



RF - TEST REPORT

- FCC Part 15B / ICES-003 -

Type / Model Name : HVIN 5E904029

Product Description : Transponder Reader MIFARE USB
RFID 13.56 MHz

Applicant : B&R Industrial Automation GmbH

Address : B&R Straße 1
A- 5142 Eggelsberg

Manufacturer : B&R Industrial Automation GmbH

Address : B&R Straße 1
A- 5142 Eggelsberg

Test Result according to the standards
listed in clause 1 test standards:

POSITIVE

Test Report No. : **80268456-03 Rev_2**

07. August 2026
Date of issue



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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 15 Subpart B - Unintentional Radiators (September 2025)

Part 15, Subpart B, Section 15.107

AC Line conducted emission

☒ Class A device

☐ Class B device

Part 15, Subpart B, Section 15.109

Radiated emission, general requirements

☒ Class A device

☐ Class B device

ANSI C63.4: 2014+C63.4a-2017

Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

CISPR 16-4-2: 2011 + A1: 2014
EN 55016-4-2: 2011

Uncertainty in EMC measurement

ISED Canada Rules and Regulations - Information Technology Equipment (Including Digital Apparatus)

ICES-003, Issue 7, October 15, 2020

AC Power Line Conducted Emissions

☒ Class A device

☐ Class B device

ICES-003, Issue 7, October 15, 2020

Radiated emission

☒ Class A device

☐ Class B device

ANSI C63.4: 2014

Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

2 TEST RESULT SUMMARY

FCC Rule Part	ISED Standard	Description
15.107	ICES-003 3.2.1	AC power line conducted emissions
15.109	ICES-003 3.2.2	Radiated Emissions

Type of test	Test result
Emission:	
A4 Conducted emission (AC mains power)	passed
A5 Radiated emission (< 1 GHz)	passed
SER 3 Radiated emission (> 1 GHz)	not applicable *)

*) Highest internal frequency 13.56 MHz

2.1 Revision history of test report

Test report No	Rev.	Issue Date	Changes
80268456-03	0	12 November 2025	Initial test report
80268456-03	1	05 May 2026	Page 3 of 18: ANSI C63.4-2014+C63.4a-2017 -> added +C63.4a-2017 Page 3 of 18: FCC Class A -> corrected Page 5 of 18: Operation mode adjusted Page 17 of 18: Calibration data updated for correct period
80268456-03	2	07 August 2026	Change Type/Model Name: HVIN 5E904029

The test report with the highest revision number replaces the previous test reports.

2.2 Final assessment

The equipment under test fulfills the requirements cited in clause 1 test standards.

Date of receipt of test sample : acc. to storage records

Testing commenced on : 22 October 2025

Testing concluded on : 23 October 2025

Checked by:


Klaus
Gegenfurtner
2026.08.07
12:41:47 +02'00'

Klaus Gegenfurtner
Team Lead Radio

Tested by:


Digital signiert von Markus
Friedl
DN: cn=Markus Friedl
Grund: I am the author of
this document
Datum: 2026.08.07
12:03:46 +02'00'

Markus Friedl
Radio Team

3 EQUIPMENT UNDER TEST

3.1 Information provided by the Client

Please note, we do not take any responsibility for information provided by the client or his representative which may have an influence on the validity of the test results.

3.2 Sampling

The customer is responsible for the choice of sample. Sample configuration, start-up and operation is carried out by the customer or according to his/her instructions.

3.3 Photo documentation of the EUT

Detailed photos see ATTACHMENT A and ATTACHMENT B

ATTACHMENT A: External views

ATTACHMENT B: Internal views

3.4 General remarks

None

3.5 Power supply system utilised

Power supply voltage : 5 V DC $\pm$ 20% (powered over USB)

All tests were carried out with a supply voltage of 5 V DC unless otherwise stated. Exceptions are described in the detailed test conditions.

3.6 Highest internal frequency

Highest internal frequency : 13.56 MHz

3.7 Short description of the Equipment under Test (EUT)

The EUT is a transponder reader which will be powered over USB - Port.

Number of tested samples: 1
Serial number: 367A0168429

3.8 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:
- Wired Data Exchange via USB

3.9 EUT configuration

The following peripheral devices and interface cables were connected during the measurements:

- HP Laptop Model: CSA-ID.: 02-01/01-15-009
- Power adapter Laptop Model: HP Part No.: 677774-003

Modifications during the EMC test: **None**

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

**CSA Group Bayern GmbH
Straubinger Straße 100
94447 PLATTILING
GERMANY**

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15 - 35 °C

Humidity: 30 - 60 %

Atmospheric pressure: 86 - 106 kPa

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. It is noted that the expanded measurement uncertainty corresponds to the measurement results from the standard measurement uncertainty multiplied by the coverage factor $k = 2$. The true value is located in the corresponding interval with a probability of 95 %. The measurement uncertainty was calculated for all measurements listed in this test report on basis of the ETSI Technical Report TR 100 028 Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1 and Part 2. The results are documented in the quality system acc. to DIN EN 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.

