



Test report issued under the responsibility of:  
EMITECH MONTPELLIER laboratory  
MRA US-EU Designation Number: FR0006  
Canadian CAB Identifier: FR0003

## RADIO TEST REPORT

FCC 47 CFR Part 15: February 2021

FCC 47 CFR Part 15.247

RSS-247 Issue 2: February 2017

**Company** .....: **EDGE TECHNOLOGIES**  
**Address**.....: 735 AVENUE DU LIEUTENANT PARAYRE  
13290 AIX EN PROVENCE  
FRANCE

**Test item description** .....: **Valve position including wireless transmitter with data measurement capability**  
**Trade Mark** .....: EDGE TECHNOLOGIES  
**Manufacturer**.....: EDGE TECHNOLOGIES SAS  
**Model/Type reference**.....: SENSEA915A / SENSEA.VALV including SENSEAIO  
**FCC ID**.....: 2A2T5-SENSEA915A  
**IC** .....: 29177-SENSEA915A  
**Ratings**.....: 2.4Vdc to 3.7Vdc

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

**Report Reference No**.....: **RR-EVE-21C250-1A**  
**Test procedure** .....: FCC IC Certification  
**Diffusion**.....: Mr LEVEQUE  
**Applicant's name** .....: EDGE TECHNOLOGIES SAS  
**Date of issue**.....: January 26, 2023  
**Total number of pages**.....: 52  
**Revision** .....: 0  
**Compiled by**.....: Morgan PATEY  
**Approved by (+ signature)** .....: Olivier HEYER (Laboratory Manager)



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**REVISION HISTORY:**

| Revision | Date             | Modified pages | Modifications |
|----------|------------------|----------------|---------------|
| 0        | January 26, 2023 | /              | Creation      |

## 1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **Valve position SENA.VLV** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |       |                         |     |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------|-------------------------|-----|---------------------|
| <b>TESTING PROCEDURE AND TESTING LOCATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |       |                         |     |                     |
| <b>Testing Location</b> ..... : EMITECH MONTPELLIER laboratory<br><b>Address</b> ..... : 145 rue de Massacan<br>34740 VENDARGUES<br>FRANCE<br><b>Test procedure</b> ..... : FCC IC Certification<br><b>Tested by</b> ..... : Morgan PATEY<br><b>Test supervisor</b> ..... : None<br><b>Date of receipt of test item</b> ..... : N/A<br><b>Date (s) of performance of tests</b> ..... : From August 16 <sup>th</sup> to 18 <sup>th</sup> of 2021                                                                                                                                                                                                                                             |                       |       |                         |     |                     |
| <b>APPLICANT'S GENERAL INFORMATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |       |                         |     |                     |
| <b>Company name</b> ..... : EDGE TECHNOLOGIES<br><b>Company address</b> ..... : 735 AVENUE DU LIEUTENANT PARAYRE<br>13290 AIX EN PROVENCE<br>FRANCE<br><b>Person(s) present during the tests</b> ..... : No representative for company attended the tests.<br><b>Responsible</b> ..... : Mr LEVEQUE                                                                                                                                                                                                                                                                                                                                                                                         |                       |       |                         |     |                     |
| <b>GENERAL REMARKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |       |                         |     |                     |
| <p><b>The information in italics is declared by the manufacturer and is under his responsibility</b><br/> <b>The test results presented in this report relate only to the object tested.</b><br/> <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.<br/> "(see appended table)" refers to a table appended to the report.<br/> Throughout this report the decimal separator is point.</p> |                       |       |                         |     |                     |
| <b>POSSIBLE TEST CASE VERDICTS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |       |                         |     |                     |
| <b>Test case does not apply to the test object</b> .: N/A<br><b>Test case not performed</b> ..... : N/P<br><b>Test object does meet the requirement</b> ..... : P (Pass)<br><b>Test object does not meet the requirement</b> ..... : F (Fail)                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |       |                         |     |                     |
| <b>DEFINITIONS AND ABBREVIATIONS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |       |                         |     |                     |
| 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: February 2021**

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

**FCC 47 CFR Part 15.247**

Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

**RSS 247 Issue 2: February 2017**

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

**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

**ANSI C 63.10: 2013**

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

**KDB 447498 D01**

General RF Exposure Guidance V06

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. .... : Valve position  
Model/Type reference..... : SENSEA915A / SENSEA.VALV including SENSEAIO  
Trade Mark. .... : EDGE TECHNOLOGIES  
Serial number (S/N)..... : Not communicated  
Part number (P/N). .... : Not communicated  
Software version..... : *Not communicated*  
Firmware version. .... : 1.2  
Type of sample. .... : Pre-serial  
Function(s)..... : Battery powered sensors family with long range communication ability (Valve position)  
Manufacturer name. .... : EDGE TECHNOLOGIES SAS  
Address. .... : 735 AVENUE DU LIEUTENANT PARAYRE  
13290 AIX EN PROVENCE  
FRANCE

#### General product information:

N/A

#### 3.2. EUT Marking plate

EUT didn't have its marking plate during tests

#### 3.3. EUT General view



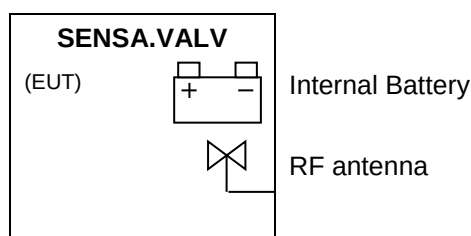
### 3.4. EUT Mechanical and Electrical Design

Power supply. .... : 3Vdc  
Power supply range..... : 2.4Vdc to 3.7Vdc  
Power type..... : Battery powered  
Power (W)..... : 0.7  
Nominal current (A). .... : 0.0003  
Dimensions (L x W x H) (m). .... : 0.06 x 0.06 x 0.12  
Weight (kg). .... : 1  
Temperature range (°C). .... : -40 to +85  
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    | Metallic & Plastic | N/A                                          |
| 1    | Internal Battery | DC   | N/A    | N/A                | Primary 3Vdc LiMno2 battery - SAFT M20 EX SV |
| 2    | RF antenna       | RF   | N/A    | N/A                | PCB Printed                                  |

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. EUT Radio Specifications

| a) GENERAL INFORMATIONS                    |                                       |
|--------------------------------------------|---------------------------------------|
| According to manufacturer's declarations : |                                       |
| EUT type.....                              | <i>Transceiver</i>                    |
| Technology .....                           | <i>BLE</i>                            |
| Environmental profile.....                 | <i>Data transmissions</i>             |
| Temperature range.....                     | <i>-40 to +85</i>                     |
| Antenna type .....                         | <i>Internal (PCB printed)</i>         |
| Antenna Gain.....                          | <i>0 dBi</i>                          |
| <b>Comments:</b> N/A                       |                                       |
| b) TRANSMITTER PARAMETERS (Tx)             |                                       |
| Frequency bands.....                       | <i>2400 MHz to 2483.5 MHz</i>         |
| RF Power.....                              | <i>2.5 mW</i>                         |
| Number of channels / Separation.....       | <i>40</i>                             |
| Modulation type .....                      | <i>GFSK</i>                           |
| Duty cycle .....                           | <i>100 %</i>                          |
| Tested frequency.....                      | <i>2402 MHz: Low channel (ch.37)</i>  |
|                                            | <i>2440 MHz: Mid channel (ch.38)</i>  |
|                                            | <i>2480 MHz: High channel (ch.39)</i> |
| c) RECEIVER PARAMETERS (Rx)                |                                       |
| Frequency bands.....                       | <i>2400 MHz to 2483.5 MHz</i>         |
| Bandwidth.....                             | <i>Not communicated</i>               |

#### 4. RESULT SUMMARY

| TEST DESIGNATION                                                         | SEVERITY | VERDICT | BASIC STANDARDS / COMMENTS           |
|--------------------------------------------------------------------------|----------|---------|--------------------------------------|
| <b>SUBPART A - GENERAL</b>                                               |          |         |                                      |
| Labeling requirements                                                    |          | N/P     | 15.19 / See certification documents  |
| Information to user                                                      |          | N/P     | 15.21 / See certification documents  |
| Home-built devices                                                       |          | N/A     | 15.23                                |
| Kits                                                                     |          | N/A     | 15.25                                |
| Special Accessories                                                      |          | N/P     | 15.27 / See certification documents  |
| Inspection by the Commission                                             |          | N/A     | 15.29                                |
| Measurement standards                                                    |          | PASS    | 15.31                                |
| Test procedure for CPU boards and computer power supplies                |          | N/A     | 15.32                                |
| Frequency range of radiated measurements                                 |          | PASS    | 15.33                                |
| Measurement detector functions and bandwidths                            |          | PASS    | 15.35                                |
| Transition provisions for compliance with the rules                      |          | PASS    | 15.37 / See certification documents  |
| <b>SUBPART B – UNINTENTIONAL RADIATORS</b>                               |          |         |                                      |
| Equipment authorization                                                  |          |         | 15.101                               |
| - Verification                                                           |          | N/A     |                                      |
| - Declaration of Conformity                                              |          | N/A     |                                      |
| CPU boards and power supplies used in personal computers                 |          | N/A     | 15.102                               |
| Exempted device                                                          |          | N/A     | 15.103                               |
| Information to the user                                                  |          | N/P     | 15.105 / See certification documents |
| Conducted limits                                                         |          | N/A     | 15.107 / Battery powered equipment   |
| Radiated emission limits                                                 | Class B  | PASS    | 15.109                               |
| Antenna power conduction limits for receivers                            |          | N/A     | 15.111                               |
| Power line carrier systems                                               |          | N/A     | 15.113                               |
| TV interface devices, including cable system terminal devices            |          | N/A     | 15.115                               |
| TV broadcast receivers                                                   |          | N/A     | 15.117                               |
| Cable ready consumer electronics equipment                               |          | N/A     | 15.118                               |
| Program blocking technology requirements for TV receivers                |          | N/A     | 15.120                               |
| Scanning receivers and frequency converters used with scanning receivers |          | N/A     | 15.121                               |
| Labeling of digital cable ready products                                 |          | N/A     | 15.123                               |
| <b>SUBPART C –INTENTIONAL RADIATORS</b>                                  |          |         |                                      |

| TEST DESIGNATION                                                                                  | SEVERITY | VERDICT | BASIC STANDARDS / COMMENTS                                      |
|---------------------------------------------------------------------------------------------------|----------|---------|-----------------------------------------------------------------|
| Equipment authorization requirement                                                               | Class B  | PASS    | 15.201 / Transmitter part is subject to Certification procedure |
| Certified operating frequency range                                                               |          | N/A     | 15.202                                                          |
| Antenna requirement                                                                               |          | PASS    | 15.203 / Dedicated integral antenna                             |
| External radio frequency power amplifiers and antenna modifications                               |          | N/A     | 15.204                                                          |
| Restricted bands of operation                                                                     |          | PASS    | 15.204                                                          |
| Conducted limits                                                                                  |          | N/A     | 15.207 / Battery powered equipment                              |
| Radiated emission limits; general requirements                                                    |          | PASS    | 15.209                                                          |
| Tunnel radio systems                                                                              |          | N/A     | 15.211                                                          |
| Modular transmitters                                                                              |          | N/A     | 15.212                                                          |
| Cable locating equipment                                                                          |          | N/A     | 15.213                                                          |
| Cordless telephones                                                                               |          | N/A     | 15.214                                                          |
| 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                                                                        |          | N/A     | No FHSS equipment                                               |
| - Digital modulation system                                                                       |          | PASS    | 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                                                       |          | N/A     | No FHSS equipment                                               |
| - For system using digital modulation in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands |          | PASS    | b) (3)                                                          |
| - Operation with directional antenna gains > 6 dBi                                                |          | N/A     | c)                                                              |
| - Out-of-band emissions                                                                           |          | PASS    | d)                                                              |
| - Power spectral density conducted                                                                |          | PASS    | e)                                                              |
| - Hybrid system                                                                                   |          | N/A     | f)                                                              |
| - Frequency hopping additional requirements                                                       |          | N/A     | No FHSS equipment                                               |
| - Frequency hopping intelligence                                                                  |          | N/A     | No FHSS equipment                                               |
| - 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.

Opinion(s) and interpretation(s): N/A

## 5. MEASUREMENT UNCERTAINTY

| PARAMETER                                           | MAXIMAL EMITECH<br>UNCERTAINTY   | MINIMAL STANDARD<br>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)                       |                                  |                                 |
| $f \leq 1 \text{ GHz}$                              | $\pm 0.8 \text{ dB}$             | $\pm 3 \text{ dB}$              |
| 1 GHz - 12.75 GHz                                   | $\pm 1.6 \text{ dB}$             |                                 |
| 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                                         | $\pm 1 \text{ }^{\circ}\text{C}$ | $\pm 1^{\circ}\text{C}$         |
| 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

Maximum EIRP = -9.69dBm (0.107 mW) at 2440MHz (see §7.2 of this document)

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

$$\text{PSD} = \text{EIRP} / (4 \cdot \pi \cdot R^2) = 1.06 / (4 \cdot \pi \cdot (20 \text{ cm})^2) = 0.00002 \text{ mW/cm}^2$$

$$\text{Limit} = 1 \text{ mW/cm}^2$$

In accordance with RSS-102, Issue 5, Section 2.5.1., as EIRP is lower than 4.25 mW at 2404 MHz, SAR exemption for ISED can be considered for a distance  $\leq 5\text{cm}$ .

## 7. TEST CONDITIONS AND RESULTS

### 7.1. Occupied Bandwidth & 6 dB Bandwidth

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FCC part 15 Radio part 15.247 and RSS 247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ANSI C63.10 : 2013                        |
| <b>Test description:</b> a) (2):<br>Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.<br>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 $\beta$ , which, in cases of symmetrical spectra, splits up into $\beta/2$ on each side of the spectrum. Unless otherwise specified, $\beta/2$ is taken as 0,5 %.<br>The maximum occupied bandwidth includes all associated side bands above the appropriate emissions level and the frequency error or drift under extreme test conditions.<br>EUT is connected to the measuring receiver via 50 $\Omega$ attenuator(s). Tests are done in max-hold mode in order to capture all channels. |                                           |

| TESTED PARAMETER              | RESULT     | SEVERITY  | RESULT TAB. | VERDICT     |
|-------------------------------|------------|-----------|-------------|-------------|
| 6 dB bandwidth / Low channel  | 696.80 kHz | > 500 kHz | EMI5990     | <b>PASS</b> |
| 6 dB bandwidth / Mid channel  | 711.00 kHz | > 500 kHz | EMI5991     | <b>PASS</b> |
| 6 dB bandwidth / High channel | 690.75 kHz | > 500 kHz | EMI5992     | <b>PASS</b> |
| OBW / Low channel             | 1.047 MHz  | > 500 kHz | EMI5993     | <b>PASS</b> |
| OBW / Mid channel             | 1.051 MHz  | > 500 kHz | EMI5994     | <b>PASS</b> |
| OBW / High channel            | 1.074 MHz  | > 500 kHz | EMI5995     | <b>PASS</b> |

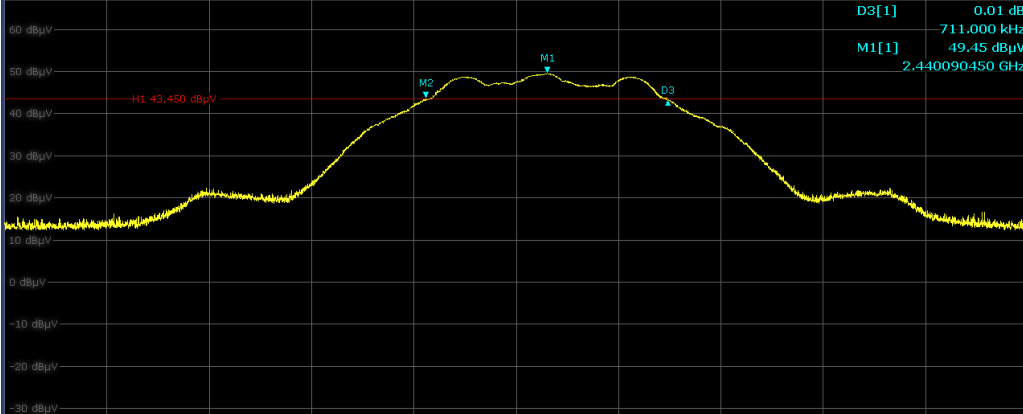
| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | See Graph(es)   |
| Relative Humidity                 | 20 to 75 %                 | 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   |
| Antenna             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Attenuator          | EMITECH             | SUB.V2-H  | 14495      | 13/01/2021 | 13/03/2022 |
| Attenuator          | EMITECH             | SUB.V2-V  | 14496      | 13/01/2021 | 13/03/2022 |
| Cable               | SUCOFLEX            | N-3m      | 14378      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16042      | 24/03/2021 | 24/05/2023 |
| Converter           |                     | 2.15      | 9988       |            |            |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               | BAT EMC   | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 09/06/2021 | 09/08/2023 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 07/06/2021 | 07/08/2023 |

