Report on the FCC and IC Testing of the Bernstein AG Safety switch Model: SLO-5

In accordance with FCC 47 CFR Part 15 C and ISED RSS-210 and ISED RSS-Gen

Prepared for: Bernstein AG
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COMMERCIAL-IN-CONFIDENCE

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RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Project Management	Alexander Grill	2026-03-26	SIGN-ID 1118106
Authorised Signatory	Alex Fink	2026-03-26	SIGN-ID 1119670

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

Engineering Statement:

This measurement shown in this report were made in accordance with the procedures described on test pages.
All reporded testing was carried out on a sample equipment to demonstrate limited compilance with with FCC 47 CFR Part 15 C and ISED RSS-210 and RSS-GEN.
The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Alexander Grill	2026-03-26	SIGN-ID 1118107

Laboratory Accreditation	Laboratory recognition	Industry Canada test site registration
DAkkS Reg. No. D-PL-11321-11-02 DAkkS Reg. No. D-PL-11321-11-03	Registration No. BNetzA-CAB-16/21-15	3050A-2

Executive Statement:

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15 C:2024 and ISED RSS-210 : 2024 and ISED RSS-Gen : 2018 + Amd.1 : 2019 + Amd.2 : 2021

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Content

1 Report Summary

1.1 Modification Report

Alternations and additions of this report will be issued to the holders of each copy in the form of a complete document. Current version replaces all previous versions.

Revision	*Description of changes*	*Date of Issue*
0	---	2026-03-26

Table 1: Report of Modifications

1.2 Introduction

Applicant	Bernstein AG
Manufacturer	Bernstein AG
Model Number(s)	SLO-5
Manufacturer declared variant (s)	SLO-2, SLO-6 and SLO-7 with PCBA 5901240091 (HVIN: BAG-RF-07) or 5901240092 (HVIN: BAG-RF-08)
Serial Number(s)	6018300036 / SLO-5/M1/31-L-F0,22
Hardware Version(s)	SLO-5 with PCBA 5901240091 (HVIN: BAG-RF-07) (fully equipped version)
Software Version(s)	5417210167
Number of Samples Tested	1
Test Specification(s) / Issue / Date	FCC 47 CFR Part 15 C : 2024 and ISED RSS-210, Issue 11 : 2024 ISED RSS-Gen, Issue 5 : 2018 + Amd. 1 : 2019, Amd. 2 : 2021
Test Plan/Issue/Date	---
Order Number	ZA_22-1097
Date	2025-11-21
Date of Receipt of EUT	2026-02-19
Start of Test	2026-02-24
Finish of Test	2026-02-26
Name of Engineer(s)	Alexander Grill
Related Document(s)	ANSI C63.10:2020

1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15 C and ISED RSS-210 and RSS-Gen is shown below.

Section	*Specification Clause*	*Test Description*	*Result*
2.1	15.215(c)	Bandwidth of Signal	Pass
2.2	15.209	Radiated Emissions	Pass
2.4	15.107	Conducted Emissions at Mains Terminal	Pass
2.5	15.203	Antenna requirement	Pass

Table 2: Results according to FCC 47 CFR Part 15 C

Section	*Specification Clause*	*Test Description*	*Result*
2.2	7.3	Radiated Emissions	Pass

Table 3: Results according to ISED RSS-210

Section	*Specification Clause*	*Test Description*	*Result*
2.1	6.7	Bandwidth of Signal	Pass
2.3	8.11	Temperature Stability	Pass
2.2	8.9, 8.10	Radiated Emissions	Pass
2.4	8.8	AC Power Line Conducted Emissions	Pass

Table 4: Results according to ISED RSS-Gen

1.4 Product Information

1.4.1 Technical Description

Supply Voltage:	Nominal: 24 V DC Minimum: 19.2 V DC Maximum: 30 V DC
Supply Frequency:	DC
Highest clock frequency:	32 MHz
Type of equipment:	Safety switch
Frequency band:	RFID: 125 kHz

- Marking plate

Representative AC / DC power supply for Conducted Emission testing:

Representative power supply

1.4.2 List of Antennas

Technology	*Frequency*	*Antenna type*
RFID	125 kHz	Internal ferrite antenna

Table 5: List of antennas

1.4.3 EUT Ports / Cables identification

Port	Max Cable Length specified	Usage	Type	Screened
M12 male connector (12-pole)	<30 m	0,2 m	DC power (+/-) and signal / control port	unshielded
AC Mains of external power supply	---	1 m	AC power	unshielded

Table 6

1.5 Test Configuration

Configuration	Description
24 V DC powered	The EUT was powered with 24 V DC via peripheral device (Safety Relay).
120 V / 60 Hz AC powered	The peripheral device was powered with 120 V / 60 Hz via representative power supply.