4.4 Conformity Decision Rule

The applied conformity decision rule is based on ILAC G8:09/2019 clause 4.2.1 Binary Statement for Simple Acceptance Rule ($w = 0$).

Details can be found in the procedure CSA_B_V50_29.

4.5 Measurement protocol for FCC and ISED

4.5.1 General information

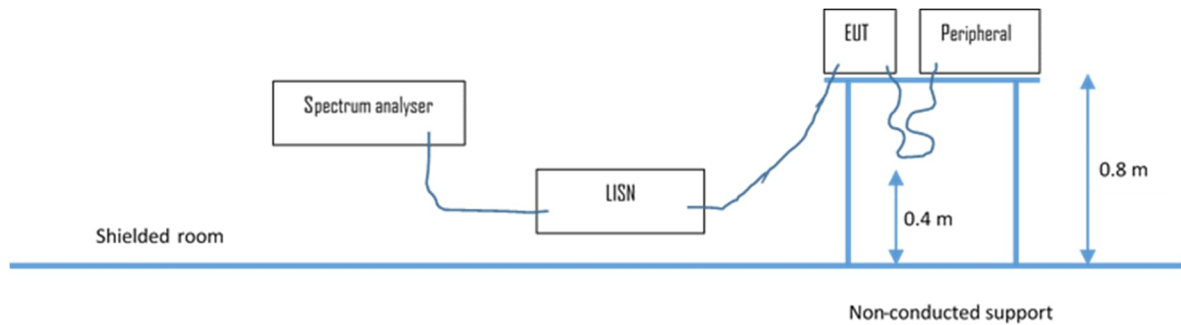
CSA Group Bayern GmbH is recognized as wireless testing laboratory under the CAB identifier:

**FCC: DE 0011
ISED: DE0009**

4.5.2 Details of test procedures

4.5.2.1 Conducted emission

Test setup according ANSI C63.4



Description of measurement

The final level, expressed in dB μ V, is arrived at by taking the reading directly from the Spectrum analyser. This level is compared to the limit.

To convert between dB μ V and μ V, the following conversions apply:

$$\text{dB}\mu\text{V} = 20(\log \mu\text{V})$$

$$\mu\text{V} = \text{Inverse log}(\text{dB}\mu\text{V}/20)$$

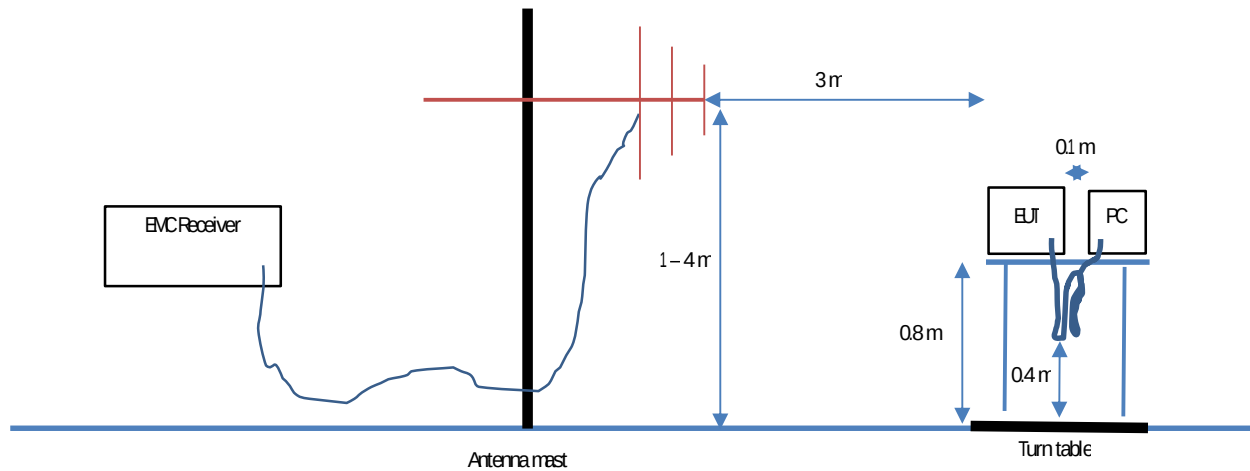
Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EUT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection and a Line Impedance Stabilization Network (LISN) with 50 Ω / 50 μ H (CISPR 16) characteristics. The receiver is protected by means of an impedance matched pulse limiter connected directly to the RF input. Table top equipment is placed on a non-conducting table 80 centimetres above the floor and is positioned 40 centimetres from the vertical ground plane (wall) of the screen room. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

If the minimum limit margin appears to be less than 20 dB with a peak mode measurement, the emission is re-measured using a tuned receiver with quasi-peak and average detection and recorded on the data sheets.

