 30 MHz. A red line shows the measured peak emissions, which remain consistently below the limits, starting around -10 dBµA/m at 9 kHz and reaching approximately -25 dBµA/m at 30 MHz. The measurement position is circular.</p>				
POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Circular	9kHz-150kHz	300Hz	1kHz	Peak
Circular	150kHz-1MHz	10kHz	30kHz	Peak
Circular	1MHz-30MHz	10kHz	30kHz	Peak
<b>Configuration:</b>	N/A			
<b>Comments:</b>	Limit indicated on these plots are calculated with 40 dB/decade extrapolation factor and 51.5dB conversion factor. No spurious emissions were detected.			
EUT modification(s): N/A				

RADIATED EMISSION LIMITS - GRAPH					
TX MODE - ALL CHANNELS - 90°				EMI4909	
<b>EUT mode:</b>	Continuous modulated Tx			<b>T (°C):</b>	21.4
<b>Test Date:</b>	18/10/2021			<b>H (%):</b>	59.3
<b>Test Operator:</b>	ATO			<b>P (hPa):</b>	1018
— FCC/FCC Part 15 §209 - Classe:Tx - Moyenne/3.0m/ — FCC/FCC Part 15 §209 - Classe:Tx - QCrête/3.0m/ — Mes.Peak					
					
POSITION	FREQUENCIES	RBW	VBW	DETECTOR	
Circular	9kHz-150kHz	300Hz	1kHz	Peak	
Circular	150kHz-1MHz	10kHz	30kHz	Peak	
Circular	1MHz-30MHz	10kHz	30kHz	Peak	
<b>Configuration:</b>	N/A				
<b>Comments:</b>	Limit indicated on these plots are calculated with 40 dB/decade extrapolation factor and 51.5dB conversion factor. No spurious emissions were detected.				
EUT modification(s): N/A					

RADIATED EMISSION LIMITS - GRAPH			
TX MODE - LOW CHANNEL - FOR FREQ <1GHZ			EMI4865
<b>EUT mode:</b>	Continuous modulated Tx		<b>T (°C):</b> 19.6
<b>Test Date:</b>	18/10/2021		<b>H (%):</b> 43.8
<b>Test Operator:</b>	ATO		<b>P (hPa):</b> 1014

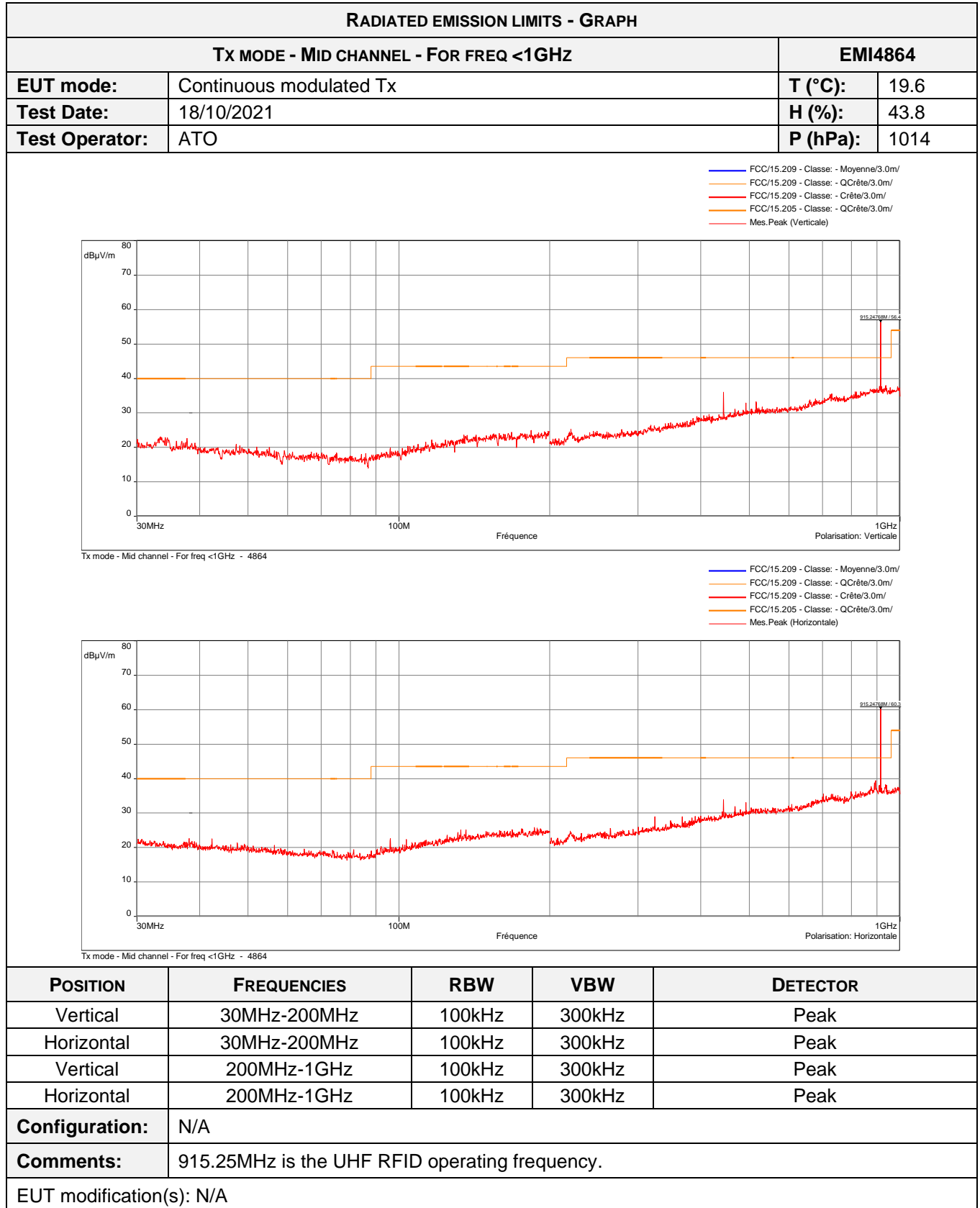


POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	30MHz-200MHz	100kHz	300kHz	Peak
Horizontal	30MHz-200MHz	100kHz	300kHz	Peak
Vertical	200MHz-1GHz	100kHz	300kHz	Peak
Horizontal	200MHz-1GHz	100kHz	300kHz	Peak

