

| | RADIO REPORT | | | |
|--|---|--|--|--|
| FCC 47 CFR Part 15 | | | | |
| Wireless Power Transfer Devices | | | | |
| Report Reference No G0M-1801-7169-TFC209WC-V01 | | | | |
| Testing Laboratory | Eurofins Product Service GmbH | | | |
| Address | Storkower Str. 38c 15526 Reichenwalde Germany | | | |
| Accreditation | A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Test Firm Designation Number: DE0008 IC Testing Laboratory site: 3470A-2 | | | |
| Applicant | Dräger Safety AG & Co. KGaA | | | |
| Address | Revalstraße 1 23560 Lübeck GERMANY | | | |
| Test Specification | According to FCC/ISED rules | | | |
| Standard | 47 CFR Part 15/18 FCC MP-5:1986 ANSI C63.10:2013 | | | |
| Non-Standard Test Method | None | | | |
| Test Scope | Full compliance test | | | |
| Equipment under Test (EUT): | | | | |
| Product Description | Inductive Charger | | | |
| Model(s) | Induktive Power Unit | | | |
| Additional Model(s) | None | | | |
| Brand Name(s) | Dräger | | | |
| Hardware Version(s) | 8325825 | | | |
| Software Version(s) | 8325897 | | | |
| FCC-ID | X6O-IC001 | | | |
| Test Result | PASSED | | | |

Test Report No.: G0M-1801-7169-TFC209WC-V01



| Possible test case verdicts: | | | |
|--|---|------------------------------------|--|
| required by standard but not tested | | N/T | |
| not required by standard | | N/R | |
| not applicable to EUT | | N/A | |
| test object does meet the requirement | | P(PASS) | |
| test object does not meet the requirement | 3 | F(FAIL) | |
| Testing: | | | |
| Test Lab Temperature | | 20 - 23 °C | |
| Test Lab Humidity | | 32 – 38 % | |
| Date of receipt of test item | | 2018-06-06 | |
| Report: | | I | |
| Compiled by | Christian Weber | | |
| Tested by (+ signature) (Responsible for Test) | Christian Weber | | C. Loeber |
| Approved by (+ signature) (Deputy Head of Lab) | Toralf Jahn | | 7.2 |
| Date of Issue | 2019-01-07 | | |
| Total number of pages | 34 | | |
| General Remarks: | | | |
| The test results presented in this report The results contained in this report refithe responsibility of the manufacturer trequirements detailed within this report This report shall not be reproduced, excepted Additional Comments: | lect the results fo to ensure that all t. | or this particula production me | ar model and serial number. It is odels meet the intent of the |



VERSION HISTORY

| Version History | | | |
|---------------------------------------|--|--|--|
| Version Issue Date Remarks Revised By | | | |
| 01 2019-01-07 Initial Release | | | |



ABBREVIATIONS AND ACRONYMS

| | Acronyms | | |
|-----------|---|--|--|
| Acronym | Description | | |
| EUT | Equipment Under Test | | |
| FCC | Federal Communications Commission | | |
| ISED | Innovation, Science and Economic Development Canada | | |
| RBW | Resolution bandwidth | | |
| RMS | Root mean square | | |
| VBW | Video bandwidth | | |
| V_{NOM} | Nominal supply voltage | | |



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1 Equipment (Test Item) Under Test

| Description | Inductive Charger | | |
|----------------------------------|---|-----------------------------------|--|
| Model | Induktive Power Unit | | |
| Additional Model(s) | None | | |
| Brand Name(s) | Dräger | | |
| Serial Number(s) | Unspecified | | |
| Hardware Version(s) | 8325825 | | |
| Software Version(s) | 8325897 | | |
| FCC-ID | X6O-IC001 | | |
| WPT Source Subassembly | Type 3 | | |
| WPT Client Subassembly | No | | |
| Wireless Module | No | | |
| Radio technology | Communiction inter | rface for wireless power transfer | |
| Operating frequency | 2 MHz | | |
| Modulation | ASK (Load modulation by client device) | | |
| Highest internal frequency [MHz] | 50 | | |
| Supply Voltage | V _{NOM} 24 VDC (10 – 30 VDC) | | |
| Operating Temperature | T _{NOM} 25 °C | | |
| | Model | GT-41076-0612 | |
| AC/DC-Adaptor 1 | Vendor | Dräger | |
| AC/DC-Adaptor 1 | Input | 100-240 VAC / 50-60 Hz / 0.3A | |
| | Output | 12 VDC / 0.5 A | |
| | Model | GT-43004P15024-T3 | |
| AC/DC-Adaptor 2 | Vendor | Dräger | |
| AC/DC-Adaptor 2 | Input | 100-240 VAC / 50-60 Hz / 2A | |
| | Output | 24 VDC / 6.25 A | |
| Manufacturer | Dräger Safety AG & Co. KGaA Revalstraße 1 23560 Lübeck GERMANY | | |



