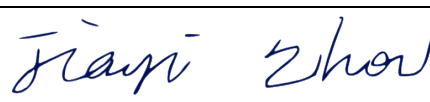


Prüfbericht-Nr.: Test report no.:	CN25OTRZ 001	Auftrags-Nr.: Order no.:	326071149	Seite 1 von 41 Page 1 of 41
Kunden-Referenz-Nr.: Client reference no.:	1288983	Auftragsdatum: Order date:	2025-01-02	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	Self-ballasted LED lamps			
Bezeichnung / Typ-Nr.: Identification / Type no.:	LED2404G6NA			
Auftrags-Inhalt: Order content:	TÜV Rheinland EMC service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15, Subpart B:2023 Class B ICES-005:2018			
Wareneingangsdatum: Date of sample receipt:	2025-03-21	Refer to the EUT photos file		
Prüfmuster-Nr.: Test sample no:	A003951539-001			
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:	2025-05-08		Ausstellungsdatum: Issue date: 2025-05-08	
Stellung / Position:	Project engineer		Authorizer	
Sonstiges / Other:	FCC ID: FHO-LED2404G6NA 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: * Legend:	P(ass) = entspricht o.g. Prüfgrundlage(n) P(ass) = passed a.m. test specification(s) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) F(ail) = failed a.m. test specification(s) N/A = nicht anwendbar N/A = not applicable N/T = nicht getestet 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.				

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Test report no.:

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Anmerkungen
Remarks

1	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. <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>
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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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Test Report No.:

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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN25OTRZ 001	2025-05-08	Initial release.

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1 Test Sites

1.1 Test Facilities

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

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

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

Refer to Clause 7 for test and measurement instruments.

2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is an ordinary self-ballasted LED lamps with wireless dimming function 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	: 6.5 W
RF IC	: SiMG301

2.3 Independent Operation Modes

The basic operation modes are: "ON" and "OFF" with dimming.
The test modes as follows:

- Mode 1: Warm lighting with the max. lighting output.
- Mode 2: Warm lighting with the min. lighting output.
- Mode 3: White lighting with the max. lighting output.
- Mode 4: White lighting with the min. 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 for wireless module.

2.7 Submitted Documents

Circuit diagram, user's manual and rating label.

3 Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

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

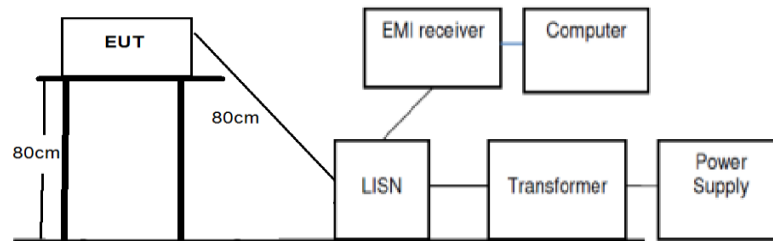
Refer to the related paragraph of this report.

The sequence of testing:

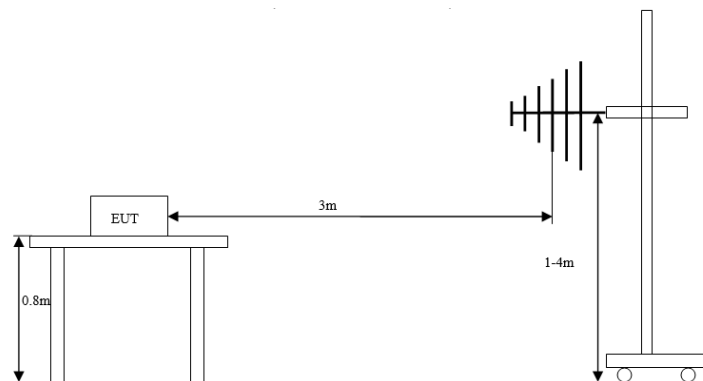
1. Conducted emission tests were performed on 2025-03-26.
2. Radiated emission tests were performed on 2025-03-28~2025-04-03.

3.2 Equipment and cable arrangement

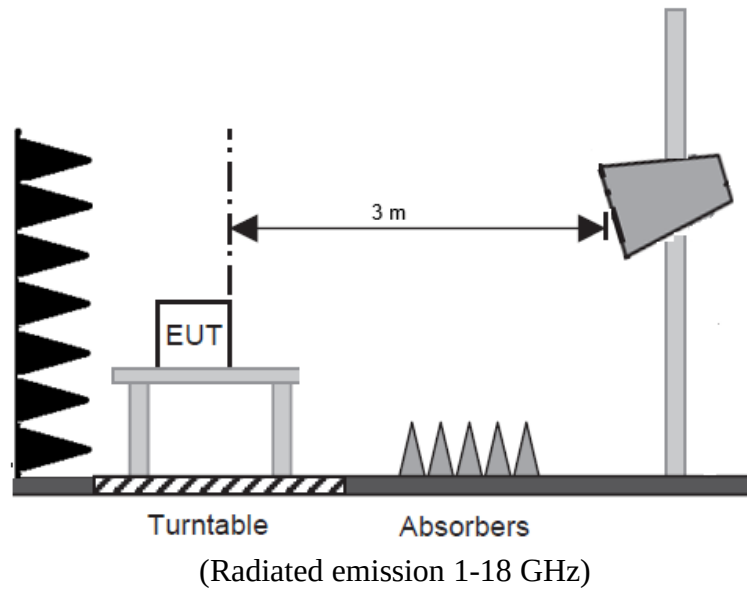
Block diagram for both conducted emission and radiated emission tests is as follows:



(Conducted emission)



(Radiated emission 30-1000 MHz)



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

3.3 Test Software

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

3.4 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

3.5 Countermeasures to achieve EMC Compliance

No other special measure is employed to achieve the requirement.

4 Conformity Decision Rule

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

5 Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted emission

Result:		Passed
Date of testing	: 2025-03-26	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ANSI C63.4-2014 and CISPR 16-2-1	
Frequency range	: 0.15 – 30 MHz	
Limits	: Quasi-peak limit: 0.15 – 0.5 MHz, 66 to 56 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 56 dB μ V; 5 – 30 MHz, 60 dB μ V Average limit: 0.15 – 0.5 MHz, 56 to 46 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dB μ V; 5 – 30 MHz, 50 dB μ V	
Bandwidth of EMI receiver for final measurement	: 9 kHz	
Measurement time for final measurement	: 1 s	
Kind of test site	: Shielded room	
Input voltage	: AC 120 V, 60 Hz	
Operational mode	: Modes 1, 2, 3, 4 defined in clause 2.3	
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 6.53 dB at 0.179250 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.

