

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25BCPY 002	Auftrags-Nr.: <i>Order no.:</i>	326197204	Seite 1 von 35 <i>Page 1 of 35</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	1288983	Auftragsdatum: <i>Order date:</i>	2026-07-14	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	Table lamp			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	B2414, B2414-1			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland EMC service			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2024 Class B ICES-005:2018			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-07-27	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004347089-007			
Prüfzeitraum: <i>Testing period:</i>	2026-07-30~2026-08-07			
Ort der Prüfung: <i>Place of testing:</i>	Refer to clause 1.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>		HeXiong Liu	
Datum: <i>Date:</i>	Jessie Xu 2026-08-28		Ausstellungsdatum: <i>Issue date:</i> 2026-08-28	
Stellung / Position:	Project engineer		Authorizer	
Sonstiges / Other:	FCC ID: FHO-B2414 FCC ID: FHO-B2414-1 Test Firm Name: TUV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979 Refer to clause 2.2 for further information.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* 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. <i>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.</i>				

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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> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p> |
| 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.</i>
<i>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 115:2023, 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 115:2023, 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
CN25BCPY 001	2025-05-20	Initial release.
CN25BCPY 002	2026-08-28	1. Updated standard. 2. Added the new model B2414-1. 3. Added an alternative battery ICBL7.2-18-B1.

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1 Test Sites

1.1 Test Facilities

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

Address: Workshop 14, 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 table lamp for lighting and similar use. For further information, refer to the user's manual.

2.2 Ratings and System Details

Rated input : 5 V DC
Rechargeable Li-Ion Battery, DC 7.2 V, 2600 mAh
Rated power : 5 W
Protection class : Class III

The model B2414 was already EMC tested as described in the report CN25BCPY 001. The report is amended as follows:

1. Compared with the report, one of the above standards has been updated. However, according to the content of update, no additional test is needed.
2. A new model B2414-1 has been added. This model shares the same electrical characteristics as the original one, with differences lying in the type designation, battery compartment structure, and the newly added G4 lamp holder.
3. Added an alternative battery ICBL7.2-18-B1.

Therefore, the EMC tests were performed on the new B2414-1 sample with the battery.

2.3 Independent Operation Modes

The basic operation modes are: "ON" and "OFF" with dimming function.

- Mode 1: EUT was charged via adapter and operated at max lighting output
- Mode 2: EUT was charged via adapter and operated at min lighting output
- Mode 3: EUT was charged via USB port of laptop and operated at max lighting output
- Mode 4: EUT was charged via USB port of laptop and operated at min lighting output
- Mode 5: EUT was powered via internal battery and operated at max lighting output
- Mode 6: EUT was powered via internal battery and operated at min lighting output

2.4 Description of interconnecting cables

N/A.

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 650 kHz.

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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.

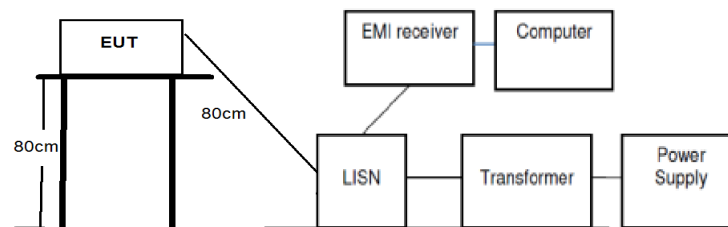
Refer to the related paragraph of this report.

The sequence of testing:

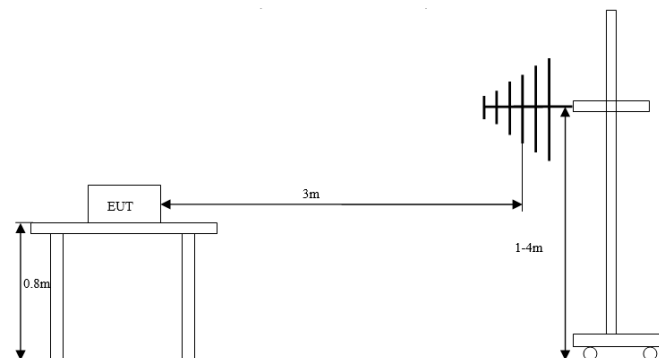
1. Conducted emission tests were performed on 2026-07-30.
2. Radiated emission tests were performed on 2026-08-06~2026-08-07.

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

During the test, the adaptor (model: ICPSW5-5NA-1, brand: IKEA) and laptop (model: T45, brand: ThinkPad) were used as power supply.

3.5 Countermeasures to achieve EMC Compliance

During tests, no special countermeasure 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	: 2026-07-30	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, 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 adapter and power supply of laptop	
Operational mode	: Mode 1 ~ Mode 4, as defined in clause 2.3	
Ambient condition	: Temperature: 24.1 °C; Relative humidity: 52.9 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 13.36 dB at 23.453250 MHz. The margin is higher than expanded measurement uncertainty.	
Test setup photo	: Photograph 1 of Attachment 3	

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 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.

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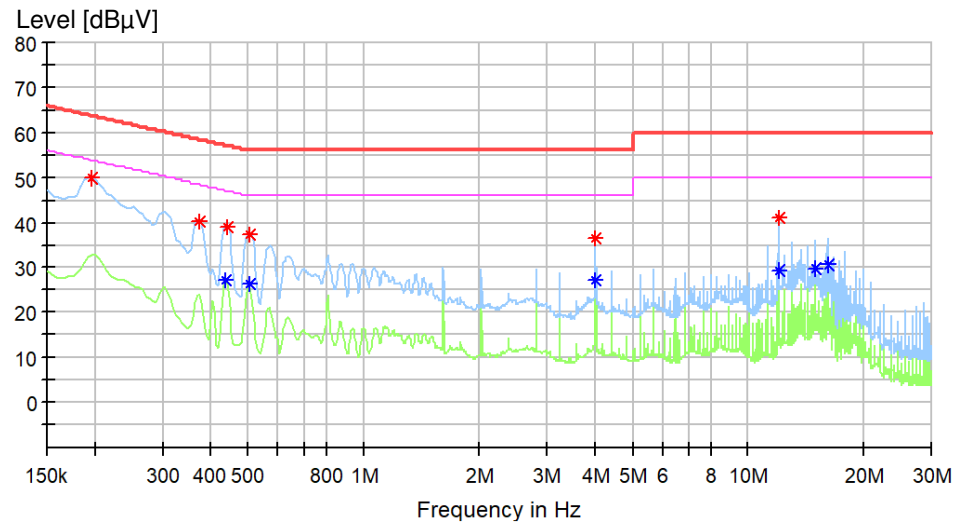
Notes on following tables of conducted emission results and conversions:

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, L1 on mode 1



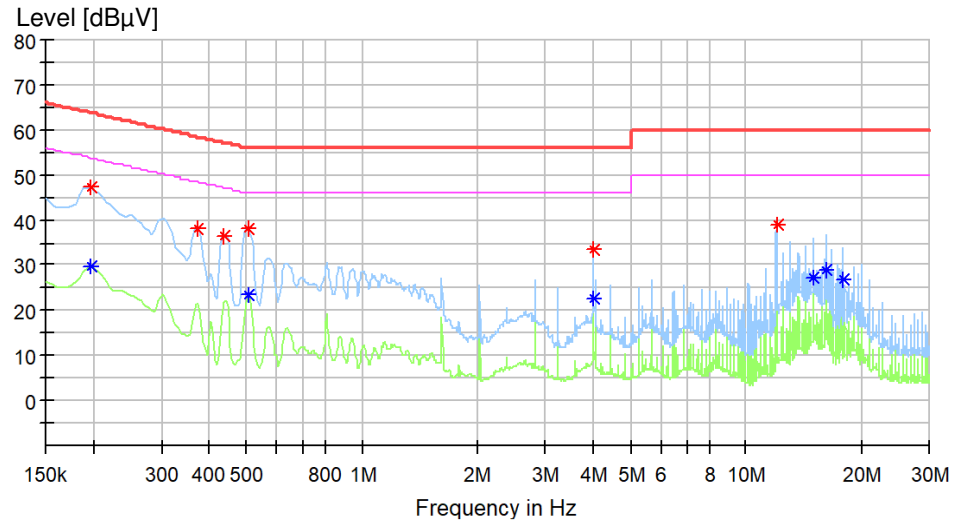
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.197250	49.70	63.73	14.03	L1	10.4
0.372750	40.24	58.44	18.20	L1	10.4
0.440250	38.85	57.06	18.21	L1	10.4
0.507750	37.35	56.00	18.65	L1	10.4
4.008750	36.40	56.00	19.60	L1	10.4
12.027750	41.08	60.00	18.92	L1	10.9

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.435750	27.16	47.14	19.99	L1	10.4
0.503250	26.41	46.00	19.59	L1	10.4
4.008750	27.27	46.00	18.73	L1	10.4
12.027750	29.19	50.00	20.81	L1	10.9
14.880750	29.93	50.00	20.07	L1	11.0
16.068750	30.75	50.00	19.25	L1	11.0

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



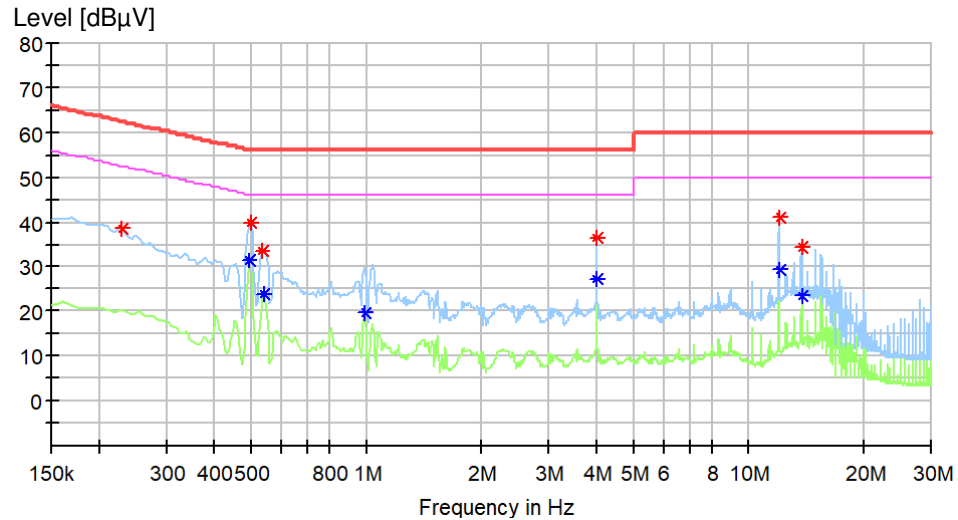
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.197250	47.14	63.73	16.58	N	10.3
0.372750	38.11	58.44	20.33	N	10.3
0.435750	36.62	57.14	20.52	N	10.3
0.503250	38.17	56.00	17.83	N	10.3
4.008750	33.43	56.00	22.57	N	10.4
12.027750	39.14	60.00	20.86	N	10.9

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.197250	29.61	53.73	24.12	N	10.3
0.503250	23.36	46.00	22.64	N	10.3
4.008750	22.56	46.00	23.44	N	10.4
14.898750	27.29	50.00	22.71	N	10.9
16.086750	28.91	50.00	21.09	N	11.0
17.877750	26.74	50.00	23.26	N	11.1

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1 on mode 2



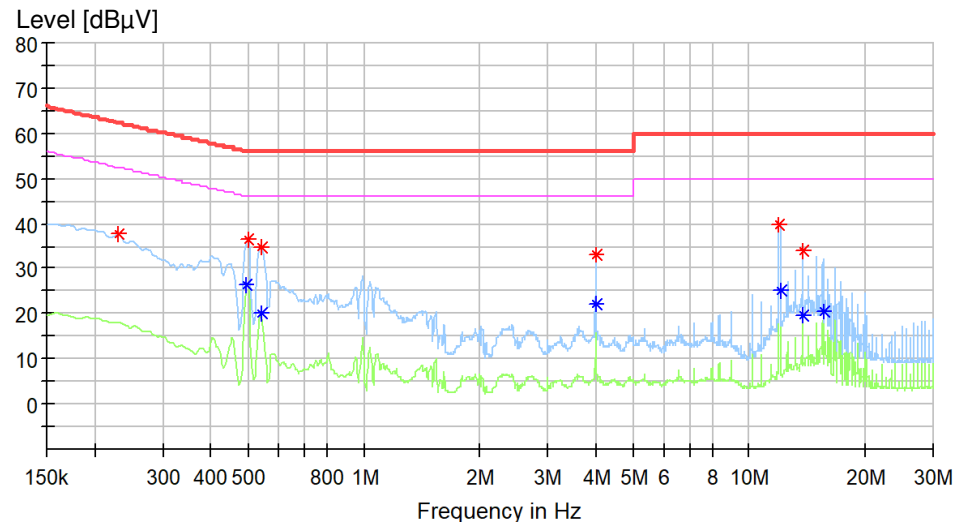
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.228750	38.63	62.50	23.86	L1	10.4
0.498750	39.62	56.02	16.40	L1	10.4
0.534750	33.43	56.00	22.57	L1	10.4
4.004250	36.38	56.00	19.62	L1	10.4
12.014250	41.27	60.00	18.73	L1	10.9
13.733250	34.46	60.00	25.54	L1	10.9

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.494250	31.49	46.10	14.61	L1	10.4
0.539250	24.02	46.00	21.98	L1	10.4
0.993750	19.67	46.00	26.33	L1	10.4
4.008750	27.18	46.00	18.82	L1	10.4
12.018750	29.31	50.00	20.69	L1	10.9
13.737750	23.47	50.00	26.53	L1	10.9

