





Photos were removed for confidentiality as demanded

by the customer

Test item complete and undamaged

Issue Date: 21/11/2023

TEST REPORT 47 CFR FCC Part 15 subpart C Par. 15.225 Intentional Radiators

Applicant: EVTRONIC – 34 Rue Denis Papin – 33850 – Leognan - France

Test item: RFID module

Identification / Type

No.: RFID Board TMOD

FCC ID: 2A3C7-RFID

Order content: Full testing according to the following standard(s):

Test specification: FCC Part 15, Subpart C (par. 15.225)

Date of receipt: 04/10/2023

Internal storage No.: A003574365-001

Testing period: 06/10/2023 to 09/10/2023

TÜV Rheinland Italia S.r.l.

Place of testing: Via E. Mattei, 3

20005 Pogliano Milanese

(MI) - IT

TÜV Rheinland Italia S.r.l.

Testing laboratory: Via E. Mattei,3

20005 Pogliano Milanese

(MI) - IT

Test result: Pass

Tested by: Roberto Radice & Authorized by: Andrea Bortolotti

Francesco Lombardi

Roleito Olia

Date: 21/11/2023 (Laboratory technician) Date: 21/11/2023 (Reviewer)

Position Sachverständige(r)/Expert Position Sachverständige(r)/Expert

The test results reported in this test report shall refer only to the samples tested as received. TÜV Rheinland Italia is not responsible for the sampling phase.

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TÜV Rheinland refuses any responsibility about information supplied by the customer contained in this test report

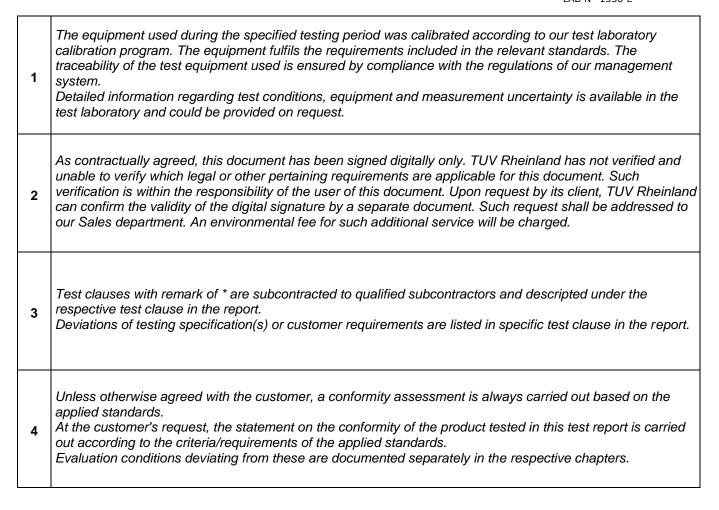
(#) Test sample(s), as well sample information, description, product details and intended usage was provided by customer.

Condition of the test item at delivery:















0. Table of Contents

| | of Contents | |
|---------------------------|----------------------------------------------|----|
| 1. Genera | al description of test item(s) | 4 |
| Test m | ethod | 5 |
| Refere | nce standards | 9 |
| 4. Equipm | nent used during test | 10 |
| 5. Input/C | Output ports | 11 |
| | type identification | |
| | ing modes | |
| Climati | ic conditions | 13 |
| Modific | cation during tests | 14 |
| | ement of the measurement uncertainty | |
| 11. Exar | mple for interpretation of measuring results | 15 |
| 12. Mea | surement uncertainty | 16 |
| 13. EUT | configuration | 16 |
| 14. Chai | nge history | 17 |
| 15. Resi | ult summary section | 18 |
| | ssion Test | |
| 17. List of | of test equipment | 53 |







| 1. General description of test item(s) | | | |
|----------------------------------------|------------------------------------------------------------------------------------------------------|--|--|
| Identification / Type No.: | RFID module BID0011 (p/n S001405AB4) | | |
| Serial number | 22317047 | | |
| Manufacturer | EVBox North America Inc. | | |
| Trade Mark | EVBox | | |
| Rated voltage / frequency | +5V dc | | |
| Rated current / power | | | |
| Equipment type | Stand alone Intentional radiator | | |
| Number of phases | N.A. | | |
| (#) Hardware version | PCB000276 V1.2.0 | | |
| Software version | Not provided by the customer | | |
| Dimensions | 110 x 50 mm. | | |
| Weight | | | |
| Other | Temperature Range: -30° to +85°C | | |
| Test sample obtaining: | ☑ Sampling by customer☐ Sampling by TÜV Rheinland Group☐ others: | | |







2. Test method

§15.225 Operation within the band 13.110 – 14.010 MHz

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.
- (e) The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of –20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.
- (f) In the case of radio frequency powered tags designed to operate with a device authorized under this section, the tag may be approved with the device or be considered as a separate device subject to its own authorization. Powered tags approved with a device under a single application shall be labeled with the same identification number as the device







§15.207 Conducted limits.

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | |
|-----------------------------|------------------------|------------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

^{*} Decreases with the logarithm of the frequency.

- (b) The shown limit in paragraph (a) of this Section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current systems containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in Section 15.205 and Section 15.209, 15.221, 15.223, 15.225 or 15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provision for, the use of battery chargers which permit operating while charging, AC adaptors or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.







§15.209 Radiated emission limits, general requirements.

(a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement Distance (meter) |
|-----------------|-----------------------------------|------------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30-88 | 100** | 3 |
| 88-216 | 150** | 3 |
| 216-960 | 200** | 3 |
| Above 960 | 500 | 3 |

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

- (b) In the emission table above, the tighter limit applies at the band edges.
- (c) The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission. For intentional radiators which operate under the provisions of other Sections within this Part and which are required to reduce their unwanted emissions to the limits specified in this table, the limits in this table are based on the frequency of the unwanted emission and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
- (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- (e) The provisions i
- n Sections 15.31, 15.33, and 15.35 for measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this Part.
- (f) In accordance with Section 15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in Section 15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in Section 15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in Section 15.109 that are applicable to the incorporated digital device.
- (g) Perimeter protection systems may operate in the 54-72 MHz and 76-88 MHz bands under the provisions of this section. The use of such perimeter protection systems is limited to industrial, business and commercial applications.







§ 15.33 Frequency range of radiated measurements.

- (a) Unless otherwise noted in the specific rule section under which the equipment operates for an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:
- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.







Reference standards

| Reference document | | | | | |
|----------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 47 CFR Part 15 | Last edition | Radio Frequency Device | | | |
| ANSI C63.4 2014 ANSI C63.10 2020 | | Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | | | |
| | | American National Standard for Testing Unlicensed Wireless Devices | | | |
| 996369 D04 Module Integration Guide | v02 October 13, 2020 | Modular transmitter integration guide; guidance for host product manufacturers. | | | |

Note: The following referenced documents are indispensable for the application of this document.

