Prüfbericht-Nr.: *Test report no.:*	**CN23N7Y0 001**	**Auftrags-Nr.:** *Order no.:*	**244555523**	**Seite 1 von 28** *Page 1 of 28*
Kunden-Referenz-Nr.: *Client reference no.:*	**1288983**	**Auftragsdatum:** *Order date:*	**2023-11-01**	
Auftraggeber: *Client:*	**IKEA of Sweden AB** Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: *Test item:*	**Light Chain**			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	**J2326**			
Auftrags-Inhalt: *Order content:*	**TÜV Rheinland EMC service**			
Prüfgrundlage: *Test specification:*	**FCC 47 CFR Part 15, Subpart B:2021 Class B** **ICES-005:2018**			
Wareneingangsdatum: *Date of sample receipt:*	**2023-12-06**	Refer to the EUT photos file		
Prüfmuster-Nr.: *Test sample no:*	**A003617855-001**			
Prüfzeitraum: *Testing period:*	**Refer to test report**			
Ort der Prüfung: *Place of testing:*	**Refer to clause 1.1**			
Prüflaboratorium: *Testing laboratory:*	**TÜV Rheinland (Suzhou) Co., Ltd.**			
Prüfergebnis*: *Test result*:*	**Pass**			

geprüft von:
tested by: Jessie Xu

Datum:
Date: 2024-02-06

Stellung / Position: Project engineer

genehmigt von:
authorized by: Jiaqi Zhou

Ausstellungsdatum:
Issue date: 2024-02-06

Stellung / Position: Reviewer

Sonstiges / *Other:*
FCC ID: FHO-J2326
Test Firm Name: TÜV Rheinland (Suzhou) Co., Ltd.
Test Firm Registration Number: 251781
Designation Number: CN1370

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *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*

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 above mentioned 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.

V05

Anmerkungen
Remarks

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3	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. *Test clauses with remark of * are subcontracted to qualified subcontractors and descripted 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.*
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TEST SUMMARY

5.1.1 CONDUCTED EMISSION
Result:
Passed
5.2.1 RADIATED EMISSION (30-1000 MHz)
Result:
Passed

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1 Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland (Suzhou) Co., Ltd.
Address: No.14 building and north half of No.10 workshop building, No.525, Yuewang Lingang South Road, Pingqian (Taicang) Modern Industrial Park, Shaxi Town, Taicang City, Jiangsu Province, 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 light chain for lighting and similar use. For the further information, refer to the user's manual.

2.2 Ratings and System Details

System input : AC 120 V, 60 Hz
Rated power : 4 W
LED driver information: ICPSW-24-3.6-IL-1, Input: AC 100-240 V, 50/60 Hz, Max. 0,05 A; Output: DC 24.0 V, Max.0.15 mA, 3.6W.

2.3 Independent Operation Modes

The basic operation modes are: "ON" and "OFF".

2.4 Description of interconnecting cables

No.	Interface and name	Shielded or not	Specified length (mm)
1	AC power line	Unshielded	950
2	DC Power supply line	Unshielded	4800

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 24 MHz.

2.7 Submitted Documents

Circuit diagram, user's manual and rating label.

3 Test Set-up and Operation Modes

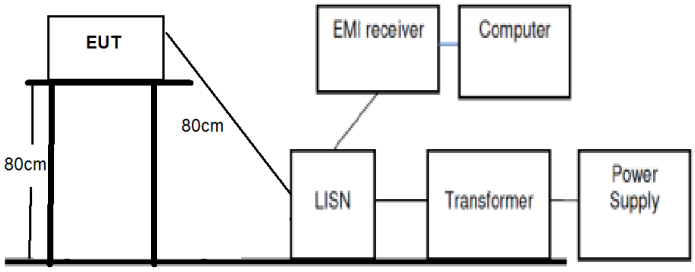
3.1 Principle of Configuration Selection

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.

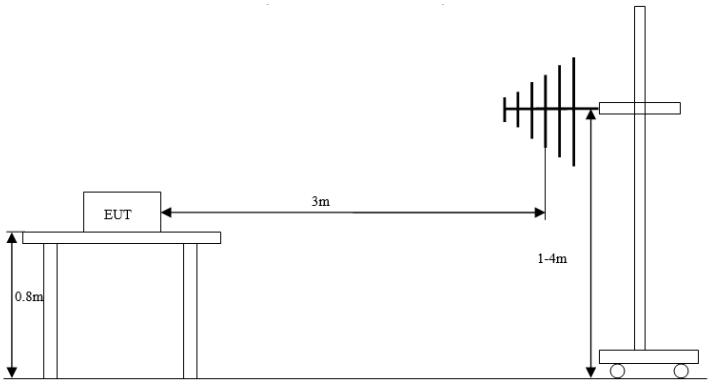
Refer to the related paragraph of this report.
The sequence of testing:
1. Radiated emission tests were performed on 2023-12-20.
2. Conducted emission tests were performed on 2023-12-06.

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 test.

3.3 Test Software

No special test software was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

None.

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 E M I S S I O N

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted emission

Result:	**Passed**

Date of testing	:	2023-12-06
Test procedure	:	FCC 47 CFR Part 15, Subpart B:2021, 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 dBµV (decrease with the logarithm of frequency); 0.5 – 5 MHz, 56 dBµV; 5 – 30 MHz, 60 dBµV Average limit: 0.15 – 0.5 MHz, 56 to 46 dBµV (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dBµV; 5 – 30 MHz, 50 dBµV
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 with LED driver
Operational mode	:	Mode 1: lighting on mode Mode 2: flashing mode Mode 3: sensor mode
Ambient condition	:	Temperature: 20.2 °C; Relative humidity: 45.1 %
Expanded measurement uncertainty (*k*=2)	:	2.33 dB The minimum margin to the limit is 6.5 dB at 0.150000 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.