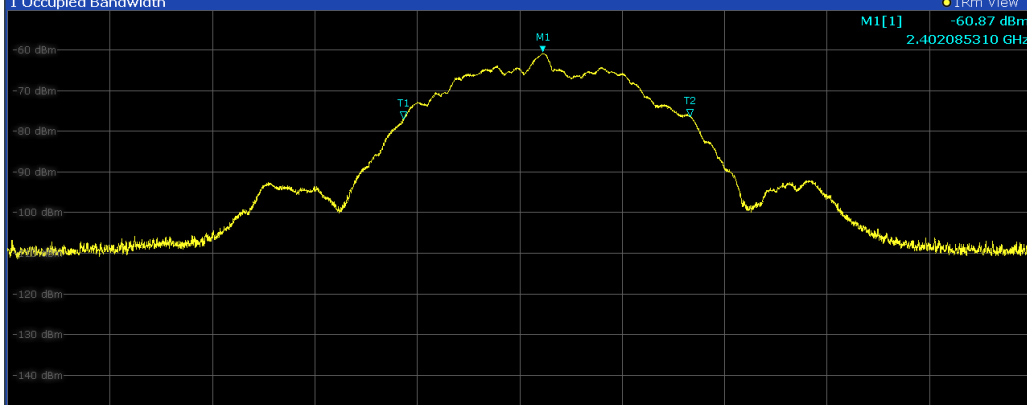
BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

| 6 dB BANDWIDTH - GRAPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| <div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 74.00 dBµV</div><div>RBW 100 kHz</div><div>Att 0 dB</div><div>SWT 15 ms</div><div>VBW 300 kHz</div><div>Mode Sweep</div></div><div>PA</div><div><div>1 Frequency Sweep</div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><d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| 6 dB BANDWIDTH - GRAPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |          |                |            |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------|----------------|------------|----------|-----------------|---------|---------|----------|-----------------|----|---|--|----------------|------------|--|--|----|---|--|----------------|------------|--|--|----|----|---|-----------|---------|--|--|
| MID CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     | EMI5991  |                |            |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| EUT mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Tx mode                             | T (°C):  | 24.1           |            |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| Test Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 17/08/2021                          | H (%):   | 38.4           |            |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| Test Operator:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MPA                                 | P (hPa): | 1007           |            |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| <div><div>MultiView Spectrum</div><div><div>Ref Level 67.00 dBµV</div><div>RBW 100 kHz</div><div>Att 0 dB</div><div>SWT 10 ms</div><div>VBW 300 kHz</div><div>Mode Sweep</div></div><div>1 Frequency Sweep</div><div><div><div>1Pk Max</div><div>D3[1] 0.01 dB</div><div>M1[1] 49.45 dBµV</div><div>2.440090450 GHz</div></div><div>CF 2.44 GHz 10000 pts 300.0 kHz/ Span 3.0 MHz</div></div><div><div>2 Marker Table</div><table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.44009045 GHz</td><td>49.45 dBµV</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.43973435 GHz</td><td>43.46 dBµV</td><td></td><td></td></tr><tr><td>D3</td><td>M2</td><td>1</td><td>711.0 kHz</td><td>0.01 dB</td><td></td><td></td></tr></tbody></table></div><div><div>Aborted</div><div>17.08.2021 10:00:52</div></div></div> |                                     |          |                | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.44009045 GHz | 49.45 dBµV |  |  | M2 | 1 |  | 2.43973435 GHz | 43.46 dBµV |  |  | D3 | M2 | 1 | 711.0 kHz | 0.01 dB |  |  |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ref                                 | Trc      | X-Value        | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| M1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                                   |          | 2.44009045 GHz | 49.45 dBµV |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| M2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                                   |          | 2.43973435 GHz | 43.46 dBµV |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| D3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | M2                                  | 1        | 711.0 kHz      | 0.01 dB    |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| Results:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | The system has an OBW of 711.00 kHz |          |                |            |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |
| EUT modification(s): N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |          |                |            |          |                 |         |         |          |                 |    |   |  |                |            |  |  |    |   |  |                |            |  |  |    |    |   |           |         |  |  |

| 6 dB BANDWIDTH - GRAPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |     |                |            |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|----------------|------------|----------|-----------------|-----|---------|---------|----------|-----------------|----|--|---|----------------|------------|--|--|----|--|---|----------------|------------|--|--|----|----|---|------------|----------|--|--|
| HIGH CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |     | EMI5992        |            |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| EUT mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tx mode                             |     | T (°C):        | 24.1       |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| Test Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 17/08/2021                          |     | H (%):         | 38.4       |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| Test Operator:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MPA                                 |     | P (hPa):       | 1007       |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| <div><div>MultiView Spectrum</div><div><div>Ref Level 77.00 dBµV</div><div>Att 0 dB</div><div>SWT 10 ms</div><div>VBW 300 kHz</div><div>Mode Sweep</div></div><div>1 Frequency Sweep</div><div><div><div>70 dBµV</div><div>60 dBµV</div><div>50 dBµV</div><div>40 dBµV</div><div>30 dBµV</div><div>20 dBµV</div><div>10 dBµV</div><div>0 dBµV</div><div>-10 dBµV</div><div>-20 dBµV</div></div><div><div><div>CF 2.48 GHz</div><div>10000 pts</div><div>375.0 kHz/</div><div>Span 3.75 MHz</div></div></div><div><div><div>D3[1]</div><div>M1[1]</div></div><div><div>0.00 dB</div><div>47.41 dBµV</div></div><div><div>690.750 kHz</div><div>2.480092440 GHz</div></div></div><div><div>2 Marker Table</div><table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td></td><td>1</td><td>2.48009244 GHz</td><td>47.41 dBµV</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.47973994 GHz</td><td>41.61 dBµV</td><td></td><td></td></tr><tr><td>D3</td><td>M2</td><td>1</td><td>690.75 kHz</td><td>-0.00 dB</td><td></td><td></td></tr></tbody></table></div><div><div>Aborted</div><div>17.08.2021 11:00:16</div></div></div></div> |                                     |     |                |            | Type     | Ref             | Trc | X-Value | Y-Value | Function | Function Result | M1 |  | 1 | 2.48009244 GHz | 47.41 dBµV |  |  | M2 |  | 1 | 2.47973994 GHz | 41.61 dBµV |  |  | D3 | M2 | 1 | 690.75 kHz | -0.00 dB |  |  |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ref                                 | Trc | X-Value        | Y-Value    | Function | Function Result |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| M1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     | 1   | 2.48009244 GHz | 47.41 dBµV |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| M2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     | 1   | 2.47973994 GHz | 41.61 dBµV |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| D3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | M2                                  | 1   | 690.75 kHz     | -0.00 dB   |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| Results:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | The system has an OBW of 690.75 kHz |     |                |            |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |
| EUT modification(s): N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |     |                |            |          |                 |     |         |         |          |                 |    |  |   |                |            |  |  |    |  |   |                |            |  |  |    |    |   |            |          |  |  |

| OCCUPIED BANDWIDTH - GRAPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |          |                |            |                    |                  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|----------------|------------|--------------------|------------------|---------|---------|----------|-----------------|----|---|--|----------------|------------|--------|-----------------|----|---|--|----------------|------------|-----------------|-----------------|----|---|--|----------------|------------|--------------------|------------------|
| LOW CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    | EMI5993  |                |            |                    |                  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| EUT mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Tx mode                            | T (°C):  | 24.1           |            |                    |                  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| Test Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 17/08/2021                         | H (%):   | 38.4           |            |                    |                  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| Test Operator:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MPA                                | P (hPa): | 1007           |            |                    |                  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| <div><div><div>MultiView  Spectrum</div><div>Ref Level -50.32 dBm RBW 50 kHz<br/>Att 0 dB SWT 10 ms VBW 200 kHz Mode Sweep<br/>PA</div><div>1 Occupied Bandwidth</div><div></div><div>CF 2.402 GHz 10000 pts 375.0 kHz/ Span 3.75 MHz</div><div>2 Marker Table</div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40208531 GHz</td><td>-60.87 dBm</td><td>Occ Bw</td><td>1.047153475 MHz</td></tr><tr><td>T1</td><td>1</td><td></td><td>2.40157537 GHz</td><td>-77.02 dBm</td><td>Occ Bw Centroid</td><td>2.402098947 GHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.40262523 GHz</td><td>-76.34 dBm</td><td>Occ Bw Freq Offset</td><td>98.946749426 kHz</td></tr></table><div>Measuring...  17.08.2021 09:51:29</div></div></div> |                                    |          |                | Type       | Ref                | Trc              | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.40208531 GHz | -60.87 dBm | Occ Bw | 1.047153475 MHz | T1 | 1 |  | 2.40157537 GHz | -77.02 dBm | Occ Bw Centroid | 2.402098947 GHz | T2 | 1 |  | 2.40262523 GHz | -76.34 dBm | Occ Bw Freq Offset | 98.946749426 kHz |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ref                                | Trc      | X-Value        | Y-Value    | Function           | Function Result  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| M1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                  |          | 2.40208531 GHz | -60.87 dBm | Occ Bw             | 1.047153475 MHz  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                  |          | 2.40157537 GHz | -77.02 dBm | Occ Bw Centroid    | 2.402098947 GHz  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                  |          | 2.40262523 GHz | -76.34 dBm | Occ Bw Freq Offset | 98.946749426 kHz |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| Results:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | The system has an OBW of 1.047 MHz |          |                |            |                    |                  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |
| EUT modification(s): N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |          |                |            |                    |                  |         |         |          |                 |    |   |  |                |            |        |                 |    |   |  |                |            |                 |                 |    |   |  |                |            |                    |                  |

| OCCUPIED BANDWIDTH - GRAPH |            |          |      |
|----------------------------|------------|----------|------|
| MID CHANNEL                |            | EMI5994  |      |
| EUT mode:                  | Tx mode    | T (°C):  | 24.1 |
| Test Date:                 | 17/08/2021 | H (%):   | 38.4 |
| Test Operator:             | MPA        | P (hPa): | 1007 |

MultiView

Spectrum

Ref Level -46.30 dBm

RBW 50 kHz

Att 0 dB

SWT 10 ms

VBW 200 kHz

Mode Sweep

PA

1 Occupied Bandwidth

</

| OCCUPIED BANDWIDTH - GRAPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| HIGH CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| EUT mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Test Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Test Operator:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MPA        | P (hPa): | 1007 |
| <div><div>MultiView Spectrum</div><div><div>Ref Level -30.00 dBm</div><div>RBW 50 kHz</div><div>Att 0 dB</div><div>SWT 10 ms</div><div>VBW 200 kHz</div><div>Mode Sweep</div></div><div>1 Occupied Bandwidth</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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## 7.2. Equivalent isotropic radiated power

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC 47 CFR PART 15.247 and RSS 247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ANSI C63.10 : 2013                 |
| <b>Test description:</b> b) (3)<br>For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.<br>Only the highest levels are recorded. The measurement is performed in radiated mode because the product antenna is a printed circuit type antenna. The results are directly compared to the conducted limits. |                                    |

| TESTED CONFIGURATION                           | PARAMETER           | SEVERITY   | RESULT TAB. | VERDICT     |
|------------------------------------------------|---------------------|------------|-------------|-------------|
| RF output power / Low channel / All positions  | 2.3995GHz-2.4045GHz | 1W (30dBm) | EMI4557     | <b>PASS</b> |
| RF output power / Mid channel / All positions  | 2.4375GHz-2.4425GHz | 1W (30dBm) | EMI4558     | <b>PASS</b> |
| RF output power / High channel / All positions | 2.4775GHz-2.4825GHz | 1W (30dBm) | EMI4556     | <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             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Attenuator          | EMITECH             | SUB.V2-H  | 14495      | 13/01/2021 | 13/03/2022 |
| Attenuator          | EMITECH             | SUB.V2-V  | 14496      | 13/01/2021 | 13/03/2022 |
| Cable               | SUCOFLEX            | N-3m      | 14378      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16042      | 24/03/2021 | 24/05/2023 |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               | BAT EMC   | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 09/06/2021 | 09/08/2023 |
| 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) - EQUIVALENT ISOTROPIC RADIATED POWER / POSITION 1



