

Prüfbericht-Nr.: Test Report No.:	60187815-001	Auftrags-Nr.: Order No.:	3259338_030	Seite 1 von 35 Page 1 of 35
Kunden-Referenz-Nr.: Client Reference No.:	—	Auftragsdatum: Order date:	23.05.2018	
Auftraggeber: Client:	Brüel & Kjaer Sound & Vibration Measurement A/S, Skodsborgvej 307, DK-2850 NÆRUM			
Prüfgegenstand: Test item:	Hand-held analyzer with BLE and WiFi			
Bezeichnung / Typ-Nr.: Identification / Type No.:	Type 2245 SLM			
Auftrags-Inhalt: Order content:	Prüfung der elektromagnetischen Verträglichkeit EMV / Test of electromagnetic compatibility EMC			
Prüfgrundlage: Test specification:	Komplettprüfung / Complete test 47 CFR FCC Part 15 Subpart B			
Wareneingangsdatum: Date of receipt:	18.08.2018			
Prüfmuster-Nr.: Test sample No.:	A000209706-003 A000209706-010			
Prüfzeitraum: Testing period:	26.09.2018 - 28.09.2018			
Ort der Prüfung: Place of testing:	Nürnberg / Nuremberg			
Prüflaboratorium: Testing laboratory:	EMV Labor / EMC test lab			
Prüfergebnis*: Test result*:	PASS			
geprüft von / tested by:		kontrolliert von / reviewed by:		
04.10.2018 Frank Tomandl, SV		04.10.2018 Marco Janker, SV		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
				Unterschrift Signature
Sonstiges / Other: —				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				



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Liste der verwendeten Prüfmittel
List of used test equipment

Prüfmittel <i>Test equipment</i>		Prüfmittel-Nr. / ID-Nr. <i>Equipment No. / ID-No.</i>	Nächste Kalibrierung <i>Next calibration</i>
Absorberhalle <i>Anechoic chamber</i>	SAC 10	2728140	02.2019
Absorberhalle <i>Anechoic chamber</i>	SAC 10	2728890	04.2019
Messantenne <i>Antenna</i>	3115	2728607	01.2020
Messantenne <i>Antenna</i>	VULB 9168	2728915	11.2019
HF-Kabel <i>Cable</i>	—	LTG_1800	01.2019
HF-Kabel <i>Cable</i>	N-SMA	LTG_1815	07.2021
Netznachbildung <i>LISN</i>	ESH2-Z5	2728096	11.2019
Impulsbegrenzer 10 dB <i>Limiter</i>	ESH3-Z2	2732546	01.2019
Vorverstärker <i>Preamplifier</i>	BBV 9718	2731378	12.2018
Mesempfänger <i>Receiver</i>	ESU 26	2723865	07.2019
Mesempfänger <i>Receiver</i>	ESU 26	2728898	10.2018
Mesempfänger <i>Receiver</i>	ESU 8	2728844	11.2018
Schirmkabine <i>Shielded room</i>	SR 2	—	11.2018

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Produktbeschreibung
Product description

1	Prüfgegenstand <i>Test item</i>	Hand-held analyzer with BLE and WiFi
2	Modellbezeichnung <i>Model</i>	Type 2245 SLM
3	Baugleiche Modelle <i>Identical types</i>	—
4	Beschreibung <i>Description</i>	Sound Level Meter
5	Seriennummer <i>Serial number</i>	—
6	Hersteller <i>Manufacturer</i>	identisch mit Auftraggeber / same as applicant
7	Bemessungsspannung <i>Rated voltage</i>	110V
8	Bemessungsfrequenz <i>Rated frequency</i>	60Hz
9	Bemessungsstrom <i>Rated current</i>	—
10	Bemessungsleistung <i>Rated power consumption</i>	—
11	Gerätekategorie <i>Equipment categorie</i>	Class B
12	Anzahl der Phasen <i>Number of phases</i>	1
13	Schutzklasse <i>Protection class</i>	II - Schutzisolierung/Double insulated
14	Abmessungen <i>Dimensions</i>	—
15	Gewicht <i>Weight</i>	—
16	Sonstiges <i>Other</i>	—

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Absatz		Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

17	Funkstörspannung <i>Conducted voltage emissions</i> 47 CFR FCC Part 15 Subpart B Section 15.107	<i>Details in protocol number:</i> #4 <i>Operating mode:</i> Lade- und Messbetrieb / Charging and measuring <i>EUT:</i> Type 2245 SLM (A000209706-003 A000209706-010) <i>Terminals:</i> Netzleitung / Supply line <i>Remarks:</i>	P ☒ F ☐ N/A ☐ N/T ☐																					
Grenzwerte <i>Limits</i> <i>Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.</i> <table><tr><td>Frequenz <i>Frequency</i> [MHz]</td><td>Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)]</td><td>Mittelwert <i>Average</i> [dB(µV)]</td></tr><tr><td>0.15 – 0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr></table> <i>*Decreases with the logarithm of the frequency.</i> <i>For a Class A digital device that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms LISN. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.</i> <table><tr><td>Frequenz <i>Frequency</i> [MHz]</td><td>Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)]</td><td>Mittelwert <i>Average</i> [dB(µV)]</td></tr><tr><td>0.15 – 0.5</td><td>79</td><td>66</td></tr><tr><td>0.5 – 30</td><td>73</td><td>60</td></tr></table>				Frequenz <i>Frequency</i> [MHz]	Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)]	Mittelwert <i>Average</i> [dB(µV)]	0.15 – 0.5	66 to 56*	56 to 46*	0.5 – 5	56	46	5 – 30	60	50	Frequenz <i>Frequency</i> [MHz]	Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)]	Mittelwert <i>Average</i> [dB(µV)]	0.15 – 0.5	79	66	0.5 – 30	73	60
Frequenz <i>Frequency</i> [MHz]	Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)]	Mittelwert <i>Average</i> [dB(µV)]																						
0.15 – 0.5	66 to 56*	56 to 46*																						
0.5 – 5	56	46																						
5 – 30	60	50																						
Frequenz <i>Frequency</i> [MHz]	Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)]	Mittelwert <i>Average</i> [dB(µV)]																						
0.15 – 0.5	79	66																						
0.5 – 30	73	60																						

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Absatz		Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

Methode

Method

The test setup was according to ANSI C63.4. The EUT was placed on a non-conducting table at a height of 0.8 m above the reference ground plane and 0.4 m away from the conducting walls of a shielded room. The Artificial Mains Network (AMN) was placed 0.8 m away from the boundary of the unit under test and bonded to the ground reference plane. All other units of the EUT and associated equipment were at least 0.8 m from the AMN. Supporting units were connected to other AMN if necessary. Conducted voltage measurements on all mains lines were made at the output of the AMN. The whole required frequency range was investigated for maximum conducted interferences.

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Funkstörfeldstärke

Radiated disturbance

47 CFR FCC Part 15 Section 15.109

Details in protocol number:
#5

Operating mode:
Lade- und Messbetrieb /
Charging and measuring

EUT:
Type 2245 SLM (A000209706-
003

A000209706-010)

Terminals:
Gehäuse / Enclosure

Remarks:

P ☒
F ☐
N/A ☐
N/T ☐

Grenzwerte

Limits

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values

Frequenz Frequency [MHz]	Quasi-Spitzenwert Quasi-peak [dB(μV)/m]
30 – 88	40
88 – 216	43.5
216 – 960	46
Above 960	54

The field strength of radiated emissions from a Class A digital device, as determined at a distance of 10 meters, shall not exceed the following, using measurement instrumentation employing a CISPR quasi-peak detector.

