
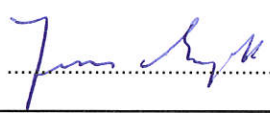


| EMC TEST REPORT FCC 47 CFR Part 15B, ISED ICES-003 Issue 6 | |
|---|--|
| Report Reference No | G0M-1803-7264-EF0115B-V01 |
| Testing Laboratory | Eurofins Product Service GmbH |
| Address | Storkower Str. 38c 15526 Reichenwalde Germany |
| Accreditation |  <p>A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC Testing Laboratory site: 3470A-2</p> |
| Applicant | Grässlin GmbH |
| Address | Bundesstraße 36 78112 St. Georgen GERMANY |
| Test Specification | Full compliance test |
| Standard | 47 CFR Part 15 Subpart B ISED ICES-003 Issue 6 ANSI C63.4:2014 |
| Non-Standard Test Method | None |
| Equipment under Test (EUT): | |
| Product Description | 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module |
| Model(s) | talento smart LAN |
| Additional Model(s) | None |
| Brand Name(s) | None |
| Hardware Version(s) | Rev_02 |
| Software Version(s) | V.1.0 |
| Contains FCC-ID | 2AHH7-DG |
| Contains IC | 21619-DG |
| Test Result | PASSED |

| Possible test case verdicts: | |
|--|---|
| required by standard but not tested | N/T |
| not required by standard | N/R |
| required by standard but not appl. to test object | N/A |
| test object does meet the requirement | P(PASS) |
| test object does not meet the requirement | F(FAIL) |
| Testing: | |
| Date of receipt of test item | 2018-07-26 |
| Report: | |
| Compiled by | Matthias Handrik |
| Tested by (+ signature) (Responsible for Test) | Matthias Handrik  |
| Approved by (+ signature) (Deputy Head of Lab) | Jens Marquardt  |
| Date of Issue | 2018-08-30 |
| Total number of pages | 31 |
| General Remarks: | |
| <p>The test results presented in this report relate only to the object tested.</p> <p>The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> | |
| Additional Comments: | |
| | |

ABBREVIATIONS AND ACRONYMS

| Acronyms | |
|------------------|---|
| Acronym | Description |
| EUT | Equipment Under Test |
| FCC | Federal Communications Commission |
| ISED | Innovation, Science and Economic Development Canada |
| T _{NOM} | Nominal operating temperature |
| V _{NOM} | Nominal supply voltage |

VERSION HISTORY

| Version History | | | |
|-----------------|------------|-----------------|------------|
| Version | Issue Date | Remarks | Revised By |
| 01 | 2018-08-30 | Initial Release | |

REPORT INDEX

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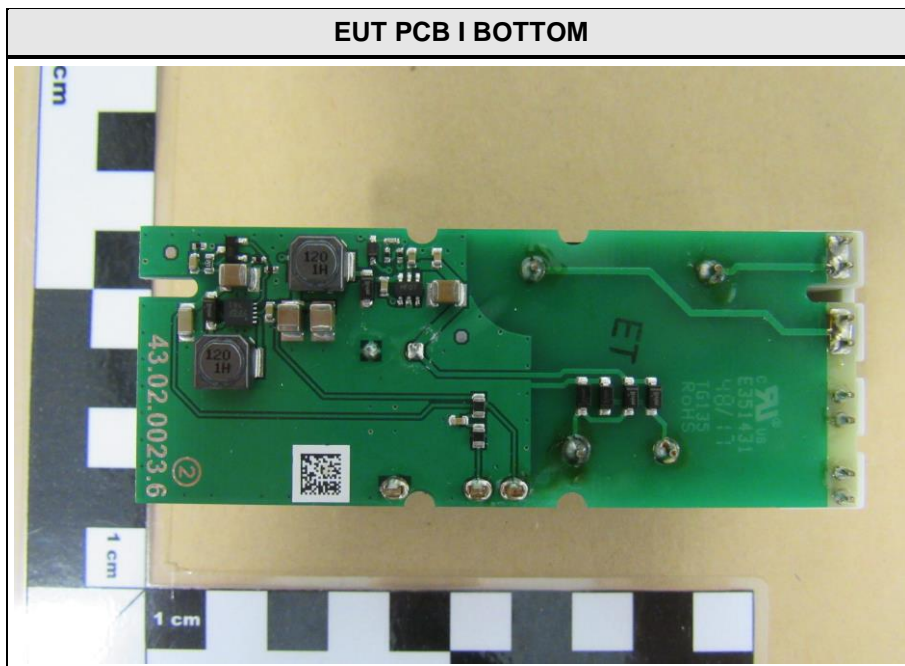
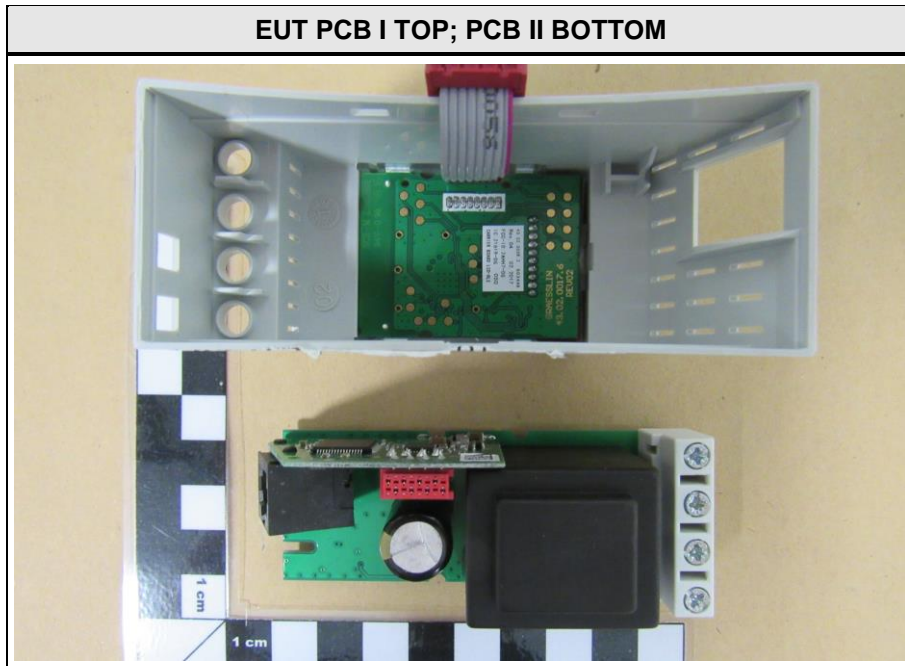
1 Equipment (Test Item) Under Test

| | | |
|----------------------------------|--|-----------------------|
| Description | 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module | |
| Model | talento smart LAN | |
| Additional Model(s) | None | |
| Brand Name(s) | None | |
| Serial Number(s) | unspecified | |
| Hardware Version(s) | Rev_02 | |
| Software Version(s) | V.1.0 | |
| Contains FCC-ID | 2AHH7-DG | |
| Contains IC | 21619-DG | |
| Class | Class B | |
| Equipment type | Table top | |
| Highest internal frequency [MHz] | 2483.5 | |
| Radio Module | Type | Bluetooth Low Energy |
| | Model | Carrier Board V16 BLE |
| | Manufacturer | Grässlin GmbH |
| | FCC-ID | Unspecified |
| | IC | Unspecified |
| Supply Voltage | V _{NOM} | 115 VAC |
| AC/DC-Adaptor | None | |
| Manufacturer | Grässlin GmbH Bundesstraße 36 78112 St. Georgen GERMANY | |

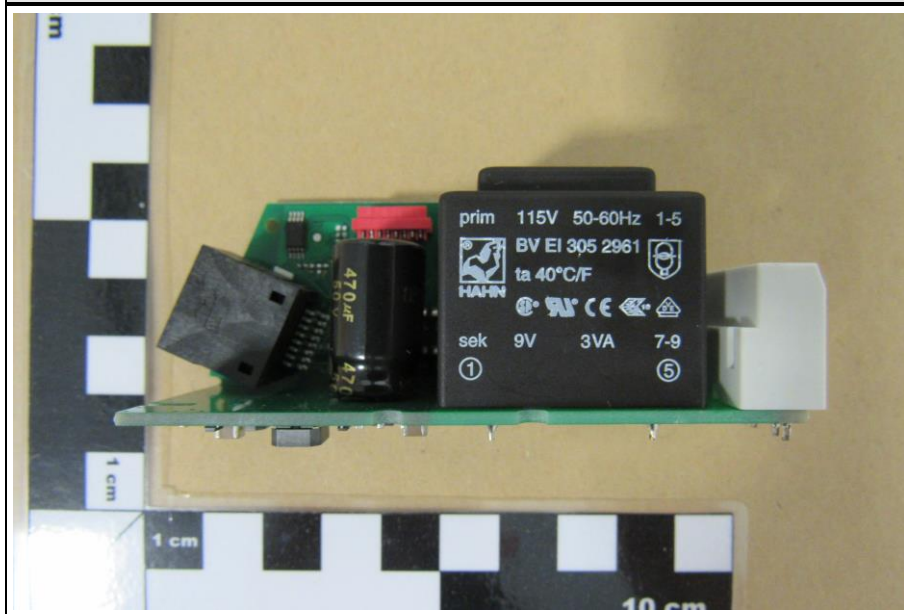
1.1 Equipment Ports

| Name | Type | Attributes | Comment |
|--------------|----------------------------------|---|---------|
| Power | AC | Count: 1 Direction: In Service only: No | |
| Ethernet | IO | Count: 1 Direction: In/Out Service only: No | |
| Description: | | | |
| AC | AC mains power input/output port | | |
| DC | DC power input/output port | | |
| IO | Input/Output port | | |
| TP | Telecommunication port | | |
| NE | Non-electrical port | | |

