

Prüfbericht-Nr.: Test report no.:	CN250THI 001	Auftrags-Nr.: Order no.:	326118634	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	1288983	Auftragsdatum: Order date:	2025-07-07	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	Cabinet Lamp			
Bezeichnung / Typ-Nr.: Identification / Type no.:	L2304-1 KÖLVATTEN			
Auftrags-Inhalt: Order content:	TÜV Rheinland EMC service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15, Subpart B:2023 Class B ICES-005:2018			
Wareneingangsdatum: Date of sample receipt:	2025-07-14	Refer to the EUT photos file		
Prüfmuster-Nr.: Test sample no.:	A004042753-001			
Prüfzeitraum: Testing period:	2025-07-23~2025-08-14			
Ort der Prüfung: Place of testing:	Refer to clause 1.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by: Jessie Xu	genehmigt von: authorized by: Jiayi Zhou			
Datum: Date: 2025-08-20	<i>Jessie Xu</i>		Ausstellungsdatum: Issue date: 2025-08-20	
Stellung / Position: Project engineer			Stellung / Position: Authorizer	
Sonstiges / Other:	FCC ID: FHO-L2304-1 Test Firm Name: TÜV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen
Remarks

- | | |
|---|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN250THI 001	2025-08-20	Initial release.

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1 Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland (Shanghai) Co., Ltd.

Address: Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang) Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu, China

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

Refer to Clause 7 for test and measurement instruments.

2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is an ordinary cabinet lamp. For further information, refer to the user's manual.

2.2 Ratings and System Details

USB rated input	: 5 V DC, 2.5 W
Battery input	: 4.8 V DC 1.5 W 4×AA HR6 1.2 V
Rated power	: 2.5 W

2.3 Independent Operation Modes

The basic operation modes are: "ON", "AUTO" and "Off".

The test modes are as follows:

- 1: charging mode by USB port.
- 2: lighting on powered internal battery.

2.4 Description of interconnecting cables

None.

2.5 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

2.6 Highest frequency generated or used in the device or on which the device operates or tunes

The highest frequency used in the EUT is 16 MHz.

2.7 Submitted Documents

Circuit diagram, user's manual and rating label.

3 Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible emission level. The test conditions were adapted accordingly in reference to the instructions for use.

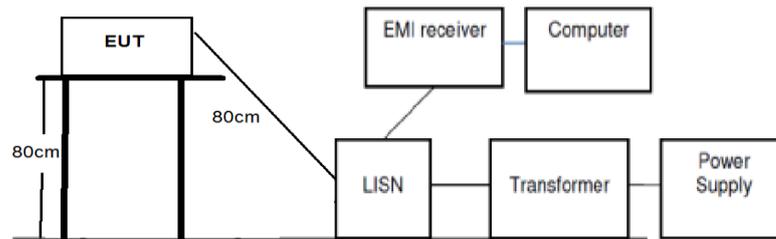
Refer to the related paragraph of this report.

The sequence of testing:

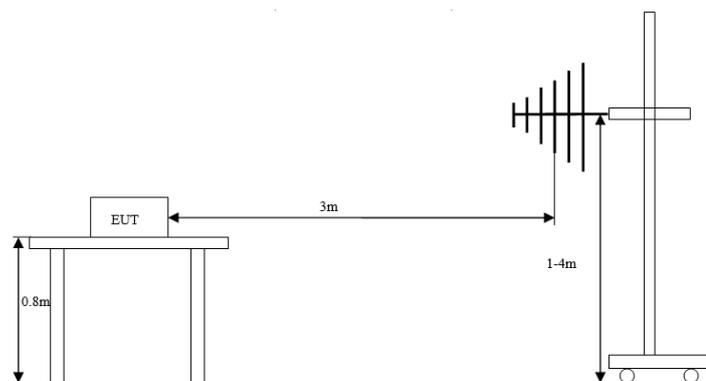
1. Conducted emission tests were performed on 2025-07-23~2025-08-05.
2. Radiated emission tests were performed on 2025-08-14.

3.2 Equipment and cable arrangement

Block diagram for both conducted emission and radiated emission tests is as follows:



(Conducted emission)



(Radiated emission 30-1000 MHz)

Also refer to photographs on clause 6 for test setups for both conducted emission test and radiated emission tests.

