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TEST REPORT

of the accredited test laboratory

TÜV Nr.: 2024-AT-TC-EEE-1-EX-0-000005-FG-008

Applicant: VusionGroup GmbH
Kalsdorfer Strasse 12
A – 8072 Fernitz-Mellach

Tested Product: Electronic shelf labelling system

Product Name: VUSION 2.1 F

Model: EDG3-0210-A

FCC-ID: 2ACQM-EDG3-0210-A

IC-ID: 12154A-EDG30210A

Manufacturer: VusionGroup GmbH
Kalsdorfer Strasse 12
A – 8072 Fernitz-Mellach

Output power / field strength: 2,02 mV/m average @ 3m distance **power supply:** 3V DC internal battery

Frequency range: 2404,053 - 2479,285 MHz **Channel separation:** 0,35 MHz

Standard: FCC: 47 CFR Part 15 (eCFR 09.04.2024)
RSS-102 Issue 6, December 2023
RSS-210 Issue 10, December 2019

TÜV AUSTRIA GMBH
Test laboratory for EMC

Ing. Andreas Malek

examined by / Testing
Laboratory
TÜV AUSTRIA GMBH

26.04.2024

Ing. Michael Emminger

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TÜV AUSTRIA GMBH

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The results of this test report only refer to the provided equipment.

Contents

| | Designation | PAGE |
|----------|---|-------|
| 1. | Applicant | 3 |
| 2. | Description of EUT | 4 |
| 3. | Standards / Final result | 5 |
| 4. | Test results | |
| | List of measurements according to 47 CFR 15 and RSS-210 | |
| 4.1 | Test object data | 6 |
| 4.2 | Number of channels and channel spacing | 7 |
| 4.3 | Duty Cycle for averaging | 8 |
| 4.4 | Field strength at 2400 – 2483,5 MHz | 9-11 |
| 4.5 | Emissions outside 2400 – 2483,5 MHz (15.209) | 12-16 |
| 4.6 | RF Exposure | 17-19 |
| Appendix | Designation | PAGES |
| 1 | Test equipment used | 5 |
| 2 | Photodocumentation | 10 |

1. Applicant

Company: VusionGroup GmbH

Department: Product & Project Manager

Address: A – 8072 Fernitz-Mellach; Kalsdorfer Strasse 12

Contact person: Mrs. Bernarda Minov-Petkov

EUT received on: 09.04.2024

Tests were performed on: 09.04. till 11.04.2024

2. Description of EUT

| | |
|---|---|
| EUT: | Electronic shelf labelling system |
| Product Name: | VUSION 2.1 F |
| Model: | EDG3-0210-A |
| Serial Number: | Prototype |
| Manufacturer: | VusionGroup GmbH A – 8072 Fernitz-Mellach; Kalsdorfer Strasse 12 |
| Description: | VusionGroup GmbH provided the following configuration for the measurements: Prototype with special test-firmware for continuous transmission |
| Operating mode: | The measurements were carried out at the following running states: test-firmware running, transmitting continuously |
| Technical data EUT: | Rated voltage: 3VDC Rated current: <1A Rated frequency: DC Mains voltage during the tests: 3VDC internal battery |
| Climatic conditions in the emc laboratory: | Relative humidity: 38% Temperature: 25°C |

3. Standards / Final result

| Name | Title | Deviation | Result |
|---|---|-----------|--------|
| Title 47 CFR Part 15 eCFR 09.04.2024 | RADIO FREQUENCY DEVICES | none | OK |
| RSS-210 Issue 10, December 2019 | Licence-Exempt Radio Apparatus: Category I Equipment | none | OK |
| RSS-102 Issue 6, December 2023 | Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) | none | OK |
| <p>Result: Opinions and interpretation of testing laboratory OK: EUT passed NOK: EUT failed</p> | | | |

4.1 TEST OBJECT DATA

General EUT Description

This transceiver is working in a network consisting of a controller station, so called Accesspoint, and various displays. The Accesspoint transmits information to the displays and receives acknowledgements. This device is a display operating in the network system. The device is equipped with a passive NFC chip onboard which does not have its own rf generation. It works as tag and can also receive information from the NFC reader station.

2.1033 (c) Technical description

2.1033 (4) Type of emission: Minimum shift keying – declared channel bandwidth 250 kHz – 'virtual' channel spacing about 0,35 MHz. Only 11 channels from the channel plan are used, therefore the channel spacing in reality is much higher and varies from 2,45 MHz minimum up to 17,15 MHz.

2.1033 (5) Frequency range: 2404,053 – 2479,285 MHz (channel center frequencies of channel 0 up to ch. 10)

2.1033 (6) Power range and Controls: The maximum field strength measured is 2,02 mV/m average @ 3m distance. There is no power control or regulation.

2.1033 (7) Maximum output power rating: 2,02 mV/m average @ 3m distance.

2.1033 (8) DC Voltage and Current: 3 VDC (internal battery)
maximum current consumption: 28,0mA during continuous transmission

RSS-135 This standard does not apply to:

- 1.1.(a) a receiver that scans radio frequencies for the purpose of enabling its associated transmitter to avoid transmitting in an occupied frequency but which does not have the capability of decoding the message (e.g. converting it to audio voice) contained in the radio signal

Worst case Spurious Emissions: 26,03 dB μ V/m Average at 7211,5 MHz.

Tests were performed on: April 9th till 11th, 2024.

4.2 Number of channels and channel spacing

§ 2.1033

Channel plan:

| ESL-CH | RF-CH | f_{G2} [GHz] (26.000000 MHz) (6049109) |
|--------|-------|--|
| CH0 | 12 | 2.404053 |
| CH1 | 29 | 2.410002 |
| CH2 | 63 | 2.421899 |
| CH3 | 71 | 2.424698 |
| CH4 | 120 | 2.441844 |
| CH5 | 141 | 2.449192 |
| CH6 | 177 | 2.461789 |
| CH7 | 199 | 2.469487 |
| CH8 | 213 | 2.474386 |
| CH9 | 220 | 2.476835 |
| CH10 | 227 | 2.479285 |