1.1 Photos – Equipment External















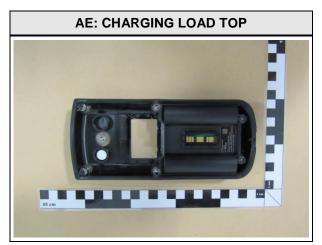






















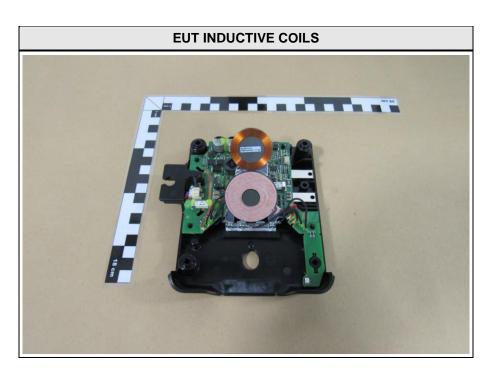


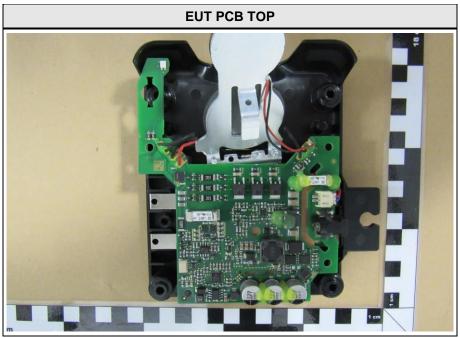




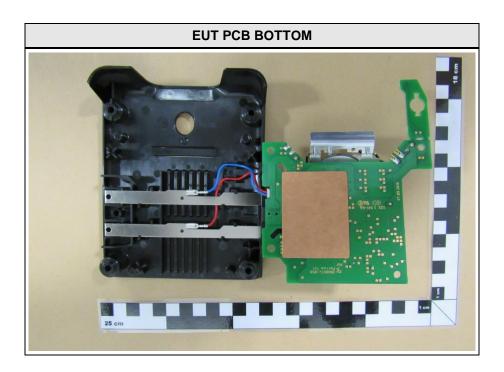


1.2 Photos – Equipment Internal



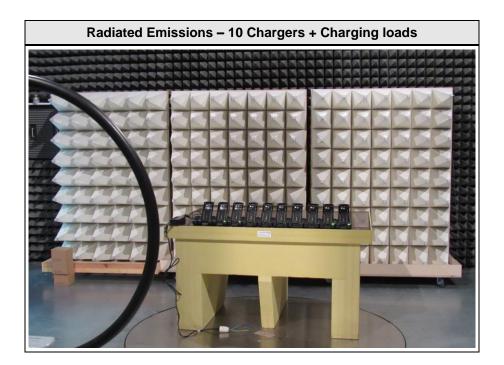




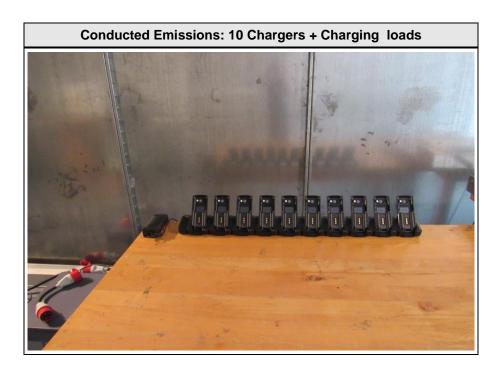


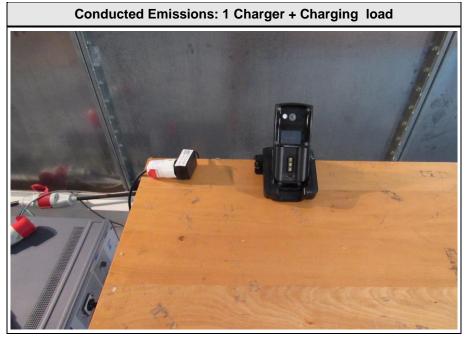


1.3 Photos – Test Setup

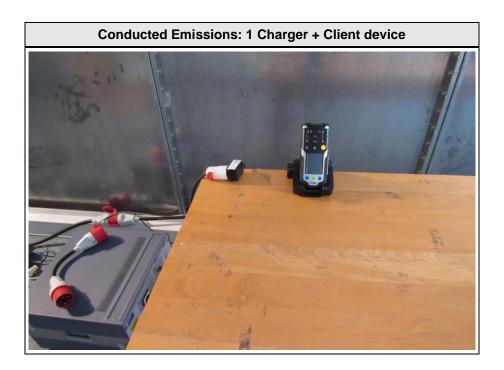














1.4 Support Equipment

| Product Type | Device | Manufacturer | Model | Comment |
|--------------|---------------------|--------------|-----------------------|----------------------------|
| AE | Charging load | Dräger | LBT 0200 power supply | |
| AE | Client Device | Dräger | X-am 8000 | With LBT 0200 power supply |
| Description: | | | | |
| AE | Auxiliary Equipment | | | |
| SIM | Simulator | | | |
| CBL | Connecting Cable | | | |
| Comment: | | | | |