Frequenz Frequency [MHz]	Quasi-Spitzenwert Quasi-peak [dB(μV)/m]
30 – 88	39.1
88 – 216	43.5
216 – 960	46.4
Above 960	49.5

Note: For frequencies above 1000 MHz, the radiated emission limits are based on the use of

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Absatz		Messergebnisse - Bemerkungen	Bewertung
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measurement instrumentation employing an average detector function.

When average radiated emission measurements are specified, there also is a limit on the peak level of the radio frequency emissions which is 20 dB above the maximum permitted average emission limit. (see § 15.35 Measurement detector functions and bandwidths)

As an alternative to the radiated emission limits shown above, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22 (acc. §15.109 (g)).

The field strength of radiated emissions from Class B devices at a distance of 10 meters shall not exceed the following values

Frequenz Frequency [MHz]	Quasi-Spitzenwert Quasi-peak [dB(μV)/m]
30 – 230	30
230 - 1000	37

The field strength of radiated emissions from Class A devices at a distance of 10 meters shall not exceed the following values

Frequenz Frequency [MHz]	Quasi-Spitzenwert Quasi-peak [dB(μV)/m]
30 – 230	40
230 - 1000	47

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Absatz		Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

Methode

Method

The test setup was according to ANSI C63.4. Measurements were made in a 10-meter semi-anechoic chamber. The EUT was placed on a non-conducting table at a height of 0.8 m above the reference ground plane. Preliminary measurements were performed with a receiver employing a peak detector at an antenna to EUT distance of 3 m or 10 m as defined by the standard. The EUT was continuously rotated 360° about its azimuth to determine the position of the highest emissions. The measurement antenna was adjusted between 1 m and 4 m above ground to find the maximum signal strength. These measurements were done in both horizontal and vertical polarizations. After this, final measurements with a receiver employing a quasi-peak detector were performed by rotating the EUT 360° and adjusting the receive antenna height from 1 m to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity.

The quasi-peak emission limits are calculated from the field strength limit of this section using this formula:

$$\text{Emission level} \left(\frac{\text{dB}\mu\text{V}}{\text{m}} \right) = 20 \log \text{Emission level} \left(\frac{\mu\text{V}}{\text{m}} \right)$$

When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade as per §15.31(f)(1). For this documentation a distance extrapolation factor was added to the limit that was calculated using this formula:

$$\text{Emission limit}_{\text{new}} \left(\frac{\text{dB}\mu\text{V}}{\text{m}} \right) = \text{Emission limit}_{\text{old}} + 20 \log \left(\frac{d_1}{d_2} \right)$$

Where

d_1 : old distance (e. g. 3 m)

d_2 : new distance (e. g. 10 m)

The field strength is calculated by adding the antenna factor and cable loss. The basic equation with a sample calculation is as follows:

$$E = U + AF + CA$$

For example:

Frequency (MHz)	Receiver reading U (dBμV)	Correction antenna factor AF + cable loss CA (dB)	Field strength E (dBμV/m)
320	15.9	15.8	31.7

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Absatz		Messergebnisse - Bemerkungen	Bewertung																				
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation																				
19	Funkstörfeldstärke <i>Radiated disturbance</i> 47 CFR FCC Part 15 Section 15.109	<i>Details in protocol number:</i> #6 <i>Operating mode:</i> Lade- und Messbetrieb / Charging and measuring <i>EUT:</i> Type 2245 SLM (A000209706-003 A000209706-010) <i>Terminals:</i> Gehäuse / Enclosure <i>Remarks:</i>	P ☒ F ☐ N/A ☐ N/T ☐																				
Grenzwerte <i>Limits</i> <i>Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values</i> <table><tr><td>Frequenz <i>Frequency</i> [MHz]</td><td>Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)/m]</td></tr><tr><td>30 – 88</td><td>40</td></tr><tr><td>88 – 216</td><td>43.5</td></tr><tr><td>216 – 960</td><td>46</td></tr><tr><td>Above 960</td><td>54</td></tr></table> <i>The field strength of radiated emissions from a Class A digital device, as determined at a distance of 10 meters, shall not exceed the following, using measurement instrumentation employing a CISPR quasi-peak detector.</i> <table><tr><td>Frequenz <i>Frequency</i> [MHz]</td><td>Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)/m]</td></tr><tr><td>30 – 88</td><td>39.1</td></tr><tr><td>88 – 216</td><td>43.5</td></tr><tr><td>216 – 960</td><td>46.4</td></tr><tr><td>Above 960</td><td>49.5</td></tr></table> <i>Note: For frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. When average radiated emission measurements are specified, there also is a limit on the peak level of the radio frequency emissions which is 20 dB above the maximum permitted average emission limit. (see § 15.35 Measurement detector functions and bandwidths)</i> <i>As an alternative to the radiated emission limits shown above, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22 (acc. §15.109 (g)). The field strength of radiated emissions from Class B devices at a distance of 10 meters shall not exceed the following values</i>				Frequenz <i>Frequency</i> [MHz]	Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)/m]	30 – 88	40	88 – 216	43.5	216 – 960	46	Above 960	54	Frequenz <i>Frequency</i> [MHz]	Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)/m]	30 – 88	39.1	88 – 216	43.5	216 – 960	46.4	Above 960	49.5
Frequenz <i>Frequency</i> [MHz]	Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)/m]																						
30 – 88	40																						
88 – 216	43.5																						
216 – 960	46																						
Above 960	54																						
Frequenz <i>Frequency</i> [MHz]	Quasi-Spitzenwert <i>Quasi-peak</i> [dB(µV)/m]																						
30 – 88	39.1																						
88 – 216	43.5																						
216 – 960	46.4																						
Above 960	49.5																						

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Absatz		Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

Frequenz Frequency [MHz]	Quasi-Spitzenwert Quasi-peak [dB(μV)/m]
30 – 230	30
230 - 1000	37

The field strength of radiated emissions from Class A devices at a distance of 10 meters shall not exceed the following values

Frequenz Frequency [MHz]	Quasi-Spitzenwert Quasi-peak [dB(μV)/m]
30 – 230	40
230 - 1000	47

Methode

Method

The test setup was according to ANSI C63.4. Measurements were made in a 10-meter semi-anechoic chamber. The EUT was placed on a non-conducting table at a height of 0.8 m above the reference ground plane. Preliminary measurements were performed with a receiver employing a peak detector at an antenna to EUT distance of 3 m or 10 m as defined by the standard. The EUT was continuously rotated 360° about its azimuth to determine the position of the highest emissions. The measurement antenna was adjusted between 1 m and 4 m above ground to find the maximum signal strength. These measurements were done in both horizontal and vertical polarizations. After this, final measurements with a receiver employing a quasi-peak detector were performed by rotating the EUT 360° and adjusting the receive antenna height from 1 m to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity.

The quasi-peak emission limits are calculated from the field strength limit of this section using this formula:

$$\text{Emission level} \left(\frac{\text{dB}\mu\text{V}}{\text{m}} \right) = 20 \log \text{Emission level} \left(\frac{\mu\text{V}}{\text{m}} \right)$$

When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade as per §15.31(f)(1). For this documentation a distance extrapolation factor was added to the limit that was calculated using this formula:

$$\text{Emission limit}_{\text{new}} \left(\frac{\text{dB}\mu\text{V}}{\text{m}} \right) = \text{Emission limit}_{\text{old}} + 20 \log \left(\frac{d_1}{d_2} \right)$$

Where

d_1 : old distance (e. g. 3 m)

d_2 : new distance (e. g. 10 m)

The field strength is calculated by adding the antenna factor and cable loss. The basic equation with a sample calculation is as follows:

$$E = U + AF + CA$$

For example:

Frequency (MHz)	Receiver reading U (dBμV)	Correction antenna factor AF + cable loss CA (dB)	Field strength E (dBμV/m)
320	15.9	15.8	31.7

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Clause	Anforderungen - Prüfungen / <i>Requirements - Tests</i>	<i>Measuring results - Remarks</i>	<i>Evaluation</i>