For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.







| 4 | 4. Equipment used during test | | | | | | | |
|---|-------------------------------|---------------------------|--------------|-----------------|------------------------------------------------------------|--|--|--|
| | Equip | Equipment under test | | | | | | |
| | No. | Product type | Manufacturer | Model | Comments | | | |
| | 1 | RFID module | EVBox | RFID Board TMOD | _ | | | |
| | 2 | _ | _ | _ | _ | | | |
| | Auxili | ary Equipment / Periphera | als | | | | | |
| | No. | Product type | Manufacturer | Model | Comments | | | |
| | 1 | Demo board | EVBox | _ | Board provided by applicant. Demo board supplied at 24Vdc. | | | |
| | 2 | _ | _ | _ | _ | | | |
| | 3 | _ | _ | _ | _ | | | |
| | | | | | | | | |







| 5. | Input/ | Outp | ut | ports |
|----|--------|------|----|-------|
| J. | IIIPUU | Outp | uı | טו נט |

| ı | Nr. | Name | Туре | Cable length | Cable shielded | Comments |
|---|-----|---------------------|------------------------|--------------|----------------|----------------------------|
| | 1 | Enclosure port | Open frame board | | | |
| : | 2 | AC power port | Port not present | | | |
| ; | 3 | DC power port | +5V Input power supply | <3m. | No | Positive and negative line |
| 4 | 4 | Signal/control port | I/O data | <3m. | No | |
| | 5 | Wired Network port | Port not present | | | |







| 6. Radio type identification | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Brand name and model of radio module | RFID Board TMOD |
| Antenna model and Gain | Loop antenna 4x4 cm. diameter |
| Antenna type | □ External antenna□ Dedicated antenna☑ Integral antenna |
| Type of equipment | Stand-alone equipment □ combined equipment □ multi-radio equipment |
| Type of modulation | ASK |
| Nominal voltage of stand-alone or combined equipment | +5Vdc |
| Operatig frequency | 13.56MHz |
| Number of channels | 1 |
| Transmit operating mode | ⊠ single antenna □ multiple antennas |
| Environmental equipment | ☐ Test only in normal conditions☑ Test in normal conditions and extreme conditions |
| Temperature range | -30 °C to +85 °C |







7. Operating modes

No. Description

1 Continuous modulated transmission at 13.56MHz; RFID module supplied by external board provided by applicant.

8. Climatic conditions

Ambient Temperature

10 - 40 °C

Relative Humidity

10 - 90 %

Air pressure

Not specified

According to ANSI C63.4

| | Type: 6152C (ID: 2782344; manufacturer: Davis Instruments) | Calibration due date |
|---------------------------------------|------------------------------------------------------------|----------------------|
| | Semi-Anechoic Chamber FACT 3 | 06/2024 |
| Ambient Temperature | Type: T3511 (ID: 2782075; manufacturer: Comet system) | Calibration due date |
| Humidity Sensor | Semi-Anechoic Chamber SAC 5 | 06/2024 |
| (used to control climatic conditions) | Type: T3511 (ID: 2782070; manufacturer: Comet system) | Calibration due date |
| | Transitory phenomena area | 06/2024 |
| | Type: T3511 (ID: 2781962; manufacturer: Comet system) | Calibration due date |
| | ESD room | 06/2024 |
| Barometer | Type P3267S07801 + E1999X | Calibration due date |
| (used to control climatic conditions) | (ID: 2782560; manufacturer: Tecsis) | 03/2025 |







| 9. | Modification during tests | | | |
|----------------------------|-------------------------------------------------------|----------------------|--|--|
| | | | | |
| | No modifications done during testing | | | |
| | Modifications done during testing (see details below) | | | |
| No. | Description of modification | Date of modification | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| Supplementary information: | | | | |







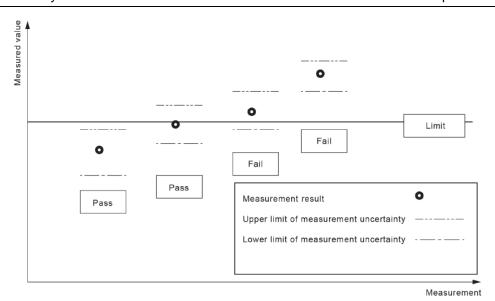
10. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the quality system acc. to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

The manufacturer has the sole responsibility of continued compliance of the device.

11. Example for interpretation of measuring results

The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance to and ILAC-G8:09/2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report."



Decision Rule

Statements of conformity (PASS or FAIL) to specifications are made in this report without taking measurement uncertainty into account.

Where statements of conformity are made in this report, the following decision rules are applied:

Test result complies with test specification.

Test result does not comply with test specification.

Requirement not applicable

Requirement not tested

P = passed

F = failed

N/A = not applicable

Issue Date: 21/11/2023

N/T = not tested







12. Measurement uncertainty

| Test Method | Uncertainty (95%) | Coverage factor k |
|------------------------------------------------------------|--------------------------|-------------------|
| RF Conducted continuous emissions - range (9 kHz – 30 MHz) | 3.3 dB | 2.0 |
| RF Radiated emissions – range (30 – 1000) MHz | 4.9 dB | 2.0 |
| Occupied Bandwidth | 514.4 x 10 ⁻⁹ | 2.0 |
| Measurement of Normalised Site Attenuation and VSWR | 6.0 dB | 2.0 |

13. EUT configuration

The test setup was made in accordance with mentioned FF standards.

Measurements and tests were executed under "worst case" conditions. Typical EUT arrangements or operating modes were chosen or assumed which let suspect maximum emission or susceptibility (a so called "unfavourable configuration").

Details of test setup or adjustments are (particularly) shown inside the photo documentation. As far as not mentioned otherwise these statements are valid for all following tests.







REVISION HISTORY

| 14. Change history | | |
|--------------------|-------------------|------------|
| Test report number | List of revisions | Date |
| IT23WS91 001 | First edition | 21/11/2023 |
| | | |







ADDITIONAL DOCUMENTATION

15. Result summary section

| Clause | Requirement – Test case | Result |
|----------------------------------|--------------------------------------------------------------------|--------|
| § 15.203 | Antenna Requirements | Р |
| § 15.207 (a) | Conducted emission test | Р |
| § 15.215 (a) (b) (c) | Additional provisions to the general radiated emission limitations | Р |
| § 15.215 (c) | 20 dB Bandwidth | Р |
| § 15.225 (a) | Field strength in band 13,553-13,567MHz | Р |
| § 15.225 (b) | Field strength in band 13,410-13,553 MHz and 13,567-13,710 MHz | Р |
| § 15.225 (c) | Field strength in band 13,110-13,410 MHz and 13,710-14,010 MHz | Р |
| § 15.225 (d) § 15.209 (a) (f) | Field strength outside of the 13,110-14,010 MHz band | Р |
| § 15.225 (e) | Frequency tolerance of the carrier signal | Р |
| § 15.225 (f) | Radio frequency powered tags | N/A¹ |







ADDITIONAL DOCUMENTATION

16. Emission Test

| Antenna requirement | |
|----------------------|-----------------|
| Test date | 06/10/2023 |
| Applied Standard | FCC part 15 C |
| Paragraph | §15.203 |
| Temperature | 21.5° C |
| Humidity | 46% |
| Tested by | Roberto Radice |
| Model | RFID Board TMOD |
| Internal Storage No. | A003574365-001 |
| Remarks | None |







ADDITIONAL DOCUMENTATION

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

| | Antenna specifications | |
|--------------------------------|----------------------------------|--|
| N° of authorized antenna types | 1 | |
| Antenna type | PCB loop antenna 4x4cm. diameter | |
| Maximum total gain | < 6dBi | |
| External power amplifiers | Not present | |







| Conducted emission test | | | |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Test date | 06/10/2023 | | |
| Applied Standard | FCC part 15 C | | |
| Paragraph | §15.207 | | |
| Test method | § 7 of ANSI C63-4 | | |
| Temperature | 20.5° C | | |
| Humidity | 42% | | |
| Voltage/Frequency used during the test | 110Vac / 60Hz (see remarks below) | | |
| Tested by | Francesco Lombardi | | |
| Model | RFID Board TMOD | | |
| Internal Storage No. | A003574365-001 | | |
| Operating mode | 1 | | |
| Tested terminals | AC Mains input | | |
| Remarks | Test executed on AC Mains of AC/DC power supply Model FSP100-RTAAN2 (Input 100-240V 50-60Hz / Output 24V) not provided by applicant. RFID Loop Antenna replaced by 50ohm load. Power supply 110Vac | | |







ADDITIONAL DOCUMENTATION

Test parameter of

EMI Auto Test Template: Emi cond lisn ENV 216 150k-30MHz

Hardware Setup: Emissione condotta LISN ENV216

Measurement Type: 2 Line LISN
Frequency Range: 150 kHz - 30 MHz
Graphics Level Range: 0 dBµV - 90 dBµV

Preview Measurements:

LISN Lines: L1 + N

Scan Test Template: Emissione condotta Lisn ENV 216

Final Measurements:

Template for Single Meas.: Emissione condotta Lisn ENV 216 - fin QP

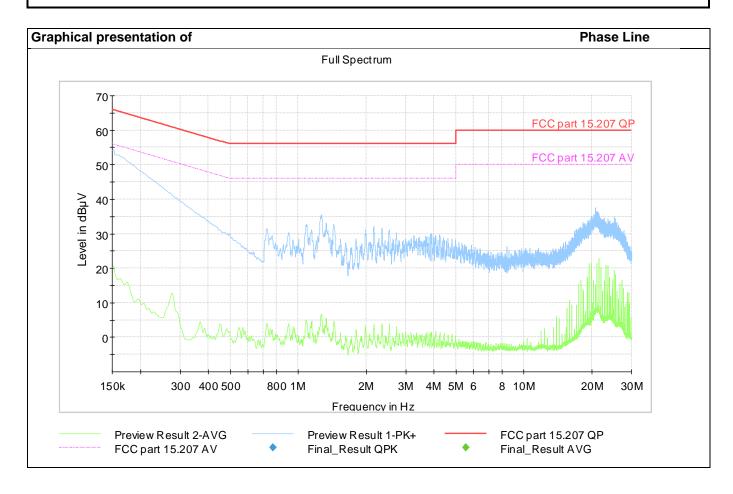
SubrangeStep SizeDetectorsIF BWMeas. TimePreampReceiver: [ESW 44]150 kHz - 30 MHz2.25 kHzQPK; AVG9 kHz1 s0 dB







ADDITIONAL DOCUMENTATION



Measurement data of ---

Remarks:

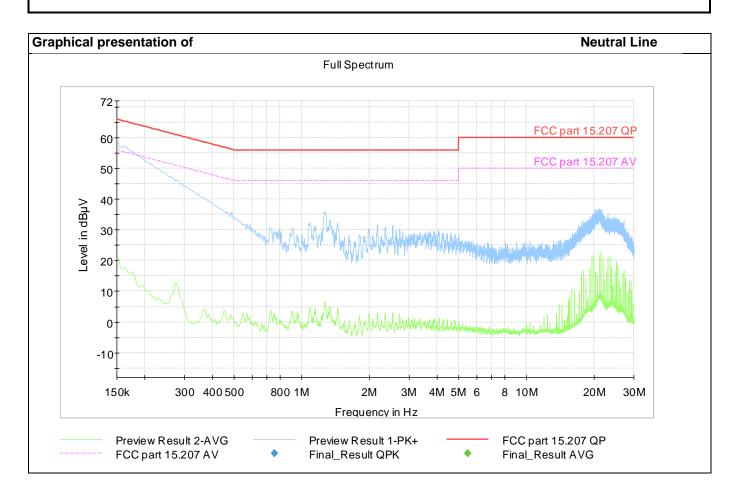
Margin value = Measurement value - Limit value







ADDITIONAL DOCUMENTATION





Remarks:

Margin value = Measurement value - Limit value







| Radiated emission test - Field strength outside of the 1 | 3,110-14,010 MHz band |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test date | 06/10/2023 |
| Applied Standard | FCC part 15 C |
| Paragraph | §15.205; §15.209; §15.225 |
| Test method | § 8 of ANSI C63-4 |
| Temperature | 21.5° C |
| Humidity | 46% |
| Voltage/Frequency used during the test | +5V dc (from auxilary board) |
| Tested by | Roberto Radice |
| Model | RFID Board TMOD |
| Internal Storage No. | A003574365-001 |
| Operating mode | 1 |
| Tested terminals | Enclosure |
| Further information to test setup | For frequencies above 1GHz, the anechoic material is also placed on the metallic floor between EUT and Antenna |
| Remarks | In accordance with part 15.31 (f) (2), where the measurement distance was specified to be 30 or 300 meters, a correction factor was applied in order to permit measurement to be performed at a separation distance. The applied formula for limits at 3 meter is:Extrapolation (dB) = 40log (300meter / 3meter) = +80db Extrapolation (dB) = 40log (30meter / 3meter) = +40db |







ADDITIONAL DOCUMENTATION

RANGE 9kHz-30MHz

Test parameter of

EMI Auto Test Template: Emi rad 9kHz-30MHz HFH2-Z2E Electric Field 3metri

Hardware Setup: Emissione irradiata 9kHz-30MHz HFH2-Z2E Electric Field 3metri

Measurement Type: Open-Area-Test-Site (SAC/FAR)

Frequency Range: 9 kHz - 30 MHz

Graphics Level Range: 0 dBµV/m - 110 dBµV/m

Preview Measurements:

Antenna height: 100 - 400 cm, Step Size = 100 cm, Positioning Speed = 2

Polarization:

Turntable position: 0 - 315 deg , Step Size = 45 deg , Positioning Speed = 3

Scan Test Template: Emissione irradiata 9kHz-30MHz HFH2-Z2E Electric Field 3metri

Adjustment:

Antenna height: Range = 25 cm, Measuring Speed = 3 Turntable position: Range = 45 deg, Measuring Speed = 2

Template for Single Meas.: Emissione irradiata 9kHz-30MHz HFH2-Z2E Electric Field 3metri

Final Measurements:

Template for Single Meas.: Emissione irradiata 9kHz-30MHz HFH2-Z2E Electric Field 3metri - fin

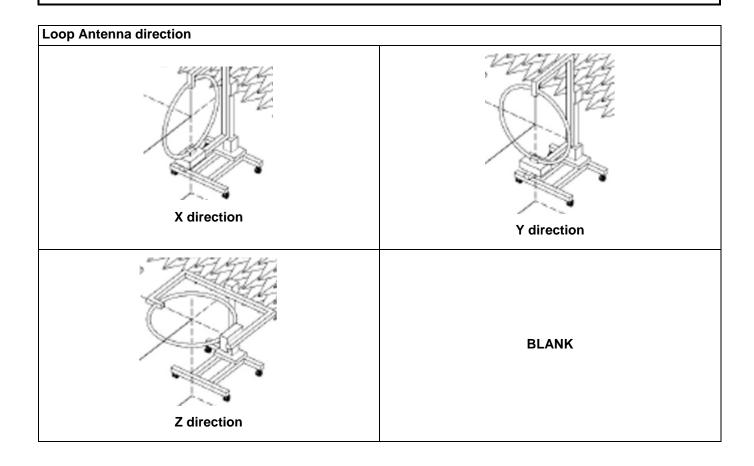
QΡ

| Subrange | Step Size | Detectors | IF BW | Meas. Time | Preamp |
|--------------------|-----------|------------------|--------|------------|--------|
| Receiver: [ESW 44] | | | | | |
| 9 kHz - 150 kHz | 50 Hz | QPK | 200 Hz | 15 s | 0 dB |
| 150 kHz - 30 MHz | 2.25 kHz | QPK | 9 kHz | 15 s | 0 dB |