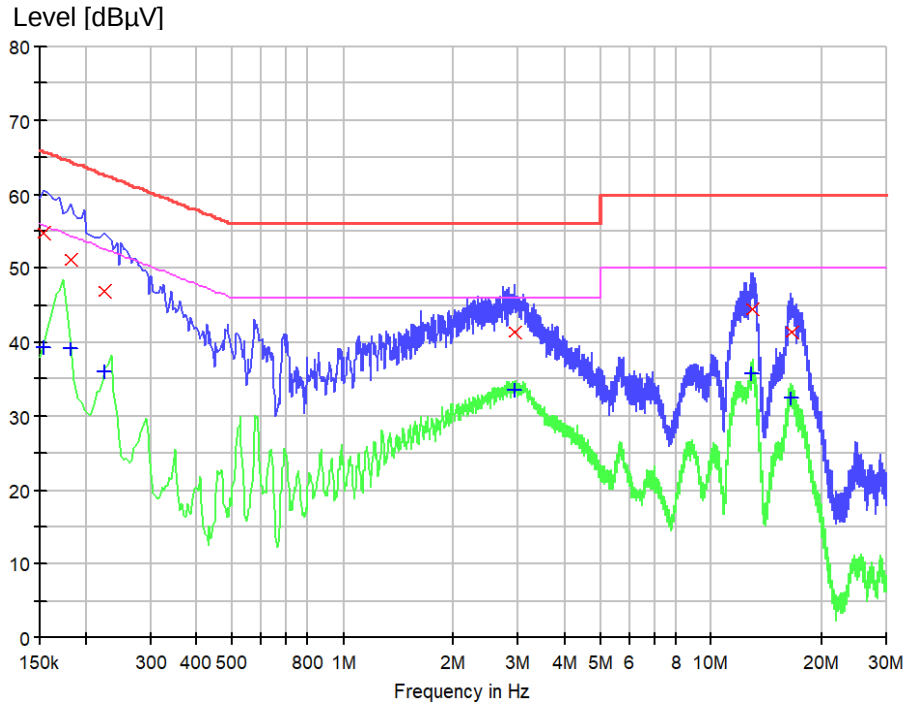
The following figures and tables were those measured by an automatic measuring system. Both quasi-peak and average measurements were performed. In the following spectral diagram, “×” means Quasi-Peak Value and “+” means Average Value results.

Notes on following tables of conducted emission results and conversions:

Level (dBµV): 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 (dBµV) - Level (dBµV)

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



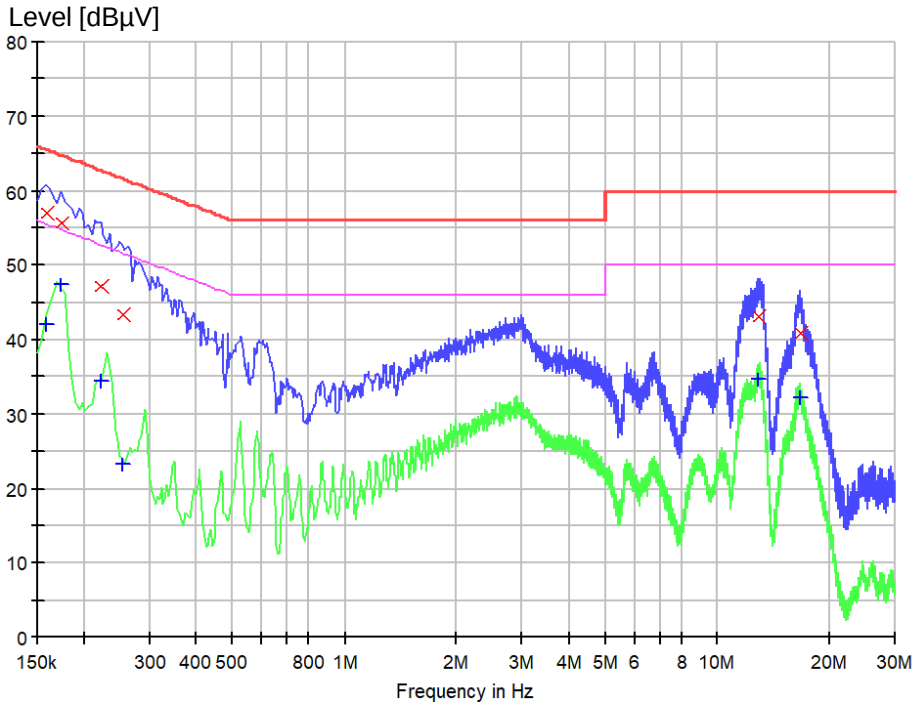
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)
0.154000	54.7	1000.0	9.000	L1	9.8	11.1	65.8
0.182000	51.1	1000.0	9.000	L1	9.8	13.3	64.4
0.226000	46.9	1000.0	9.000	L1	9.8	15.7	62.6
2.934000	41.3	1000.0	9.000	L1	9.9	14.7	56.0
12.966000	44.4	1000.0	9.000	L1	10.2	15.6	60.0
16.606000	41.3	1000.0	9.000	L1	10.3	18.7	60.0

Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.154000	39.4	1000.0	9.000	L1	9.8	16.4	55.8
0.182000	39.1	1000.0	9.000	L1	9.8	15.3	54.4
0.226000	36.0	1000.0	9.000	L1	9.8	16.6	52.6
2.934000	33.6	1000.0	9.000	L1	9.9	12.4	46.0
12.966000	35.8	1000.0	9.000	L1	10.2	14.2	50.0
16.606000	32.4	1000.0	9.000	L1	10.3	17.6	50.0

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



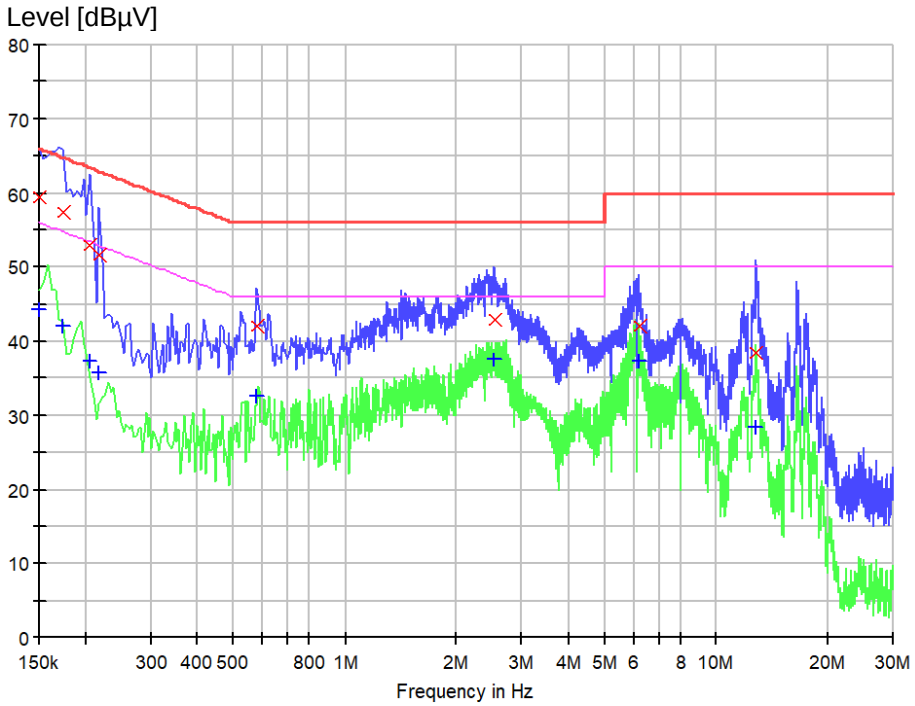
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)
0.158000	56.9	1000.0	9.000	N	9.8	8.7	65.6
0.174000	55.7	1000.0	9.000	N	9.8	9.0	64.8
0.222000	47.3	1000.0	9.000	N	9.8	15.5	62.7
0.254000	43.4	1000.0	9.000	N	9.8	18.2	61.6
12.954000	43.1	1000.0	9.000	N	10.2	16.9	60.0
16.702000	40.9	1000.0	9.000	N	10.3	19.1	60.0

Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.158000	42.0	1000.0	9.000	N	9.8	13.5	55.6
0.174000	47.4	1000.0	9.000	N	9.8	7.4	54.8
0.222000	34.5	1000.0	9.000	N	9.8	18.3	52.7
0.254000	23.4	1000.0	9.000	N	9.8	28.3	51.6
12.954000	34.7	1000.0	9.000	N	10.2	15.3	50.0
16.702000	32.1	1000.0	9.000	N	10.3	17.9	50.0

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



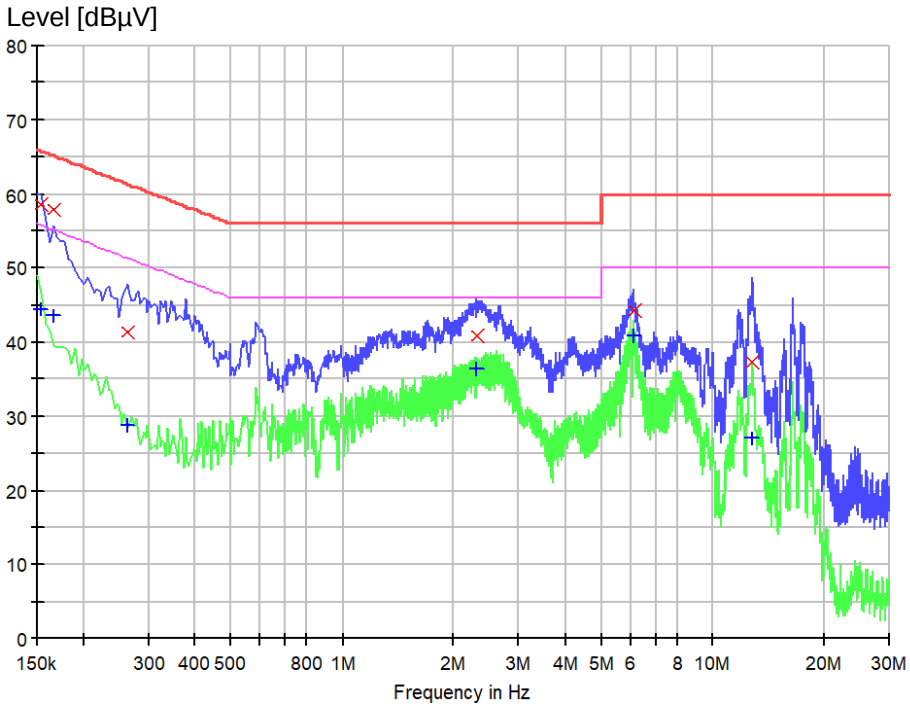
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)
0.150000	59.5	1000.0	9.000	L1	9.8	6.5	66.0
0.174000	57.4	1000.0	9.000	L1	9.8	7.4	64.8
0.206000	52.9	1000.0	9.000	L1	9.8	10.5	63.4
0.218000	51.5	1000.0	9.000	L1	9.8	11.4	62.9
0.578000	42.0	1000.0	9.000	L1	9.8	14.0	56.0
2.538000	43.0	1000.0	9.000	L1	9.9	13.0	56.0
6.190000	41.9	1000.0	9.000	L1	9.9	18.1	60.0
12.818000	38.5	1000.0	9.000	L1	10.2	21.5	60.0

Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.150000	44.4	1000.0	9.000	L1	9.8	11.7	56.0
0.174000	42.0	1000.0	9.000	L1	9.8	12.7	54.8
0.206000	37.3	1000.0	9.000	L1	9.8	16.1	53.4
0.218000	35.8	1000.0	9.000	L1	9.8	17.1	52.9
0.578000	32.5	1000.0	9.000	L1	9.8	13.5	46.0
2.538000	37.6	1000.0	9.000	L1	9.9	8.4	46.0
6.190000	37.4	1000.0	9.000	L1	9.9	12.6	50.0
12.818000	28.3	1000.0	9.000	L1	10.2	21.7	50.0

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



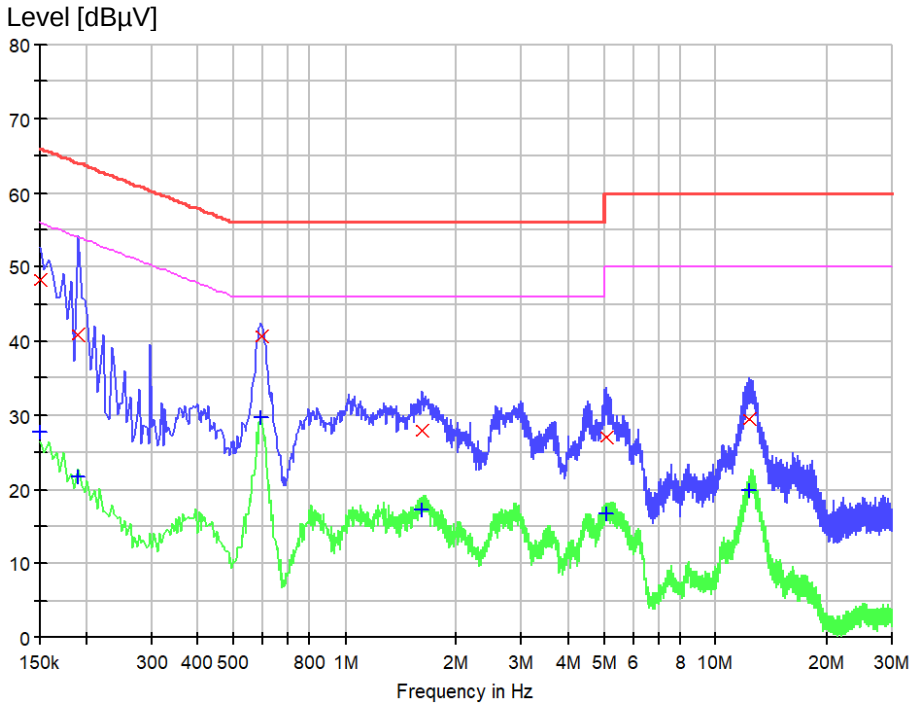
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)
0.154000	58.6	1000.0	9.000	N	9.8	7.2	65.8
0.166000	57.8	1000.0	9.000	N	9.8	7.3	65.2
0.262000	41.3	1000.0	9.000	N	9.8	20.1	61.4
2.306000	41.0	1000.0	9.000	N	9.9	15.0	56.0
6.114000	44.2	1000.0	9.000	N	9.9	15.8	60.0
12.758000	37.3	1000.0	9.000	N	10.2	22.7	60.0

Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.154000	44.4	1000.0	9.000	N	9.8	11.4	55.8
0.166000	43.6	1000.0	9.000	N	9.8	11.5	55.2
0.262000	28.7	1000.0	9.000	N	9.8	22.6	51.4
2.306000	36.4	1000.0	9.000	N	9.9	9.6	46.0
6.114000	41.0	1000.0	9.000	N	9.9	9.1	50.0
12.758000	27.0	1000.0	9.000	N	10.2	23.0	50.0

Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L on mode 3



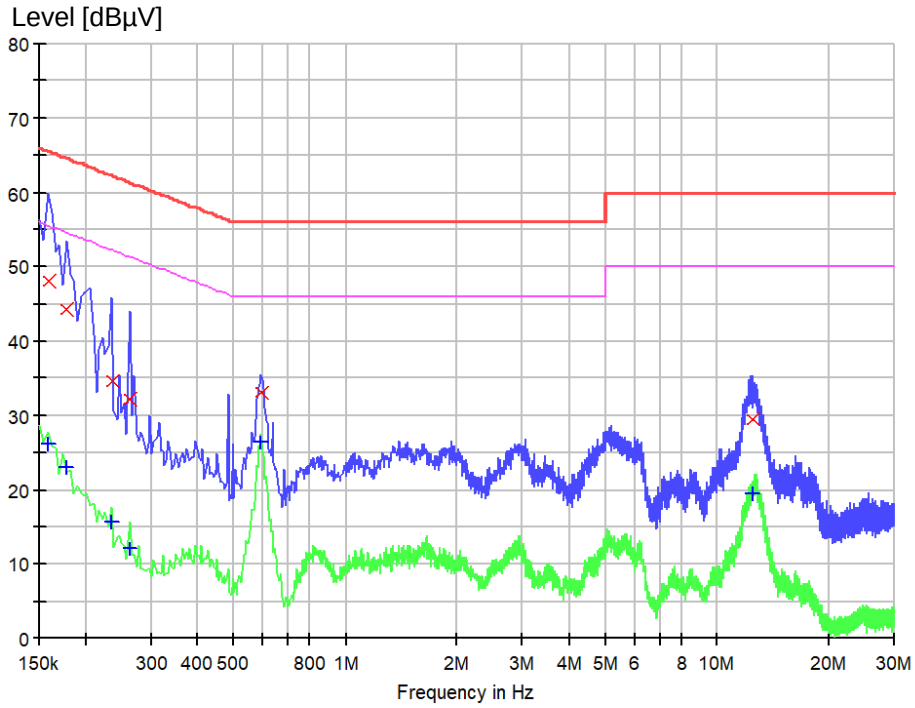
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)
0.150000	48.4	1000.0	9.000	L1	9.8	17.6	66.0
0.190000	40.8	1000.0	9.000	L1	9.8	23.2	64.0
0.594000	40.6	1000.0	9.000	L1	9.8	15.4	56.0
1.618000	28.0	1000.0	9.000	L1	9.9	28.0	56.0
5.090000	26.9	1000.0	9.000	L1	9.9	33.1	60.0
12.398000	29.4	1000.0	9.000	L1	10.2	30.6	60.0

Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.150000	27.7	1000.0	9.000	L1	9.8	28.3	56.0
0.190000	21.7	1000.0	9.000	L1	9.8	32.4	54.0
0.594000	29.7	1000.0	9.000	L1	9.8	16.3	46.0
1.618000	17.1	1000.0	9.000	L1	9.9	28.9	46.0
5.090000	16.9	1000.0	9.000	L1	9.9	33.2	50.0
12.398000	19.9	1000.0	9.000	L1	10.2	30.1	50.0

Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N on mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)
0.158000	48.0	1000.0	9.000	N	9.8	17.6	65.6
0.178000	44.3	1000.0	9.000	N	9.8	20.3	64.6
0.234000	34.7	1000.0	9.000	N	9.8	27.6	62.3
0.262000	32.3	1000.0	9.000	N	9.8	29.1	61.4
0.594000	33.2	1000.0	9.000	N	9.8	22.8	56.0
12.434000	29.4	1000.0	9.000	N	10.2	30.6	60.0

Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.158000	26.3	1000.0	9.000	N	9.8	29.3	55.6
0.178000	23.0	1000.0	9.000	N	9.8	31.6	54.6
0.234000	15.7	1000.0	9.000	N	9.8	36.7	52.3
0.262000	12.1	1000.0	9.000	N	9.8	39.2	51.4
0.594000	26.4	1000.0	9.000	N	9.8	19.6	46.0
12.434000	19.5	1000.0	9.000	N	10.2	30.5	50.0

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emission (30-1000 MHz)

Result:	**Passed**

Date of testing	:	2023-12-20
Test procedure	:	FCC 47 CFR Part 15, Subpart B:2021, 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 dBµV/m; 88 – 216 MHz, 43.5 dBµV/m; 216 – 1000 MHz, 46 dBµV/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 with LED driver
Operational mode	:	Mode 1: lighting on mode Mode 2: flashing mode Mode 3: sensor mode
Ambient condition	:	Temperature: 20.1 °C; Relative humidity: 47.2 %
Expanded measurement uncertainty (*k*=2)	:	5.49 dB
		The minimum margin to the limit is 6.9 dB at 37.980000 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.

Notes on following tables of radiated emission results and conversions:

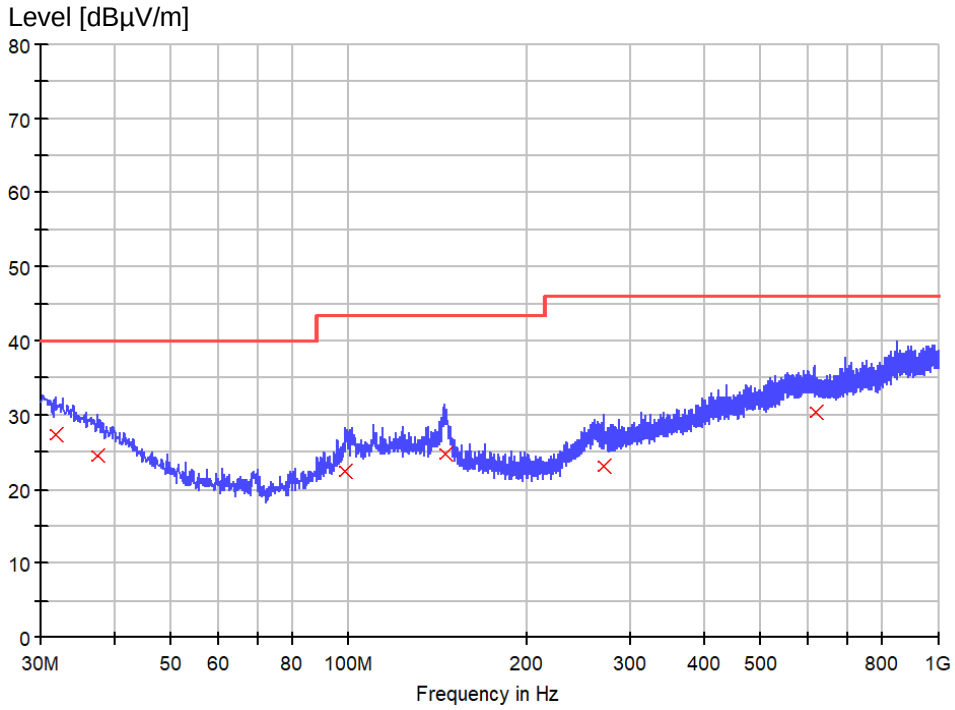
QuasiPeak (dBµV/m): final measurement results by using quasi-peak detector
Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)

