

Prüfbericht-Nr.: Test Report No.:	CN259M71 001	Auftrags-Nr.: Order No.:	326090938	Seite 1 von 41 Page 1 of 41
Kunden-Referenz-Nr.: Client Reference No.:	1288983	Auftragsdatum: Order date.:	2025-01-13	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	Self-ballasted LED lamps			
Bezeichnung / Typ-Nr.: Identification / Type No.:	LED2405G8NA			
Auftrags-Inhalt: Order content:	TÜV Rheinland EMC service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15, Subpart B:2023 Class B ICES-005:2018 ICES-003:2020			
Wareneingangsdatum: Date of receipt:	2025-03-21	Refer to the EUT photos file		
Prüfmuster-Nr.: Test sample No.:	A003951539-005			
Prüfzeitraum: Testing period:	Refer to test report			
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:	genehmigt von: authorized by:			
Datum: Date: 2025-04-30	Ausstellungsdatum: Issue date: 2025-04-30			
Stellung: / Position	Project engineer	Stellung: / Position:	Authorizer	
Sonstiges / Other:	FCC ID: FHO- LED2405G8NA 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 specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
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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. <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>
4	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. <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>

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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN259M71 001	2025-04-30	Initial release.

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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 self-ballasted LED lamps for lighting and similar use. For the further information, refer to the user's manual.

2.2 Ratings and System Details

Rated input	: AC 120 V, 60 Hz
Rated power	: 8.1 W
IC	: 10912A-LED2405G8NA

2.3 Independent Operation Modes

The basic operation modes are: "On" or "Off" with dimmer.

The test mode as follows:

"On"

- Mode 1: Warm lighting with the maximum lighting output.
- Mode 2: Warm lighting with the minimum lighting output.
- Mode 3: White lighting with the maximum lighting output.
- Mode 4: White lighting with the minimum lighting output.

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 2480 MHz.

2.7 Submitted Documents

Circuit diagram, label and user's manual.

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.

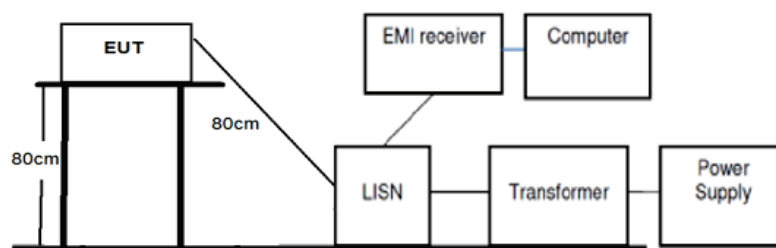
Refer to the related paragraph of this report.

The sequence of testing:

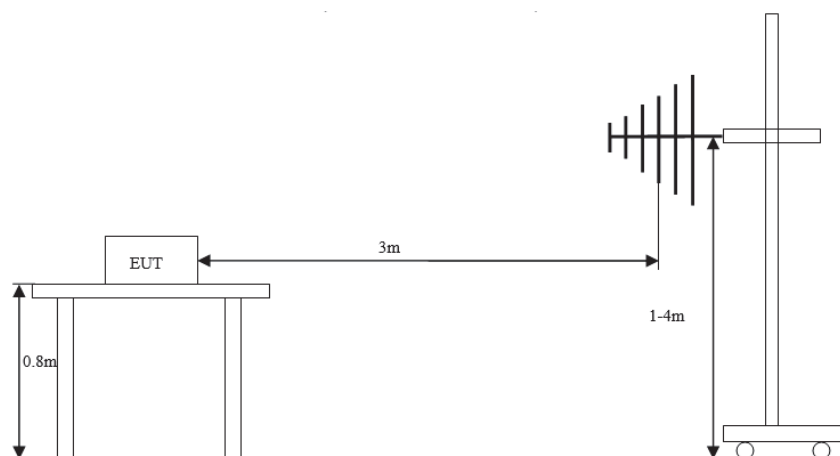
1. Conducted emission tests were performed on 2025-03-28.
2. Radiated emission tests were performed on 2025-04-03.

3.2 Equipment and cable arrangement

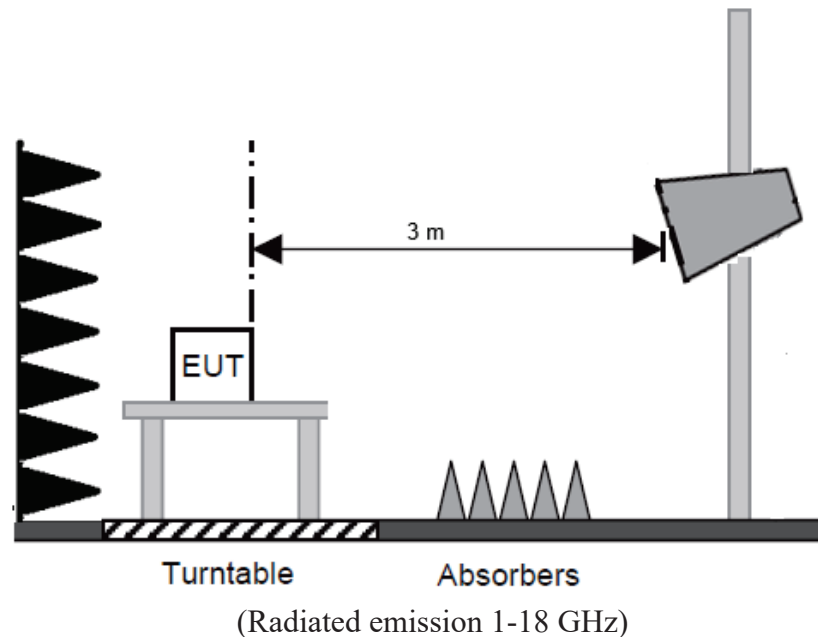
Block diagram for radiated emission tests is as follows:



(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 Physical Configuration for Testing

Refer to the related paragraph of this report.

3.4 Test Operation and Test Software

The “Home” APP for iPhone was used during the tests.

3.5 Special Accessories and Auxiliary Equipment

During the tests, the following auxiliary equipment were used.

No.	Product	Model	Brand
1	Mobile phone	iPhone 15	Apple
2	Loudspeaker	HomePod mini	Apple
3	Remote control	E2489	IKEA

3.6 Countermeasures to achieve EMC Compliance

No special measure is employed to achieve the requirement.

4 Conformity Decision Rule

For all EMI tests (when 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	: 2025-03-28	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ICES-003:2020, 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	
Operational mode	: Mode 1, 2, 3, 4	
Ambient condition	: Temperature: 20.8 °C; Relative humidity: 41.7 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 8.36 dB at 0.181500 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.

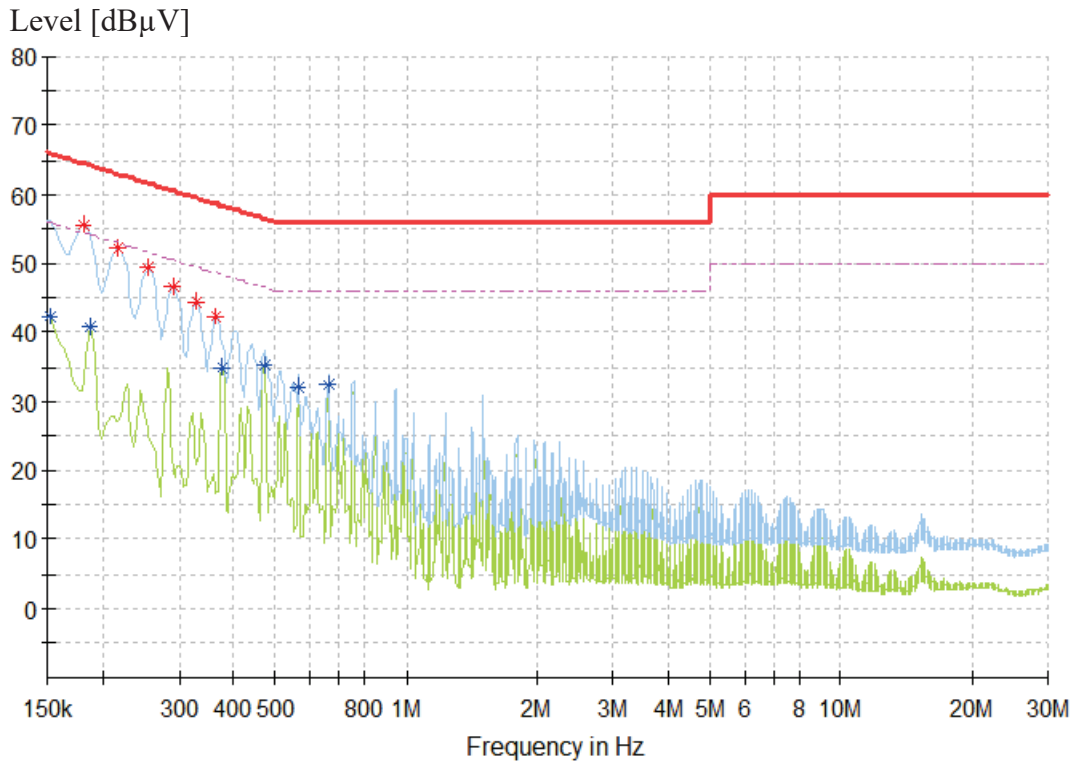
Notes on following tables of conducted emission results and conversions:

Level (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)

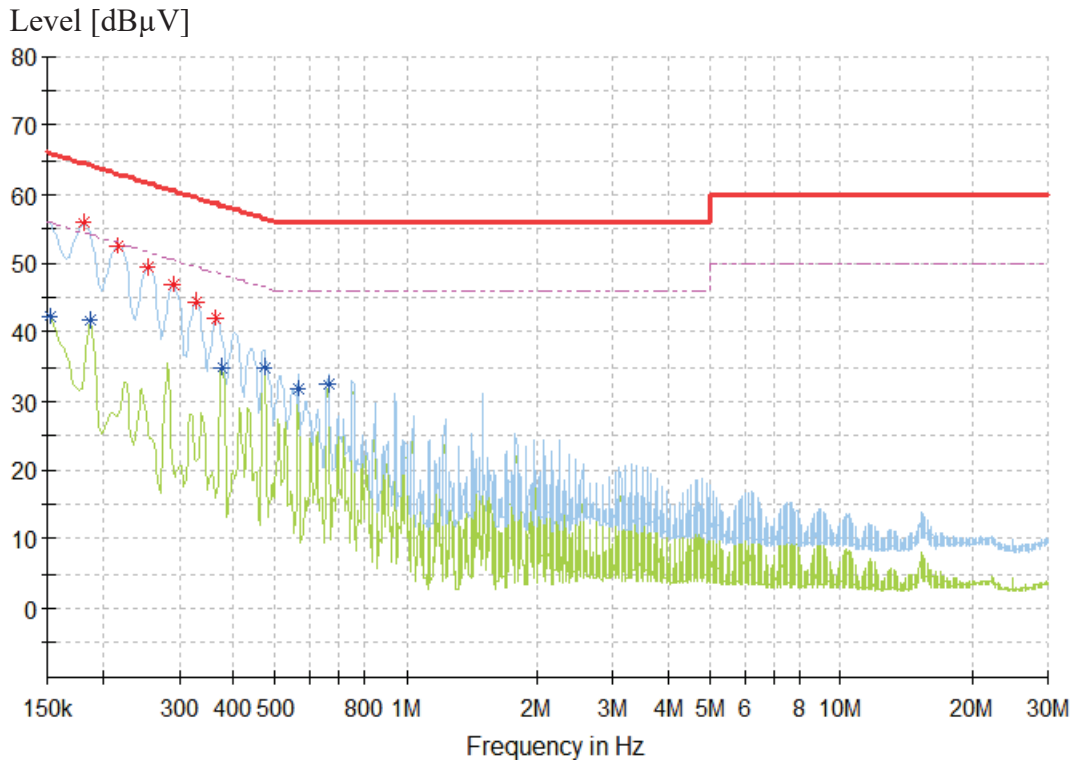
Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line L, mode 1