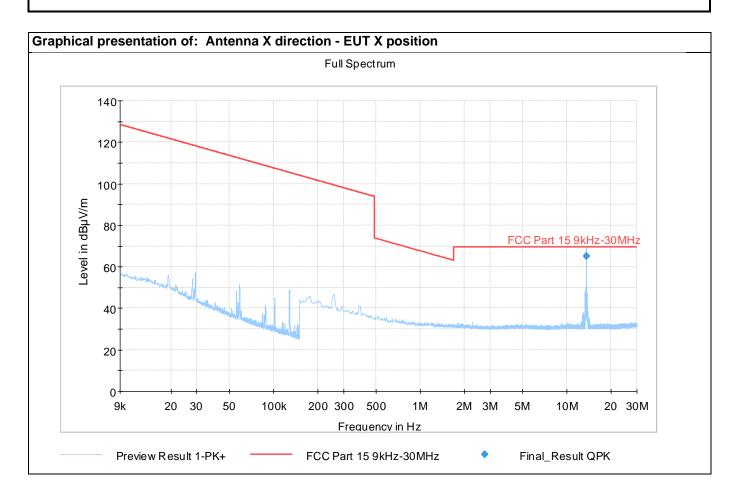










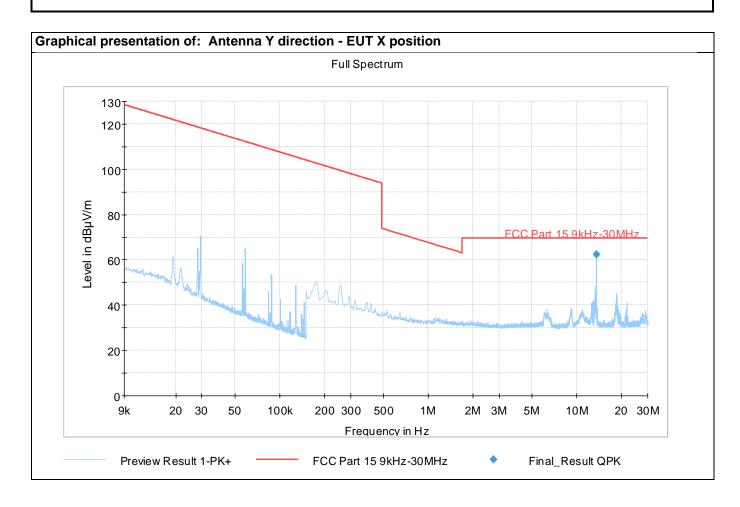


| Frequency (MHz) | QuasiPeak (dBµV/m) @3mt | QuasiPeak (dBµV/m) @30mt | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|----------------------------|-----------------------------|----------------|-----|---------------|-----------------|
| 13.560000 | 65.09 | 25.09 | 100.0 | V | 1.0 | 21.3 |







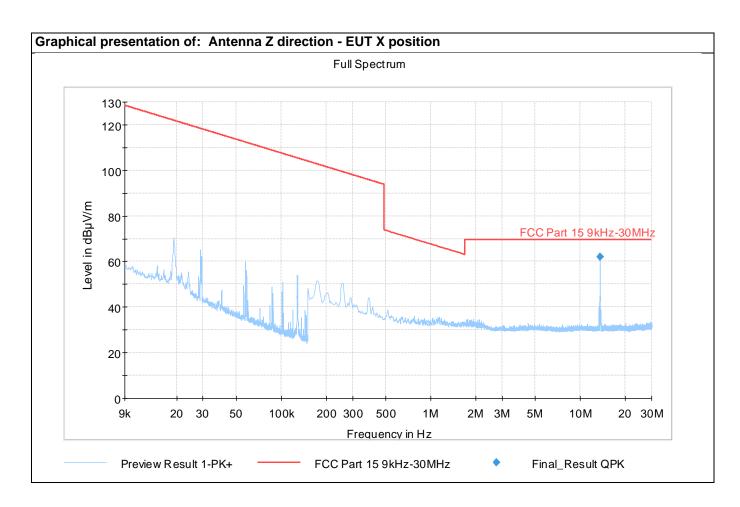


| Frequency | QuasiPeak | QuasiPeak | Height | Pol | Azimuth | Corr. |
|-----------|---------------|----------------|--------|-----|---------|--------|
| (MHz) | (dBµV/m) @3mt | (dBµV/m) @30mt | (cm) | | (deg) | (dB/m) |
| 13.560000 | 62.48 | 22.48 | 188.0 | ٧ | 68.0 | 21.3 |







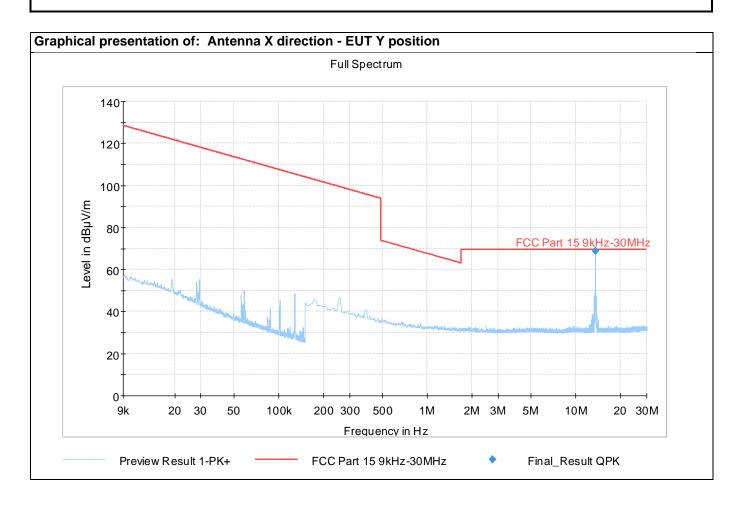


| Frequency (MHz) | QuasiPeak (dBµV/m) @3mt | QuasiPeak (dBµV/m) @30mt | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|----------------------------|-----------------------------|----------------|-----|------------------|-----------------|
| 13.560000 | 61.94 | 21.94 | 132.0 | V | -7.0 | 21.3 |







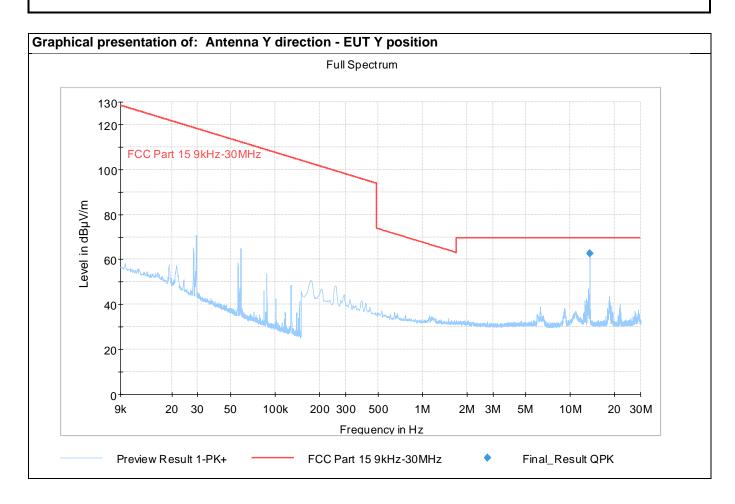


| Frequency (MHz) | QuasiPeak (dBµV/m) @3mt | QuasiPeak (dBµV/m) @30mt | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|----------------------------|-----------------------------|----------------|-----|---------------|-----------------|
| 13.560000 | 68.71 | 28.71 | 100.0 | ٧ | 0.0 | 21.3 |







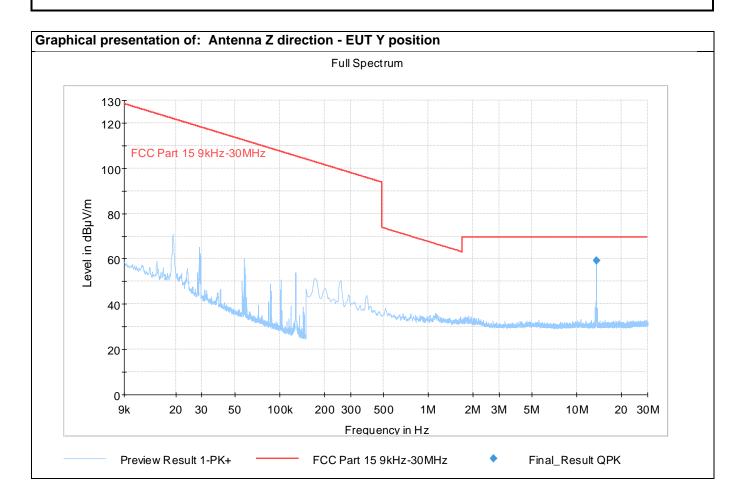


| easurement | | | | | | |
|--------------------|----------------------------|-----------------------------|-------------|-----|---------------|-----------------|
| Frequency (MHz) | QuasiPeak (dBµV/m) @3mt | QuasiPeak (dBµV/m) @30mt | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
| 13.560000 | 62.68 | 22.68 | 188.0 | ٧ | 68.0 | 21.3 |