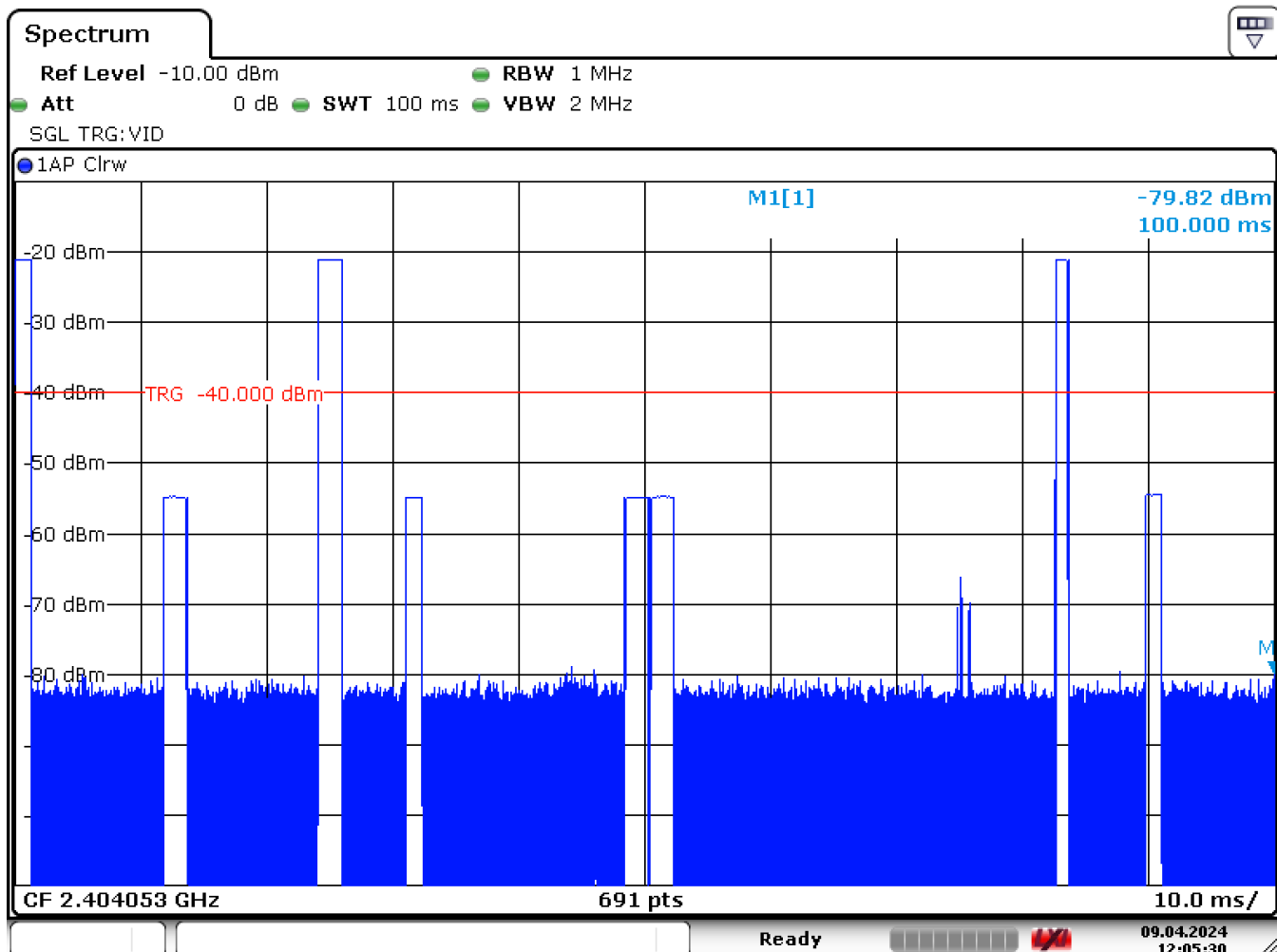
Tests were performed on ESL channels 0, 4 and 10.

Test Equipment used: N/A

4.3 Duty Cycle measurements for averaging

§ 15.249 (e)

Mode: data transmission (worst case in 100ms)



Date: 9.APR.2024 12:05:31

According to the timing protocol description provided by the manufacturer and attached as technical description to the application for certification, the transmission burst time was checked to not exceed the declared value. The declared value was taken for calculation, as that gives the worst case. The first transmission burst in a 100ms time frame has a length of 1,46ms, the second one is 1,97ms in length and the third one is 1,19ms, giving a duty cycle of 4,62% or an average factor of -26,7 dB.

LIMIT SUBCLAUSE 15.249(e)

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Test Equipment used: EMV-205

4.4 Field strength of emissions at 2400 – 2483,5 MHz

§ 15.249 (a) (c)

Operating on CH 0 (2404,053MHz)

The maximum peak value measured was 92,5 dB μ V/m = 42,17 mV/m at 3m distance.

With the averaging factor calculated on page 8 of this test report of -26,7 dB the maximum average value is then 65,8 dB μ V/m = 1,95 mV/m at 3m distance.

LIMIT SUBCLAUSE 15.249(a) (c)

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------|--|--|
| 902–928 MHz | 50 | 500 |
| 2400–2483.5 MHz | 50 | 500 |
| 5725–5875 MHz | 50 | 500 |
| 24.0–24.25 GHz | 250 | 2500 |

(c) Field strength limits are specified at a distance of 3 meters.

Test Equipment used: EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-200/1

Field strength of emissions at 2400 – 2483,5 MHz

§ 15.249 (a) (c)

Operating on CH 4 (2441,844 MHz)

The maximum peak value measured was 92,2 dB μ V/m = 40,74 mV/m at 3m distance.

With the averaging factor calculated on page 8 of this test report of -26,7 dB the maximum average value is then 65,5 dB μ V/m = 1,88 mV/m at 3m distance.

LIMIT SUBCLAUSE 15.249(a) (c)

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------|--|--|
| 902–928 MHz | 50 | 500 |
| 2400–2483.5 MHz | 50 | 500 |
| 5725–5875 MHz | 50 | 500 |
| 24.0–24.25 GHz | 250 | 2500 |

(c) Field strength limits are specified at a distance of 3 meters.

Test Equipment used: EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-200/1

Field strength of emissions at 2400 – 2483,5 MHz

§ 15.249 (a) (c)

Operating on CH 10 (2479,285 MHz)

The maximum peak value measured was 92,8 dB μ V/m = 43,65 mV/m at 3m distance.

With the averaging factor calculated on page 8 of this test report of -26,7 dB the maximum average value is then 66,1 dB μ V/m = 2,02 mV/m at 3m distance.

LIMIT SUBCLAUSE 15.249(a) (c)

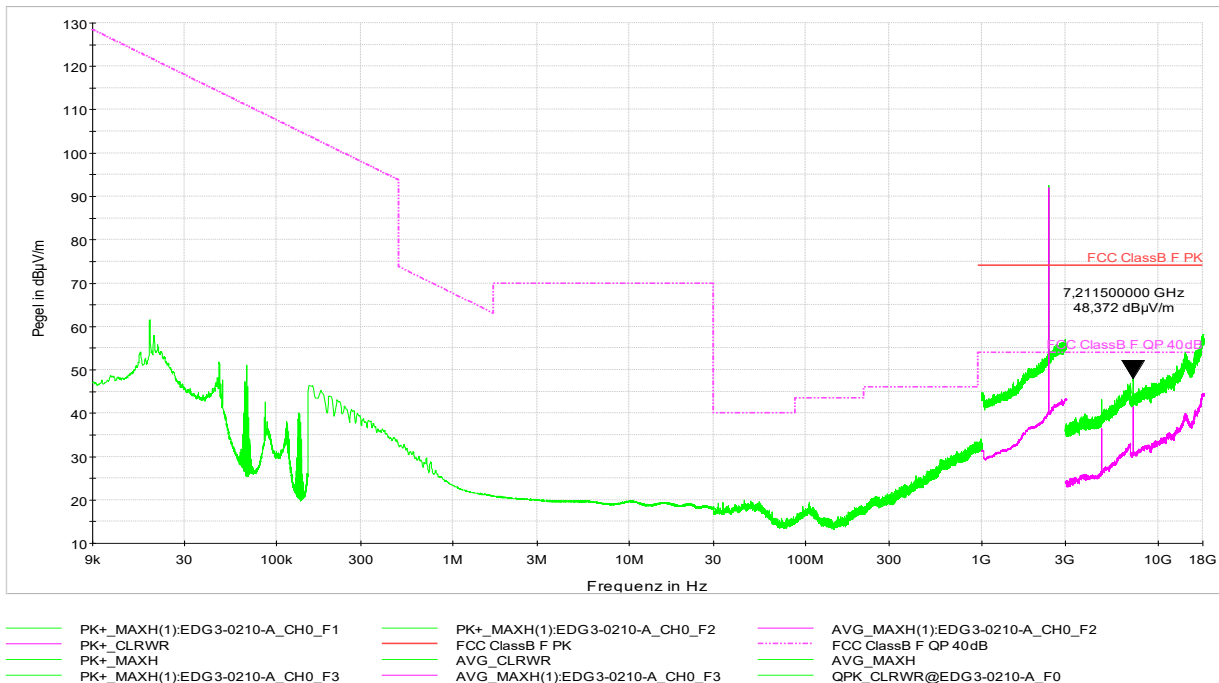
(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|------------------------------|---|---|
| 902–928 MHz | 50 | 500 |
| 2400–2483.5 MHz | 50 | 500 |
| 5725–5875 MHz | 50 | 500 |
| 24.0–24.25 GHz | 250 | 2500 |