Final measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.152250	---	42.36	55.88	13.52	L1	10.3
0.181500	55.53	---	64.42	8.89	L1	10.3
0.188250	---	40.86	54.11	13.25	L1	10.3
0.217500	52.08	---	62.91	10.84	L1	10.3
0.255750	49.24	---	61.57	12.32	L1	10.3
0.291750	46.74	---	60.47	13.74	L1	10.3
0.330000	44.45	---	59.45	15.00	L1	10.3
0.366000	42.29	---	58.59	16.30	L1	10.3
0.377250	---	34.75	48.34	13.59	L1	10.3
0.471750	---	35.03	46.48	11.45	L1	10.3
0.566250	---	32.08	46.00	13.92	L1	10.3
0.660750	---	32.37	46.00	13.63	L1	10.3

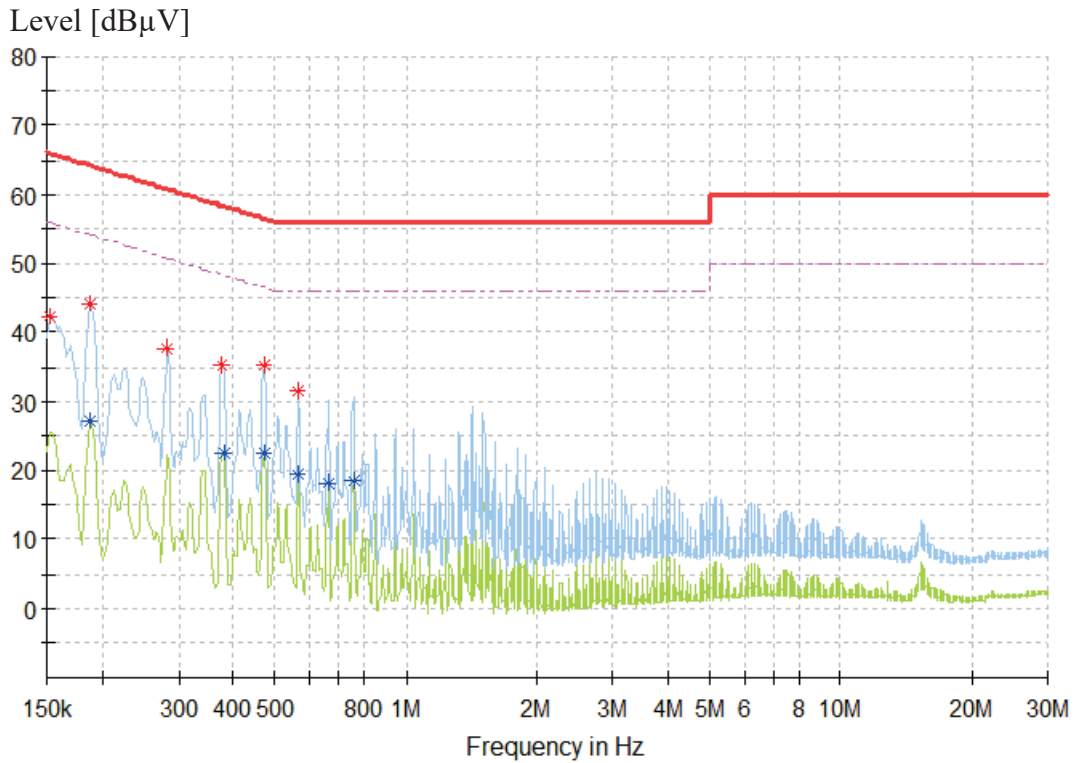
Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line N, mode 1



Final measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.152250	---	42.41	55.88	13.47	N	10.2
0.181500	55.82	---	64.42	8.60	N	10.6
0.188250	---	41.53	54.11	12.59	N	10.7
0.217500	52.57	---	62.91	10.34	N	10.7
0.255750	49.49	---	61.57	12.08	N	10.6
0.291750	46.88	---	60.47	13.59	N	10.6
0.330000	44.44	---	59.45	15.01	N	10.5
0.366000	42.04	---	58.59	16.55	N	10.4
0.377250	---	34.89	48.34	13.45	N	10.4
0.471750	---	34.84	46.48	11.64	N	10.2
0.564000	---	31.87	46.00	14.13	N	10.3
0.658500	---	32.48	46.00	13.52	N	10.4

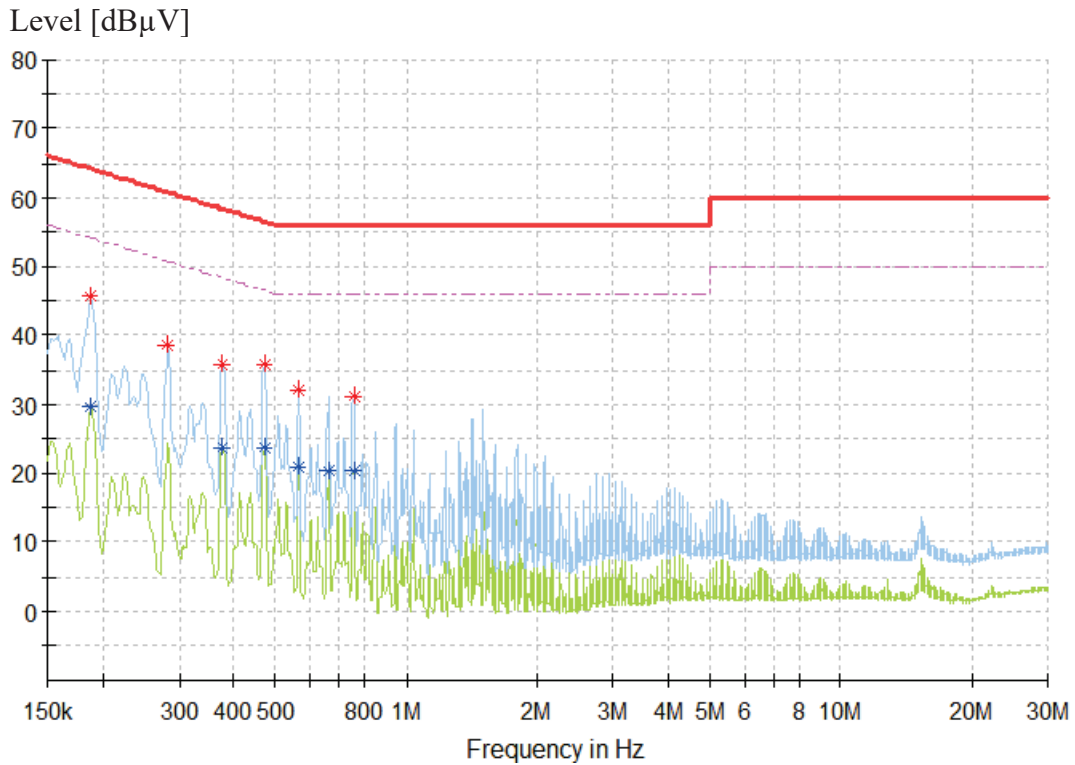
Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line L, mode 2



Final measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.152250	42.19	---	65.88	23.69	L1	10.3
0.188250	44.26	---	64.11	19.85	L1	10.3
0.188250	---	27.14	54.11	26.97	L1	10.3
0.282750	37.66	---	60.74	23.08	L1	10.3
0.377250	35.30	---	58.34	23.04	L1	10.3
0.379500	---	22.44	48.29	25.85	L1	10.3
0.471750	35.29	---	56.48	21.19	L1	10.3
0.471750	---	22.33	46.48	24.16	L1	10.3
0.566250	---	19.35	46.00	26.65	L1	10.3
0.566250	31.50	---	56.00	24.50	L1	10.3
0.660750	---	18.12	46.00	27.88	L1	10.3
0.755250	---	18.50	46.00	27.50	L1	10.4

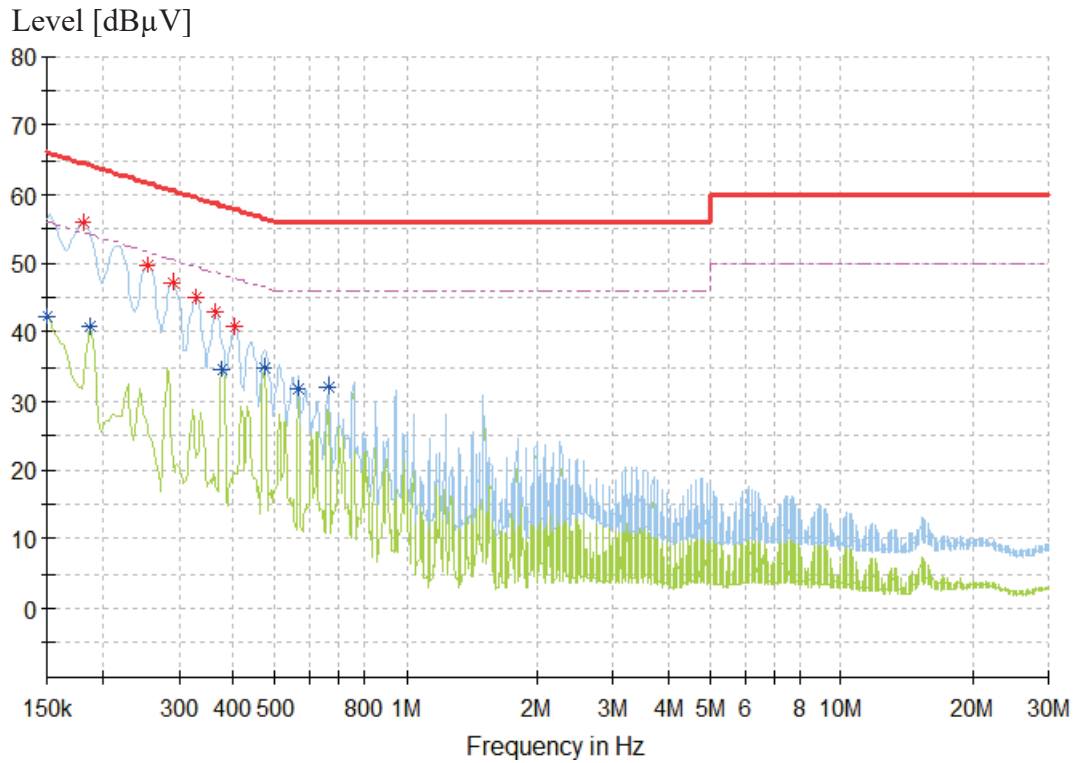
Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line N, mode 2



Final measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.188250	45.53	---	64.11	18.59	N	10.7
0.188250	---	29.74	54.11	24.37	N	10.7
0.282750	38.42	---	60.74	22.31	N	10.6
0.377250	35.91	---	58.34	22.43	N	10.4
0.377250	---	23.84	48.34	24.50	N	10.4
0.471750	35.76	---	56.48	20.72	N	10.2
0.471750	---	23.85	46.48	22.63	N	10.2
0.566250	32.17	---	56.00	23.83	N	10.3
0.566250	---	20.98	46.00	25.02	N	10.3
0.660750	---	20.32	46.00	25.68	N	10.4
0.755250	31.11	---	56.00	24.89	N	10.4
0.755250	---	20.42	46.00	25.58	N	10.4