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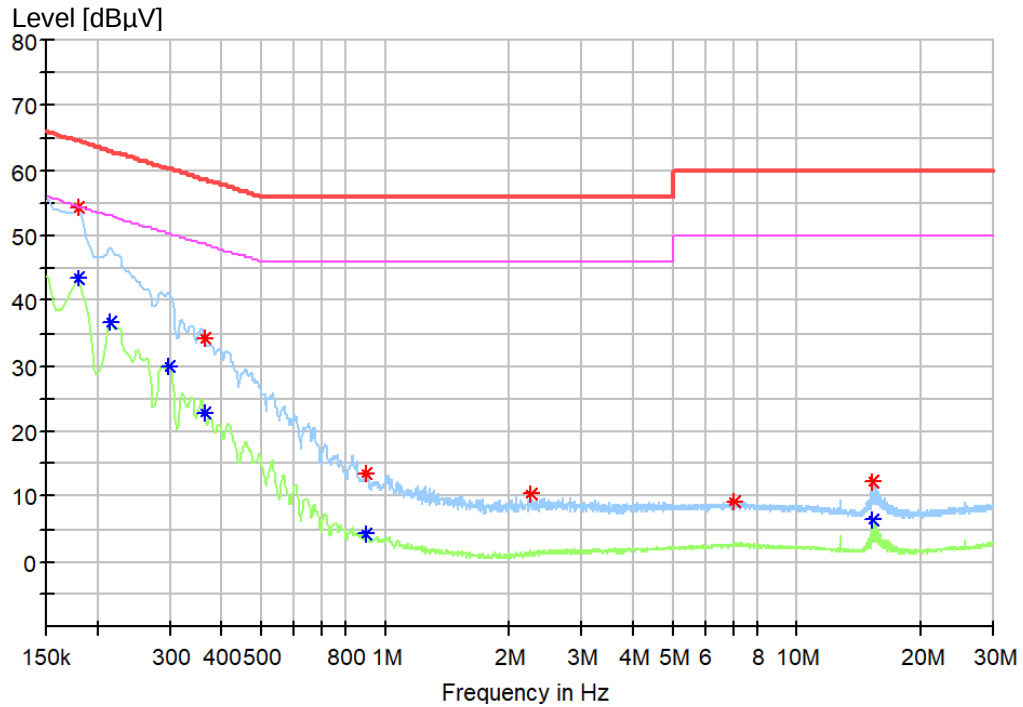
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Notes on following tables of conducted emission results and conversions:

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, L on mode 1



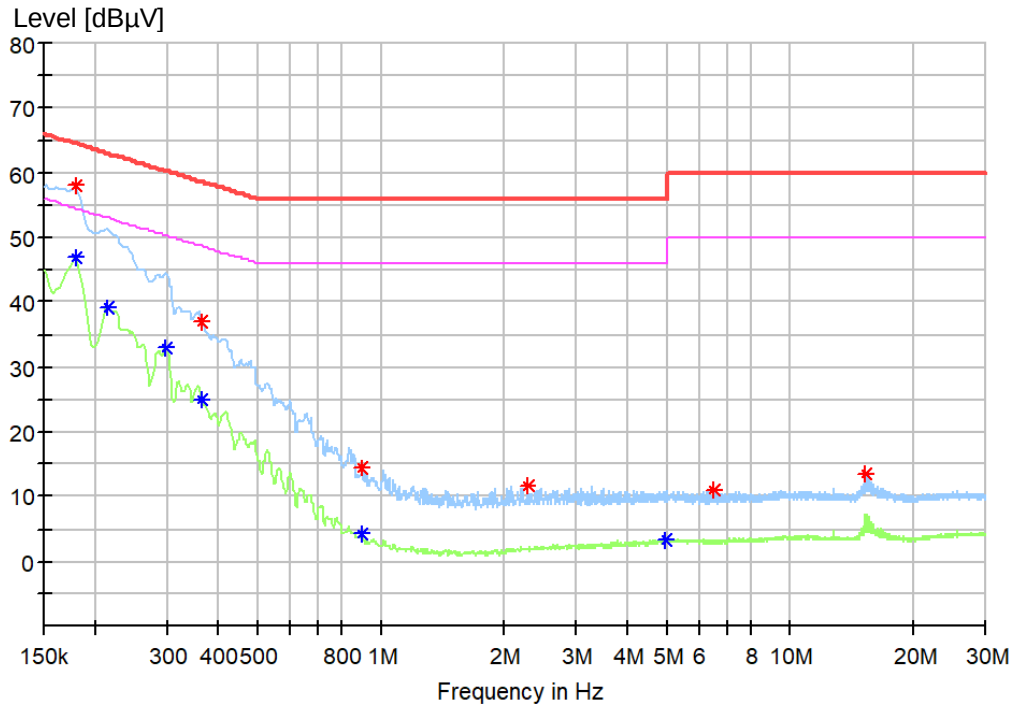
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.179250	54.41	64.52	10.11	L1	10.3
0.363750	34.38	58.64	24.27	L1	10.3
0.892500	13.54	56.00	42.46	L1	10.6
2.262750	10.34	56.00	45.66	L1	10.1
7.028250	9.29	60.00	50.71	L1	10.9
15.326250	12.31	60.00	47.69	L1	10.8

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.179250	43.53	54.52	10.99	L1	10.3
0.215250	36.69	53.00	16.31	L1	10.3
0.298500	30.01	50.28	20.28	L1	10.3
0.363750	22.76	48.64	25.89	L1	10.3
0.892500	4.27	46.00	41.73	L1	10.6
15.326250	6.36	50.00	43.64	L1	10.8