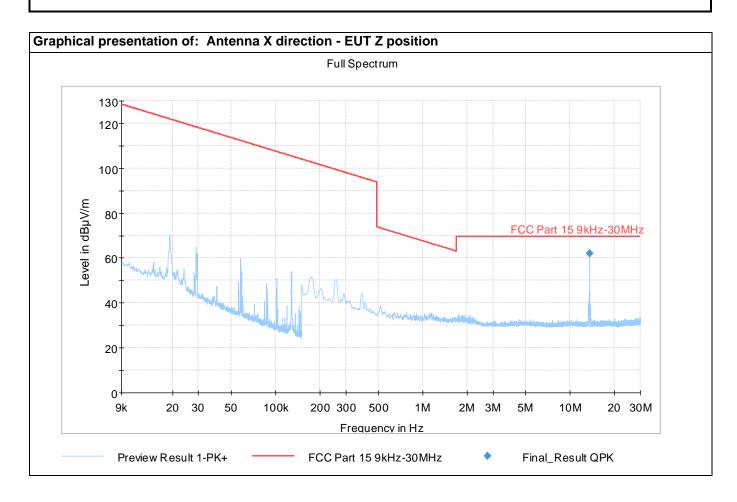


| Frequency (MHz) | QuasiPeak (dBµV/m) @3mt | QuasiPeak (dBµV/m) @30mt | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|----------------------------|-----------------------------|----------------|-----|---------------|-----------------|
| 13.560000 | 59.33 | 19.33 | 128.0 | ٧ | 168.0 | 21.3 |







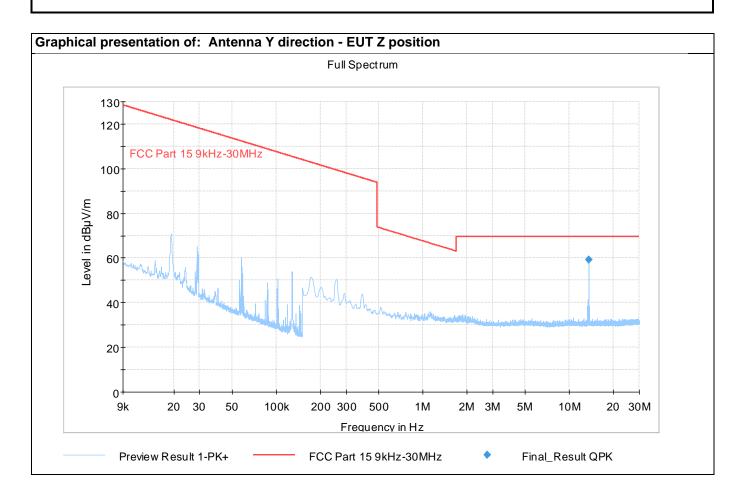


| Frequency (MHz) | QuasiPeak (dBµV/m) @3mt | QuasiPeak (dBµV/m) @30mt | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|----------------------------|-----------------------------|-------------|-----|---------------|-----------------|
| 13.560000 | 61.94 | 21.94 | 132.0 | V | -7.0 | 21.3 |







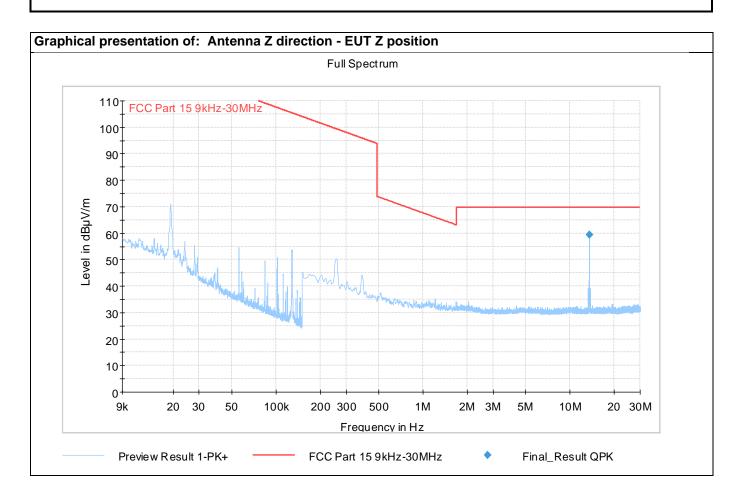


| Frequency (MHz) | QuasiPeak (dBµV/m) @3mt | QuasiPeak (dBµV/m) @30mt | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|----------------------------|-----------------------------|----------------|-----|---------------|-----------------|
| 13.560000 | 59.33 | 19.33 | 128.0 | ٧ | 168.0 | 21.3 |









| Frequency (MHz) | QuasiPeak (dBµV/m) @3mt | QuasiPeak (dBµV/m) @30mt | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|----------------------------|-----------------------------|----------------|-----|---------------|-----------------|
| 13.560000 | 59.40 | 19.40 | 132.0 | ٧ | -7.0 | 21.3 |







ADDITIONAL DOCUMENTATION

RANGE 30-1000 MHz

Test parameter of

EMI Auto Test Template: Emi rad 30-1000MHz HL562E 3metri

Hardware Setup: Emissione irradiata 30-1000MHz HL562E 3metri

Measurement Type: Open-Area-Test-Site (SAC/FAR)

Frequency Range: 30 MHz - 1 GHz

Graphics Level Range: 0 dBμV/m - 80 dBμV/m

Preview Measurements:

Antenna height: 100 - 400 cm, Step Size = 100 cm, Positioning Speed = 4

Polarization: H + V

Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 5

Scan Test Template: Emissione irradiata 30-1000MHz HL562E 3metri

Adjustment:

Antenna height: Range = 25 cm, Measuring Speed = 3 Turntable position: Range = 30 deg, Measuring Speed = 3

Template for Single Meas.: Emissione irradiata 30-1000MHz HL562E 3metri - fin QP

Final Measurements:

Template for Single Meas.: Emissione irradiata 30-1000MHz HL562E 3metri - fin QP

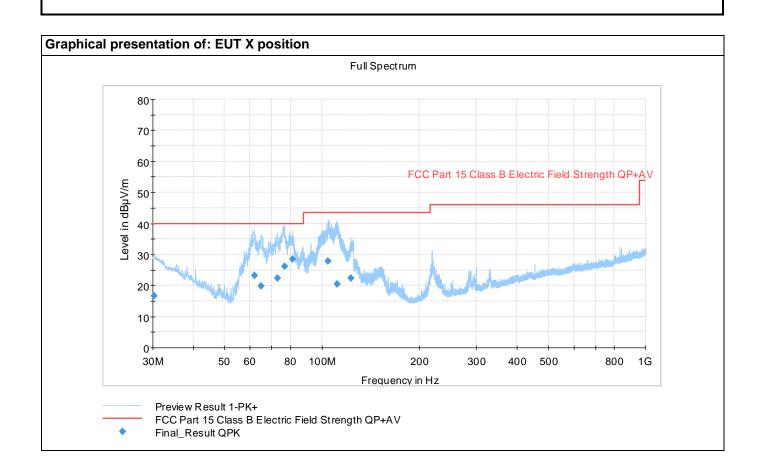
SubrangeStep SizeDetectorsIF BWMeas. TimePreampReceiver: [ESW 44]30 MHz - 1 GHz30 kHzQPK120 kHz1 s20 dB