4.5.2.2 Radiated emission

4.5.2.2.1 Anechoic chamber, 30 MHz - 1 GHz

Test setup according ANSI C63.4



Description of measurement

Spurious emission from the EUT is measured in the frequency range of 30 MHz to 1000 MHz using a tuned receiver and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection. Table top equipment is placed on a 1.0 X 1.5 metre non-conducting table 80 centimetres above the ground plane. The interface cables that are closer than 40 centimetres to the ground plane are bundled in the centre in a serpentine fashion so that they are at least 40 centimetres from the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. If necessary to prevent direct metallic contact of the EUT and the reference ground plane, insulating material (up to 12 mm thick) shall be placed under the EUT. The setup of the equipment under test is established in accordance with ANSI C63.4. Cables to simulators/testers (if used in this test) are routed through the centre of the table and to a screened room located outside the test area.

The antenna is positioned 3 or 10 metres horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 metres, measurement scans are made with both horizontal and vertical antenna polarization planes and the EUT is rotated 360 degrees.

The final level is calculated in a calculation sheet by taking the reading from the EMI receiver (Level dBμV) and adding the correction factors and cable loss factor (Factor dB) on to it. The limit is subtracted from this result in order to provide the limit margin listed in the measurement protocols.

Example:

Frequency (MHz)	Reading (dBμV)	+	Correction* (dB/m)	=	Level (dBμV/m)	-	Limit (dBμV/m)	=	Dlimit (dB)
719.0	75.0	+	32.6	=	107.6	-	110.0	=	-2.4

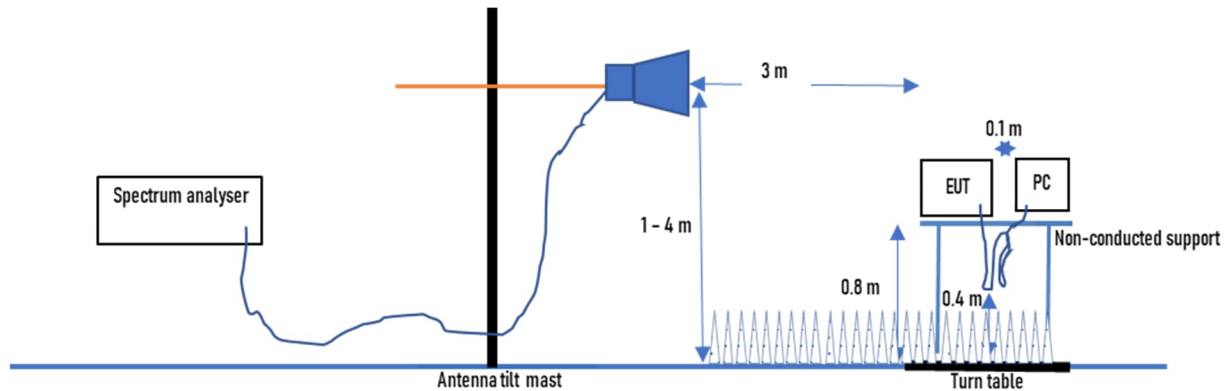
*Correction Factor = Antenna Factor + Cable Attenuation = 30 dB/m + 2.6 dB = 32.6 dB/m

The resolution bandwidth during the measurement is as follows:

30 MHz – 1000 MHz: RBW: 120 kHz

4.5.2.2.2 Anechoic chamber, 1000 MHz – 18000 MHz

Test setup according ANSI C63.4



Description of measurement

Radiated emission from the EUT are measured in the frequency range of 1 GHz to the maximum frequency as specified in 47 CFR Part 15 Subpart A section 15.33, using a tuned receiver (spectrum analyser) and appropriate linearly polarized antennas. Table top equipment is placed on a 0.65 X 1.0 metre non-conducting table 80 centimetres above the ground plane. The turntable is fully covered with the appropriate absorber (Type VHP-12).