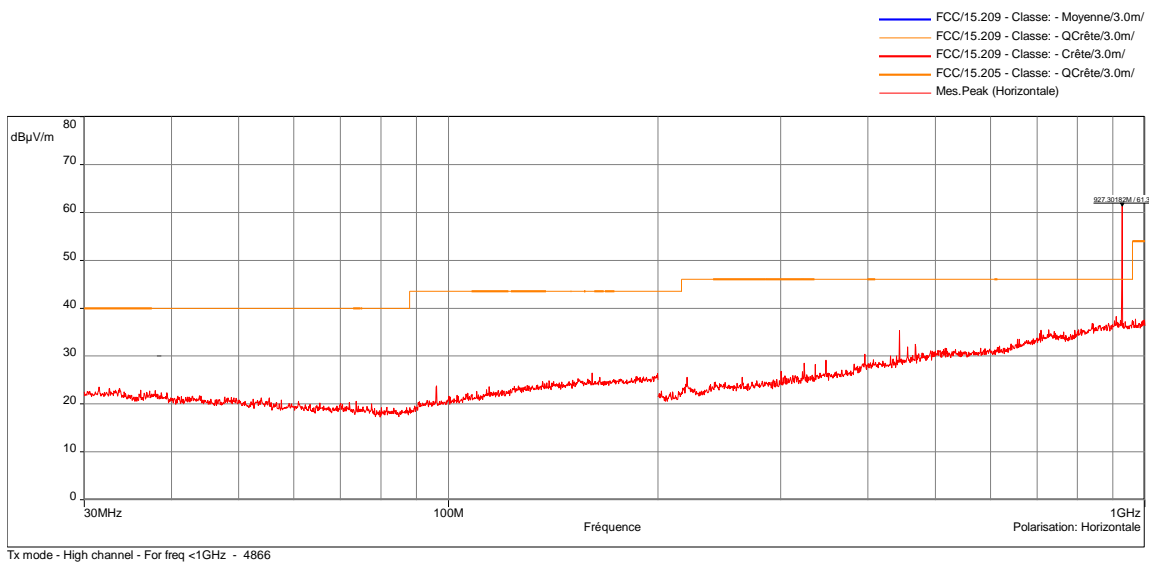
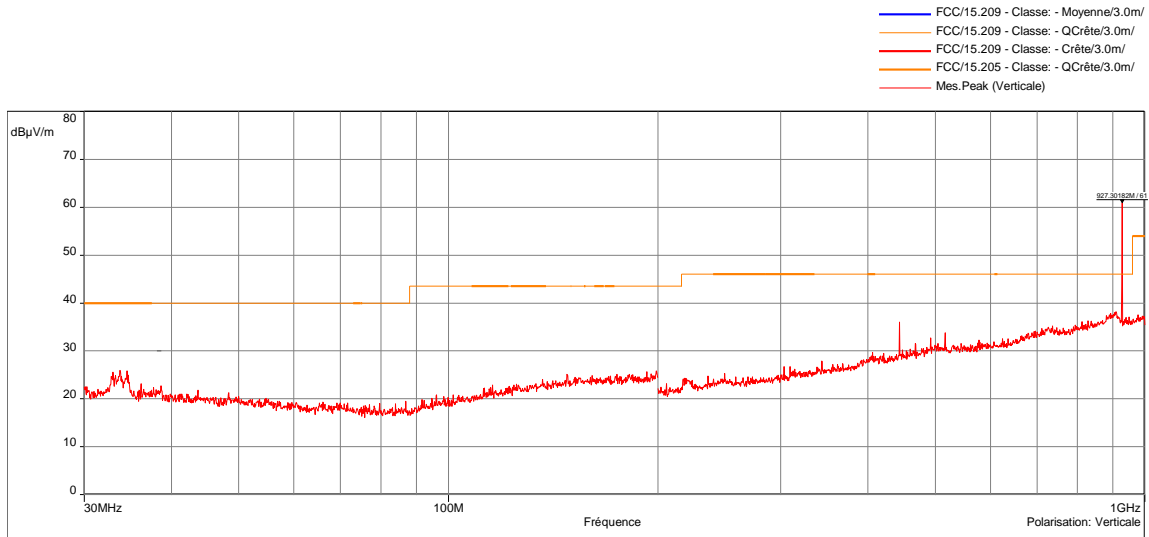
**Configuration:** N/A

**Comments:** 902.75MHz is the UHF RFID operating frequency.

EUT modification(s): N/A



RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH			
TX MODE - HIGH CHANNEL - FOR FREQ <1GHZ			EMI4866
EUT mode:	Continuous modulated Tx		T (°C): 19.6
Test Date:	18/10/2021		H (%): 43.8
Test Operator:	ATO		P (hPa): 1014

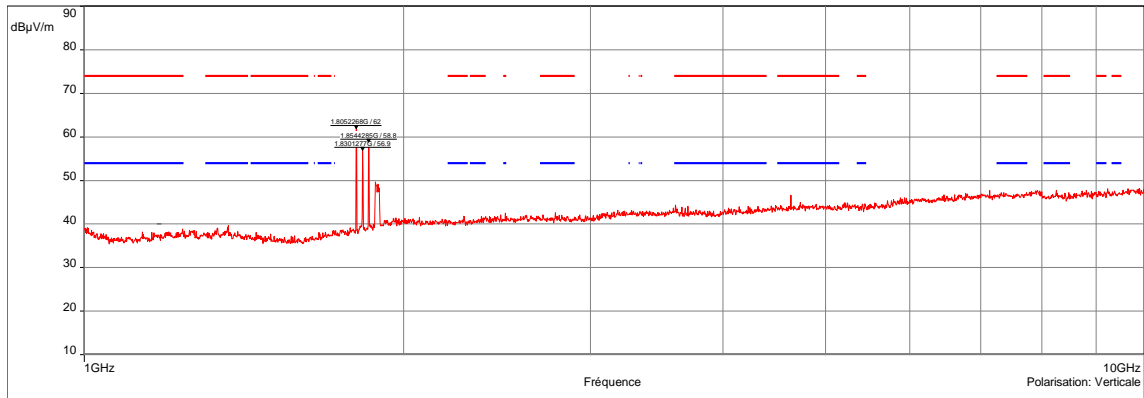


POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	30MHz-200MHz	100kHz	300kHz	Peak
Horizontal	30MHz-200MHz	100kHz	300kHz	Peak
Vertical	200MHz-1GHz	100kHz	300kHz	Peak
Horizontal	200MHz-1GHz	100kHz	300kHz	Peak
<b>Configuration:</b>	N/A			
<b>Comments:</b>	927.25MHz is the UHF RFID operating frequency.			
EUT modification(s): N/A				

RADIATED EMISSION LIMITS - GRAPH			
TX MODE - ALL CHANNELS - FOR FREQ >1GHZ			EMI4831
<b>EUT mode:</b>	Continuous modulated Tx		<b>T (°C):</b> 23.8
<b>Test Date:</b>	15/10/2021		<b>H (%):</b> 35.2
<b>Test Operator:</b>	ATO		<b>P (hPa):</b> 1011