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ZUSATZDOKUMENTATION
ADDITIONAL DOCUMENTATION

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Änderungsverzeichnis
Change history

Rev. No.	List of revisions	Date Author
1	First edition (60187815-001)	2018-10-04 Frank Tomandl
2		

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ZUSATZDOKUMENTATION
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21	Kalibrierung Calibration
	<i>Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.</i> <i>All measurement equipment calibrations are traceable to DKD or where calibration is performed outside Germany, to equivalent nationally recognized standards organizations.</i>
22	Registrierung Registration
	<i>The measurement facilities for conducted and for radiated disturbance measurement of the TRLP, have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules. Measurement data will be accepted in conjunction with applications for Certification under Parts 15 and 18 of the Commission's Rules.</i> <i>FCC Registration-Number: 939976</i> <i>Bundesnetzagentur Registriernummer: BNetzA-CAB-17/21-16</i>
23	Verifizierung Verification
	<i>Pursuant to 47 CFR part 15 - RADIO FREQUENCY DEVICES, Section 15.19.</i> <i>This device shall bear the following statement in a conspicuous location on the device:</i> This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
24	Angewendete Standards Applied Standards
	<i>According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:</i> - Title 47 CFR FCC Part 15 Subpart B - ANSI C63.4-2014 (Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz) - ICES-003:2016 (Issue 6) (Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement) <i>For frequencies $f \leq 1000$ MHz the test setup and test was done according to: ANSI C63.4-2014.</i> <i>For frequencies $f > 1000$ MHz the test setup and test was done according to ANSI C63.4-2014.</i>

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ZUSATZDOKUMENTATION
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25	Testkonfiguration Equipment used during test					
	Prüfgegenstand Equipment under test					
	Nr. No.	Produktart Product type	Hersteller Manufacturer	Modell Model	Kommentare Comments	
	1	Hand-held analyzer with BLE and WiFi	identisch mit Auftraggeber / same as applicant	Type 2245 SLM	—	
	2	Power Supply	Mean Well	SGA1SI05	—	
	Hilfsmittel / Peripherie Auxiliary Equipment / Peripherals					
	Nr. No.	Produktart Product type	Hersteller Manufacturer	Modell Model	Kommentare Comments	
	1	—	—	—	—	
26	Ein-/Ausgabeanschlüsse Input/Output ports					
	Nr. No.	Name	Art* Type*	Kabel- länge Cable length	Kabel geschirmt Cable shielded	Kommentare Comments
	1	Enclosure	N/E	—	—	None
	2	Mains	AC	1	N	—
	* AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port (Not Involved in Process Control) TP = Telecommunication Ports					

ZUSATZDOKUMENTATION
ADDITIONAL DOCUMENTATION

27 **Interne Betriebsfrequenzen**
Internal operating frequencies

Nr. No.	Frequenz Frequency	Beschreibung Description
1	Internal operating frequency: f < 3 GHz	CPU
2	—	—

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705–108	1000
108–500	2000
500–1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

28 **Betriebsarten**
Operating modes

The EUT has been connected with peripherals pursuant ANSI C63.4 and was operated in a configuration to maximize its emission characteristics in a typical application.

Nr. No.	Beschreibung Description
1	Modus 1 Lade- und Messbetrieb / Charging and measuring Mode 1

ZUSATZDOKUMENTATION
ADDITIONAL DOCUMENTATION

29	Prüfaufbau <i>EUT configuration</i>						
	Der Prüfaufbau erfolgte entsprechend den Angaben der genannten EMV-Normen. Die Messungen und Tests wurden unter "worst case"-Bedingungen durchgeführt, d.h. es wurden typische Anordnungen und Betriebszustände gewählt bzw. angenommen, die maximale Störaussendung und Störempfindlichkeit vermuten lassen (sogenannte "Ungünstigste Konfiguration"). Einzelheiten der Geräteeinstellungen sind u.a. der Fotodokumentation zu entnehmen. Soweit nicht anders angegeben, gelten diese Angaben für alle nachfolgenden Messungen. <i>The test setup was made in accordance with mentioned EMC standards.</i> <i>Measurements and tests were executed under "worst case" conditions. Typical EUT arrangements or operating modes were chosen or assumed which let suspect maximum emission or susceptibility (a so called "unfavourable configuration").</i> <i>Details of test setup or adjustments are (particularly) shown inside the photo documentation. As far as not mentioned otherwise these statements are valid for all following tests.</i>						
30	Besondere EMV-Massnahmen <i>Special EMC measures</i>						
	Keine / None						
31	Klimatische Bedingungen <i>Climatic conditions</i>						
	<table> <tr> <td><i>Umgebungstemperatur</i> <i>Ambient Temperature</i></td> <td>15 - 35 °C</td> </tr> <tr> <td><i>Relative Luftfeuchte</i> <i>Relative Humidity</i></td> <td>30 - 60 %</td> </tr> <tr> <td><i>Luftdruck</i> <i>Air pressure</i></td> <td>860 - 1060 mbar</td> </tr> </table>	<i>Umgebungstemperatur</i> <i>Ambient Temperature</i>	15 - 35 °C	<i>Relative Luftfeuchte</i> <i>Relative Humidity</i>	30 - 60 %	<i>Luftdruck</i> <i>Air pressure</i>	860 - 1060 mbar
<i>Umgebungstemperatur</i> <i>Ambient Temperature</i>	15 - 35 °C						
<i>Relative Luftfeuchte</i> <i>Relative Humidity</i>	30 - 60 %						
<i>Luftdruck</i> <i>Air pressure</i>	860 - 1060 mbar						

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32 Aussage zur Messunsicherheit
Statement of the measurement uncertainty

Die in diesem Dokument genannten Daten und Ergebnisse sind wahr und genau. Der Leser wird darauf hingewiesen, dass innerhalb der Kalibriergrenzen der Geräte und Einrichtungen Fehler auftreten können. Die Messunsicherheit wurde für alle Prüfungen in diesem Prüfbericht gemäß CISPR 16-4 "Anforderungen an Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit – Teil 4-2: Unsicherheiten, Statistik und Modelle zur Ableitung von Grenzwerten (Störmodell) – Messgeräte-Unsicherheit" berechnet und ist im Qualitätssicherungssystem gemäß ISO / IEC 17025 dokumentiert. Darüber hinaus können Veränderungen bei den Bauteilen und im Herstellungsprozess zu einer zusätzlichen Abweichung führen.

Der Hersteller ist alleine verantwortlich dafür, dass zukünftige Geräte die einschlägigen Normen und Standards einhalten.

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

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

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33 **Messunsicherheiten**
Measurement uncertainties

Folgende Messunsicherheiten wurden nach CISPR 16-4-2 ermittelt. Es handelt sich um die erweiterte Messunsicherheit, mit einer Wahrscheinlichkeit von 95%, dass die Werte im zugeordneten Intervall liegen ($k = 2$).
The following measurement uncertainties have been calculated in accordance with CISPR 16-4-2. The stated values are the expanded uncertainty values, the measurand lies within the assigned range of values with a probability of 95% ($k = 2$).