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



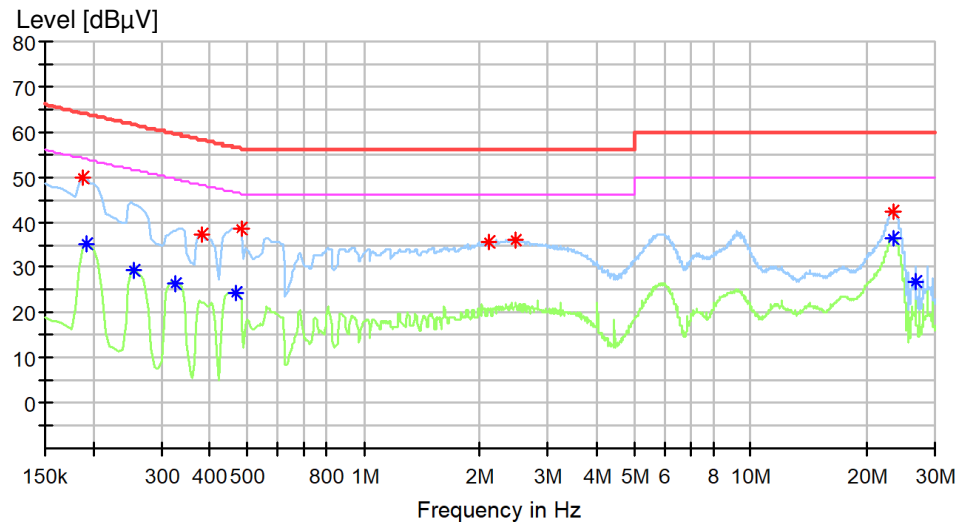
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.228750	37.66	62.50	24.84	N	10.3
0.498750	36.35	56.02	19.67	N	10.3
0.539250	34.83	56.00	21.17	N	10.3
3.999750	33.21	56.00	22.79	N	10.4
11.991750	39.91	60.00	20.09	N	10.9
13.746750	34.13	60.00	25.87	N	10.9

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.494250	26.50	46.10	19.60	N	10.3
0.539250	19.96	46.00	26.04	N	10.3
3.999750	22.03	46.00	23.97	N	10.4
12.005250	25.01	50.00	24.99	N	10.9
13.751250	19.92	50.00	30.08	N	10.9
15.546750	20.35	50.00	29.65	N	11.0

Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1 on mode 3



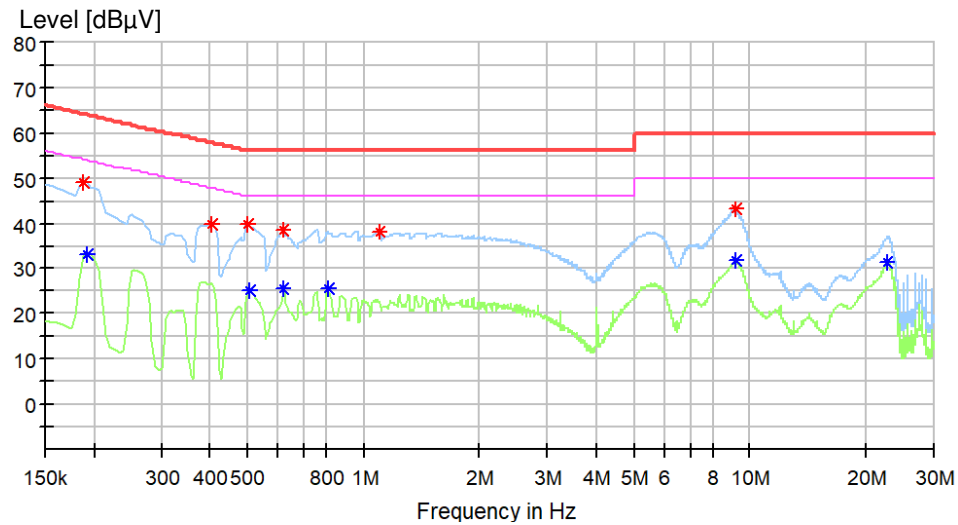
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.188250	49.96	64.11	14.15	L1	10.4
0.381750	37.17	58.24	21.07	L1	10.4
0.480750	38.66	56.33	17.67	L1	10.4
2.118750	35.55	56.00	20.45	L1	10.4
2.478750	36.22	56.00	19.78	L1	10.4
23.471250	42.44	60.00	17.56	L1	11.3

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.192750	35.11	53.92	18.81	L1	10.4
0.255750	29.37	51.57	22.20	L1	10.4
0.327750	26.60	49.51	22.91	L1	10.4
0.467250	24.33	46.56	22.23	L1	10.4
23.453250	36.64	50.00	13.36	L1	11.3
26.792250	26.74	50.00	23.26	L1	11.4

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



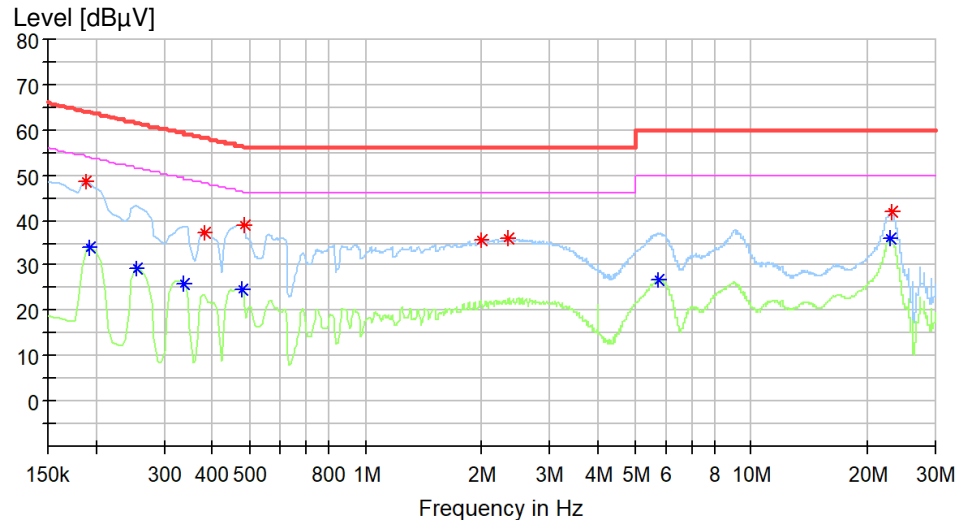
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.188250	49.05	64.11	15.06	N	10.3
0.404250	39.64	57.77	18.13	N	10.3
0.498750	39.79	56.02	16.23	N	10.3
0.620250	38.76	56.00	17.24	N	10.3
1.101750	38.35	56.00	17.65	N	10.3
9.237750	43.11	60.00	16.89	N	10.8

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.192750	33.26	53.92	20.66	N	10.3
0.503250	25.32	46.00	20.68	N	10.3
0.620250	25.49	46.00	20.51	N	10.3
0.809250	25.71	46.00	20.29	N	10.3
9.237750	31.68	50.00	18.32	N	10.8
22.620750	31.33	50.00	18.67	N	11.4

Figure 7: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1 on mode 4



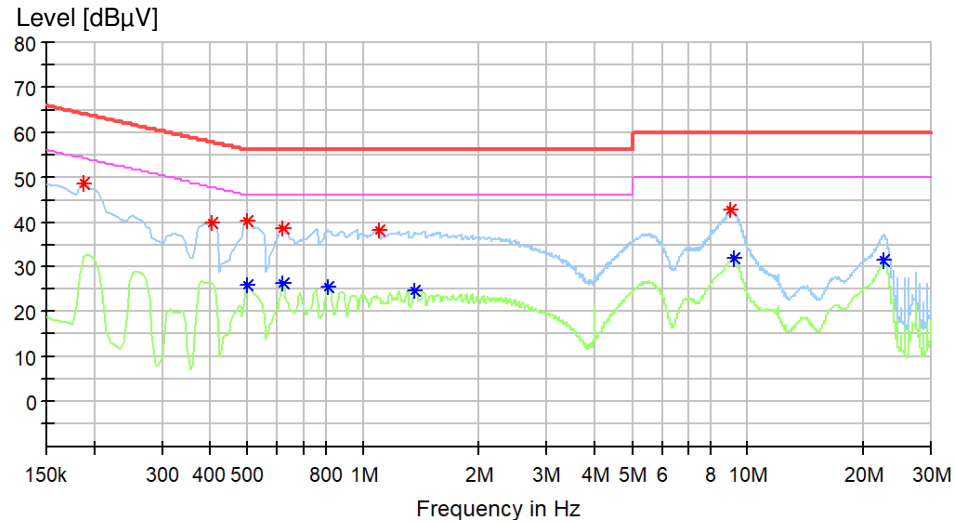
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.188250	48.49	64.11	15.62	L1	10.4
0.381750	37.10	58.24	21.14	L1	10.4
0.480750	39.14	56.33	17.19	L1	10.4
2.001750	35.68	56.00	20.32	L1	10.4
2.343750	35.88	56.00	20.12	L1	10.4
23.034750	41.79	60.00	18.21	L1	11.3