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3.3 Test Software

Refer to the related paragraph of this report. No software was used.

3.4 Special Accessories and Auxiliary Equipment

During the test, the LED power supply (model: ICPSW5-5EU-1, brand: IKEA) and laptop (model: T45, brand: ThinkPad) were used for charging mode.

3.5 Countermeasures to achieve EMC Compliance

No other special measure is employed to achieve the requirement.

4 Conformity Decision Rule

For all EMI tests included in this report, as measurement uncertainties are less than the values U_{CISPR} given in CISPR 16-4-2, compliance with the limits is determined by comparing measurement results directly with corresponding limits without taking into consideration of measurement uncertainties.

5 Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted emission

Result:	Passed
Date of testing	: 2025-07-23~2025-08-05
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ANSI C63.4-2014 and CISPR 16-2-1
Frequency range	: 0.15 – 30 MHz
Limits	: Quasi-peak limit: 0.15 – 0.5 MHz, 66 to 56 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 56 dB μ V; 5 – 30 MHz, 60 dB μ V Average limit: 0.15 – 0.5 MHz, 56 to 46 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dB μ V; 5 – 30 MHz, 50 dB μ V
Bandwidth of EMI receiver for final measurement	: 9 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Shielded room
Input voltage	: AC 120 V, 60 Hz for LED power supply and adaptor of laptop
Operational mode	: Mode 1: charging by LED power supply. Mode 2: charging by adaptor of laptop.
Ambient condition	: Temperature: 19.3 °C; Relative humidity: 54.1 %
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 8.15 dB at 0.172500 MHz. The margin is higher than expanded measurement uncertainty.

The measurement setup was made according to ANSI C63.4-2014 in a shielded room.

The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with CISPR 16-1 series standards.

The tested object was set-up on a wooden support. The EUT was set 0.8 m away from the AMN. The cord longer than necessary to be connected to the AMN was folded forth and back parallel so as to form a bundle with a length between 0.3 m and 0.4 m.

The disturbance voltage test was performed on the neutral line and phase line of the power supply of the EUT respectively.

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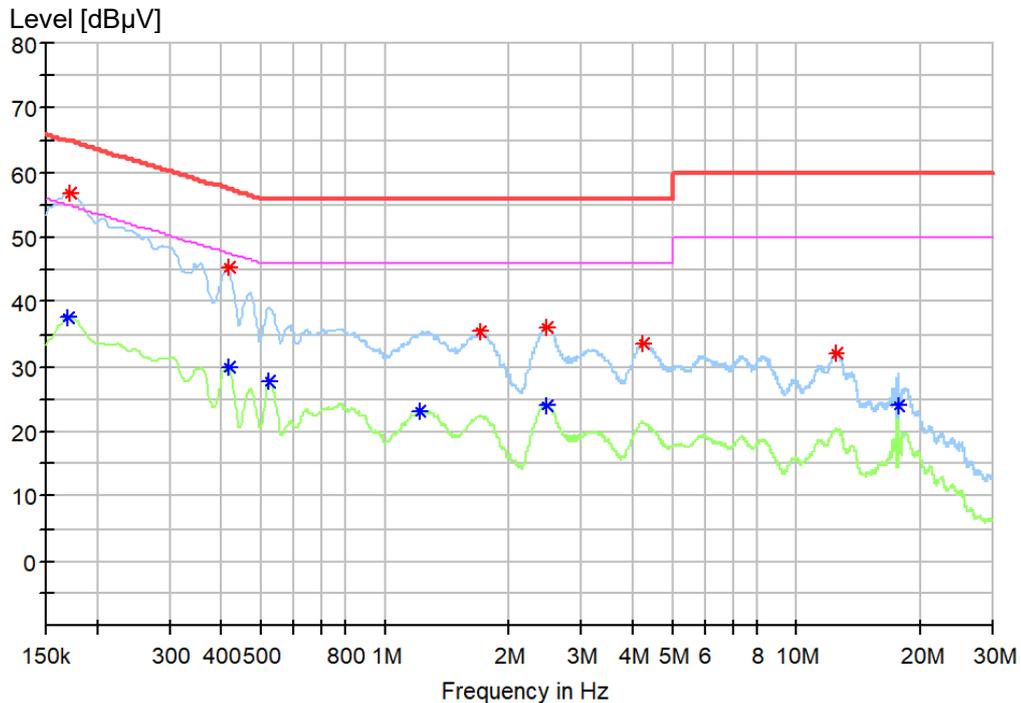
The following figures and tables were those measured by an automatic measuring system. Both quasi-peak and average measurements were performed. In the following spectral diagram, “*” means Quasi-Peak Value and “*” means Average Value results.