(c) Field strength limits are specified at a distance of 3 meters.

Test Equipment used: EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-200/1

4.5 Emissions outside 2400 – 2483,5 MHz § 15.249 (d) (e)
Channel 0 (2404,053 MHz) – average values above 1 GHz are shown in magenta – green = peak



Worst case Emission: 48,37 dBµV/m Peak at 7211,5 MHz giving 26,03 dBµV/m average with the factor described on page 8.

LIMIT SUBCLAUSE 15.249(d) (e) (15.209)

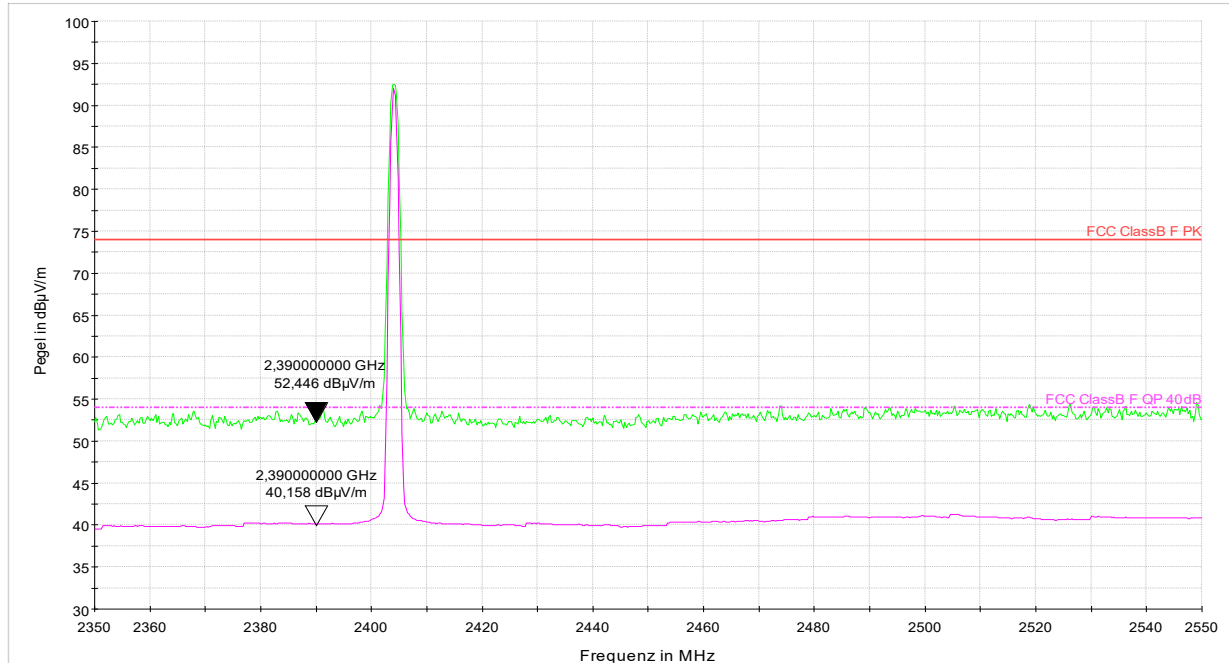
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 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 |

Test Equipment used:
 EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-111; EMV-112; EMV-200/1; NT-416

Emissions outside 2400 – 2483,5 MHz § 15.249 (d) (e)
Channel 0 (2404,053 MHz) – band edge requirement – average values are in magenta – green = peak



— PK+_MAXH(1);EDG3-0210-A_CH0_F2 — AVG_MAXH(1);EDG3-0210-A_CH0_F2 — PK+_CLRWR
— FCC ClassB F PK — FCC ClassB F QP 40dB — PK+_MAXH
— AVG_CLRWR — AVG_MAXH

Nearest Band Edge: 2390 MHz

LIMIT SUBCLAUSE 15.249(d) (e) (15.209)

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

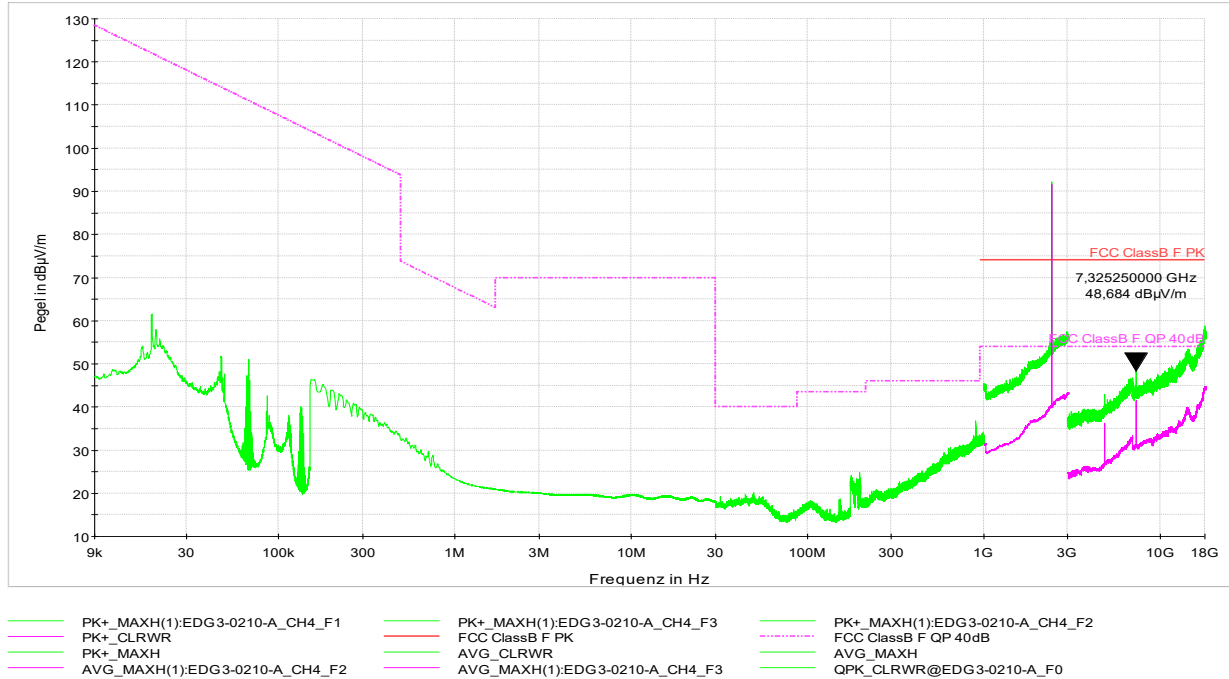
| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009–0.490 | 2400/F(kHz) | 300 |
| 0.490–1.705 | 24000/F(kHz) | 30 |
| 1.705–30.0 | 30 | 30 |
| 30–88 | 100** | 3 |
| 88–216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