Margin: Limit (dBµV/m) - QuasiPeak (dBµV/m)

Note 1: The highest frequency in the EUT is 24 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:2021 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

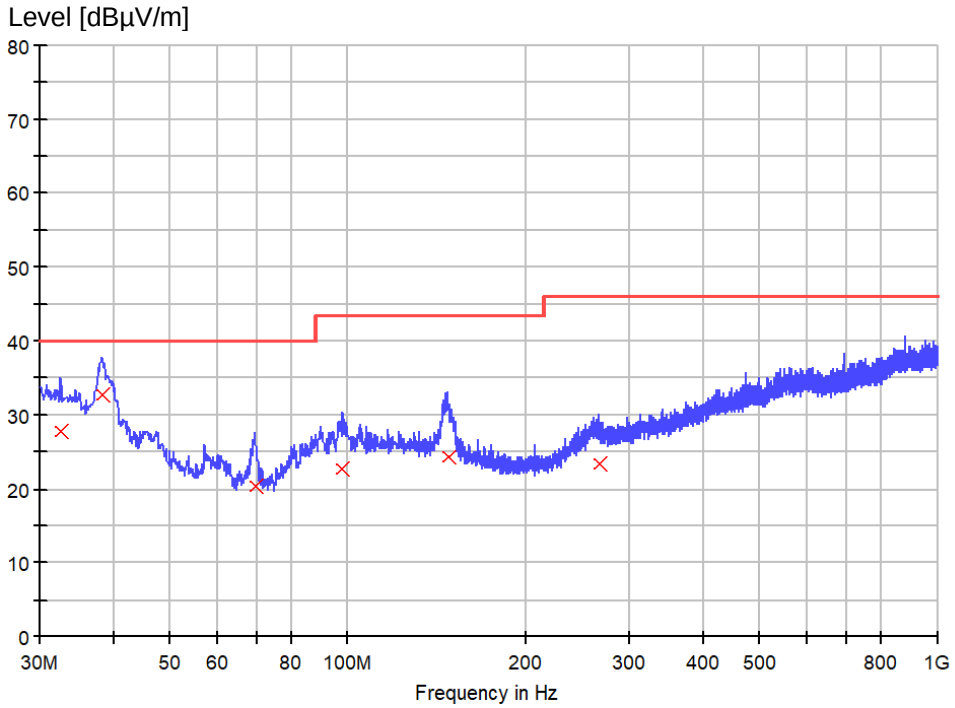
Figure 7: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.818750	27.3	120.000	200.0	H	180.0	23.9	12.7	40.0
37.396250	24.5	120.000	200.0	H	180.0	21.2	15.5	40.0
98.506250	22.4	120.000	200.0	H	180.0	17.4	21.1	43.5
145.793750	24.8	120.000	200.0	H	180.0	17.8	18.8	43.5
270.317500	23.1	120.000	200.0	H	180.0	20.1	22.9	46.0
616.728750	30.5	120.000	200.0	H	180.0	27.0	15.5	46.0

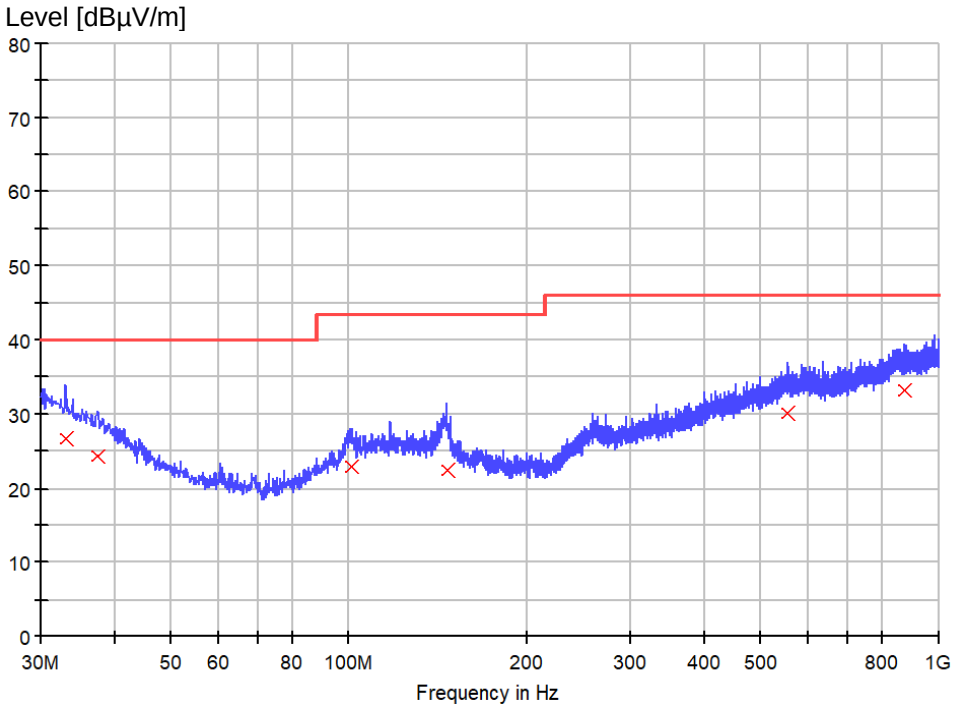
Figure 8: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
32.546250	27.8	120.000	100.0	V	180.0	23.6	12.2	40.0
38.340000	32.8	120.000	100.0	V	180.0	20.7	7.2	40.0
69.648750	20.3	120.000	100.0	V	180.0	12.6	19.7	40.0
98.021250	22.7	120.000	100.0	V	180.0	17.4	20.8	43.5
147.370000	24.3	120.000	100.0	V	180.0	17.7	19.2	43.5
267.043750	23.5	120.000	100.0	V	180.0	20.5	22.5	46.0