Description Sous-bande 1  
 Fréquences: 1 GHz - 10 GHz (Mode analyseur) 30000 Points  
 Réglages: RBW: 1MHz, VBW: 3MHz, Auto, Atténuation : 10 dB, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation: Verticale  
 Distance: 3 m

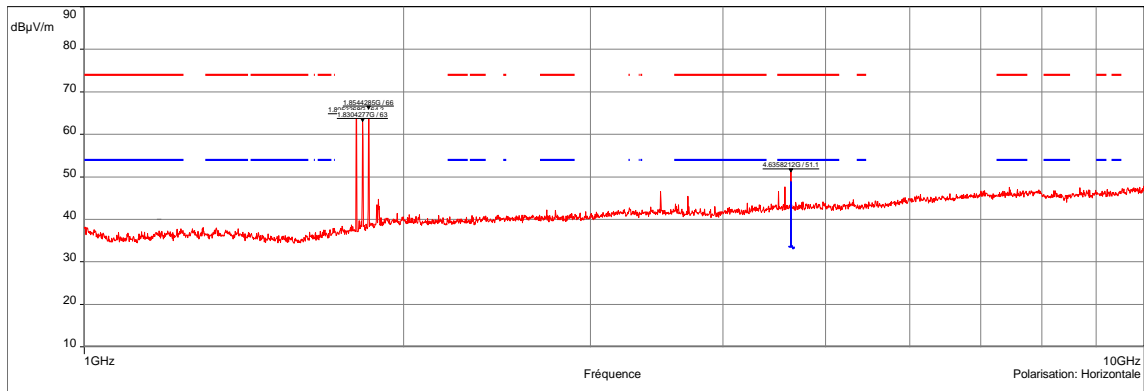
- FCC/15.205 - Classe: - Moyenne/3.0m/
- FCC/15.205 - Classe: - QCrête/3.0m/
- FCC/15.205 - Classe: - Crête/3.0m/
- Mes.Peak (Verticale)



Tx mode - All channels - For freq >1GHz - 4831

Description Sous-bande 2  
 Fréquences: 1 GHz - 10 GHz (Mode analyseur) 30000 Points  
 Réglages: RBW: 1MHz, VBW: 3MHz, Auto, Atténuation : 10 dB, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation: Horizontale  
 Distance: 3 m

- FCC/15.205 - Classe: - Moyenne/3.0m/
- FCC/15.205 - Classe: - QCrête/3.0m/
- FCC/15.205 - Classe: - Crête/3.0m/
- Mes.Peak (Horizontale)
- Mes.Avg (Horizontale)



Tx mode - All channels - For freq >1GHz - 4831

POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	1GHz-10GHz	1MHz	3MHz	Peak
Horizontal	1GHz-10GHz	1MHz	3MHz	Peak; Avg;
<b>Configuration:</b>	N/A			
<b>Comments:</b>	N/A			
EUT modification(s): N/A				

## 7.5. Band-edge compliance

<b>Reference standard:</b>	FCC part 15.247; 15.209, 15.205 RSS-247, RSS-Gen
<b>Test method:</b>	ANSI C63.10 : 2013
<b>Test description: d)</b>	
<p>In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Only the highest levels are recorded.</p>	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Band edge / All Channels	892MHz-938MHz	20 dBc and §15.209	EMI4868	<b>PASS</b>

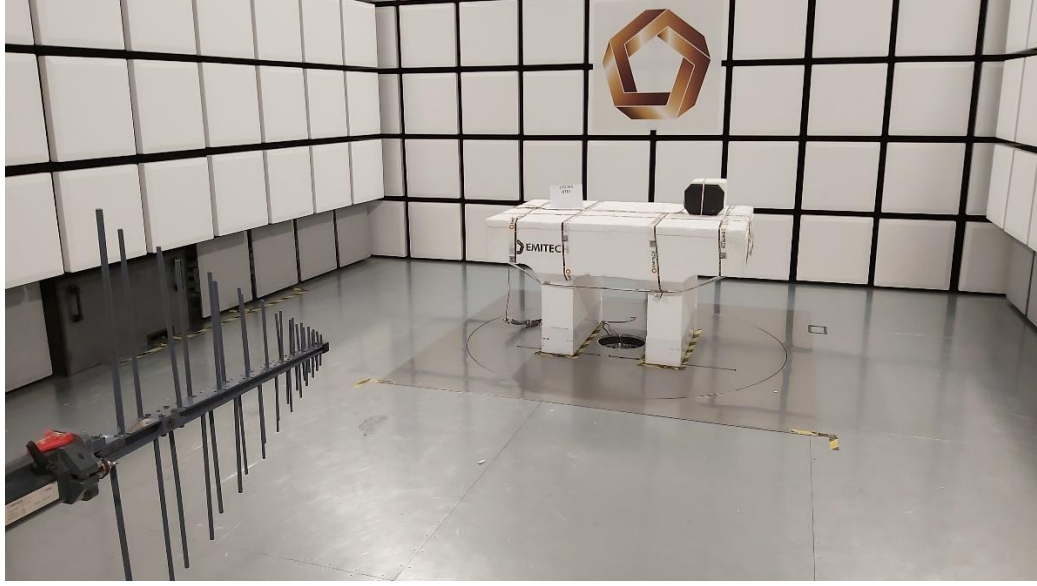
TEST EQUIPMENT USED – 30MHZ TO 10GHZ					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
AC power source	KIKUSUI	PCR2000L	0800		
Antenna	Rohde & Schwarz	HL223	3126	21/08/2021	21/10/2024
Cable	MegaPhase	F135N1N28	16666	24/10/2019	24/12/2021
Cable	SUCOFLEX	N-6,5m	14380	23/08/2021	23/10/2023
Cable	MegaPhase	N-8m	15813	14/01/2021	14/03/2023
Cable	MegaPhase	TM18-N1N1-118	12842	02/12/2020	02/02/2023
Multimeter	FLUKE	8808A	12446	29/09/2020	29/11/2021
Receiver	Rohde & Schwarz	ESW26	17791	14/04/2021	14/06/2022
Shielded enclosure	COMTEST	SAC 3m	14494	02/10/2019	02/12/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H2	12269	07/05/2020	07/07/2022
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity



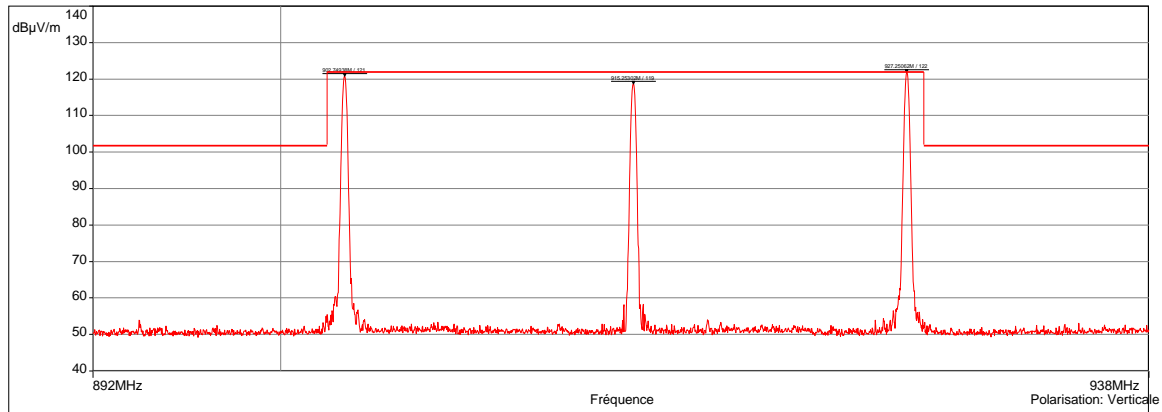
TEST SETUP PHOTO(S)



RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH			
BAND EDGE - ALL CHANNELS			EMI4868
<b>EUT mode:</b>	Continuous modulated Tx		<b>T (°C):</b> 21.4
<b>Test Date:</b>	18/10/2021		<b>H (%):</b> 48.1
<b>Test Operator:</b>	ATO		<b>P (hPa):</b> 1014

Description Sous-bande 1  
 Fréquences: 892 MHz - 938 MHz (Mode analyseur) 15000 Points  
 Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : 10 dB, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation: Verticale  
 Distance: 3 m

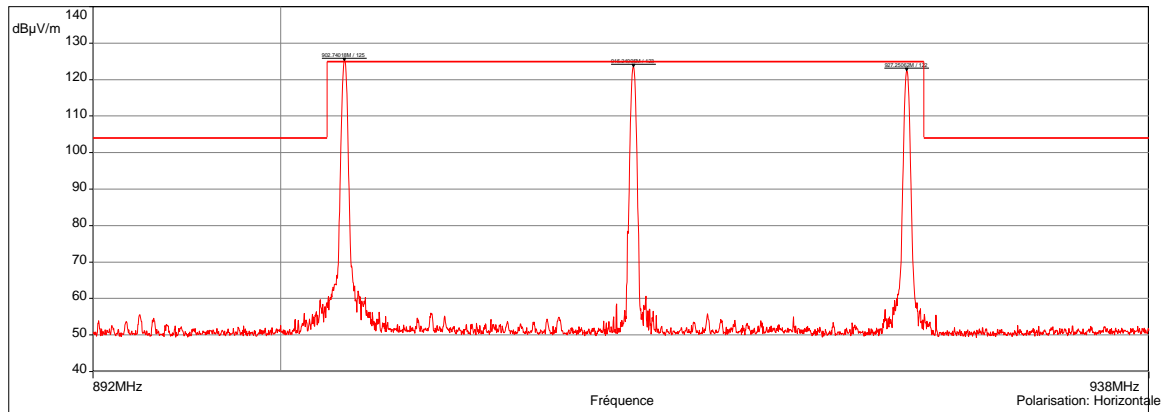
FCC/Copie de 15.247: 2021 d) Band Edeg 902-928MHz - Classe:Tx - Crête/3.0  
 Mes.Peak (Verticale)



Band Edge - All channels - 4868

Description Sous-bande 2  
 Fréquences: 892 MHz - 938 MHz (Mode analyseur) 15000 Points  
 Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : 10 dB, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation: Horizontale  
 Distance: 3 m

FCC/Copie de 15.247: 2021 d) Band Edeg 902-928MHz - Classe:Tx - Crête/3.0  
 Mes.Peak (Horizontale)



Band Edge - All channels - 4868

POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	892MHz-938MHz	100kHz	300kHz	Peak
Horizontal	892MHz-938MHz	100kHz	300kHz	Peak
<b>Configuration:</b>	N/A			
<b>Comments:</b>	N/A			
EUT modification(s): N/A				

## 7.6. Equivalent isotropic radiated power

### a) NORMAL TESTS CONDITIONS

<b>Reference standard:</b>	FCC part 15.247 RSS-247
<b>Test method:</b>	ANSI C63.10: 2013
<p><b>Test description:</b> EUT is set on an insulating support at 150cm above the ground reference plane. Measurement are done on a normalized test site by the substitution method.</p> <p>The test antenna is oriented in the two polarizations (vertical and horizontal), and the product is rotated at 360° in the horizontal plane (See photo(s) for initial position of the EUT(0°)). If applicable the test antenna was raised and lowered through the specified range of height until a maximum signal level is detected.</p> <p>For portable equipments a research of maximum level is done on the 3 axes. Only the highest levels are recorded.</p>	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
EIRP - 902.75MHz	902.5MHz-903MHz	1W (30dBm)	EMI4833	<b>PASS</b>
EIRP - 915.25MHz	915MHz-915.5MHz	1W (30dBm)	EMI4834	<b>PASS</b>
EIRP - 927.25MHz	927MHz-927.5MHz	1W (30dBm)	EMI4835	<b>PASS</b>

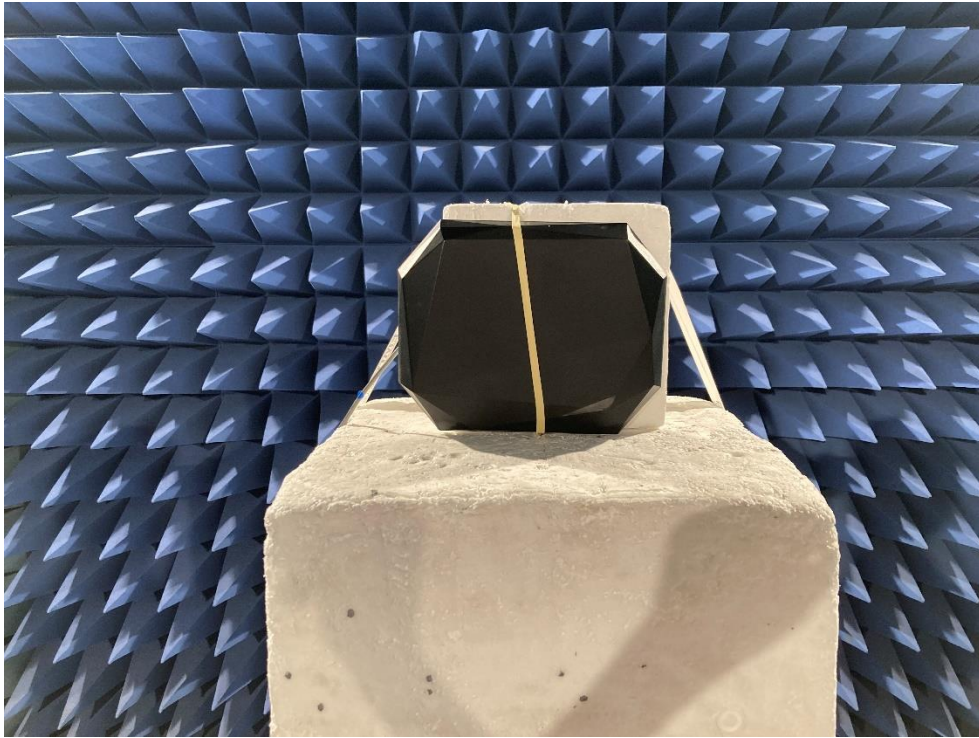
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	20 to 75 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
<b>Test method deviation:</b> N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	Rohde & Schwarz	HL223	1137	21/08/2021	21/10/2024
Attenuator	EMITECH	SUB.V1-H	14780	21/09/2022	21/11/2023
Attenuator	EMITECH	SUB.V1-V	14781	21/09/2022	21/11/2023
Cable	MegaPhase	F135N1N28	16668	24/10/2019	24/12/2021
Cable	SUCOFLEX	N-3m	14378	23/08/2021	23/10/2023
Cable	SUCOFLEX	N-5,5m	14381	23/08/2021	23/10/2023
Multimeter	FLUKE	8808A	12446	29/09/2020	29/11/2021
Power supply	TTI	TSX-1820P	4365		
Receiver	Rohde & Schwarz	FSW43	14830	29/07/2020	29/09/2022
Shielded enclosure	RAY PROOF	C.V1	1123	16/06/2018	16/02/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H1	7561	26/01/2019	26/03/2022
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