ADDITIONAL DOCUMENTATION



Final Result Frequency QuasiPeak Limit Margin Meas. Time Bandwidth Height Pol Azimuth Corr. (MHz) (dBµV/m) (dBµV/m) (dB) (ms) (kHz) (cm) (deg) (dB/m) 30.240000 16.78 23.22 1000.0 120.000 100.0 105.0 40.00 22.6 61.920000 23.28 40.00 16.72 1000.0 120.000 103.0 ٧ 185.0 9.7 20.07 120.000 106.0 ٧ 193.0 64.710000 19.93 40.00 1000.0 10.5 ٧ 72.960000 22.36 40.00 17.64 1000.0 120.000 104.0 193.0 12.4 76.530000 26.14 40.00 13.86 1000.0 120.000 100.0 ٧ 165.0 12.8 120.000 81.210000 28.45 40.00 11.55 1000.0 103.0 ٧ 103.0 13.3 104.220000 27.82 43.50 15.68 1000.0 120.000 103.0 ٧ 14.0 103.0

1000.0

1000.0

120.000

120.000

100.0

107.0

٧

258.0

78.0

14.4

14.7

Remarks:

Measurement data of

111.510000

123.090000

Margin value = Measurement value - Limit value

20.52

22.47

43.50

43.50

22.98

21.03

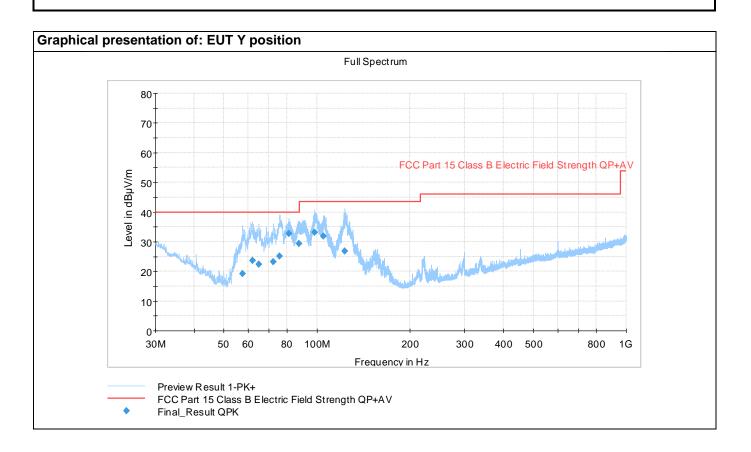
| TEST REPORT N. IT23WS91 001 | Page 38 of 55 | Issue Date: 21/11/2023 |
|-----------------------------|---------------|------------------------|
| | | |







ADDITIONAL DOCUMENTATION



Measurement data of

Final_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|-----------------------|-------------------|----------------|--------------------|--------------------|----------------|-----|---------------|-----------------|
| 57.480000 | 19.19 | 40.00 | 20.81 | 1000.0 | 120.000 | 291.0 | V | 255.0 | 8.4 |
| 61.950000 | 23.72 | 40.00 | 16.28 | 1000.0 | 120.000 | 103.0 | ٧ | 105.0 | 9.8 |
| 64.920000 | 22.30 | 40.00 | 17.70 | 1000.0 | 120.000 | 105.0 | ٧ | 78.0 | 10.6 |
| 72.090000 | 23.13 | 40.00 | 16.87 | 1000.0 | 120.000 | 103.0 | ٧ | 75.0 | 12.2 |
| 75.780000 | 25.01 | 40.00 | 14.99 | 1000.0 | 120.000 | 106.0 | V | 75.0 | 12.7 |
| 81.240000 | 32.66 | 40.00 | 7.34 | 1000.0 | 120.000 | 103.0 | V | 285.0 | 13.3 |
| 87.210000 | 29.34 | 40.00 | 10.66 | 1000.0 | 120.000 | 103.0 | ٧ | 255.0 | 13.6 |
| 98.400000 | 33.08 | 43.50 | 10.42 | 1000.0 | 120.000 | 100.0 | V | -15.0 | 13.9 |
| 105.060000 | 31.88 | 43.50 | 11.62 | 1000.0 | 120.000 | 100.0 | ٧ | 193.0 | 14.0 |
| 123.120000 | 26.86 | 43.50 | 16.64 | 1000.0 | 120.000 | 103.0 | V | 15.0 | 14.7 |

Remarks:

Margin value = Measurement value - Limit value

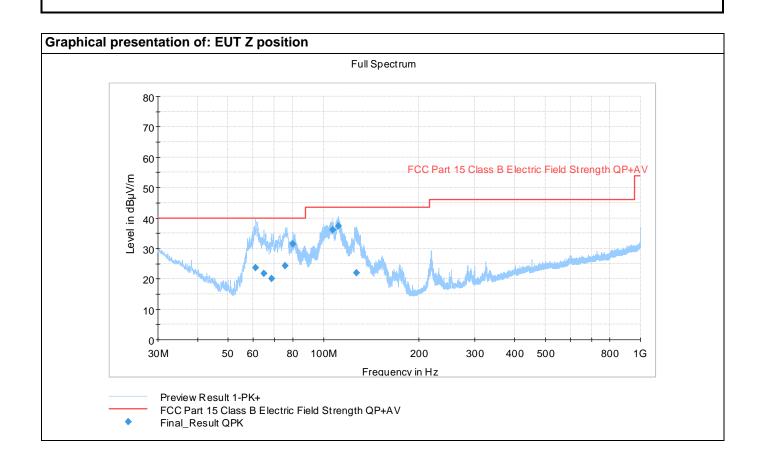
| TEST REPORT N. IT23WS91 001 | Page 39 of 55 | Issue Date: 21/11/2023 |
|-----------------------------|---------------|------------------------|
| | | |







ADDITIONAL DOCUMENTATION



Measurement data of

Final Result

| i iiiai_i\c3ai | ı C | | | | | | | | |
|--------------------|-----------------------|-------------------|----------------|--------------------|--------------------|-------------|-----|---------------|-----------------|
| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
| 61.080000 | 23.54 | 40.00 | 16.46 | 1000.0 | 120.000 | 188.0 | ٧ | 266.0 | 9.5 |
| 64.920000 | 21.65 | 40.00 | 18.35 | 1000.0 | 120.000 | 191.0 | ٧ | 285.0 | 10.6 |
| 68.520000 | 20.00 | 40.00 | 20.00 | 1000.0 | 120.000 | 188.0 | ٧ | 275.0 | 11.5 |
| 75.750000 | 24.23 | 40.00 | 15.77 | 1000.0 | 120.000 | 188.0 | V | 258.0 | 12.7 |
| 80.040000 | 31.35 | 40.00 | 8.65 | 1000.0 | 120.000 | 100.0 | V | 75.0 | 13.2 |
| 106.710000 | 36.02 | 43.50 | 7.48 | 1000.0 | 120.000 | 100.0 | V | 193.0 | 14.1 |
| 111.480000 | 37.36 | 43.50 | 6.14 | 1000.0 | 120.000 | 100.0 | V | 285.0 | 14.4 |
| 126.780000 | 21.99 | 43.50 | 21.51 | 1000.0 | 120.000 | 100.0 | V | 13.0 | 14.1 |

Remarks:

Margin value = Measurement value - Limit value







ADDITIONAL DOCUMENTATION

| Radiated emission test - Field strength inside of the 13,110-14,010 MHz band | | | | | |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Test date | 06/10/2023 | | | | |
| Applied Standard | FCC part 15 C | | | | |
| Paragraph | §15.225(a); §15.225(b); §15.225(c) | | | | |
| Temperature | 21.5° C | | | | |
| Humidity | 46% | | | | |
| Voltage/Frequency used during the test | +5V dc (from auxilary board) | | | | |
| Tested by | Roberto Radice | | | | |
| Model | RFID Board TMOD | | | | |
| Internal Storage No. | A003574365-001 | | | | |
| Operating mode | 1 | | | | |
| Tested terminals | Enclosure | | | | |
| Remarks | In accordance with part 15.31 (f) (2), where the measurement distance was specified to be 30 or 300 meters, a correction factor was applied in order to permit measurement to be performed at a separation distance. The applied formula for limits at 3 meter is:Extrapolation (dB) = 40log (300meter / 3meter) = +80db Extrapolation (dB) = 40log (30meter / 3meter) = +40db | | | | |







ADDITIONAL DOCUMENTATION

Extrapolation from the measurement of a single point

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$.