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.192750	33.97	53.92	19.95	L1	10.4
0.255750	29.35	51.57	22.22	L1	10.4
0.336750	26.19	49.28	23.09	L1	10.4
0.476250	24.74	46.40	21.67	L1	10.4
5.763750	26.81	50.00	23.19	L1	10.5
22.971750	35.90	50.00	14.10	L1	11.3

Figure 8: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N on mode 4



Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.188250	48.51	64.11	15.60	N	10.3
0.404250	39.79	57.77	17.98	N	10.3
0.498750	40.10	56.02	15.92	N	10.3
0.620250	38.72	56.00	17.28	N	10.3
1.101750	38.20	56.00	17.80	N	10.3
9.044250	42.75	60.00	17.25	N	10.7

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.498750	26.16	46.02	19.86	N	10.3
0.620250	26.57	46.00	19.43	N	10.3
0.809250	25.58	46.00	20.42	N	10.3
1.367250	24.77	46.00	21.23	N	10.4
9.179250	31.69	50.00	18.31	N	10.7
22.728750	31.24	50.00	18.76	N	11.4

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	: 2026-08-06~2026-08-07
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, 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 adapter and power supply of laptop DC 7.2 V, 2600 mAh for internal battery
Operational mode	: Mode 1 ~ Mode 6, as defined in clause 2.3
Ambient condition	: Temperature: 23.8 °C; Relative humidity: 54.8 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 6.2 dB at 211.875000 MHz. The margin is higher than expanded measurement uncertainty.
Test setup photo	: Photograph 2 of Attachment 3

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 measured by an automatic measurement system. A preview test was first 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 (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)

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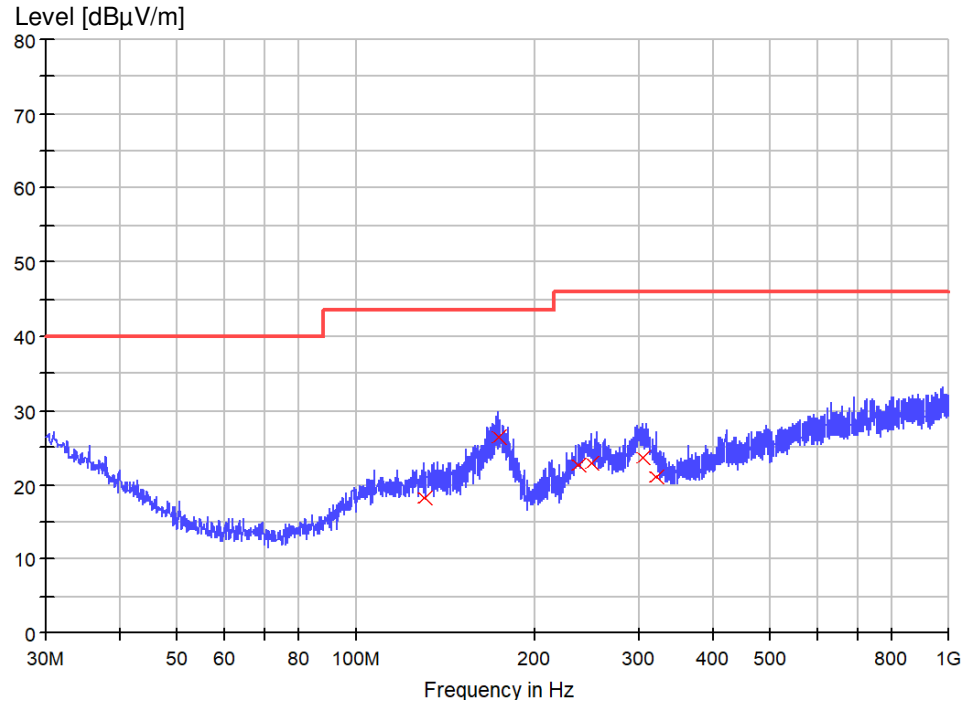
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Note 1: The highest frequency in the EUT is less than 108 MHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 1000 MHz.

Note 2: The class B limits of ICES-005:2018 is stricter than those FCC 47 CFR Part 15, Subpart B:2024 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

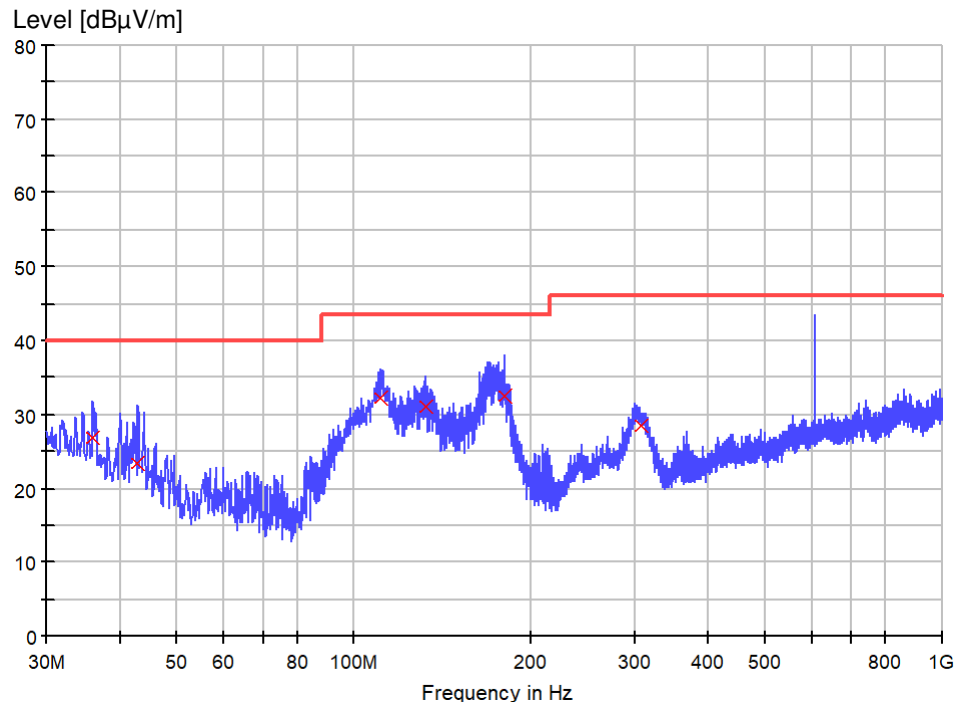
Figure 9: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1