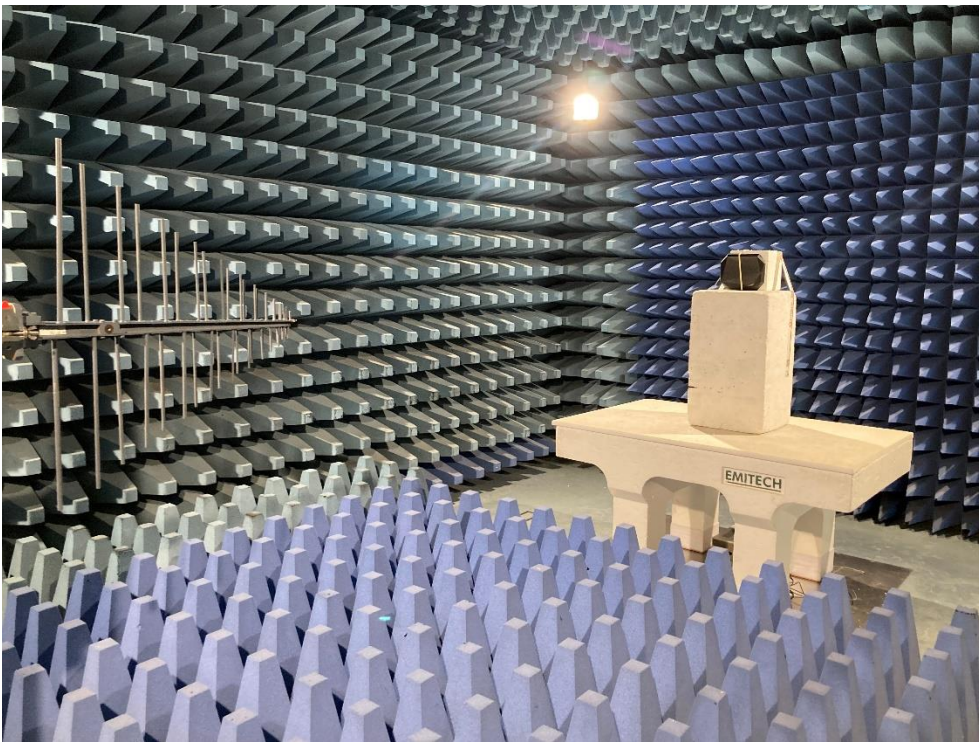
BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

TEST SETUP PHOTO(S) – EUT POSITION

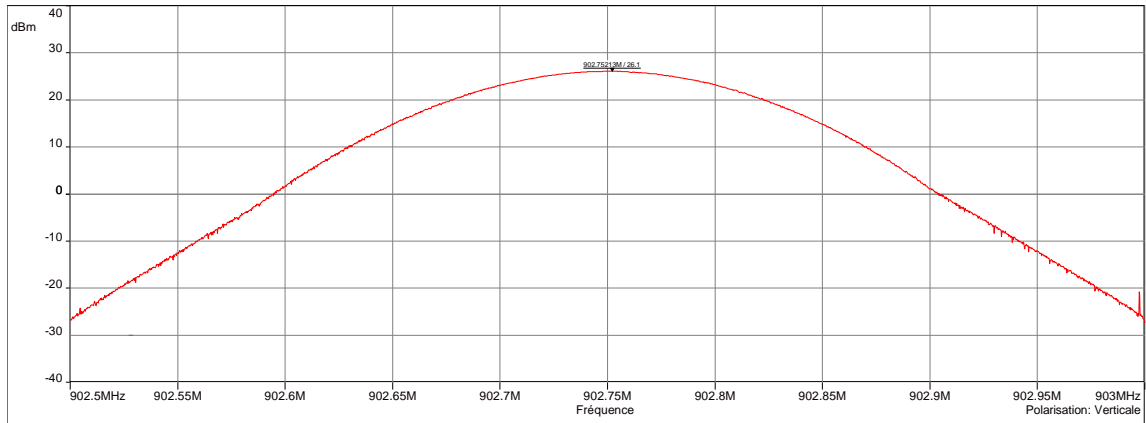


TEST SETUP PHOTO(S) – RADIATED MEASUREMENT

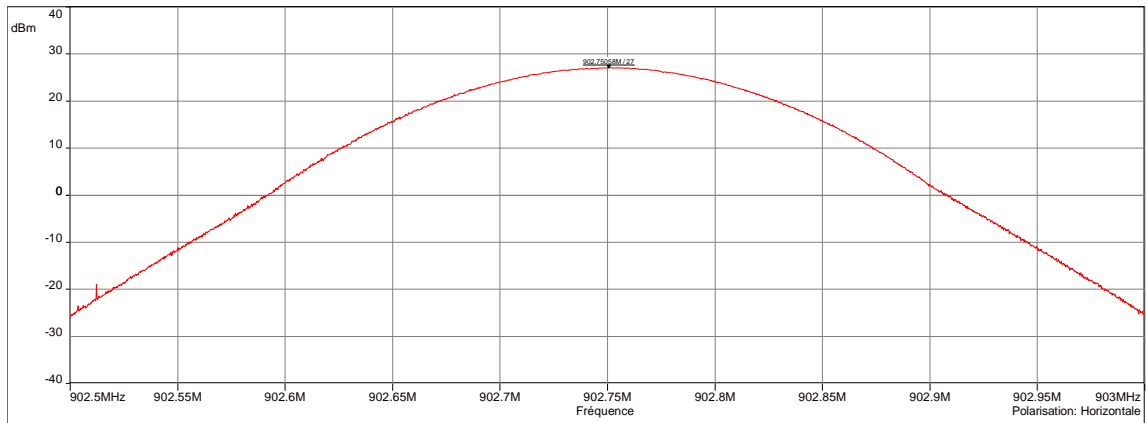


EFFECTIVE ISOTROPIC RADIATED POWER - GRAPH			
EIRP – LOW CHANNEL		EMI4833	
<b>EUT mode:</b>	Continuous modulated Tx	<b>T (°C):</b>	23.3
<b>Test Date:</b>	15/10/2021	<b>H (%):</b>	28.6
<b>Test Operator:</b>	ATO	<b>P (hPa):</b>	1015