1.5 Test Modes

| Mode | Description |
|------------|--|
| Charging 1 | Mode = Transmit Modulation = ASK (Load modulation from client device) Duty cycle = 100 % 10 cascaded chargers with charging loads |
| Charging 2 | Mode = Transmit Modulation = ASK (Load modulation from client device) 1 charger with charging loads |
| Charging 3 | Mode = Transmit Modulation = ASK (Load modulation from client device) Duty cycle = 100 % 1 charger with client device |
| Comment: | |

Pre-tests were performed in order to determine the worst case emissions for a combination of up to 20 chargers supplied by a single ac/dc-adaptor. The combination of 10 chargers gave the worst case and is reported as worst case radiated emission case. For ac power line conducted emissions all three configurations (single charger with adaptor 1 and load, single charger with adaptor 1 and client and 10 chargers with adaptor 2 and loads) are reported



1.6 Test Frequencies

| Designator | Mode | Channel | Frequency [MHz] |
|------------|-------|---------|-----------------|
| F1 | Tx/Rx | 0 | 2 |

Test Report No.: G0M-1801-7169-TFC209WC-V01



2 Result Summary

| FCC KDB 680106 D01, 47 CFR Part 15 | | | | |
|------------------------------------|-----------------------------------|---------------------|--------|---------|
| Product Standard Reference | Requirement | Reference Method | Result | Remarks |
| FCC KDB 680106 FCC 15.209 | Wireless field strength emissions | ANSI C63.10:2013 | PASS | |
| FCC KDB 680106 FCC 15.207 | Wireless conducted emissions | ANSI C63.10:2013 | 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 |



3 Test Conditions and Results

3.1 Test Conditions and Results - Wireless radiated field strength emissions

3.1.1 Information

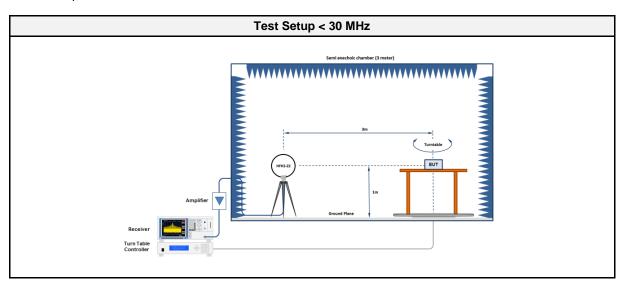
| Test Information | | |
|----------------------------|---------------------------------|--|
| Product Standard Reference | FCC KDB 680106, FCC Part 15.209 | |
| Measurement Method | ANSI C63.10 | |
| Operator | Christian Weber | |
| Mode | Charging 1 | |
| Date | 2018-09-17 | |

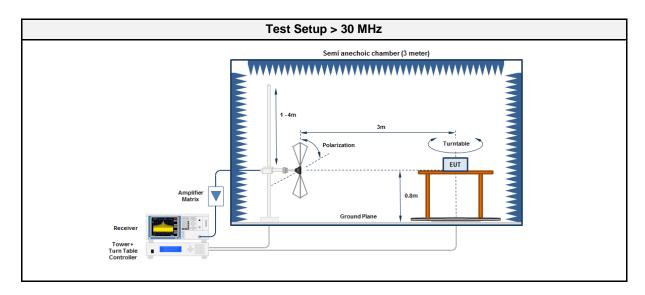
3.1.2 Limits

| Limits | | | | | | | |
|--------------------------|------------|--------------|----------------|--------------------|--|--|--|
| Frequency range [MHz] | Detector | Limit [µV/m] | Limit [dBµV/m] | Limit Distance [m] | | | |
| 0.009 - 0.490 | Quasi-Peak | 2400/F[kHz] | 48.5 - 13.8 | 300 | | | |
| 0.490 - 1.705 | Quasi-Peak | 24000/F[kHz] | 33.8 - 23 | 30 | | | |
| 1.705 -30 | Quasi-Peak | 30 | 29.5 | 30 | | | |
| 30 - 88 | Quasi-Peak | 100 | 40 | 3 | | | |
| 88 - 216 | Quasi-Peak | 150 | 43.5 | 3 | | | |
| 216 - 960 | Quasi-Peak | 200 | 46 | 3 | | | |
| 960 - 1000 | Quasi-Peak | 500 | 54 | 3 | | | |