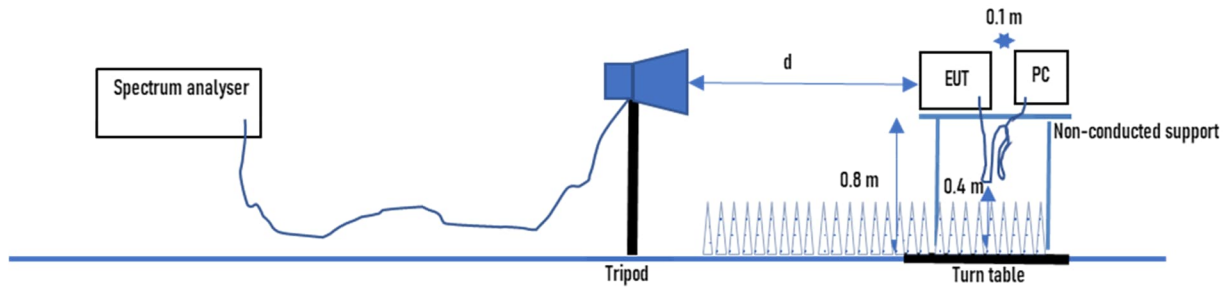
The interface cables that are closer than 40 centimetres to the ground plane are bundled in the centre in a serpentine fashion, so they are at least 40 centimetres from the ground plane. Measurements are made in both the horizontal and vertical polarization planes in a fully anechoic room using a spectrum analyser set to a peak detector function and a RBW= 1 MHz and VBW = 3 MHz. All tests are performed at a test distance of 3 metres. Hand-held or body-worn devices are rotated around three orthogonal axes in order to determine the position, angle and configuration having the maximum emission. The antenna height is then adjusted from 1 m to 4 m maximizing the measured value. The antenna is mounted to a boresight axis, so the antenna centre always points to the EUT. The turntable is rotated 360° until the spectrum analyser displays the maximum level at the observed frequency. The antenna height is then adjusted from 1 m to 4 m maximizing the measured value. The turntable is re-adjusted to re-affirm the maximum emission value which is then recorded. This procedure is repeated for all frequencies of interest.

For Floor standing equipment, additional consideration must be given:

Floor standing equipment is placed directly on the turntable/ground plane. If necessary to prevent direct metallic contact of the EUT and the reference ground plane, insulating material (up to 12 mm thick) shall be placed under the EUT. Excess I/O cables shall be bundled in the centre. If bundling is not possible, then the cables shall be arranged in serpentine fashion. Bundling shall not exceed 40 cm in length.

4.5.2.2.3 Anechoic chamber, 18 GHz – 40 GHz

Test setup according ANSI C63.4



Description of measurement

Radiated emission from the EUT are measured in the frequency range of 1 GHz to the maximum frequency as specified in 47 CFR Part 15 Subpart A section 15.33, using a tuned receiver (spectrum analyser) and appropriate linearly polarized antennas. Table top equipment is placed on a 0.65 X 1.0 metre non-conducting table 80 centimetres above the ground plane. The turntable is fully covered with the appropriate absorber (Type VHP-12).

The interface cables that are closer than 40 centimetres to the ground plane are bundled in the centre in a serpentine fashion, so they are at least 40 centimetres from the ground plane. Measurements are made in both the horizontal and vertical polarization planes in a fully anechoic room using a spectrum analyser set to a peak detector function and an RBW= 1 MHz and VBW = 3 MHz. All tests are performed at a test distance of 3 metres. Hand-held or body-worn devices are rotated around three orthogonal axes in order to determine the position, angle and configuration having the maximum emission. The turntable is rotated 360° until the spectrum analyser displays the maximum level at the observed frequency, the maximum emission value is then recorded. This procedure is repeated for all frequencies of interest.

Where appropriate in frequency range 18 GHz - 40 GHz, the test distance may be reduced to 1 m in order to reduce the noise level to hold a minimum distance between noise level and limit. The limit will be adopted to the measurement distance.

For Floor standing equipment, additional consideration must be given:

Floor standing equipment is placed directly on the turntable/ground plane. If necessary to prevent direct metallic contact of the EUT and the reference ground plane, insulating material (up to 12 mm thick) shall be placed under the EUT. Excess I/O cables shall be bundled in the centre. If bundling is not possible, then the cables shall be arranged in serpentine fashion. Bundling shall not exceed 40 cm in length.

5 TEST CONDITIONS AND RESULTS

5.1 Conducted emission

For test instruments and accessories used see section 6 Part A 4.

5.1.1 Description of the test location

Test location: Shielded Room SR2

5.1.2 Photo documentation of the test setup

See ATTACHMENT C to this test report.