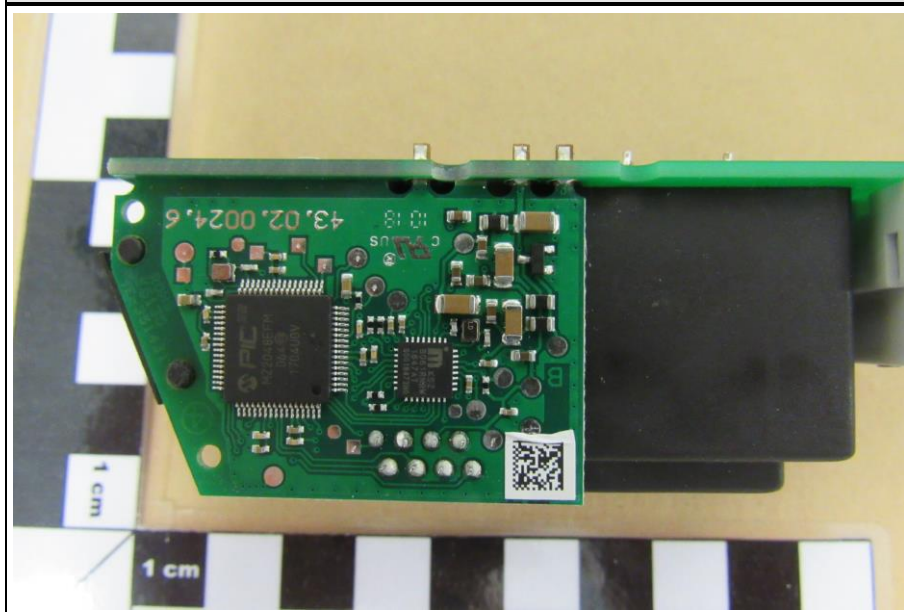
1.2 Equipment Photos - Internal



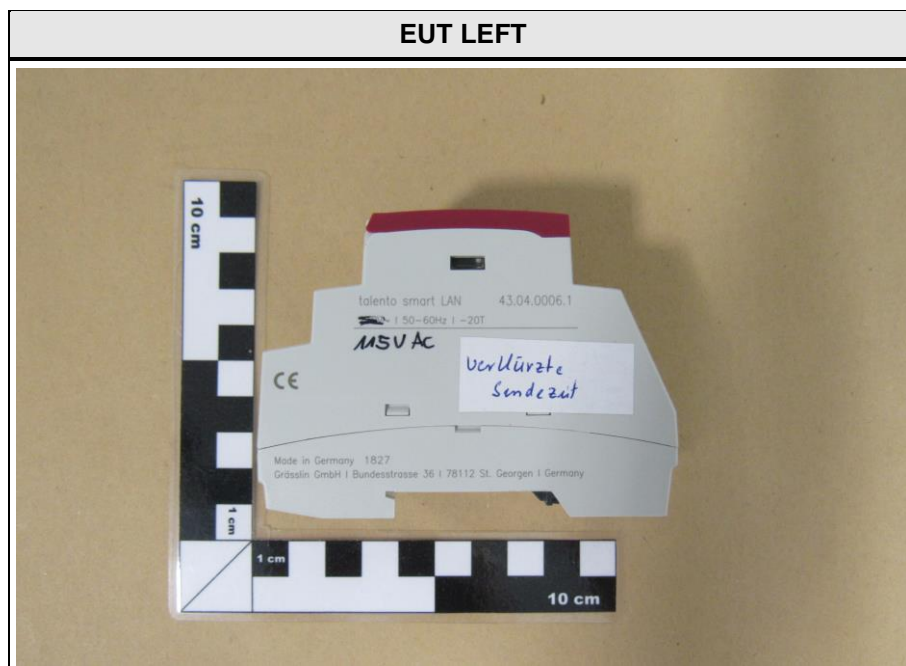
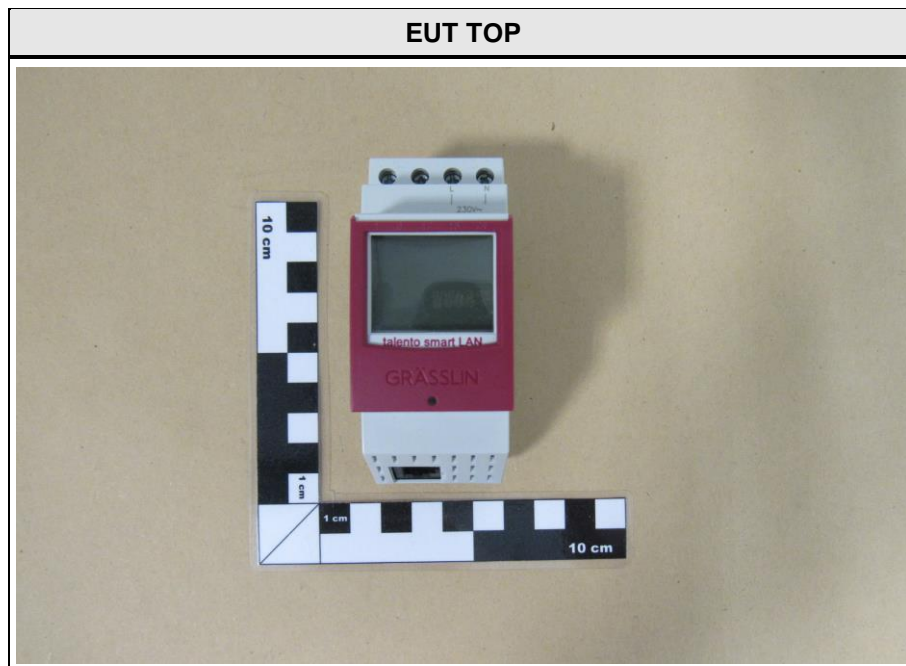
EUT PCB I FRONT



EUT PCB I BACK



1.3 Equipment Photos - External





1.4 Support Equipment

| Product Type | Device | Manufacturer | Model | Comment |
|--------------|---------------------|---------------|------------------|------------------|
| AE | Timer switch | Grässlin GmbH | Talento smart 25 | Companion device |
| AE | Laptop | DELL | Presicion M4500 | |
| Description: | | | | |
| AE | Auxillary Equipment | | | |
| SIM | Simulator | | | |
| CBL | Connecting Cable | | | |
| Comment: | | | | |

1.5 Operational Modes

| Mode # | Description |
|----------|--|
| 1 | EUT powered up. Ethernet ping to laptop. Bluetooth Low energy connection to companion device (every 3 sec. EUT transmit to companion device and companion device send back). |
| Comment: | |

1.6 EUT Configuration

| Configuration # | Description |
|-----------------|--|
| 1 | EUT powered via 115V AC. EUT is placed on tabletop in measurement chamber. Direct Ethernet connection to laptop, laptop is placed outside the measurement chamber. Companion device is placed under the table in the measurement chamber. |
| Comment: | |

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBµV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

| | | | | | |
|--------------|-----------------------|---|-------------|---------------|-----------|
| Reading + AF | = Net Reading | : | Net reading | - FCC limit | = Margin |
| +21.5 dBµV | + 26 dB = 47.5 dBµV/m | : | 47.5 dBµV/m | - 57.0 dBµV/m | = -9.5 dB |

2 Result Summary

| FCC 47 CFR Part 15B, ISED ICES-003 Issue 6 | | | | |
|--|-----------------------------------|------------------|--------|---------|
| Reference | Requirement | Reference Method | Result | Remarks |
| Emission | | | | |
| FCC 15.109 ICES-003, 8, 6.1 | Radiated emissions | ANSI C63.4:2014 | PASS | |
| FCC 15.107 ICES-003, 8, 6.2 | AC power line conducted emissions | ANSI C63.4:2014 | PASS | |
| Comment: | | | | |