Table 7

1.6 Modes of Operation

Mode	Description
Continuous working mode in state closed	The Actuator is in the ‘closed’ state. - SLO energized - Actuator in the SLO - SLO locked (Lock control (PIN 8) high) - OSSD outputs on - Door status output 1 off - Door status output 2 on

Table 8

1.7 Support Equipment

Instrument	Manufacturer	Type No	Serial Num-ber	Calibration Period	Calibration Due
Safety Relay	Bernstein AG	SCR ON4-W22-3.6-S	6075111020	---	---
Power supply	MEAN WELL	GST90A24	SC101V3063	---	---

Table 9

1.8 EUT Modifications Record

The table below details modifications made to the EUT during the test programme.
The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	As supplied by the customer	Not Applicable	Not Applicable

Table 10

1.9 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing test laboratory:

Test Name	Name of Engineer(s)
Bandwidth of Signal	Alexander Grill
Radiated Emissions	Alexander Grill
Frequency Tolerance	Alexander Grill
Conducted Emissions	Alexander Grill
Antenna Requirement	Alexander Grill

Office Address:
Äußere Frühlingstraße 45
94315 Straubing
Germany

2 Test Details

2.1 Bandwidth of Signal

2.1.1 Specification Reference

FCC 47 CFR Part 15 C, Clause 15.215(c)
ISED RSS-Gen, Clause 6.7

2.1.2 Equipment under Test and Modification State

SLO-5, S/N: 6018300036 / SLO-5/M1/31-L-F0,22 - Modification State 0

2.1.3 Date of Test

2026-02-25

2.1.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	39 %

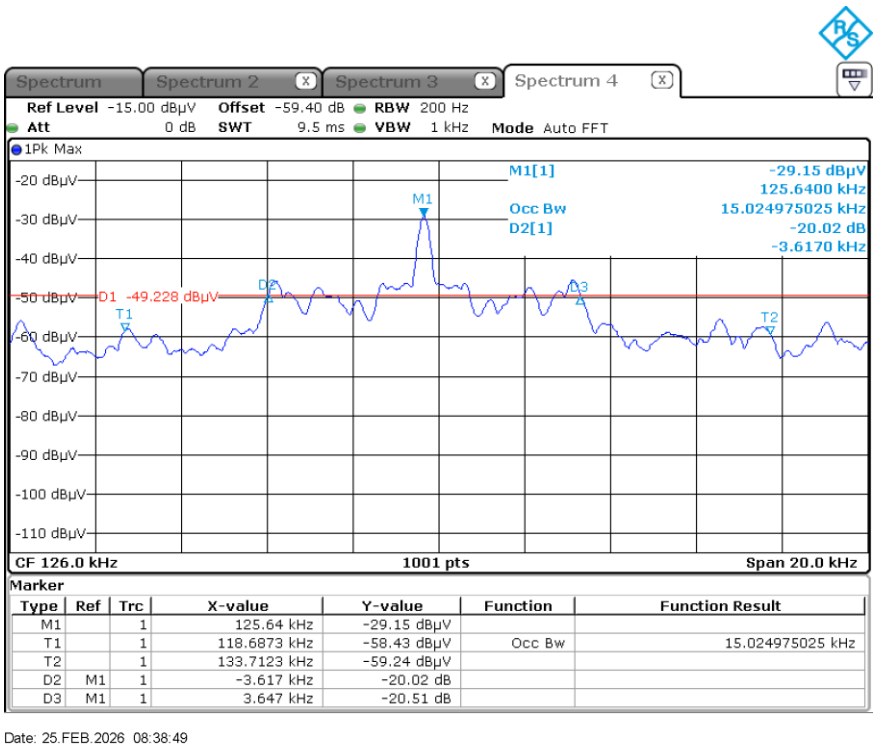
2.1.5 Specification Limits

No limitation – Bandwidth noted

2.1.6 Test Method

The test was performed according to ANSI C63.10, clauses 6.9
See section 2.2 of this test report for details.

2.1.7 Test Results



Note: The amplitude of the signal is too low for a Frequency Span of 2-5 times the OBW.

Center frequency	*20 dB Bandwidth*
125.94 kHz	7.264 kHz

Table 11: 20 dB bandwidth

Centre Frequency	*99% Bandwidth*
126.1998 kHz	15.024975025 kHz

Table 12: 99% bandwidth

2.1.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

Instrument	*Manufacturer*	*Type No*	*TE No*	*Calibration Period (months)*	*Calibration Due*
Signal and spectrum analyzer	Rohde & Schwarz	FSV40	20219	24	2026-03-31
Climatic test chamber	ESPEC	PL-4J	38958	24	2026-09-06

Table 13

2.2 Radiated Emissions

2.2.1 Specification Reference

FCC 47 CFR Part 15 C, Clauses 15.205, and 15.209
ISED RSS-210, Clause 7.7
ISED RSS-Gen, Clauses 8.9 and 8.10

2.2.2 Equipment under Test and Modification State

SLO-5, S/N: 6018300036 / SLO-5/M1/31-L-F0,22 - Modification State 0

2.2.3 Date of Test

2026-02-25

2.2.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	39 %

2.2.5 Specification Limits

General radiated emission limits:					
Frequency Range (MHz)	*Test distance (m)*	*Field strength*		*Field strength*	
		(µA/m)	*(dBµA/m)*	*(µV/m)*	*(dBµV/m)*
0.009 – 0.49	300	6.37 / *f*	20*lg(6.37 / *f*)	2400 / *f*	20*lg(2400 / *f*)
0.49 – 1.705	30	63.7 / *f*	20*lg(63.7 / *f*)	24000 / *f*	20*lg(24000 / *f*)
1.705 - 30	30	0.08	20*lg(0.08 / *f*)	30	20*lg(30 / *f*)
30 – 88	3	---	---	100	40
88 – 216	3	--	---	150	43.5
126 – 960	3	--	---	200	46
above 960	3	--	---	500	54
Note 1: *f* in kHz					

Table 14 General radiated emission limits

At frequencies at or above 30 MHz, measurements may be performed at distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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 (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements.