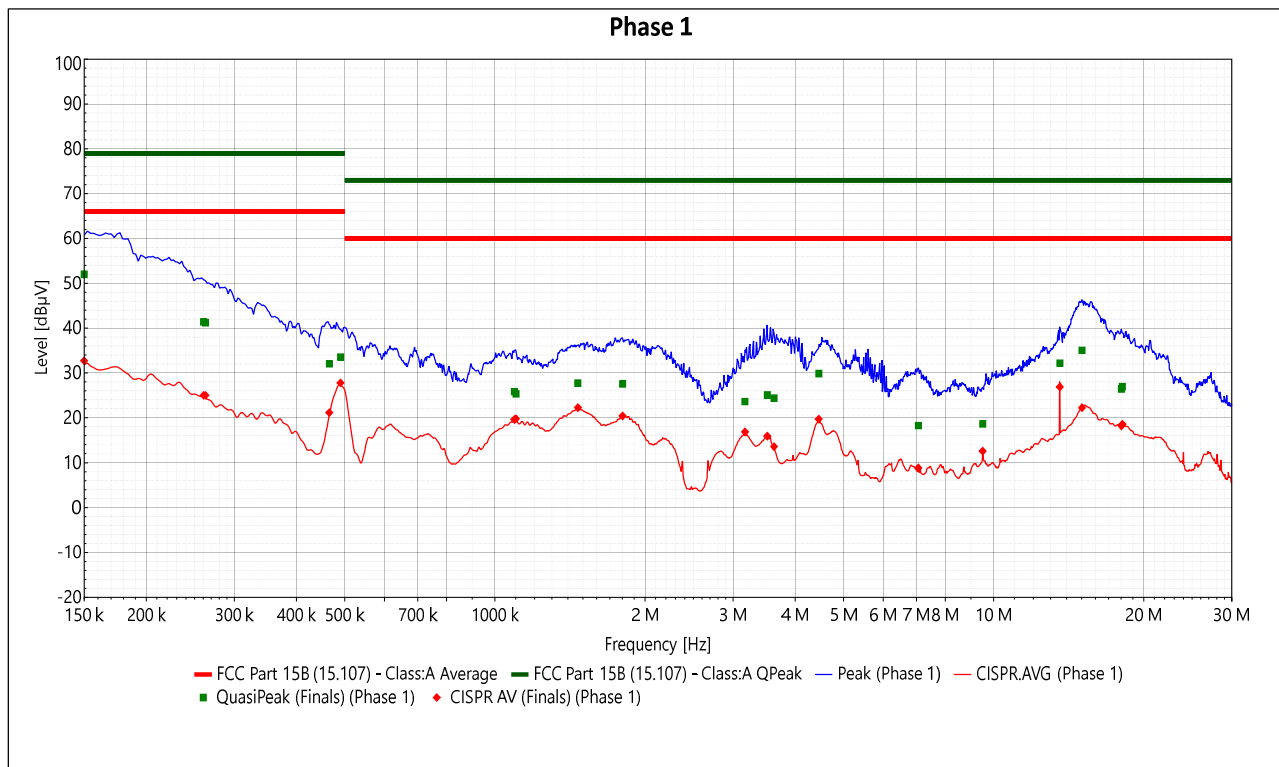
5.1.3 Test result

Frequency range: 0.15 MHz - 30 MHz
Min. limit margin 27 dB at 150 kHz

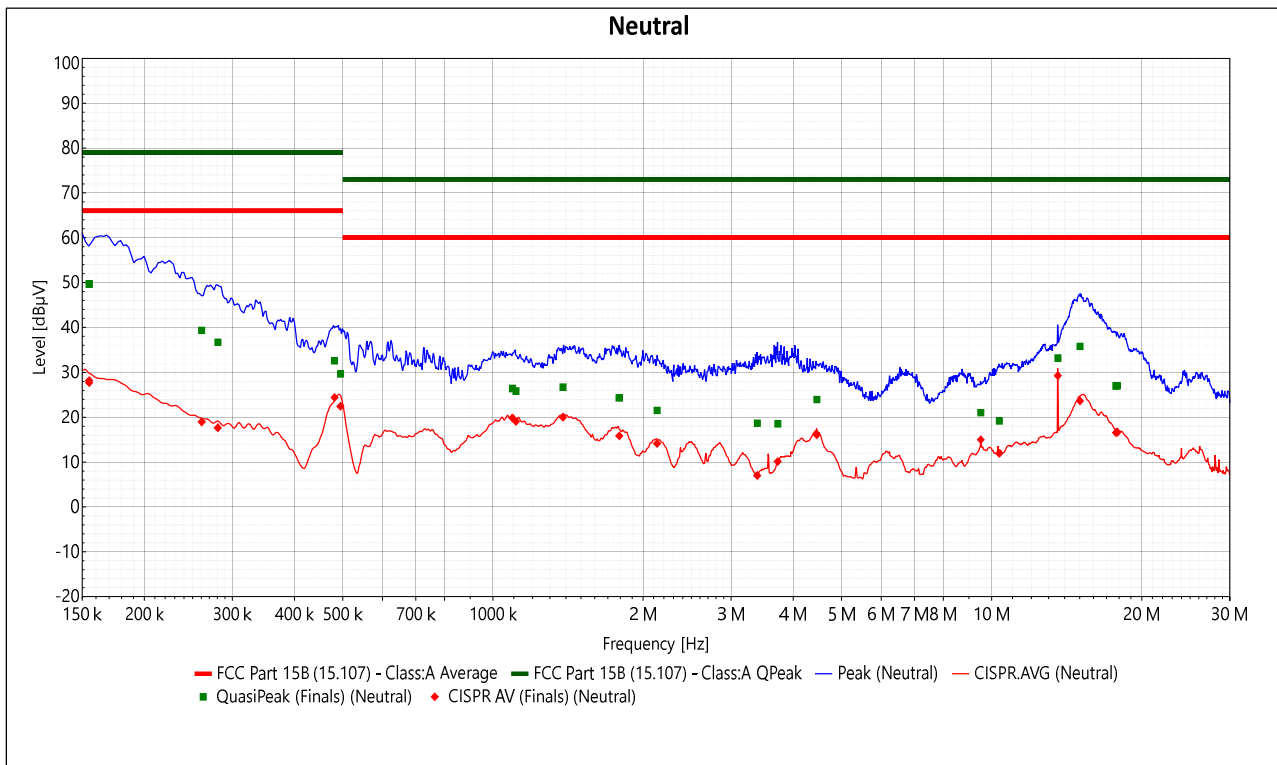
The requirements are **FULFILLED**.