TEST SETUP PHOTO(S) - EQUIVALENT ISOTROPIC RADIATED POWER / POSITION 2

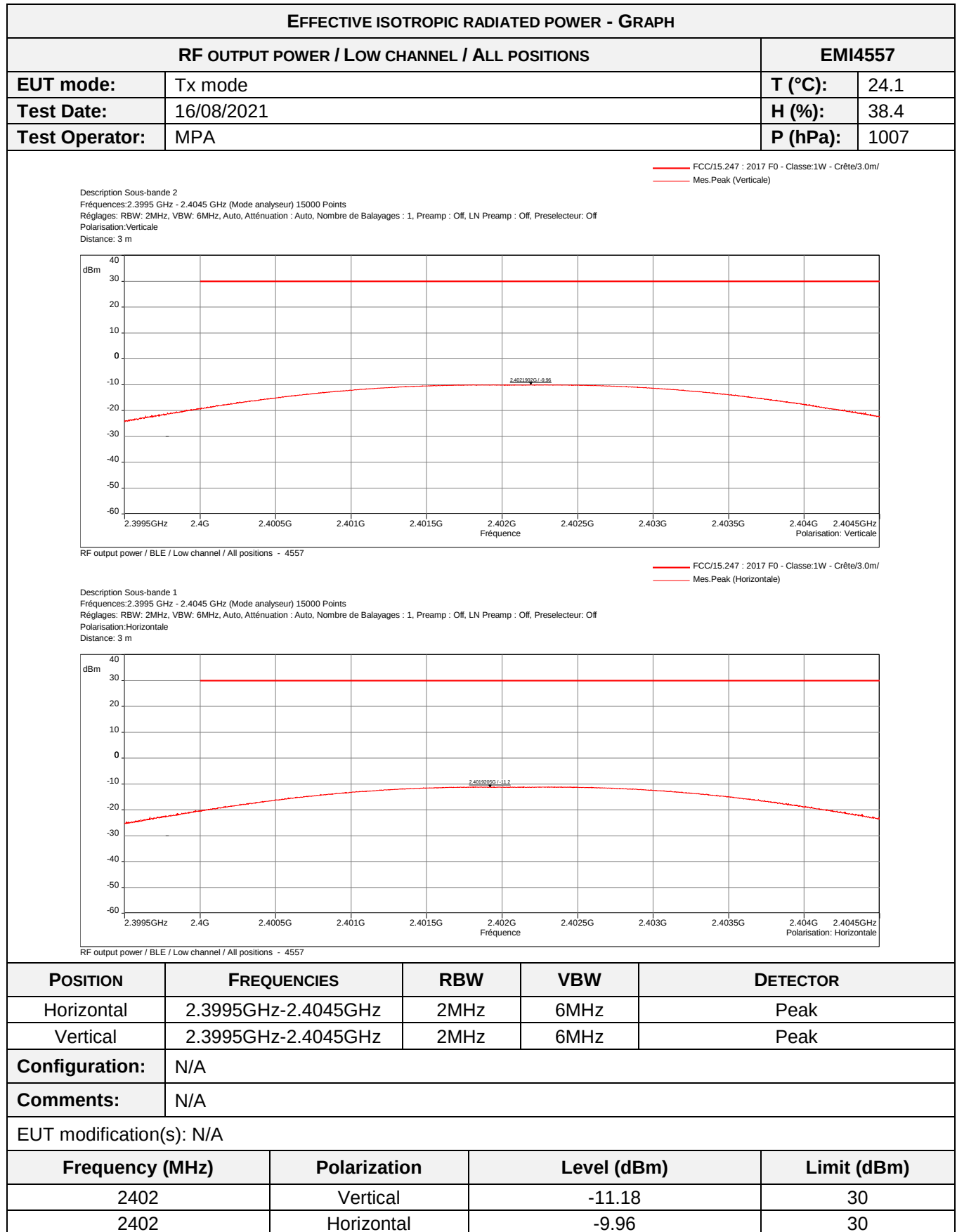


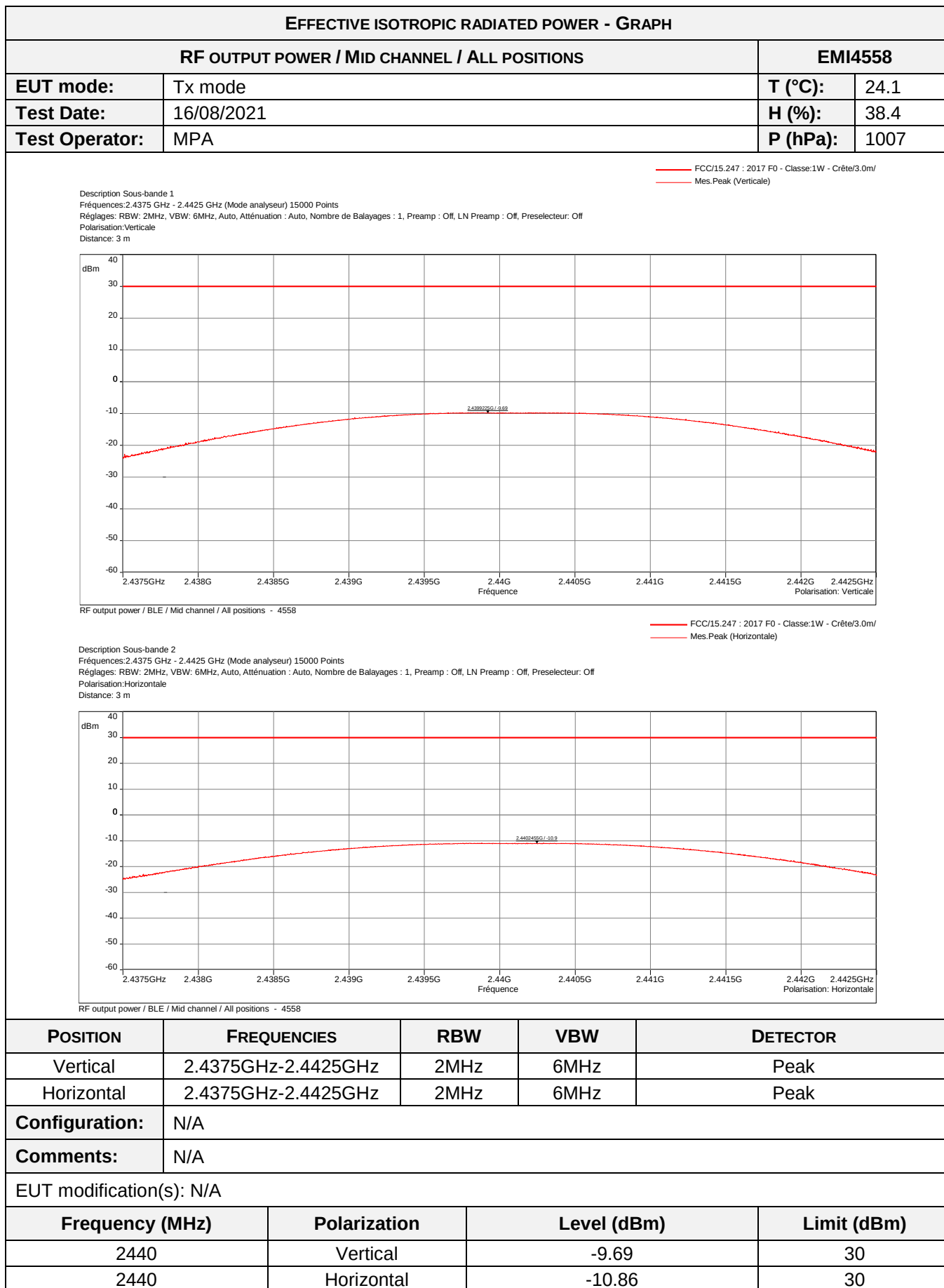
TEST SETUP PHOTO(S) - EQUIVALENT ISOTROPIC RADIATED POWER / POSITION 3

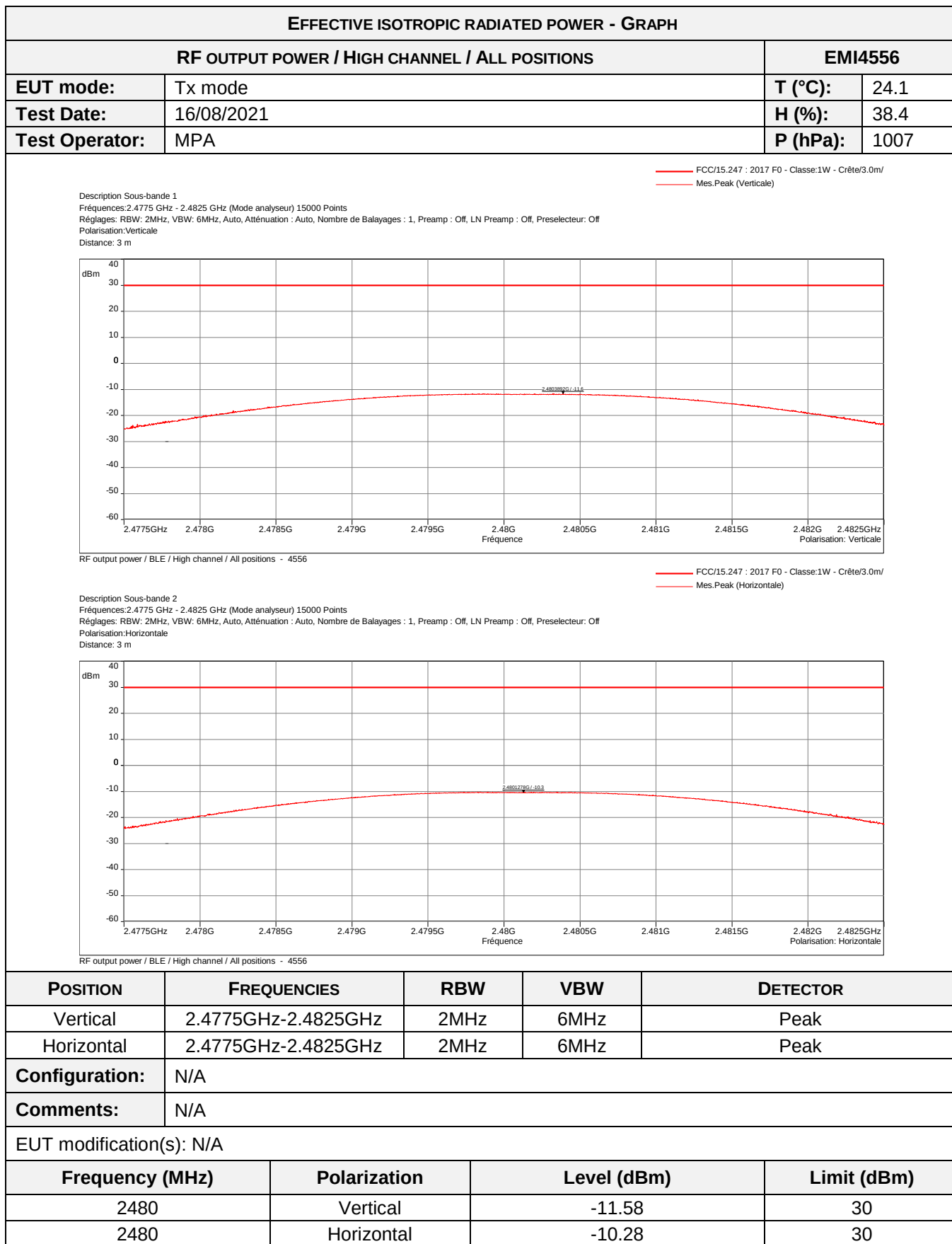


TEST SETUP PHOTO(S) - EQUIVALENT ISOTROPIC RADIATED POWER









### 7.3. Power spectral density

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC 47 CFR PART 15.247 and RSS 247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ANSI C63.10: 2013                  |
| <b>Test description: e)</b><br>For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.<br>EUT is connected to the measuring receiver via 50Ω attenuator(s). Only the highest levels are recorded. |                                    |

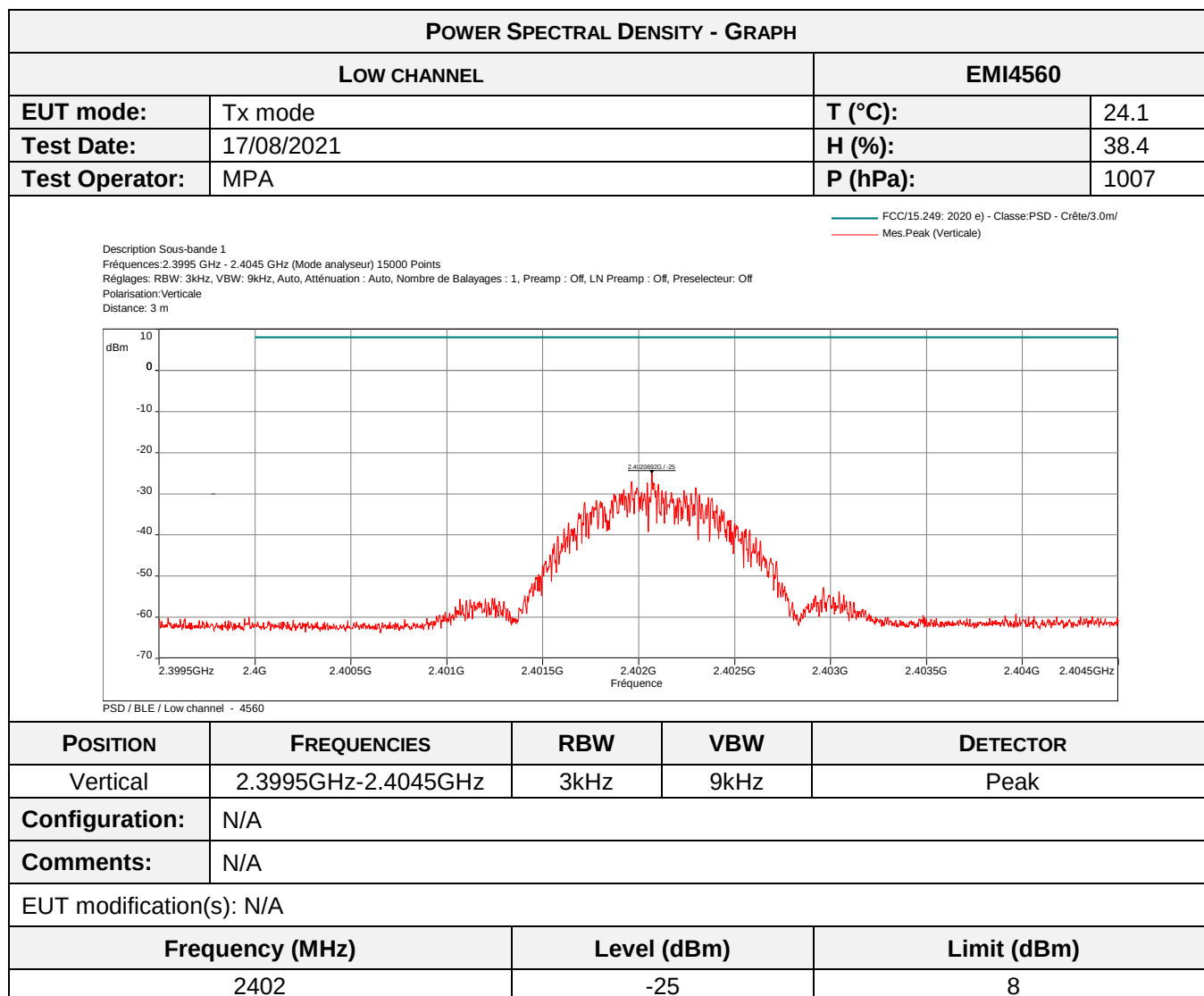
| TESTED CHANNEL | PARAMETER           | SEVERITY  | RESULT TAB. | VERDICT     |
|----------------|---------------------|-----------|-------------|-------------|
| Low channel    | 2.3995GHz-2.4045GHz | 8dBm/3kHz | EMI4560     | <b>PASS</b> |
| Mid channel    | 2.4375GHz-2.4425GHz | 8dBm/3kHz | EMI4561     | <b>PASS</b> |
| High channel   | 2.4775GHz-2.4825GHz | 8dBm/3kHz | EMI4562     | <b>PASS</b> |

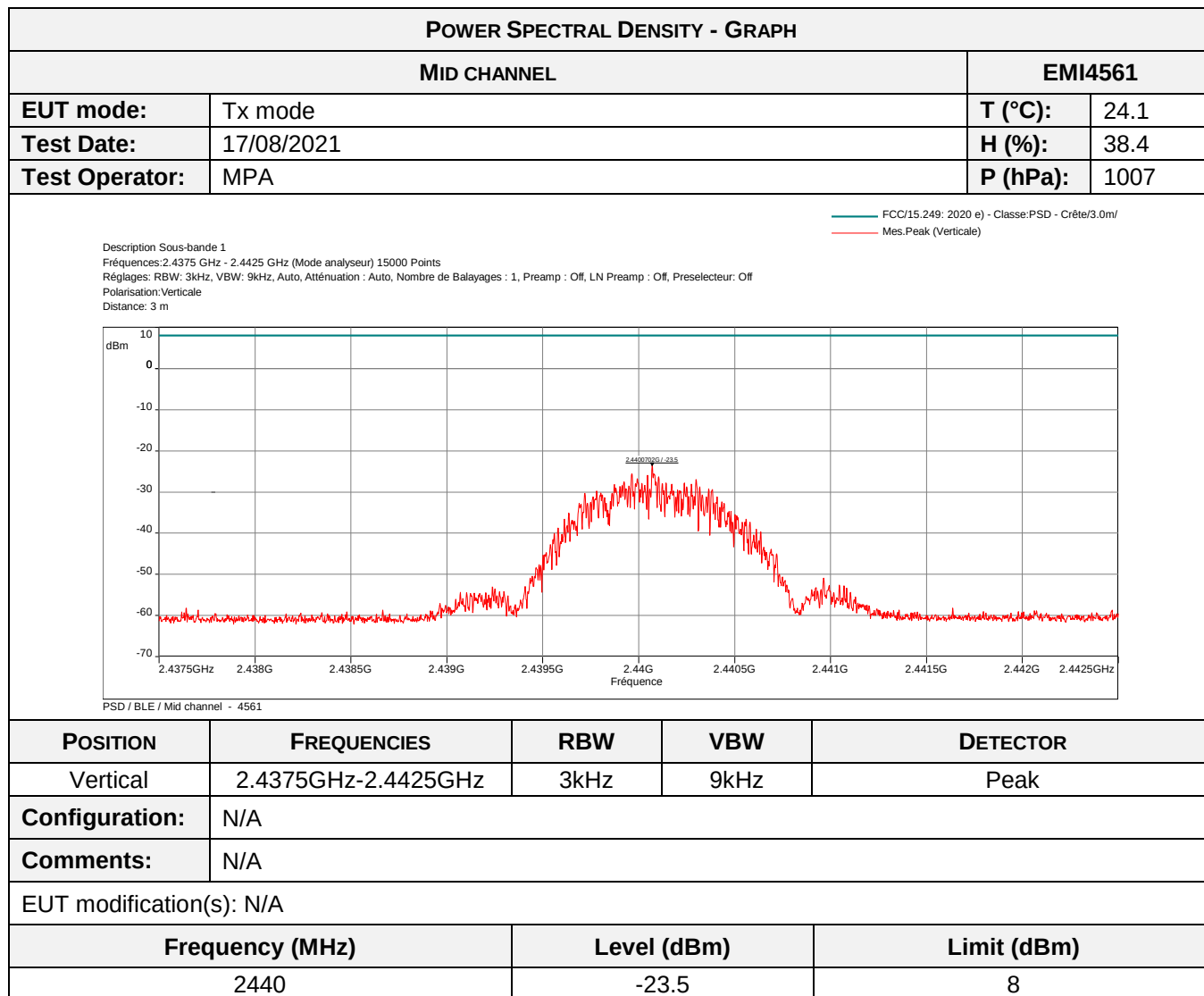
| LABORATORY PARAMETERS:                                                                   | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|------------------------------------------------------------------------------------------|----------------------------|-----------------|
| Ambient Temperature                                                                      | 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: N/A</b>                                                        |                            |                 |
| Supplementary information: Tests are done in worst case of position/polarization/azimuth |                            |                 |