Notes on following tables of conducted emission results and conversions:

Level (dB μ V): final measurement results by using quasi-peak detector and average detector

Transd (dB): transducer factor including cable loss, insertion loss of artificial mains network and gain of pre-amplifier (if used)

Margin: Limit (dB μ V) - Level (dB μ V)

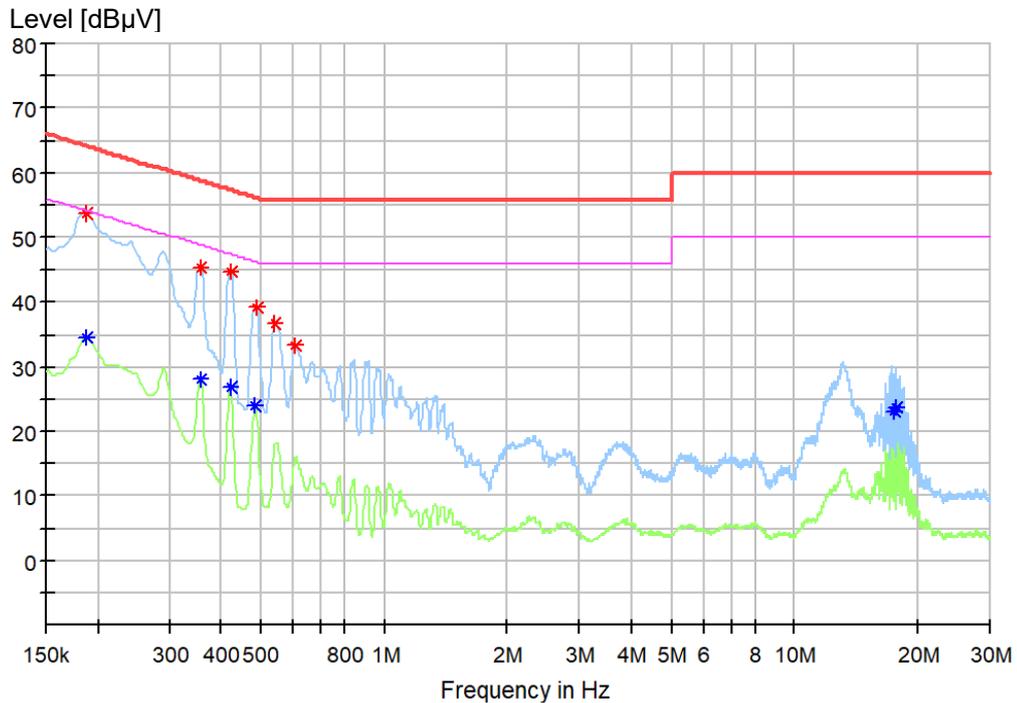
Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L, mode 1


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.172500	56.68	64.84	8.15	L1
0.415500	45.21	57.54	12.33	L1
1.700250	35.49	56.00	20.51	L1
2.476500	36.04	56.00	19.96	L1
4.236000	33.75	56.00	22.25	L1
12.495750	32.20	60.00	27.80	L1

Final average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.170250	37.75	54.95	17.20	L1
0.415500	29.96	47.54	17.57	L1
0.525750	27.60	46.00	18.40	L1
1.221000	23.25	46.00	22.75	L1
2.474250	24.12	46.00	21.88	L1
17.603250	23.88	50.00	26.12	L1