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



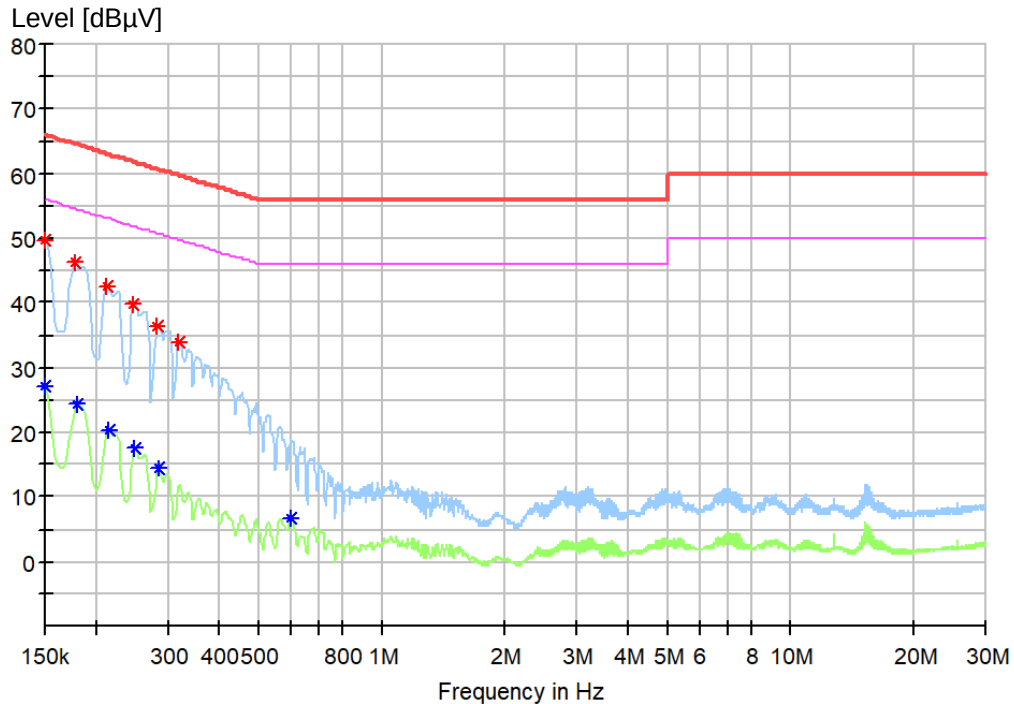
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.179250	57.99	64.52	6.53	N	10.6
0.363750	37.02	58.64	21.63	N	10.4
0.897000	14.59	56.00	41.41	N	10.4
2.278500	11.73	56.00	44.27	N	10.5
6.528750	11.06	60.00	48.94	N	10.5
15.326250	13.44	60.00	46.56	N	11.1

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.179250	46.77	54.52	7.75	N	10.6
0.215250	39.15	53.00	13.85	N	10.8
0.298500	32.94	50.28	17.34	N	10.5
0.363750	24.99	48.64	23.65	N	10.4
0.897000	4.25	46.00	41.75	N	10.4
4.951500	3.38	46.00	42.62	N	10.7

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



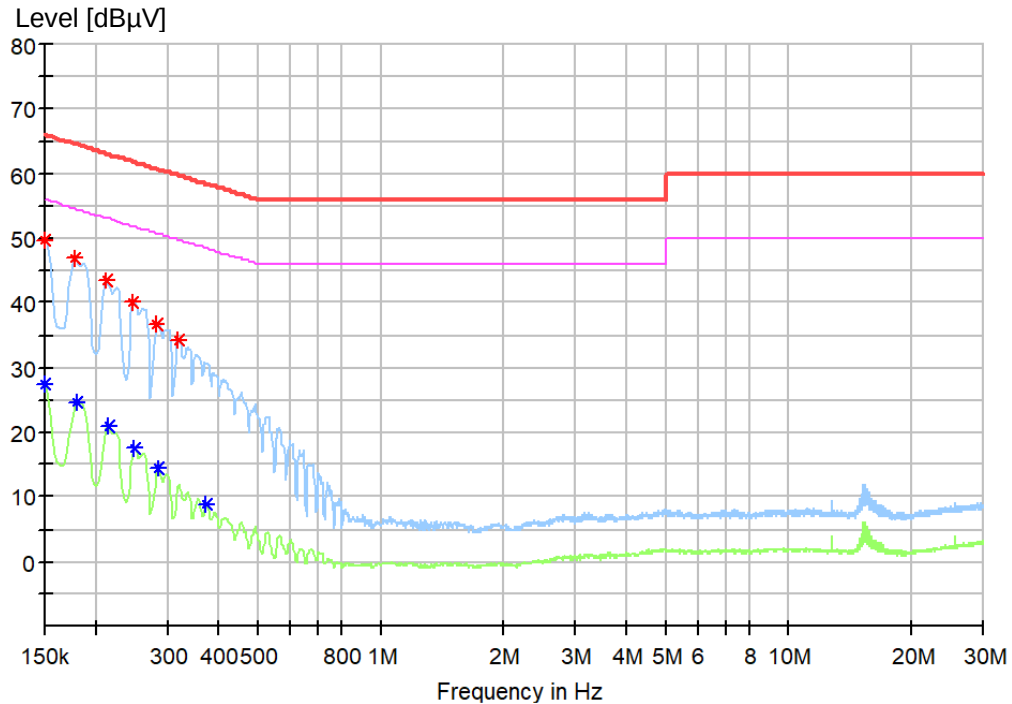
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	49.65	66.00	16.35	L1	10.3
0.177000	46.39	64.63	18.24	L1	10.3
0.213000	42.72	63.09	20.37	L1	10.3
0.246750	39.72	61.87	22.15	L1	10.3
0.282750	36.45	60.74	24.29	L1	10.3
0.318750	33.85	59.74	25.89	L1	10.3

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	27.25	56.00	28.75	L1	10.3
0.179250	24.42	54.52	30.10	L1	10.3
0.215250	20.43	53.00	32.57	L1	10.3
0.249000	17.42	51.79	34.37	L1	10.3
0.285000	14.29	50.67	36.38	L1	10.3
0.600000	6.77	46.00	39.23	L1	10.3