Remarks: The EUT (DC 5V) is powered via USB. The USB port is connected to a laptop for the A4 test.
 The measurement was performed at the AC power input of the power adapter laptop.
 Test voltage: 120 V AC 60 Hz
 For detailed results, please see the following page(s).
 For description of the measurement see 4.5.2.

5.1.4 Test protocol



Frequency (Hz)	QuasiPeak (dBµV)	QP Margin	QP Limit (dBµV)	CISPR AV (dBµV)	CISPR AV Margin	AV Limit (dBµV)	Correction (dB)
150.004 k	52	-27	79	32.74	-33.26	66	10.37
260.496 k	41.4	-37.6	79	25.01	-40.99	66	10.36
262.746 k	41.23	-37.77	79	25.03	-40.97	66	10.36
465.246 k	32.05	-46.95	79	21.19	-44.81	66	10.39
489.996 k	33.56	-45.44	79	27.8	-38.2	66	10.39
1.093 M	25.84	-47.16	73	19.65	-40.35	60	10.49
1.102 M	25.36	-47.64	73	19.8	-40.2	60	10.49
1.466 M	27.76	-45.24	73	22.29	-37.71	60	10.54
1.802 M	27.58	-45.42	73	20.44	-39.56	60	10.57
3.172 M	23.62	-49.38	73	16.86	-43.14	60	10.65
3.514 M	25.1	-47.9	73	15.94	-44.06	60	10.65
3.626 M	24.41	-48.59	73	13.57	-46.43	60	10.65
4.457 M	29.9	-43.1	73	19.72	-40.28	60	10.63
7.06 M	18.27	-54.73	73	8.85	-51.15	60	10.53
9.501 M	18.65	-54.35	73	12.57	-47.43	60	10.58
13.562 M	32.21	-40.79	73	26.92	-33.08	60	10.73
15.027 M	35.04	-37.96	73	22.28	-37.72	60	10.8
18.031 M	26.45	-46.55	73	18.22	-41.78	60	11
18.11 M	26.95	-46.05	73	18.61	-41.39	60	11.01



Frequency (Hz)	QuasiPeak (dBµV)	QP Margin	QP Limit (dBµV)	CISPR AV (dBµV)	CISPR AV Margin	AV Limit (dBµV)	Correction (dB)
154.996 k	49.77	-29.23	79	28.17	-37.83	66	10.37
154.996 k	49.67	-29.33	79	27.7	-38.3	66	10.37
260.496 k	39.35	-39.65	79	18.94	-47.06	66	10.37
280.746 k	36.69	-42.31	79	17.64	-48.36	66	10.37
480.996 k	32.56	-46.44	79	24.41	-41.59	66	10.39
494.496 k	29.66	-49.34	79	22.43	-43.57	66	10.39
1.093 M	26.4	-46.6	73	19.82	-40.18	60	10.49
1.111 M	25.83	-47.17	73	19.05	-40.95	60	10.49
1.381 M	26.69	-46.31	73	20.01	-39.99	60	10.54
1.79 M	24.28	-48.72	73	15.83	-44.17	60	10.58
2.132 M	21.52	-51.48	73	14.11	-45.89	60	10.62
3.386 M	18.65	-54.35	73	7	-53	60	10.67
3.723 M	18.5	-54.5	73	10.13	-49.87	60	10.67
4.457 M	23.95	-49.05	73	16.03	-43.97	60	10.65
9.503 M	21.02	-51.98	73	14.96	-45.04	60	10.68
10.349 M	19.16	-53.84	73	11.92	-48.08	60	10.73
13.562 M	33.19	-39.81	73	29.27	-30.73	60	10.93
15.027 M	35.78	-37.22	73	23.63	-36.37	60	11.03
17.743 M	26.98	-46.02	73	16.55	-43.45	60	11.22
17.864 M	27	-46	73	16.63	-43.37	60	11.23

5.2 Radiated emission < 1 GHz (electric field)

For test instruments and accessories used see section 6 Part **SER 2**.

5.2.1 Description of the test location

Test location: Anechoic chamber SAC3

Test distance: 10 m

5.2.2 Photo documentation of the test setup

See ATTACHMENT C to this test report.