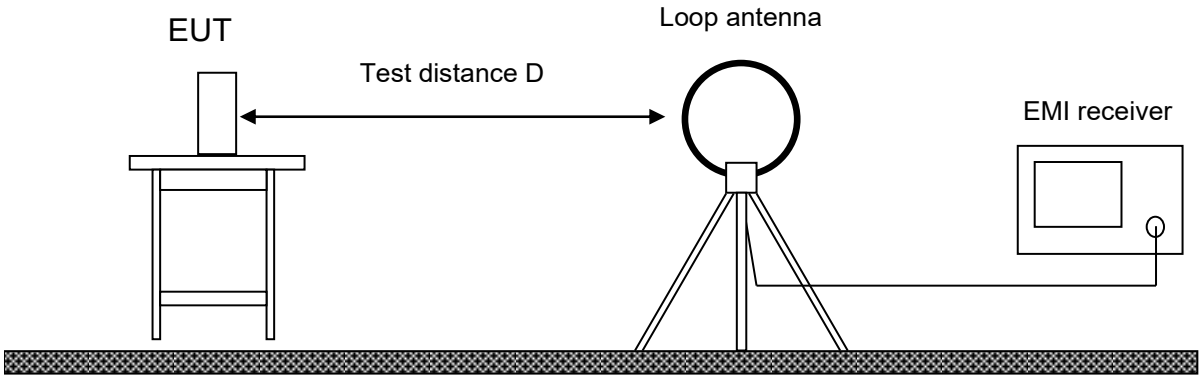
At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempts should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

2.2.6 Test Method

The test was performed according to ANSI C63.10, sections 11.11 and 11.12

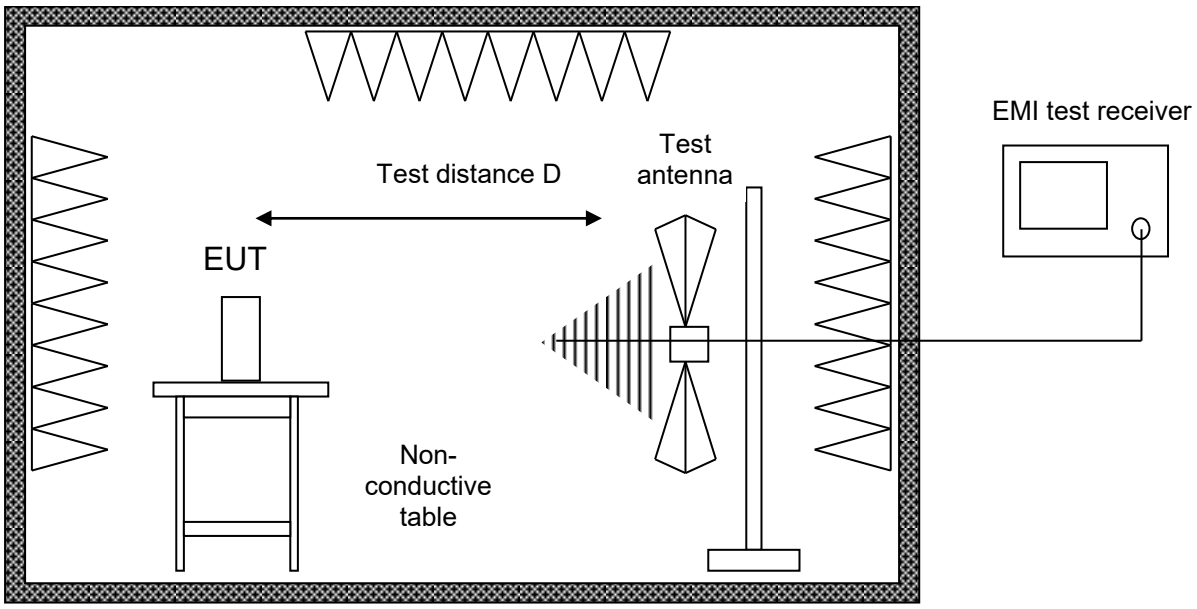
Prescans are performed in six positions of the EUT to get the full spectrum of emission caused by the EUT with the measuring antenna raised and lowered from 1 m to 4 m with vertical and horizontal polarisation to find the combination of table position, antenna height and antenna polarisation for the maximum emission levels.
Data reduction is applied to these results to select those levels having less margin than 10 dB or exceeding the limit using subranges and limited number of maximums.
Further maximisation for adjusting the maximum position is following.
Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

2.2.6.1 Frequency range 9 kHz – 30 MHz



The EUT was placed on a non-conductive table, 0.8 m above the ground.
Radiated emissions in the frequency 9 kHz – 30 MHz is measured within a semi-anechoic room with an active loop antenna with the measurement detector set to peak. In addition in the frequency range 9 kHz to 490 kHz also an average detector was used. The measurement bandwidth of the receiver was set to 300 Hz in the frequency range 9 kHz to 150 kHz and 10 kHz in the frequency range 150 kHz to 30 MHz. Prescans were performed in six positions of the EUT.
For final measurements the detector was set to CISPR quasi-peak and in addition to CISPR average in the frequency range 9 kHz to 490 kHz with a resolution bandwidth 200 Hz in the frequency range 9 kHz to 150 kHz and 9 kHz in the frequency range 150 kHz to 30 MHz. Final tests were performed immediately after a final frequency and zoom (for drifting disturbances) and maximum adjustment.