Test Equipment used:

EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-111; EMV-112; EMV-200/1; NT-416

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Emissions outside 2400 – 2483,5 MHz § 15.249 (d) (e)
Channel 4 (2441,844 MHz) – average values above 1 GHz are shown in magenta – green = peak



Worst case Emission: 48,68 dBµV/m Peak at 7325,25 MHz giving 21,98 dBµV/m average with the factor described on page 8.

LIMIT SUBCLAUSE 15.249(d) (e) (15.209)

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

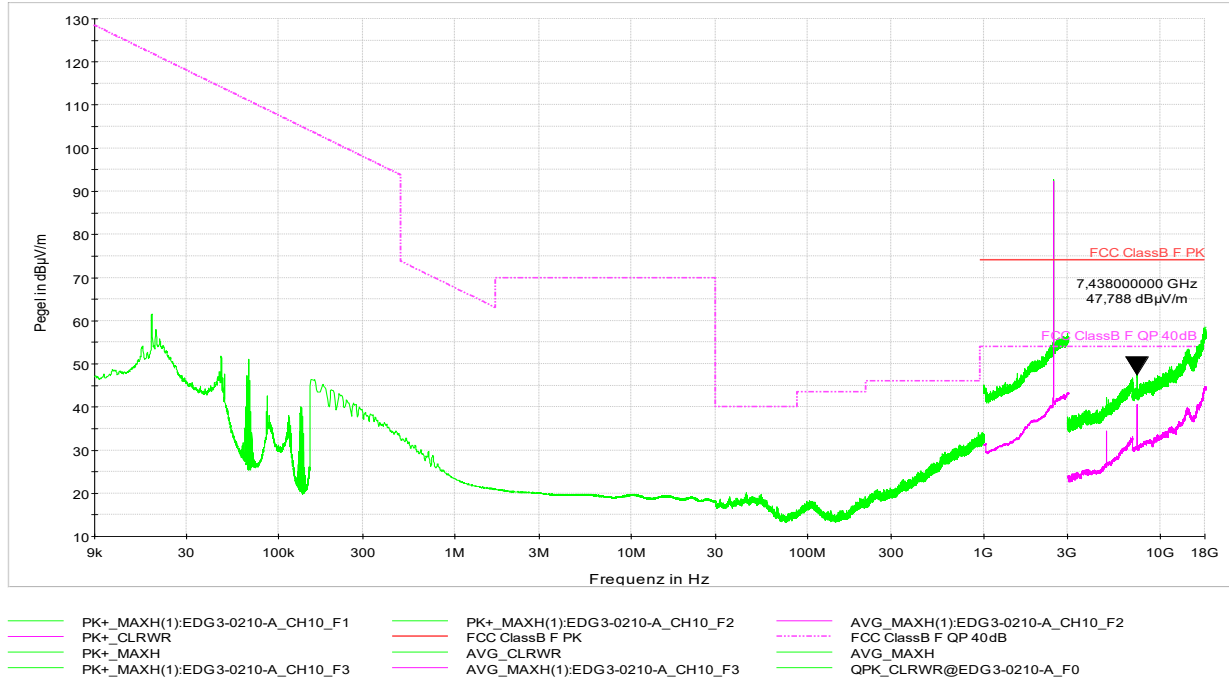
(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 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 |

Test Equipment used:

EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-111; EMV-112; EMV-200/1; NT-416

Emissions outside 2400 – 2483,5 MHz § 15.249 (d) (e)
Channel 10 (2479,285 MHz) – average values above 1 GHz are shown in magenta – green = peak



Worst case Emission: 47,79 dBµV/m Peak at 7438,0 MHz giving 21,09 dBµV/m average with the factor described on page 8.

LIMIT SUBCLAUSE 15.249(d) (e) (15.209)

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 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 |

Test Equipment used:

EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-111; EMV-112; EMV-200/1; NT-416

Emissions outside 2400 – 2483,5 MHz § 15.249 (d) (e)
Channel 10 (2479,285 MHz) – band edge requirement – average values are in magenta – green = peak



Nearest Band Edge: 2483,5 MHz

LIMIT SUBCLAUSE 15.249(d) (e) (15.209)

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 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 |

Test Equipment used:

EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-111; EMV-112; EMV-200/1; NT-416

4.6 RF Exposure

§ 1.1307(b)(3)(i)(A)

Title 47 §1.1307(b)(3)(i):

(3) Determination of exemption. (i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

| max. Tx power [mW] (from conducted and ERP measurement) | Duty cycle [%] (see 4.3) | max. time-averaged power [mW] | §1.1307(b)(3)(i)(A) limit [mW] |
|---|-----------------------------|----------------------------------|-----------------------------------|
| 1,21 | 4,62 | 0,056 | 1 |

The maximum time-averaged power is less than 1 mW.

The device is an *exempt RF device* as per Title 47 §1.1307(b)(3)(i)(A).

| ERP measurement: | | Effective radiated power (mW) | | |
|------------------------|-----------------------|-------------------------------|-----------------------|------------------------|
| Test condition | | CH 0 (2404,053MHz) | CH 4 (2441,844MHz) | CH 10 (2479,285MHz) |
| T _{nom} 25 °C | V _{nom} (3)V | 0,33 | 0,31 | 0,35 |

| EIRP measurement: | | Effective isotropically radiated power (mW) | | |
|------------------------|-----------------------|---|-----------------------|------------------------|
| Test condition | | CH 0 (2404,053MHz) | CH 4 (2441,844MHz) | CH 10 (2479,285MHz) |
| T _{nom} 25 °C | V _{nom} (3)V | 0,54 | 0,50 | 0,58 |

| Conducted measurement | | conducted power (mW) | | |
|------------------------|-----------------------|-----------------------|-----------------------|------------------------|
| Test condition | | CH 0 (2404,053MHz) | CH 4 (2441,844MHz) | CH 10 (2479,285MHz) |
| T _{nom} 25 °C | V _{nom} (3)V | 1,21 | 1,19 | 1,16 |

| Maximum Gain derived from EIRP and conducted measurement: | | Maximum Gain (dBi) | | |
|--|-----------------------|-----------------------|-----------------------|------------------------|
| Test condition | | CH 0 (2404,053MHz) | CH 4 (2441,844MHz) | CH 10 (2479,285MHz) |
| T _{nom} 25 °C | V _{nom} (3)V | -3,51 | -3,74 | -3,05 |