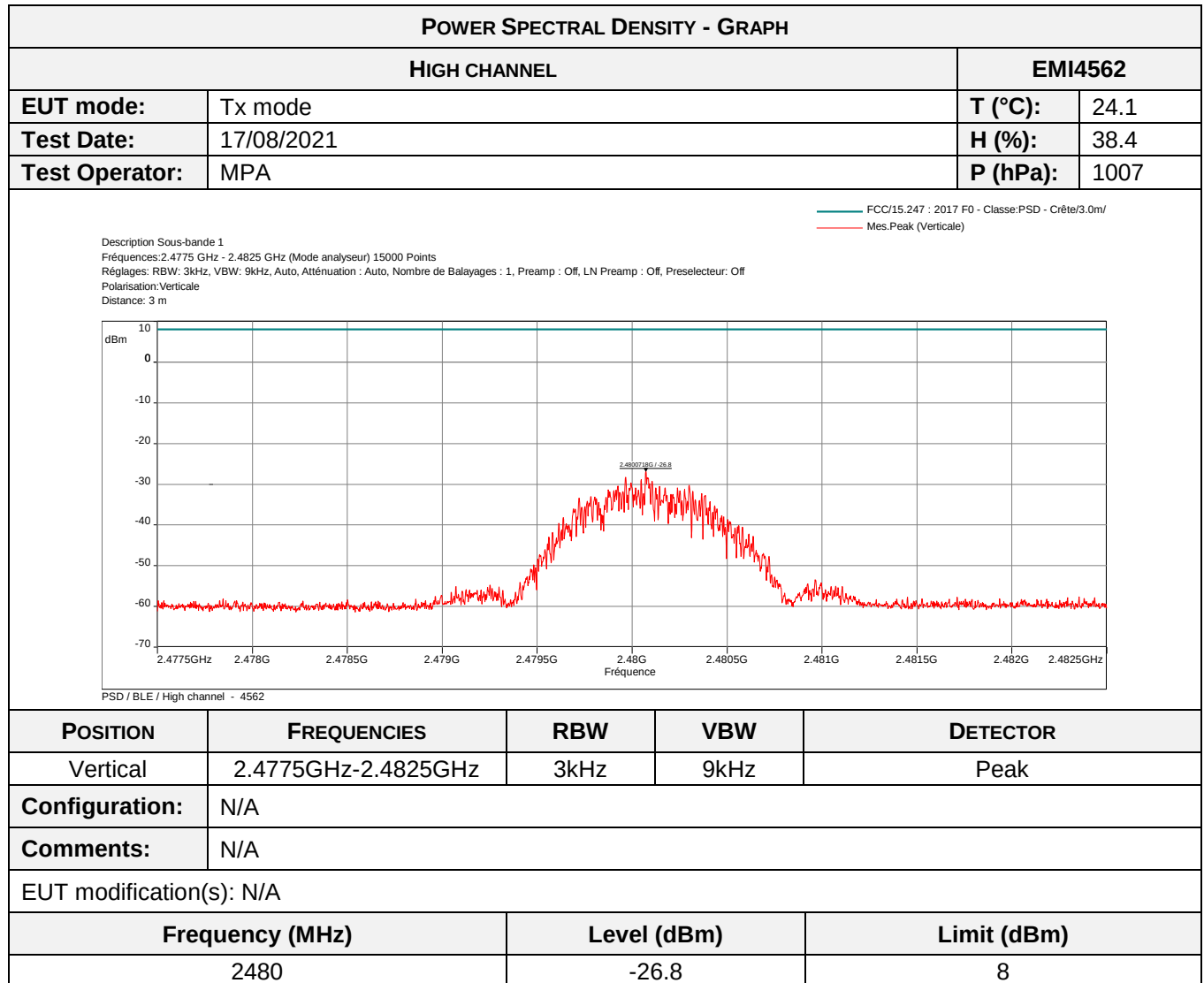
| TEST EQUIPMENT USED |                     |           |            |            |            |
|---------------------|---------------------|-----------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE      | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Attenuator          | EMITECH             | SUB.V2-H  | 14495      | 13/01/2021 | 13/03/2022 |
| Attenuator          | EMITECH             | SUB.V2-V  | 14496      | 13/01/2021 | 13/03/2022 |
| Cable               | SUCOFLEX            | N-3m      | 14378      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16042      | 24/03/2021 | 24/05/2023 |
| Converter           |                     | 2.15      | 9988       |            |            |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               | BAT EMC   | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 09/06/2021 | 09/08/2023 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 07/06/2021 | 07/08/2023 |

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity







## 7.4. Band-edge compliance

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FCC 47 CFR PART 15.247 and RSS 247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ANSI C63.10: 2013                  |
| <b>Test description: d)</b><br>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.<br>EUT is connected to the measuring receiver via 50Ω attenuator(s). Only the highest levels are recorded. |                                    |

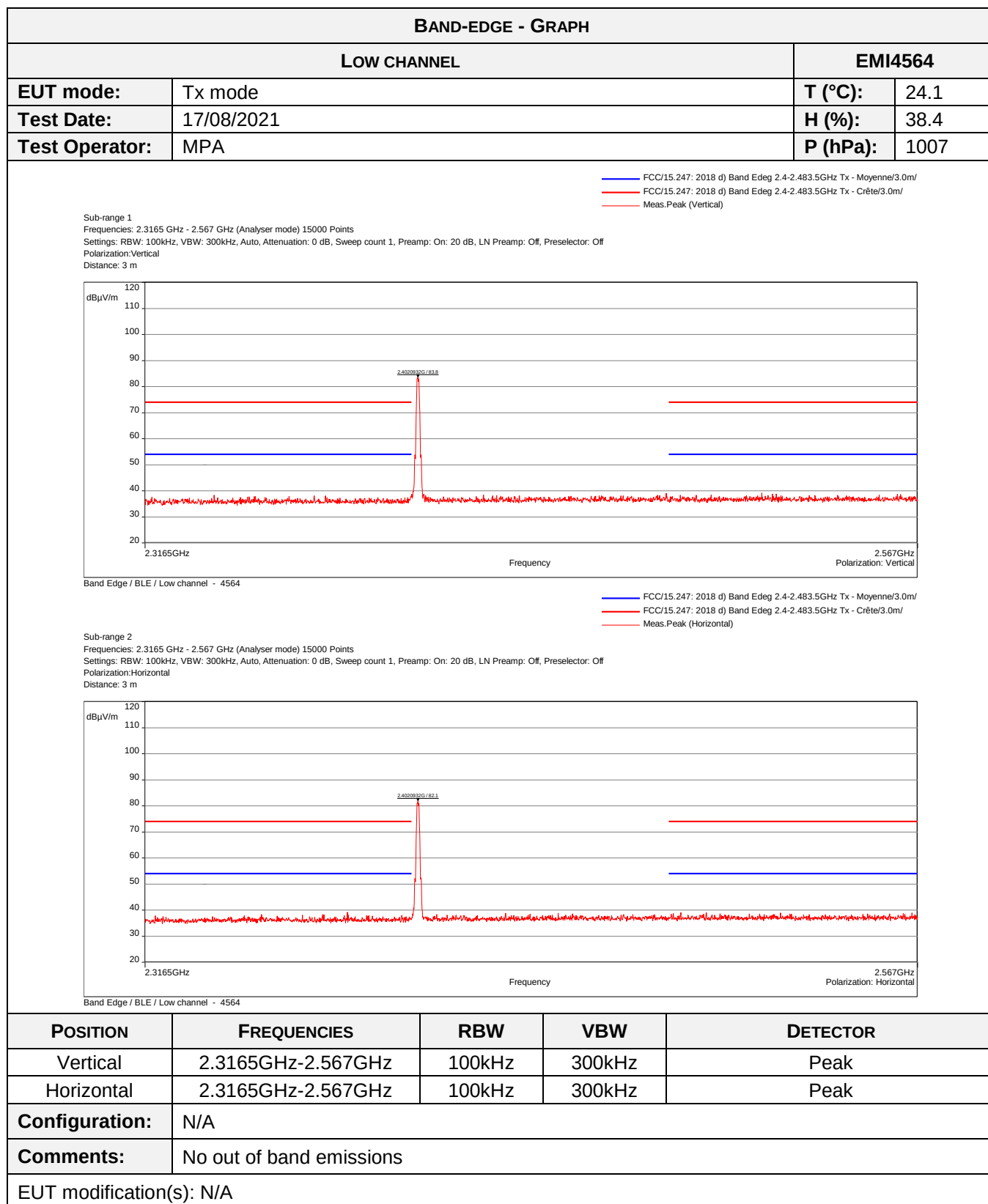
| TESTED CONFIGURATION | PARAMETER          | SEVERITY | RESULT TAB. | VERDICT     |
|----------------------|--------------------|----------|-------------|-------------|
| Low channel          | 2.3165GHz-2.567GHz | 15.209   | EMI4564     | <b>PASS</b> |
| Mid channel          | 2.3165GHz-2.567GHz | 15.209   | EMI4565     | <b>PASS</b> |
| High channel         | 2.3165GHz-2.567GHz | 15.209   | EMI4566     | <b>PASS</b> |

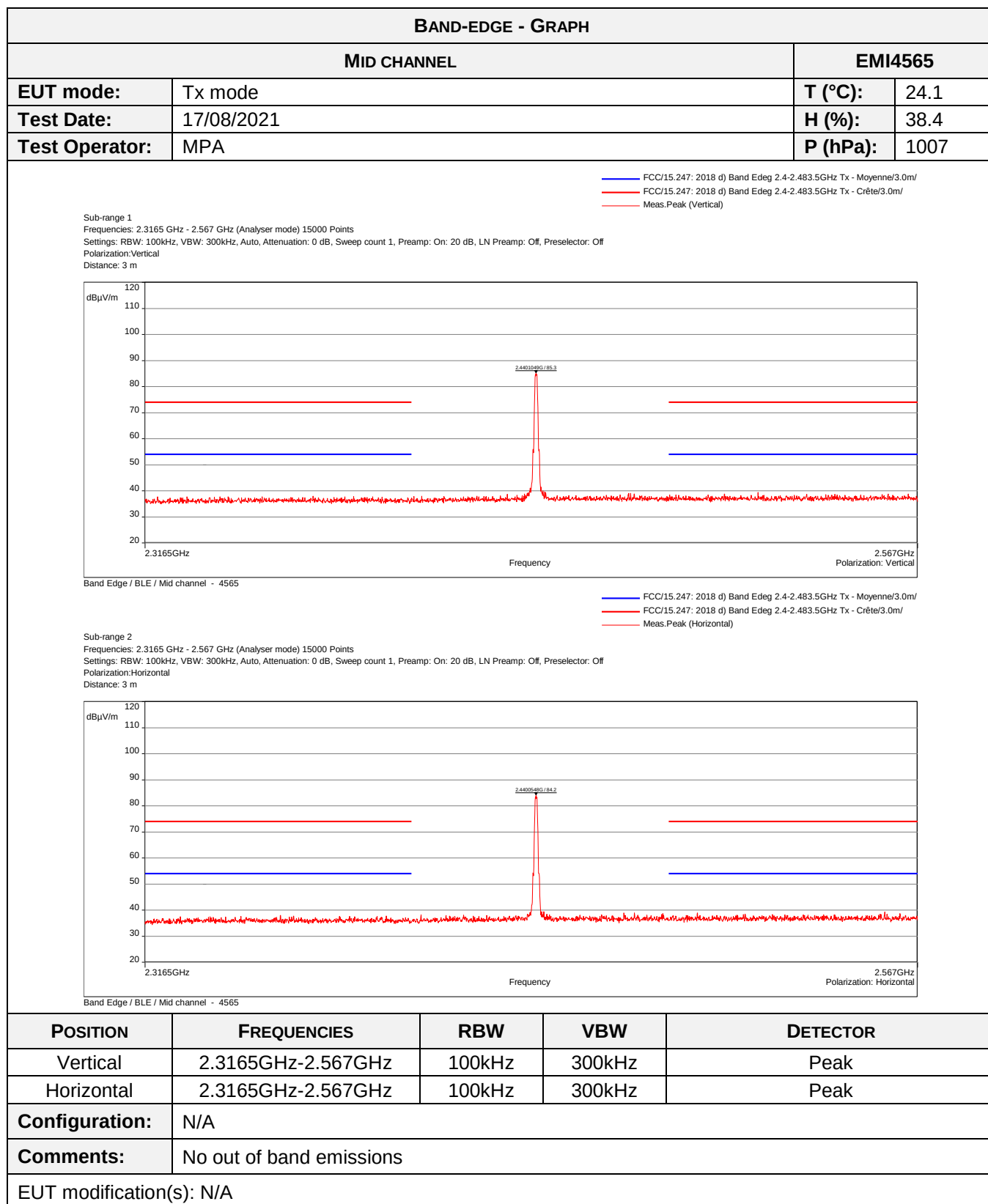
| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | See Graph(s)    |
| Relative Humidity                 | 20 to 75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

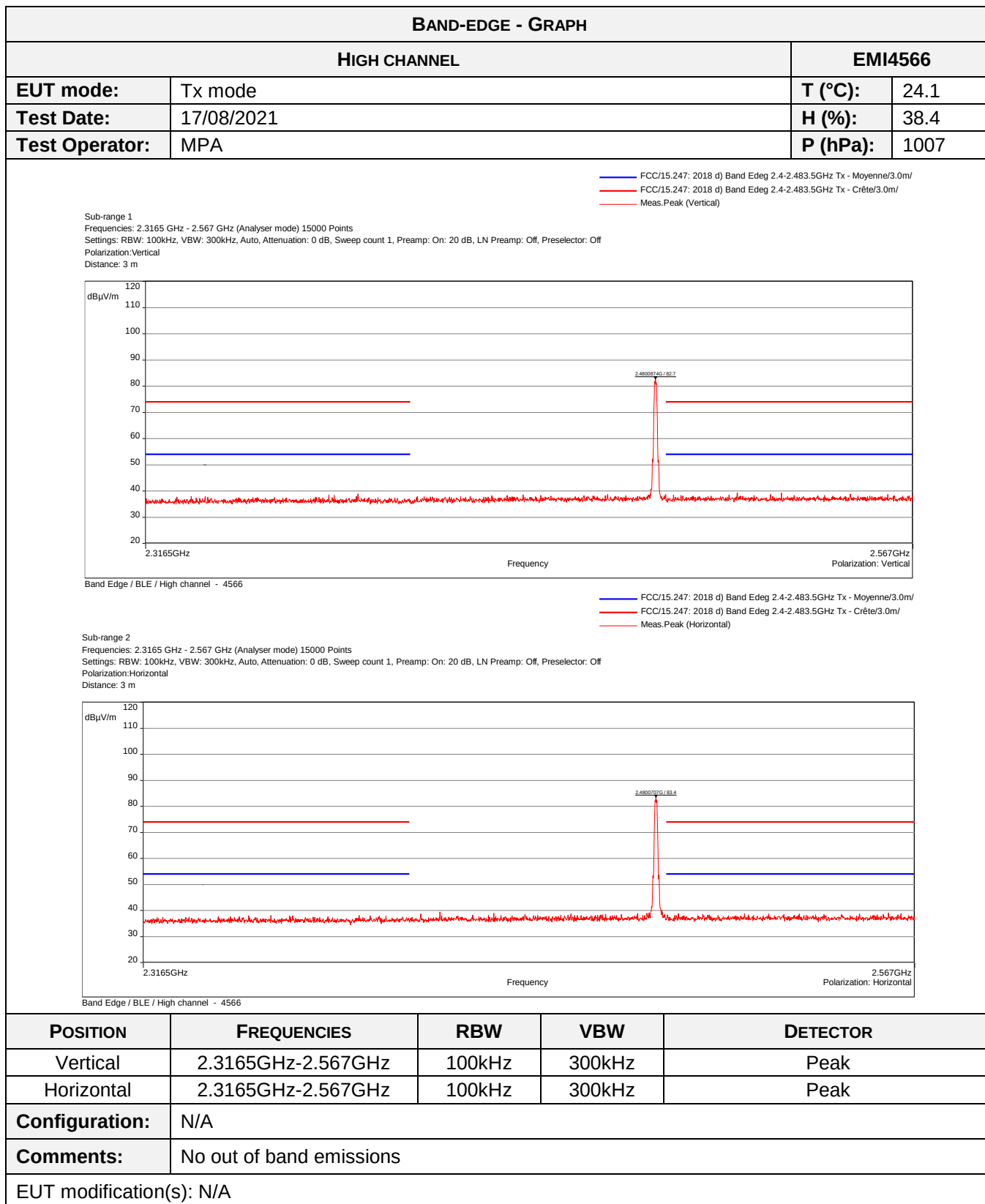
| TEST EQUIPMENT USED |                     |           |            |            |            |
|---------------------|---------------------|-----------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE      | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Cable               | SUCOFLEX            | N-3m      | 14378      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16042      | 24/03/2021 | 24/05/2023 |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               | BAT EMC   | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 09/06/2021 | 09/08/2023 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 07/06/2021 | 07/08/2023 |

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity







## 7.5. Radiated spurious emissions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FCC 47 CFR PART 15.109 & 15.209 and RSS 247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ANSI C63.4: 2014<br>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     |
|------------------------------------------------------------------------|------------|----------|-------------|-------------|
| Radiated measurement / All channels / All Positions / $0^\circ$        | 9kHz-30MHz | 15.209   | EMI4567     | <b>PASS</b> |
| Radiated measurement / All channels / All Positions / $45^\circ$       | 9kHz-30MHz | 15.209   | EMI4569     | <b>PASS</b> |
| Radiated measurement / All channels / All Positions / $90^\circ$       | 9kHz-30MHz | 15.209   | EMI4570     | <b>PASS</b> |
| Tx mode / for Freq $< 1\text{GHz}$ / All channels / All positions      | 30MHz-1GHz | 15.209   | EMI4593     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / Low channel (ch.37) / Position 1  | 1GHz-18GHz | 15.209   | EMI4544     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / Low channel (ch.37) / Position 2  | 1GHz-18GHz | 15.209   | EMI4550     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / Low channel (ch.37) / Position 3  | 1GHz-18GHz | 15.209   | EMI4551     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / Mid channel (ch.38) / Position 1  | 1GHz-18GHz | 15.209   | EMI4547     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / Mid channel (ch.38) / Position 2  | 1GHz-18GHz | 15.209   | EMI4548     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / Mid channel (ch.38) / Position 3  | 1GHz-18GHz | 15.209   | EMI4549     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / High channel (ch.39) / Position 1 | 1GHz-18GHz | 15.209   | EMI4552     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / High channel (ch.39) / Position 2 | 1GHz-18GHz | 15.209   | EMI4553     | <b>PASS</b> |
| Tx mode / for Freq $> 1\text{GHz}$ / High channel (ch.39) / Position 3 | 1GHz-18GHz | 15.209   | EMI4554     | <b>PASS</b> |