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. Radiatedemission limits in these three bands are based on measurements employing an average detector

3.1.3 Setup





3.1.4 Equipment

| Test Software | | | | | |
|-------------------------------------|------------------|------------|----------|--|--|
| Description Manufacturer Name Versi | | | | | |
| EMC Software | DARE Instruments | RadiMation | 2015.2.4 | | |

| Test Equipment < 30 MHz | | | | | | | |
|-------------------------|-----------------------------------|---------|------------|-----------|----------|--|--|
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due | | |
| Anechoic Chamber | Frankonia | AC1 | EF00062 | 2017-02 | 2020-02 | | |
| Loop Antenna | R&S | HFH2-Z2 | EF00184 | 2017-12 | 2019-12 | | |
| EMI Test Receiver | Rohde & Schwarz Vertriebs GmbH | ESR7 | EF00943 | 2018-07 | 2019-07 | | |

| Test Equipment 30 - 1 GHz | | | | | | | |
|---------------------------|-----------------------------------|-------|------------|-----------|----------|--|--|
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due | | |
| Anechoic Chamber | Frankonia | AC1 | EF00062 | 2017-02 | 2020-02 | | |
| Biconical antenna | Rohde & Schwarz Vertriebs GmbH | HK116 | EF00030 | 2016-04 | 2019-04 | | |
| EMI Test Receiver | Rohde & Schwarz Vertriebs GmbH | ESR7 | EF00943 | 2018-07 | 2019-07 | | |
| Antenna | R&S | HL223 | EF00187 | 2016-05 | 2019-05 | | |

3.1.5 Procedure

Test Procedure

- 1. EUT set to test mode
- 2. Span it set according to measurement range
- Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz
- 4. Below 30MHz an extrapolation according ANSI 63.10; 6.4.4.2 is used.
- 5. Markers are set to maximum emission levels



Project number: G0M-1801-7169

Applicant: Dräger Safety AG & Co. KGaA

EUT Name: Inductive Charger Model: Induktive Power Unit

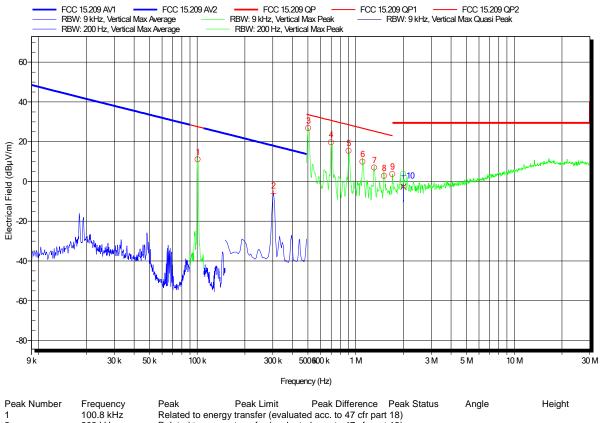
Test Site: Eurofins Product Service GmbH

Operator: Mr. Weber

Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz
Antenna: Rohde & Schwarz HFH 2-Z2, Vertical
Mode: WPT; 10 Chargers + Charging loads

Test Date: 2018-09-17

Note:



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|-------------|-----------|------------------|-----------------------|----------------------|-------------|----------|--------|
| 1 | 100.8 kHz | Related to energ | ıv transfer (evaluate | ed acc. to 47 cfr pa | rt 18) | 3 - | 3 |
| 2 | 303 kHz | | | ed acc. to 47 cfr pa | | | |
| 3 | 503.5 kHz | Related to energ | y transfer (evaluate | ed acc. to 47 cfr pa | rt 18) | | |
| 4 | 701.5 kHz | Related to energ | y transfer (evaluate | ed acc. to 47 cfr pa | rt 18) | | |
| 5 | 904 kHz | Related to energ | y transfer (evaluate | ed acc. to 47 cfr pa | rt 18) | | |
| 6 | 1.106 MHz | Related to energ | y transfer (evaluate | ed acc. to 47 cfr pa | rt 18) | | |
| 7 | 1.309 MHz | Related to energ | y transfer (evaluate | ed acc. to 47 cfr pa | rt 18) | | |
| 8 | 1.511 MHz | Related to energ | y transfer (evaluate | ed acc. to 47 cfr pa | rt 18) | | |
| 9 | 1.705 MHz | Related to energ | y transfer (evaluate | ed acc. to 47 cfr pa | rt 18) | | |
| 10 | 1.997 MHz | 3.78 dBµV/m | 29.5 dBµV/m | -25.72 dB | Pass | 0 Degree | 1 m |
| | | | | | | | |
| Peak Number | Frequency | Quasi-Peak | Quasi-Peak | Quasi-Peak | Quasi-Peak | Angle | Height |
| | | | Limit | Difference | Status | · · | ū |
| 10 | 1.997 MHz | -2.61 dBµV/m | 29.5 dBµV/m | -32.11 dB | Pass | 0 Degree | 1 m |



