



Test report issued under the responsibility of:
EMITECH MONTPELLIER laboratory
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EMC TEST REPORT

FCC part 15
ANSI C 63.4: 2014
ICES-001 Issue 5 July 2020

Company	UNICACCES GROUPE
Address	24 chemin des Vieilles Vignes 84240 LA TOUR D'AIGUES FRANCE
Test item description	Badge management
Trade Mark	ASGARD ANNA
Manufacturer	Unicaces Groupe
FCC ID	2BO23UGPCTR
Model/Type reference	Centrale IP 4 ports +PoE module / UGP-CTR
Ratings	48Vdc
Testing Laboratory	EMITECH MONTPELLIER laboratory
Address	145 rue de Massacan 34740 VENDARGUES FRANCE
Report Reference No	RC-EVE-23C710-4A
Test procedure	Certification
Diffusion	MR FAUVEL
Applicant's name	UNICACCES GROUPE
Date of issue	May 12, 2025
Total number of pages	17
Revision	1
Compiled by	Fabien MOINACHE
Approved by (+ signature)	David MONTAULON (Technical Manager)

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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.*

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REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	May 12, 2025	/	Creation

1. GENERAL INFORMATION

This document submits the results of Electromagnetic Compatibility tests performed on the equipment **Badge management Centrale IP 4 ports +PoE module UGP-CTR** (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 : Certification Tested by : Fabien MOINACHE Test supervisor : None Date of receipt of test item : N/A Date (s) of performance of tests : June Between the 5 th to the 13 th of 2024					
APPLICANT'S GENERAL INFORMATION:					
Company name : UNICACCES GROUPE Company address : 24 chemin des Vieilles Vignes 84240 LA TOUR D'AIGUES FRANCE Person(s) present during the tests : Mr MERLE Responsible : MR FAUVEL					
GENERAL REMARKS:					
<p>The information in italics 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.</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
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 Part 15

Code of Federal Regulations

Title 47 – Telecommunications

Chapter 1 – Federal Communications Commission

Part 15 – Radio frequency devices

Subpart B – Unintentional Radiators

ANSI C 63.4: 2014

American National Standard for Methods of measurement of Radio-Noise from low-voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