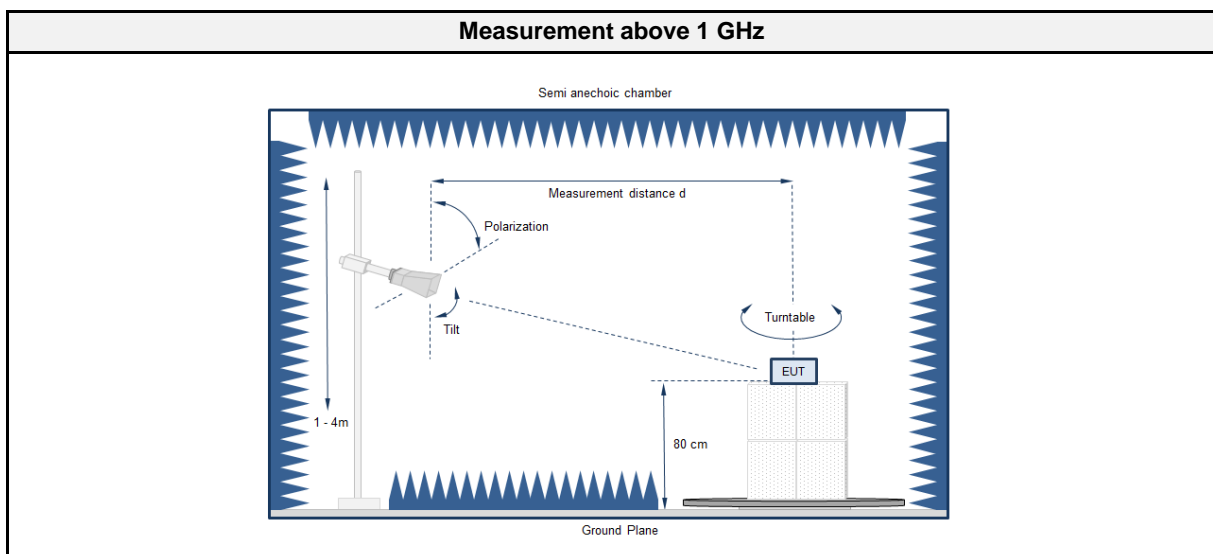
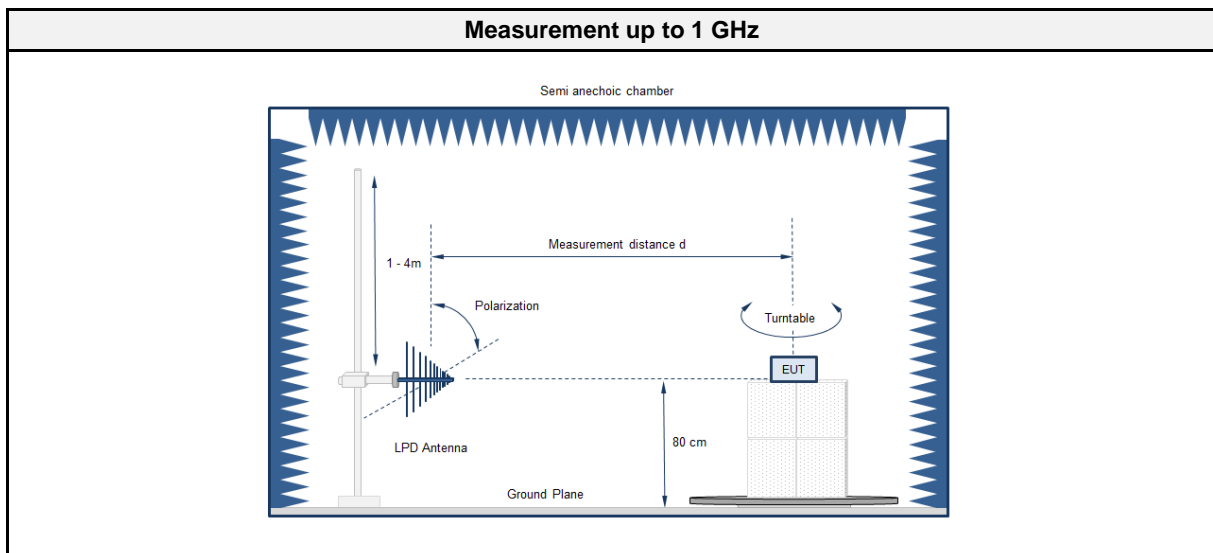
| Possible Test Case Verdicts | |
|-----------------------------|--|
| PASS | Test object does meet the requirements |
| FAIL | Test object does not meet the requirements |
| N/T | Required by standard but not tested |
| N/R | Not required by standard for the test object |

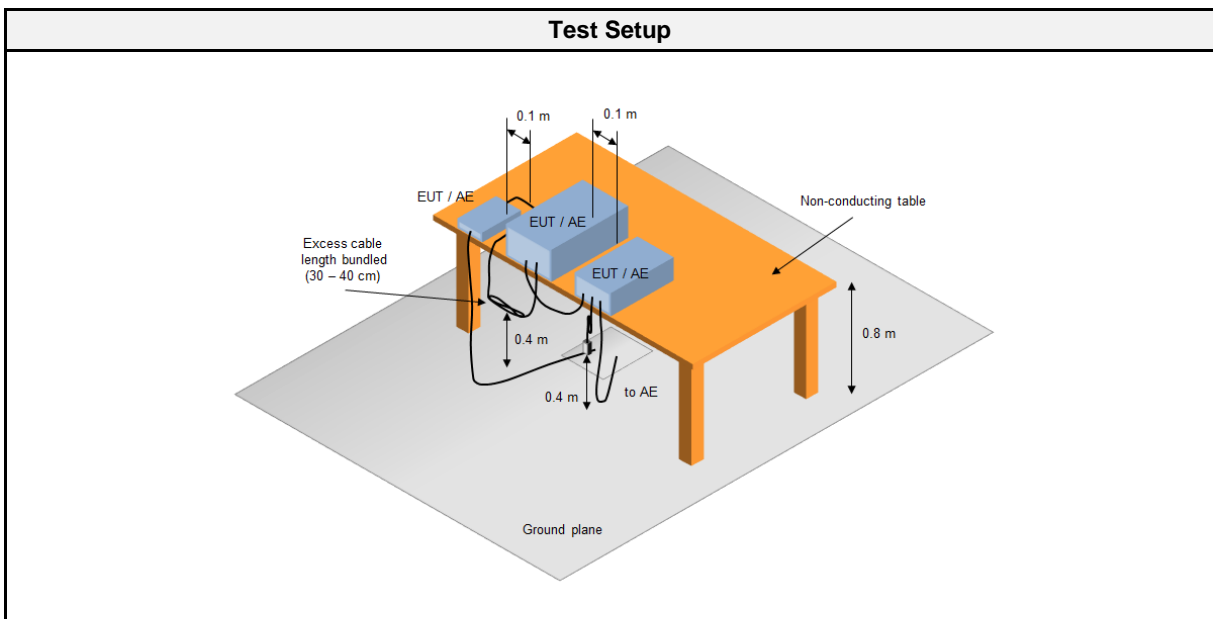
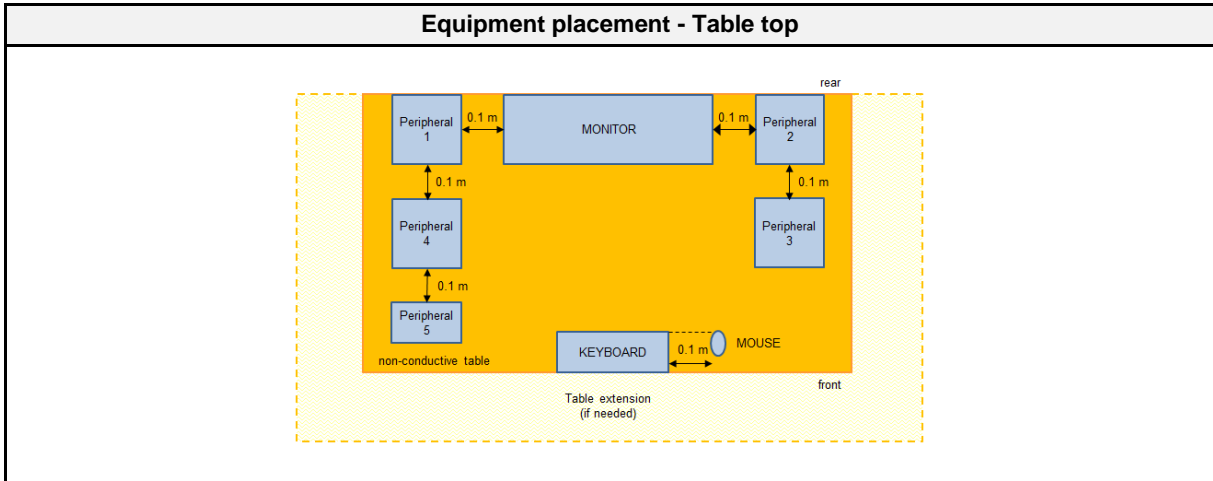
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

| Test Information | |
|----------------------------------|------------------------------|
| Reference | FCC 15.109, ICES-003, 8, 6.1 |
| Reference method | ANSI C63.4:2014 Section 8 |
| Equipment class | Class B |
| Equipment type | Table top |
| Highest internal frequency [MHz] | 2483.5 |
| Measurement range | 30 MHz to 12417.5 MHz |
| Temperature [°C] | 23 C° |
| Humidity [%] | 45 % |
| Operator | Matthias Handrik |
| Date | 2018-08-30 |