2.2.6.2 Frequency range 30 MHz – 1 GHz



Alternate test site (semi anechoic room)

The EUT was placed on a non-conductive table, 0.8 m above the ground plane
Radiated emissions in the frequency range 30 MHz – 1 GHz is measured within a semi-anechoic room with groundplane complying with the NSA requirements of ANSI C63.4. for alternative test sites. A linear polarised logarithmic periodic antenna combined with a 4:1 broadband dipole (“Trilog broadband antenna”) is used.
For prescan tests the test receiver is set to peak-detector with a bandwidth of 120 kHz.
With the measurement bandwidth of the test receiver set to 120 kHz CISPR quasi-peak detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.

2.2.7 Test Results

Frequency range	*Limit applied*	*Test distance*
9 kHz – 30 MHz	15.209	3 m
30 MHz – 1 GHz	15.209	3 m

Table 15

Sample calculation:

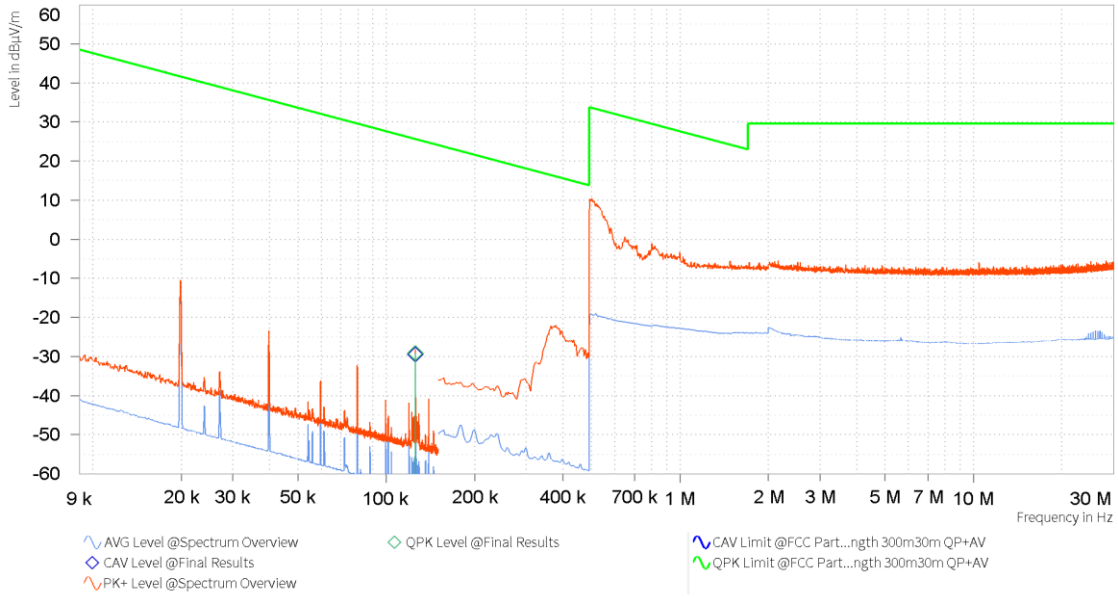
Final Value (dBµV/m) = Reading Value (dBµV) + (Cable attenuation (dB) + Antenna Transducer (dB(1/m)))

Additional correction factor for plots below:

Additional correction of level in the frequency range 9 – 490 kHz (300 m to 3 m): -80 dB
Additional correction of level in the frequency range 490 kHz – 30 MHz (30 m to 3 m): -40 dB

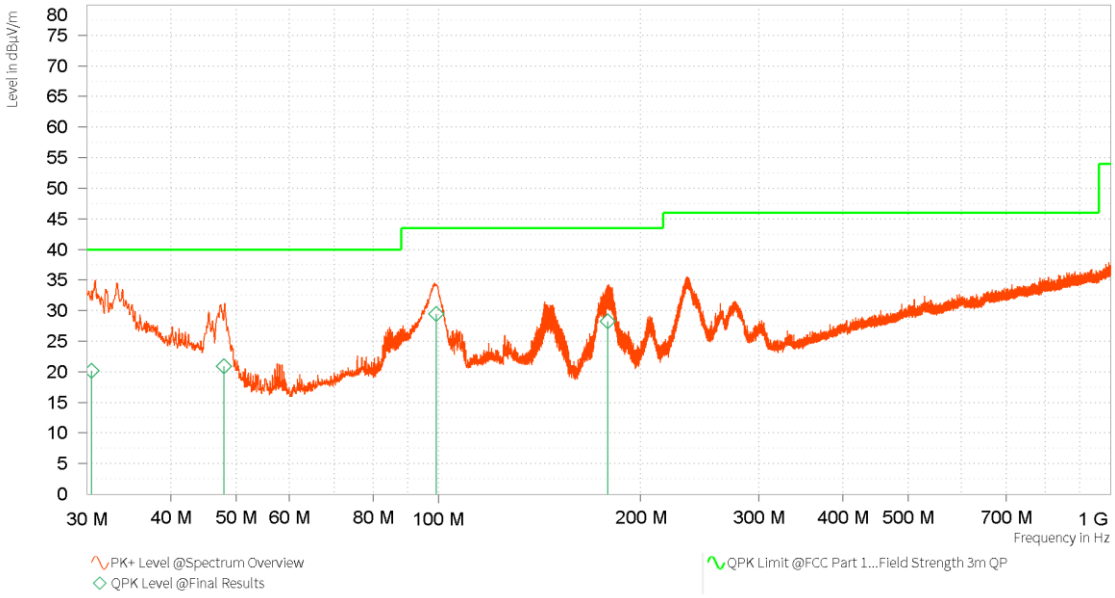
Note:
Additional correction up to 30 MHz is based on 40 dB/dec. correction factor for measurements on different distance as defined in the limit definition for the frequency range below 30 MHz.