ICES-001 Issue 5 July 2020

Industrial, Scientific and Medical (ISM) Equipment

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

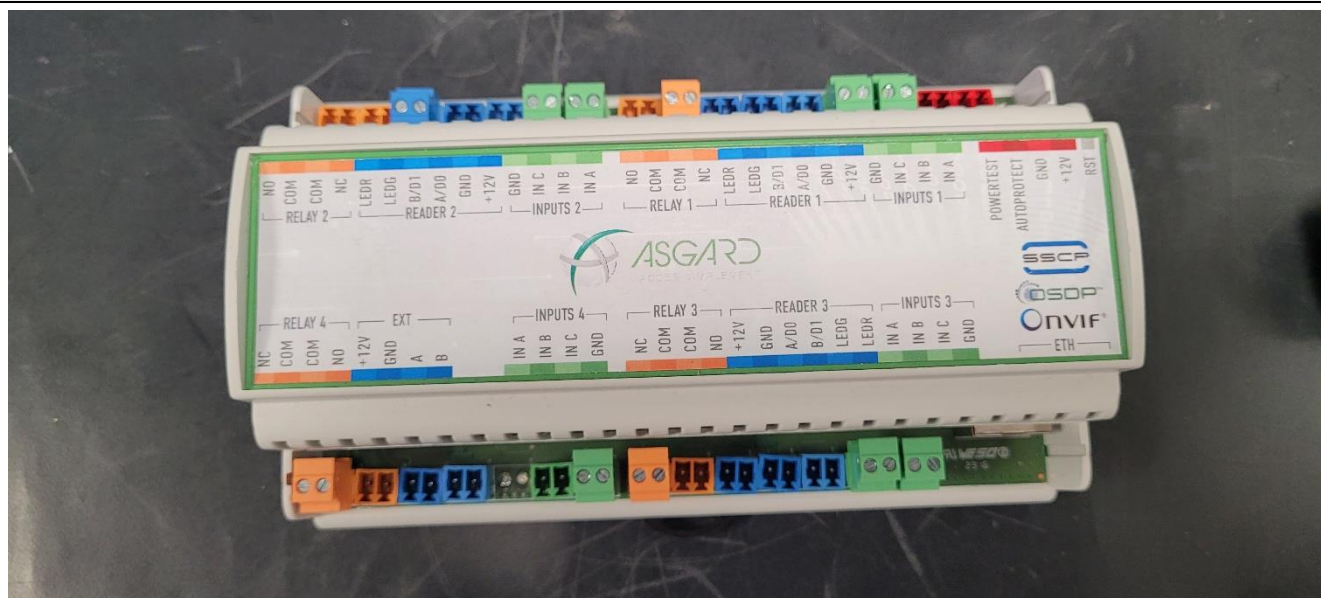
3.1. Test Conditions

Test item description.	Badge management
Model/Type reference.....	Centrale IP 4 ports +PoE module / UGP-CTR
Trade Mark.	ASGARD ANNA
Serial number (S/N).....	0523316401
Part number (P/N).	Not communicated
Software version.....	<i>Not communicated</i>