Measurement procedure	U_{Lab}
Measurement of conducted emissions at the power supply connection to LISN in the frequency range 9k-150kHz (CISPR Band A)	2.3 dB
Measurement of conducted emissions at the power supply connection to LISN in the frequency range 150k-30MHz (CISPR Band B) with 150 ohm Delta LISN	3.3 dB
Measurement of conducted emissions at the power supply connection to LISN in the frequency range 150k-30MHz (CISPR Band B)	2.2 dB
Measurement of conducted emissions at the power supply connection to voltage probes in the frequency range 9k-30MHz (CISPR Band A and B)	2.0 dB
Measurement of conducted emissions at telecommunication connection to ISN in the frequency range 150k-30MHz (CISPR Band B) ISN CAT 5	3.3 dB
Measurement of conducted emissions at the telecommunication connection to ISN in the frequency range 150k-30MHz (CISPR Band B) ISN CAT 6 Shielded	2.6 dB
Measurement of conducted emissions at the telecommunications connection to current clamps in the frequency range 150k-30MHz (CISPR Band B)	2.2 dB
Measurement of interference power in the frequency range 30-300MHz (CISPR Band C)	2.9 dB
Measurement of interference power in the frequency range 30-300MHz (CISPR Band C) CDNE	2.6 dB
Measurement of magnetic emissions in the frequency range 9k-150kHz (CISPR Band A) with frame antenna HFH2 (small loop antenna)	1.6 dB
Measurement of magnetic emissions in the frequency range 9k-150kHz (CISPR Band A) with frame antenna HL562 (3-axis loop antenna)	1.6 dB
Measurement of the field strength in the frequency range 30-1000MHz (CISPR Band C and D) with 10m distance with VULB 9168 Vertical	4.5 dB
Measurement of the field strength in the frequency range 30-1000MHz (CISPR band C and D) with 10m distance with VULB 9168 Horizontal	4.4 dB
Measurement of the field strength in the frequency range 1-18GHz (CISPR Band E) with 3m distance with HL025 1-6GHz	5.0 dB
Measurement of the field strength in the frequency range 1-18GHz (CISPR Band E) with 3m distance with HL025 6-18GHz	5.3 dB

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Funkstörspannung Conducted voltage emissions		PASS
Prüfungsbezeichnung u. -nummer Test name and number	Störspannung in Betriebszustand Lade- und Messbetrieb / Charging and measuring #4	
Datum des Tests Test date	28.09.2018	
Angewendete Norm Applied Standard	47 CFR FCC Part 15 Subpart B Section 15.107	
Prüfmethode Test method	ANSI C63.4-2014	
Temperatur (°C) Temperature	14 - 25	
Luftfeuchte (% rH) Humidity	30 - 60	
Luftdruck (mbar) Air pressure	860 - 1060	
Bearbeiter Tested by	Tomandl	
Modellbezeichnung Model	Type 2245 SLM	
Prüfmuster-Nr. Test sample No.:	A000209706-003 A000209706-010	
Betriebsart Operating mode	Lade- und Messbetrieb / Charging and measuring	
Anschlüsse Tested terminals	Netzleitung / Supply line	
Grenzwert Limit	47 CFR Part 15 section 15.107 Class B	
Bemerkung Remarks		
Version der Prüfsoftware Version of testing software	3.17.0.29	

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Verwendete Prüfmittel
Used test equipment

Typ	Hersteller <i>Manufacturer</i>	Modell	ID	Kalibriert am <i>Last calibration</i>	Kalibriert bis <i>Next calibration</i>
Impulsbegrenzer 10 dB <i>Limiter</i>	Rohde & Schwarz	ESH3-Z2	2732546	16.01.2017	16.01.2019
Netznachbildung <i>LISN</i>	Rohde & Schwarz	ESH2-Z5	2728096	25.11.2016	25.11.2019
Messempfänger <i>Receiver</i>	Rohde & Schwarz	ESU 26	2723865	31.07.2018	31.07.2019
Schirmkabine <i>Shielded room</i>	TDK	SR 2	—	17.11.2016	17.11.2018

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Prüfparameter zu Funkstörspannung

#4

Test parameter of Conducted voltage emissions

Störspannung in Betriebszustand Lade- und Messbetrieb / Charging and measuring,
A000209706-003

A000209706-010, Type 2245 SLM

Startfrequenz <i>Start Frequency</i>	Stopfrequenz <i>Stop Frequency</i>	Schrittweite <i>Frequency step</i>	Anschluss <i>Terminal</i>	Durchlaufzeit <i>Sweep time</i>	ZF-Bandbreite <i>IF bandwidth</i>
150kHz	30MHz	2.25kHz	Phase 1	100 ms/Pts	9kHz

Startfrequenz <i>Start Frequency</i>	Stopfrequenz <i>Stop Frequency</i>	Schrittweite <i>Frequency step</i>	Anschluss <i>Terminal</i>	Durchlaufzeit <i>Sweep time</i>	ZF-Bandbreite <i>IF bandwidth</i>
150kHz	30MHz	2.25kHz	Neutral	100 ms/Pts	9kHz

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Messdiagramme zu Funkstörspannung

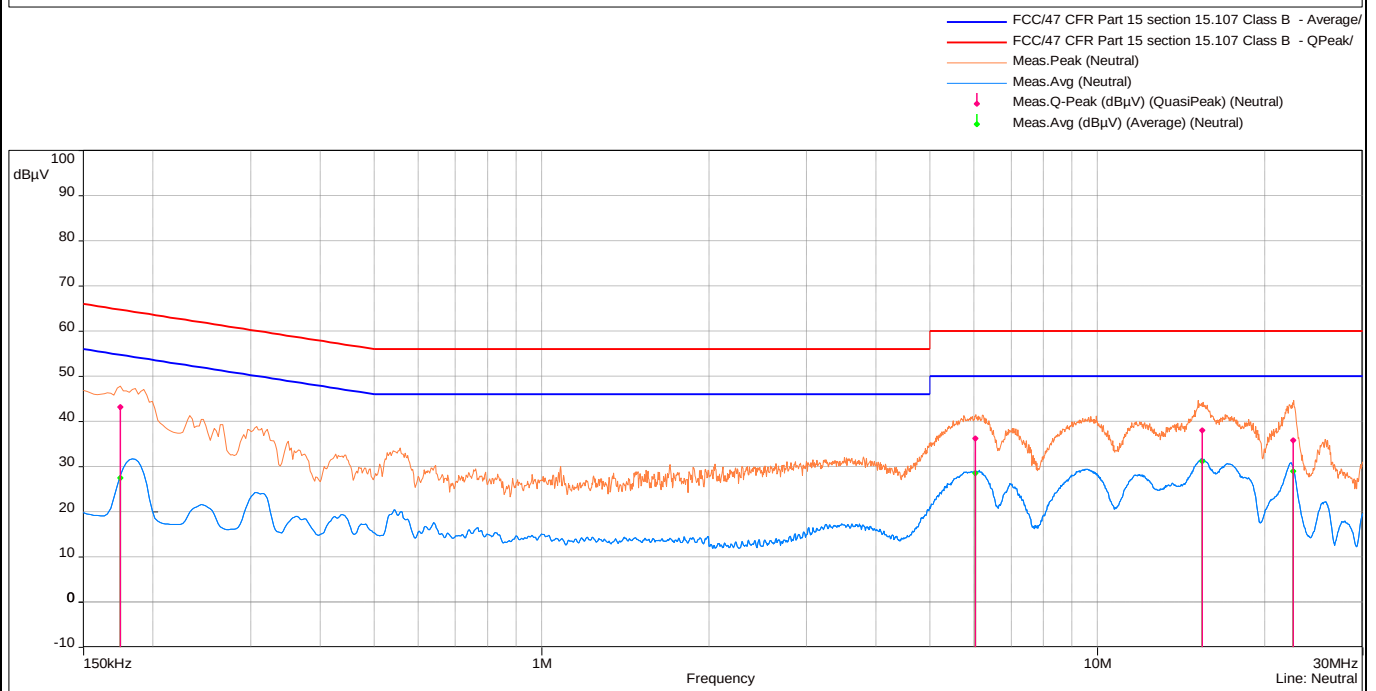
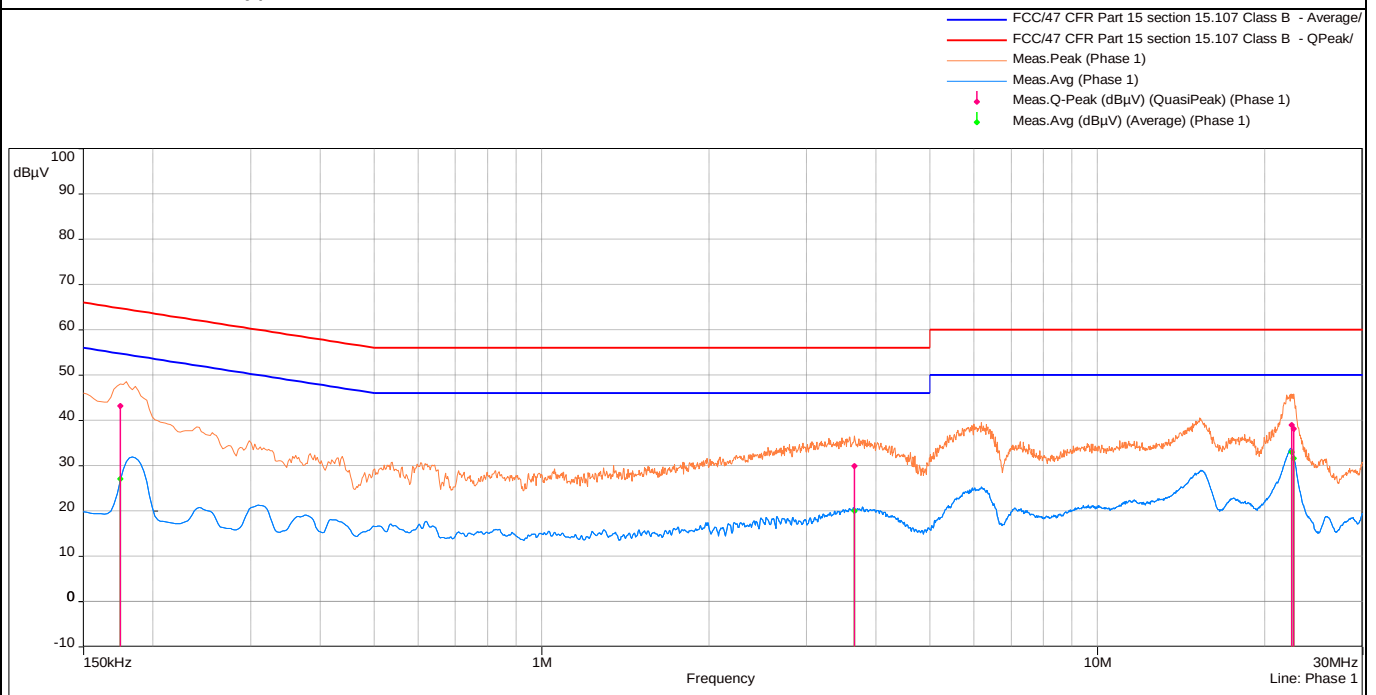
#4