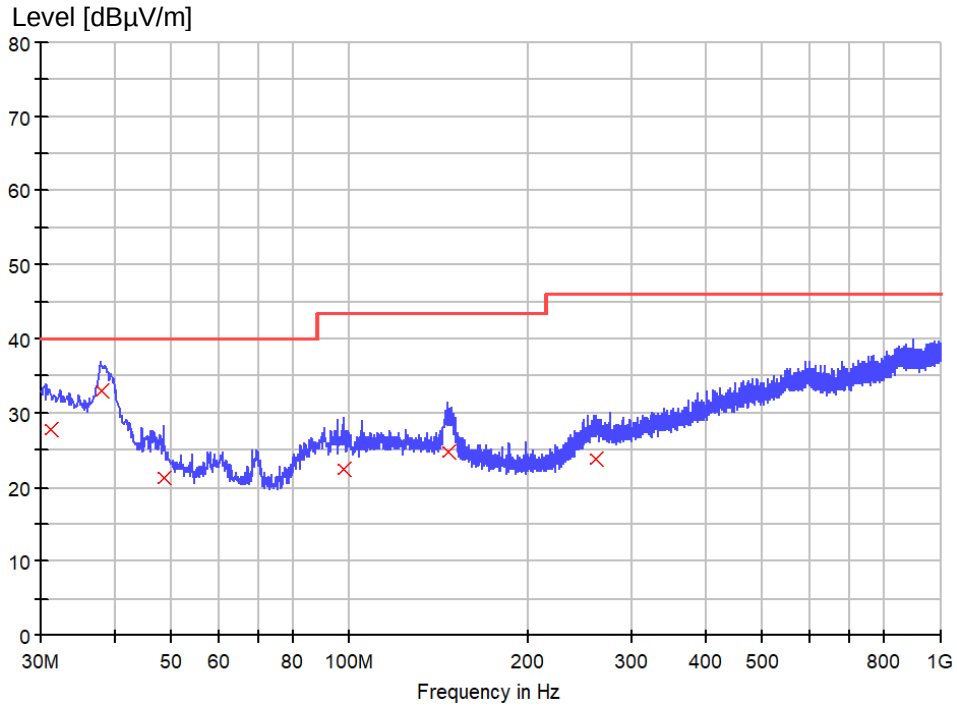
Figure 9: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
33.031250	26.7	120.000	200.0	H	-180.0	23.4	13.4	40.0
37.517500	24.4	120.000	200.0	H	-180.0	21.1	15.6	40.0
100.931250	22.9	120.000	200.0	H	-180.0	17.7	20.6	43.5
147.006250	22.5	120.000	200.0	H	-180.0	17.7	21.0	43.5
555.618750	30.1	120.000	200.0	H	-180.0	26.7	15.9	46.0
873.051250	33.3	120.000	200.0	H	-180.0	28.7	12.7	46.0

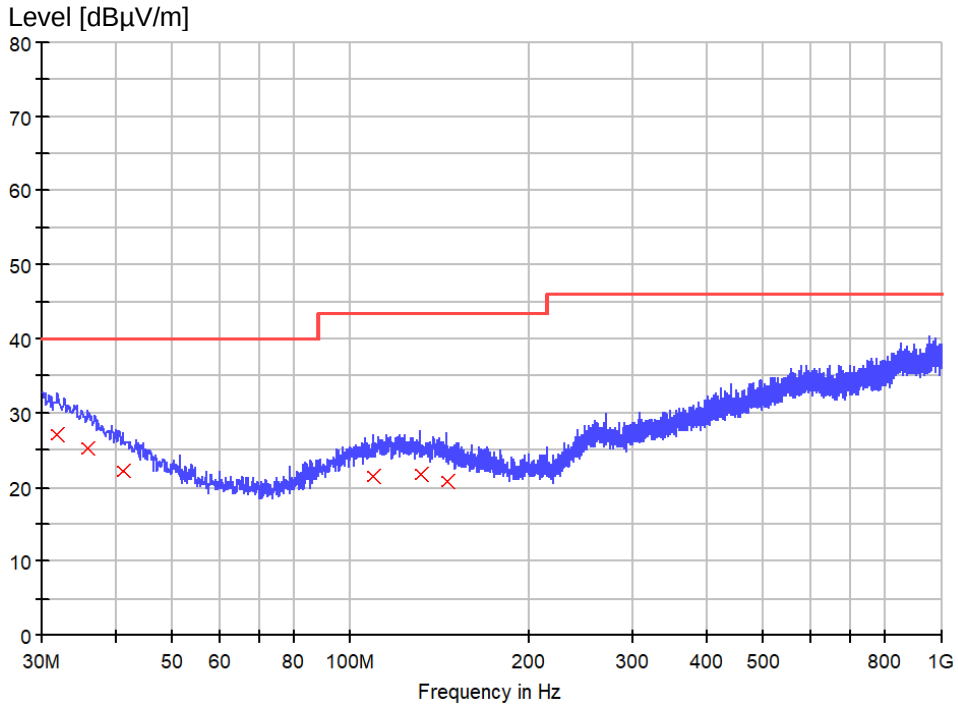
Figure 10: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.091250	27.9	120.000	100.0	V	180.0	24.3	12.2	40.0
37.980000	33.1	120.000	100.0	V	180.0	20.9	6.9	40.0
48.308750	21.2	120.000	100.0	V	180.0	15.7	18.8	40.0
97.415000	22.4	120.000	100.0	V	180.0	17.3	21.1	43.5
146.642500	24.8	120.000	100.0	V	180.0	17.7	18.7	43.5
261.587500	23.9	120.000	100.0	V	180.0	20.9	22.1	46.0