Firmware version.	<i>00.00.76 (centrale)</i>
Type of sample.....	Standard equipment
Function(s).....	Badge management and associated rights, interface with 4 badge readers (OSDP or Wiegand), door keeper (relay), general inputs and communication with supervisor (events...) via Ethernet link
Manufacturer name.	Unicacces Groupe SAS
Address.	24 Chemin des Vieilles Vignes - ZA LE REVOL 84240 La Tour-d'Aigues FRANCE

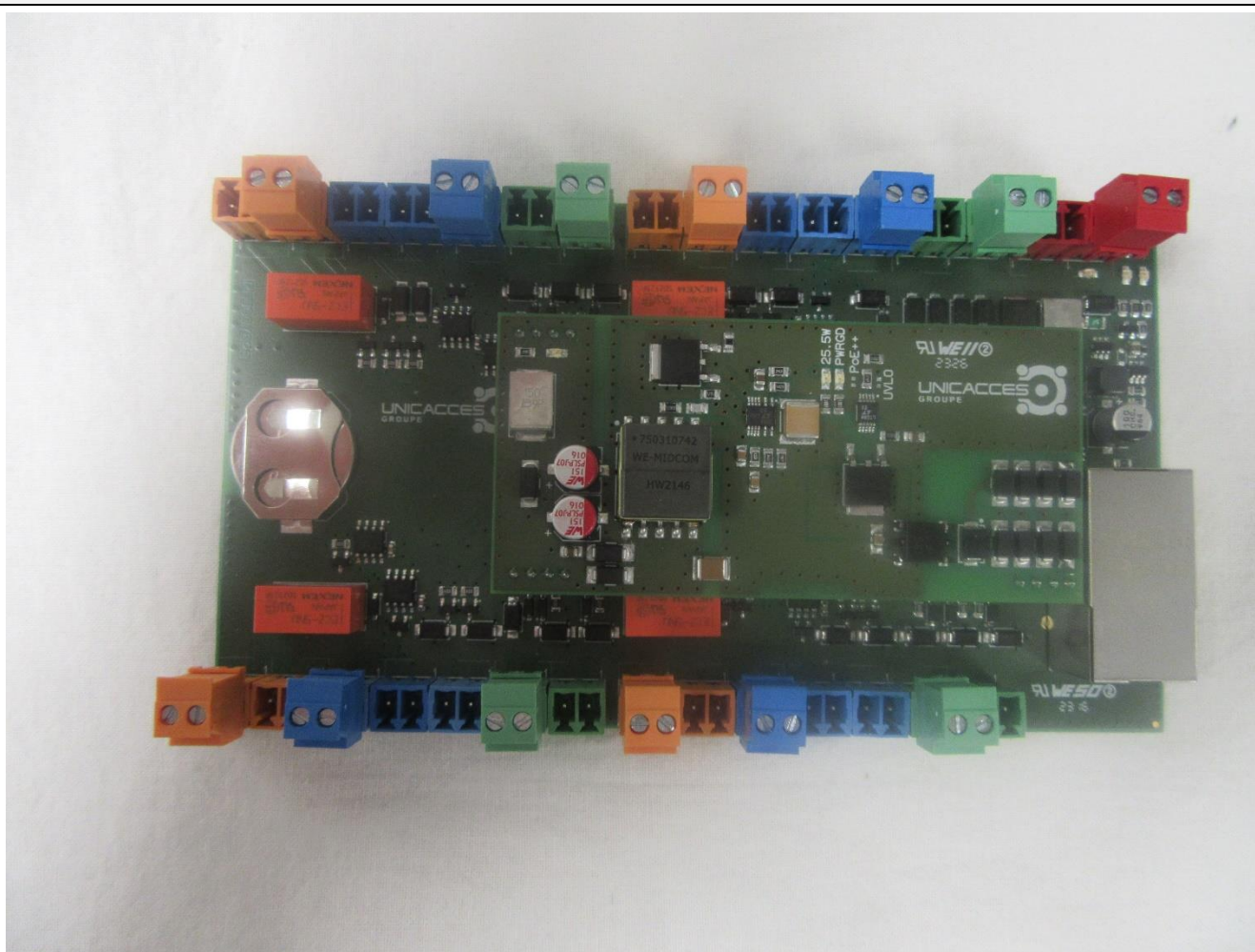
General product information:

N/A

3.2. E.U.T. General view



3.3.E.U.T. Electronic board



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

Power supply.....	: 48Vdc
Power supply range.....	: 48Vdc (POE)
Power type.....	: POE
Power (W).....	: Not communicated
Nominal current (A).	: 0.15
Dimensions (L x W x H) (m).	: 0.16 x 0.95 x 0.60
Weight (kg).	: Not communicated
Temperature range (°C).	: 0°C ; +50°C
Ground bounding strap.....	: No

Comments:

N/A

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

Centrale IP 4 ports +PoE module / UGP-CTR



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Plastic	N/A
1	Ethernet	I/O	>3m	Shielded	48Vdc
2	Reader	I/O	>3m	Not shielded	N/A
3	Reader	I/O	>3m	Not shielded	N/A
4	Reader	I/O	>3m	Not shielded	N/A
5	Reader	I/O	>3m	Not shielded	N/A

AC/DC : AC/DC Converter port

I/O: Input or Output port

N/E: Non Electrical port

AC.....: Alternative current port

TP: Telecommunication port

DC.....: Direct current port

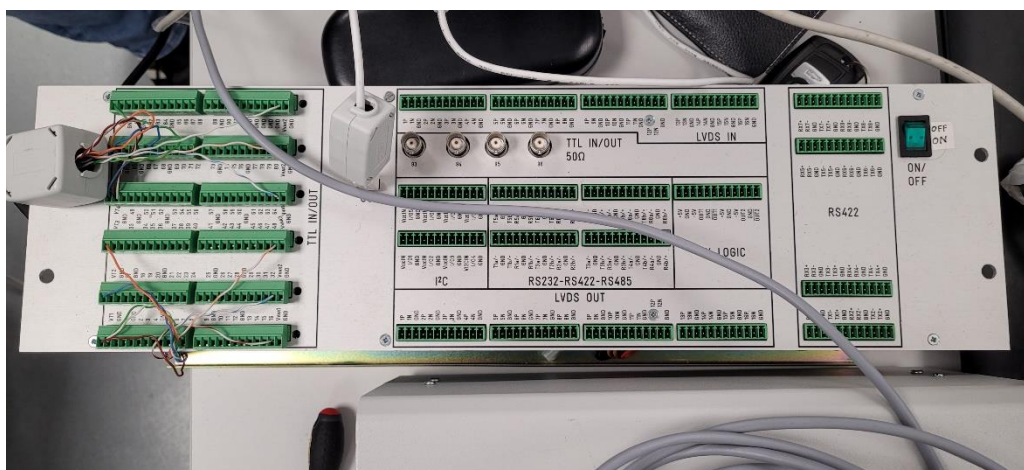
RF: Radio frequency port

3.6. Supporting Equipment Used During Test

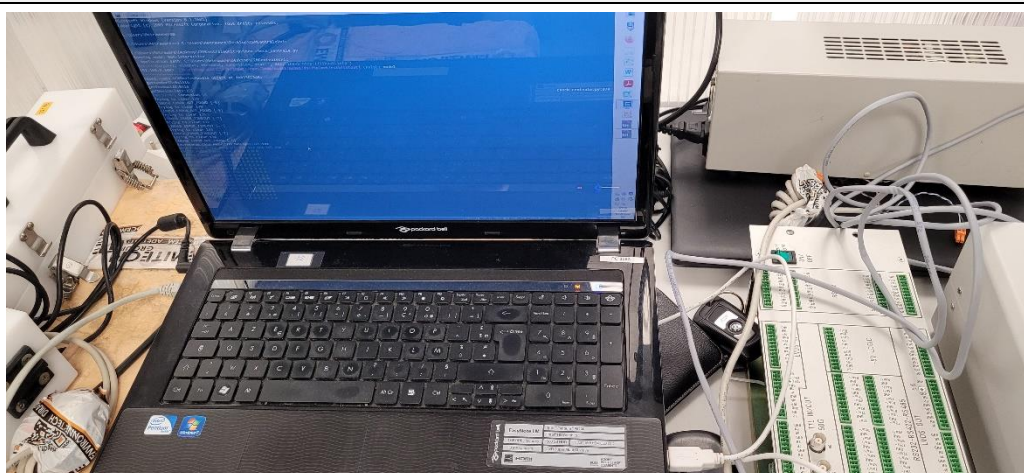
Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS
Interface RS485 /USB	UNICACCES	N/A	N/A
Laptop	Packard Bell	MS2290	N/A
Reader	UNICACCES	N/A	N/A

INTERFACE RS485 TO USB EA



LAPTOP (EA)



READER (EA)



3.7. EMC Environment and Performance Criteria

According to manufacturer's declarations:

Electromagnetic environment.....: *Light Industry*
Professional use ?: *Yes*
Typical mounting: *Wall mounted equipment*
Internal frequencies: *100MHz*
Configuration(s): *N/A*

Comments:

N/A

a) EUT OPERATION MODES:	
MODE #	DESCRIPTION
1	2 2 OSDP readers on ports 1 and 2. Valid badge on reader 2, 2 other Wiegand readers on ports 3 + 4. Cycle: valid badge reading, open door, close door

Opinion(s) and interpretation(s)

TEST(S) PERFORMED	DEVIATION(S) TO TEST METHOD(S)
CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019	N/A
ANSI C63.4: 2014	N/A


Comments: N/A

4. EUT REQUIREMENTS FOR FCC RULES

4.1. Subpart A - General

This part sets out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of part 15 devices.

The user notice, shall include the following informations:

a) LABELING REQUIREMENTS (§15.19):
<p>Equipment authorization: Supplier's Declaration of Conformity (SDoC) or Certification</p> <p>List of different type of devices and associated <i>"statement on product"</i>:</p> <p>§15.19(a)(1) - Receivers associated with the operation of a licensed radio service: <i>"This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference."</i></p> <p>§15.19(a)(2) - A stand-alone cable input selector switch: <i>"This device complies with part 15 of the FCC Rules for use with cable television service."</i></p> <p>§15.19(a)(3) - All other devices: <i>"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:</i> <i>(1) This device may not cause harmful interference, and</i> <i>(2) this device must accept any interference received, including interference that may cause undesired operation."</i></p> <p>§15.19(a)(4) - Where a device is constructed in two or more sections connected by wires and marketed together: The statement specified only to the main control unit: <i>"This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference."</i></p> <p>§15.19(a)(5) - When the device is so small: The statement of §15.19(a) shall be placed in the user manual and must also either be placed on the device packaging or on a removable label attached to the device.</p> <p>Compliance information (§2.1077): The identification, by name, address and telephone number or internet contact information, of the responsible party, as defined in § 2.909 of the standard. The responsible party for Supplier's Declaration of Conformity must be located within the United States.</p> <p>Identification (§2.1074): (a) Devices subject only to Supplier's Declaration of Conformity shall be uniquely identified by the party responsible for marketing or importing the equipment within the United States. (b) Devices subject to authorization under Supplier's Declaration of Conformity may be labeled with the following logo on a voluntary basis as a visual indication that the product complies with the applicable FCC requirements.</p> <div data-bbox="813 1675 916 1756" data-label="Image">  </div> <p>(image size: 6.7 x 2.8" ;3.5 x 1.4" ;1.6 x .7")</p>

The label shall be located in a conspicuous location on the device.

The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible (font of at least 4-point or larger) to the purchaser at the time of purchase.

b) DEVICES INCLUDING MODULAR TRANSMITTER(S) (§15.212):

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

“Contains Transmitter Module FCC ID: XYZMODEL1” or “Contains FCC ID: XYZMODEL1.”

Device under test includes single modular transmitter(s):

FCC ID: N/A

IC: N/A

c) INFORMATION TO USER (§15.21):

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that:

“The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user’s authority to operate the equipment”

4.2. Subpart B - Unintentional Radiators

In addition to Subpart A, the user notice, shall include the following informations:

d) INFORMATION TO USER (§15.105):
Equipment authorization: Supplier's Declaration of Conformity (SDoC) or Certification

§15.105(a) - For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

“NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.”

§15.105(b) - For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

“NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.”

5. RESULT SUMMARY

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
Conducted emission (measurement) Measurement of radiated disturbances - IP central unit + PoE module	15.109	N/A PASS	DC Powered (external PoE) ANSI C63.4: 2014

Sample subject to the test complies for tests done 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 into account of uncertainty associated with the results with the exception of emission tests based on CISPR standards.

TEST(S) PERFORMED	MODIFICATION(S)
CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019	N/A
ANSI C63.4: 2014	N/A

6. MEASUREMENT UNCERTAINTY

Uncertainties values presented below are required by standards:

PARAMETER	MAXIMAL EMITECH UNCERTAINTY	STANDARD UNCERTAINTY
Conducted emission		
(Artificial Mains Network) 3kHz – 9kHz	± 3.8 dB	/
(Artificial Mains Network) 9kHz – 150kHz	± 3.6 dB	± 3.8 dB
(Artificial Mains Network) 150kHz – 30MHz	± 3.4 dB	± 3.4 dB
Radiated magnetic field emission		
9kHz – 30MHz	± 2.7 dB	/
Radiated electric field emission		
(FSOATS/SAC) HP-VP 30MHz – 200MHz	± 4.8 - 5.0 dB	± 5.1 - 5.2 dB
(FSOATS/SAC) HP-VP 200MHz – 1GHz	± 5.0 - 5.0 dB	± 5.3 - 6.3 dB
(FSOATS/SAC) HP-VP with bilog. 30MHz – 1GHz	± 5.1 - 5.2 dB	± 5.3 - 6.3 dB
(FAR) HP-VP 30MHz – 200MHz	± 4.7 - 4.9 dB	± 5.0 dB
(FAR) HP-VP 200MHz – 1GHz	± 5.0 - 5.0 dB	± 5.3 dB
(FAR) HP-VP with bilog 30MHz – 1GHz	± 5.1 - 5.2 dB	± 5.3 - 6.3 dB
(FSOATS/FAR) 1GHz - 6GHz	± 5.0 / 5.2 dB	± 5.2 dB
(FSOATS/FAR) 6GHz - 18GHz	± 5.3 / 5.4 dB	± 5.5 dB
18GHz - 40GHz	± 6.1 dB	/
40GHz - 140GHz	± 5.7 dB	/