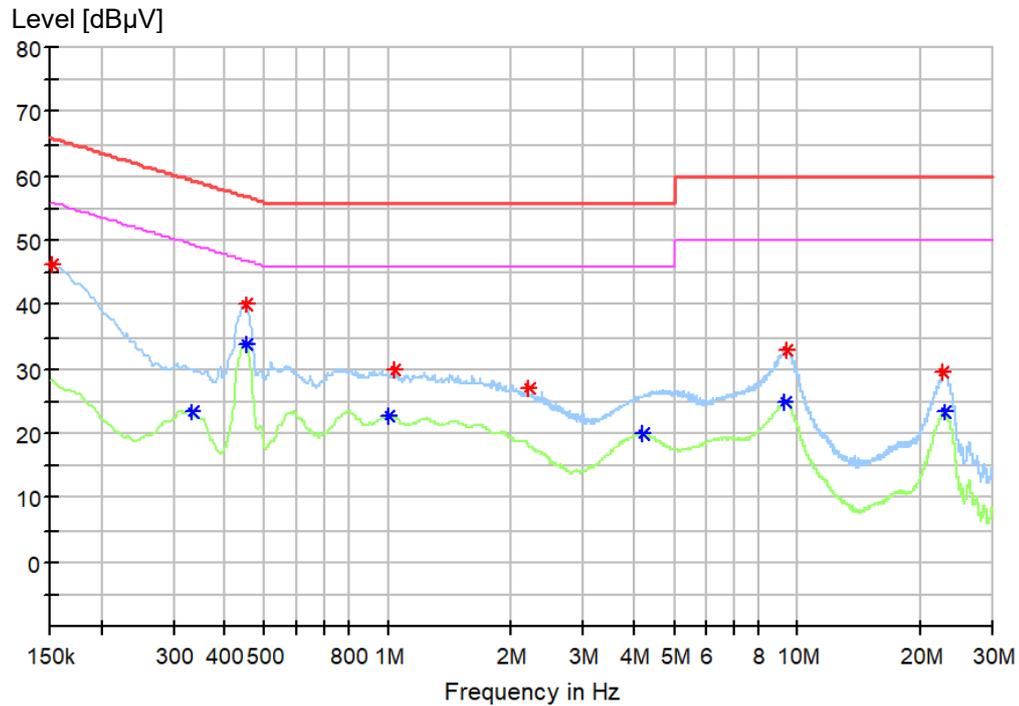
Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, mode 1


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.188250	53.60	64.11	10.52	N
0.357000	45.34	58.80	13.46	N
0.424500	44.85	57.36	12.51	N
0.487500	39.28	56.21	16.93	N
0.543750	36.75	56.00	19.25	N
0.606750	33.32	56.00	22.68	N

Final average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.188250	34.56	54.11	19.55	N
0.354750	27.89	48.85	20.96	N
0.420000	26.95	47.45	20.50	N
0.485250	23.90	46.25	22.35	N
17.551500	23.18	50.00	26.82	N
17.616750	23.85	50.00	26.15	N

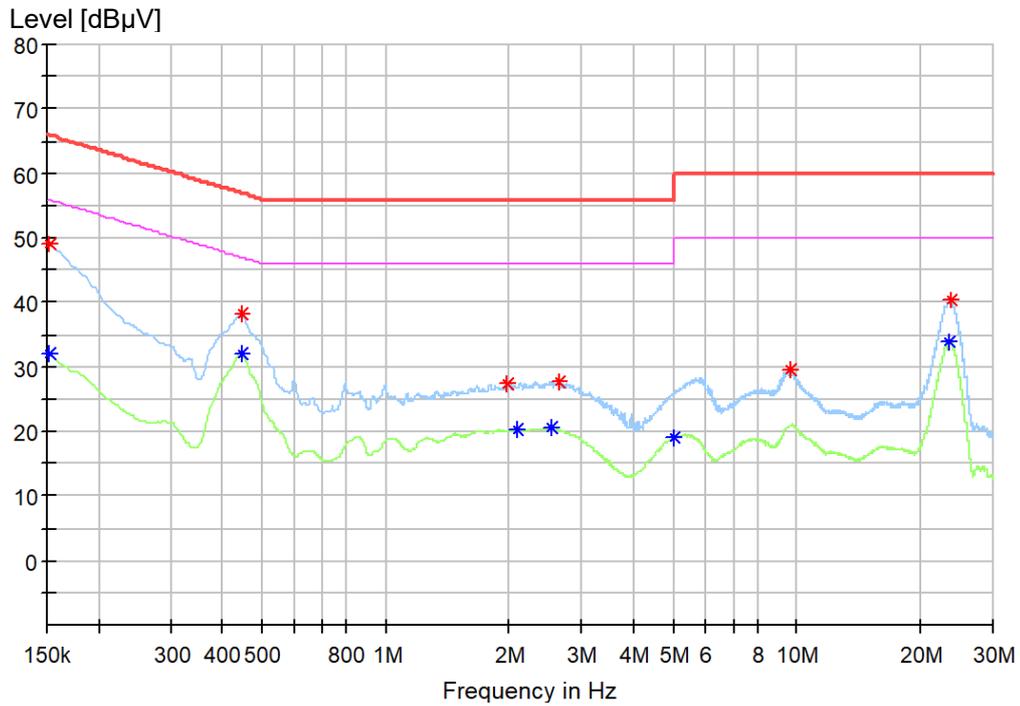
Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L, mode 2