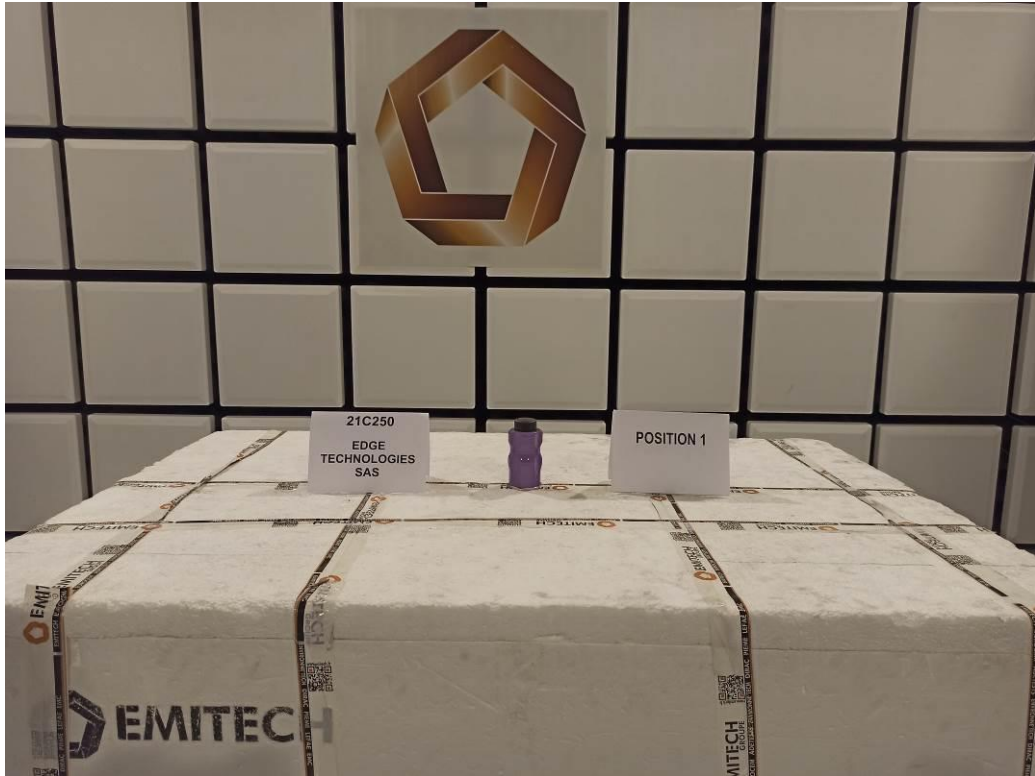
| LABORATORY PARAMETERS:                                                                                                                                                                                                                                                                                                                                                                                      | 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: N/A</b>                                                                                                                                                                                                                                                                                                                                                                           |                            |                 |
| Supplementary information:<br>From 9 kHz to 30MHz: limit indicated on the curves is calculated with 40 dB/decade extrapolation factor and 51.5 dB conversion factor.<br>From 30MHz to 1GHz Quasi peak limit provided is the limit given in §15.209.<br>Above 1GHz average limit in restricted bands §15.205 is 54dBµV/m. Otherwise, the limit is 20dB under carrier emission level at 3m without averaging. |                            |                 |

| TEST EQUIPMENT USED |                     |               |            |            |            |
|---------------------|---------------------|---------------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE          | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | Rohde & Schwarz     | HFH2-Z2       | 5825       | 24/04/2020 | 24/06/2022 |
| Antenna             | ETS-Lindgren        | 3117          | 5456       | 24/07/2019 | 24/09/2022 |
| Antenna             | Electro Metrics     | BIA-30HF      | 1107       | 27/06/2018 | 27/02/2022 |
| Antenna             | Rohde & Schwarz     | HL223         | 1137       | 27/06/2018 | 27/02/2022 |
| Cable               | MegaPhase           | F135N1N28     | 16667      | 25/10/2019 | 25/12/2021 |
| Cable               | MegaPhase           | F135N1N28     | 16668      | 25/10/2019 | 25/12/2021 |
| Cable               | SUCOFLEX            | N-3m          | 14378      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-3m          | 14379      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-5,5m        | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-6,5m        | 14380      | 25/07/2019 | 25/09/2021 |
| 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       | HPM 15162     | 10273      | 12/01/2019 | 12/03/2022 |
| Filter              | Micro-Tronics       | HPM18865      | 12843      | 09/06/2018 | 09/02/2022 |
| Preamplifier        | Techniwave          | APS16-0087    | 14040      | 02/12/2020 | 02/02/2022 |
| Receiver            | Rohde & Schwarz     | ESW26         | 17791      | 14/04/2021 | 14/06/2022 |
| Receiver            | Rohde & Schwarz     | FSW43         | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2          | 1423       | 04/10/2019 | 04/12/2022 |
| Shielded enclosure  | COMTEST             | SAC 3m        | 14494      | 02/10/2019 | 02/12/2022 |
| Software            | Nexio               | BAT EMC       | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1        | 7562       | 09/06/2021 | 09/08/2023 |
| 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 EMISSION LIMITS – POSITION 1



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – POSITION 2



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – POSITION 3



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – 9 KHZ TO 30 MHZ



**TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – 30 MHz TO 200 MHz**



**TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – 200 MHz TO 1 GHz**



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – 1 GHz TO 18 GHz

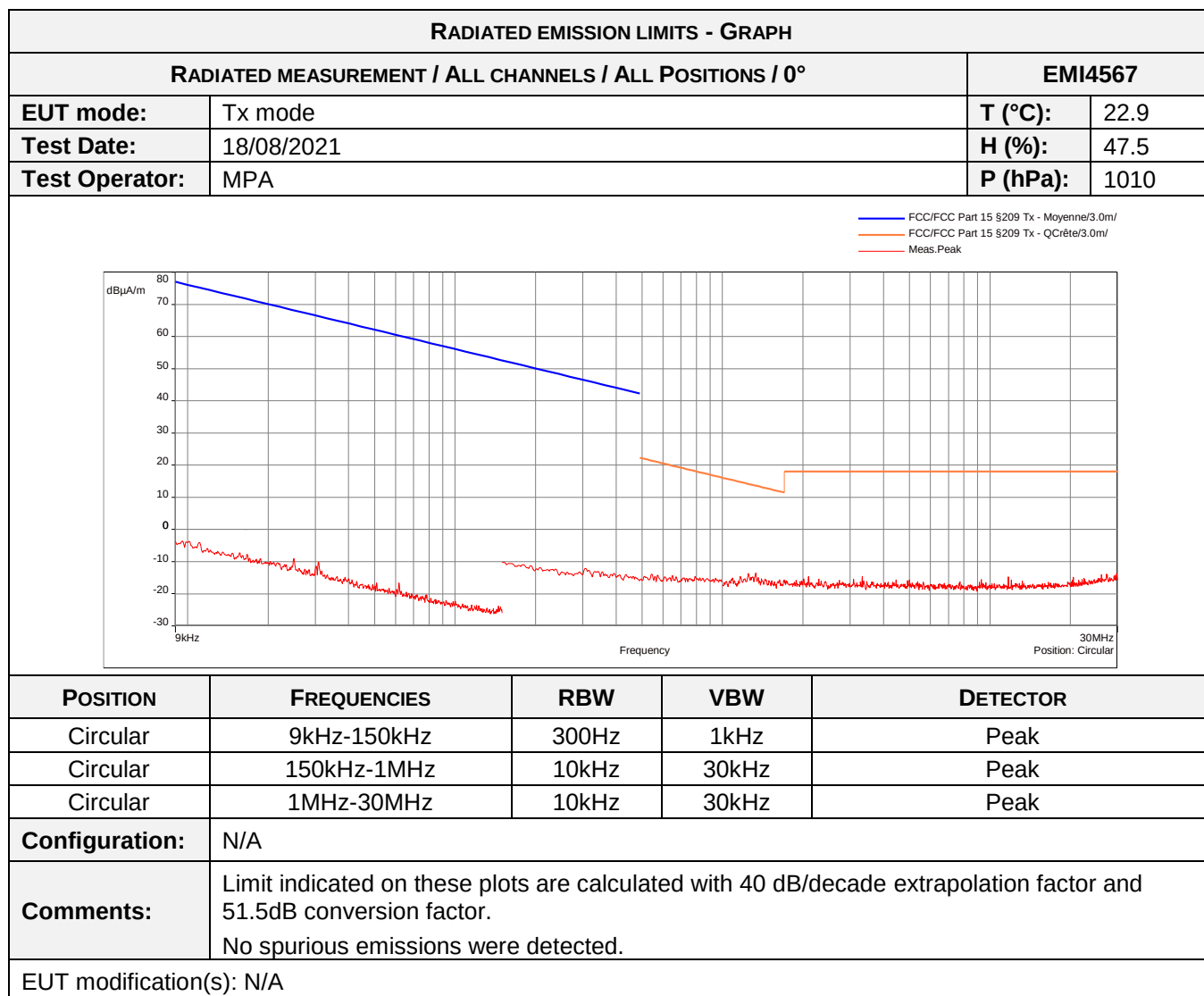


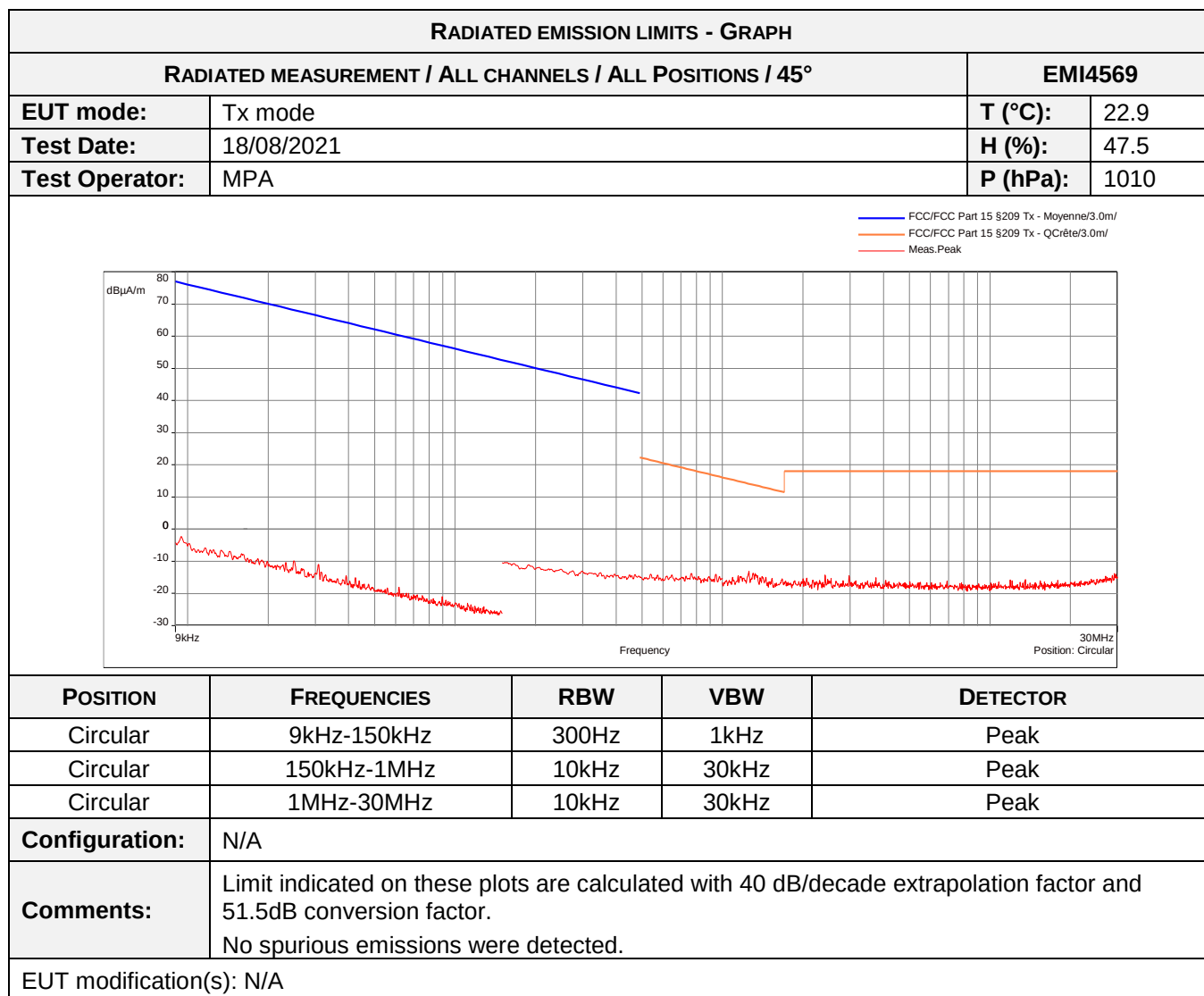
| RADIATED EMISSION LIMITS – TABULATED RESULTS             |              |               |                     |                                |                                |                |
|----------------------------------------------------------|--------------|---------------|---------------------|--------------------------------|--------------------------------|----------------|
| TX MODE / FOR FREQ < 1GHz / ALL CHANNELS / ALL POSITIONS |              |               |                     |                                |                                |                |
| FREQUENCY (MHz)                                          | POLARIZATION | EUT POSITION  | PEAK LEVEL (dBµV/m) | AVERAGE / QPEAK LEVEL (dBµV/m) | AVERAGE / QPEAK LIMIT (dBµV/m) | MARGINING (dB) |
| 936.84                                                   | Vertical     | All positions | 30.84               | 24.71                          | 46                             | -21.29         |
| Supplementary information: N/A                           |              |               |                     |                                |                                |                |

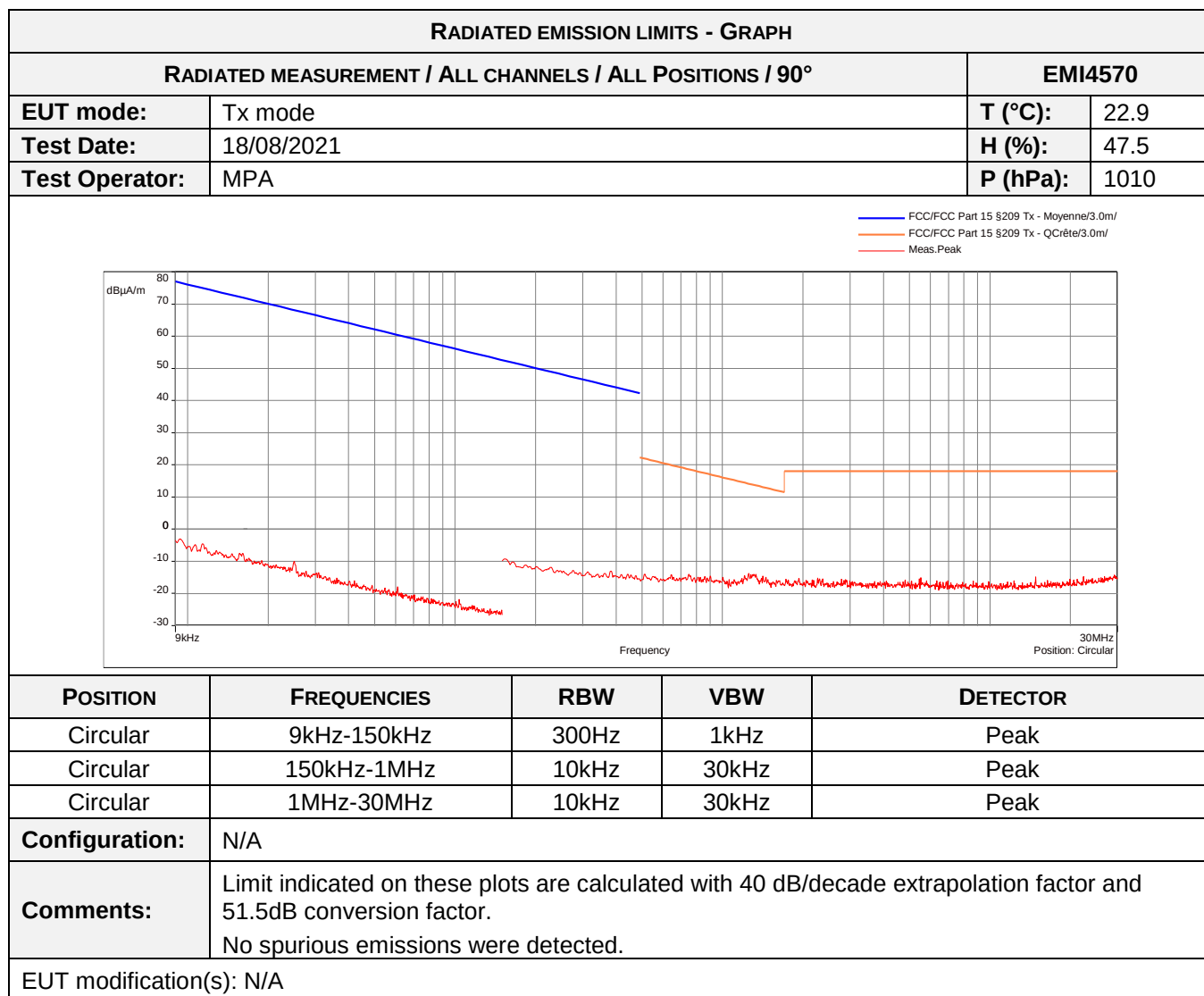
| RADIATED EMISSION LIMITS – TABULATED RESULTS                                                                                          |              |              |                     |                        |                        |                |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------------|------------------------|------------------------|----------------|
| TX MODE / FOR FREQ > 1GHz / LOW CHANNEL (CH.37)                                                                                       |              |              |                     |                        |                        |                |
| FREQUENCY (MHz)                                                                                                                       | POLARIZATION | EUT POSITION | PEAK LEVEL (dBµV/m) | AVERAGE LEVEL (dBµV/m) | AVERAGE LIMIT (dBµV/m) | MARGINING (dB) |
| 4803.56                                                                                                                               | Vertical     | Position 1   | 50.40               | 47.28                  | 54                     | -6.72          |
| 7205.14                                                                                                                               | Vertical     | Position 1   | 44.75               | 39.52                  | 54                     | -14.48         |
| 4803.56                                                                                                                               | Horizontal   | Position 1   | 48.95               | 46.21                  | 54                     | -7.79          |
| 4803.56                                                                                                                               | Vertical     | Position 2   | 55.13               | 53.98                  | 54                     | -0.02          |
| 4804.56                                                                                                                               | Horizontal   | Position 2   | 51.13               | 49.64                  | 54                     | -4.36          |
| 7206.64                                                                                                                               | Horizontal   | Position 2   | 44.12               | 38.70                  | 54                     | -15.30         |
| 4803.56                                                                                                                               | Vertical     | Position 3   | 47.35               | 44.39                  | 54                     | -9.61          |
| 4804.56                                                                                                                               | Horizontal   | Position 3   | 54.48               | 53.30                  | 54                     | -0.70          |
| 7205.64                                                                                                                               | Horizontal   | Position 3   | 45.31               | 40.67                  | 54                     | -13.33         |
| 9555.71                                                                                                                               | Horizontal   | Position 3   | 47.99               | 41.60                  | 54                     | -12.40         |
| Supplementary information: Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported. |              |              |                     |                        |                        |                |
| A prescan above 18GHz was performed with no spurious detected.                                                                        |              |              |                     |                        |                        |                |