2.1.2 Setup





2.1.3 Equipment

| Test Equipment | | | | | |
|------------------|-------------------|-------------------------|------------|---------------------|---------------------|
| Manufacturer | Description | Model | Identifier | Cal. Date | Cal. Due |
| Anechoic chamber | Frankonia | AC1 | EF00200 | functiona l test | functiona l test |
| Keysight | EMI Test Receiver | N9038A- 526/WXP | EF01070 | 2017-08 | 2018-08 |
| R&S | Biconical Antenna | HK116 | EF00203 | 2018-06 | 2020-06 |
| R&S | LPD Antenna | HL 223 | EF00187 | 2016-05 | 2019-05 |
| Schwarzbeck | Horn Antenna | BBHA 9120D (1-18GHz) | EF00018 | 2016-09 | 2019-09 |

2.1.4 Procedure

| Exploratory measurement | |
|--------------------------------|--|
| 1. | The EUT was placed on a non-conductive table at a height of 0.8m. |
| 2. | The EUT and support equipment, if needed, were set up to simulate typical usage. |
| 3. | Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage. |
| 4. | The antenna was placed at a distance of 3 or 10 m. |
| 5. | The received signal was monitored at the measurement receiver. |
| 6. | This procedure has to be performed in both antenna polarizations, horizontal and vertical. |
| 7. | The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 1.3 |

| Final measurement | |
|--------------------------|---|
| 1. | The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver. |
| 2. | A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast. |
| 3. | The EUT and cable arrangement were based on the exploratory measurement results. |
| 4. | Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded. |
| 5. | The test data of the worst-case conditions were recorded and shown on the next pages. |

2.1.5 Limits

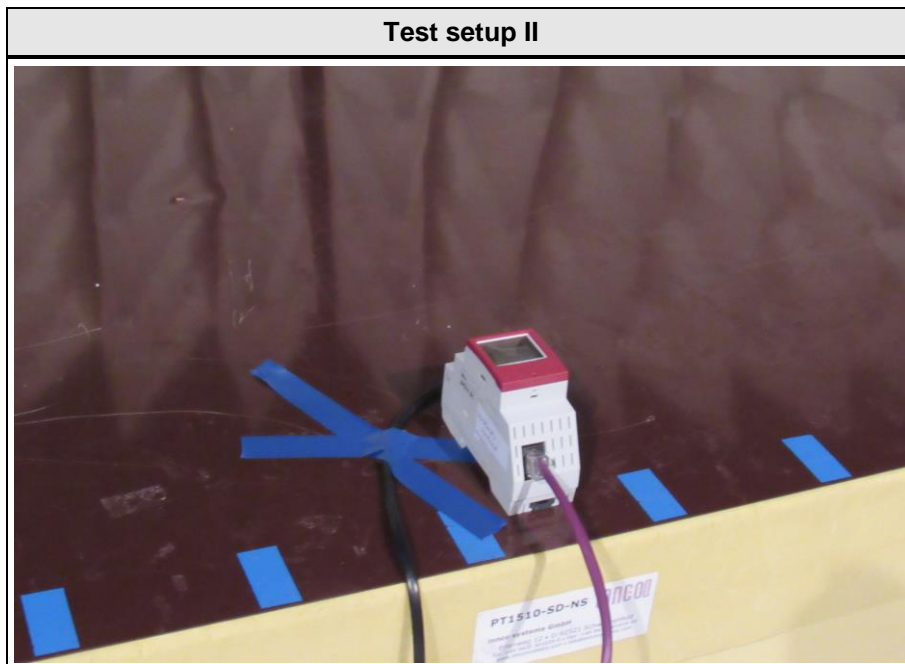
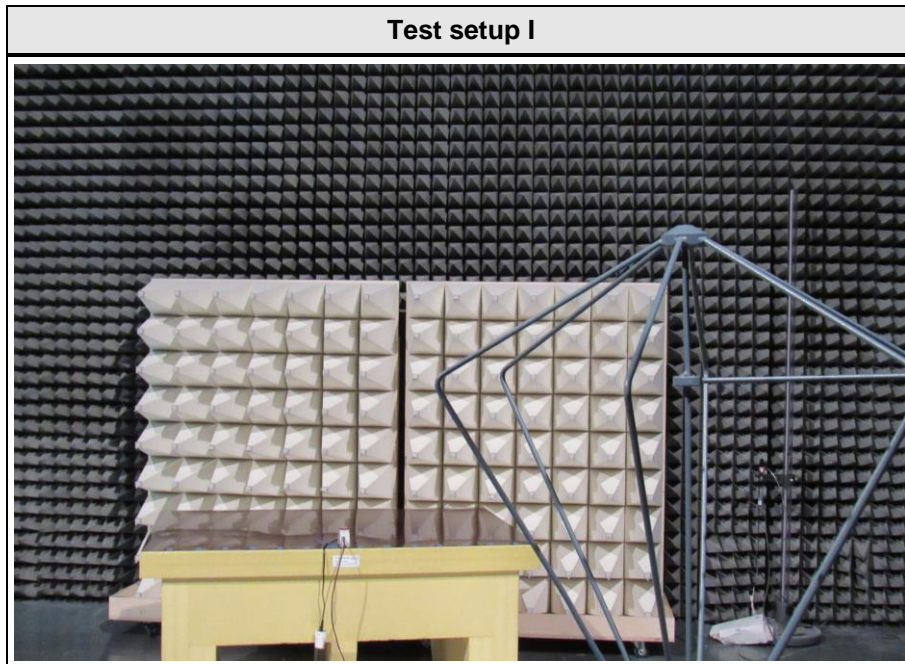
| Class B @ 3 m | | |
|----------------------|-----------------|----------------|
| Frequency [MHz] | Detector | Limit [dBµV/m] |
| 30 - 88 | Quasi-peak | 40 |
| 88 - 216 | Quasi-peak | 43.5 |
| 216 - 960 | Quasi-peak | 46 |
| 960 - 1000 | Quasi-peak | 54 |
| > 1000 | Peak Average | 74 54 |

| Class A @ 10 m | | |
|-----------------------|-----------------|----------------|
| Frequency [MHz] | Detector | Limit [dBµV/m] |
| 30 - 88 | Quasi-peak | 39 |
| 88 - 216 | Quasi-peak | 43.5 |
| 216 - 960 | Quasi-peak | 46.5 |
| 960 - 1000 | Quasi-peak | 49.5 |
| > 1000 | Peak Average | 69.5 49.5 |

2.1.6 Results

| Test Results | | | |
|---------------------|-------------------|---------|--------|
| Operational mode | EUT Configuration | Verdict | Remark |
| 1 | 1 | PASS | |