Project number: G0M-1801-7169

Applicant: Dräger Safety AG & Co. KGaA

EUT Name: Inductive Charger Model: Induktive Power Unit

Test Site: Eurofins Product Service GmbH

Operator: Mr. Weber

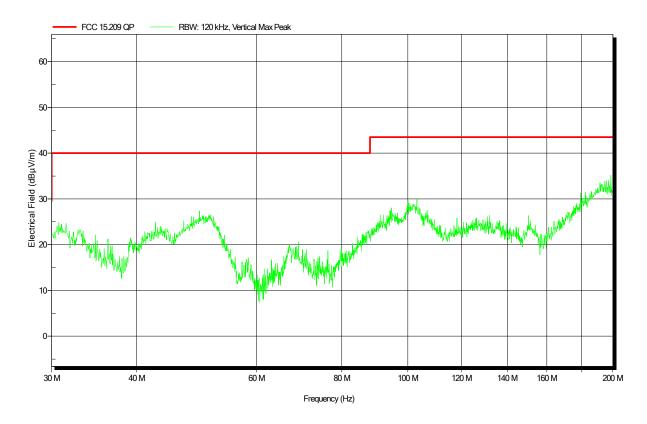
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3 m

Mode: WPT; 10 Chargers + Charging loads

Test Date: 2018-09-17

Note:





Project number: G0M-1801-7169

Applicant: Dräger Safety AG & Co. KGaA

EUT Name: Inductive Charger Model: Induktive Power Unit

Test Site: Eurofins Product Service GmbH

Operator: Mr. Weber

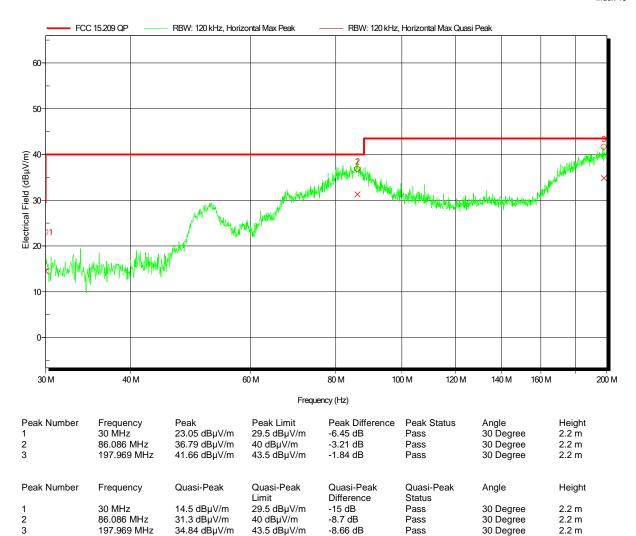
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz Antenna: Rohde & Schwarz HK 116, Horizontal

Measurement distance: 3 m

Mode: WPT; 10 Chargers + Charging loads

Test Date: 2018-09-17

Note:





Project number: G0M-1801-7169

Applicant: Dräger Safety AG & Co. KGaA

EUT Name: Inductive Charger
Model: Induktive Power Unit

Test Site: Eurofins Product Service GmbH

Operator: Mr. Weber

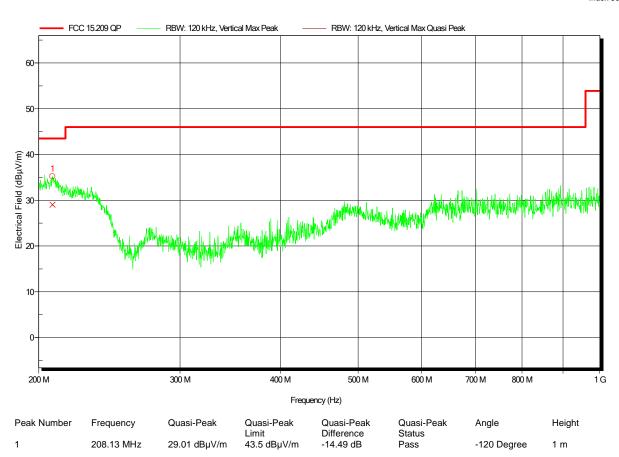
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3 m

Mode: WPT; 10 Chargers + Charging loads

Test Date: 2018-09-17

Note:





Project number: G0M-1801-7169

Applicant: Dräger Safety AG & Co. KGaA

EUT Name: Inductive Charger
Model: Induktive Power Unit

Test Site: Eurofins Product Service GmbH

Operator: Mr. Weber

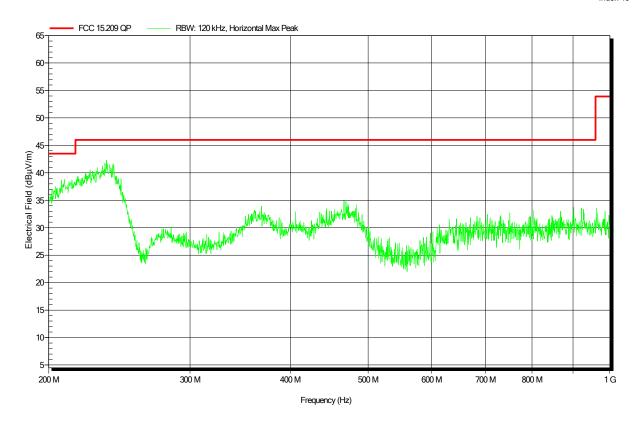
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3 m

Mode: WPT; 10 Chargers + Charging loads

Test Date: 2018-09-17

Note:





3.2 Test Conditions and Results - Wireless ac power line conducted emissions

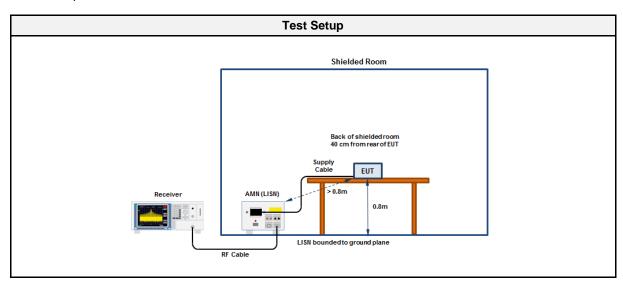
3.2.1 Information

| Test Information | | | |
|--------------------|-------------------------------------|--|--|
| Reference | FCC § 15.207; ISED RSS-Gen, Issue 5 | | |
| Measurement Method | ANSI C63.10 6.2 | | |
| Operator | Christian Weber | | |
| Mode | Charging 1, Charging 2, Charging 3 | | |
| Date | 2018-09-18 | | |

3.2.2 Limits

| Limits | | | | | | |
|--|-------------------|----------------|--|--|--|--|
| Frequency [MHz] | Quasi-Peak [dBµV] | Average [dBµV] | | | | |
| 0.15 - 0.5 | 66 - 56* | 56 - 46* | | | | |
| 0.5 - 5 | 56 | 46 | | | | |
| 5 - 30 60 50 | | | | | | |
| * Limit decreases linearly with the logarithm of the frequency | | | | | | |

3.2.3 Setup



3.2.4 Equipment

| Test Software | | | | | |
|---------------------------------------|------------------|------------|-----------|--|--|
| Description Manufacturer Name Version | | | | | |
| EMC Software | DARE Instruments | RadiMation | 2016.1.10 | | |

| Test Equipment | | | | | | | |
|-------------------|-----------------------------------|---------|------------|-----------|----------|--|--|
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due | | |
| LISN | R&S | ESH2-Z5 | EF00182 | 2017-01 | 2019-01 | | |
| EMI Test Receiver | Rohde & Schwarz Vertriebs GmbH | ESR7 | EF00943 | 2018-07 | 2019-07 | | |
| Pulse Limiter | Rohde & Schwarz Vertriebs GmbH | ESH3-Z2 | EF01063 | 2018-07 | 2019-07 | | |

Test Report No.: G0M-1801-7169-TFC209WC-V01



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EUT Name: Inductive Charger
Model: Induktive Power Unit

Test Site: Eurofins Product Service GmbH

Operator: Mr. Weber

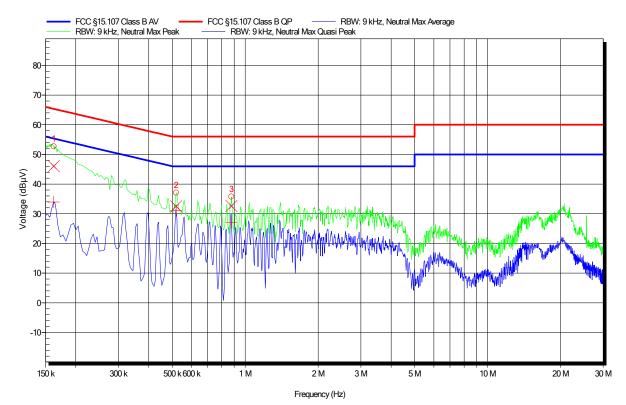
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz

LISN: ESH2-Z5 N

Mode: WPT; 10 Chargers + Charging loads

Test Date: 2018-09-18

Note:



| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status |
|-------------|------------|------------|------------------|--------------------------|-------------------|
| 1 | 162.15 kHz | 46.03 dBµV | 65.35 dBµV | -19.32 dB | Pass |
| 2 | 518.55 kHz | 32.49 dBµV | 56 dBµV | -23.51 dB | Pass |
| 3 | 877.2 kHz | 32.62 dBμV | 56 dBμV | -23.38 dB | Pass |
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status |
| 1 | 162.15 kHz | 33.95 dBµV | 55.35 dBµV | -21.4 dB | Pass |
| 2 | 518.55 kHz | 31.11 dBµV | 46 dBµV | -14.89 dB | Pass |
| 3 | 877.2 kHz | 27.12 dBµV | 46 dBµV | -18.88 dB | Pass |



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Operator: Mr. Weber

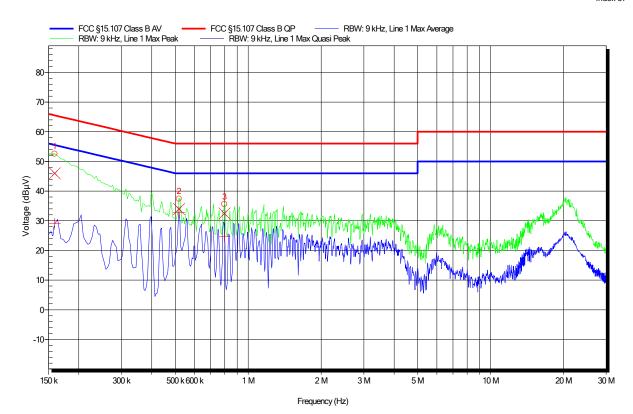
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz

LISN: ESH2-Z5 L

Mode: WPT; 10 Chargers + Charging loads

Test Date: 2018-09-18

Note:



| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status |
|-------------|-----------|------------|------------------|--------------------------|-------------------|
| 1 | 159 kHz | 45.97 dBµV | 65.52 dBµV | -19.54 dB | Pass |
| 2 | 518.1 kHz | 33.94 dBµV | 56 dBµV | -22.06 dB | Pass |
| 3 | 798 kHz | 32.46 dΒμV | 56 dBμV | -23.54 dB | Pass |
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status |
| 1 | 159 kHz | 29 dBµV | 55.52 dBµV | -26.51 dB | Pass |
| 2 | 518.1 kHz | 32.83 dBµV | 46 dBµV | -13.17 dB | Pass |
| 3 | 798 kHz | 24.77 dBμV | 46 dBμV | -21.23 dB | Pass |



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Operator: Mr. Weber

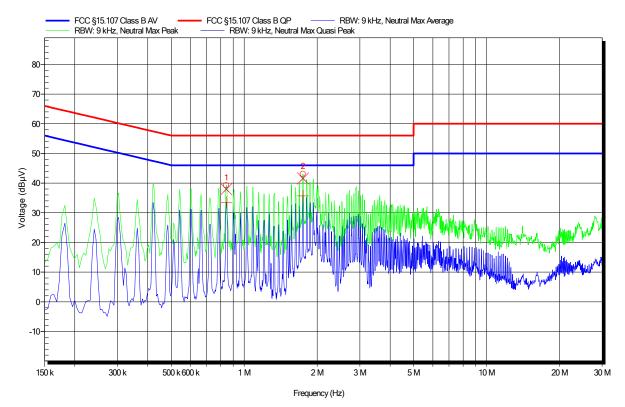
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz

LISN: ESH2-Z5 N

Mode: WPT; 1 Charger + Charging load

Test Date: 2018-09-18

Note:



| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status |
|-------------|------------|------------|------------------|--------------------------|-------------------|
| 1 2 | 843.45 kHz | 37.95 dBμV | 56 dΒμV | -18.05 dB | Pass |
| | 1.747 MHz | 41.56 dBμV | 56 dΒμV | -14.44 dB | Pass |
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status |
| 1 | 843.45 kHz | 33.53 dΒμV | 46 dBµV | -12.47 dB | Pass |
| 2 | 1.747 MHz | 35.7 dΒμV | 46 dBµV | -10.3 dB | Pass |



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Test Site: Eurofins Product Service GmbH