Frequency range 9 kHz – 30 MHz:



Rg	Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	CAV Level [dBµV/m]	CAV Limit [dBµV/m]	CAV Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [s]
1	0.126	-29.16	25.62	54.78	-29.39	25.62	55.01	-60.62	H	-93	1.00	0.200	1.000

Frequency range 30 MHz – 1 GHz:



Rg	Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [s]
1	30.480	20.18	40.00	19.82	24.93	V	17	1.06	120.000	15.000
1	48.000	20.88	40.00	19.12	14.20	V	99	1.00	120.000	15.000
1	99.270	29.46	43.52	14.06	16.78	H	-61	2.71	120.000	15.000
1	178.560	28.22	43.52	15.30	16.46	H	-75	2.50	120.000	15.000

2.2.8 Test Location and Test Equipment

The test was carried out in semi anechoic room, cabin No. 11

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
EMI test receiver	Rohde & Schwarz	ESW44	39897	12	2026-03-31
Loop antenna	Schwarzbeck	FMZB 1519 C	72526	36	2028-01-31
Semi anechoic room	Frankonia	Cabin no. 11	42961	---	---
ELEKTRA measurement software	Rohde & Schwarz	ELEKTRA K11 Emission – V5.11.1	68263	---	---
ULTRALOG Antenna	Rohde & Schwarz	HL562E	61486	36	2026-04-30
Fixed attenuator	Rohde & Schwarz	HL562E-ATT 6dB	61491	36	2026-04-30

Table 16

2.3 Temperature Stability

2.3.1 Specification Reference

ISED RSS-Gen, Clause 6.11, 8.11

2.3.2 Equipment under Test and Modification State

SLO-5, S/N: 6018300036 / SLO-5/M1/31-L-F0,22 - Modification State 0

2.3.3 Date of Test

2026-02-25

2.3.4 Environmental Conditions

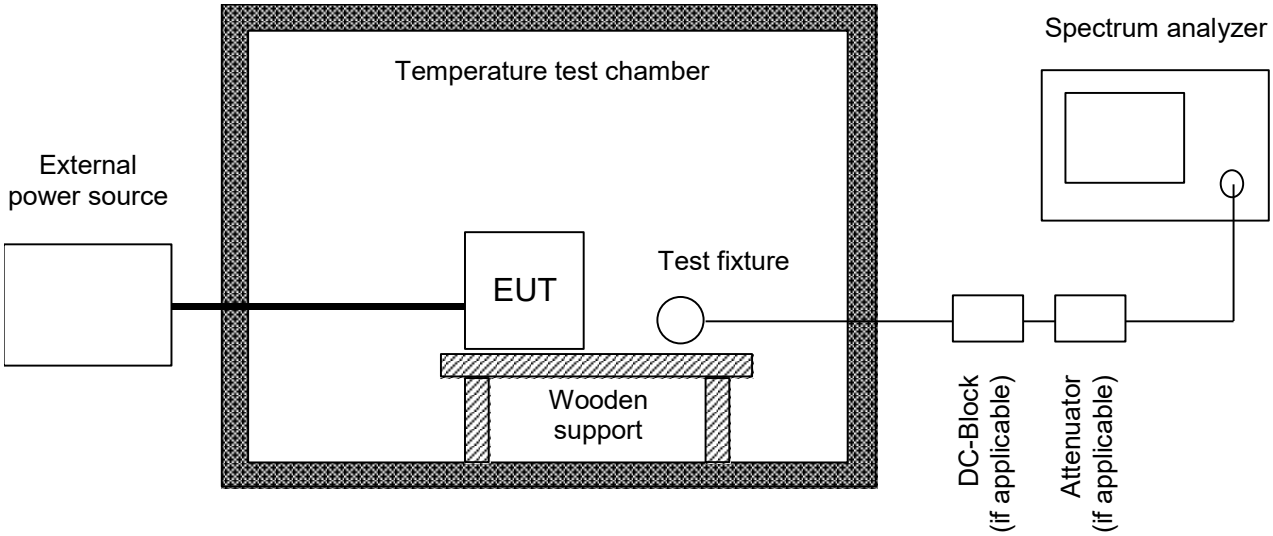
Ambient Temperature	22 °C
Relative Humidity	39 %

2.3.5 Specification Limits

If the stability of the license-exempt radio apparatus is not specified in the applicable RSS, the fundamental emissions of the radio apparatus should be kept within at least the central 80 % of its permitted operating frequency band in order to minimize the possiblilty of out-of-band operation. In additions, its occupied bandwidth shall be entirely outside the resitricted bands and the prohibited TV bands of 85 MHz – 72 MHz, 76 MHz – 88 MHz, 174 MHz – 216 MHz, and 470 MHz – 602 MHz, unless otherwise indicated.

2.3.6 Test Method

The test was performed according to ANSI C63.10, section 6.8.