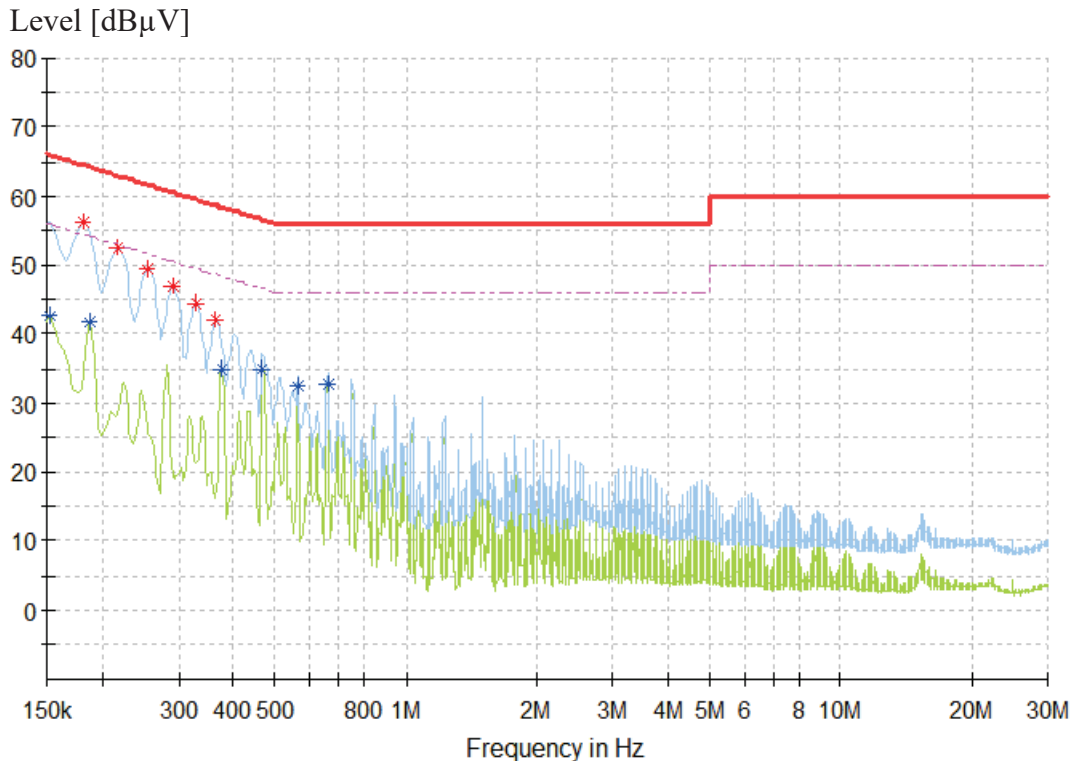
Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line L, mode 3



Final measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	42.28	56.00	13.72	L1	10.3
0.181500	55.93	---	64.42	8.49	L1	10.3
0.188250	---	40.64	54.11	13.48	L1	10.3
0.255750	49.67	---	61.57	11.90	L1	10.3
0.291750	47.31	---	60.47	13.17	L1	10.3
0.330000	44.95	---	59.45	14.50	L1	10.3
0.366000	42.86	---	58.59	15.74	L1	10.3
0.377250	---	34.48	48.34	13.86	L1	10.3
0.402000	40.68	---	57.81	17.14	L1	10.3
0.471750	---	34.81	46.48	11.67	L1	10.3
0.566250	---	31.86	46.00	14.14	L1	10.3
0.660750	---	32.19	46.00	13.81	L1	10.3

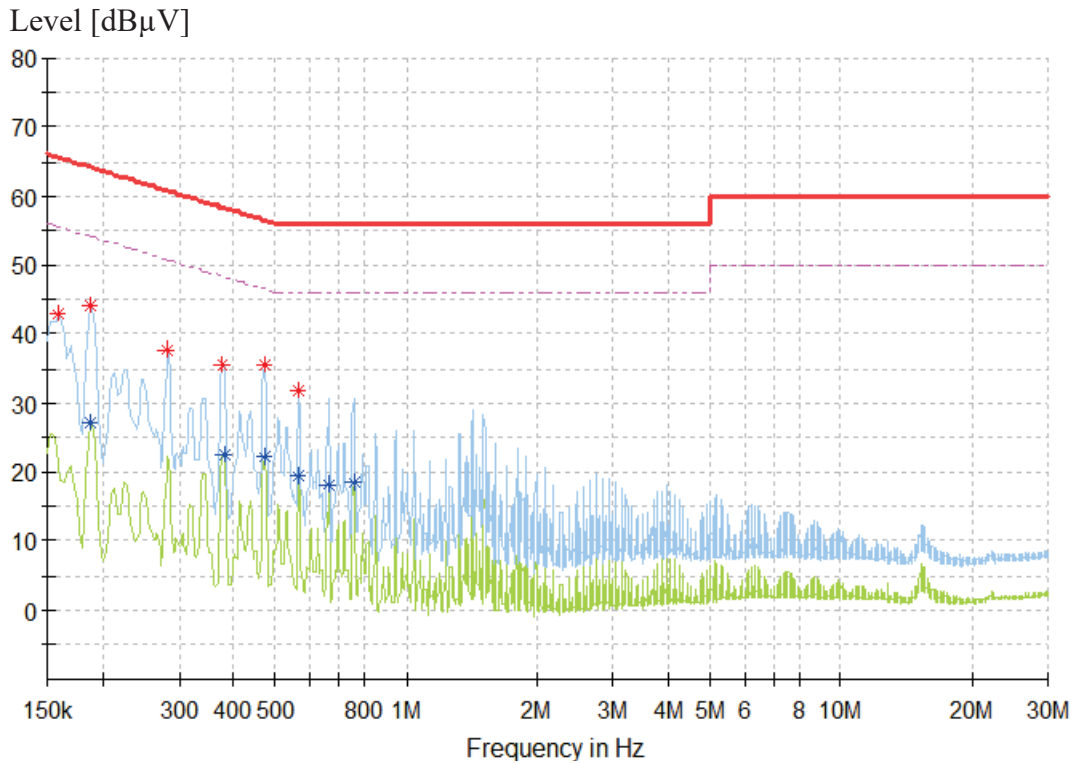
Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line N, mode 3



Final measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.152250	---	42.49	55.88	13.39	N	10.2
0.181500	56.06	---	64.42	8.36	N	10.6
0.188250	---	41.64	54.11	12.47	N	10.7
0.217500	52.35	---	62.91	10.56	N	10.7
0.255750	49.49	---	61.57	12.08	N	10.6
0.291750	46.82	---	60.47	13.66	N	10.6
0.330000	44.36	---	59.45	15.09	N	10.5
0.366000	41.99	---	58.59	16.60	N	10.4
0.377250	---	34.85	48.34	13.49	N	10.4
0.469500	---	34.90	46.52	11.62	N	10.2
0.564000	---	32.31	46.00	13.69	N	10.3
0.658500	---	32.78	46.00	13.22	N	10.4

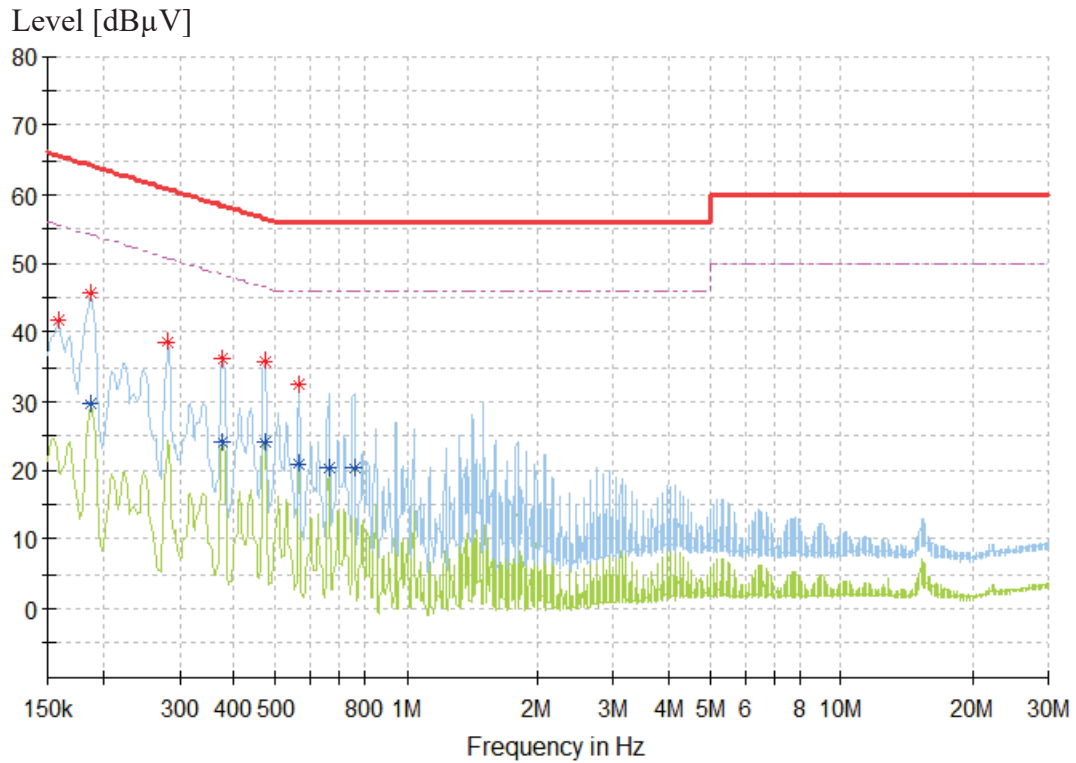
Figure 7: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line L, mode 4



Final measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.159000	42.86	---	65.52	22.66	L1	10.3
0.188250	44.27	---	64.11	19.85	L1	10.3
0.188250	---	27.03	54.11	27.09	L1	10.3
0.282750	37.65	---	60.74	23.09	L1	10.3
0.377250	35.38	---	58.34	22.96	L1	10.3
0.379500	---	22.51	48.29	25.78	L1	10.3
0.471750	35.33	---	56.48	21.16	L1	10.3
0.471750	---	22.20	46.48	24.29	L1	10.3
0.566250	---	19.27	46.00	26.73	L1	10.3
0.566250	31.73	---	56.00	24.27	L1	10.3
0.660750	---	18.04	46.00	27.96	L1	10.3
0.755250	---	18.35	46.00	27.65	L1	10.4

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



Final measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.159000	41.55	---	65.52	23.96	N	10.3
0.188250	45.58	---	64.11	18.53	N	10.7
0.188250	---	29.70	54.11	24.41	N	10.7
0.282750	38.55	---	60.74	22.18	N	10.6
0.377250	36.04	---	58.34	22.30	N	10.4
0.377250	---	23.93	48.34	24.41	N	10.4
0.471750	35.85	---	56.48	20.64	N	10.2
0.471750	---	23.90	46.48	22.58	N	10.2
0.566250	---	21.00	46.00	25.00	N	10.3
0.566250	32.26	---	56.00	23.74	N	10.3
0.660750	---	20.27	46.00	25.73	N	10.4
0.755250	---	20.31	46.00	25.69	N	10.4

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Emission (30 – 1000 MHz)

Result:	Passed
Date of testing	: 2025-04-03
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Frequency range	: 30 – 1000 MHz
Limits	: Quasi-peak limits (3 m distance): (see Note) 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
Bandwidth of EMI receiver for final measurement	: 120 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Semi-anechoic chamber
Supply voltage	: AC 120 V, 60 Hz
Operational mode	: Mode 1, 2, 3, 4
Ambient condition	: Temperature: 21.8 °C; Relative humidity: 43.6 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 14.97 dB at 720.155000 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 a 0.8 m high wooden table above the reference ground plane. The wooden table 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. Before final measurement, a survey was made to determine in which state the maximum disturbance was obtained. The final measurement was made in the state the maximum disturbance was obtained. 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).