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

7. TEST CONDITIONS AND RESULTS

7.1.Measurement of radiated disturbances

Reference standard:	FCC 47 CFR PART 15.109 ICES-001 Issue 5 July 2020
Test method:	ANSI C63.4: 2014 CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019
<p>General test setup: EUT is set on an insulating support at 80cm above the ground reference plane.</p> <p>First (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located in horizontal and vertical polarities and, for SAC method, at various heights.</p> <p>Final measurements (quasi-peak) were then performed in a reference test site that complies to CISPR 16-1-4. The EUT was rotated 360° about its azimuth and, for SAC method, adjusting the receive antenna height from 1 to 4 m.</p> <p>All frequencies were investigated in both horizontal and vertical antenna polarization, where applicable.</p>	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
IP central unit + PoE module	30MHz-1GHz	15.109	EMI4680	PASS

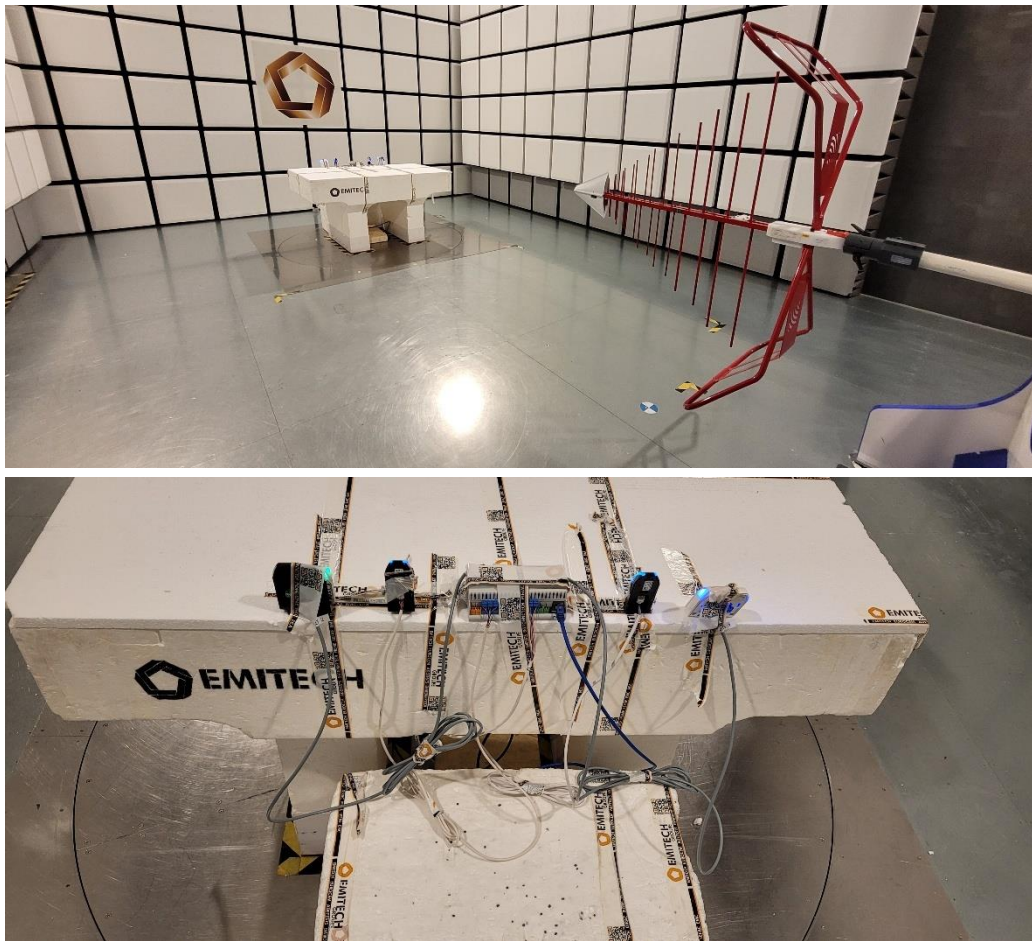
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	10 to 40 °C	See Graph(s)
Relative Humidity	10 to 90 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS lindgren	3142E	14523	27/01/2022	27/03/2025
Cable	SUCOFLEX	N-3m	14378	17/08/2023	17/10/2025
Cable	SUCOFLEX	N-6,5m	14380	17/08/2023	17/10/2025
Cable	Techniwave	N-8m	18349	17/08/2023	17/10/2025
Receiver	Rohde & Schwarz	ESW26	17791	08/07/2023	08/09/2024
Shielded enclosure	COMTEST	SAC 3m	14494	09/08/2023	09/10/2026
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H2	12269	07/06/2022	07/08/2024
Thermohygrometer	Bioblock Scientific	Météostar	0963	25/09/2023	25/11/2025