The frequency tolerance of the carrier signal is measured over a temperature variation of -20 °C to +50 °C at normal supply voltage, and for a variation in the primary supply voltage from 85 % to 115 % of the rates supply voltage at a temperature of 20 °C. Temperature and voltage range may vary if the manufacturer states another temperature or voltage range.
If the EUT provides an antenna connector the spectrum analyzer is connected to this port. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as a DC block and appropriate (50 Ω) attenuators. In case where the EUT does not provide an antenna connector or a test fixture is used.
For battery operated equipment, the test is performed using a new battery. Alternatively, an external supply voltage can be used and is at least set to:

- The maximum battery voltage as delivered by a new battery or 115 % of the battery nominal voltage;
- The battery nominal voltage
- 85 % of the battery nominal voltage
- The battery operating end point voltage which shall be specified by the equipment manufacturer.

The EUT is operating providing an unmodulated carrier for frequency error tests. The peak detector of the spectrum analyzer is selected and resolution as well as video bandwidth are set to values appropriate to shape of the spectrum of the EUT. The frequency counter mode of the spectrum analyzer is used to maximize the accuracy of the measured frequency tolerance.
If an unmodulated carrier is not available a significant and stable point of the spectrum is selected and the span is reduced to a value that delivers an accuracy which shall be better than 1 % of the maximum frequency tolerance allowed for the carrier signal. This method may be performed as long as the margin to the frequency tolerance is larger than the uncertainty of the measured frequency tolerance.

2.3.7 Test Results

Temperature	*Voltage*	f_C	*Frequency drift*	*Frequency drift*
-20 °C	24 VDC	126.24975 kHz	0.04995 Hz	0.3956 ppm
-10 °C	24 VDC	126.2597 kHz	0.0599 Hz	0.4744 ppm
0 °C	24 VDC	126.2298 kHz	0.03 Hz	0.2377 ppm
10 °C	24 VDC	126.1998 kHz	0 Hz	0.00 ppm
20 °C	19.2 VDC	126.1598 kHz	-0.03 Hz	-0.2378 ppm
20 °C	24 VDC	126.1998 kHz	0 Hz	0.00 ppm
20 °C	30 VDC	126.1998 kHz	0 Hz	0.00 ppm
30 °C	24 VDC	126.1199 kHz	-0.0799 Hz	-0.6335 ppm
40 °C	24 VDC	126.1622 kHz	-0.0376 Hz	-0.2980 ppm
50 °C	24 VDC	126.12985 kHz	-0.06995 Hz	-0.5546 ppm

Table 17

2.3.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Climatic test chamber	ESPEC	PL-4J	38958	12	2026-09-06
Signal and spectrum analyser	Rohde & Schwarz	FSV40	20219	24	2026-03-31

Table 18

2.4 Conducted Emissions on Mains Terminals

2.4.1 Specification Reference

FCC 47 CFR Part 15 C, Clause 15.207
ISED RSS-Gen, Clause 8.8

2.4.2 Equipment under Test and Modification State

SLO-5, S/N: 6018300036 / SLO-5/M1/31-L-F0,22 - Modification State 0

2.4.3 Date of Test

2026-02-26

2.4.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	38 %

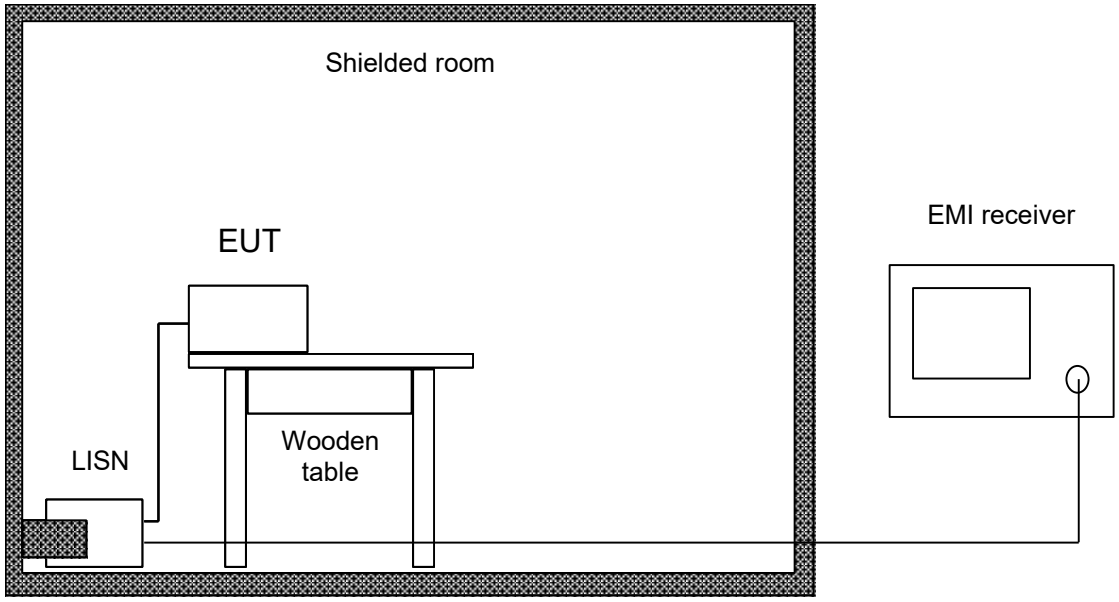
2.4.5 Specification Limits

Required Specification Limits			
Line Under Test	*Frequency Range (MHz)*	*Quasi-peak (dBµV)*	*Average (dBµV)*
AC Power Port	0.15 to 0.5	66 to 56*	56 to 46*
	0.5 to 5	56	46
	5 to 30	60	50
Supplementary information: *Decreases with the logarithm of the frequency.			