Graphical presentation of Conducted voltage emissions

Störspannung in Betriebszustand Lade- und Messbetrieb / Charging and measuring,

A000209706-003

A000209706-010, Type 2245 SLM



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Messdaten zu Funkstörspannung

#4

Measurement data of Conducted voltage emissions

Störspannung in Betriebszustand Lade- und Messbetrieb / Charging and measuring,

A000209706-003

A000209706-010, Type 2245 SLM

Average (8)

Frequency (MHz)	Meas.Avg (dBµV)	Limit (dBµV)	Meas.-Lim (dB)	Line (dB)	Comments	Correction (dB)
0.17475	27.02	54.73	-27.71	Phase 1	Pass	10.06
3.65325	19.96	46.00	-26.04	Phase 1	Pass	10.19
22.35075	32.94	50.00	-17.06	Phase 1	Pass	10.71
22.52625	31.62	50.00	-18.38	Phase 1	Pass	10.71
0.17475	27.44	54.73	-27.30	Neutral	Pass	10.06
6.03825	28.52	50.00	-21.48	Neutral	Pass	10.26
15.44775	31.20	50.00	-18.80	Neutral	Pass	10.56
22.5195	28.99	50.00	-21.01	Neutral	Pass	10.71

QuasiPeak (8)

Frequency (MHz)	Meas.Q-Peak (dBµV)	Limit (dBµV)	Meas.-Lim (dB)	Line (dB)	Comments	Correction (dB)
0.17475	43.15	64.73	-21.58	Phase 1	Pass	10.06
3.65325	29.86	56.00	-26.14	Phase 1	Pass	10.19
22.35075	39.00	60.00	-21.00	Phase 1	Pass	10.71
22.52625	38.14	60.00	-21.86	Phase 1	Pass	10.71
0.17475	43.12	64.73	-21.61	Neutral	Pass	10.06
6.03825	36.27	60.00	-23.73	Neutral	Pass	10.26
15.44775	38.05	60.00	-21.95	Neutral	Pass	10.56
22.5195	35.78	60.00	-24.22	Neutral	Pass	10.71

—

Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

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Funkstörfeldstärke Radiated disturbance		PASS
Prüfungsbezeichnung u. -nummer Test name and number	Störfeldstärke in Betriebszustand Lade- und Messbetrieb / Charging and measuring #5	
Datum des Tests Test date	28.09.2018	
Angewendete Norm Applied Standard	47 CFR FCC Part 15 Section 15.109	
Prüfmethode Test method	ANSI C63.4-2014	
Temperatur (°C) Temperature	15 - 35	
Luftfeuchte (% rH) Humidity	30 - 60	
Luftdruck (mbar) Air pressure	860 - 1060	
Bearbeiter Tested by	Tomandl	
Modellbezeichnung Model	Type 2245 SLM	
Prüfmuster-Nr. Test sample No.:	A000209706-003 A000209706-010	
Betriebsart Operating mode	Lade- und Messbetrieb / Charging and measuring	
Anschlüsse Tested terminals	Gehäuse / Enclosure	
Grenzwert Limit	47 CFR Part 15 section 15.109	
Bemerkung Remarks		
Version der Prüfsoftware Version of testing software	3.17.0.29	

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Verwendete Prüfmittel
Used test equipment

Typ	Hersteller <i>Manufacturer</i>	Modell	ID	Kalibriert am <i>Last calibration</i>	Kalibriert bis <i>Next calibration</i>
Absorberhalle <i>Anechoic chamber</i>	Siemens	SAC 10	2728140	16.02.2018	16.02.2019
Messantenne <i>Antenna</i>	Schwarzbeck	VULB 9168	2728915	22.11.2016	22.11.2019
HF-Kabel <i>Cable</i>	—	—	LTG_1800	31.01.2018	31.01.2019
Messempfänger <i>Receiver</i>	Rohde & Schwarz	ESU 8	2728844	30.11.2017	30.11.2018

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Prüfparameter zu Funkstörfeldstärke

#5

Test parameter of Radiated disturbance

Störfeldstärke in Betriebszustand Lade- und Messbetrieb / Charging and measuring,
A000209706-003

A000209706-010, Type 2245 SLM

Startfrequenz <i>Start Frequency</i>	Stopfrequenz <i>Stop Frequency</i>	Schrittweite <i>Frequency step</i>	Anschluss <i>Terminal</i>	Durchlaufzeit <i>Sweep time</i>	ZF-Bandbreite <i>IF bandwidth</i>
30MHz	1GHz	30kHz	Horizontal	20 ms/Pts	120kHz

Startfrequenz <i>Start Frequency</i>	Stopfrequenz <i>Stop Frequency</i>	Schrittweite <i>Frequency step</i>	Anschluss <i>Terminal</i>	Durchlaufzeit <i>Sweep time</i>	ZF-Bandbreite <i>IF bandwidth</i>
30MHz	1GHz	30kHz	Vertical	20 ms/Pts	120kHz