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.152250	46.40	65.88	19.47	L1
0.449250	40.07	56.89	16.82	L1
1.034250	29.84	56.00	26.16	L1
2.199750	27.01	56.00	28.99	L1
9.372750	33.11	60.00	26.89	L1
22.706250	29.57	60.00	30.43	L1

Final average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.332250	23.51	49.40	25.88	L1
0.449250	33.81	46.89	13.08	L1
1.002750	22.78	46.00	23.22	L1
4.186500	19.89	46.00	26.11	L1
9.323250	24.94	50.00	25.06	L1
22.967250	23.41	50.00	26.59	L1

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, mode 2


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.152250	49.23	65.88	16.65	N
0.444750	38.30	56.97	18.67	N
1.972500	27.53	56.00	28.47	N
2.629500	27.82	56.00	28.18	N
9.604500	29.66	60.00	30.34	N
23.667000	40.35	60.00	19.65	N

Final average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.152250	32.09	55.88	23.78	N
0.447000	32.20	46.93	14.73	N
2.091750	20.28	46.00	25.72	N
2.512500	20.49	46.00	25.51	N
4.989750	19.04	46.00	26.96	N
23.532000	33.91	50.00	16.09	N

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emission (30-1000 MHz)

Result:	Passed
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Date of testing	: 2025-08-14
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Frequency range	: 30 – 1000 MHz (see Note 1)
Limits	: Quasi-peak limits (3 m distance): 30 – 88 MHz, 40 dB μ V/m; 88 – 216 MHz, 43.5 dB μ V/m; 216 – 1000 MHz, 46 dB μ V/m (see Note 2)
Bandwidth of EMI receiver for final measurement	: 120 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Semi-anechoic chamber
Input voltage	: AC 120 V, 60 Hz for LED power supply
Operational mode	: Mode 1: charging by LED power supply Mode 2: lighting on powered internal battery.
Ambient condition	: Temperature: 22.1 °C; Relative humidity: 57.3 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 4.2 dB at 215.027500 MHz. The margin is higher than expanded measurement uncertainty.

The radiated disturbance test was carried out in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. The normalized site attenuation of the semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the EUT was placed on an 80 cm wooden support above the reference ground plane. The wooden support was rotated 360° around and the height of the antenna was varied from 1 m to 4 m to find the maximum disturbance. The test was performed with the antenna both in its horizontal and vertical polarizations.

The following figures and tables were those measured by an automatic measurement system. A preview test was firstly performed with peak detector. The final test was performed with quasi-peak at those critical frequencies during the preview test. In the following spectral diagram, “×” means quasi-peak test results.