RF Exposure

RSS-102, Issue 6

6.3 SAR exemption limits

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

| Frequency (MHz) | Exemption Limits (mW) | | | | |
|-----------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | At separation distance of ≤5 mm (mW) | At separation distance of 10 mm (mW) | At separation distance of 15 mm (mW) | At separation distance of 20 mm (mW) | At separation distance of 25 mm (mW) |
| ≤300 | 45 | 116 | 139 | 163 | 189 |
| 450 | 32 | 71 | 87 | 104 | 124 |
| 835 | 21 | 32 | 41 | 54 | 72 |
| 1900 | 6 | 10 | 18 | 33 | 57 |
| 2450 | 3 | 7 | 16 | 32 | 56 |
| 3500 | 2 | 6 | 15 | 29 | 50 |
| 5800 | 1 | 5 | 13 | 23 | 32 |

| Frequency (MHz) | Exemption Limits (mW) | | | | |
|-----------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| | At separation distance of 30 mm (mW) | At separation distance of 35 mm (mW) | At separation distance of 40 mm (mW) | At separation distance of 45 mm (mW) | At separation distance of ≥50 mm (mW) |
| ≤300 | 216 | 246 | 280 | 319 | 362 |
| 450 | 147 | 175 | 208 | 248 | 296 |
| 835 | 96 | 129 | 172 | 228 | 298 |
| 1900 | 92 | 138 | 194 | 257 | 323 |
| 2450 | 89 | 128 | 170 | 209 | 245 |
| 3500 | 72 | 94 | 114 | 134 | 158 |
| 5800 | 41 | 54 | 74 | 102 | 128 |

The exemption limits in table 11 Table 11 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 50 mm from a flat phantom, which provides a SAR value of approximately 0.4 W/kg for 1 g of tissue.

For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 11 are multiplied by a factor of 2.5.

For controlled-use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in table 11 Table 11 are multiplied by a factor of 5.

When the operating frequency of the device is between two frequencies located in table 11, linear interpolation shall be applied for the applicable separation distance. If the separation distance of the device is between two distances located in table 11, linear interpolation may be applied for the applicable frequency. Alternatively, the limit corresponding to the smaller distance may be employed. For example, in case of a 7 mm separation distance, either use the exception value for a 5 mm separation distance or interpolate between the limits corresponding to 5 mm and 10 mm separation distances.

For implanted medical devices, the exemption limit for routine SAR evaluation is set at an output power of 1 mW, regardless of frequency.

RSS-102 Exemption calculation

| Frequency (MHz) | cond. P (mW) | max. EIRP (mW) | Duty Cycle (1) | Avg. cond. P (mW) | Avg. EIRP (mW) | separation distance (mm) | Limit (mW) | |
|-----------------|--------------|----------------|----------------|-------------------|----------------|--------------------------|------------|----|
| 2404.053 | 1,21 | 0,54 | 0,0462 | 0,056 | 0,030 | 5 | 8,13 | OK |
| 2441.844 | 1,19 | 0,50 | 0,0462 | 0,055 | 0,028 | 5 | 7,61 | OK |
| 2479.285 | 1,16 | 0,58 | 0,0462 | 0,054 | 0,032 | 5 | 7,43 | OK |

*) Calculations are done for a minimum separation distance that's derived from the antenna distance to the device casing and limb worn exposure. It is conservative, as customers are not expected to touch electronic shelf labels for extended periods of time.

The time-averaged output power is below the exemption limit for routine evaluation.

Appendix 1

Test equipment used

| | | | | | |
|--------------------------|---|-----------|--------------------------|---|-----------------|
| <input type="checkbox"/> | Anechoic Chamber with 3m measurement distance | NT-100 | <input type="checkbox"/> | Ant. tripod for EN61000-4-3 Model TP1000A | NT-156 |
| <input type="checkbox"/> | Stripline according to ISO 11452-5 | NT-108 | <input type="checkbox"/> | Power quality analyzer Fluke 1760 (complete set) | NT-160 - NT-173 |
| <input type="checkbox"/> | MA4000 - Antenna mast 1 - 4 m height | NT-110/1 | <input type="checkbox"/> | Spectrum analyzer – FSP7 9 kHz – 7 GHz | NT-200 |
| <input type="checkbox"/> | DS - Turntable 0 - 400 ° Azimuth | NT-111/1 | <input type="checkbox"/> | ESCI - Test receiver 9 kHz - 7 GHz | NT-203/1 |
| <input type="checkbox"/> | CO3000 Controller Mast+Turntable | NT-112/1 | <input type="checkbox"/> | ESR – Test receiver 20 Hz – 26,5 GHz | NT-207/1 |
| <input type="checkbox"/> | HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz | NT-121 | <input type="checkbox"/> | Digital Radio Tester CMW500 | NT-208/1 |
| <input type="checkbox"/> | FMZB1513 - Loop Antenna 9 kHz - 30 MHz | NT-122/1 | <input type="checkbox"/> | Noise-gen., ITU-R 559-2 20 Hz – 20 kHz | NT-209 |
| <input type="checkbox"/> | HFH-Z6 - Rod Antenna 9 kHz - 30 MHz | NT-123 | <input type="checkbox"/> | CMTA - Radiocommunication analyzer ; 0,1 - 1000 MHz | NT-210 |
| <input type="checkbox"/> | Dipole Antenna VHA9103 30 - 300 MHz | NT-124/1a | <input type="checkbox"/> | 3271 - Spectrum analyzer 100 Hz - 26,5 GHz | NT-211 |
| <input type="checkbox"/> | Dipole Antenna UHA9105 300 - 1000 MHz | NT-124/1b | <input type="checkbox"/> | Digital Radio Tester Aeroflex 3920 | NT-212/1 |
| <input type="checkbox"/> | 3115 - Horn Antenna 1 - 18 GHz (immunity) | NT-125 | <input type="checkbox"/> | Mixer M28HW 26,5 GHz - 40 GHz | NT-214 |
| <input type="checkbox"/> | 3116 - Horn Antenna 18 - 40 GHz | NT-126 | <input type="checkbox"/> | RubiSource T&M Timing reference | NT-216 |
| <input type="checkbox"/> | SAS-200/543 - Bicon. Antenna 20 MHz - 300 MHz | NT-127 | <input type="checkbox"/> | Radiocommunication analyzer SWR 1180 MD | NT-217 |
| <input type="checkbox"/> | AT-1080 - Log. Per. Antenna 80 - 1000 MHz | NT-128 | <input type="checkbox"/> | Mixer FS-Z60 40 GHz – 60 GHz | NT-218/1 |
| <input type="checkbox"/> | HK-116 - bicon. Antenna 20 MHz - 300 MHz | NT-129 | <input type="checkbox"/> | Mixer FS-Z90 60 GHz – 90 GHz | NT-219/1 |
| <input type="checkbox"/> | HK-116 - bicon. Antenna 20 MHz - 300 MHz | NT-130 | <input type="checkbox"/> | DSO9104 Digital scope | NT-220/1 |
| <input type="checkbox"/> | 3146 - Log. Per. Antenna 200 – 1000 MHz | NT-131 | <input type="checkbox"/> | TPS 2014 Digital scope | NT-222 |
| <input type="checkbox"/> | VULB 9163 Trilog Antenna 30 – 3000 MHz | NT-131/1 | <input type="checkbox"/> | Artificial Ear according to IEC 60318 | NT-224 |
| <input type="checkbox"/> | Loop Antenna H-Field | NT-132 | <input type="checkbox"/> | 1 kHz Sound calibrator | NT-225 |
| <input type="checkbox"/> | Horn Antenna 500 MHz - 2900 MHz | NT-133 | <input type="checkbox"/> | SRM-3006 Spectrum analyzer | NT-233/1a |
| <input type="checkbox"/> | Horn Antenna 500 MHz - 6000 MHz | NT-133/1 | <input type="checkbox"/> | E-field probe SRM 75 MHz – 3 GHz | NT-234 |
| <input type="checkbox"/> | Log. per. Antenna 800 MHz - 2500 MHz | NT-134 | <input type="checkbox"/> | Field Meter NBM-500 incl. E- and H-Field probes | NT-240a-e |
| <input type="checkbox"/> | Log. per. Antenna 800 MHz - 2500 MHz | NT-135 | <input type="checkbox"/> | Magnetometer HP-01 | NT-241/1 |
| <input type="checkbox"/> | BiConiLog Antenna 26 MHz – 2000 MHz | NT-137 | <input type="checkbox"/> | EFA-3 H-field- / E-field probe | NT-243 |
| <input type="checkbox"/> | Conical Dipol Antenna PCD8250 | NT-138 | <input type="checkbox"/> | EHP-50F H-field- / E-field probe | NT-243/1 |
| <input type="checkbox"/> | HF 906 - Horn Antenna 1 - 18 GHz (emission) | NT-139 | <input type="checkbox"/> | Field Meter EMR-200 100 kHz – 3 GHz | NT-244 |
| <input type="checkbox"/> | HZ-1 Antenna tripod | NT-150 | <input type="checkbox"/> | E-field probe 100 kHz – 3 GHz | NT-245 |
| <input type="checkbox"/> | BN 1500 Antenna tripod | NT-151 | <input type="checkbox"/> | H-field probe 300 kHz – 30 MHz | NT-246 |