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Messdiagramme zu Funkstörfeldstärke

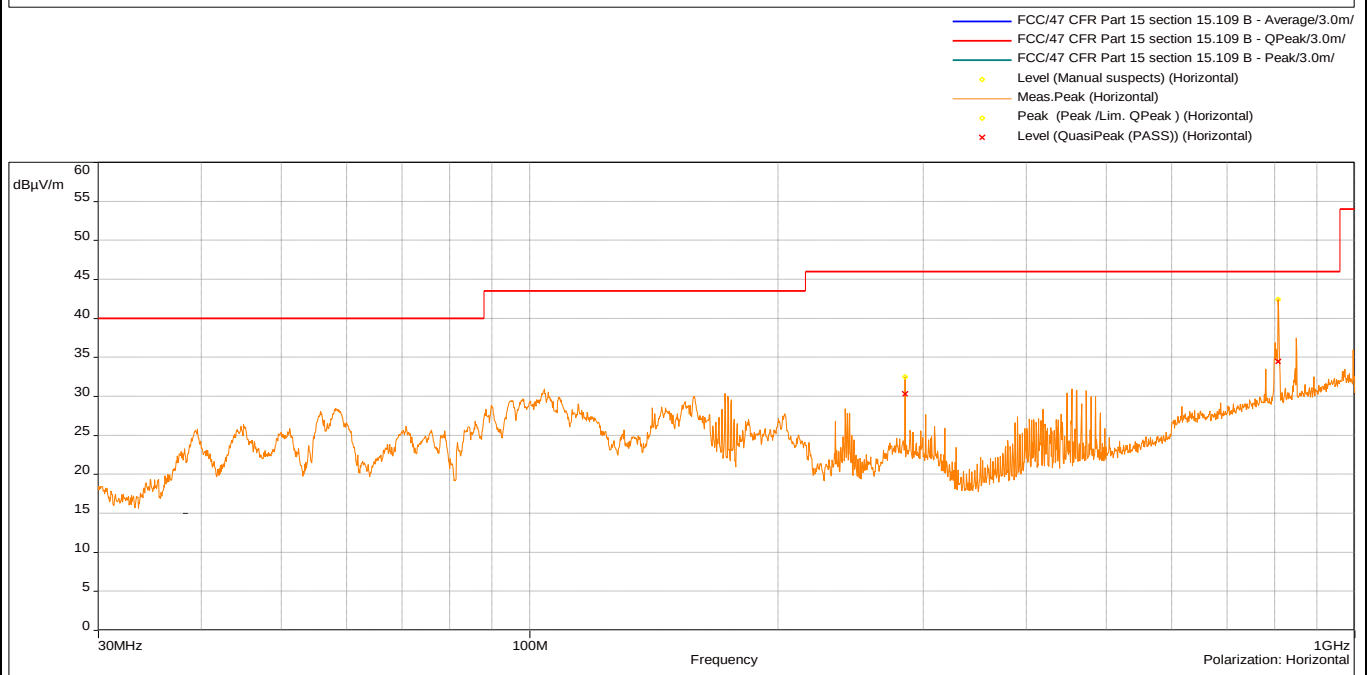
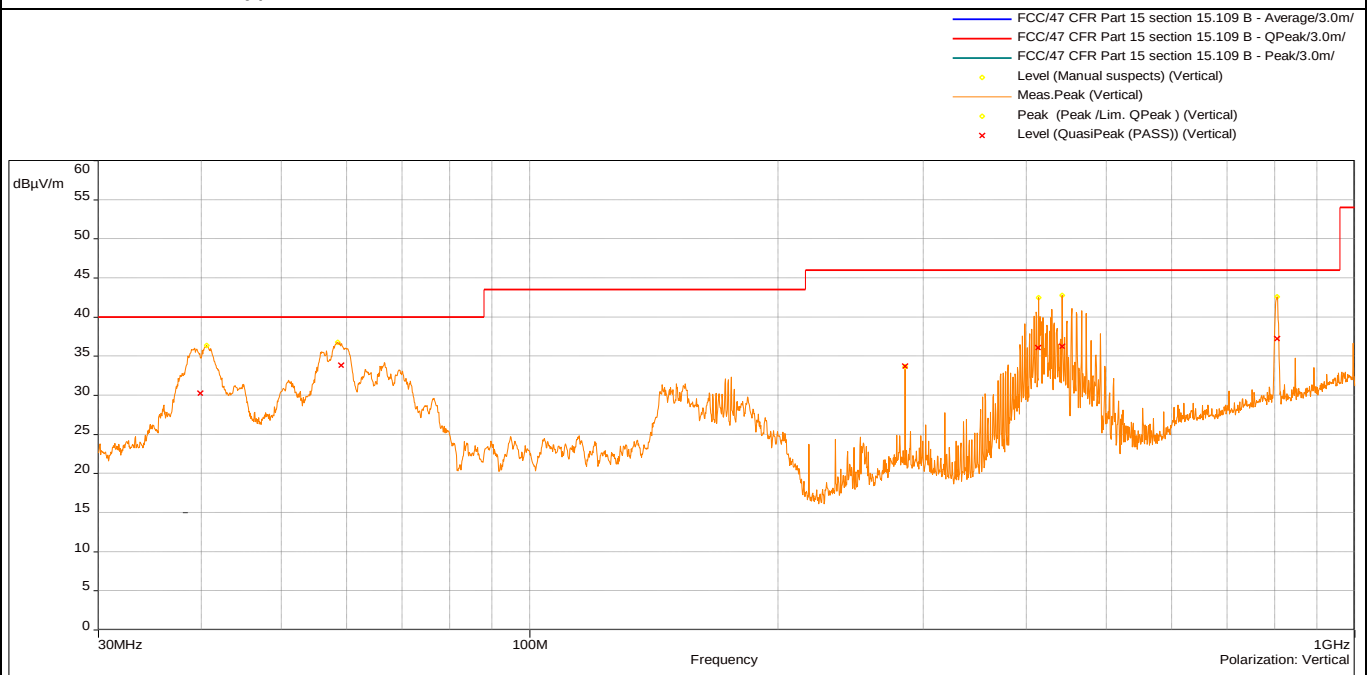
#5

Graphical presentation of Radiated disturbance

Störfeldstärke in Betriebszustand Lade- und Messbetrieb / Charging and measuring,

A000209706-003

A000209706-010, Type 2245 SLM



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Messdaten zu Funkstörfeldstärke

#5

Measurement data of Radiated disturbance

Störfeldstärke in Betriebszustand Lade- und Messbetrieb / Charging and measuring,
A000209706-003

A000209706-010, Type 2245 SLM

QuasiPeak (PASS) (8)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (m) (dB)	Azimuth (°) (dB)	Pol. (dB)	Correction (dB)
285.21	30.31	46.00	-15.69	1.17	224.50	Horizontal	14.96
808.02	34.43	46.00	-11.57	1.00	74.60	Horizontal	25.42
39.9	30.21	40.00	-9.79	1.00	324.20	Vertical	14.35
59.07	33.81	40.00	-6.19	1.18	269.00	Vertical	14.59
285.21	33.70	46.00	-12.30	1.50	104.70	Vertical	14.96
413.61	36.05	46.00	-9.95	1.34	25.40	Vertical	18.01
441.99	36.25	46.00	-9.75	1.00	0.20	Vertical	18.97
805.02	37.24	46.00	-8.76	1.81	9.00	Vertical	25.42