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

TEST SETUP PHOTO(S)



MEASUREMENT OF RADIATED DISTURBANCES - TABULATED RESULTS

IP CENTRAL UNIT + PoE MODULE								EMI4680
Test Freq. (MHz)	Detector (Pk/QP/Av)	Ant. position	Azimuth (°)	Ant. Height (cm)	Cor. Factor (dB)	Level dB (μV/m)	Limit dB (μV/m)	Margin (dB)
34.27	QP	Vertical	70	100	22.61	24.54	40	-15.46
36.40	QP	Vertical	70	100	21.42	17.64	40	-22.36
38.83	QP	Vertical	70	100	20.15	18.35	40	-21.65
51.73	QP	Vertical	70	100	15.70	27.24	40	-12.76
67.25	QP	Vertical	70	100	14.37	25.07	40	-14.93
72.30	QP	Vertical	70	100	14.38	26.30	40	-13.70
125.46	QP	Vertical	70	100	14.97	22.68	43.5	-20.82
127.59	QP	Vertical	70	100	15.12	25.30	43.5	-18.20
194.72	QP	Vertical	70	100	17.09	31.87	43.5	-11.63
205.39	QP	Vertical	270	100	18.31	23.88	43.5	-19.62
250.02	QP	Vertical	270	100	20.32	33.38	46	-12.62
263.79	QP	Vertical	270	100	23.40	28.82	46	-17.18
298.43	QP	Vertical	270	100	21.44	30.91	46	-15.09
300.66	QP	Vertical	270	100	21.68	31.71	46	-14.29
302.60	QP	Vertical	270	100	21.67	30.12	46	-15.88
304.93	QP	Vertical	270	100	21.58	30.93	46	-15.07
307.06	QP	Vertical	270	100	21.55	29.10	46	-16.90

MEASUREMENT OF RADIATED DISTURBANCES - TABULATED RESULTS								
IP CENTRAL UNIT + PoE MODULE								EMI4680
350.04	QP	Vertical	270	100	24.13	40.84	46	-5.16
179.49	QP	Horizontal	90	100	17.74	21.58	43.5	-21.92
250.02	QP	Horizontal	90	100	20.32	24.53	46	-21.47
255.16	QP	Horizontal	90	100	21.18	28.92	46	-17.08
257.29	QP	Horizontal	90	100	21.66	26.73	46	-19.27
291.73	QP	Horizontal	90	100	20.91	37.60	46	-8.40
294.25	QP	Horizontal	90	100	21.03	33.42	46	-12.58
296.39	QP	Horizontal	90	100	21.19	33.60	46	-12.40
315.79	QP	Horizontal	90	100	21.71	33.72	46	-12.28
317.73	QP	Horizontal	90	100	21.77	30.28	46	-15.72
343.92	QP	Horizontal	90	100	23.59	23.82	46	-22.18
348.19	QP	Horizontal	90	100	24.04	23.24	46	-22.76
350.04	QP	Horizontal	90	100	24.13	25.53	46	-20.47
356.83	QP	Horizontal	90	100	24.27	27.68	46	-18.32
Supplementary information: N/A								