Division:
Industry & Energy

Test report number:
2024-AT-TC-EEE-1-EX-0-000005-FG-008

Page: 1 of 5

Date: 26.04.2024

Appendix 1 (continued) Test equipment used

| | | | | | |
|--------------------------|---|-------------|--------------------------|--|----------|
| <input type="checkbox"/> | E-field probe 3 MHz – 18 GHz | NT-247 | <input type="checkbox"/> | Prana N-MT 500 - RF-Amplifier 80 - 1000 MHz / 500 W | NT-332/1 |
| <input type="checkbox"/> | H-field probe 27 MHz – 1 GHz | NT-248 | <input type="checkbox"/> | BBA150 RF-Amplifier 1 GHz - 6 GHz | NT-333/1 |
| <input type="checkbox"/> | ELT-400 1 Hz – 400 kHz | NT-249 | <input type="checkbox"/> | APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz | NT-334 |
| <input type="checkbox"/> | MDS 21 - Absorbing clamp 30 - 1000 MHz | NT-250 | <input type="checkbox"/> | Preamplifier 1 GHz - 4 GHz | NT-335 |
| <input type="checkbox"/> | CDN EMCL-35 EM Injection clamp | NT-251/1 | <input type="checkbox"/> | Preamplifier for GPS MKU 152 A | NT-336 |
| <input type="checkbox"/> | FCC-203I-DCN Ferrite decoupling network | NT-252 | <input type="checkbox"/> | Preamplifier 1 GHz – 18 GHz | NT-337/1 |
| <input type="checkbox"/> | PR50 Current Probe | NT-253 | <input type="checkbox"/> | DC Block 10 MHz – 18 GHz Model 8048 | NT-338 |
| <input type="checkbox"/> | i310s Current Probe | NT-254/1 | <input type="checkbox"/> | 2-97201 Electronic load | NT-341 |
| <input type="checkbox"/> | Fluke 87 V True RMS Multimeter | NT-260 | <input type="checkbox"/> | TSX3510P - Power supply 0-30 V / 0 - 10 A | NT-344 |
| <input type="checkbox"/> | Model 2000 Digital Multimeter | NT-261 | <input type="checkbox"/> | TSX3510P - Power supply 0-30 V / 0 - 10 A | NT-345 |
| <input type="checkbox"/> | Fluke 87 V Digital Multimeter | NT-262/1 | <input type="checkbox"/> | VDS 200 Mobil-impuls-generator | NT-350 |
| <input type="checkbox"/> | ESH2-Z5-U1 Artificial mains network 4x25A | NT-300 | <input type="checkbox"/> | LD 200 Mobil-impuls-generator | NT-351 |
| <input type="checkbox"/> | ESH3-Z5-U1 Artificial mains network 2x10A | NT-301 | <input type="checkbox"/> | MPG 200 Mobil-Impuls-Generators | NT-352 |
| <input type="checkbox"/> | ESH3-Z6-U1 Artificial mains network 1x100A | NT-302 | <input type="checkbox"/> | EFT 200 Mobil-impuls-generator | NT-353 |
| <input type="checkbox"/> | ESH3-Z6-U1 Artificial mains network 1x100A | NT-302a | <input type="checkbox"/> | AN 200 S1 Artificial Network | NT-354 |
| <input type="checkbox"/> | EZ10 T-Artificial Network | NT-305 | <input type="checkbox"/> | FP-EFT 32M 3 ph. Coupling filter (Burst) | NT-400/1 |
| <input type="checkbox"/> | SMG - Signal generator 0,1 - 1000 MHz | NT-310 | <input type="checkbox"/> | PHE 4500 - Mains impedance network | NT-401 |
| <input type="checkbox"/> | SMA100A - Signal generator 9 kHz - 6 GHz | NT-310/1 | <input type="checkbox"/> | IP 6.2 Coupling filter for data lines (Surge) | NT-403 |
| <input type="checkbox"/> | RefRad Reference generator | NT-312 | <input type="checkbox"/> | TK 9421 High Power Volt. Probe 150 kHz - 30 MHz | NT-409 |
| <input type="checkbox"/> | SMP 02 Signal generator 10 MHz - 20 GHz | NT-313 | <input type="checkbox"/> | ESH2-Z3 - Probe 9 kHz - 30 MHz | NT-410 |
| <input type="checkbox"/> | 40 MHz Arbitrary Generator TGA1241 | NT-315 | <input type="checkbox"/> | CN-EFT1000 - Capacitive clamp (Burst) | NT-411/1 |
| <input type="checkbox"/> | Artificial mains network NSLK 8127-PLC | NT-316 | <input type="checkbox"/> | Highpass-Filter 100 MHz – 3 GHz | NT-412 |
| <input type="checkbox"/> | PSURGE 4.1 Surge generator | NT-324 | <input type="checkbox"/> | Highpass-Filter 600 MHz – 4 GHz | NT-413 |
| <input type="checkbox"/> | IMU4000 Immunity test system | NT-325/1a-e | <input type="checkbox"/> | Highpass-Filter 1250 MHz – 4 GHz | NT-414 |
| <input type="checkbox"/> | VCS 500-M6 Surge-Generator | NT-326 | <input type="checkbox"/> | Highpass-Filter 1800 MHz – 16 GHz | NT-415 |
| <input type="checkbox"/> | Oscillatory Wave Simulator incl. Coupling networks | NT-328a+b+c | | | |
| <input type="checkbox"/> | BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W | NT-330 | | | |