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



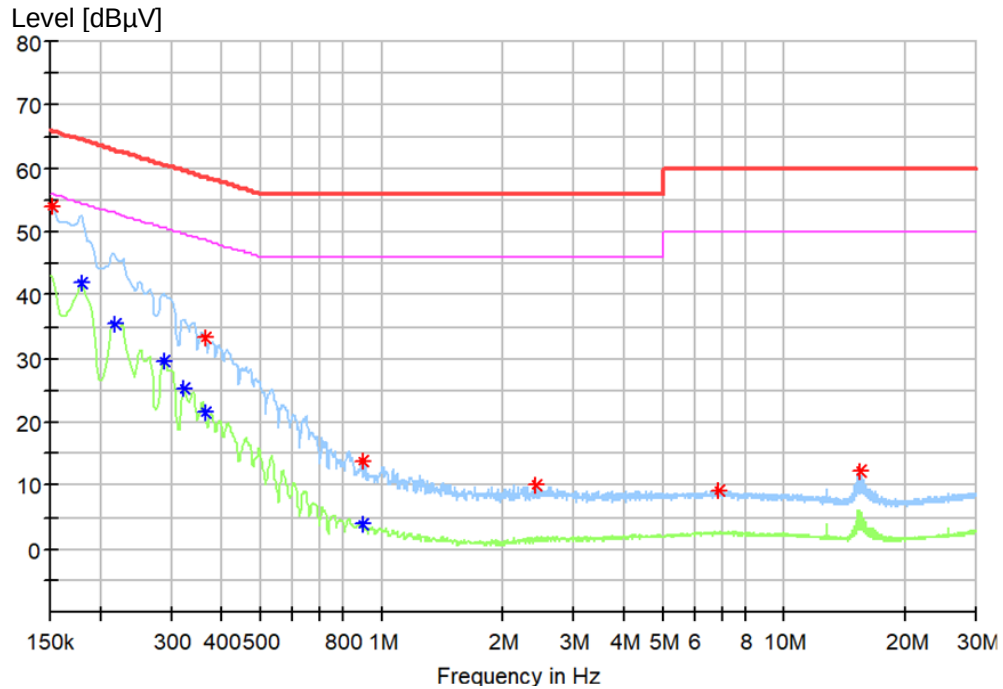
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	49.81	66.00	16.19	N	10.2
0.177000	46.80	64.63	17.83	N	10.5
0.213000	43.36	63.09	19.73	N	10.8
0.246750	39.99	61.87	21.88	N	10.7
0.282750	36.72	60.74	24.01	N	10.6
0.318750	34.12	59.74	25.62	N	10.5

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	27.31	56.00	28.69	N	10.2
0.179250	24.72	54.52	29.80	N	10.6
0.215250	20.85	53.00	32.15	N	10.8
0.249000	17.53	51.79	34.26	N	10.7
0.285000	14.34	50.67	36.33	N	10.6
0.375000	8.72	48.39	39.67	N	10.4

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



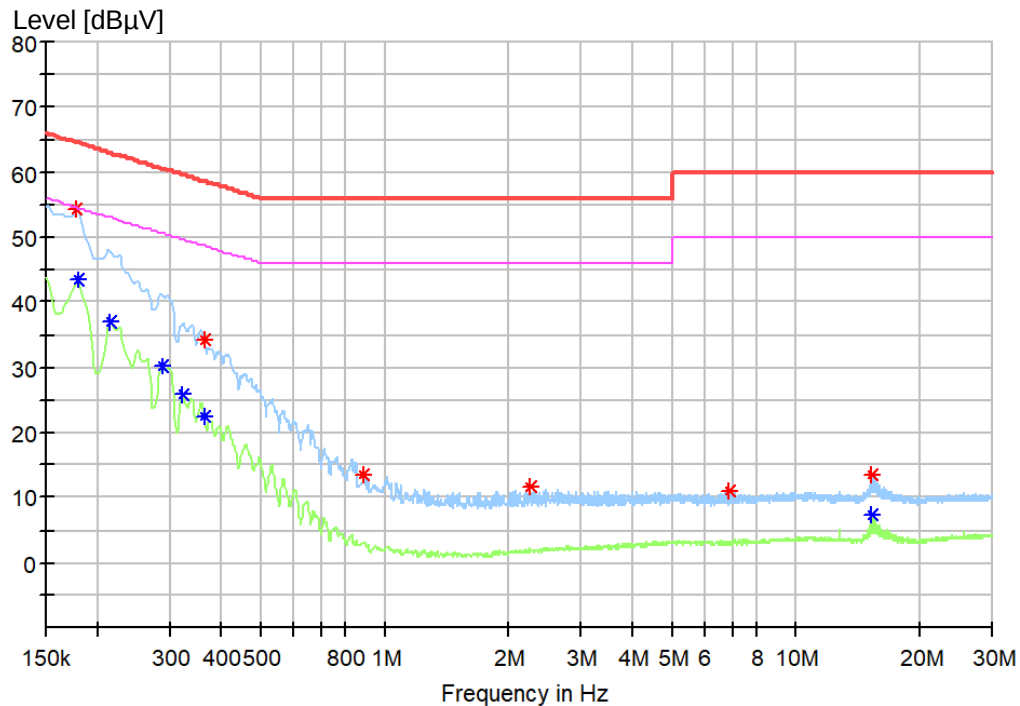
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.152250	53.87	65.88	12.01	L1	10.3
0.363750	33.37	58.64	25.27	L1	10.3
0.894750	13.70	56.00	42.30	L1	10.6
2.424750	10.12	56.00	45.88	L1	10.1
6.864000	9.19	60.00	50.81	L1	10.8
15.486000	12.14	60.00	47.86	L1	10.8

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.179250	41.88	54.52	12.64	L1	10.3
0.217500	35.59	52.91	17.33	L1	10.3
0.287250	29.47	50.60	21.13	L1	10.3
0.323250	25.24	49.62	24.39	L1	10.3
0.363750	21.52	48.64	27.12	L1	10.3
0.894750	3.88	46.00	42.12	L1	10.6