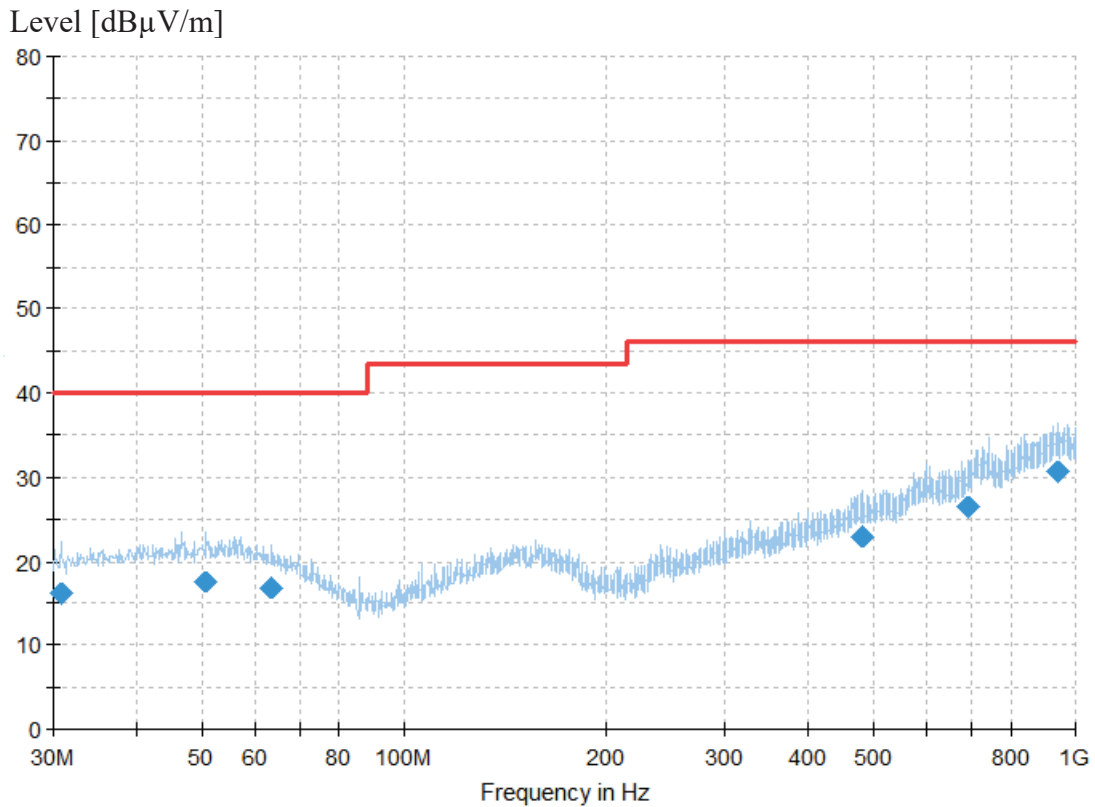
Margin: Limit (dB μ V/m) - QuasiPeak (dB μ V/m).

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Note: The class B limits of ICES-005:2018 is stricter than those FCC 47 CFR Part 15, Subpart B:2023 and ICES-003:2020 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

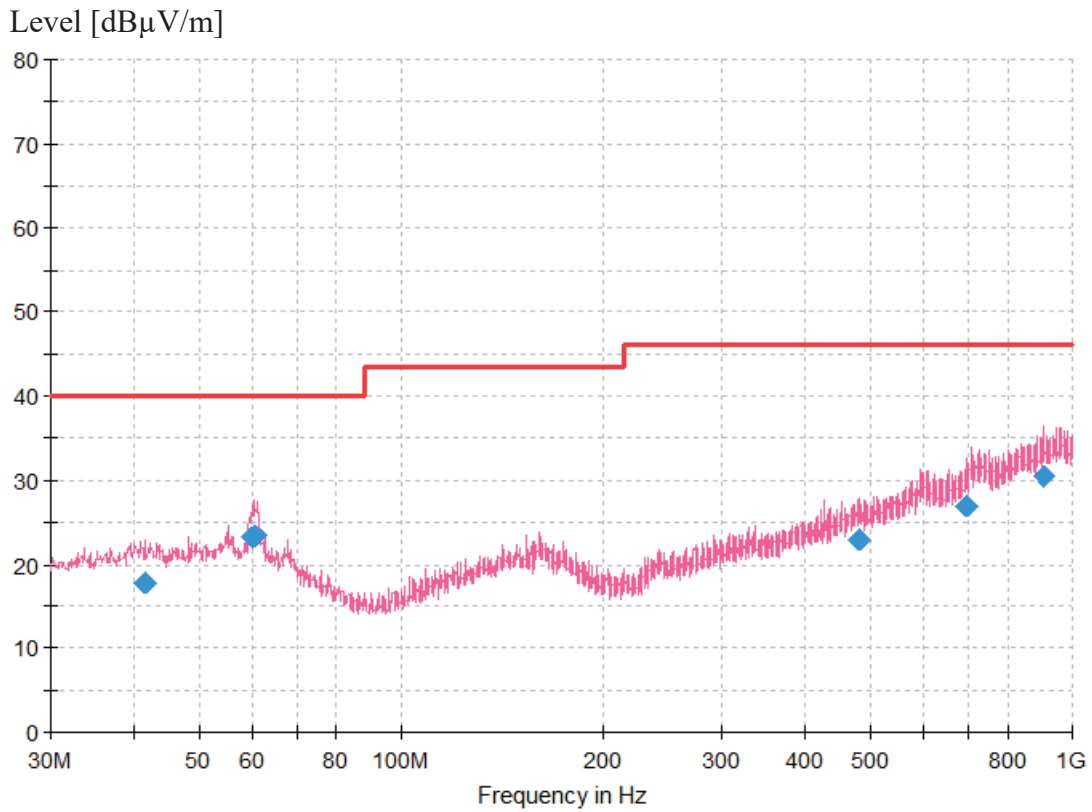
Figure 9: Spectral diagrams and measurement results, 30 – 1000 MHz, Horizontal polarization, mode 1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.848750	16.14	40.00	23.86	1000.0	120.000	100.0	H	178.0	12.9
50.733750	17.58	40.00	22.42	1000.0	120.000	200.0	H	78.0	14.3
63.343750	16.76	40.00	23.24	1000.0	120.000	200.0	H	158.0	13.3
481.777500	23.01	46.00	22.99	1000.0	120.000	200.0	H	52.0	19.7
691.297500	26.49	46.00	19.51	1000.0	120.000	200.0	H	-180.0	22.9
939.496250	30.56	46.00	15.44	1000.0	120.000	200.0	H	-180.0	26.3

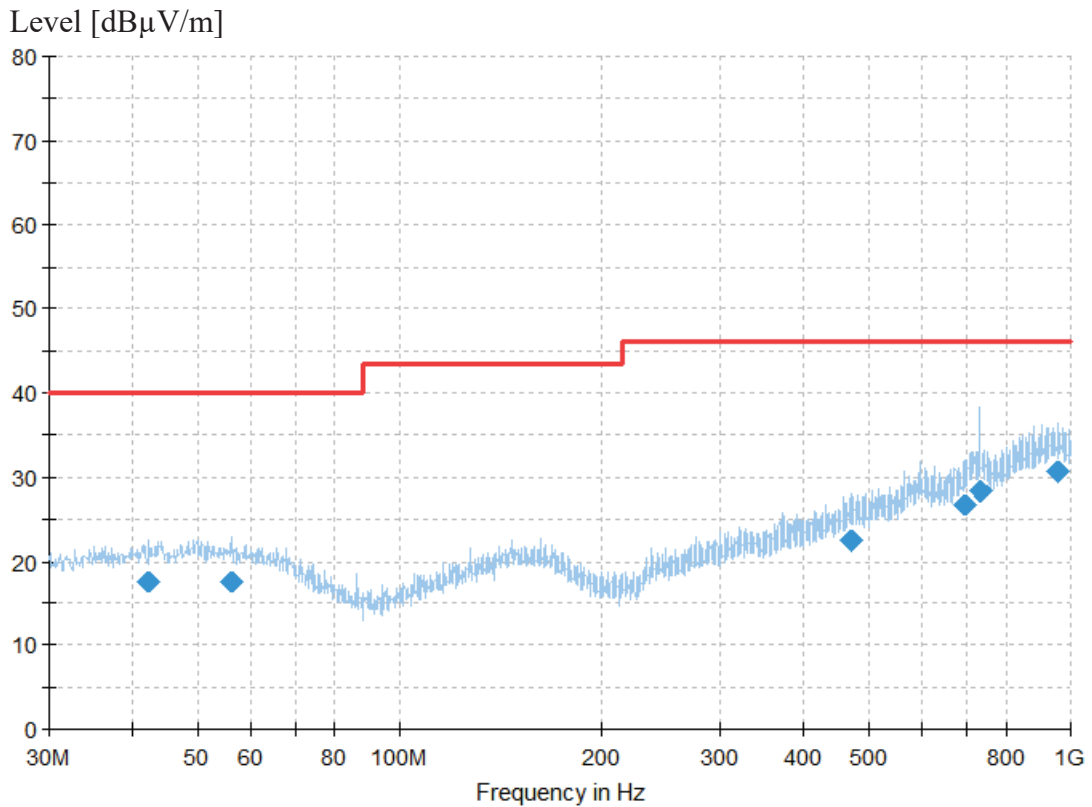
Figure 10: Spectral diagrams and measurement results, 30 – 1000 MHz, Vertical polarization, mode 1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.518750	17.85	40.00	22.15	1000.0	120.000	200.0	V	62.0	14.1
60.191250	23.26	40.00	16.74	1000.0	120.000	100.0	V	-172.0	13.6
60.555000	23.34	40.00	16.66	1000.0	120.000	100.0	V	165.0	13.6
480.080000	23.02	46.00	22.98	1000.0	120.000	200.0	V	180.0	19.6
697.238750	26.88	46.00	19.13	1000.0	120.000	200.0	V	125.0	23.2
907.971250	30.38	46.00	15.62	1000.0	120.000	200.0	V	35.0	25.9

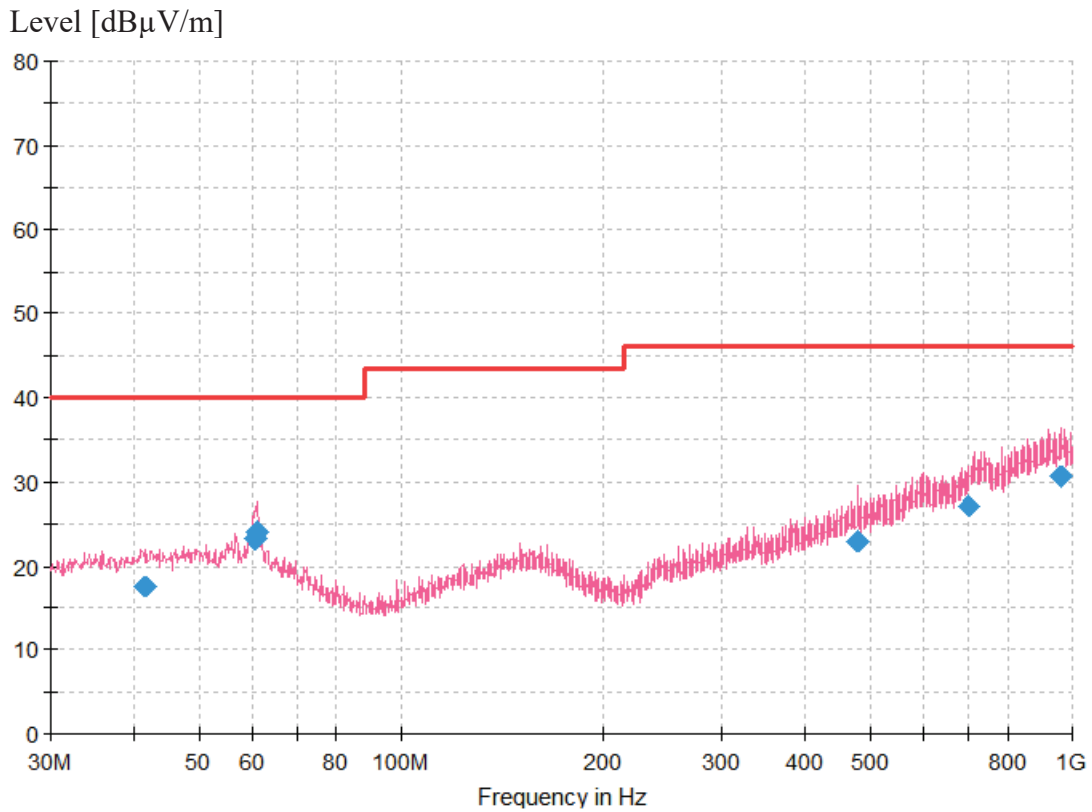
Figure 11: Spectral diagrams and measurement results, 30 – 1000 MHz, Horizontal polarization, mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.246250	17.54	40.00	22.46	1000.0	120.000	200.0	H	58.0	14.2
56.068750	17.60	40.00	22.40	1000.0	120.000	100.0	H	146.0	14.1
471.107500	22.45	46.00	23.55	1000.0	120.000	100.0	H	-153.0	19.2
694.571250	26.76	46.00	19.24	1000.0	120.000	100.0	H	119.0	23.1
732.037500	28.19	46.00	17.81	1000.0	120.000	100.0	H	-153.0	24.7
958.532500	30.61	46.00	15.39	1000.0	120.000	200.0	H	-13.0	26.4