Division:
Industry & Energy

Test report number:
2024-AT-TC-EEE-1-EX-0-
000005-FG-008

Page: 2 of 5

Date: 26.04.2024

Appendix 1 (continued) Test equipment used

| | | | | | |
|--------------------------|--|----------|--------------------------|---|--------------------|
| <input type="checkbox"/> | RF-Attenuator 10 dB DC – 18 GHz / 50 W | NT-417/1 | <input type="checkbox"/> | SW 9605 - Current probe 150 kHz – 30 MHz | NT-465/1 |
| <input type="checkbox"/> | RF-Attenuator 6 dB DC – 18 GHz / 50 W | NT-418 | <input type="checkbox"/> | 95242-1 – Current probe 1 MHz – 400 MHz | NT-468 |
| <input type="checkbox"/> | RF-Attenuator 3 dB DC – 18 GHz / 50 W | NT-419 | <input type="checkbox"/> | 94106-1L-1 – Current probe 100 kHz – 450 MHz | NT-471 |
| <input type="checkbox"/> | RF-Attenuator 20 dB DC - 1000 MHz / 25 W | NT-421 | <input type="checkbox"/> | WHKX12-2700-3000-18000 3 GHz Highpass filter | NT-472 |
| <input type="checkbox"/> | RF-Attenuator 30 dB DC - 1000 MHz / 1 W | NT-423 | <input type="checkbox"/> | WHKX10-3870-4500-18000 4,5 GHz Highpass filter | NT-473 |
| <input type="checkbox"/> | RF-Attenuator 30 dB | NT-424 | <input type="checkbox"/> | CDN S9 USB3.0 Coupling decoupling network | NT-474 |
| <input type="checkbox"/> | RF-Attenuator 6 dB DC - 1000 MHz / 1 W | NT-425 | <input type="checkbox"/> | CDN S2 XLR3-1 Coupling decoupling network | NT-475 |
| <input type="checkbox"/> | RF-Attenuator 6 dB DC - 1000 MHz / 1 W | NT-426 | <input type="checkbox"/> | CDN S8 RJ45 Coupling decoupling network | NT-476 |
| <input type="checkbox"/> | RF-Attenuator 6 dB | NT-428 | <input type="checkbox"/> | GA 1240 Power amplifier according to EN 61000-4-16 | NT-480 |
| <input type="checkbox"/> | RF-Attenuator 0 dB - 81 dB | NT-429 | <input type="checkbox"/> | Coupling networks according to EN 61000-4-16 | NT-481 - NT-483 |
| <input type="checkbox"/> | WRU 27 - Band blocking 27 MHz | NT-430 | <input type="checkbox"/> | Van der Hoofden Test Head | NT-484 |
| <input type="checkbox"/> | WHJ450C9 AA - High pass 450 MHz | NT-431 | <input type="checkbox"/> | WRCJV12-5820-5850-5950-5980 5,9 GHz Band Reject Filter | NT-490 |
| <input type="checkbox"/> | WHJ250C9 AA - High pass 250 MHz | NT-432 | <input type="checkbox"/> | WHKX10-5670-6300-18000 6 GHz Highpass filter | NT-491 |
| <input type="checkbox"/> | RF-Load 150 W | NT-433 | <input type="checkbox"/> | WHK12-935-1000-7000 1 GHz Highpass filter | NT-492 |
| <input type="checkbox"/> | Impedance transducer 1:4 ; 1:9 ; 1:16 | NT-435 | <input type="checkbox"/> | EMC Video/Audiosystem | NT-511/1 |
| <input type="checkbox"/> | RF-Attenuator DC – 18 GHz 6 dB | NT-436 | <input type="checkbox"/> | EMC32 Version 10.60.20 Test software | NT-520/1 |
| <input type="checkbox"/> | RF-Attenuator DC – 18 GHz 6 dB | NT-437 | <input type="checkbox"/> | SRM-TS Version 1.3 software for SRM-3000 | NT-522 |
| <input type="checkbox"/> | RF-Attenuator DC – 18 GHz 10 dB | NT-438 | <input type="checkbox"/> | SRM-TS Version 1.3.1 software for SRM-3006 | NT-522/1 |
| <input type="checkbox"/> | RF-Attenuator DC – 18 GHz 20 dB | NT-439 | <input type="checkbox"/> | Spitzenberger und Spies Test software V4.1 | NT-525 |
| <input type="checkbox"/> | I+P 7780 Directional coupler 100 - 2000 MHz | NT-440 | <input type="checkbox"/> | Vertical coupling plane (ESD) | NT-531 |
| <input type="checkbox"/> | ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz | NT-441 | <input type="checkbox"/> | Test cable #4 for EN 61000-4-6 | NT-553 |
| <input type="checkbox"/> | Power Divider 6 dB/1 W/50 Ohm | NT-443 | <input type="checkbox"/> | Test cable #3 for conducted emission | NT-554 |
| <input type="checkbox"/> | Directional coupler 0,1 MHz – 70 MHz | NT-444 | <input type="checkbox"/> | Test cable #5+#6 ESD-cable (2x470k) | NT-555 + NT-556 |
| <input type="checkbox"/> | Directional coupler 0,1 MHz – 70 MHz | NT-445 | <input type="checkbox"/> | Test cable #8 Sucoflex 104EA | NT-559 |
| <input type="checkbox"/> | Tube imitations according to EN 55015 | NT-450 | <input type="checkbox"/> | Test cable #9 (for outdoor measurements) | NT-580 |
| <input type="checkbox"/> | FCC-801-M3-16A Coupling decoupling network | NT-458 | <input type="checkbox"/> | Test cable #10 (for outdoor measurements) | NT-581 |
| <input type="checkbox"/> | FCC-801-M2-50A Coupling decoupling network | NT-459 | <input type="checkbox"/> | Test cable #13 Sucoflex 104PE | NT-584 |
| <input type="checkbox"/> | FCC-801-M5-25 Coupling decoupling network | NT-460 | <input type="checkbox"/> | Test cable #21 for SRM-3000 | NT-592 |
| <input type="checkbox"/> | FCC-801-T4 Coupling decoupling network | NT-463 | <input type="checkbox"/> | Shield chamber | NT-600 |
| <input type="checkbox"/> | FCC-801-C1 Coupling decoupling network | NT-464 | <input type="checkbox"/> | Climatic chamber | M-1200 |

Division:
Industry & Energy

Test report number:
2024-AT-TC-EEE-1-EX-0-
000005-FG-008

Page: 3 of 5

Date: 26.04.2024

Appendix 1 (continued)