| RADIATED EMISSION LIMITS – TABULATED RESULTS                                                                                          |              |              |                     |                        |                        |                |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------------|------------------------|------------------------|----------------|
| TX MODE / FOR FREQ > 1GHz / MID CHANNEL (CH.38)                                                                                       |              |              |                     |                        |                        |                |
| FREQUENCY (MHz)                                                                                                                       | POLARIZATION | EUT POSITION | PEAK LEVEL (dBµV/m) | AVERAGE LEVEL (dBµV/m) | AVERAGE LIMIT (dBµV/m) | MARGINING (dB) |
| 2567.51                                                                                                                               | Vertical     | Position 1   | 45.06               | 42.61                  | 54                     | -11.39         |
| 4879.56                                                                                                                               | Vertical     | Position 1   | 49.44               | 47.42                  | 54                     | -6.58          |
| 7320.14                                                                                                                               | Vertical     | Position 1   | 44.70               | 40.42                  | 54                     | -13.58         |
| 2556.65                                                                                                                               | Horizontal   | Position 1   | 45.42               | 38.94                  | 54                     | -15.06         |
| 4880.56                                                                                                                               | Horizontal   | Position 1   | 48.36               | 46.37                  | 54                     | -7.63          |
| 2567.85                                                                                                                               | Vertical     | Position 2   | 46.44               | 39.13                  | 54                     | -14.87         |
| 4880.06                                                                                                                               | Vertical     | Position 2   | 53.12               | 52.23                  | 54                     | -1.77          |
| 2560.25                                                                                                                               | Horizontal   | Position 2   | 44.78               | 42.85                  | 54                     | -11.15         |
| 4879.56                                                                                                                               | Horizontal   | Position 2   | 49.35               | 46.39                  | 54                     | -7.61          |
| 4879.56                                                                                                                               | Vertical     | Position 3   | 46.55               | 43.88                  | 54                     | -10.12         |
| 2557.25                                                                                                                               | Horizontal   | Position 3   | 47.63               | 42.21                  | 54                     | -11.79         |
| 4879.56                                                                                                                               | Horizontal   | Position 3   | 53.39               | 52.49                  | 54                     | -1.51          |
| 7320.64                                                                                                                               | Horizontal   | Position 3   | 45.27               | 39.47                  | 54                     | -14.53         |
| Supplementary information: Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported. |              |              |                     |                        |                        |                |
| A prescan above 18GHz was performed with no spurious detected.                                                                        |              |              |                     |                        |                        |                |

| RADIATED EMISSION LIMITS – TABULATED RESULTS                                                                                          |              |              |                     |                        |                        |              |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------------|------------------------|------------------------|--------------|
| TX MODE / FOR FREQ > 1GHz / HIGH CHANNEL (CH.39)                                                                                      |              |              |                     |                        |                        |              |
| FREQUENCY (MHz)                                                                                                                       | POLARIZATION | EUT POSITION | PEAK LEVEL (dBµV/m) | AVERAGE LEVEL (dBµV/m) | AVERAGE LIMIT (dBµV/m) | MARGING (dB) |
| 2565.38                                                                                                                               | Vertical     | Position 1   | 52.99               | 49.48                  | 54                     | -4.52        |
| 4959.56                                                                                                                               | Vertical     | Position 1   | 50.38               | 48.85                  | 54                     | -5.15        |
| 4960.56                                                                                                                               | Horizontal   | Position 1   | 47.94               | 47.10                  | 54                     | -6.90        |
| 2565.05                                                                                                                               | Vertical     | Position 2   | 53.73               | 49.71                  | 54                     | -4.29        |
| 4959.06                                                                                                                               | Vertical     | Position 2   | 54.13               | 52.42                  | 54                     | -1.58        |
| 4960.56                                                                                                                               | Horizontal   | Position 2   | 50.48               | 49.21                  | 54                     | -4.79        |
| 4960.56                                                                                                                               | Vertical     | Position 3   | 47.42               | 43.45                  | 54                     | -10.55       |
| 4959.56                                                                                                                               | Horizontal   | Position 3   | 54.33               | 53.08                  | 54                     | -0.92        |
| 7440.14                                                                                                                               | Horizontal   | Position 3   | 44.15               | 39.78                  | 54                     | -14.22       |
| Supplementary information: Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported. |              |              |                     |                        |                        |              |
| A prescan above 18GHz was performed with no spurious detected.                                                                        |              |              |                     |                        |                        |              |







## RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

TX MODE / FOR FREQ &lt; 1GHz / ALL CHANNELS / ALL POSITIONS

EMI4593

EUT mode: Tx mode

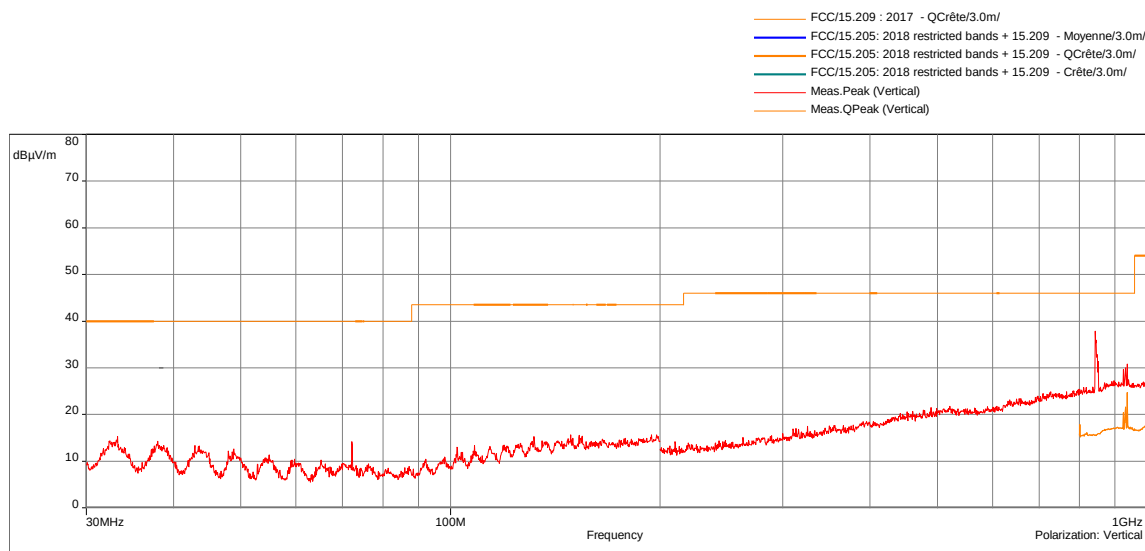
T (°C): 23.1

Test Date: 18/08/2021

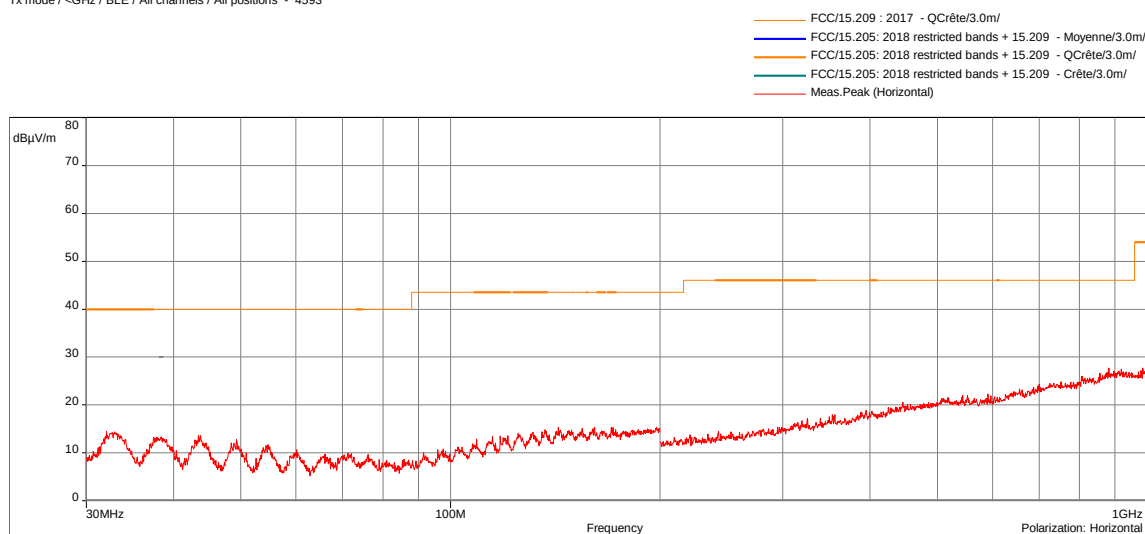
H (%): 46

Test Operator: MPA

P (hPa): 1010

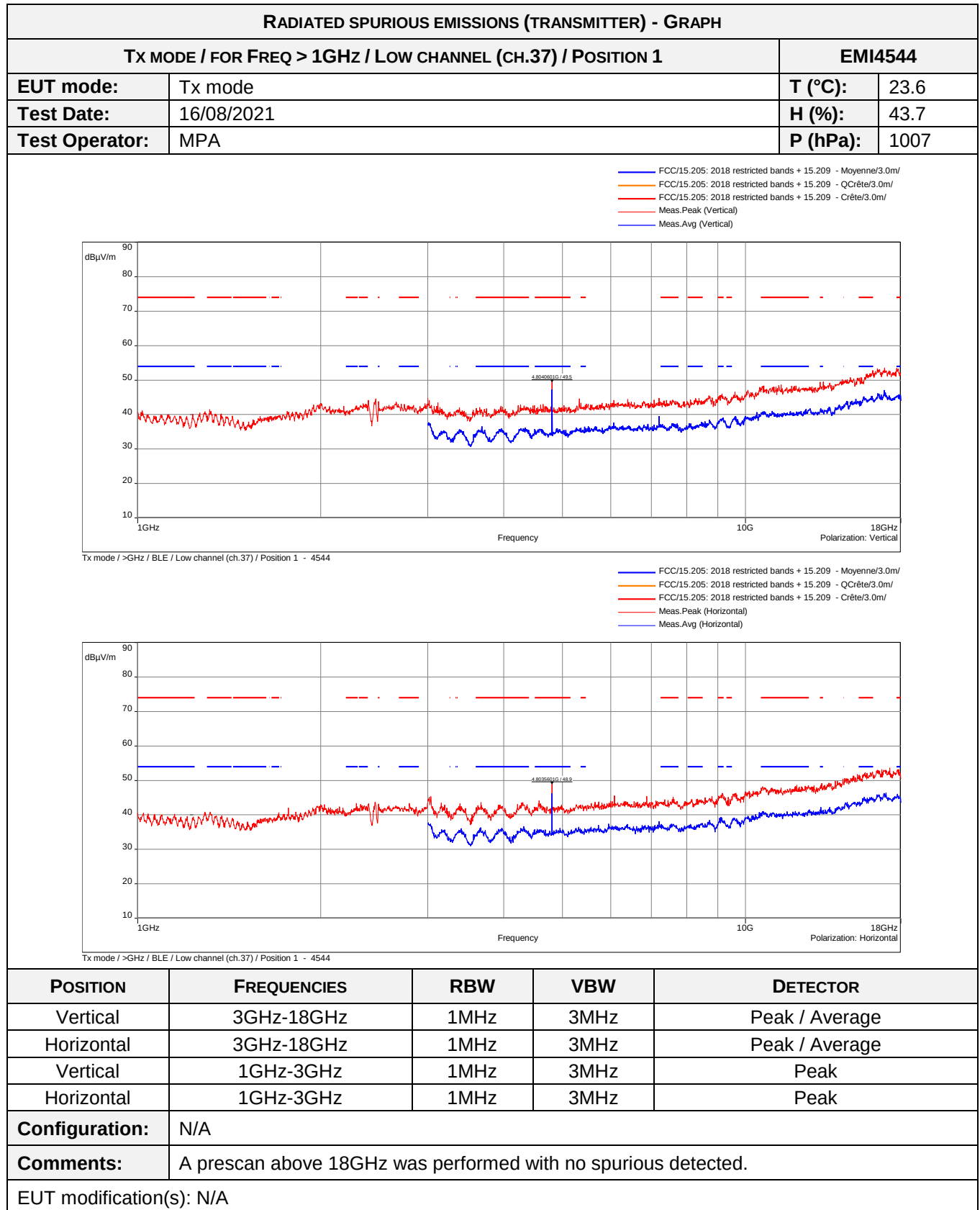


Tx mode / &lt;GHz / BLE / All channels / All positions - 4593



Tx mode / &lt;GHz / BLE / All channels / All positions - 4593

| 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     |
| Vertical                 | 800MHz-1GHz                                                                                                                                       | 120kHz | 360kHz | QPeak    |
| Configuration:           | N/A                                                                                                                                               |        |        |          |
| Comments:                | No spurious emissions were detected.<br>Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported |        |        |          |
| EUT modification(s): N/A |                                                                                                                                                   |        |        |          |

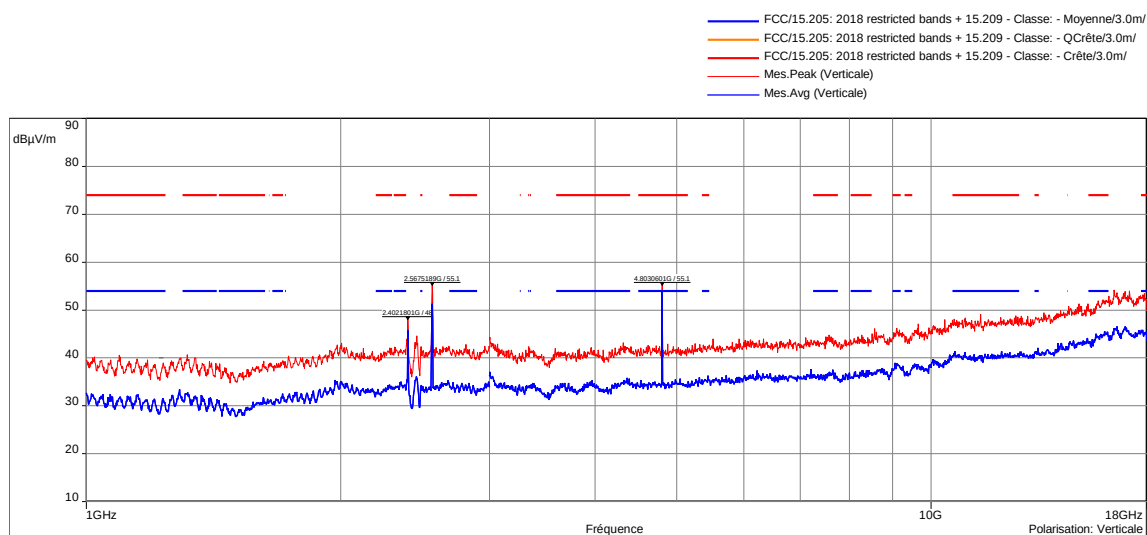


## RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

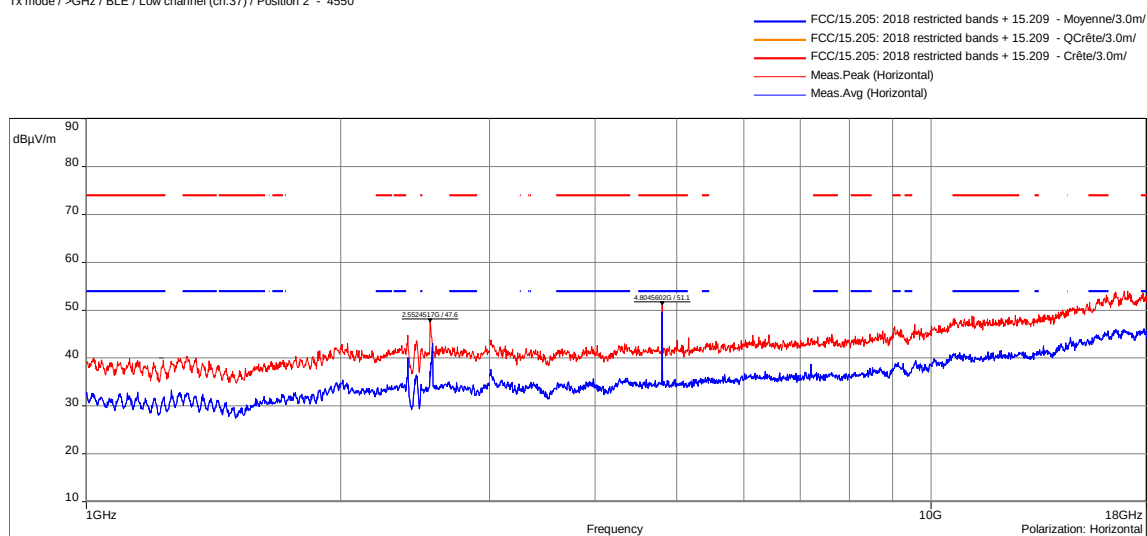
TX MODE / FOR FREQ &gt; 1GHz / Low CHANNEL (ch.37) / POSITION 2