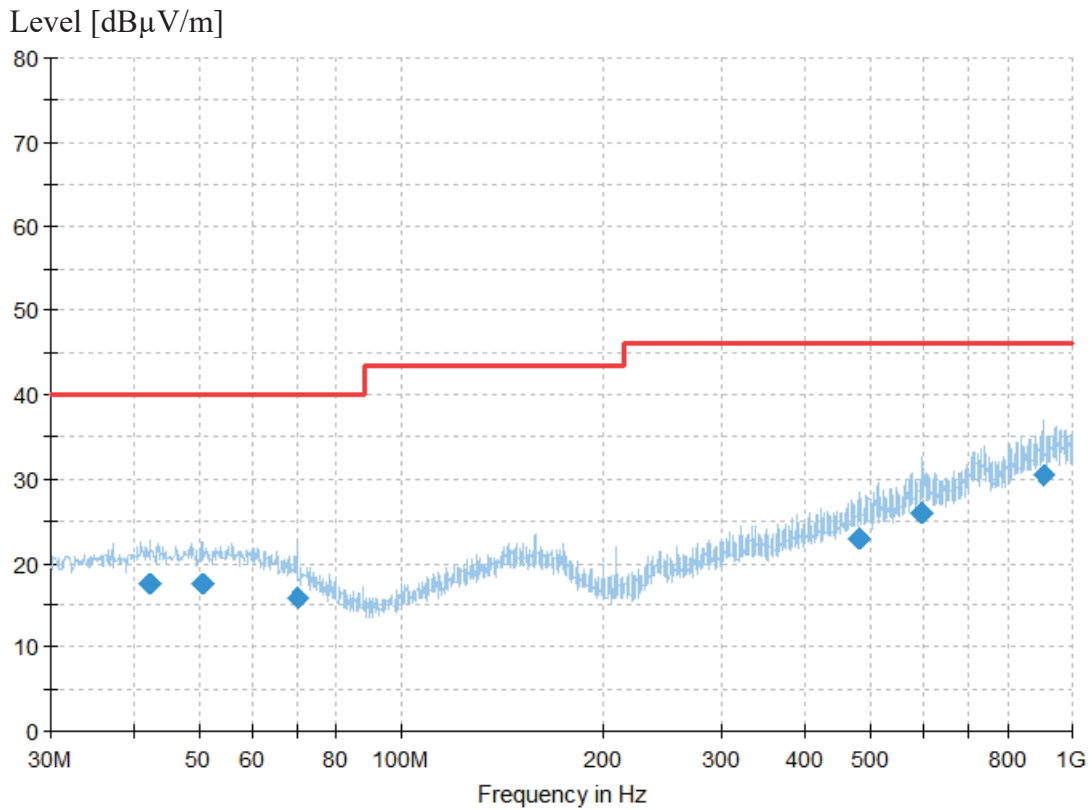
Figure 12: Spectral diagrams and measurement results, 30 – 1000 MHz, Vertical polarization, mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.640000	17.63	40.00	22.37	1000.0	120.000	100.0	V	117.0	14.1
60.433750	23.17	40.00	16.83	1000.0	120.000	100.0	V	-172.0	13.6
61.040000	24.12	40.00	15.88	1000.0	120.000	100.0	V	180.0	13.5
477.776250	22.84	46.00	23.16	1000.0	120.000	200.0	V	-84.0	19.4
702.088750	27.06	46.00	18.94	1000.0	120.000	200.0	V	-129.0	23.6
966.535000	30.74	46.00	15.26	1000.0	120.000	100.0	V	72.0	26.5

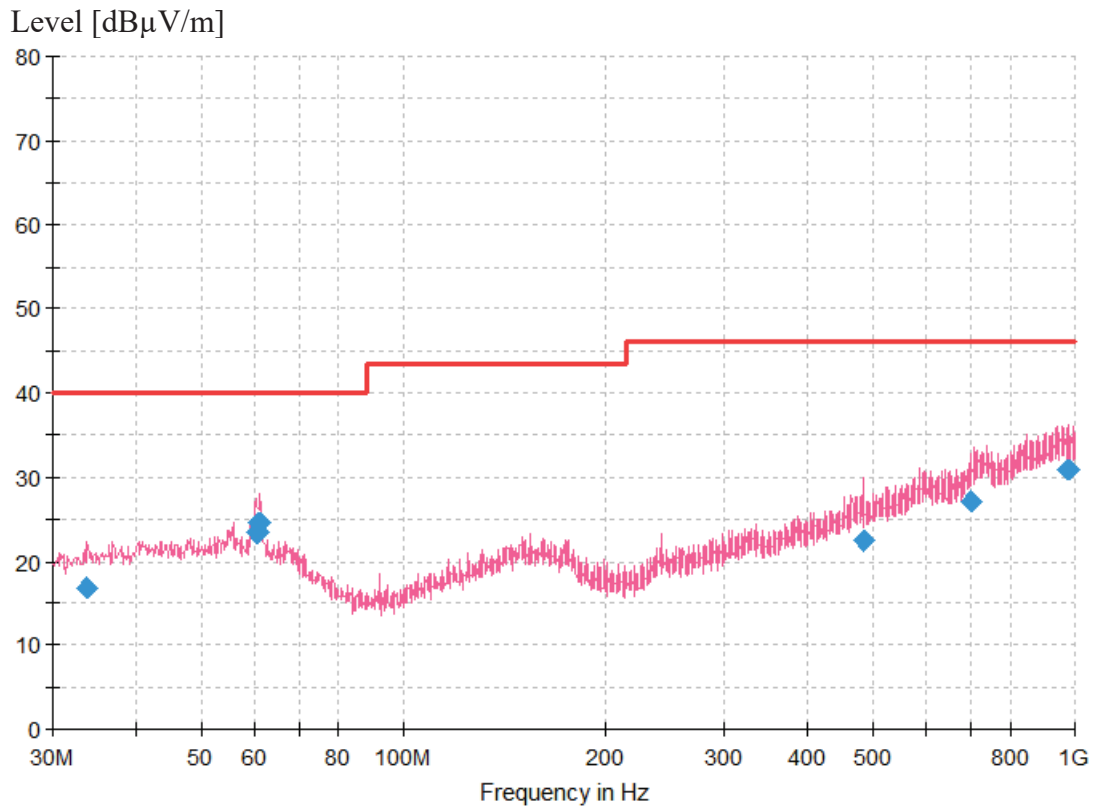
Figure 13: Spectral diagrams and measurement results, 30 – 1000 MHz, Horizontal polarization, mode 3



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.125000	17.50	40.00	22.50	1000.0	120.000	200.0	H	-162.0	14.1
50.612500	17.61	40.00	22.39	1000.0	120.000	100.0	H	-100.0	14.3
69.891250	15.83	40.00	24.17	1000.0	120.000	200.0	H	-25.0	12.4
482.626250	22.86	46.00	23.14	1000.0	120.000	100.0	H	18.0	19.6
597.450000	25.86	46.00	20.14	1000.0	120.000	200.0	H	-162.0	22.0
910.638750	30.33	46.00	15.67	1000.0	120.000	100.0	H	-127.0	25.9

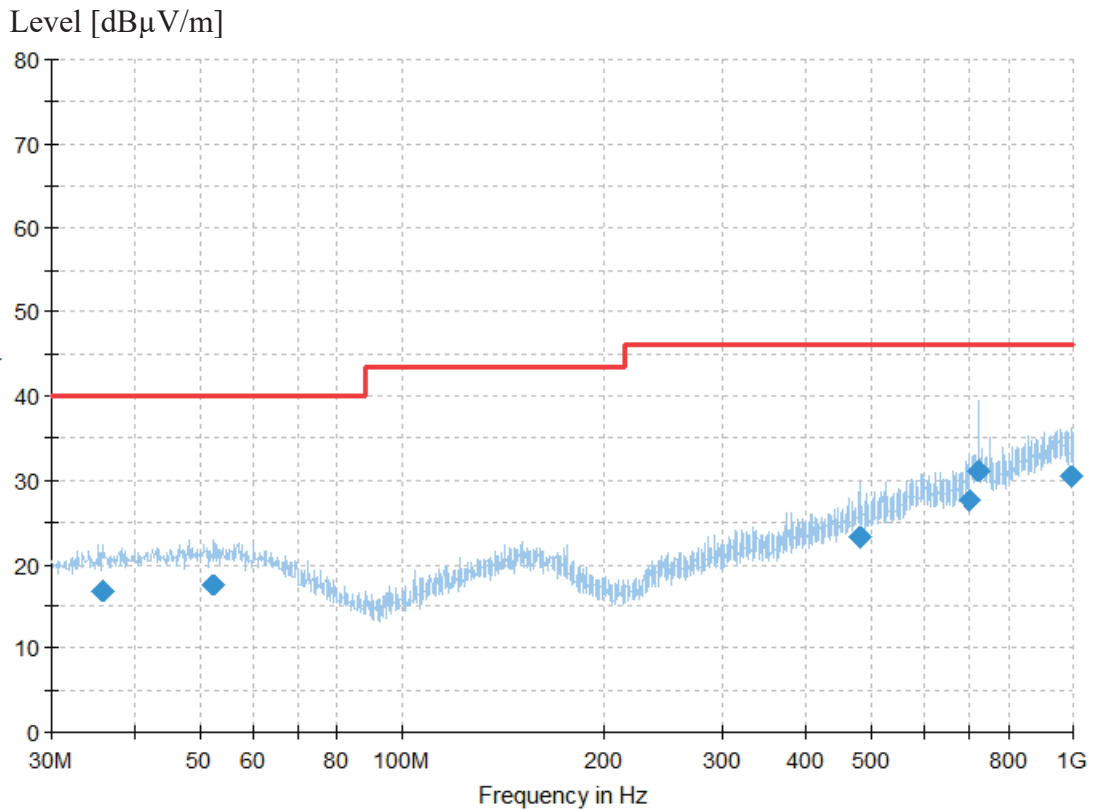
Figure 14: Spectral diagrams and measurement results, 30 – 1000 MHz, Vertical polarization, mode 3