Description Sous-bande 1  
 Fréquences:902.5 MHz - 903 MHz (Mode analyseur) 10000 Points  
 Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : Auto, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation:Verticale  
 Distance: 3 m



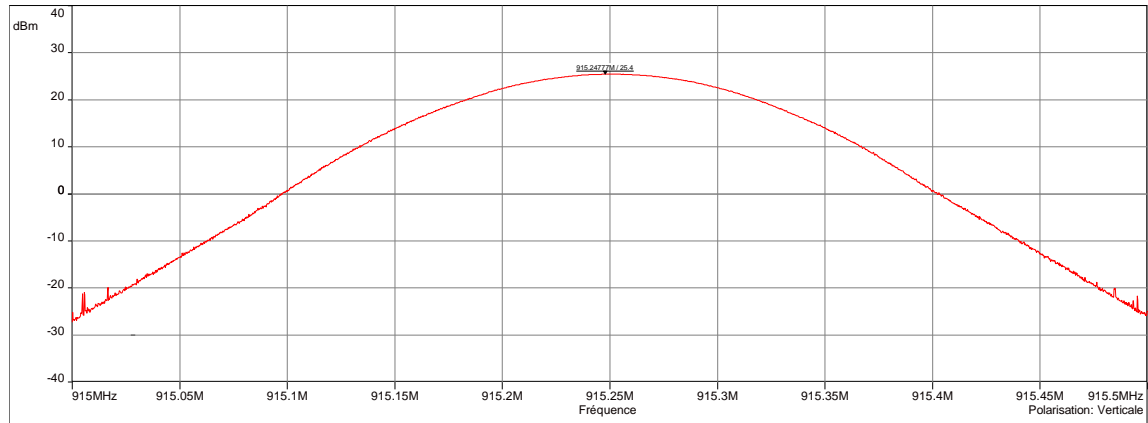
Description Sous-bande 2  
 Fréquences:902.5 MHz - 903 MHz (Mode analyseur) 10000 Points  
 Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : Auto, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation:Horizontale  
 Distance: 3 m



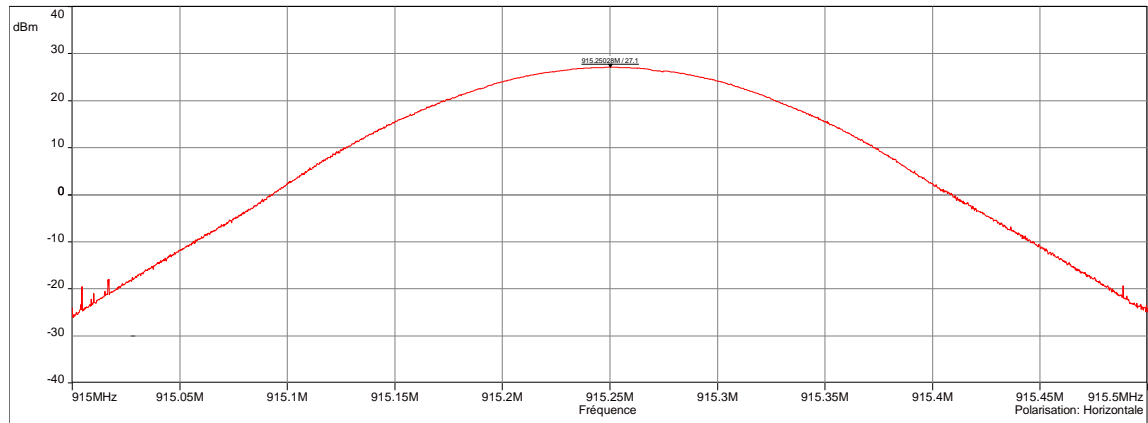
POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	902.5MHz-903MHz	100kHz	300kHz	Peak
Horizontal	902.5MHz-903MHz	100kHz	300kHz	Peak
<b>Configuration:</b>	N/A			
<b>Comments:</b>	N/A			
EUT modification(s): N/A				
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	
902.75	Horizontal	27.0	30	
902.75	Vertical	26.1	30	

EFFECTIVE ISOTROPIC RADIATED POWER - GRAPH			
EIRP – MID CHANNEL			EMI4834
<b>EUT mode:</b>	Continuous modulated Tx		<b>T (°C):</b> 23.3
<b>Test Date:</b>	15/10/2021		<b>H (%):</b> 28.6
<b>Test Operator:</b>	ATO		<b>P (hPa):</b> 1015

Description Sous-bande 1  
 Fréquences:915 MHz - 915.5 MHz (Mode analyseur) 10000 Points  
 Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : Auto, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation:Verticale  
 Distance: 3 m



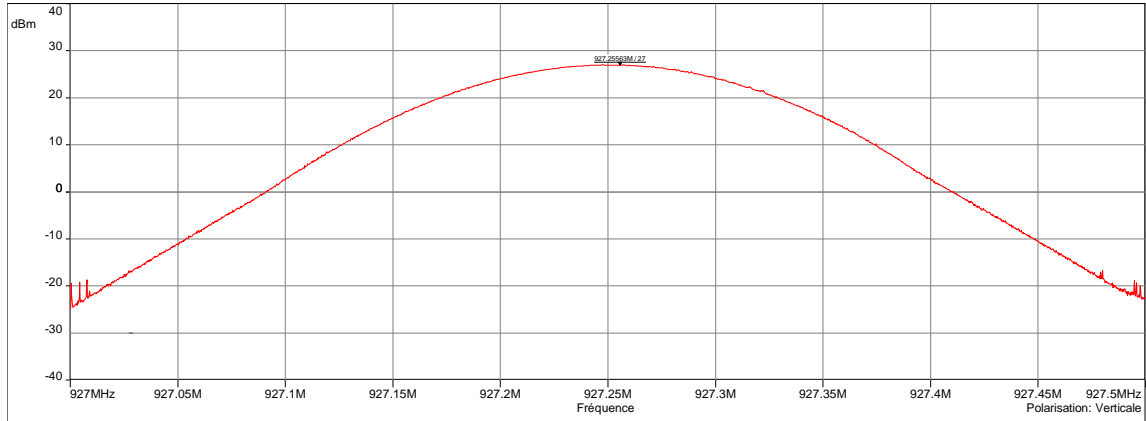
Description Sous-bande 2  
 Fréquences:915 MHz - 915.5 MHz (Mode analyseur) 10000 Points  
 Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : Auto, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation:Horizontale  
 Distance: 3 m