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)
130.031250	18.2	120.000	141.0	H	123.0	18.5	25.3	43.5
173.438750	26.4	120.000	115.0	H	-136.0	16.2	17.1	43.5
237.822500	22.7	120.000	192.0	H	-79.0	18.5	23.3	46.0
250.311250	22.9	120.000	159.0	H	148.0	19.4	23.1	46.0
303.782500	23.7	120.000	190.0	H	-115.0	20.7	22.3	46.0
320.393750	21.1	120.000	144.0	H	95.0	21.0	24.9	46.0

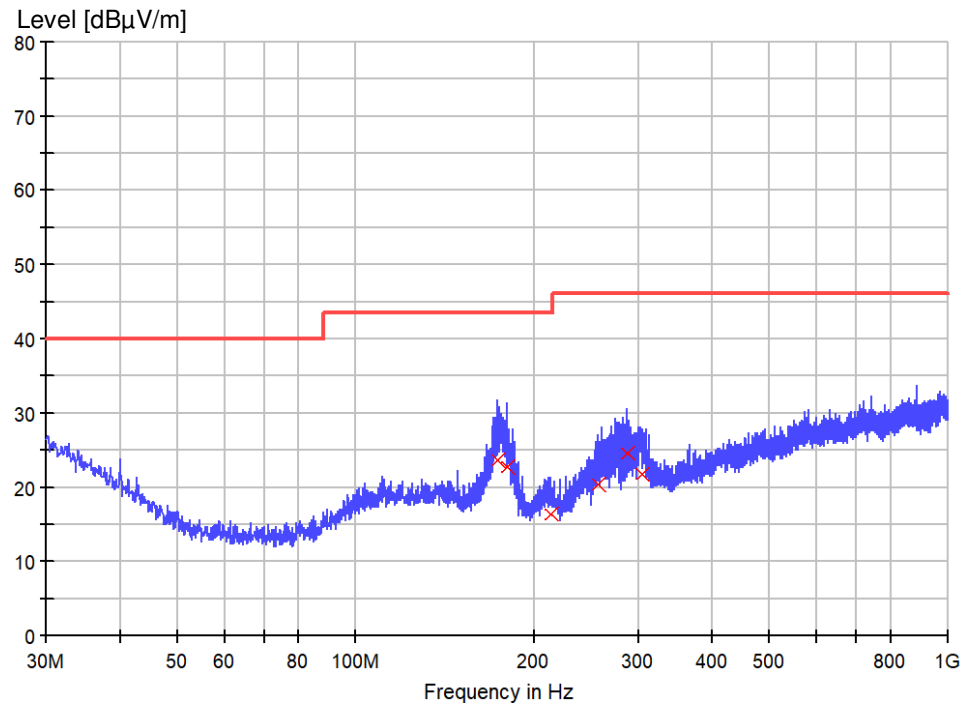
Figure 10: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1



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)
35.941250	26.8	120.000	118.0	V	105.0	22.1	13.2	40.0
42.852500	23.5	120.000	162.0	V	172.0	18.2	16.6	40.0
111.116250	32.4	120.000	148.0	V	1.0	18.7	11.2	43.5
131.850000	31.2	120.000	123.0	V	-62.0	18.5	12.4	43.5
179.986250	32.5	120.000	147.0	V	-14.0	16.1	11.0	43.5
307.177500	28.6	120.000	121.0	V	-6.0	20.4	17.4	46.0

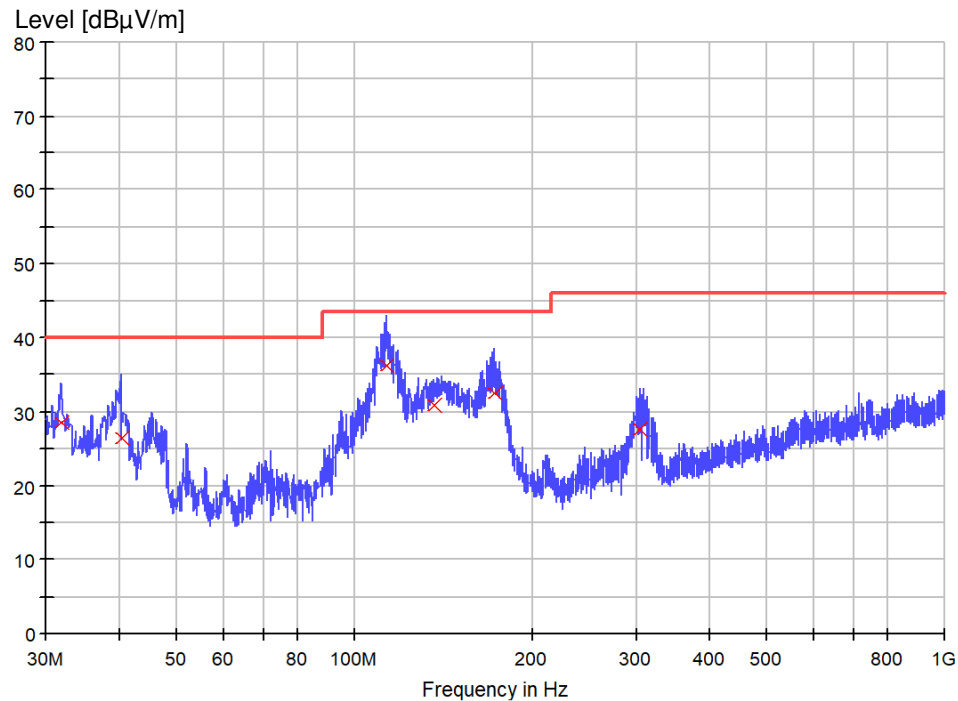
Figure 11: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2



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)
174.045000	23.5	120.000	191.0	H	53.0	16.1	20.0	43.5
179.986250	22.8	120.000	118.0	H	-114.0	16.1	20.7	43.5
213.087500	16.3	120.000	161.0	H	17.0	16.0	27.2	43.5
257.222500	20.4	120.000	131.0	H	85.0	20.7	25.6	46.0
287.898750	24.6	120.000	113.0	H	-98.0	19.9	21.4	46.0
305.358750	21.8	120.000	138.0	H	63.0	20.5	24.2	46.0

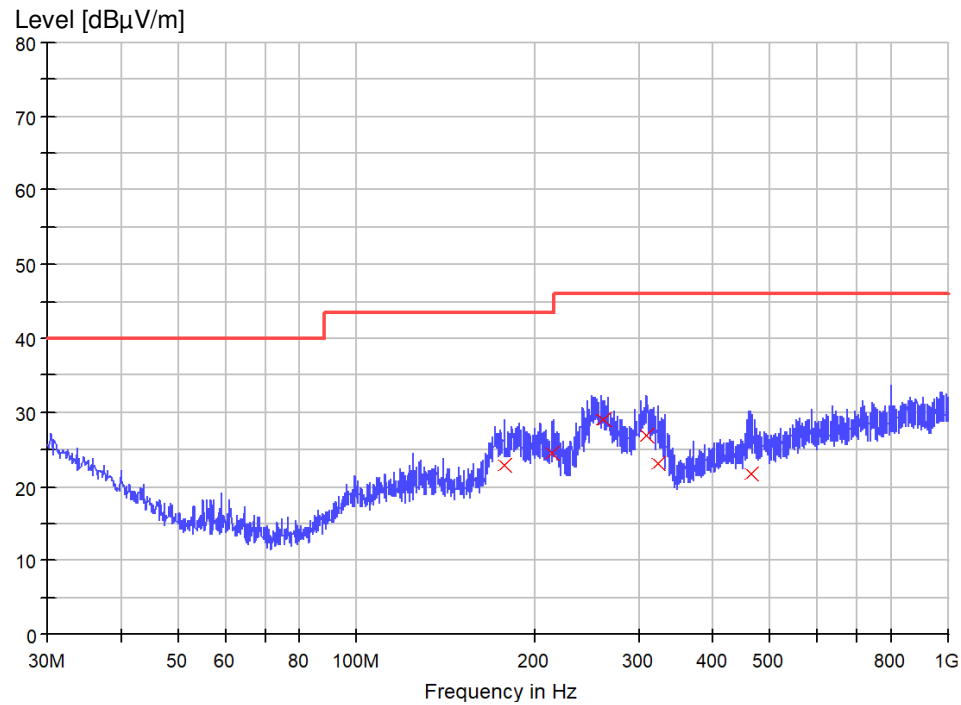
Figure 12: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 2