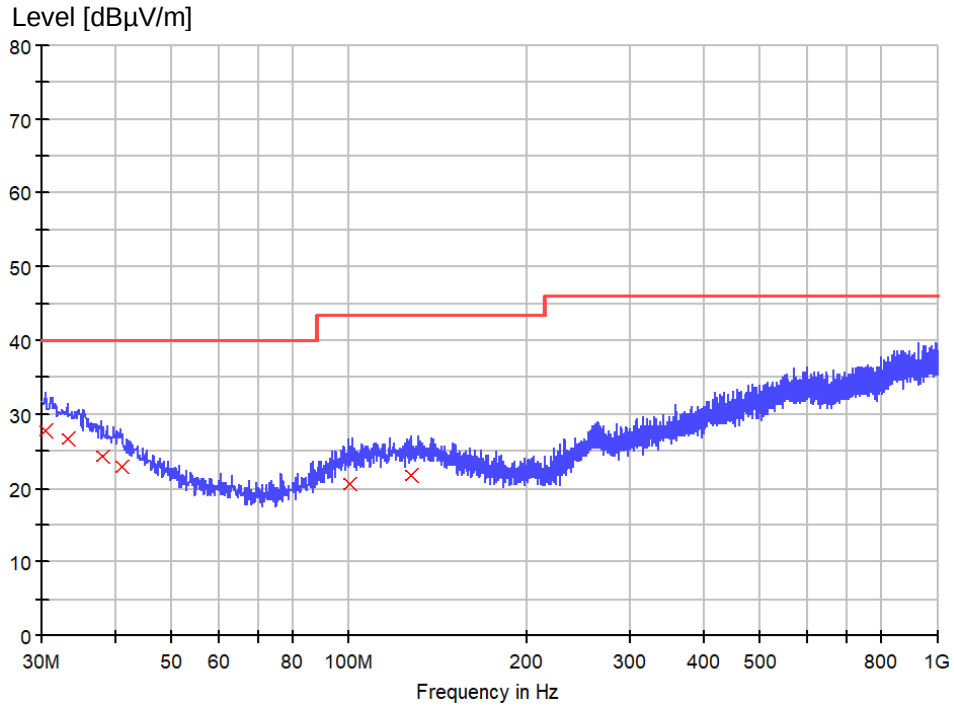
Figure 11: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 3



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.940000	27.2	120.000	100.0	H	85.0	23.9	12.8	40.0
35.941250	25.2	120.000	100.0	H	85.0	22.0	14.8	40.0
41.155000	22.3	120.000	100.0	H	85.0	19.1	17.7	40.0
108.812500	21.5	120.000	100.0	H	85.0	18.5	22.0	43.5
131.001250	21.6	120.000	100.0	H	85.0	18.6	21.9	43.5
145.187500	20.9	120.000	100.0	H	85.0	17.9	22.6	43.5

Figure 12: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 3



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.485000	27.8	120.000	100.0	V	85.0	24.6	12.2	40.0
33.152500	26.6	120.000	100.0	V	85.0	23.4	13.4	40.0
37.881250	24.4	120.000	100.0	V	85.0	20.9	15.7	40.0
40.791250	22.9	120.000	100.0	V	85.0	19.3	17.1	40.0
99.597500	20.7	120.000	100.0	V	85.0	17.6	22.8	43.5
127.121250	21.8	120.000	100.0	V	85.0	18.7	21.7	43.5

6 Photographs of the Test Set-Up

Refer to the test setup file.

7 List of Test and Measurement Instruments

Equip.	Description	Model	Manufacturer	Last Date DD.MM.YYYY	Due Date DD.MM.YYYY
9023229	EMI test receiver	ESR3	Rohde&Schwarz	23.08.2023	23.08.2024
G1811407	Artificial mains network	ENV216	Rohde&Schwarz	01.03.2023	01.03.2024
G1811378	3m semi-anechoic chamber	SAC3	Frankonia	10.06.2021	10.06.2024
G1811391	EMI test receiver	ESCI	Rohde&Schwarz	29.09.2023	29.09.2024
G1811425	Bilog antenna	CBL 6112D	Teseq	20.04.2023	20.04.2026
G1824845	EMC measurement software	EMC32 (Ver 10.20.01)	Rohde&Schwarz	N/A	N/A

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End of test report