5.2.3 Test result

Frequency range: 30 MHz - 1000 MHz
Min. limit margin 44.48 dB at 845.31 MHz

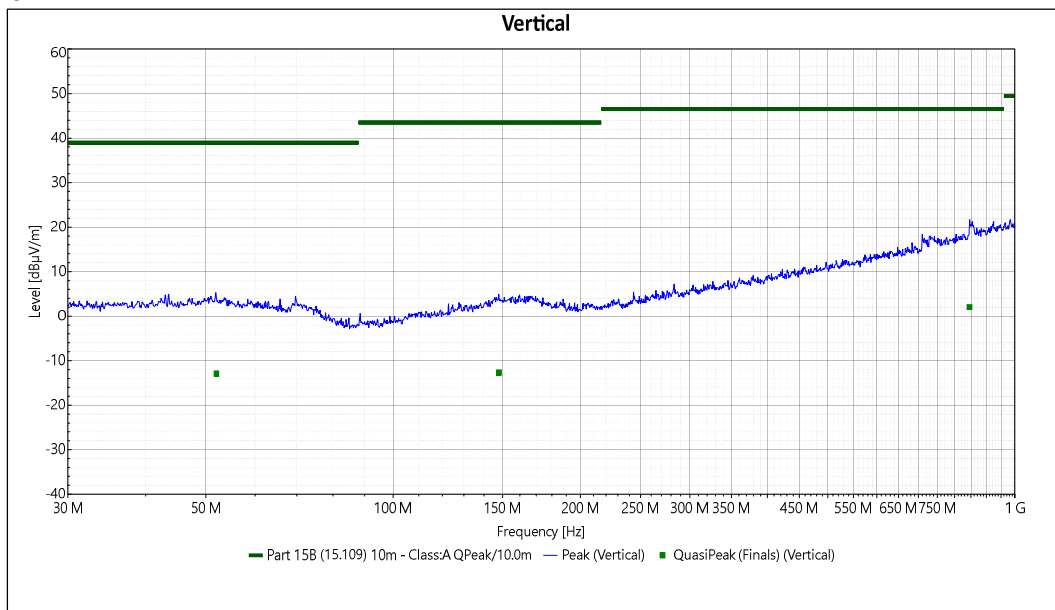
The requirements are **FULFILLED**.

Remarks: For detailed results, please see the following page(s).

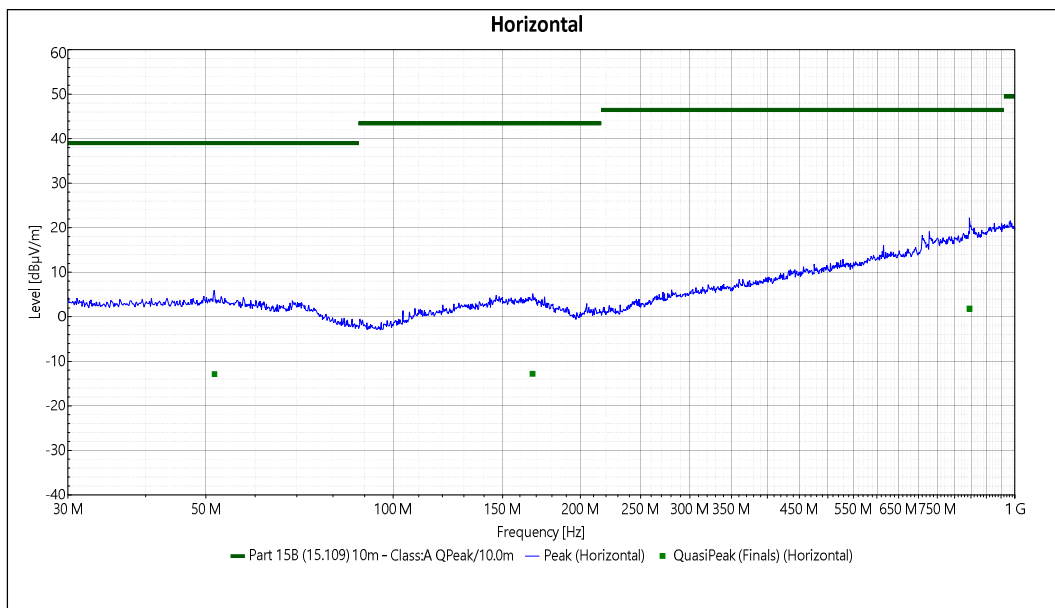
For description of the measurement see 4.5.2.

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

5.2.4 Test protocol



Frequency (Hz)	QuasiPeak (dBµV/m)	QP Margin	QP Limit (dBµV/m)	Angle	Height	polarization	RBW (Hz)	Correction (dB)
51.987 M	-12.87	-51.87	39	138.06	1.49	Vertical	120000	-10.1
147.935 M	-12.68	-56.18	43.5	51.95	3.5	Vertical	120000	-10.22
845.306 M	2.02	-44.48	46.5	133.37	2.81	Vertical	120000	3.08



Frequency (Hz)	QuasiPeak (dBµV/m)	QP Margin	QP Limit (dBµV/m)	Angle	Height	polarization	RBW (Hz)	Correction (dB)
51.618 M	-12.88	-51.88	39	114.93	3.81	Horizontal	120000	-10.03
167.629 M	-12.8	-56.3	43.5	358.58	1.83	Horizontal	120000	-10.28
844.921 M	1.84	-44.66	46.5	332.05	2.83	Horizontal	120000	3.06

6 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.
All listed measuring devices were calibrated at the time of use.