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)
31.818750	28.6	120.000	100.0	V	30.0	24.4	11.4	40.0
40.185000	26.5	120.000	155.0	V	5.0	19.7	13.5	40.0
112.935000	36.4	120.000	109.0	V	-171.0	18.7	7.2	43.5
136.336250	30.9	120.000	169.0	V	-34.0	18.2	12.6	43.5
172.832500	32.6	120.000	151.0	V	-56.0	16.2	10.9	43.5
305.601250	27.6	120.000	139.0	V	129.0	20.5	18.4	46.0

Figure 13: 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)
177.803750	22.9	120.000	181.0	H	137.0	16.1	20.6	43.5
213.572500	24.5	120.000	153.0	H	-117.0	16.0	19.1	43.5
260.496250	28.9	120.000	164.0	H	146.0	21.5	17.1	46.0
310.330000	27.0	120.000	103.0	H	-9.0	20.2	19.0	46.0
324.031250	23.1	120.000	115.0	H	63.0	21.2	22.9	46.0
464.923750	21.7	120.000	149.0	H	-78.0	24.7	24.3	46.0

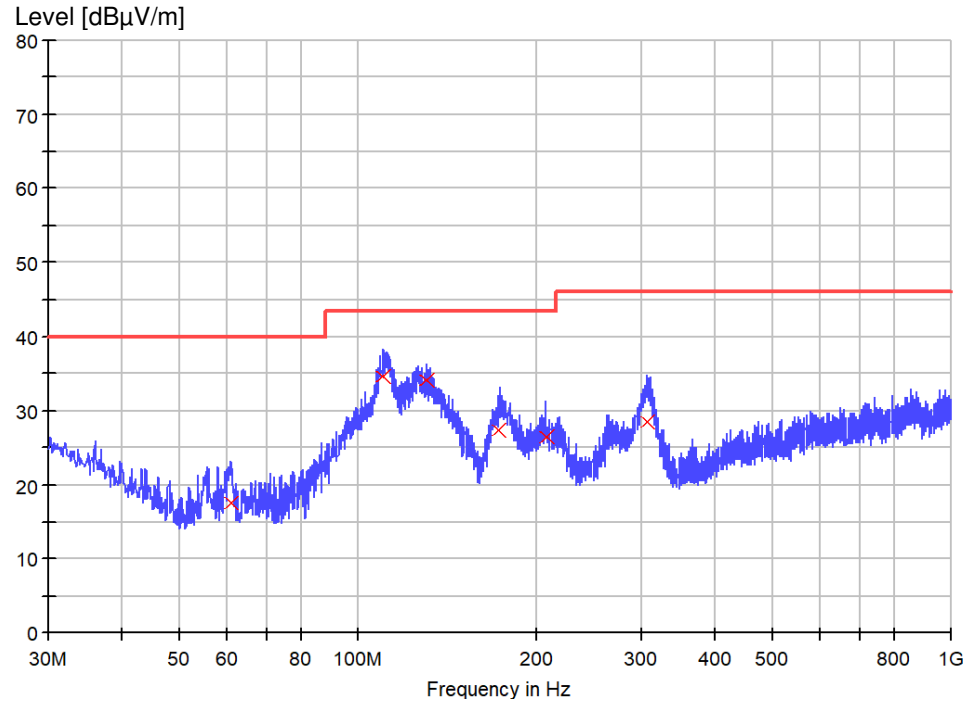
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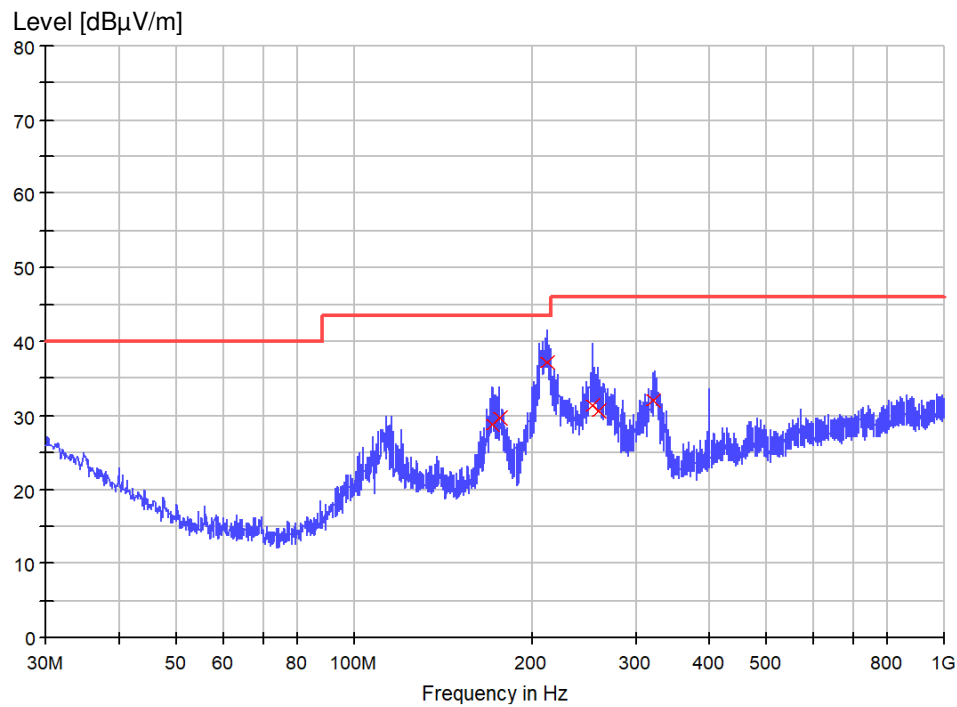
Figure 14: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 3



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)
61.161250	17.5	120.000	116.0	V	-15.0	12.6	22.5	40.0
110.388750	34.7	120.000	148.0	V	102.0	18.6	8.8	43.5
130.152500	34.1	120.000	102.0	V	-174.0	18.5	9.4	43.5
172.468750	27.4	120.000	184.0	V	-161.0	16.2	16.1	43.5
207.995000	26.4	120.000	200.0	V	53.0	16.2	17.1	43.5
307.905000	28.5	120.000	190.0	V	43.0	20.3	17.5	46.0