Operator: Mr. Weber

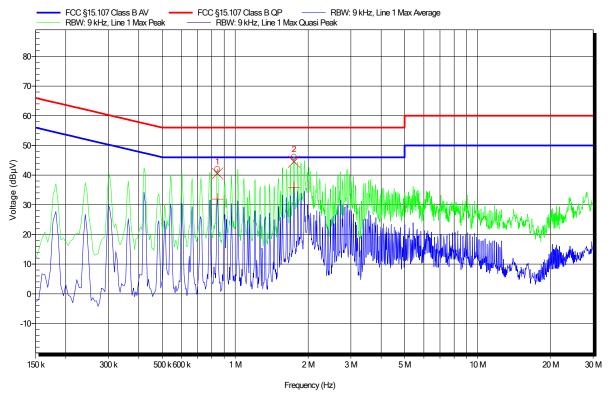
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz

LISN: ESH2-Z5 L

Mode: WPT; 1 Charger + Charging load

Test Date: 2018-09-18

Note:



| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status |
|-------------|-----------|------------|------------------|--------------------------|-------------------|
| 1 2 | 843 kHz | 40.52 dBμV | 56 dΒμV | -15.48 dB | Pass |
| | 1.747 MHz | 44.54 dBμV | 56 dΒμV | -11.46 dB | Pass |
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status |
| 1 | 843 kHz | 31.91 dΒμV | 46 dBµV | -14.09 dB | Pass |
| 2 | 1.747 MHz | 35.86 dΒμV | 46 dBµV | -10.14 dB | Pass |



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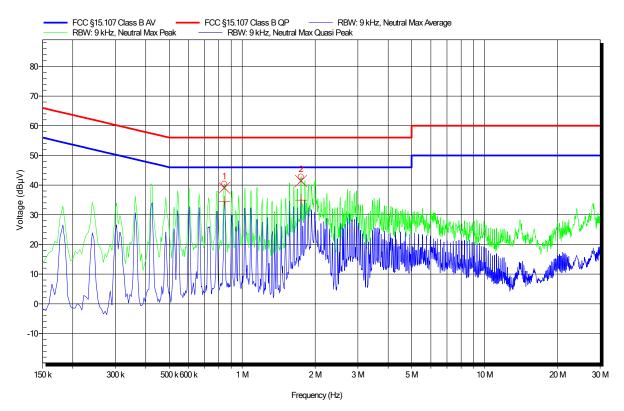
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz

LISN: ESH2-Z5 N

Mode: WPT; 1 Charger + Client device

Test Date: 2018-09-18

Note:



| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status |
|-------------|-----------|------------|------------------|--------------------------|-------------------|
| 1 | 843.9 kHz | 39.06 dBµV | 56 dBµV | -16.94 dB | Pass |
| 2 | 1.747 MHz | 41.38 dBµV | 56 dBμV | -14.62 dB | Pass |
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status |
| 1 | 843.9 kHz | 34.37 dBµV | 46 dBµV | -11.63 dB | Pass |
| 2 | 1.747 MHz | 34.95 dBµV | 46 dBµV | -11.05 dB | Pass |



Project number: G0M-1801-7169

Applicant: Dräger Safety AG & Co. KGaA

EUT Name: Inductive Charger
Model: Induktive Power Unit

Test Site: Eurofins Product Service GmbH

Operator: Mr. Weber

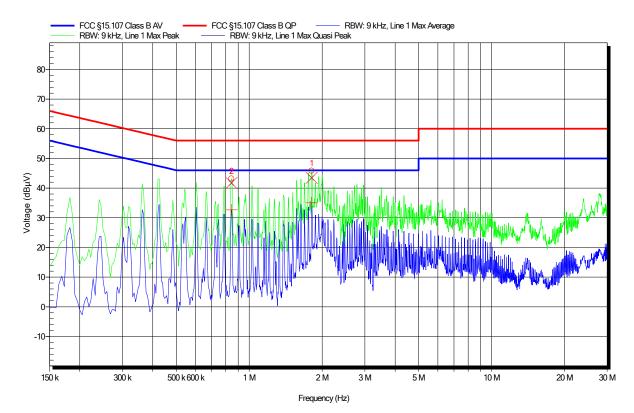
Test Conditions: Tnom: 24.2°C, Unom: 120 VAC/60 Hz

LISN: ESH2-Z5 L

Mode: WPT; 1 Charger + Client device

Test Date: 2018-09-18

Note:



| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status |
|-------------|-----------|------------|------------------|--------------------------|-------------------|
| 1 | 1.81 MHz | 43.43 dBµV | 56 dBµV | -12.57 dB | Pass |
| 2 | 844.8 kHz | 41.71 dBµV | 56 dBμV | -14.29 dB | Pass |
| | | | | | |
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status |
| 1 | 1.81 MHz | 35.05 dBµV | 46 dBµV | -10.95 dB | Pass |
| 2 | 844.8 kHz | 32.68 dBµV | 46 dBµV | -13.32 dB | Pass |