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



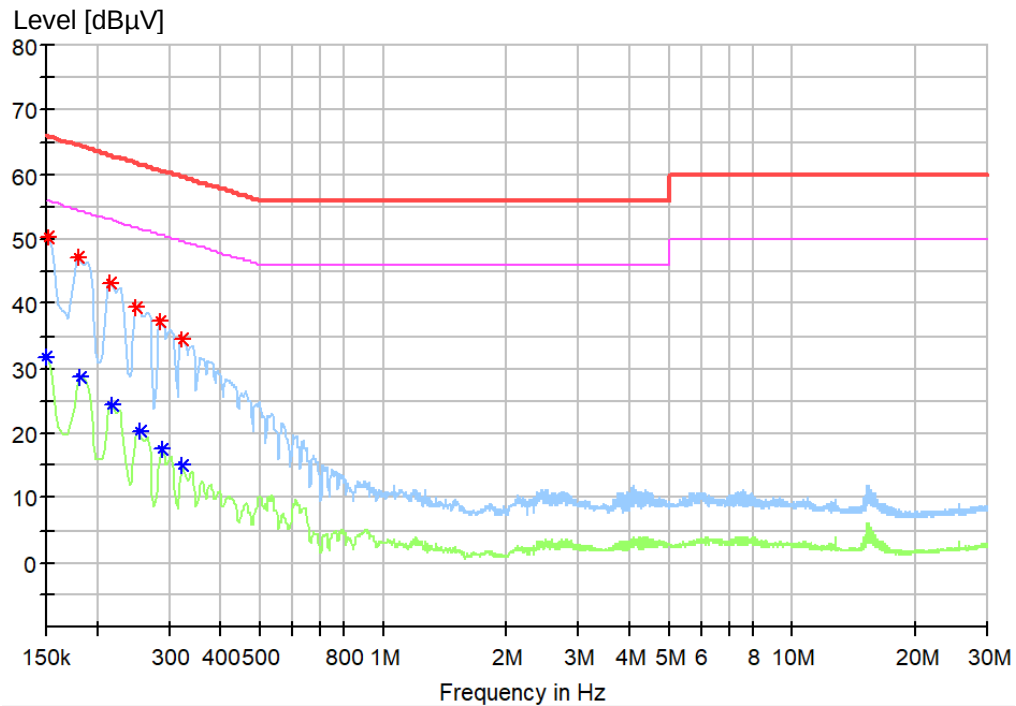
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.177000	54.36	64.63	10.27	N	10.5
0.363750	34.16	58.64	24.48	N	10.4
0.890250	13.54	56.00	42.46	N	10.4
2.256000	11.76	56.00	44.24	N	10.5
6.895500	10.89	60.00	49.11	N	10.5
15.326250	13.56	60.00	46.44	N	11.1

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.179250	43.41	54.52	11.11	N	10.6
0.215250	36.86	53.00	16.14	N	10.8
0.287250	30.33	50.60	20.27	N	10.6
0.323250	25.86	49.62	23.76	N	10.5
0.363750	22.51	48.64	26.13	N	10.4
15.326250	7.37	50.00	42.63	N	11.1

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



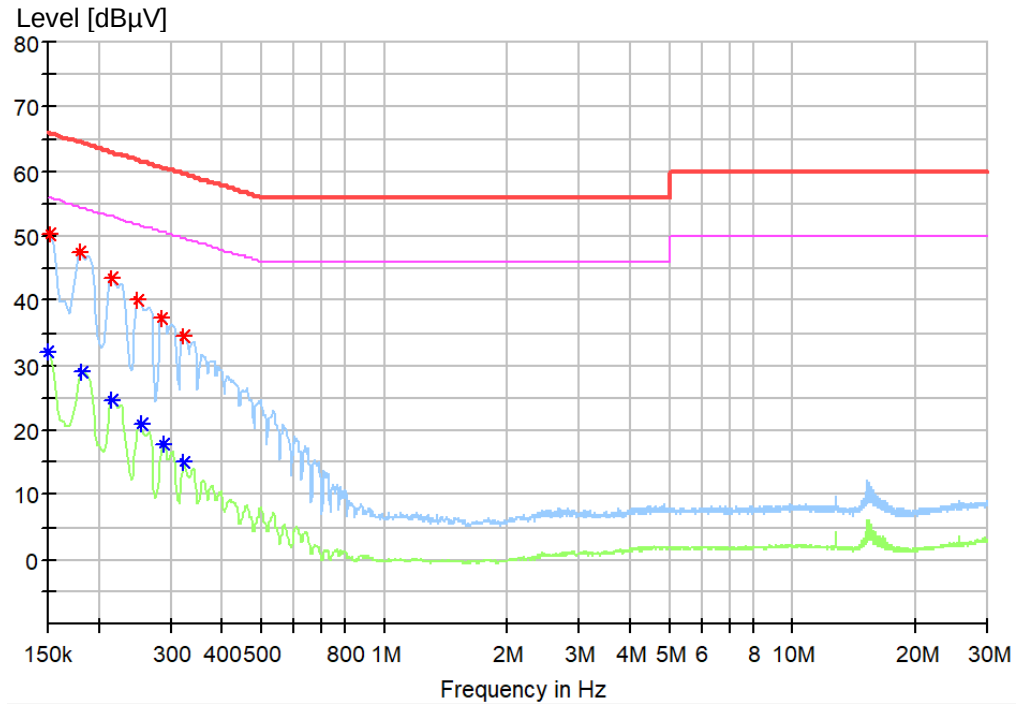
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.152250	50.25	65.88	15.63	L1	10.3
0.179250	47.35	64.52	17.17	L1	10.3
0.215250	43.13	63.00	19.87	L1	10.3
0.249000	39.62	61.79	22.17	L1	10.3
0.285000	37.18	60.67	23.49	L1	10.3
0.321000	34.63	59.68	25.05	L1	10.3

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	31.88	56.00	24.12	L1	10.3
0.181500	28.80	54.42	25.61	L1	10.3
0.217500	24.27	52.91	28.64	L1	10.3
0.253500	20.40	51.64	31.24	L1	10.3
0.289500	17.55	50.54	32.99	L1	10.3
0.323250	15.12	49.62	34.50	L1	10.3

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



Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.152250	50.38	65.88	15.49	N	10.2
0.179250	47.50	64.52	17.02	N	10.6
0.215250	43.41	63.00	19.59	N	10.8
0.249000	40.24	61.79	21.55	N	10.7
0.285000	37.47	60.67	23.20	N	10.6
0.321000	34.60	59.68	25.08	N	10.5

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	31.98	56.00	24.02	N	10.2
0.181500	29.10	54.42	25.32	N	10.6
0.215250	24.59	53.00	28.41	N	10.8
0.253500	20.86	51.64	30.78	N	10.6
0.289500	17.83	50.54	32.71	N	10.6
0.323250	14.99	49.62	34.64	N	10.5

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emission (30-1000 MHz)

Result:	Passed
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Date of testing	: 2025-04-03
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Frequency range	: 30 – 1000 MHz
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 1)
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
Operational mode	: Modes 1, 2, 3, 4 defined in clause 2.3
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 15.4 dB at 726.480000 MHz. The margin is higher than expanded measurement uncertainty.