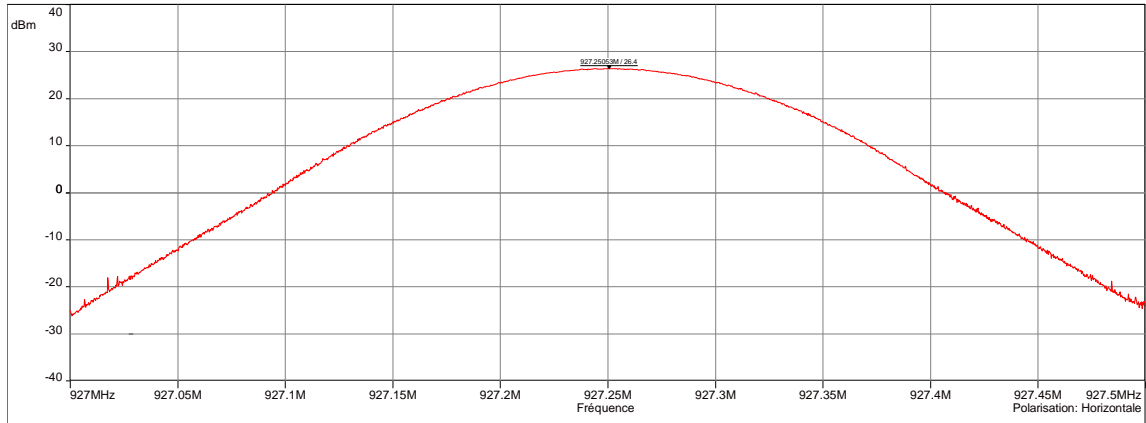
POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	915MHz-915.5MHz	100kHz	300kHz	Peak
Horizontal	915MHz-915.5MHz	100kHz	300kHz	Peak
<b>Configuration:</b>	N/A			
<b>Comments:</b>	N/A			
EUT modification(s): N/A				
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	
915.25	Horizontal	27.1	30	
915.25	Vertical	25.4	30	

EFFECTIVE ISOTROPIC RADIATED POWER - GRAPH			
EIRP – HIGH CHANNEL			EMI4835
<b>EUT mode:</b>	Continuous modulated Tx		<b>T (°C):</b> 23.3
<b>Test Date:</b>	15/10/2021		<b>H (%):</b> 28.6
<b>Test Operator:</b>	ATO		<b>P (hPa):</b> 1015

Description Sous-bande 1  
 Fréquences: 927 MHz - 927.5 MHz (Mode analyseur) 10000 Points  
 Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : Auto, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation: Verticale  
 Distance: 3 m



Description Sous-bande 2  
 Fréquences: 927 MHz - 927.5 MHz (Mode analyseur) 10000 Points  
 Réglages: RBW: 100kHz, VBW: 300kHz, Auto, Atténuation : Auto, Nombre de Balayages : 1, Preamp : Off, LN Preamp : Off, Preselecteur: Off  
 Polarisation: Horizontale  
 Distance: 3 m



POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	927MHz-927.5MHz	100kHz	300kHz	Peak
Horizontal	927MHz-927.5MHz	100kHz	300kHz	Peak
<b>Configuration:</b>	N/A			
<b>Comments:</b>	N/A			
EUT modification(s): N/A				
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	
927.25	Vertical	27	30	
927.25	Horizontal	26.4	30	

## b) EXTREMES TESTS CONDITIONS

<b>Reference standard:</b>	FCC part 15.247 RSS-247
<b>Test method:</b>	ANSI C63.10: 2013
<b>General test setup:</b> EUT is set inside the climatic enclosure. EIRP measurements are repeated in extreme test conditions with the power levels correlated with the maximum effective isotropic radiated power measured in normal conditions.	

TEST CASE	EUT MODE	SEVERITY	RESULT TAB.	VERDICT
Low channel / 25°C / 12Vdc	Continuous Tx	20 dBm	EMI4471	<b>PASS</b>
Low channel / 25°C / 10Vdc	Continuous Tx	20 dBm	EMI5044	<b>PASS</b>
Low channel / 25°C / 30Vdc	Continuous Tx	20 dBm	EMI5045	<b>PASS</b>
Mid channel / 25°C / 12Vdc	Continuous Tx	20 dBm	EMI5046	<b>PASS</b>
Mid channel / 25°C / 10Vdc	Continuous Tx	20 dBm	EMI5047	<b>PASS</b>
Mid channel / 25°C / 30Vdc	Continuous Tx	20 dBm	EMI5048	<b>PASS</b>
High channel / 25°C / 12Vdc	Continuous Tx	20 dBm	EMI5049	<b>PASS</b>
High channel / 25°C / 10Vdc	Continuous Tx	20 dBm	EMI5050	<b>PASS</b>
High channel / 25°C / 30Vdc	Continuous Tx	20 dBm	EMI5051	<b>PASS</b>
Low channel / -30°C / 12Vdc	Continuous Tx	20 dBm	EMI5052	<b>PASS</b>
Mid channel / -30°C / 12Vdc	Continuous Tx	20 dBm	EMI5053	<b>PASS</b>
High channel / -30°C / 12Vdc	Continuous Tx	20 dBm	EMI5054	<b>PASS</b>
Low channel / 60°C / 12vdc	Continuous Tx	20 dBm	EMI5055	<b>PASS</b>
Mid channel / 60°C / 12vdc	Continuous Tx	20 dBm	EMI5056	<b>PASS</b>
High channel / 60°C / 12Vdc	Continuous Tx	20 dBm	EMI5057	<b>PASS</b>

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	24.2°C
Relative Humidity	20 to 75 %	26.8%
Atmospheric pressure	N/A	1008hPa
<b>TEST METHOD DEVIATION:</b> N/A		
Supplementary information: N/A.		

CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	EMITECH	3.5 cm	4653		
Attenuator	Radiall	R412710124	17329	22/06/2020	22/08/2023
Cable	C&C	N-3m	14335	18/03/2021	18/05/2023
Climatic enclosure	Secasi	SM600C	1670		
Multimeter	FLUKE	8808A	10382	01/03/2022	01/05/2023
Power supply	TTI	TSX-1820P	4365		
Spectrum analyzer	Rohde & Schwarz	FPL1007	17908	26/08/2021	26/10/2022
Thermohygrometer	Testo	608-H1	7561	16/05/2022	16/07/2024
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023
Thermometer contactless	GHM Greisinger	GMH 3710	12968	06/10/2020	06/12/2022

Blank cells = Permanent validity



TEST SETUP PHOTO(S) - Low CHANNEL / 25°C



EFFECTIVE ISOTROPIC RADIATED POWER - TABULATED RESULTS

TEST CASE	FREQUENCY	LEVEL	LIMIT	RESULT TAB.
Low channel / 25°C / 12Vdc	902.75MHz	27.00 dBm	20 dBm	EMI4471
Low channel / 25°C / 10Vdc	902.75MHz	26.71 dBm	20 dBm	EMI5044
Low channel / 25°C / 30Vdc	902.75MHz	26.58 dBm	20 dBm	EMI5045
Mid channel / 25°C / 12Vdc	915.25MHz	27.11 dBm	20 dBm	EMI5046
Mid channel / 25°C / 10Vdc	915.25MHz	26.92 dBm	20 dBm	EMI5047
Mid channel / 25°C / 30Vdc	915.25MHz	26.79 dBm	20 dBm	EMI5048
High channel / 25°C / 12Vdc	927.25MHz	27.00 dBm	20 dBm	EMI5049
High channel / 25°C / 10Vdc	927.25MHz	26.93 dBm	20 dBm	EMI5050
High channel / 25°C / 30Vdc	927.25MHz	26.94 dBm	20 dBm	EMI5051
Low channel / -30°C / 12Vdc	902.75MHz	27.18 dBm	20 dBm	EMI5052
Mid channel / -30°C / 12Vdc	915.25MHz	28.17 dBm	20 dBm	EMI5053
High channel / -30°C / 12Vdc	927.25MHz	28.35 dBm	20 dBm	EMI5054
Low channel / 60°C / 12vdc	902.75MHz	25.05 dBm	20 dBm	EMI5055
Mid channel / 60°C / 12vdc	915.25MHz	23.53 dBm	20 dBm	EMI5056
High channel / 60°C / 12Vdc	927.25MHz	25.40 dBm	20 dBm	EMI5057

EUT MODIFICATIONS	OPERATOR	TEST DATE
N/A	MPA	30/06/2022

### 7.7. Measurement of frequency stability.

<b>Reference standard:</b>	FCC part 15.215 RSS-Gen
<b>Test method:</b>	ANSI C63.10: 2013
<p><b>General test setup:</b> Frequency stability is the difference between the measured main carrier frequency under normal and extreme conditions and the nominal centre frequency as stated by the manufacturer.</p> <p>EUT is set inside the climatic enclosure. It is connected to the measuring receiver via 50Ω attenuator(s).</p>	

TEST CASE	EUT MODE	SEVERITY	RESULT TAB.	VERDICT
Low channel / 25°C/ 12Vdc	Tx mode	Within 902MHz to 928MHz	EMI4790	<b>PASS</b>
Low channel / 25°C/ 10Vdc	Tx mode		EMI4791	<b>PASS</b>
Low channel / 25°C/ 30Vdc	Tx mode		EMI4792	<b>PASS</b>
Mid channel / 25°C/ 12Vdc	Tx mode		EMI4793	<b>PASS</b>
Mid channel / 25°C / 10Vdc	Tx mode		EMI4794	<b>PASS</b>
Mid channel / 25°C / 30Vdc	Tx mode		EMI4795	<b>PASS</b>
High channel / 25°C/ 12Vdc	Tx mode		EMI4796	<b>PASS</b>
High channel / 25°C/ 10Vdc	Tx mode		EMI4797	<b>PASS</b>
High channel / 25°C/ 30Vdc	Tx mode		EMI4798	<b>PASS</b>
Low channel / -30°C / 12Vdc	Tx mode		EMI4799	<b>PASS</b>
Mid channel / -30°C / 12Vdc	Tx mode		EMI4800	<b>PASS</b>
High channel / -30°C / 12Vdc	Tx mode		EMI4801	<b>PASS</b>
Low channel / 60°C / 12Vdc	Tx mode		EMI4802	<b>PASS</b>
Mid channel / 60°C / 12Vdc	Tx mode		EMI4803	<b>PASS</b>
High channel / 60°C / 12Vdc	Tx mode		EMI4804	<b>PASS</b>

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	24.2°C
Relative Humidity	20 to 75 %	26.8%
Atmospheric pressure	N/A	1008hPa
<b>Test method deviation:</b> N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	EMITECH	3.5 cm	4653		
Attenuator	Radiall	R412710124	17329	22/06/2020	22/08/2023
Cable	C&C	N-3m	14335	18/03/2021	18/05/2023
Climatic enclosure	Secasi	SM600C	1670		
Multimeter	FLUKE	8808A	10382	01/03/2022	01/05/2023
Power supply	TTI	TSX-1820P	4365		
Spectrum analyzer	Rohde & Schwarz	FPL1007	17908	26/08/2021	26/10/2022
Thermohygrometer	Testo	608-H1	7561	16/05/2022	16/07/2024
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023
Thermometer contactless	GHM Greisinger	GMH 3710	12968	06/10/2020	06/12/2022

Blank cells = Permanent validity



FREQUENCY ERROR - TABULATED RESULTS				
TEST CASE	FREQUENCY (MHz)	FREQUENCY ERROR (kHz)	LIMIT	RESULT TAB.
Low channel / 25°C / 12Vdc	902.749310	-0.690	Within 902MHz to 928MHz	EMI4790
Low channel / 25°C / 10Vdc	902.749300	-0.700		EMI4791
Low channel / 25°C / 30Vdc	902.749321	-0.679		EMI4792
Mid channel / 25°C / 12Vdc	915.249320	-0.680		EMI4793
Mid channel / 25°C / 10Vdc	915.249305	-0.695		EMI4794
Mid channel / 25°C / 30Vdc	915.249300	-0.700		EMI4795
High channel / 25°C / 12Vdc	927.249330	-0.670		EMI4796
High channel / 25°C / 10Vdc	927.249285	-0.715		EMI4797
High channel / 25°C / 30Vdc	927.249290	-0.710		EMI4798
Low channel / -30°C / 12Vdc	902.749590	-0.410		EMI4799
Mid channel / -30°C / 12Vdc	915.249580	-0.420		EMI4800
High channel / -30°C / 12Vdc	927.249556	-0.444		EMI4801
Low channel / 60°C / 12Vdc	902.749760	-0.240		EMI4802
Mid channel / 60°C / 12Vdc	915.249740	-0.260		EMI4803
High channel / 60°C / 12Vdc	927.249740	-0.260		EMI4804

EUT MODIFICATIONS	OPERATOR	TEST DATE
N/A	MPA	30/06/2022

End of test report