This shall be accomplished using Equation (A):

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{near field}}}{d_{\text{measure}}} \right) - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{near field}}} \right)$$

where

FSlimit is the calculation of field strength at the limit distance, expressed in dBµV/m

FSmax is the measured field strength, expressed in dBµV/m

dnear field is the $\lambda/2\pi$ distance

dmeasure is the distance of the measurement point from the EUT

dlimit is the reference limit distance

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (B):

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (C):

$$FS_{\text{limit}} = FS_{\text{max}} - 40\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

where

FSlimit is the calculation of field strength at the limit distance, expressed in dBµV/m

FSmax is the measured field strength, expressed in dBµV/m

dnear field is the $\lambda/2\pi$ distance

dmeasure is the distance of the measurement point from the EUT

dlimit is the reference distance or the distance of the $\lambda/2\pi$ point







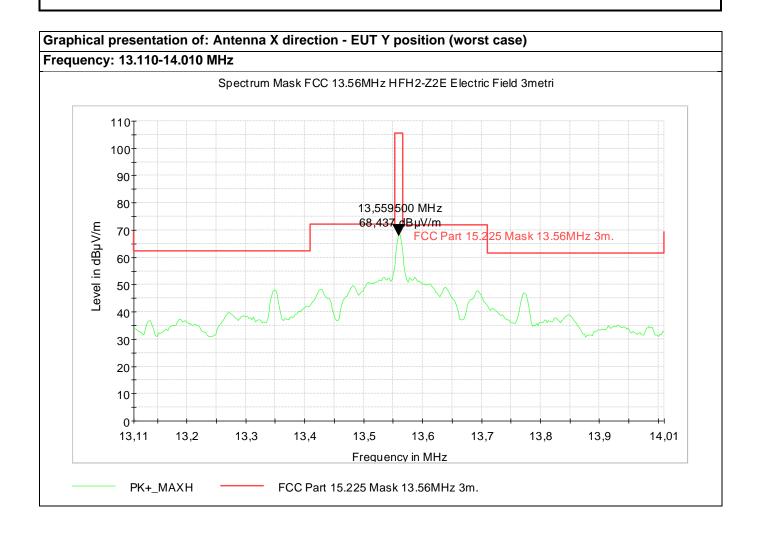
ADDITIONAL DOCUMENTATION

| | New limit (according to equation A) | | | | | | |
|------------|-------------------------------------|----------------------|----------------------|-------------------|-----------------|----------------------|--|
| f (MHz) | Fs limit (uV/m) | Fs limit (dBuV/m) | d(near field) (m) | d(measure) (m) | d(limit) (m) | FS (max) (dBuV/m) | |
| 13,11 | 106 | 40,51 | 3,64 | 3 | 30 | 62,2 | |
| 13,41 | 334 | 50,47 | 3,56 | 3 | 30 | 72,0 | |
| 13,41 | 334 | 50,47 | 3,56 | 3 | 30 | 72,0 | |
| 13,553 | 15848 | 84,00 | 3,52 | 3 | 30 | 105,4 | |
| 13,567 | 15848 | 84,00 | 3,52 | 3 | 30 | 105,4 | |
| 13,71 | 334 | 50,47 | 3,48 | 3 | 30 | 71,8 | |
| 13,71 | 334 | 50,47 | 3,48 | 3 | 30 | 71,8 | |
| 14,01 | 106 | 40,51 | 3,41 | 3 | 30 | 61,6 | |





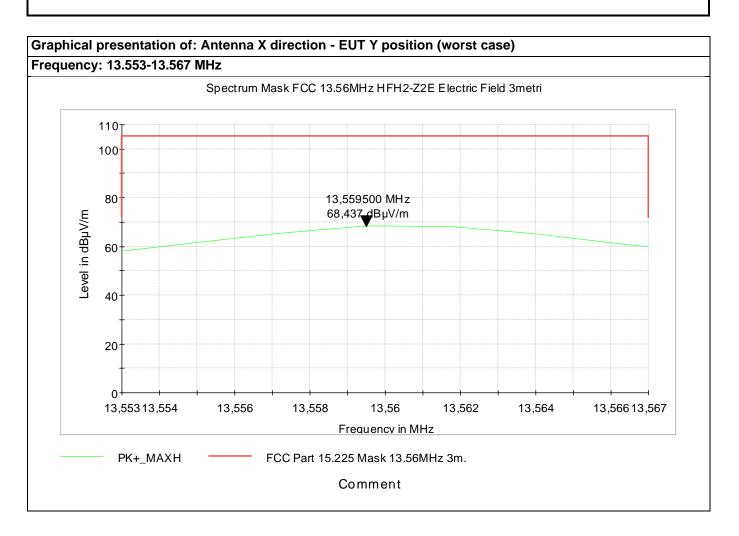












| Measurement data of | | | | | | |
|--------------------------------------------------|-------------------------------|--------------------------------|--|--|--|--|
| Frequency (MHz) | PositivePeak (dBµV/m) @3mt | PositivePeak (dΒμV/m) @30mt | | | | |
| 13.560000 | 68.44 | 28.44 | | | | |
| Note: fundamental frequency not related to limit | | | | | | |







ADDITIONAL DOCUMENTATION

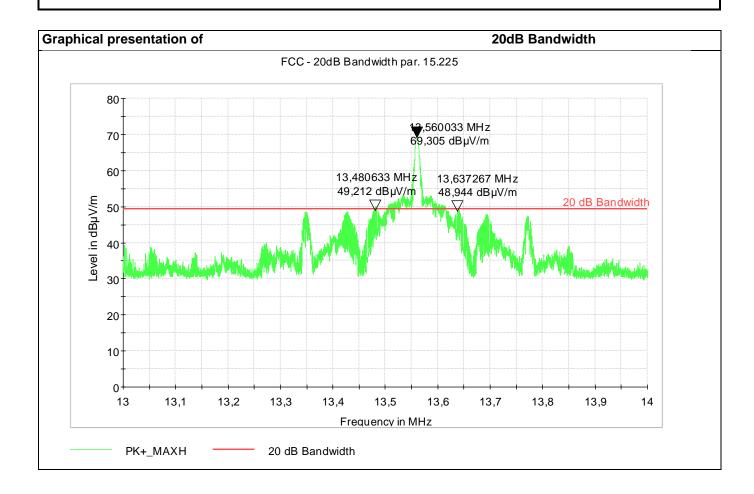
| 20dB Bandwidth | | | | |
|----------------------------------------|------------------------------|--|--|--|
| Test date | 06/10/2023 | | | |
| Applied Standard | FCC part 15 C | | | |
| Paragraph | §15.215(c) | | | |
| Temperature | 21.5° C | | | |
| Humidity | 46% | | | |
| Voltage/Frequency used during the test | +5V dc (from auxilary board) | | | |
| Tested by | Roberto Radice | | | |
| Model | RFID Board TMOD | | | |
| Internal Storage No. | A003574365-001 | | | |
| Operating mode | 1 | | | |
| Tested terminals | Enclosure | | | |
| Remarks | None | | | |

Note: Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.