EMI4550

|                |            |          |      |
|----------------|------------|----------|------|
| EUT mode:      | Tx mode    | T (°C):  | 23.6 |
| Test Date:     | 16/08/2021 | H (%):   | 43.7 |
| Test Operator: | MPA        | P (hPa): | 1007 |

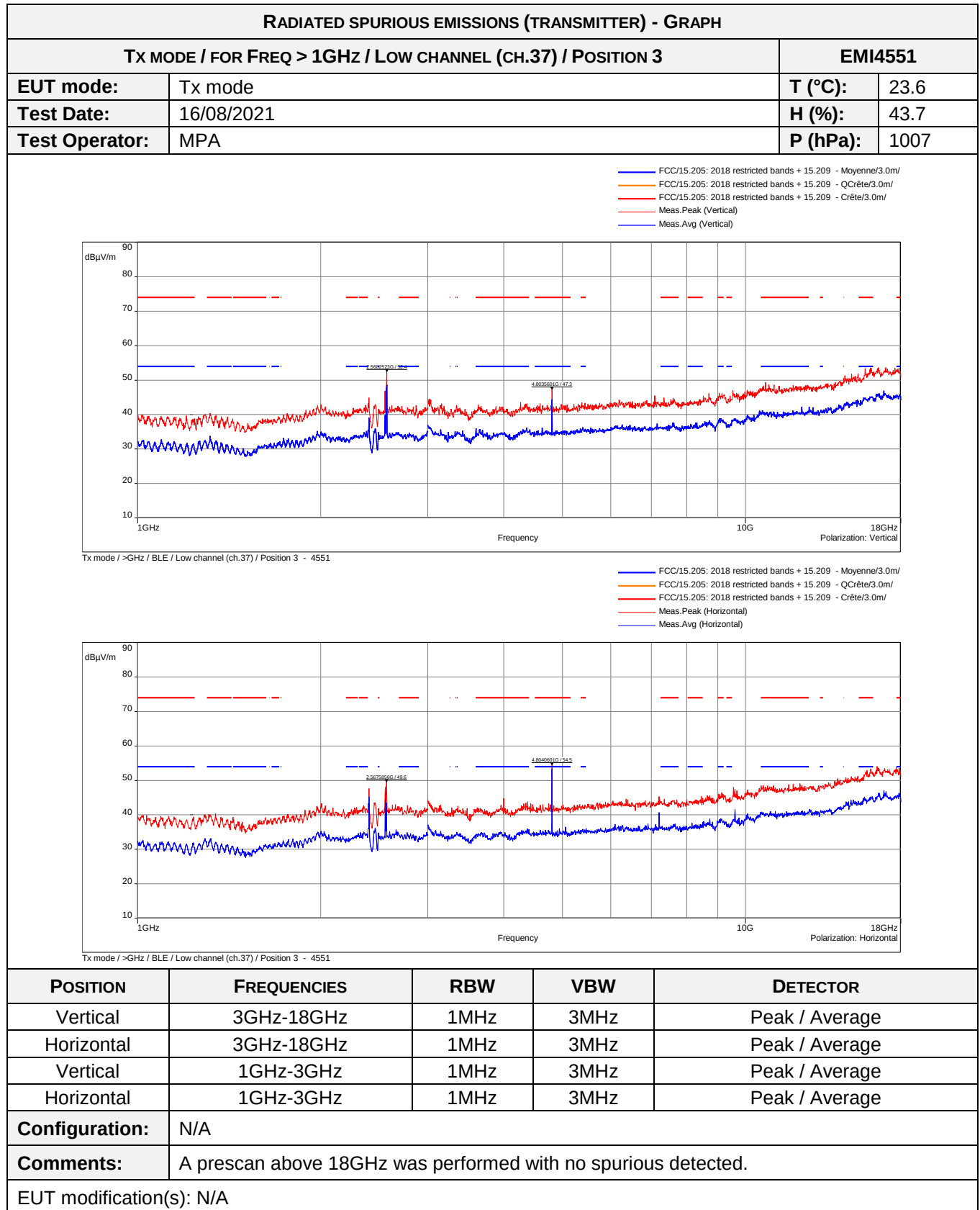


Tx mode / &gt;GHz / BLE / Low channel (ch.37) / Position 2 - 4550



Tx mode / &gt;GHz / BLE / Low channel (ch.37) / Position 2 - 4550

| POSITION             | FREQUENCIES                                                    | RBW  | VBW  | DETECTOR       |
|----------------------|----------------------------------------------------------------|------|------|----------------|
| Vertical             | 3GHz-18GHz                                                     | 1MHz | 3MHz | Peak / Average |
| Horizontal           | 3GHz-18GHz                                                     | 1MHz | 3MHz | Peak / Average |
| Vertical             | 1GHz-3GHz                                                      | 1MHz | 3MHz | Peak / Average |
| Horizontal           | 1GHz-3GHz                                                      | 1MHz | 3MHz | Peak / Average |
| Configuration:       | N/A                                                            |      |      |                |
| Comments:            | A prescan above 18GHz was performed with no spurious detected. |      |      |                |
| EUT modification(s): | N/A                                                            |      |      |                |

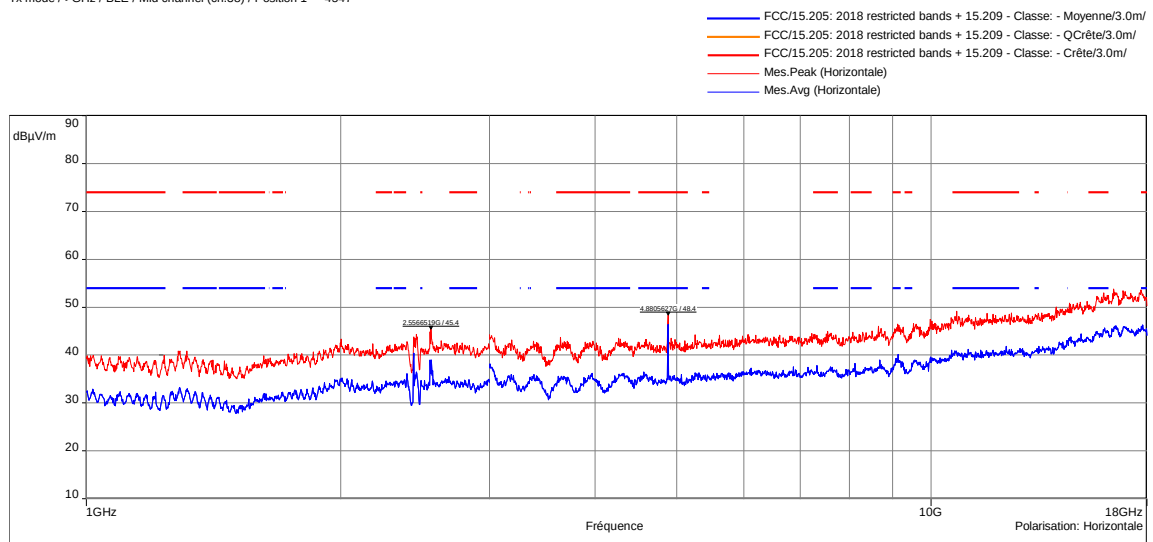
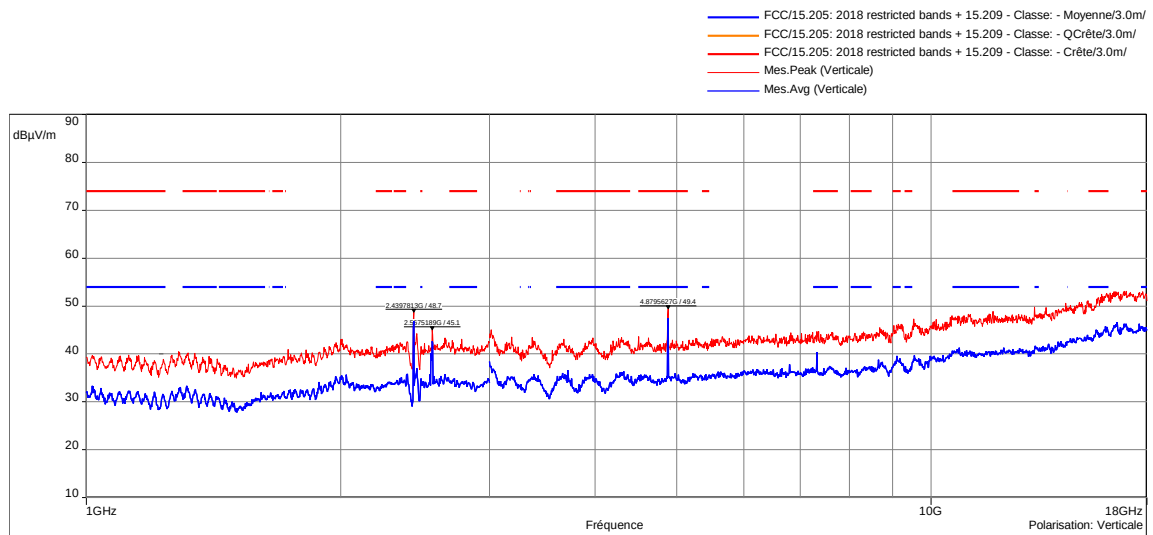


## RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

TX MODE / FOR FREQ &gt; 1GHz / MID CHANNEL (ch.38) / POSITION 1

EMI4547

|                |            |          |      |
|----------------|------------|----------|------|
| EUT mode:      | Tx mode    | T (°C):  | 23.6 |
| Test Date:     | 16/08/2021 | H (%):   | 43.7 |
| Test Operator: | MPA        | P (hPa): | 1007 |



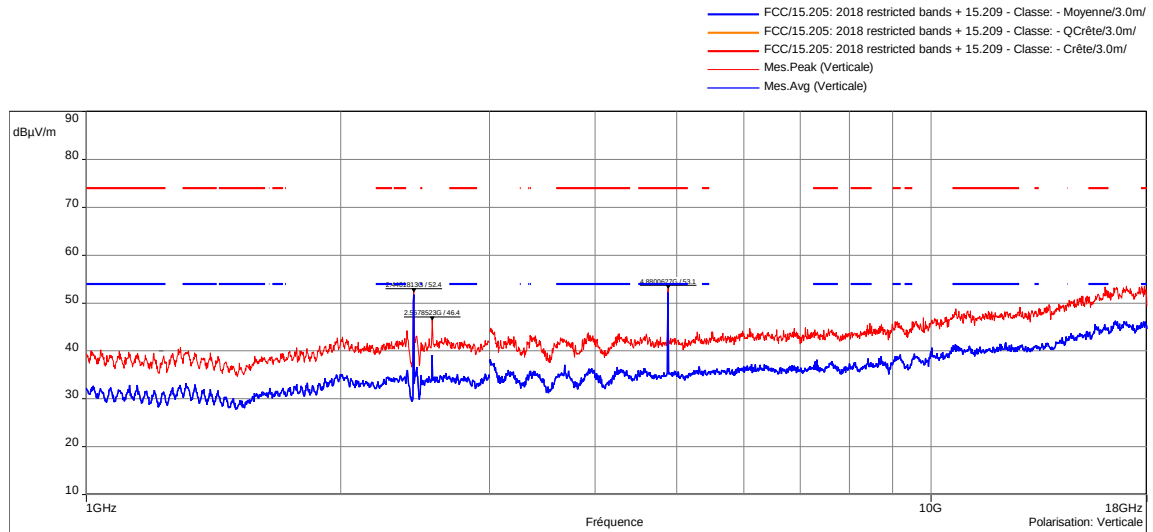
| POSITION                 | FREQUENCIES                                                    | RBW  | VBW  | DETECTOR       |
|--------------------------|----------------------------------------------------------------|------|------|----------------|
| Vertical                 | 3GHz-18GHz                                                     | 1MHz | 3MHz | Peak / Average |
| Horizontal               | 3GHz-18GHz                                                     | 1MHz | 3MHz | Peak / Average |
| Vertical                 | 1GHz-3GHz                                                      | 1MHz | 3MHz | Peak / Average |
| Horizontal               | 1GHz-3GHz                                                      | 1MHz | 3MHz | Peak / Average |
| Configuration:           | N/A                                                            |      |      |                |
| Comments:                | A prescan above 18GHz was performed with no spurious detected. |      |      |                |
| EUT modification(s): N/A |                                                                |      |      |                |

## RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

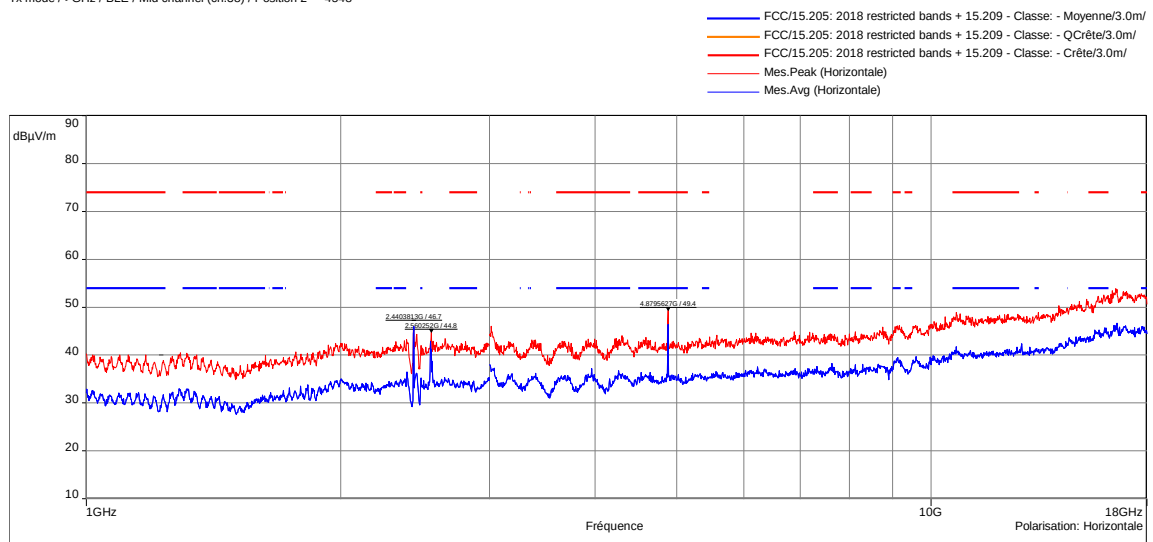
TX MODE / FOR FREQ &gt; 1GHz / MID CHANNEL (ch.38) / POSITION 2

EMI4548

|                |            |          |      |
|----------------|------------|----------|------|
| EUT mode:      | Tx mode    | T (°C):  | 23.6 |
| Test Date:     | 16/08/2021 | H (%):   | 43.7 |
| Test Operator: | MPA        | P (hPa): | 1007 |