Figure 15: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 4



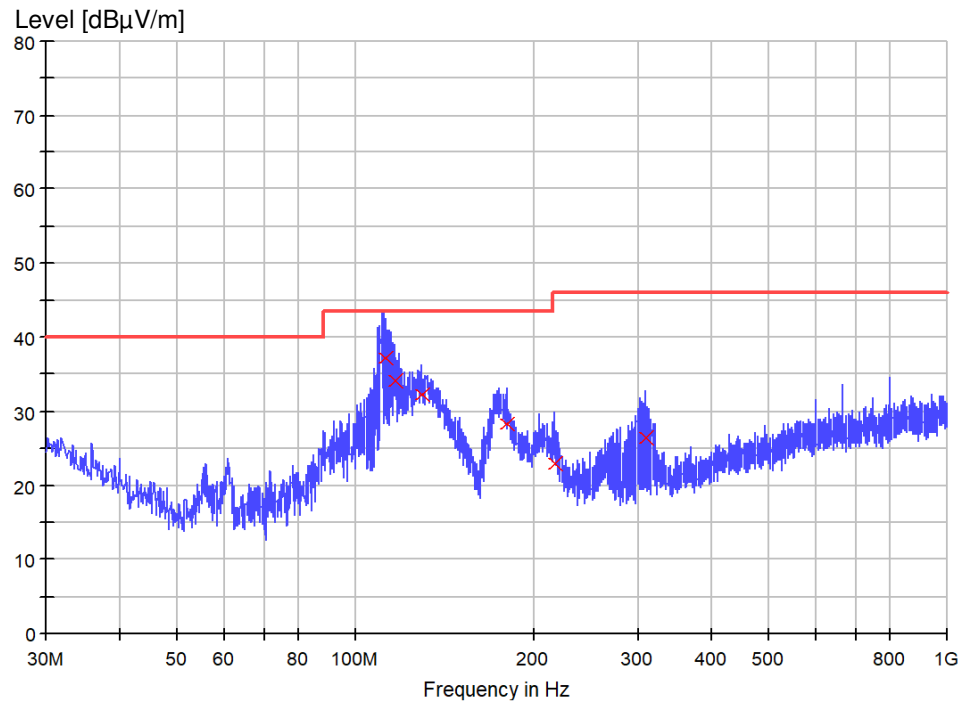
Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
171.256250	28.7	120.000	113.0	H	-13.0	16.2	14.8	43.5
176.712500	29.7	120.000	116.0	H	170.0	16.1	13.8	43.5
211.875000	37.3	120.000	179.0	H	-147.0	16.1	6.2	43.5
253.463750	31.4	120.000	111.0	H	-37.0	19.9	14.6	46.0
259.768750	30.6	120.000	103.0	H	154.0	21.4	15.4	46.0
321.606250	32.1	120.000	134.0	H	173.0	21.2	13.9	46.0

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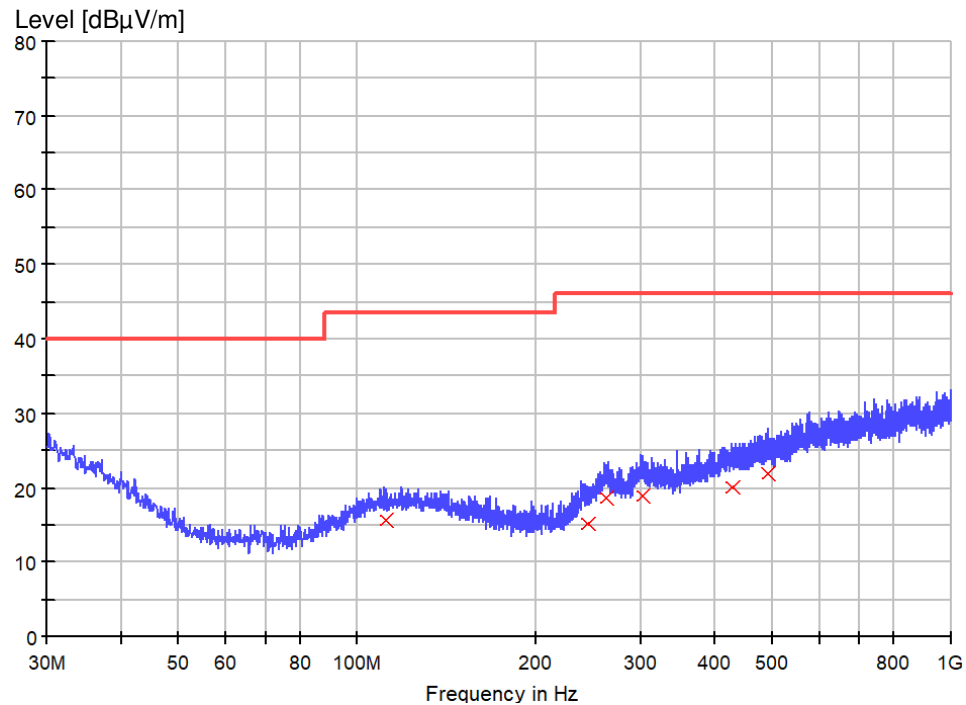
Figure 16: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 4



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)
112.571250	37.2	120.000	159.0	V	-154.0	18.7	6.3	43.5
116.693750	34.1	120.000	182.0	V	61.0	18.8	9.4	43.5
129.546250	32.2	120.000	129.0	V	45.0	18.6	11.3	43.5
179.743750	28.3	120.000	115.0	V	108.0	16.1	15.2	43.5
217.452500	23.0	120.000	173.0	V	12.0	16.0	23.0	46.0
308.632500	26.5	120.000	197.0	V	158.0	20.3	19.5	46.0

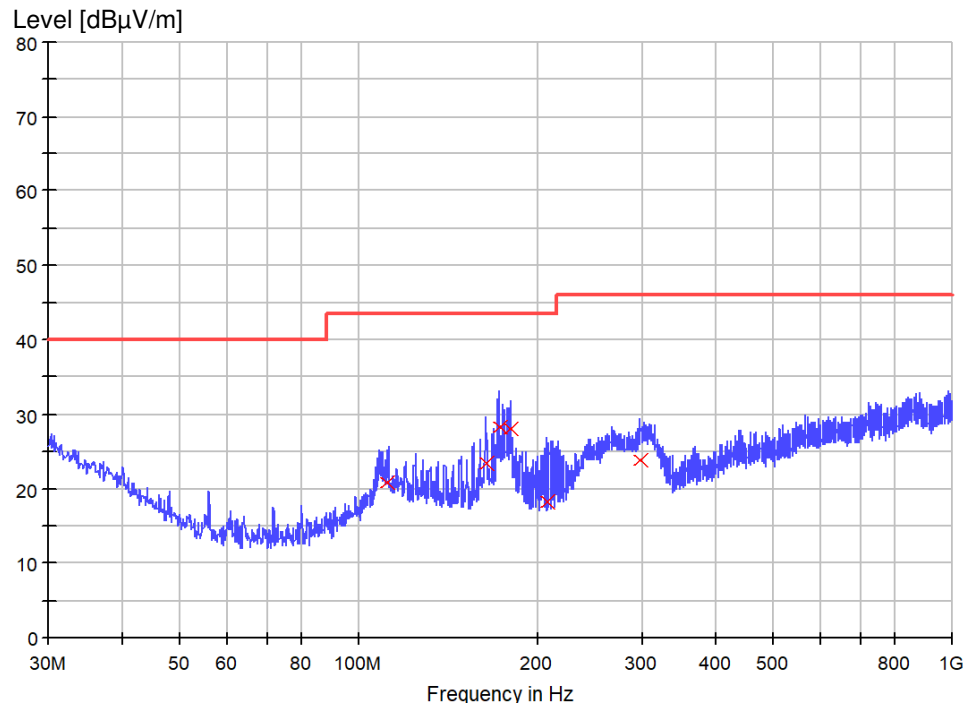
Figure 17: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 5