Test ID	Model Type	Kind of Equipment	Manufacturer	Equipment No.	Next Calib.	Last Calib.	Next Verif.	Last Verif.
A 4	6430	Programmable AC Source	Power Control Electronic GmbH & Co. KG	02-02/50-13-014				
Test data: 23.10.2025	ESR3	EMI Test Receiver	Rohde & Schwarz Memmingen	09-02/03-21-001	16/07/2026	16/07/2025		
	ENV432	V-Netznachbildung	Rohde & Schwarz Memmingen	09-02/20-21-001	02/09/2026	02/09/2024	30/07/2026	30/07/2025
	KK-SPU195FR01-2X11_N-50-3-64	Kabelkonf. Spuma_195-FR-	Huber + Suhner	09-02/50-21-031				
	KK-SPU195FR01-2X11N-3,5M	Kabelkonf. Spuma_195-FR-	Huber + Suhner	09-02/50-21-037				
	CDB-10K-18-50V-NMF-I	DC Blocker	Tactron Elektronik	09-02/50-22-033			04/06/2026	04/06/2025
	BAT-EMC 2024.0.12.0	Nexio Software	EMCO Elektronik GmbH	09-02/68-21-002				
SER 2	ESR 7	EMI Test Receiver	Rohde & Schwarz München	02-02/03-17-001	27/10/2025	22/10/2024		
Test data: 22.10.2025	VULB 9168	Trilog Broadband Antenna	Schwarzbeck Mess-Elektronik	02-02/24-05-005	08/05/2026	08/05/2025	22/05/2026	22/05/2025
	6430	Programmable AC Source	Power Control Electronic GmbH & Co. KG	02-02/50-13-014				
	BBV 9745	Preamplifier	Schwarzbeck Mess-Elektronik	09-02/17-23-002	12/03/2026	12/03/2025		
	SAC3 - NSA 10m	NSA ANSI C63.4	CSA Group Bayern GmbH	09-02/30-24-028			04/08/2026	04/08/2025
	50F-003 N 3dB	Attenuator 3dB	Tactron Elektronik	09-02/50-22-002				
	KK-SF118-2X11N-6.5M	RF Cable	Huber + Suhner	09-02/50-23-035				
	KK-SF526S-11PC35-11N-4.0M	RF Cable	Huber + Suhner	09-02/50-23-037				
	KK-SF526S-2X11N-10.0M	RF Cable	Huber + Suhner	09-02/50-23-042				
	BAT-EMC 2024.0.12.0	Nexio Software	EMCO Elektronik GmbH	09-02/68-21-002				

7 Detailed measurement uncertainty

7.1 Overview

Measurement instrumentation uncertainty shall be taken into account when determining compliance or non-compliance with a disturbance limit.

The measurement instrumentation uncertainty for a test laboratory shall be evaluated. The standard uncertainty $u(x_i)$ in decibels and the sensitivity coefficient c_i shall be evaluated for the estimate x_i of each quantity. The combined standard uncertainty $u_c(y)$ of the estimate y of the measurand shall be calculated as

$$u_c(y) = \sqrt{\sum_i c_i^2 u^2(x_i)}$$

The expanded measurement instrumentation uncertainty U_{lab} for a test laboratory shall be calculated as $U_{lab} = 2 u_c(y)$

$$U_{lab} = 2 u_c(y)$$

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} in the table below, then:

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} in the table below, then:

- compliance is deemed to occur if no measured disturbance, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.
- non-compliance is deemed to occur if any measured disturbance, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

7.2 Definitions and symbols

X_i	Input quantity
x_i	estimate of X_i
$u(x_i)$	standard uncertainty of x_i
c_i	sensitivity coefficient
$u_c(y)$	(combined) standard uncertainty of y
Y	result of a measurement, (the estimate of the measured), corrected for all recognised significant systematic effects
U	expanded uncertainty of y

7.3 Measurement uncertainty

Measurement	U_{lab} [dB]
Conducted disturbance	+ 2.53 / - 2.77
Radiated disturbance (electric field)	
- 10 m test distance	+ 3.16 / - 3.22
- 3 m test distance	+ 3.16 / - 3.22
- Frequency range: 30 MHz – 200 MHz	
Radiated disturbance (electric field)	
- 10 m test distance	+ 4.51 / - 4.51
- 3 m test distance	+ 4.51 / - 4.51
- Frequency range: 200 MHz – 1000 MHz	
Radiated disturbance (electric field)	
- 3 m test distance	+ 5.07 / - 3.70
- Frequency range: 1 GHz – 30 GHz	