2.1.7 Setup Photos



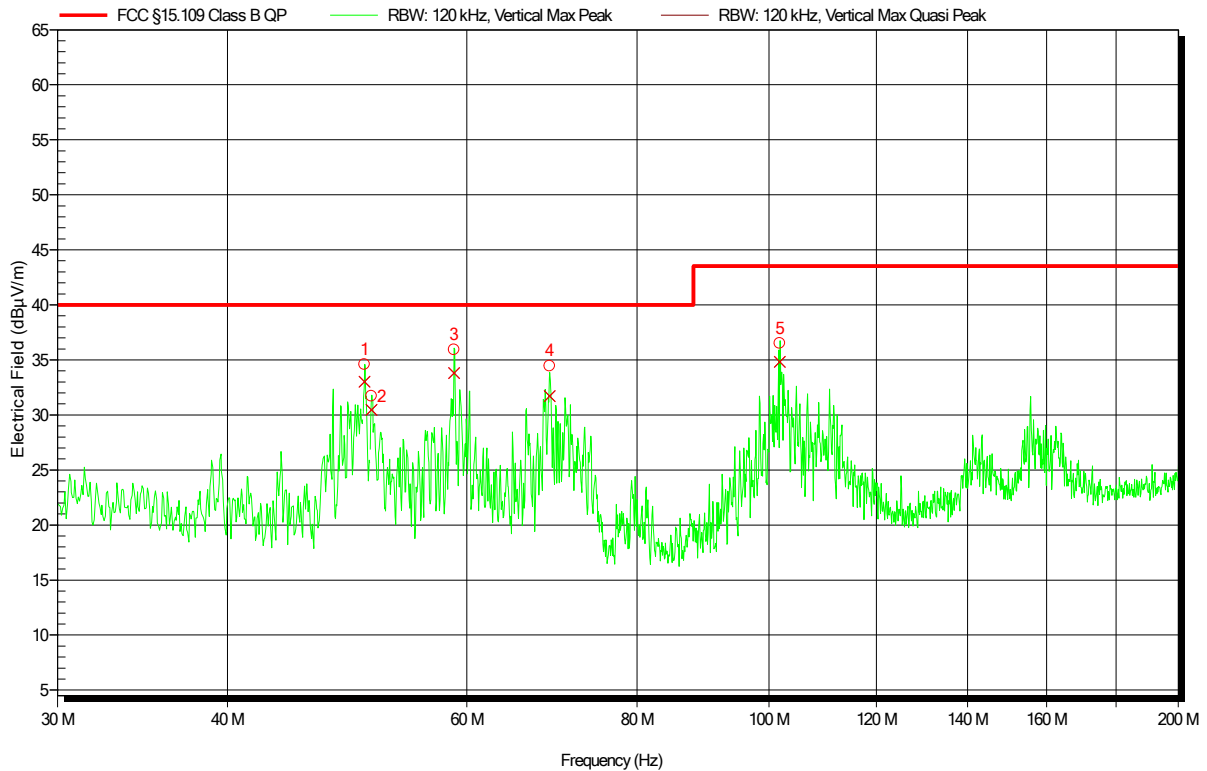
2.1.8 Records

Radiated emissions under normal conditions according to FCC part 15B

Project number: G0M-1803-7264

Applicant: Grässlin GmbH
 EUT Name: 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module
 Model: talento smart LAN
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Unom: 115 VAC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3m
 Mode: mode# 1
 Test Date: 2018-08-30
 Note:

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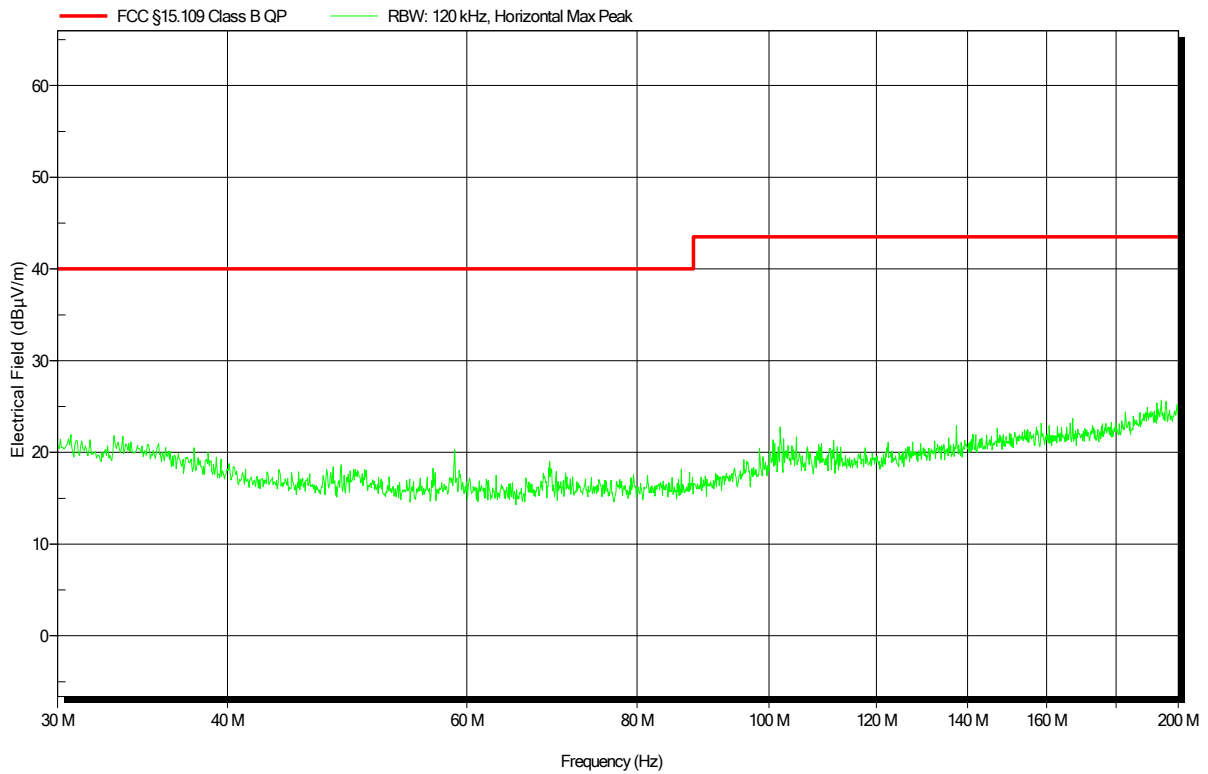
| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|-------------|-------------|--------------|------------------|-----------------------|-------------------|------------|--------|
| 1 | 50.448 MHz | 33.01 dBµV/m | 40 dBµV/m | -6.99 dB | Pass | -16 Degree | 1 m |
| 2 | 51.054 MHz | 30.46 dBµV/m | 40 dBµV/m | -9.54 dB | Pass | -16 Degree | 1 m |
| 3 | 58.71 MHz | 33.81 dBµV/m | 40 dBµV/m | -6.19 dB | Pass | -16 Degree | 1 m |
| 4 | 69 MHz | 31.7 dBµV/m | 40 dBµV/m | -8.3 dB | Pass | -16 Degree | 1 m |
| 5 | 101.886 MHz | 34.83 dBµV/m | 43.52 dBµV/m | -8.69 dB | Pass | -16 Degree | 1 m |

Radiated emissions under normal conditions according to FCC part 15B

Project number: G0M-1803-7264

Applicant: Grässlin GmbH
 EUT Name: 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module
 Model: talento smart LAN
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Unom: 115 VAC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3m
 Mode: mode# 1
 Test Date: 2018-08-30
 Note:

Index 8

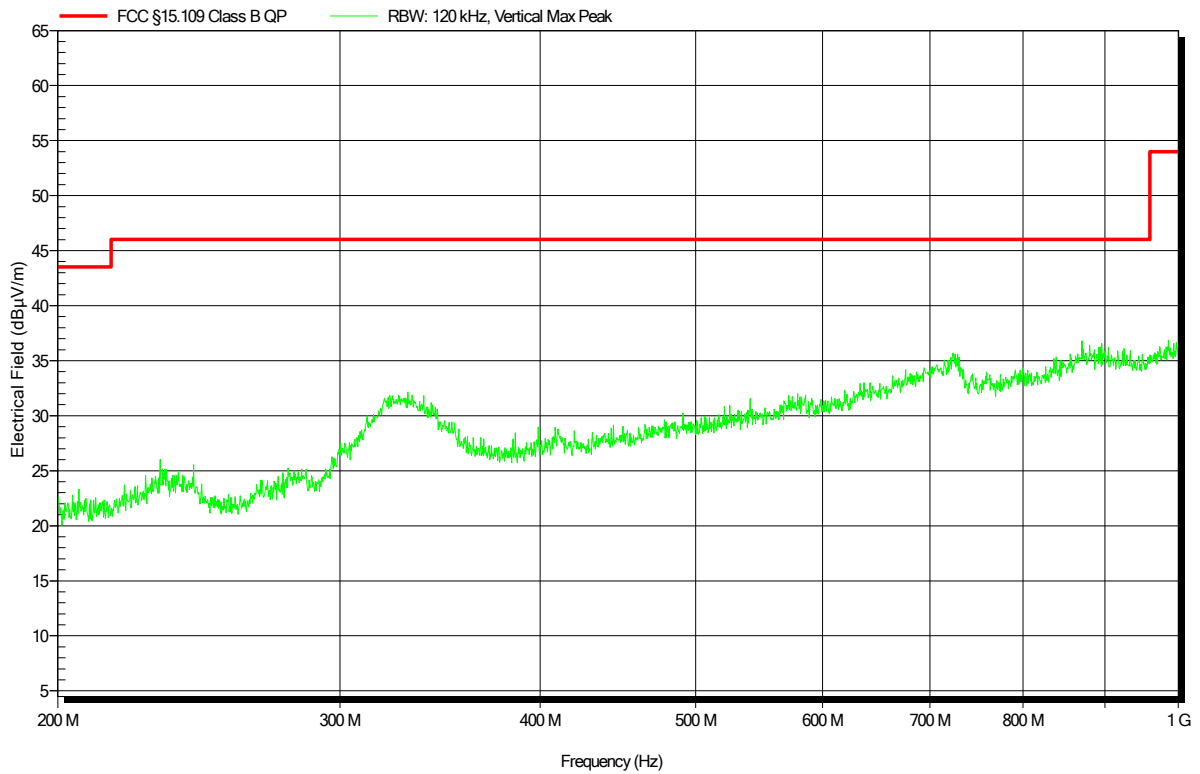


Radiated emissions under normal conditions according to FCC part 15B

Project number: G0M-1803-7264

Applicant: Grässlin GmbH
 EUT Name: 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module
 Model: talento smart LAN
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Unom: 115 VAC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3m
 Mode: mode# 1
 Test Date: 2018-08-30
 Note:

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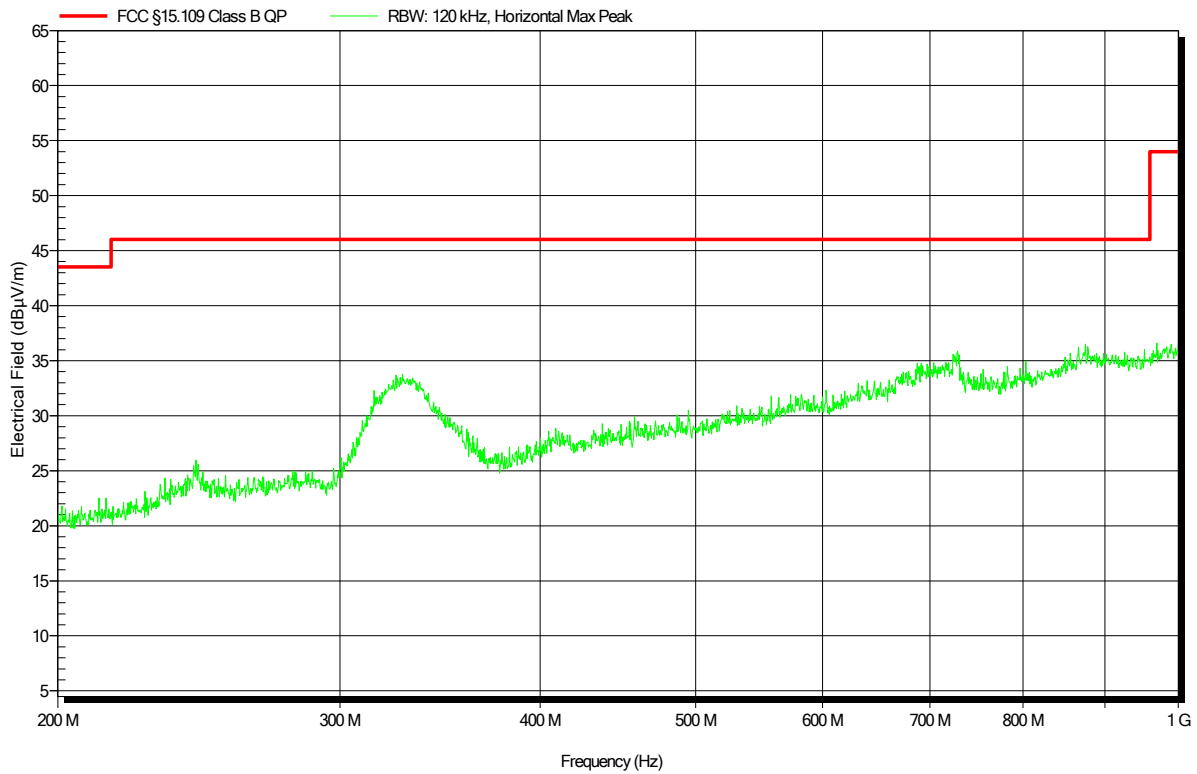


Radiated emissions under normal conditions according to FCC part 15B

Project number: G0M-1803-7264

Applicant: Grässlin GmbH
 EUT Name: 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module
 Model: talento smart LAN
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Unom: 115 VAC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3m
 Mode: mode# 1
 Test Date: 2018-08-30
 Note:

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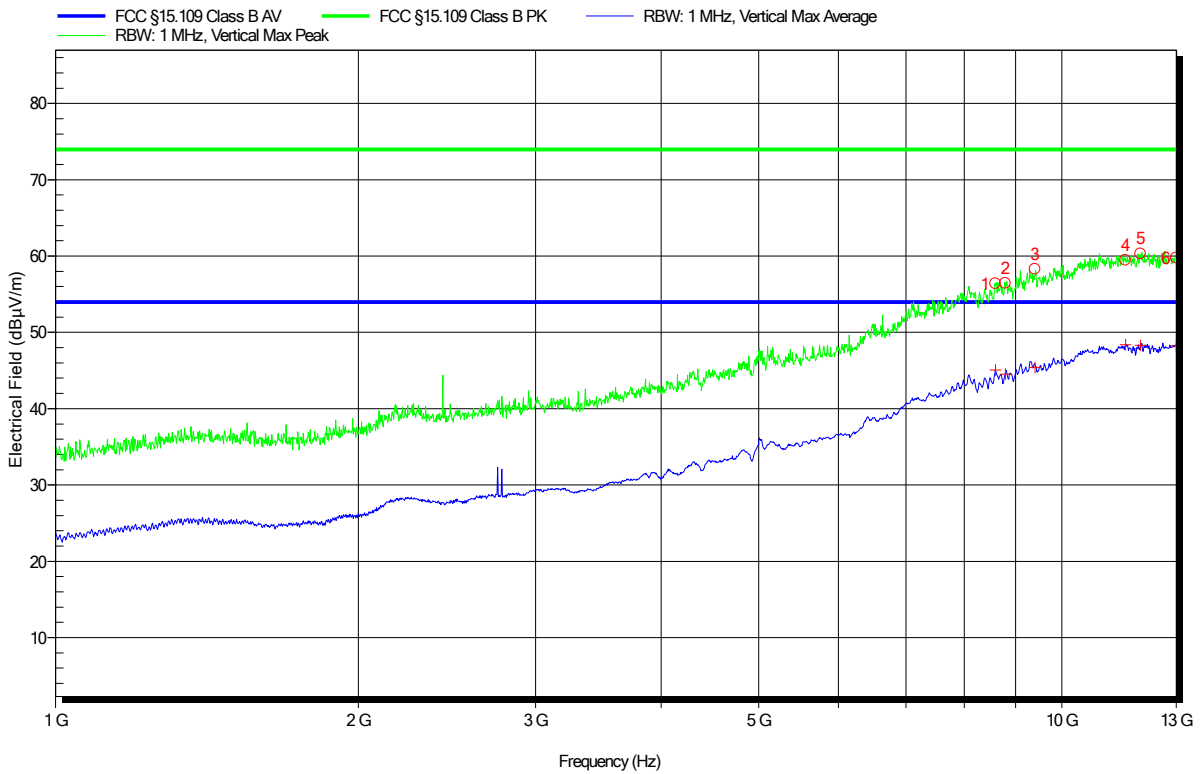


Radiated emissions under normal conditions according to FCC part 15B

Project number: G0M-1803-7264

Applicant: Grässlin GmbH
 EUT Name: 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module
 Model: talento smart LAN
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Unom: 115 VAC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3m
 Mode: mode# 1
 Test Date: 2018-08-30
 Note:

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| Peak Number | Frequency | Peak | Angle | Height |
|-------------|------------|--------------|----------|--------|
| 1 | 8.592 GHz | 56.41 dBµV/m | 0 Degree | 1 m |
| 2 | 8.789 GHz | 56.45 dBµV/m | 0 Degree | 1 m |
| 3 | 9.41 GHz | 58.28 dBµV/m | 0 Degree | 1 m |
| 4 | 11.572 GHz | 59.48 dBµV/m | 0 Degree | 1 m |
| 5 | 11.977 GHz | 60.32 dBµV/m | 0 Degree | 1 m |
| 6 | 13 GHz | 59.73 dBµV/m | 0 Degree | 1 m |