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.880000	16.76	40.00	23.24	1000.0	120.000	200.0	V	-110.0	13.3
60.433750	23.45	40.00	16.55	1000.0	120.000	100.0	V	-151.0	13.6
61.040000	24.56	40.00	15.44	1000.0	120.000	100.0	V	-142.0	13.5
486.021250	22.43	46.00	23.57	1000.0	120.000	200.0	V	123.0	19.2
702.816250	27.23	46.00	18.77	1000.0	120.000	200.0	V	-1.0	23.7
974.901250	30.92	46.00	15.08	1000.0	120.000	200.0	V	-155.0	26.8

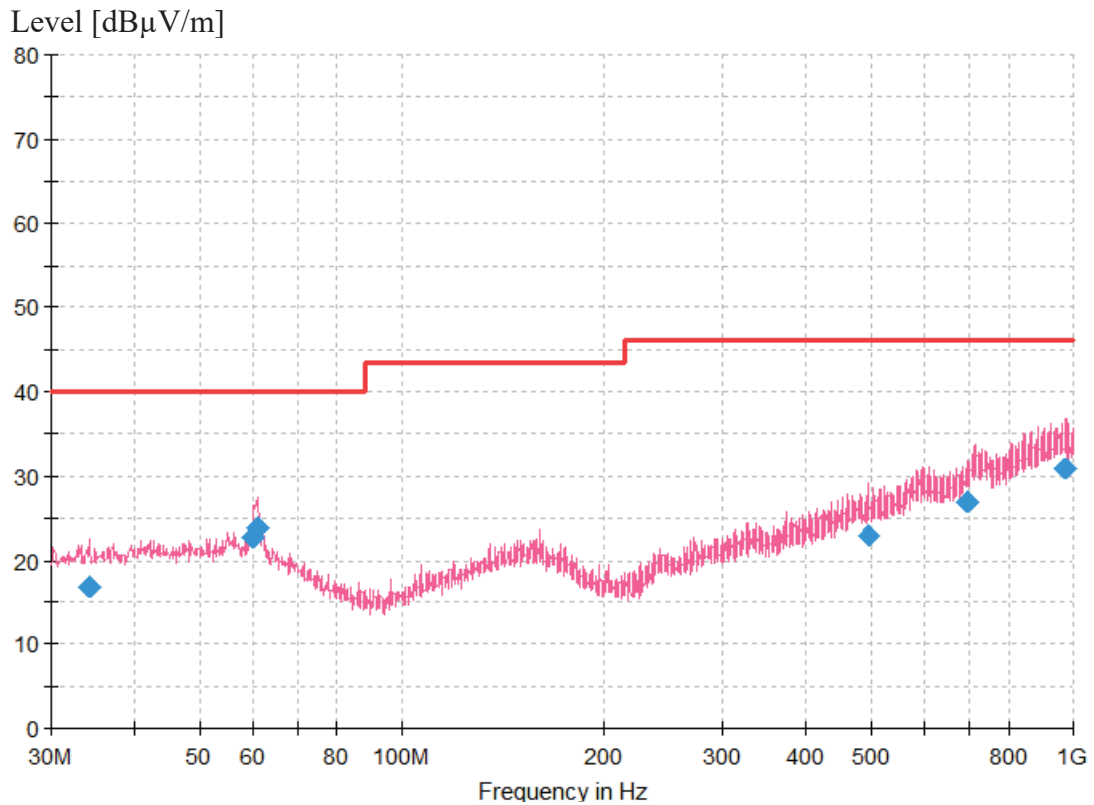
Figure 15: Spectral diagrams and measurement results, 30 – 1000 MHz, Horizontal polarization, mode 4



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.941250	16.92	40.00	23.08	1000.0	120.000	100.0	H	2.0	13.5
52.310000	17.45	40.00	22.55	1000.0	120.000	100.0	H	38.0	14.3
481.898750	23.09	46.00	22.91	1000.0	120.000	100.0	H	29.0	19.7
703.907500	27.65	46.00	18.35	1000.0	120.000	100.0	H	138.0	23.9
720.155000	31.03	46.00	14.97	1000.0	120.000	200.0	H	-146.0	24.8
992.967500	30.43	46.00	15.57	1000.0	120.000	100.0	H	180.0	26.2

Figure 16: Spectral diagrams and measurement results, 30 – 1000 MHz, Vertical polarization, mode 4



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.243750	16.82	40.00	23.18	1000.0	120.000	200.0	V	-180.0	13.3
60.191250	22.76	40.00	17.24	1000.0	120.000	100.0	V	-100.0	13.6
60.797500	23.90	40.00	16.10	1000.0	120.000	100.0	V	-63.0	13.6
494.993750	22.83	46.00	23.17	1000.0	120.000	100.0	V	-163.0	19.5
697.360000	26.80	46.00	19.20	1000.0	120.000	200.0	V	-56.0	23.2
972.961250	30.97	46.00	15.03	1000.0	120.000	200.0	V	177.0	26.8

5.2.2 Radiated Emission (1-18 GHz)

Result:
Passed

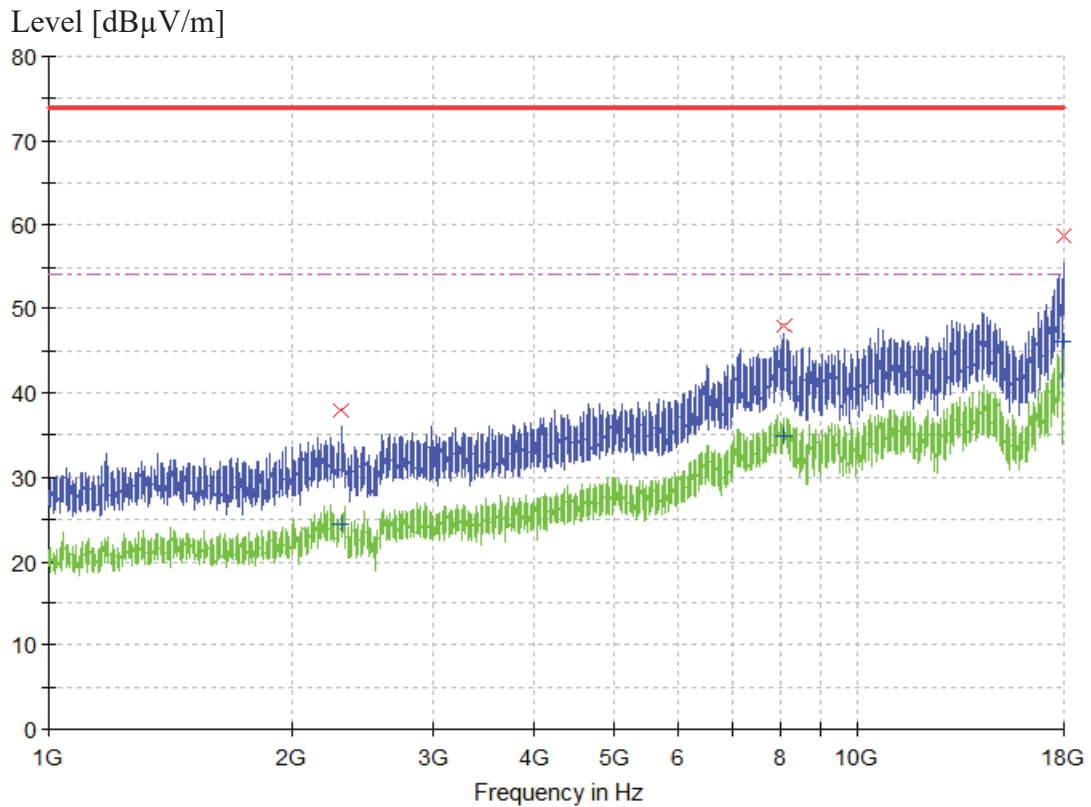
Date of testing	: 2025-04-03
Port	: Enclosure
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Limit	: Peak limits (3 m distance): 1 – 18 GHz, 74 dB μ V/m Average limits (3 m distance): 1 – 18 GHz, 54 dB μ V/m
Frequency range	: 1 – 18 GHz (see Note)
Kind of test site	: Absorber-lined semi-anechoic chamber
Test distance	: 3 m
Test voltage	: AC 120 V, 60 Hz
Operational mode	: Mode 1, 2, 3, 4
Earthing	: No earthing
Ambient condition	: Temperature: 21.8 °C; Relative humidity: 43.6 %
Expanded measurement uncertainty ($k=2$)	: 5.17 dB (1 GHz~6 GHz) 5.12 dB (6 GHz~18 GHz) The minimum margin to the limit is 7.7 dB at 17961.500000, 17968.000000 & 17969.500000 MHz. The margin is higher than the expanded measurement uncertainty.

The radiated disturbance test was carried out in an absorber-lined semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. The site voltage standing wave ratio (S_{VSWR}) of the absorber-lined 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 supporting table. And the supporting table was rotated 360° around, the receiving antenna was kept aiming at the EUT and its height 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. The final test was performed with peak detector and average detector at those critical frequencies during the preview test. In the following figure, “ $\times$ ” and “ $+$ ” means measurement results with peak detector and average detector.

Note: The highest frequency in the EUT is 2480 MHz. According to FCC 47 CFR Part 15, Subpart B:2023 §15.33 (b) (1) and Table 3 of ICES-003:2020, the upper frequency for radiated emission measurement is 18 GHz.

Figure 17: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Horizontal polarization, mode 1



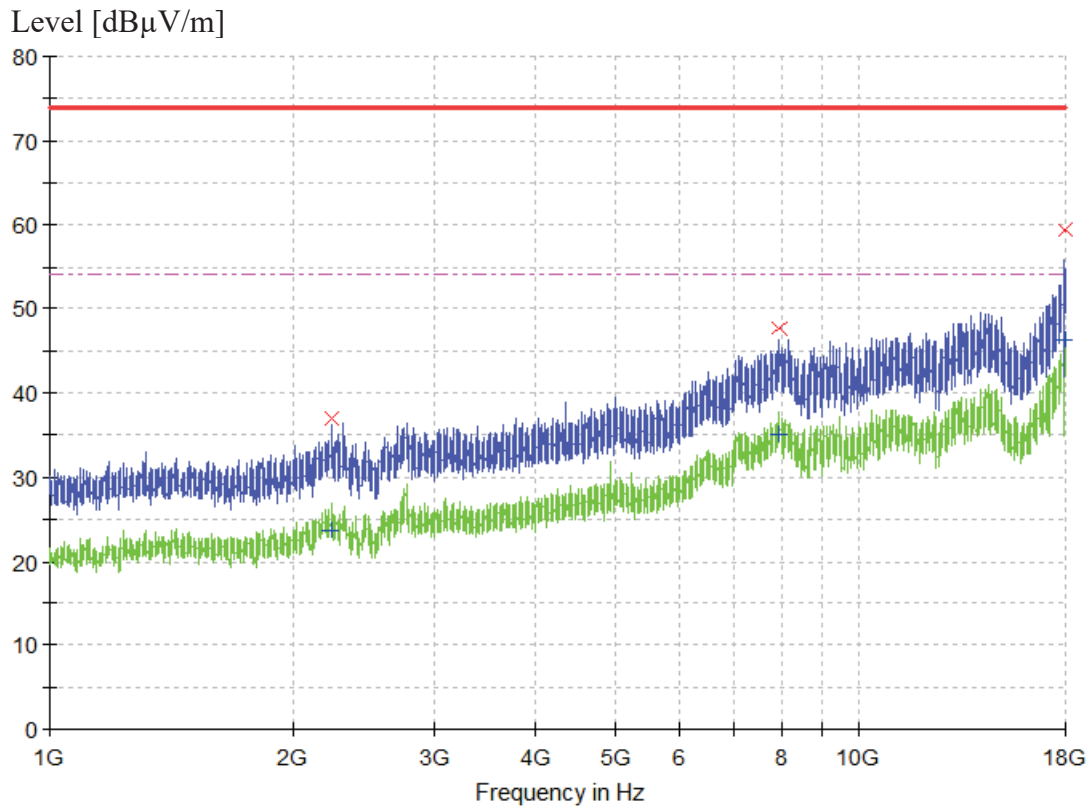
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2305.500000	37.8	1000.0	1000.000	100.0	H	-80.0	-15.8	36.2	74.0
8111.000000	48.0	1000.0	1000.000	200.0	H	0.0	-4.1	26.0	74.0
17977.000000	58.8	1000.0	1000.000	135.0	H	90.0	12.0	15.2	74.0