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)
111.358750	15.6	120.000	183.0	H	-51.0	18.7	27.9	43.5
244.370000	15.1	120.000	182.0	H	-96.0	19.1	30.9	46.0
263.527500	18.8	120.000	142.0	H	157.0	21.5	27.2	46.0
302.206250	18.9	120.000	100.0	H	65.0	20.8	27.1	46.0
429.155000	20.2	120.000	150.0	H	10.0	23.9	25.8	46.0
490.628750	21.9	120.000	148.0	H	1.0	25.5	24.1	46.0

Figure 18: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 5



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)
111.722500	20.9	120.000	161.0	V	117.0	18.7	22.6	43.5
164.345000	23.4	120.000	120.0	V	-168.0	16.7	20.1	43.5
171.983750	28.4	120.000	142.0	V	44.0	16.2	15.1	43.5
179.986250	28.0	120.000	172.0	V	-66.0	16.1	15.5	43.5
208.116250	18.2	120.000	149.0	V	59.0	16.2	25.3	43.5
297.477500	23.9	120.000	193.0	V	-34.0	20.6	22.1	46.0

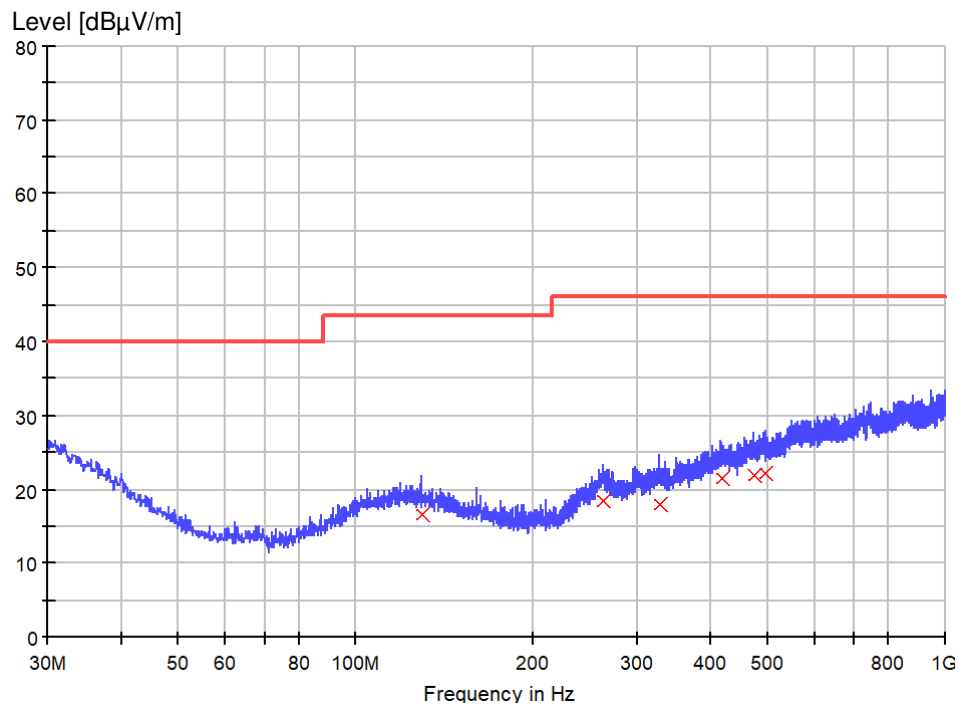
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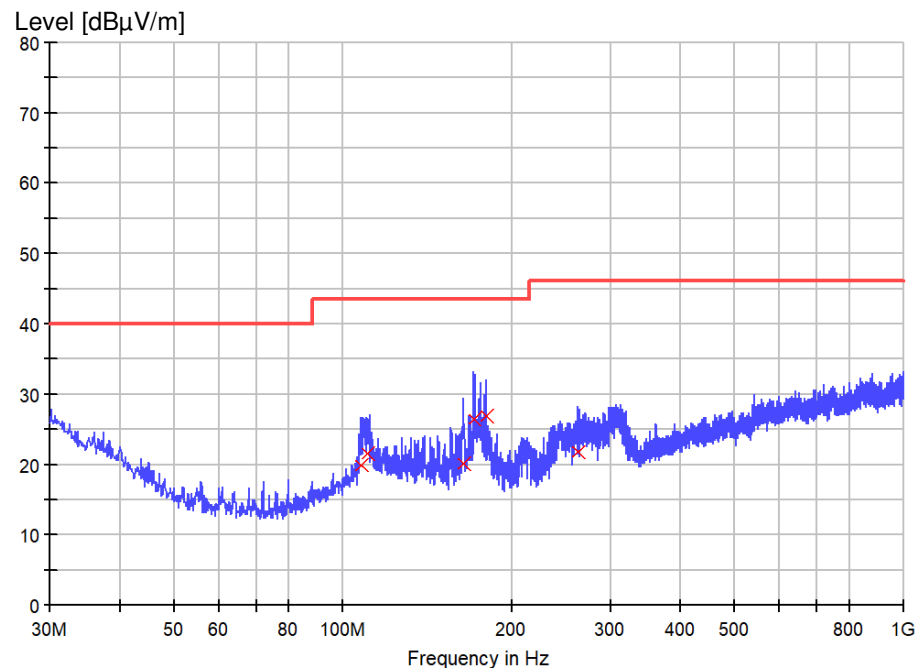
Figure 19: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 6



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)
128.940000	16.6	120.000	114.0	H	-129.0	18.6	26.9	43.5
263.527500	18.4	120.000	163.0	H	-61.0	21.5	27.6	46.0
327.062500	18.1	120.000	107.0	H	-179.0	21.3	27.9	46.0
417.636250	21.6	120.000	126.0	H	152.0	24.0	24.4	46.0
474.381250	22.1	120.000	104.0	H	50.0	24.8	23.9	46.0
496.933750	22.3	120.000	119.0	H	-88.0	25.0	23.7	46.0

Figure 20: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 6



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)
107.842500	19.9	120.000	141.0	V	-178.0	18.4	23.6	43.5
111.116250	21.5	120.000	170.0	V	-77.0	18.7	22.0	43.5
163.738750	20.2	120.000	142.0	V	-14.0	16.7	23.3	43.5
171.377500	26.5	120.000	140.0	V	-122.0	16.2	17.0	43.5
179.865000	26.9	120.000	194.0	V	70.0	16.1	16.6	43.5
263.285000	21.8	120.000	153.0	V	-138.0	21.5	24.2	46.0

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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	2026-06-12	2027-06-12
EMC-C-195	EMI test receiver	ESR3	102794	Rohde & Schwarz	2026-07-24	2027-07-24
EMC-C-190	Artificial mains network	ENV432	101514	Rohde & Schwarz	2025-09-02	2026-09-02
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	2026-05-19	2027-05-19
EMC-C-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2025-09-28	2026-09-28
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