Table 19 Emission limits

2.4.6 Test Method

The test was performed according to ANSI C63.10, section 6.2.



The EUT was placed on a non-conductive table 0.8 m above a reference ground plane and 0.4 m away from a vertical coupling plane
All power was connected to the EUT through an Line Impedance Stabilization Network (LISN). Conducted disturbance voltage measurements on mains lines were made at the output of the LISN. The LISN was placed 0.8 m from the boundary of the EUT and bounded to the reference ground plane. To simplify testing with quasi-peak and linear average (cispr-average) detector the following procedure is used:
First the whole spectrum of emission caused by the equipment under test (EUT) is recorded with the detectors set to peak and average using CISPR bandwidth of 10 kHz. After that all emission levels having less margin than 10 dB to or exceeding the average limit are retested with the detectors set to quasi-peak and average. If the average limit is kept with quasi-peak levels measurement with average detector is optional. In cases of emission levels between quasi-peak and average limit an additional measurement with average detector has to be performed.

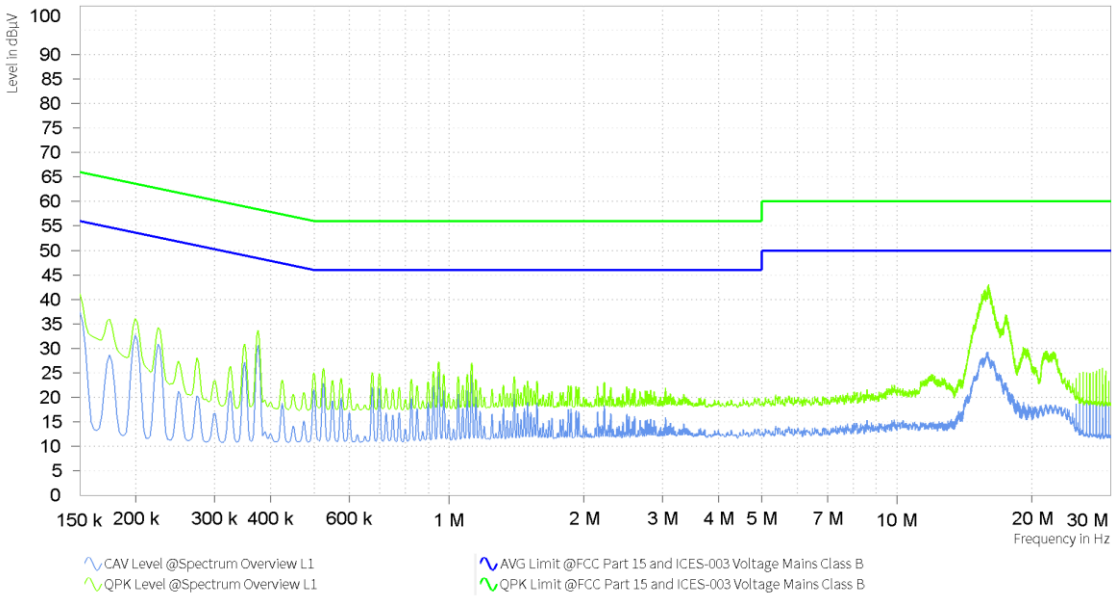
2.4.7 Test Results

Sample calculation:

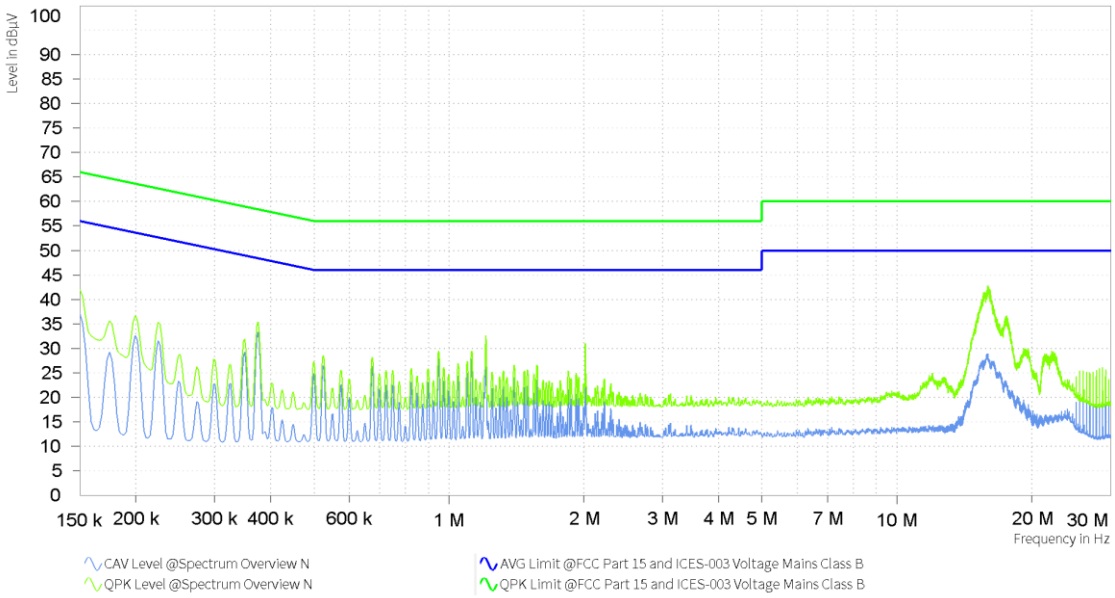
Final Value (dBµV) = Reading Value (dBµV) + (Cable attenuation (dB) + LISN Transducer (dB))

Test was performed on AC Mains of a representative power supply.