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2305.500000	24.3	1000.0	1000.000	100.0	H	-80.0	-15.8	29.7	54.0
8111.000000	34.8	1000.0	1000.000	200.0	H	0.0	-4.1	19.2	54.0
17977.000000	46.1	1000.0	1000.000	135.0	H	90.0	12.0	7.9	54.0

Figure 18: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Vertical polarization, mode 1



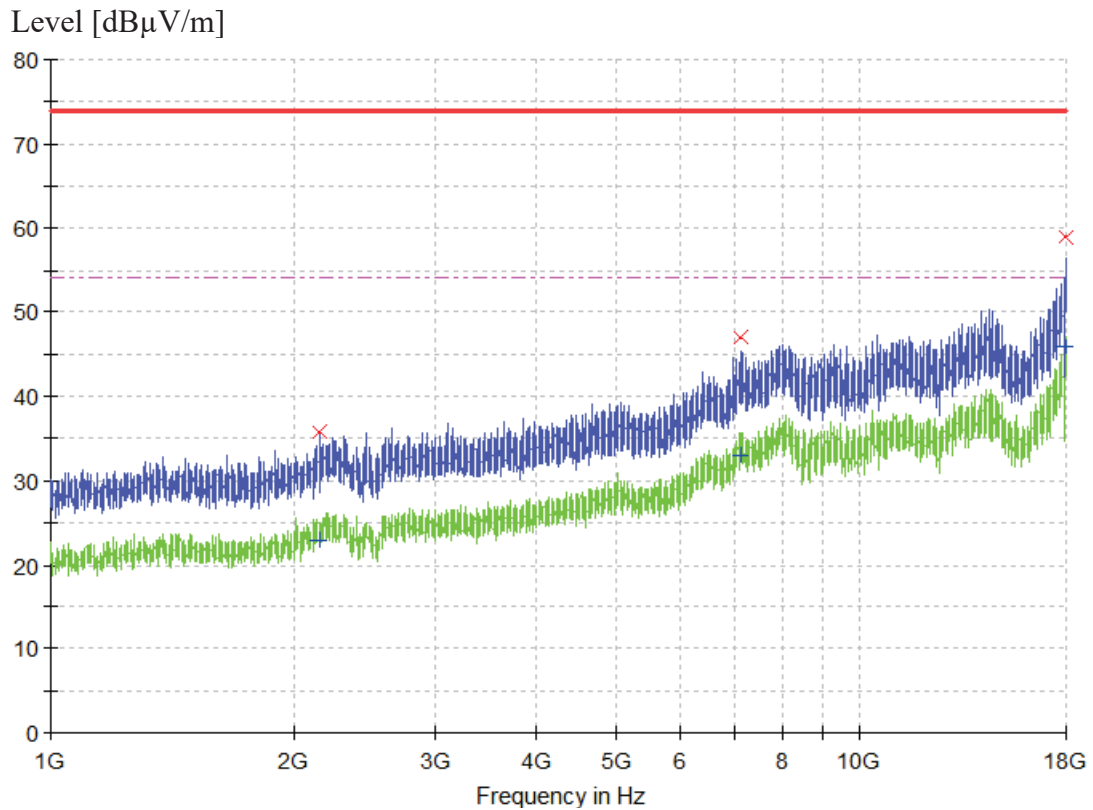
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2230.000000	36.9	1000.0	1000.000	120.0	V	-45.0	-15.6	37.1	74.0
7984.000000	47.8	1000.0	1000.000	100.0	V	30.0	-3.6	26.2	74.0
17961.500000	59.4	1000.0	1000.000	150.0	V	-120.0	11.7	14.6	74.0

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2230.000000	23.7	1000.0	1000.000	120.0	V	-45.0	-15.6	30.3	54.0
7984.000000	35.1	1000.0	1000.000	100.0	V	30.0	-3.6	18.9	54.0
17961.500000	46.3	1000.0	1000.000	150.0	V	-120.0	11.7	7.7	54.0

Figure 19: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Horizontal polarization, mode 2



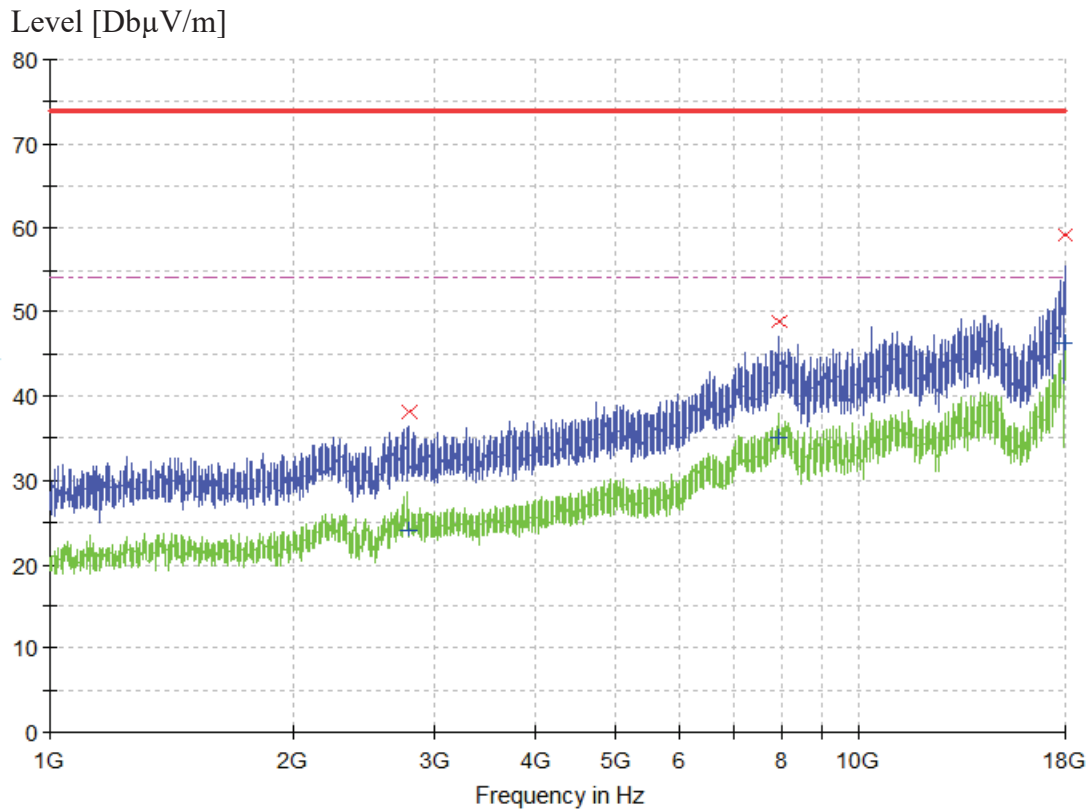
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2149.000000	35.7	1000.0	1000.000	100.0	H	-45.0	-16.3	38.3	74.0
7156.000000	46.9	1000.0	1000.000	150.0	H	105.0	-5.6	27.1	74.0
17986.500000	58.9	1000.0	1000.000	130.0	H	-60.0	12.1	15.1	74.0

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2149.000000	23.0	1000.0	1000.000	100.0	H	-45.0	-16.3	31.0	54.0
7156.000000	33.0	1000.0	1000.000	150.0	H	105.0	-5.6	21.0	54.0
17986.500000	45.9	1000.0	1000.000	130.0	H	-60.0	12.1	8.1	54.0

Figure 20: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Vertical polarization, mode 2



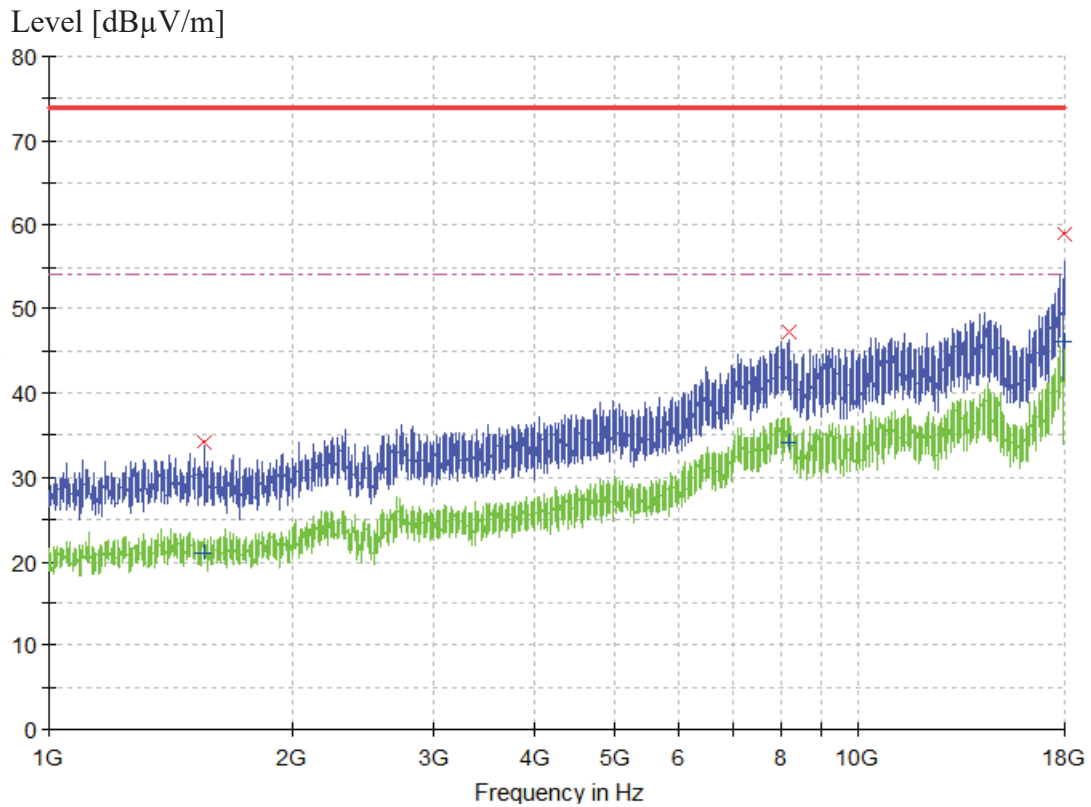
Final peak measurement result:

Frequency (MHz)	MaxPeak (DbμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (Db/m)	Margin – PK+ (Db)	Limit – PK+ (DbμV/m)
2774.000000	38.2	1000.0	1000.000	135.0	V	90.0	-15.2	35.8	74.0
7977.500000	48.9	1000.0	1000.000	100.0	V	0.0	-3.6	25.1	74.0
17965.500000	59.2	1000.0	1000.000	200.0	V	-180.0	11.8	14.8	74.0

Final average measurement result:

Frequency (MHz)	Average (DbμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (Db/m)	Margin – AVG (Db)	Limit – AVG (DbμV/m)
2774.000000	24.2	1000.0	1000.000	135.0	V	90.0	-15.2	29.9	54.0
7977.500000	35.2	1000.0	1000.000	100.0	V	0.0	-3.6	18.8	54.0
17965.500000	46.2	1000.0	1000.000	200.0	V	-180.0	11.8	7.8	54.0

Figure 21: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Horizontal polarization, mode 3