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Notes on following tables of radiated emission results and conversions:

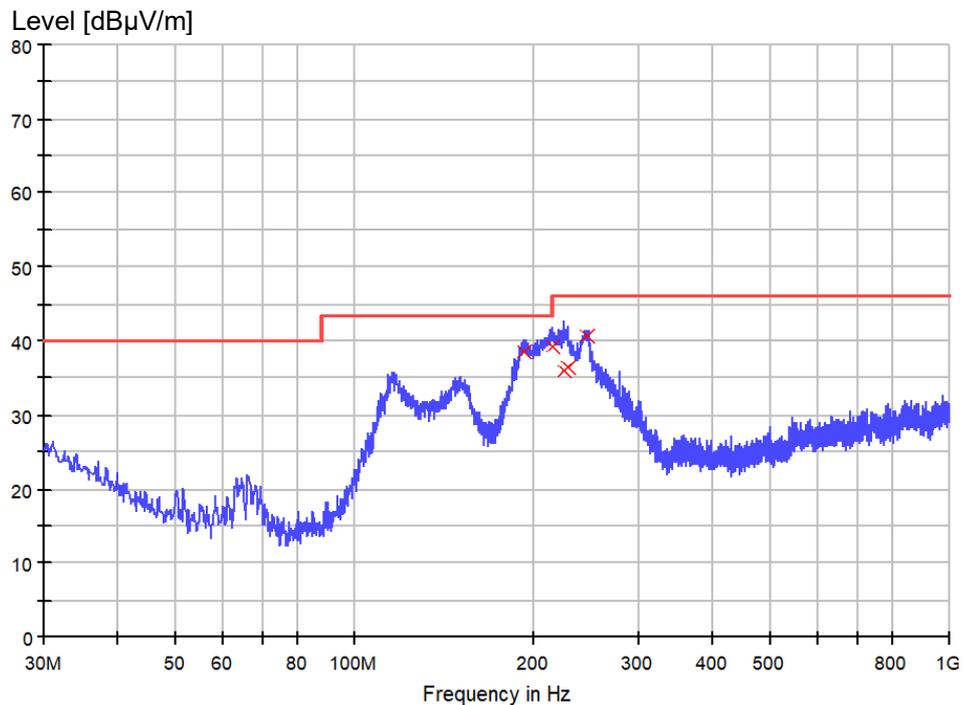
QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector

Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)

Margin: Limit (dB μ V/m) - QuasiPeak (dB μ V/m)

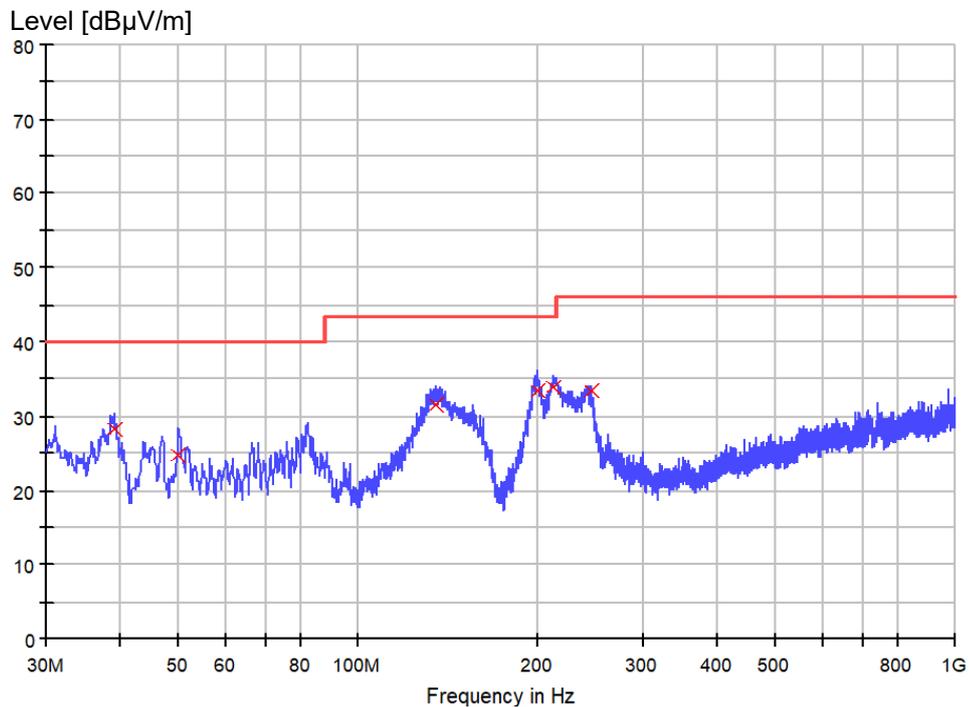
Note 1: The highest frequency in the EUT is less than 108 MHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 1000 MHz.