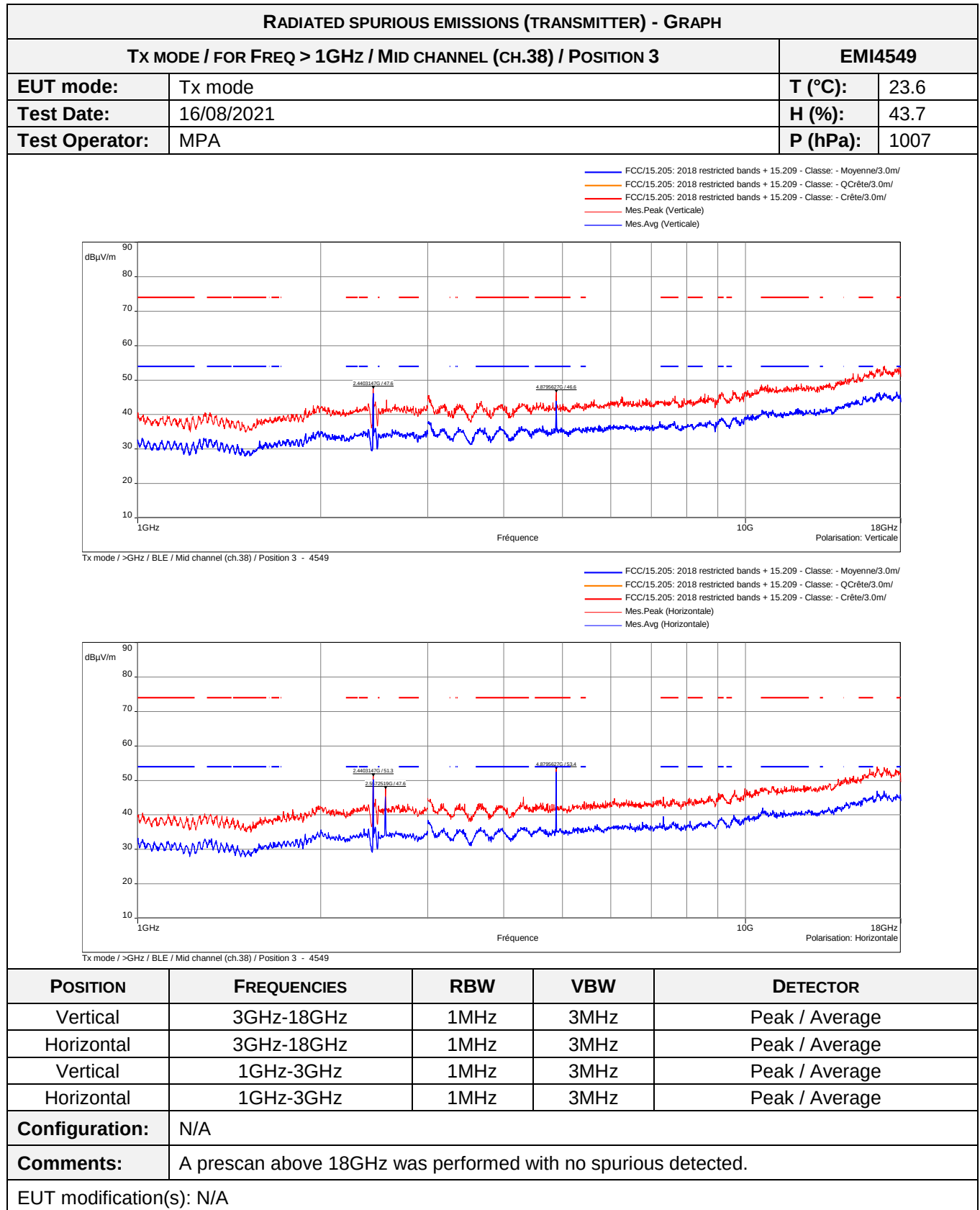


Tx mode / &gt;GHz / BLE / Mid channel (ch.38) / Position 2 - 4548



Tx mode / &gt;GHz / BLE / Mid channel (ch.38) / Position 2 - 4548

| POSITION             | FREQUENCIES                                                    | RBW  | VBW  | DETECTOR       |
|----------------------|----------------------------------------------------------------|------|------|----------------|
| Vertical             | 3GHz-18GHz                                                     | 1MHz | 3MHz | Peak / Average |
| Horizontal           | 3GHz-18GHz                                                     | 1MHz | 3MHz | Peak / Average |
| Vertical             | 1GHz-3GHz                                                      | 1MHz | 3MHz | Peak / Average |
| Horizontal           | 1GHz-3GHz                                                      | 1MHz | 3MHz | Peak / Average |
| Configuration:       | N/A                                                            |      |      |                |
| Comments:            | A prescan above 18GHz was performed with no spurious detected. |      |      |                |
| EUT modification(s): | N/A                                                            |      |      |                |

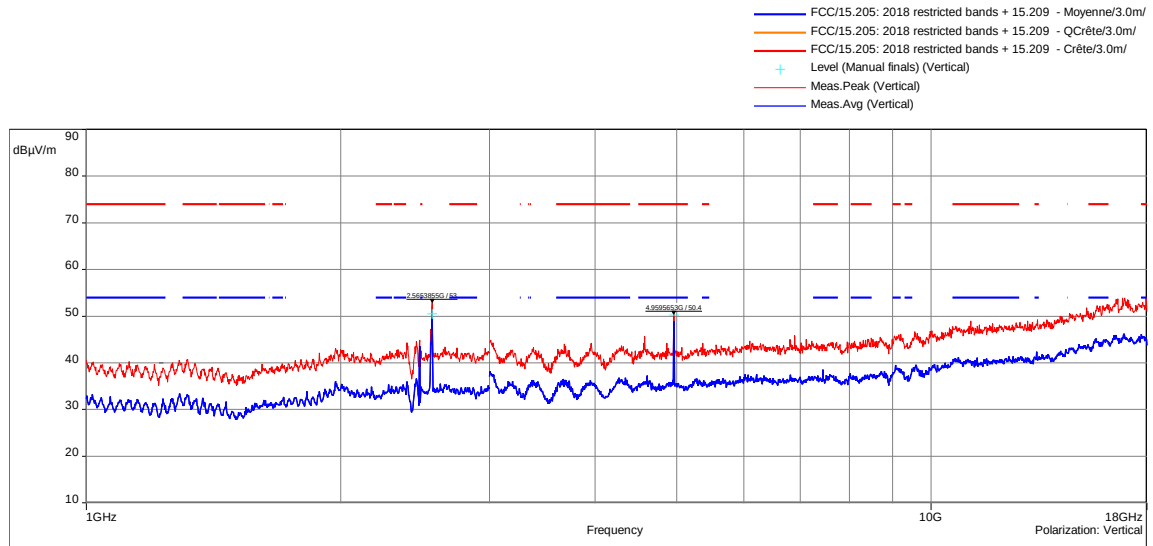


## RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

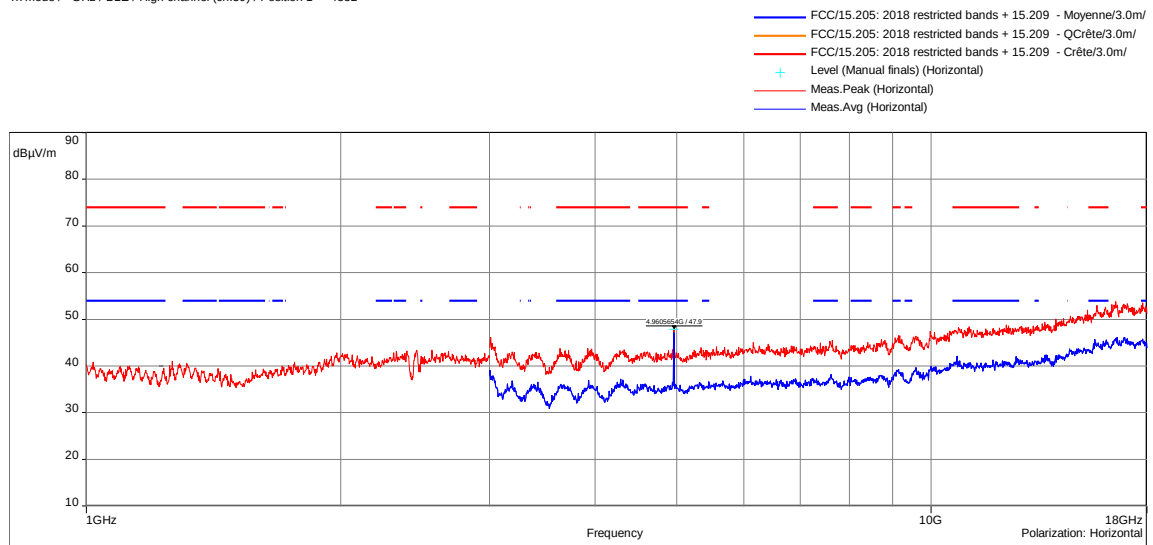
Tx mode / FOR FREQ &gt; 1GHz / HIGH CHANNEL (CH.39) / POSITION 1

EMI4552

|                |            |          |      |
|----------------|------------|----------|------|
| EUT mode:      | Tx mode    | T (°C):  | 23.6 |
| Test Date:     | 16/08/2021 | H (%):   | 43.7 |
| Test Operator: | MPA        | P (hPa): | 1007 |

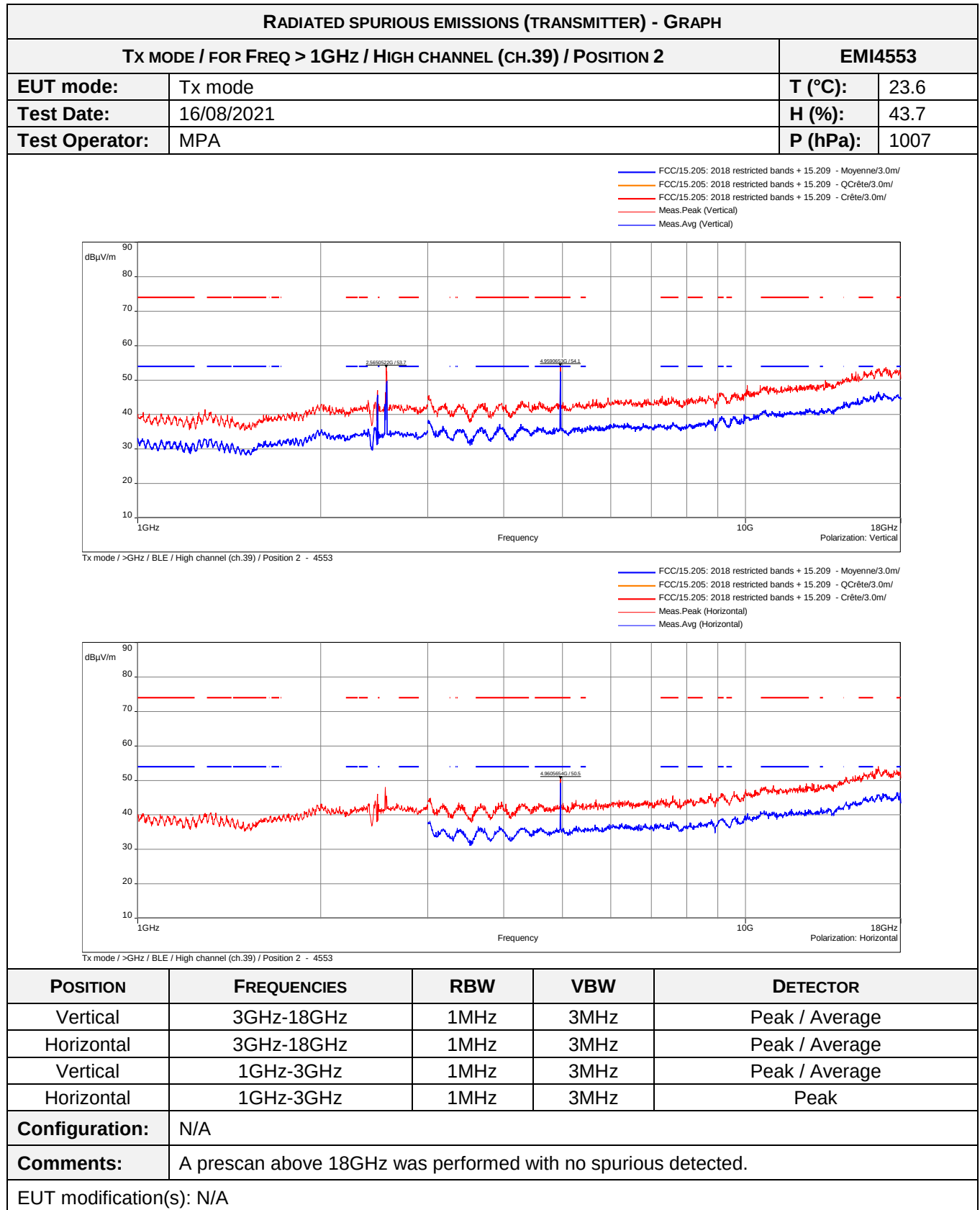


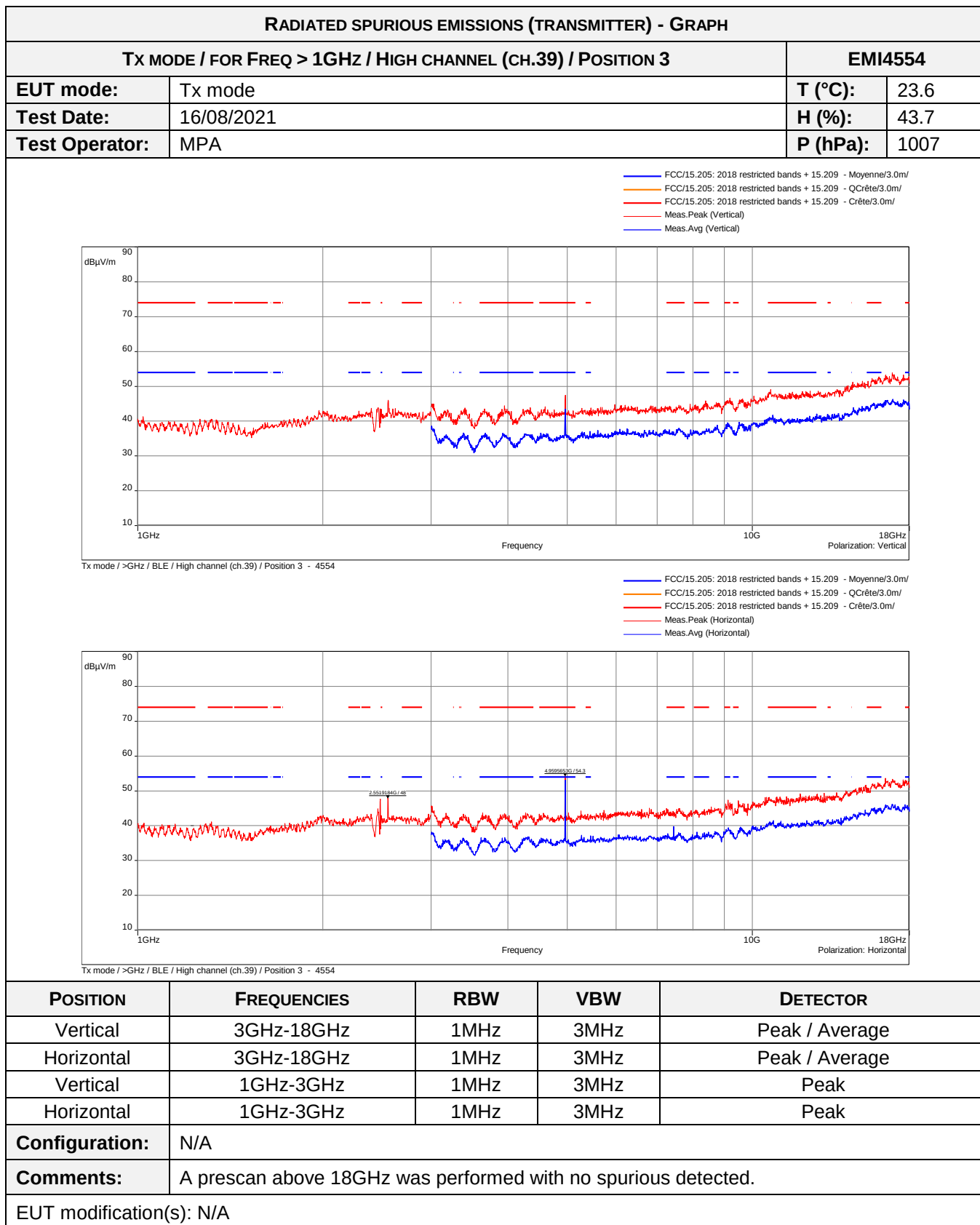
Tx mode / &gt;GHz / BLE / High channel (ch.39) / Position 1 - 4552



Tx mode / &gt;GHz / BLE / High channel (ch.39) / Position 1 - 4552

| POSITION             | FREQUENCIES                                                    | RBW  | VBW  | DETECTOR       |
|----------------------|----------------------------------------------------------------|------|------|----------------|
| Vertical             | 3GHz-18GHz                                                     | 1MHz | 3MHz | Peak / Average |
| Horizontal           | 3GHz-18GHz                                                     | 1MHz | 3MHz | Peak / Average |
| Vertical             | 1GHz-3GHz                                                      | 1MHz | 3MHz | Peak / Average |
| Horizontal           | 1GHz-3GHz                                                      | 1MHz | 3MHz | Peak           |
| Configuration:       | N/A                                                            |      |      |                |
| Comments:            | A prescan above 18GHz was performed with no spurious detected. |      |      |                |
| EUT modification(s): | N/A                                                            |      |      |                |





End of test report