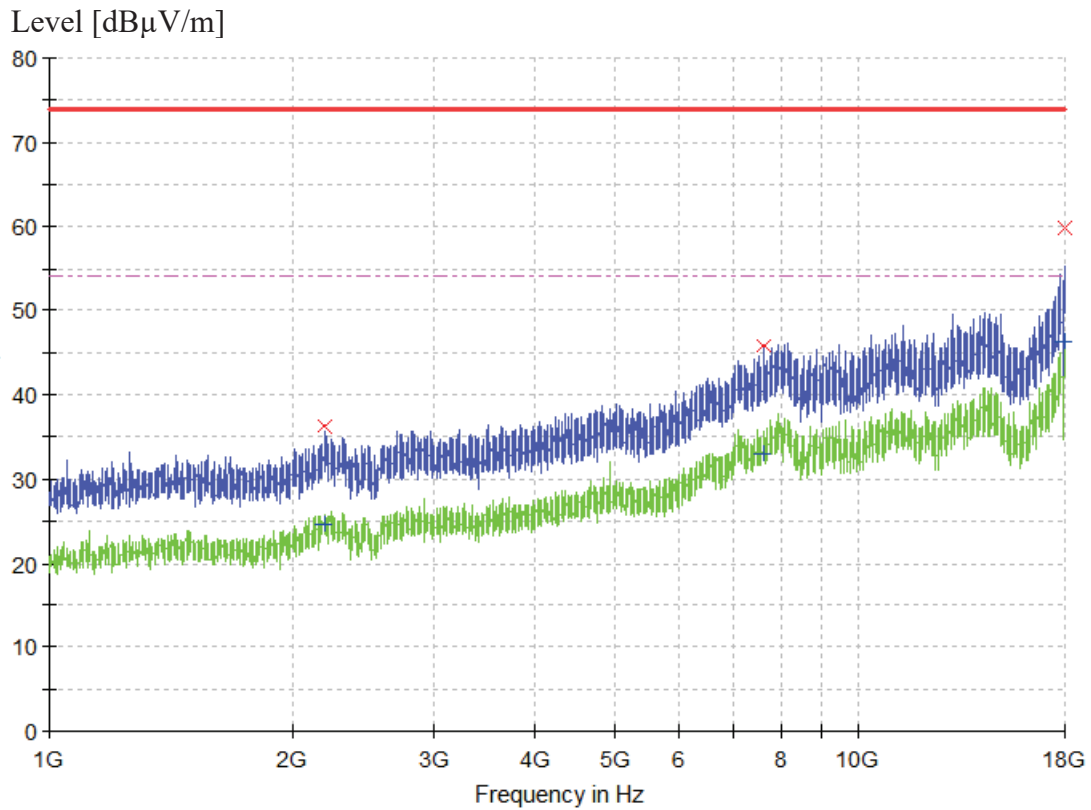
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1558.000000	34.1	1000.0	1000.000	100.0	H	30.0	-18.9	39.9	74.0
8211.000000	47.3	1000.0	1000.000	150.0	H	-90.0	-4.8	26.7	74.0
17967.000000	59.1	1000.0	1000.000	200.0	H	105.0	11.8	14.9	74.0

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1558.000000	21.1	1000.0	1000.000	100.0	H	30.0	-18.9	32.9	54.0
8211.000000	34.1	1000.0	1000.000	150.0	H	-90.0	-4.8	20.0	54.0
17967.000000	46.1	1000.0	1000.000	200.0	H	105.0	11.8	7.9	54.0

Figure 22: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Vertical polarization, mode 3



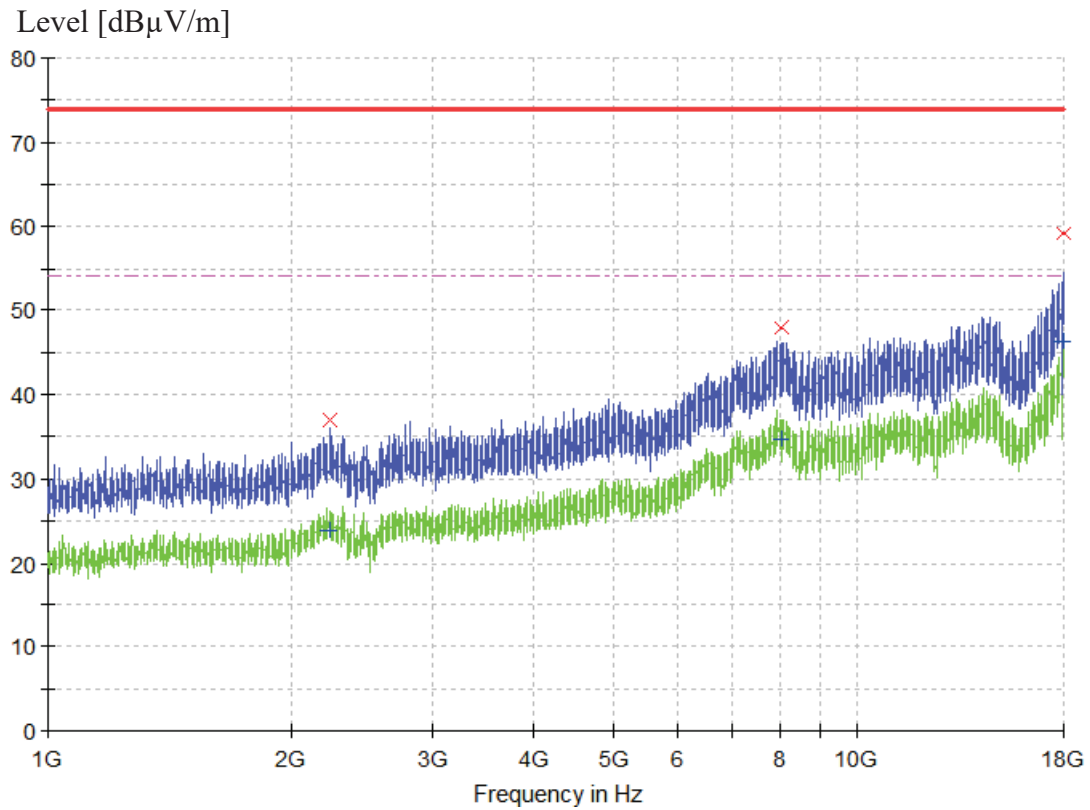
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2184.000000	36.2	1000.0	1000.000	100.0	V	-45.0	-15.9	37.8	74.0
7621.000000	45.9	1000.0	1000.000	135.0	V	120.0	-5.9	28.1	74.0
17968.000000	59.9	1000.0	1000.000	135.0	V	90.0	11.8	14.1	74.0

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2184.000000	24.5	1000.0	1000.000	100.0	V	-45.0	-15.9	29.5	54.0
7621.000000	32.9	1000.0	1000.000	135.0	V	120.0	-5.9	21.1	54.0
17968.000000	46.3	1000.0	1000.000	135.0	V	90.0	11.8	7.7	54.0

Figure 23: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Horizontal polarization, mode 4



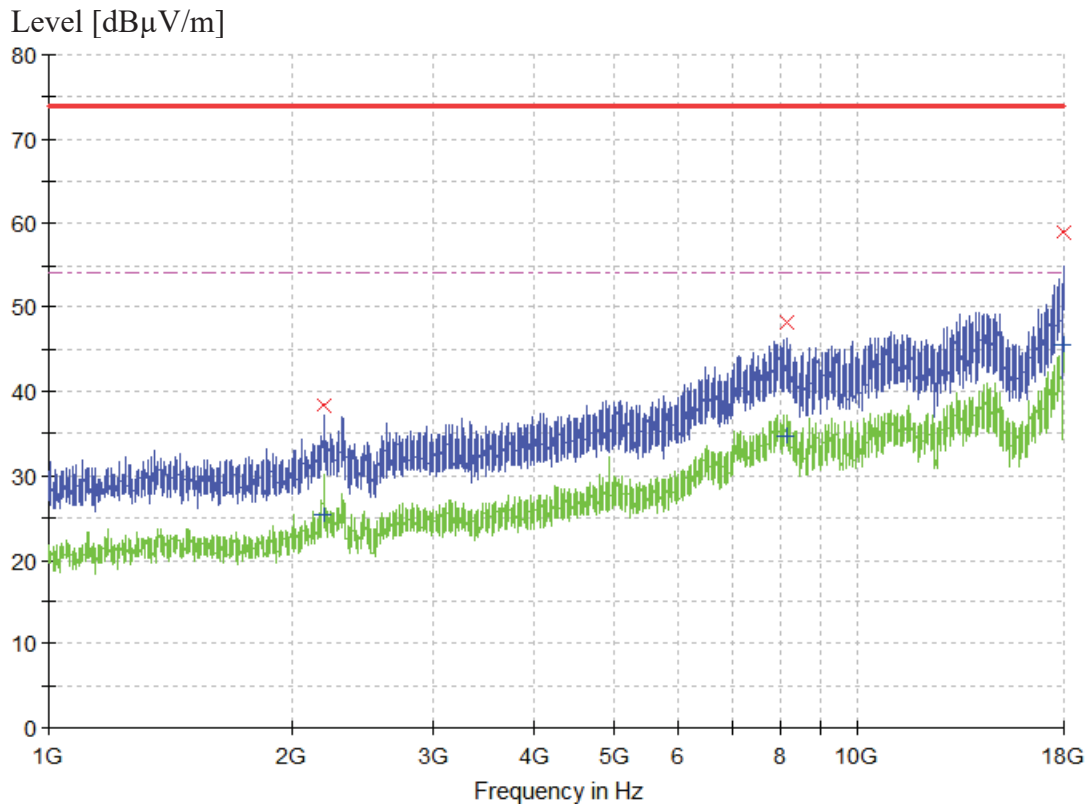
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2230.000000	36.9	1000.0	1000.000	135.0	H	180.0	-15.6	37.1	74.0
8052.500000	47.9	1000.0	1000.000	100.0	H	-100.0	-3.7	26.1	74.0
17969.500000	59.2	1000.0	1000.000	200.0	H	90.0	11.8	14.9	74.0

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2230.000000	23.9	1000.0	1000.000	135.0	H	180.0	-15.6	30.1	54.0
8052.500000	34.7	1000.0	1000.000	100.0	H	-100.0	-3.7	19.3	54.0
17969.500000	46.3	1000.0	1000.000	200.0	H	90.0	11.8	7.7	54.0

Figure 24: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Vertical polarization, mode 4



Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2190.000000	38.4	1000.0	1000.000	105.0	V	-150.0	-15.9	35.6	74.0
8147.000000	48.3	1000.0	1000.000	100.0	V	0.0	-4.4	25.7	74.0
17952.000000	58.9	1000.0	1000.000	200.0	V	180.0	11.5	15.1	74.0

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2190.000000	25.3	1000.0	1000.000	105.0	V	-150.0	-15.9	28.8	54.0
8147.000000	34.6	1000.0	1000.000	100.0	V	0.0	-4.4	19.4	54.0
17952.000000	45.7	1000.0	1000.000	200.0	V	180.0	11.5	8.3	54.0

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6 Photographs of the Test Set-Up

Refer to the test setup file.

7 List of Test and Measurement Instruments

Equipment no	Name	Model	Serial no	Manufacturer	Calibration 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	2024-08-03	2025-08-03
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-373	Trilog broadband antenna	VULB 9168	1771	Schwarzbeck	2024-11-23	2025-11-23
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2024-06-25	2025-06-25
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
EMC-C-175	Preamplifier	EMC051845SE	980612	EMCI Taiwan	2024-07-24	2025-07-24
EMC-C-161	Spectrum analyser	FSV40	101258	Rohde & Schwarz	2024-07-15	2025-07-15
EMC-C-019	Double ridged horn antenna	BBHA 9120 D	9120D-433	Schwarzbeck	2025-02-28	2026-02-28

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