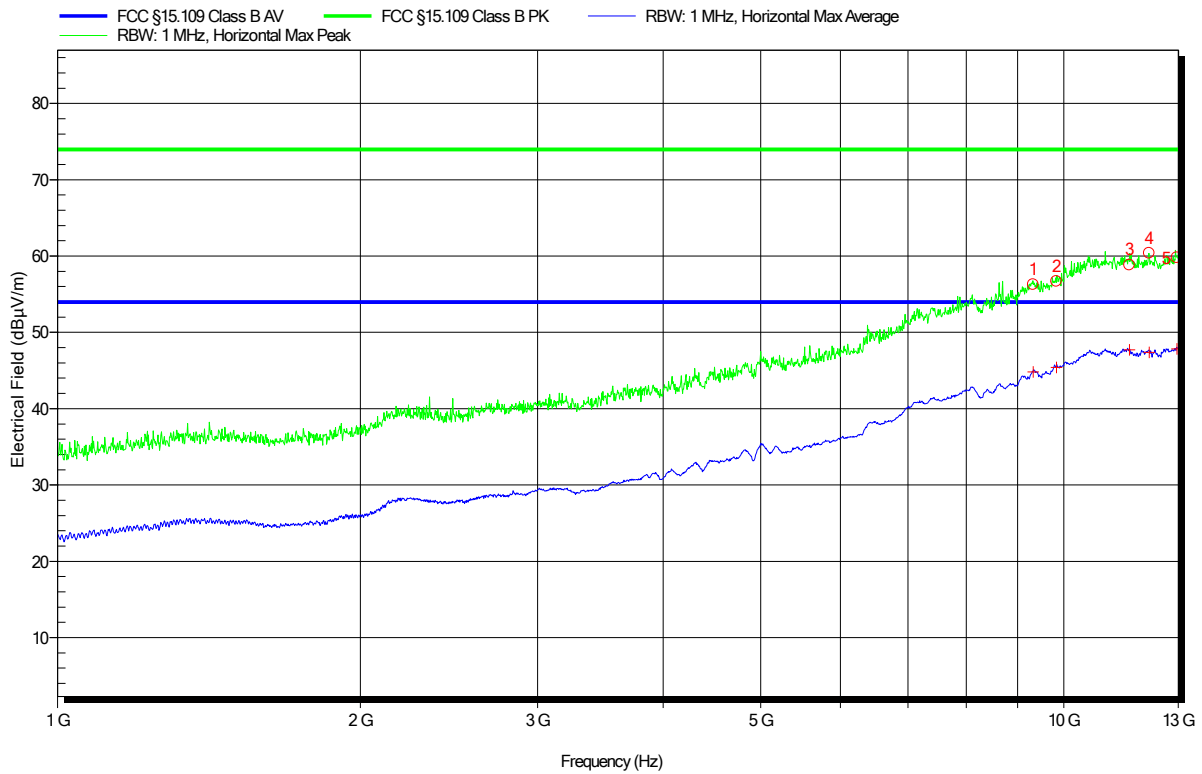
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|-------------|------------|--------------|---------------|--------------------|----------------|----------|--------|
| 1 | 8.592 GHz | 45.08 dBµV/m | 53.98 dBµV/m | -8.89 dB | Pass | 0 Degree | 1 m |
| 2 | 8.789 GHz | 44.51 dBµV/m | 53.98 dBµV/m | -9.47 dB | Pass | 0 Degree | 1 m |
| 3 | 9.41 GHz | 45.4 dBµV/m | 53.98 dBµV/m | -8.58 dB | Pass | 0 Degree | 1 m |
| 4 | 11.572 GHz | 48.38 dBµV/m | 53.98 dBµV/m | -5.6 dB | Pass | 0 Degree | 1 m |
| 5 | 11.977 GHz | 48.32 dBµV/m | 53.98 dBµV/m | -5.66 dB | Pass | 0 Degree | 1 m |
| 6 | 13 GHz | 48.23 dBµV/m | 53.98 dBµV/m | -5.75 dB | Pass | 0 Degree | 1 m |

Radiated emissions under normal conditions according to FCC part 15B

Project number: G0M-1803-7264

Applicant: Grässlin GmbH
 EUT Name: 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module
 Model: talento smart LAN
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Unom: 115 VAC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3m
 Mode: mode# 1
 Test Date: 2018-08-30
 Note:

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| Peak Number | Frequency | Peak | Angle | Height |
|-------------|------------|--------------|----------|--------|
| 1 | 9.328 GHz | 56.26 dBµV/m | 0 Degree | 1 m |
| 2 | 9.838 GHz | 56.7 dBµV/m | 0 Degree | 1 m |
| 3 | 11.621 GHz | 58.82 dBµV/m | 0 Degree | 1 m |
| 4 | 12.156 GHz | 60.37 dBµV/m | 0 Degree | 1 m |
| 5 | 12.96 GHz | 59.78 dBµV/m | 0 Degree | 1 m |

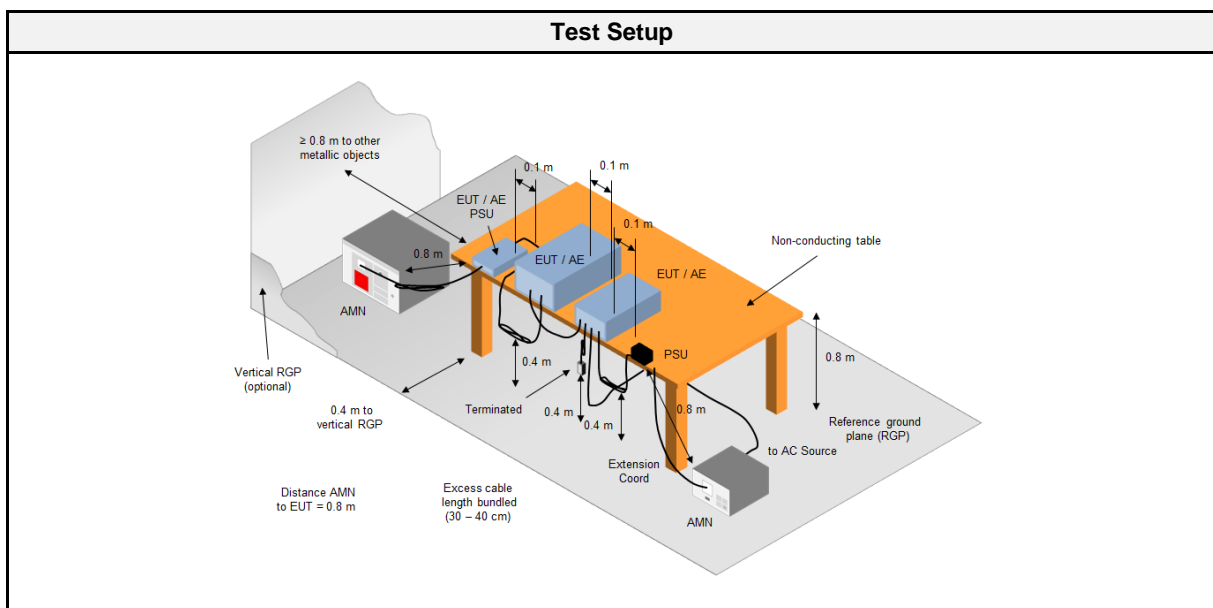
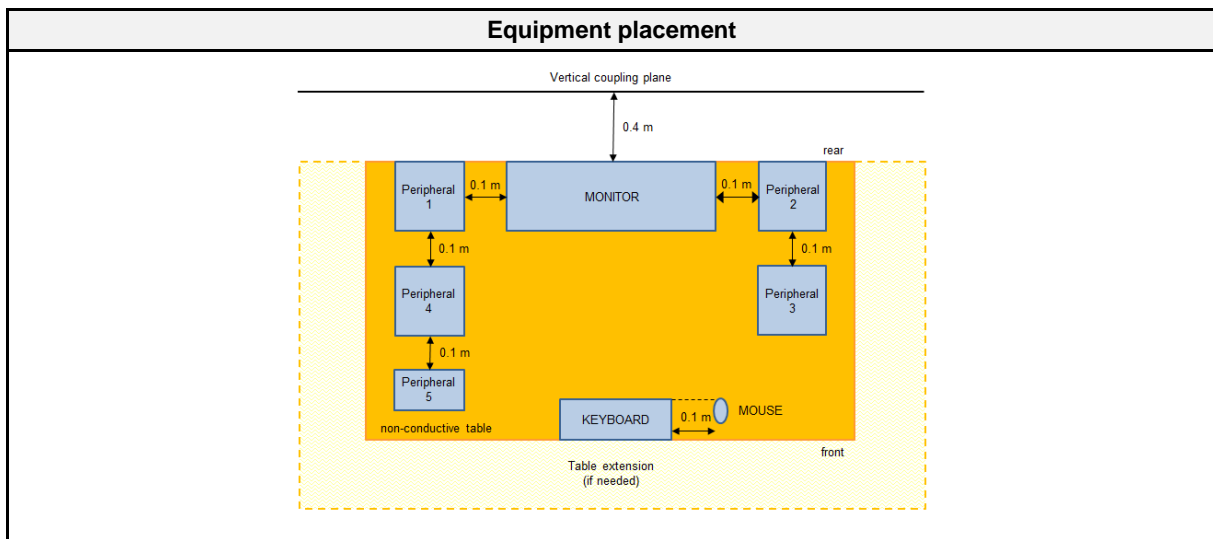
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|-------------|------------|--------------|---------------|--------------------|----------------|----------|--------|
| 1 | 9.328 GHz | 44.83 dBµV/m | 53.98 dBµV/m | -9.15 dB | Pass | 0 Degree | 1 m |
| 2 | 9.838 GHz | 45.4 dBµV/m | 53.98 dBµV/m | -8.58 dB | Pass | 0 Degree | 1 m |
| 3 | 11.621 GHz | 47.73 dBµV/m | 53.98 dBµV/m | -6.25 dB | Pass | 0 Degree | 1 m |
| 4 | 12.156 GHz | 47.39 dBµV/m | 53.98 dBµV/m | -6.59 dB | Pass | 0 Degree | 1 m |
| 5 | 12.96 GHz | 47.85 dBµV/m | 53.98 dBµV/m | -6.13 dB | Pass | 0 Degree | 1 m |