Test equipment used

| | | | | | |
|--------------------------|--|---------------------|--------------------------|--|-----------------|
| <input type="checkbox"/> | Anechoic Chamber 3 m / 5 m measuring distance | EMV-100 | <input type="checkbox"/> | HF- Amplifier 9 kHz-225 MHz BBL200 | EMV-300/1 |
| <input type="checkbox"/> | Turntabel 6 m diameter | EMV-101 | <input type="checkbox"/> | HF- Amplifier 80 -1000 MHz BBA150 | EMV-301 |
| <input type="checkbox"/> | Antenna mast + controller | EMV-102+ EMV-103 | <input type="checkbox"/> | HF- Amplifier 0,8 - 6 GHz BBA150 | EMV-302 |
| <input type="checkbox"/> | EMC Video/Audiosystem | EMV-104 | <input type="checkbox"/> | High Power Ant. 20-200 MHz HPBA-2510 | EMV-303/1 |
| <input type="checkbox"/> | EMC Software EMC32 Version 10.60.20 | EMV-105 | <input type="checkbox"/> | High Power Ant. 20-200 MHz S12018-21 | EMV-303/2 |
| <input type="checkbox"/> | Hornantenna 1 – 18 GHz HF 907 | EMV-110 | <input type="checkbox"/> | Log.per Antenna 80-2700 MHz STLP 9128 E special | EMV-304 |
| <input type="checkbox"/> | Antennapre.amp. 1 – 18 GHz BBV 9718 D | EMV-111/1 | <input type="checkbox"/> | Log.per Antenna 0,7 – 9 GHz STLP9149 | EMV-305 |
| <input type="checkbox"/> | Trilog Antenna 30-3000 MHz VULB9163 | EMV-112 | <input type="checkbox"/> | HF- Amplifier 9 kHz-250 MHz BBA150 (low noise) | EMV-306 |
| <input type="checkbox"/> | Monopol 9 kHz – 30 MHz VAMP 9243 | EMV-113 | <input type="checkbox"/> | ISO11451-2 TLS 10 kHz – 30 MHz | EMV-307 |
| <input type="checkbox"/> | Antennapre.amp 18 – 40 GHz BBV 9721 | EMV-114 | <input type="checkbox"/> | Load Dump Generator LD 200N | EMV-350 |
| <input type="checkbox"/> | Hornantenna 200 – 2000 MHz AH-220 | EMV-115 | <input type="checkbox"/> | Ultra Compact Symulator UCS 200N100 | EMV-351 |
| <input type="checkbox"/> | DC Artificial Network PVDC 8300 | EMV-150 | <input type="checkbox"/> | Automotive Power fail module PFM 200N100.1 | EMV-352 |
| <input type="checkbox"/> | AC Artificial Network NNLK 8121 RC | EMV-151 | <input type="checkbox"/> | Voltage Drop Symulator VDS 200Q100 | EMV-353 |
| <input type="checkbox"/> | AC Artificial Network NNLK 140 | EMV- 153a-d | <input type="checkbox"/> | Arb. Generator AutoWave | EMV-354 |
| <input type="checkbox"/> | EMI Receiver ESW44 | EMV-200/1 | <input type="checkbox"/> | Ultra Compact Symulator UCS 500N7 | EMV-355 |
| <input type="checkbox"/> | Signalgenerator 9 kHz – 40 GHz N5173B | EMV-201 | <input type="checkbox"/> | Coupling decoupling network CNI 503B7 / 32 A | EMV-356 |
| <input type="checkbox"/> | GPS Frequency normal B-88 | EMV-202 | <input type="checkbox"/> | Coupling decoupling network CNI 503B7 / 63 A | EMV-357 |
| <input type="checkbox"/> | DC Power supply N5745A | EMV-203 | <input type="checkbox"/> | Telecom Surge Generator TSurge 7 | EMV-358 |
| <input type="checkbox"/> | Spektrum Analyzator FSV40 | EMV-205 | <input type="checkbox"/> | Coupling decoupling network CNI 508N2 | EMV-359 |
| <input type="checkbox"/> | Thd Multimeter Model 2015 | EMV-206 | <input type="checkbox"/> | Coupling decoupling network CNV 504N2.2 | EMV-360 |
| <input type="checkbox"/> | Poweramplifier PAS15000 | EMV- 207/abc | <input type="checkbox"/> | Immunity generator NSG4060/NSG4060-1 | EMV-361 |
| <input type="checkbox"/> | Inrush Current Source | EMV- 208/abc | <input type="checkbox"/> | Coupling network CDND M316-2 | EMV-362 |
| <input type="checkbox"/> | Arb.-generator Sycore | EMV-209 | <input type="checkbox"/> | Coupling network CT419-5 | EMV-363 |
| <input type="checkbox"/> | Harmonics/Flicker analyzer ARS 16/3 | EMV-210 | <input type="checkbox"/> | ESD Generator NSG 437 | EMV-364 |
| <input type="checkbox"/> | Power Supply Regatron AC | EMV-214 | <input type="checkbox"/> | Pulse Limiter VTSD 9561-F BNC | EMV-405 |
| <input type="checkbox"/> | Power Supply Regatron DC | EMV-215 | <input type="checkbox"/> | Transient emission BSM200N40+BS200N100 | EMV- 450+451 |
| <input type="checkbox"/> | Harmonics/Flicker analyser Zimmer | EMV-216 | <input type="checkbox"/> | Cap. Coupling Clamp HFK | EMV-455 |
| <input type="checkbox"/> | Flicker Impedanz Newtons4th 753 | EMV-218 | <input type="checkbox"/> | Mag. Field System MS100N+MC26100+MC2630 | EMV- 456-458 |
| <input type="checkbox"/> | Comemso | EMV-219 | | | |

Division:
Industry & Energy

Test report number:
2024-AT-TC-EEE-1-EX-0-
000005-FG-008

Page: 4 of 5

Date: 26.04.2024

Appendix 1 (continued) Test equipment used

| | | |
|--------------------------|--------------------------------------|-------------|
| <input type="checkbox"/> | Coupling network CDN M2-100A | EMV-459 |
| <input type="checkbox"/> | Coupling network CDN M3-32A | EMV-460 |
| <input type="checkbox"/> | Coupling network CDN M5-100A | EMV-461 |
| <input type="checkbox"/> | Current Clamp CIP 9136A | EMV-462 |
| <input type="checkbox"/> | DC Artificial Network HV-AN 150 | EMV-464+465 |
| <input type="checkbox"/> | Coupling Clamp EM 101 | EMV-466 |
| <input type="checkbox"/> | Decoupling Clamp FTC 101 | EMV-467 |
| <input type="checkbox"/> | Power attenuator 10 dB / 250 Watt | EMV-469/2 |
| <input type="checkbox"/> | HV AMN NNHV 8123 800A | EMV-472 |
| <input type="checkbox"/> | HV AMN NNHV 8123 800A | EMV-473 |

Division:
Industry & Energy

Test report number:
2024-AT-TC-EEE-1-EX-0-
000005-FG-008

Page: 5 of 5

Date: 26.04.2024