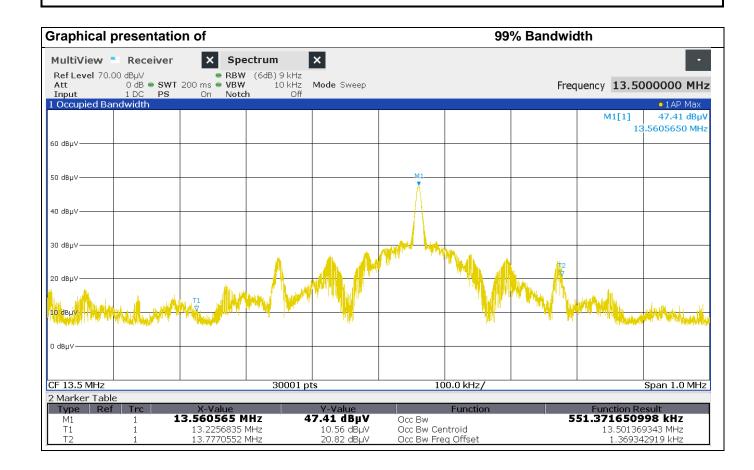
| Channel | Frequency | Channel Bandwidth at -20dB | Plot (No.) |
|---------|-----------|----------------------------|------------|
| (No.) | (MHz) | (kHz) | |
| 1 | 13.560033 | 156.634 | 1 |

| Bandwidth at -20dB (Fmin and Fmax) | | | | | |
|--------------------------------------|--|--|--|--|--|
| Fmin 13.480633 MHz Fmax 13.637267 MH | | | | | |









| Channel (No.) | Frequency (MHz) | Channel Bandwidth at 99% (kHz) | Plot (No.) |
|------------------|--------------------|--------------------------------|------------|
| 1 | 13.560565 | 551.371 | 1 |

| Bandwidth at 99% (Fmin and Fmax) | | | | | |
|----------------------------------|------|---------------|------|---------------|--|
| | Fmin | 13.225683 MHz | Fmax | 13.777055 MHz | |







ADDITIONAL DOCUMENTATION

| Frequency tolerance of the carrier signal | | |
|-------------------------------------------|--------------------|--|
| Test date | 09/10/2023 | |
| Applied Standard | FCC part 15 C | |
| Paragraph | §15.225(e) | |
| Temperature | 20.5° C | |
| Humidity | 40% | |
| Tested by | Francesco Lombardi | |
| Model | RFID Board TMOD | |
| Internal Storage No. | A003574365-001 | |
| Operating mode | 1 | |
| Tested terminals | Enclosure | |
| Remarks | None | |

Note: the frequency tolerance of the carrier signal shall be maintained within +0.01% of the operating frequency over a temperature variation of -20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.







ADDITIONAL DOCUMENTATION

Frequency stability

| Temperature (°C) | Voltage (Vdc) | Measured Frequency (MHz) | Frequency Delta (ppm) |
|---------------------|------------------|-----------------------------|--------------------------|
| 25 | 5 | 13.559358 | 0 |
| 25 | 4.25 | 13.559358 | 0 |
| 25 | 5.75 | 13.559358 | 0 |

| Temperature (°C) | Voltage (Vdc) | Measured Frequency (MHz) | Frequency Delta (ppm) |
|---------------------|------------------|-----------------------------|--------------------------|
| -20 | 5 | 13.559358 | 0 |
| -10 | 5 | 13.559358 | 0 |
| 0 | 5 | 13.559358 | 0 |
| +10 | 5 | 13.559358 | 0 |
| +20 | 5 | 13.559358 | 0 |
| +30 | 5 | 13.559358 | 0 |
| +40 | 5 | 13.559358 | 0 |
| +50 | 5 | 13.559358 | 0 |







| Additional provisions to the general radiated emission limitations. | | |
|---------------------------------------------------------------------|---------------------|--|
| Test date | 06/10/2023 | |
| Applied Standard | FCC part 15 C | |
| Paragraph | §15.215 (a) (b) (c) | |
| Temperature | 21.5° C | |
| Humidity | 46% | |
| Tested by | Roberto Radice | |
| Model | RFID Board TMOD | |
| Internal Storage No. | A003574365-001 | |
| Operating mode | 1 | |
| Tested terminals | Enclosure | |
| Remarks | None | |







ADDITIONAL DOCUMENTATION

| (A) The regulations in §§ 15.217-15.257 provide alternatives to the general radiated emission limits for intentional radiators operating in specified frequency bands. Unless | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| otherwise stated, there are no restrictions as to the types of operation permitted under these sections. | |
| (B) In most cases, unwanted emissions outside of the frequency bands shown in these | VERDICT |
| alternative provisions must be attenuated to the emission limits shown in Section 15.209. In no case shall the level of the unwanted emissions from an intentional radiator operating under these additional provisions exceed the field strength of the fundamental emission. | Р |
| (C) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be | VERDICT |
| designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least | Р |







ADDITIONAL DOCUMENTATION

17. List of test equipment

| Equipment | Туре | Inventory no. | Manufacturer | Calibration due date | |
|--------------------------------------|-------------------------------------------------------------------------------------------|---------------|------------------------|----------------------|--|
| Test stand: Radiated emiss | Test stand: Radiated emission test - Field strength outside of the 13,110-14,010 MHz band | | | | |
| Semi-anechoic Chamber | SAC5 | 9020567 | Albatross project | 12/2024 | |
| Active Loop Antenna and power supply | HFH2-Z2E+IN 600 | 9015215 | Rohde&Schwarz | 06/2026 | |
| Ultralog antenna | HL562E | 9020497 | Rohde&Schwarz | 02/2026 | |
| EMI Receiver | ESW44 | 9019591 | Rohde&Schwarz | 05/2024 | |
| Power Supply | NGP814 | 9020303 | Rohde&Schwarz | | |
| Software EMC32 | 11.40.00 | | Rohde&Schwarz | | |
| Test stand: Radiated emiss | sion test - Field s | trength insi | de of the 13,110-14,01 | 0 MHz band | |
| Semi-anechoic Chamber | SAC5 | 9020567 | Albatross project | 12/2024 | |
| Active Loop Antenna and power supply | HFH2-Z2E+IN 600 | 9015215 | Rohde&Schwarz | 06/2026 | |
| EMI Receiver | ESW44 | 9019591 | Rohde&Schwarz | 05/2024 | |
| Power Supply | NGP814 | 9020303 | Rohde&Schwarz | | |
| Software EMC32 | 11.40.00 | | Rohde&Schwarz | | |







| Equipment | Туре | Inventory no. | Manufacturer | Calibration due date |
|--------------------------------------|--------------------|---------------|-------------------|----------------------|
| Test stand: 20dB Bandwidth | | | | |
| Semi-anechoic Chamber | SAC5 | 9020567 | Albatross project | 12/2024 |
| Active Loop Antenna and power supply | HFH2-Z2E+IN 600 | 9015215 | Rohde&Schwarz | 06/2026 |
| EMI Receiver | ESW44 | 9019591 | Rohde&Schwarz | 05/2024 |
| Power Supply | NGP814 | 9020303 | Rohde&Schwarz | |
| Software EMC32 | 11.40.00 | | Rohde&Schwarz | |
| Test stand: Frequency tolera | ance of the carr | ier signal | | |
| Climatic Chamber | CTS C-40/350 | 2789468 | CTS | 07/2024 |
| Active Loop Antenna and power supply | HFH2-Z2E+IN 600 | 9015215 | Rohde&Schwarz | 06/2026 |
| EMI Receiver | ESR 3 | 2782768 | Rohde&Schwarz | 05/2024 |
| Power Supply | NGP814 | 9020303 | Rohde&Schwarz | |
| Test stand: Conducted emis | ssion | | | |
| EMI Receiver | ESW44 | 9019591 | Rohde&Schwarz | 05/2024 |
| Single-phase LISN 16A | ENV216 | 2782895 | Rohde&Schwarz | 06/2024 |
| Three-Phases Power Supply | TPS T 30K60S | 2782385 | Elettrotest | 10/2024 |
| Software EMC32 | 11.40.00 | | Rohde&Schwarz | |







ADDITIONAL DOCUMENTATION

| PHOTOGRAPHIC DOCUMENTATION | | |
|----------------------------|--------------------|--|
| See the Annex below: | | |
| IT23WS91 001 Annex 1 | Photo of board | |
| IT23WS91 001 Annex 2 | Test Set-up photos | |

| SAR EVALUATION | | |
|-------------------------------------|--|--|
| See the Annex below: | | |
| IT23WS91 001 Annex 3 SAR Evaluation | | |

---END OF TEST REPORT---