AC Mains – L1:



AC Mains – N:


Level in dBµV
100
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
150 k
200 k
300 k
400 k
600 k
1 M
2 M
3 M
4 M
5 M
7 M
10 M
20 M
30 M
Frequency in Hz
CAV Level @Spectrum Overview N
QPK Level @Spectrum Overview N
AVG Limit @FCC Part 15 and ICES-003 Voltage Mains Class B
QPK Limit @FCC Part 15 and ICES-003 Voltage Mains Class B

2.4.8 Test Location and Test Equipment

The test was carried out in shielded room, cabin No. 9

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
EMI test receiver	Rohde & Schwarz	EPL1000	67137	12	2026-07-31
Shielded room	Albatross Projects	Cabin No. 9	21083	--	--
ELEKTRA measurement software	Rohde & Schwarz	ELEKTRA K9 Emission – V5.11.1	68260	--	--
V-Network	Rohde & Schwarz	ENV216	39910	12	2026-10-31

Table 20

2.5 Antenna requirement

2.5.1 Specification Reference

FCC 47 CFR Part 15 C, Clauses 15.203

2.5.2 Equipment under Test and Modification State

SLO-5, S/N: 6018300036 / SLO-5/M1/31-L-F0,22 - Modification State 0

2.5.3 Date of Test

2026-02-25

2.5.4 Specification Limits

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some fields disturbance sensors, or to other intentional radiators which must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits are not exceeded.

2.5.5 Test Results

All antennas are integrated.

3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Radio Interference Emission Testing		
Test Name	*kp*	*Expanded Uncertainty*
Conducted Voltage Emission		
9 kHz to 150 kHz (50Ω/50µH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50µH AMN)	2	± 3.4 dB
100 kHz to 200 MHz (50Ω/5µH AMN)	2	± 3.6 dB
Discontinuous Conducted Emission		
9 kHz to 150 kHz (50Ω/50µH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50µH AMN)	2	± 3.4 dB
Conducted Current Emission		
9 kHz to 200 MHz	2	± 3.5 dB
Magnetic Fieldstrength		
9 kHz to 30 MHz (with loop antenna)	2	± 3.9 dB
9 kHz to 30 MHz (large-loop antenna 2 m)	2	± 3.5 dB
Radiated Emission		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 5.0 dB
1 GHz to 6 GHz	2	± 4.6 dB
Test distance 10 m		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 4.9 dB
The expanded uncertainty reported according to to CISPR16-4-2: 2011 + A1 + A2 + Cor1 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%		

Table 21 Measurement uncertainty based on CISPR 16-4-2

Radio Interference Emission Testing		
Test Name	*kp*	*Expanded Uncertainty*
Occupied Bandwdith	2	± 5 %
Conducted Power		
9 kHz ≤ f < 30 MHz	2	± 1.0 dB
30 MHz ≤ f < 1 GHz	2	± 1.5 dB
1 GHz ≤ f ≤ 40 GHz	2	± 2.5 dB
1 MS/s power sensor (TS8997)	2	± 1.5 dB
Occupied Bandwidth	2	± 5 %
Power Spectral Density	2	± 3.0 dB
Radiated Power		
25 MHz – 6 GHz	1.96	±4.4 dB
1 GHz – 18 GHz	1.96	±4.7 dB
18 GHz – 40 GHz	1.96	±4.9 dB
40 GHz – 325 GHz	1.96	±6.1 dB
Conducted Spurious Emissions	2	± 3.0 dB
Radiated Spurious Emissions	2	± 6.0 dB
Voltage		
DC	2	± 1.0 %
AC	2	± 2.0 %
Time (automatic)	2	± 5 %
Frequency	2	± 10^{-7}
The expanded uncertainty reported according to to ETSI TR 100 028:2001 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%		

Table 22 Measurement uncertainty based on ETSI TR 100 028

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 (U_{CISPR}) and as specified in the test report below. This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.

Test Name	*Expanded Uncertainty*
Occupied Bandwidth	±5 %
Conducted Power	
9 kHz ≤ f < 30 MHz	±1.0 dB
30 MHz ≤ f < 1 GHz	±1.5 dB
1 GHz ≤ f ≤ 40 GHz	±2.5 dB
1 MS/s power sensor (2.4 / 5 GHz band)	±1.5 dB
Power Spectral Density	±3.0 dB
Radiated Power	
25 MHz – 26.5 GHz	±6.0 dB
26.5 GHz – 66 GHz	±8.0 dB
40 GHz – 325 GHz	±10.0 dB
Conducted Spurious Emissions	±3.0 dB
Radiated Field Strength 9 kHz – 40 GHz	±6.0 dB
Voltage	
DC	± 1.0 %
AC	± 2.0 %
Time (automatic)	± 5 %
Frequency	± 10^{-7}

Table 23 Decision Rule: Maximum allowed measurement uncertainty

End of Test Report