Note 2: The class B limits of ICES-005:2018 is stricter than those FCC 47 CFR Part 15, Subpart B:2023 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

Figure 5: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, mode 1


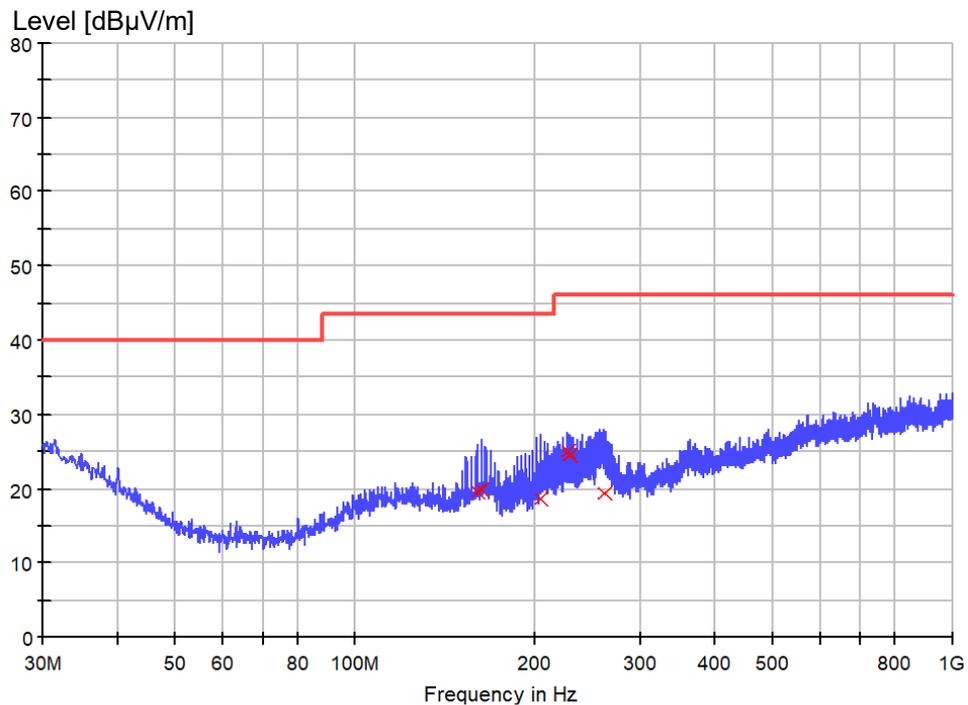
Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
192.232500	38.7	1000.0	120.000	100.0	H	-180.0	15.8	4.8	43.5
215.027500	39.3	1000.0	120.000	100.0	H	-180.0	16.0	4.2	43.5
225.576250	36.1	1000.0	120.000	100.0	H	180.0	16.7	9.9	46.0
227.758750	36.5	1000.0	120.000	100.0	H	-180.0	17.0	9.5	46.0
246.310000	40.6	1000.0	120.000	100.0	H	76.0	19.2	5.4	46.0