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

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

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Notes on following tables of radiated emission results and conversions:

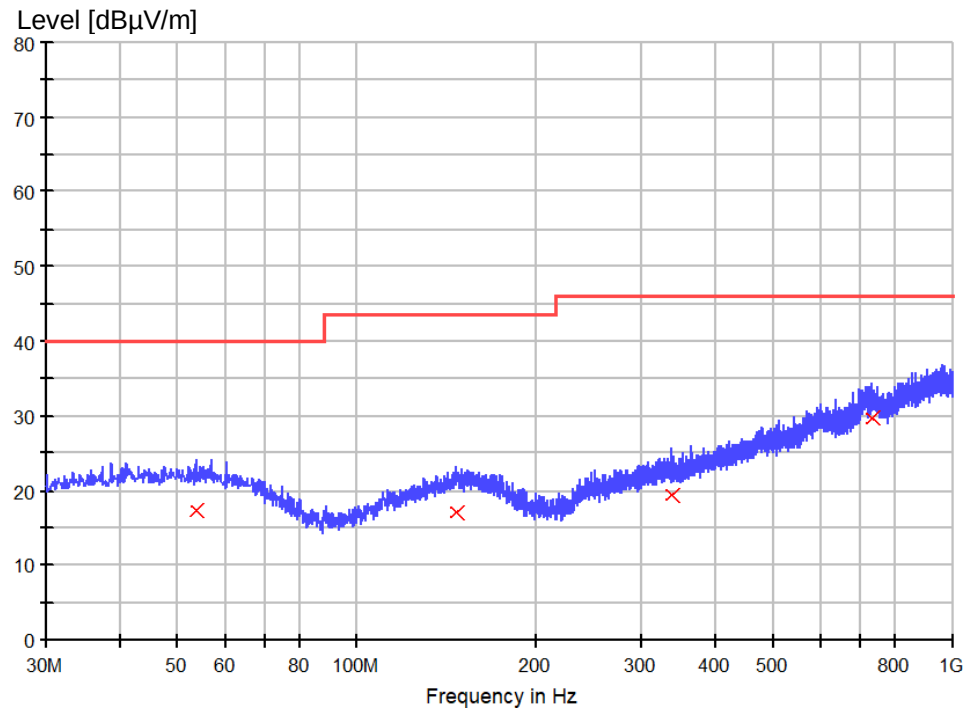
QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector

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

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

Note 1: The class B limits of ICES-005:2018 is stricter than those FCC 47 CFR Part 15, Subpart B:2023 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

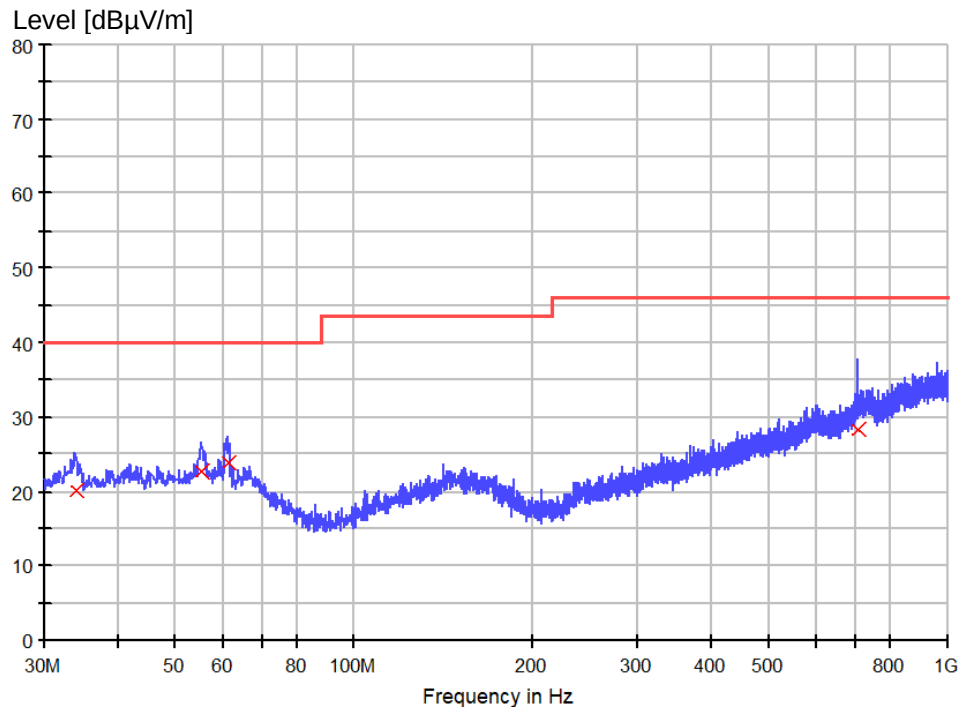
Figure 9: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1



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)
53.640000	17.4	120.000	100.0	H	90.0	14.3	22.6	40.0
146.520000	17.2	120.000	135.0	H	-135.0	14.0	26.3	43.5
338.820000	19.3	120.000	100.0	H	45.0	16.1	26.7	46.0
732.180000	29.8	120.000	150.0	H	-90.0	24.7	16.3	46.0