—

Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

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Funkstörfeldstärke Radiated disturbance		PASS
Prüfungsbezeichnung u. -nummer Test name and number	Störfeldstärke (> 1 GHz) in Betriebszustand Lade- und Messbetrieb / Charging and measuring #6	
Datum des Tests Test date	26.09.2018	
Angewendete Norm Applied Standard	47 CFR FCC Part 15 Section 15.109	
Prüfmethode Test method	ANSI C63.4-2014	
Temperatur (°C) Temperature	15 - 35	
Luftfeuchte (% rH) Humidity	30 - 60	
Luftdruck (mbar) Air pressure	860 - 1060	
Bearbeiter Tested by	Tomandl	
Modellbezeichnung Model	Type 2245 SLM	
Prüfmuster-Nr. Test sample No.:	A000209706-003 A000209706-010	
Betriebsart Operating mode	Lade- und Messbetrieb / Charging and measuring	
Anschlüsse Tested terminals	Gehäuse / Enclosure	
Grenzwert Limit	47 CFR Part 15 section 15.109	
Bemerkung Remarks		
Version der Prüfsoftware Version of testing software	3.17.0.29	

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Verwendete Prüfmittel
Used test equipment

Typ	Hersteller <i>Manufacturer</i>	Modell	ID	Kalibriert am <i>Last calibration</i>	Kalibriert bis <i>Next calibration</i>
Absorberhalle <i>Anechoic chamber</i>	TDK	SAC 10	2728890	13.04.2018	13.04.2019
Messantenne <i>Antenna</i>	EMCO	3115	2728607	11.01.2017	11.01.2020
HF-Kabel <i>Cable</i>	TRLP	N-SMA	LTG_1815	30.07.2018	30.07.2021
Vorverstärker <i>Preamplifier</i>	Schwarzbeck	BBV 9718	2731378	05.12.2016	05.12.2018
Messempfänger <i>Receiver</i>	Rohde & Schwarz	ESU 26	2728898	10.10.2017	10.10.2018

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Prüfparameter zu Funkstörfeldstärke

#6

Test parameter of Radiated disturbance

Störfeldstärke (> 1 GHz) in Betriebszustand Lade- und Messbetrieb / Charging and measuring, A000209706-003
A000209706-010, Type 2245 SLM

Startfrequenz <i>Start Frequency</i>	Stopfrequenz <i>Stop Frequency</i>	Schrittweite <i>Frequency step</i>	Anschluss <i>Terminal</i>	Durchlaufzeit <i>Sweep time</i>	ZF-Bandbreite <i>IF bandwidth</i>
1GHz	18GHz	250kHz	Horizontal	5 ms/Pts	1MHz

Startfrequenz <i>Start Frequency</i>	Stopfrequenz <i>Stop Frequency</i>	Schrittweite <i>Frequency step</i>	Anschluss <i>Terminal</i>	Durchlaufzeit <i>Sweep time</i>	ZF-Bandbreite <i>IF bandwidth</i>
1GHz	18GHz	250kHz	Vertical	5 ms/Pts	1MHz

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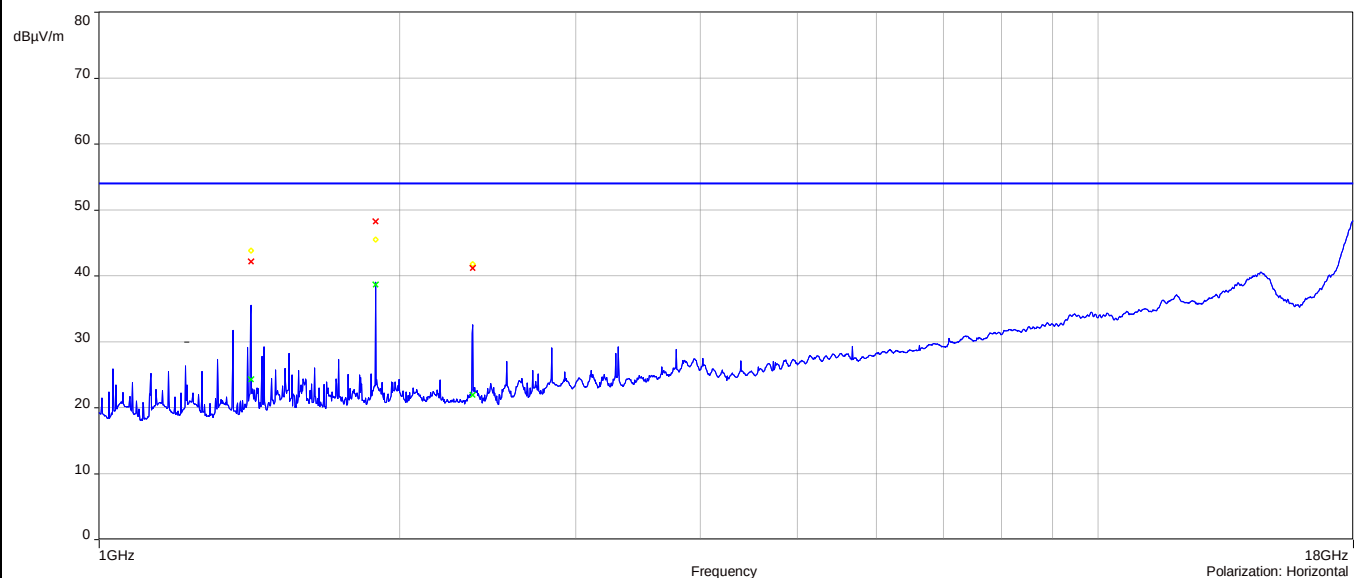
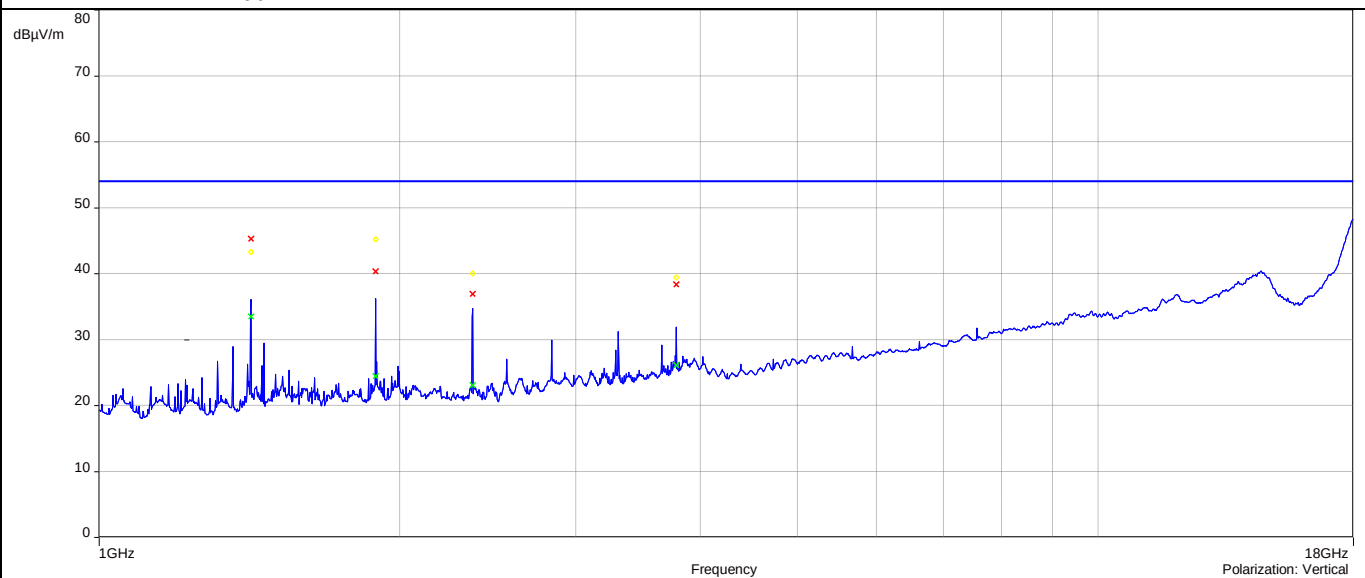
Messdiagramme zu Funkstörfeldstärke