2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

2.2.1 Information

| Test Information | |
|-------------------|------------------------------|
| Reference | FCC 15.107, ICES-003, 8, 6.2 |
| Reference method | ANSI C63.4:2014 Section 12 |
| Measurement range | 150 kHz to 30 MHz |
| Equipment class | Class B |
| Equipment type | Table top |
| Temperature [°C] | 25 C° |
| Humidity [%] | 46 % |
| Operator | Matthias Handrik |
| Date | 2018-08-21 |

2.2.2 Setup



2.2.3 Equipment

| Test Equipment | | | | | |
|----------------|-------------------|---------|------------|-----------|----------|
| Manufacturer | Description | Model | Identifier | Cal. Date | Cal. Due |
| R&S | AMN | ESH2-Z5 | EF00182 | 2017-01 | 2019-01 |
| R&S | Pulse Limiter | ESH3-Z2 | EF01063 | 2018-07 | 2019-07 |
| R&S | EMI Test Receiver | ESR 7 | EF00943 | 2018-07 | 2019-07 |

2.2.4 Procedure

| Exploratory measurement |
|--|
| <ol style="list-style-type: none"> The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). The LISN measurement port was connected to a measurement receiver I/O cables were bundled not longer than 0.4 m Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor To maximize the emissions the cable positions were manipulated The worst configuration of EUT and cables is shown on a test setup picture at item 1.3 |

| Final measurement |
|--|
| <ol style="list-style-type: none"> The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). The LISN measurement port was connected to a measurement receiver The EUT and cable arrangement were based on the exploratory measurement results The test data of the worst-case conditions were recorded and shown on the next pages |

2.2.5 Limits

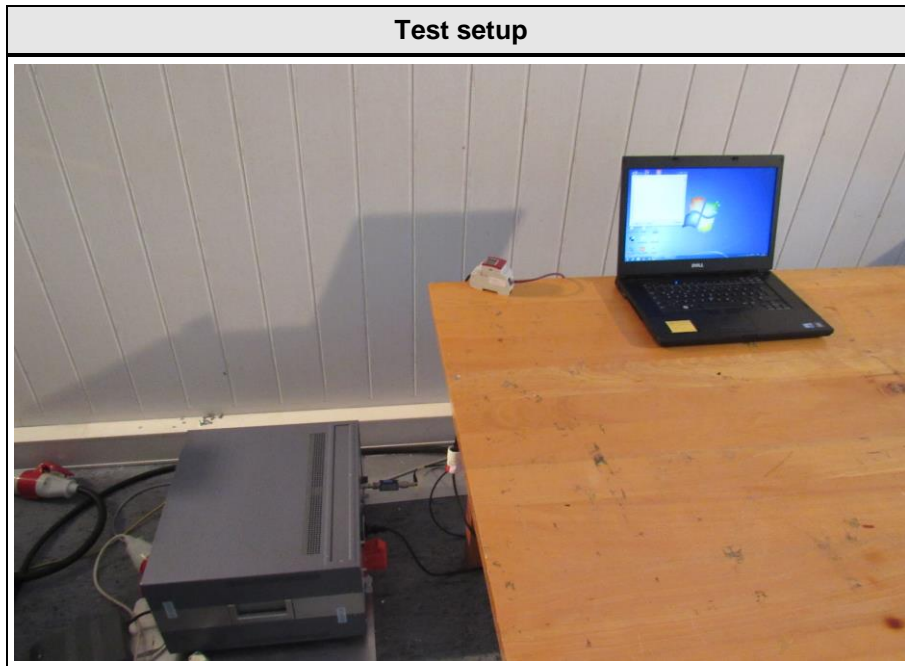
| Class B | | |
|-----------------|-------------------------|----------------------|
| Frequency [MHz] | Quasi-peak Limit [dBµV] | Average Limit [dBµV] |
| 0.15 - 0.5 | 66 - 56 * | 56 - 46 * |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

* Decreases with the logarithm of the frequency

2.2.6 Results

| AC power line conducted emissions | | | | | |
|-----------------------------------|----------|------------------|-------------------|---------|--------|
| Port | Coupling | Operational mode | EUT Configuration | Verdict | Remark |
| Power | AMN | 1 | 1 | PASS | |

2.2.7 Setup Photos



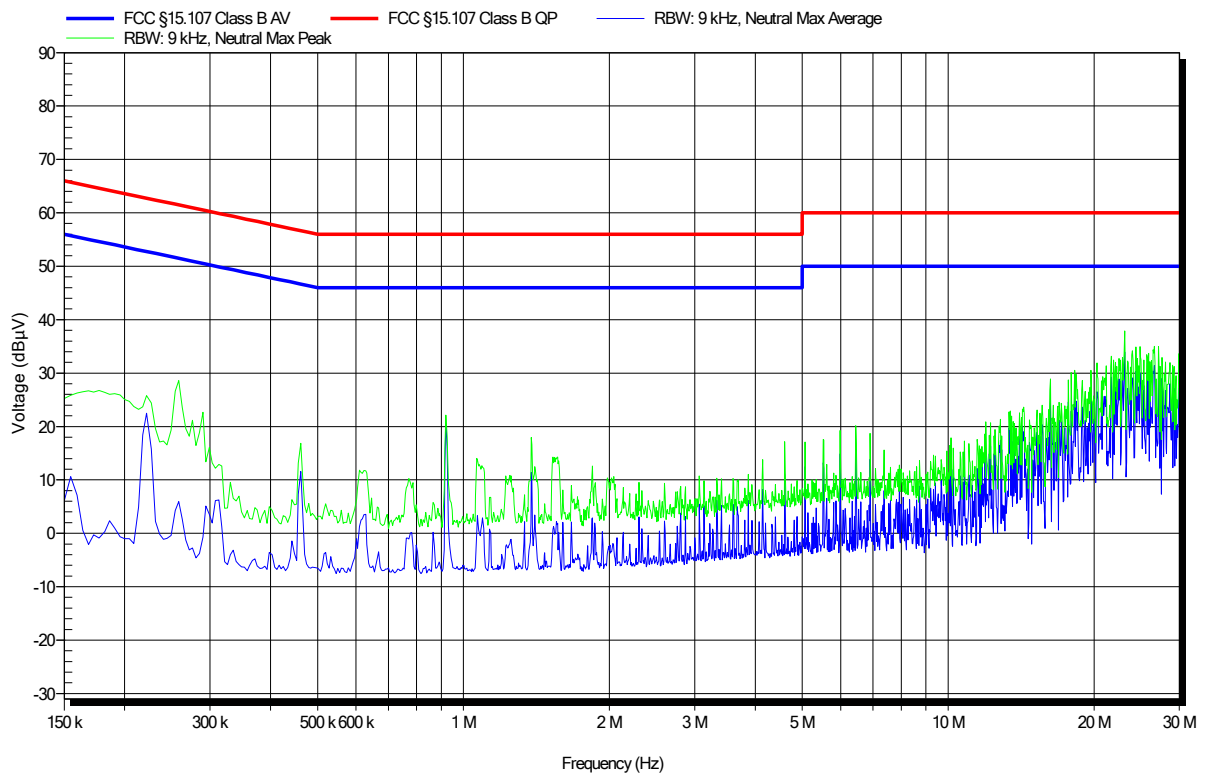
2.2.8 Records

EMI voltage test in the ac-mains according to FCC part 15B

Project number: G0M-1803-7264

| | |
|------------------|---|
| Applicant: | Grässlin GmbH |
| EUT Name: | 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module |
| Model: | talento smart LAN |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Conditions: | Tnom: 25°C, Unom: 115 VAC |
| LISN: | ESH2-Z5 N |
| Mode: | Mode 1 |
| Test Date: | 2018-08-21 |
| Note: | |

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EMI voltage test in the ac-mains according to FCC part 15B

Project number: G0M-1803-7264

Applicant: Grässlin GmbH
 EUT Name: 115 VAC LAN-Gateway for Timer Switch with integrated BLE-Module
 Model: talento smart LAN
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 25°C, Unom: 115 VAC
 LISN: ESH2-Z5 L
 Mode: Mode 1
 Test Date: 2018-08-21
 Note:

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