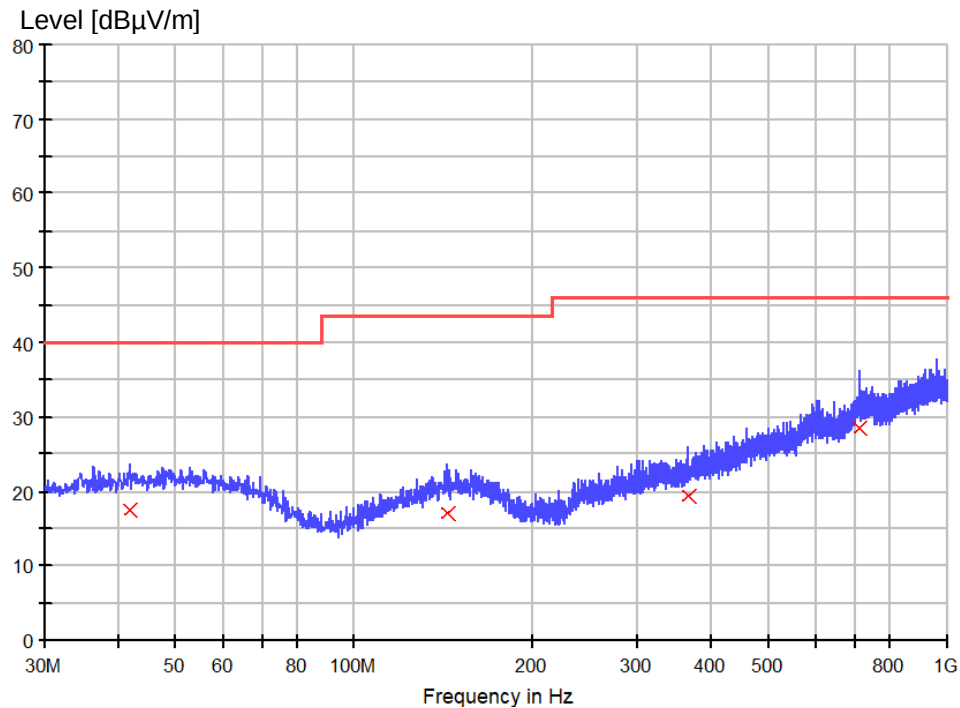
Figure 10: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1



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)
33.900000	20.0	120.000	150.0	V	180.0	13.3	20.0	40.0
55.320000	22.6	120.000	100.0	V	0.0	14.1	17.4	40.0
61.260000	23.8	120.000	100.0	V	-90.0	13.5	16.2	40.0
709.260000	28.2	120.000	200.0	V	135.0	24.3	17.8	46.0

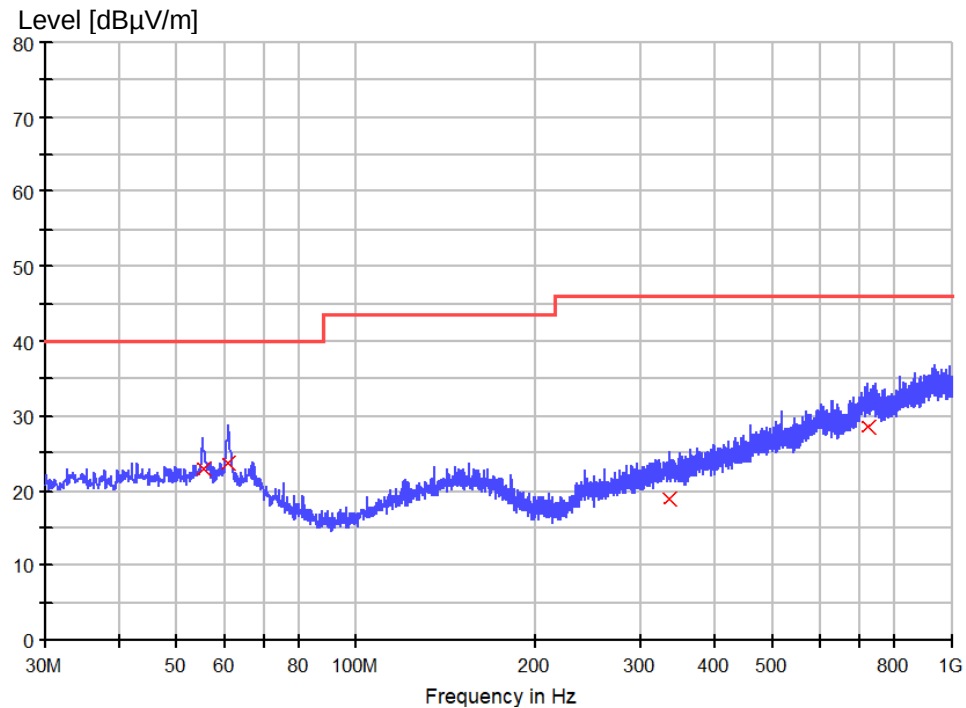
Figure 11: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2



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)
41.760000	17.5	120.000	150.0	H	45.0	14.1	22.5	40.0
143.220000	17.1	120.000	100.0	H	-90.0	13.9	26.4	43.5
365.160000	19.3	120.000	120.0	H	135.0	16.1	26.7	46.0
710.220000	28.5	120.000	100.0	H	-180.0	24.2	17.5	46.0

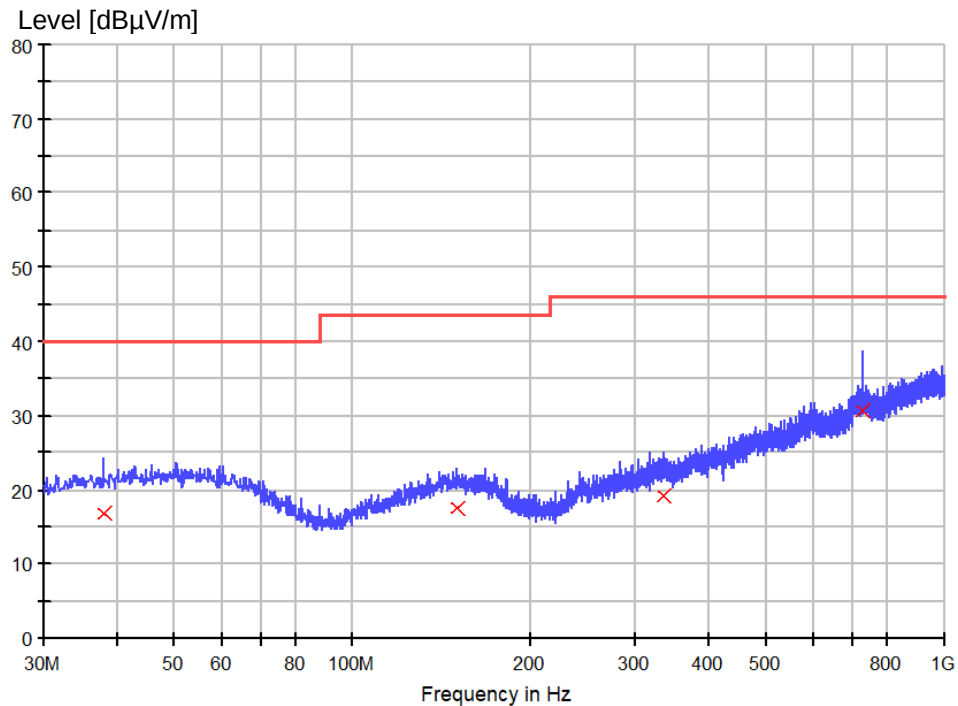
Figure 12: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 2