#6

Graphical presentation of Radiated disturbance

Störfeldstärke (> 1 GHz) in Betriebszustand Lade- und Messbetrieb / Charging and measuring, A000209706-003

A000209706-010, Type 2245 SLM



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Messdaten zu Funkstörfeldstärke

#6

Measurement data of Radiated disturbance

Störfeldstärke (> 1 GHz) in Betriebszustand Lade- und Messbetrieb / Charging and measuring, A000209706-003

A000209706-010, Type 2245 SLM

Average (PASS) (7)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m) (dB)	Azimuth (°) (dB)	Pol. (dB)	Correction (dB)
1419.75	24.26	54.00	-29.74	1.04	246.40	Horizontal	-8.05
1892	38.63	54.00	-15.37	1.00	356.70	Horizontal	-5.10
2365.75	21.91	54.00	-32.09	1.00	188.20	Horizontal	-4.46
1419.25	33.43	54.00	-20.57	1.08	159.40	Vertical	-8.05
1892.75	24.43	54.00	-29.57	1.00	137.40	Vertical	-5.10
2365.75	23.08	54.00	-30.92	1.08	194.60	Vertical	-4.46
3784.75	26.08	54.00	-27.92	1.21	6.20	Vertical	0.12

Peak (PASS) (7)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m) (dB)	Azimuth (°) (dB)	Pol. (dB)	Correction (dB)
1419.75	42.14	74.00	-31.86	1.04	246.40	Horizontal	-8.05
1892	48.22	74.00	-25.78	1.00	356.70	Horizontal	-5.10
2365.75	41.14	74.00	-32.86	1.00	188.20	Horizontal	-4.46
1419.25	45.23	74.00	-28.77	1.08	159.40	Vertical	-8.05
1892.75	40.31	74.00	-33.69	1.00	137.40	Vertical	-5.10
2365.75	36.87	74.00	-37.13	1.08	194.60	Vertical	-4.46
3784.75	38.31	74.00	-35.69	1.21	6.20	Vertical	0.12

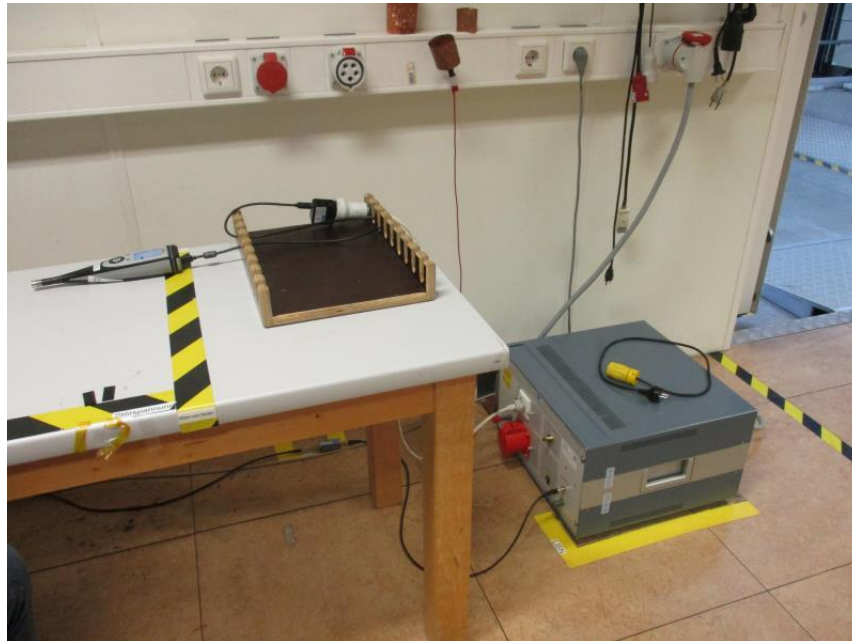
Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

FOTODOKUMENTATION
PHOTO DOCUMENTATION

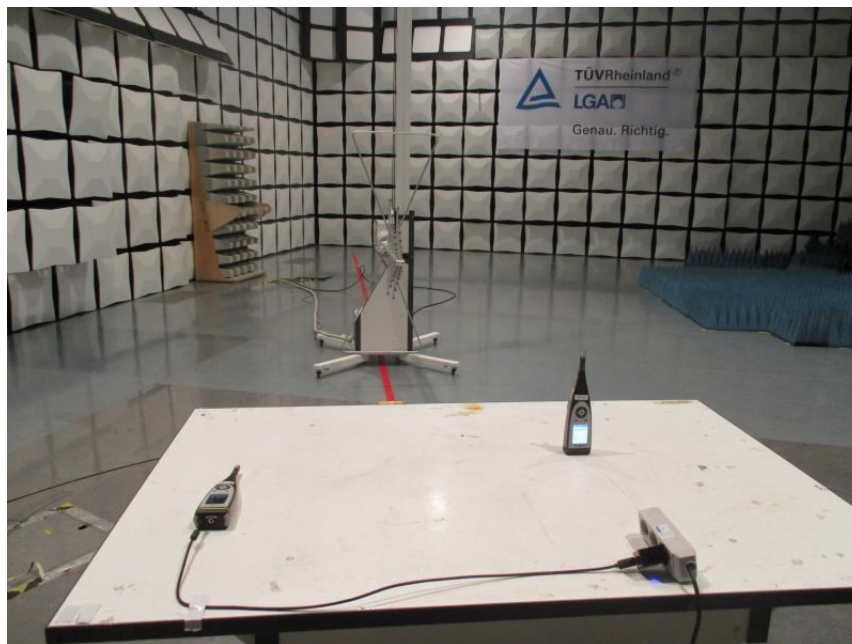
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Funkstörspannung
Conducted voltage emissions



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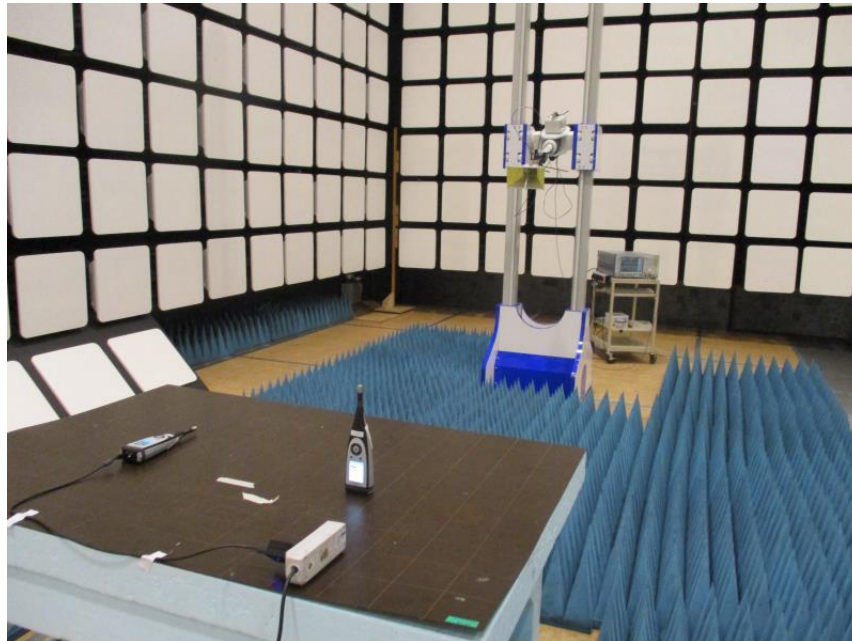
Funkstörfeldstärke
Radiated disturbance



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Funkstörfeldstärke
Radiated disturbance



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