Figure 6: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, mode 1


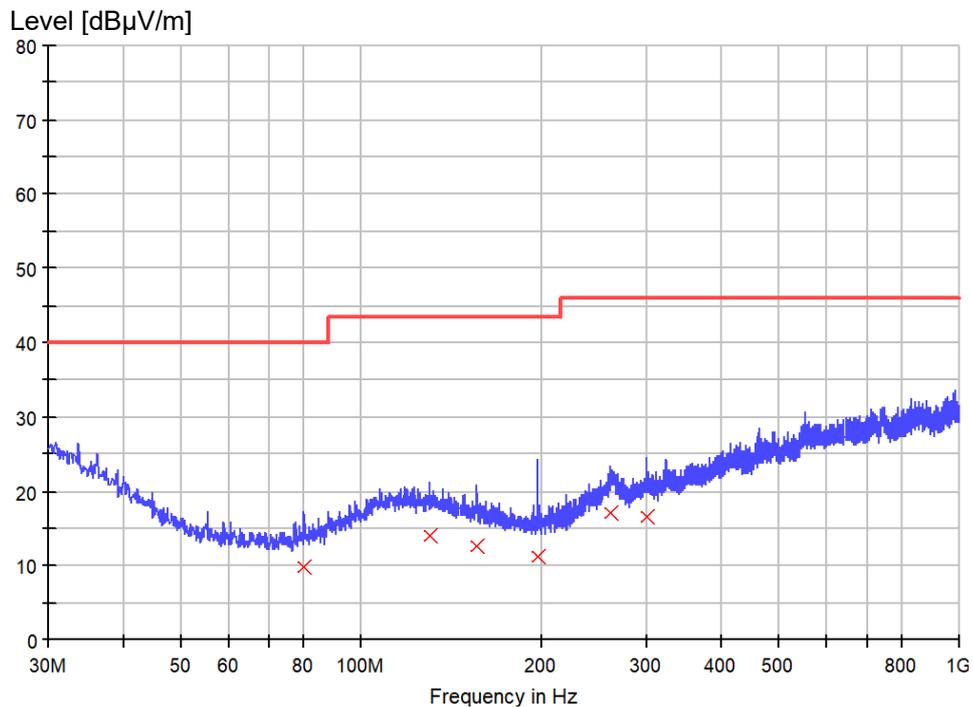
Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
39.093750	28.2	1000.0	120.000	100.0	V	84.0	20.3	11.8	40.0
50.006250	24.9	1000.0	120.000	100.0	V	177.0	14.8	15.2	40.0
135.487500	31.6	1000.0	120.000	100.0	V	-48.0	18.3	11.9	43.5
200.113750	33.4	1000.0	120.000	100.0	V	-180.0	16.1	10.1	43.5
212.723750	34.0	1000.0	120.000	100.0	V	173.0	16.0	9.5	43.5
245.703750	33.4	1000.0	120.000	100.0	V	-101.0	19.2	12.6	46.0

Figure 7: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, mode 2


Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
159.737500	19.6	1000.0	120.000	100.0	H	0.0	17.0	23.9	43.5
162.647500	19.9	1000.0	120.000	100.0	H	0.0	16.8	23.6	43.5
204.721250	18.7	1000.0	120.000	100.0	H	0.0	16.2	24.8	43.5
226.303750	25.0	1000.0	120.000	100.0	H	0.0	16.8	21.0	46.0
229.213750	24.5	1000.0	120.000	100.0	H	0.0	17.1	21.5	46.0
260.132500	19.4	1000.0	120.000	100.0	H	0.0	21.5	26.6	46.0

Figure 8: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, mode 2


Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
80.076250	9.9	1000.0	120.000	100.0	V	0.0	13.8	30.1	40.0
130.516250	14.0	1000.0	120.000	100.0	V	0.0	18.5	29.5	43.5
155.857500	12.6	1000.0	120.000	100.0	V	0.0	16.9	30.9	43.5
196.961250	11.1	1000.0	120.000	100.0	V	0.0	15.9	32.4	43.5
261.345000	17.0	1000.0	120.000	100.0	V	0.0	21.7	29.0	46.0
300.145000	16.5	1000.0	120.000	100.0	V	0.0	20.8	29.5	46.0

6 Photographs of the Test Set-Up

Refer to the test setup file.

7 List of Test and Measurement Instruments

Equip. no.	Equipment name	Model	Serial no.	Manufacturer	Cal. date	Due date
EMC-S-028	EMI measurement software	EMC32-E+ (10.60.20)	100150	Rohde & Schwarz	N/A	N/A
EMC-C-366	Thermohygrometer	608-H1	2485149174	testo	2024-07-26	2025-07-26
EMC-C-195	EMI test receiver	ESR3	102794	Rohde & Schwarz	2025-08-02	2026-08-02
EMC-C-190	Artificial mains network	ENV432	101514	Rohde & Schwarz	2024-10-11	2025-10-11
EMC-S-032	EMI measurement software	EMC32-MEB (10.60.20)	100697	Rohde & Schwarz	N/A	N/A
EMC-C-155	BiLog antenna	CBL 6112D	40530	Teseq	2025-03-24	2026-09-24
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2025-06-05	2026-06-05
EMC-C-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2024-10-17	2025-10-17
EMC-C-001	3 m semi-anechoic chamber	SAC3	FJ129002	Frankonia	2023-12-03	2026-12-03

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End of test report