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)
55.320000	22.8	120.000	135.0	V	-105.0	14.1	17.2	40.0
60.900000	23.6	120.000	100.0	V	0.0	13.6	16.4	40.0
335.040000	19.1	120.000	200.0	V	-180.0	15.9	27.0	46.0
720.420000	28.5	120.000	100.0	V	45.0	24.8	17.5	46.0

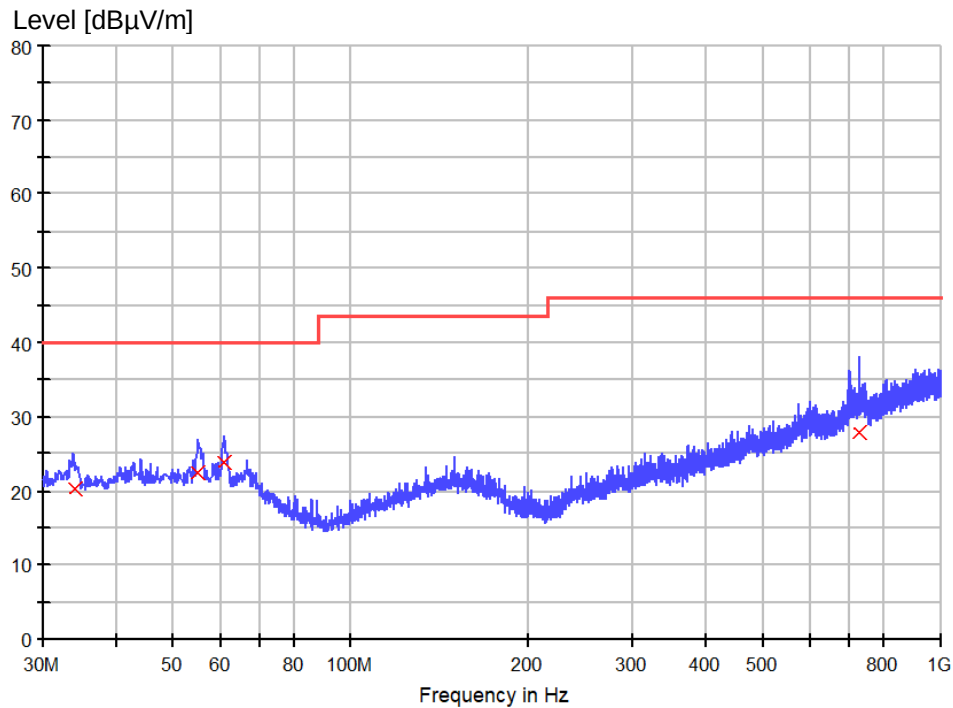
Figure 13: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 3



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)
37.980000	16.9	120.000	100.0	H	-90.0	13.6	23.1	40.0
149.700000	17.5	120.000	200.0	H	180.0	14.3	26.0	43.5
335.700000	19.1	120.000	100.0	H	-135.0	15.9	26.9	46.0
726.480000	30.6	120.000	150.0	H	45.0	24.2	15.4	46.0

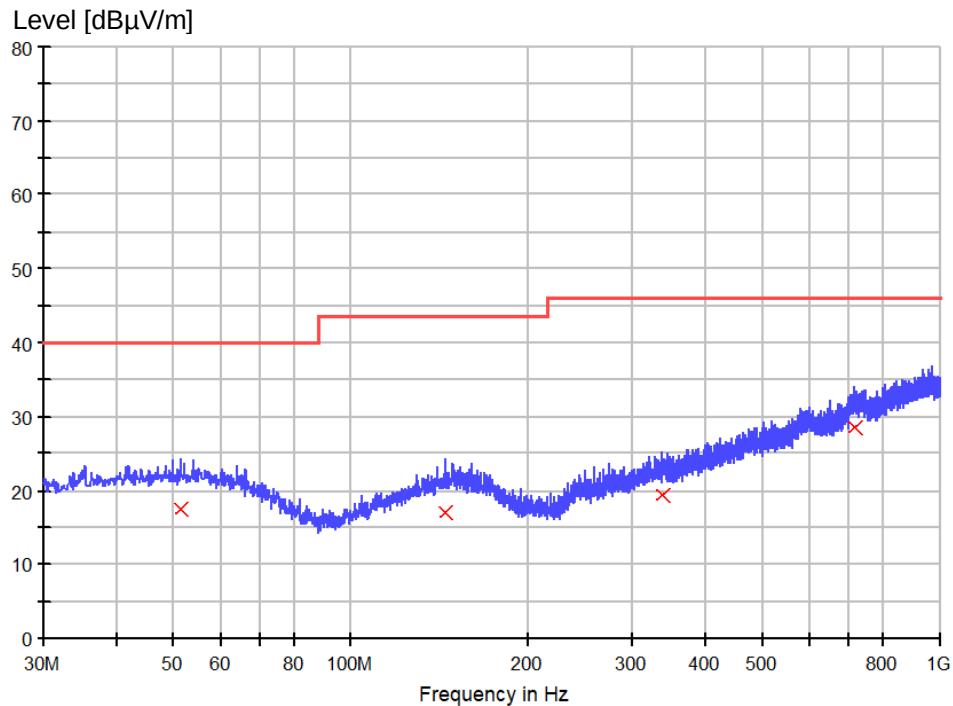
Figure 14: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 3



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)
33.900000	20.4	120.000	100.0	V	45.0	13.3	19.6	40.0
54.960000	22.4	120.000	130.0	V	-90.0	14.2	17.6	40.0
61.020000	23.9	120.000	100.0	V	180.0	13.5	16.1	40.0
728.040000	27.9	120.000	220.0	V	-135.0	24.3	18.1	46.0

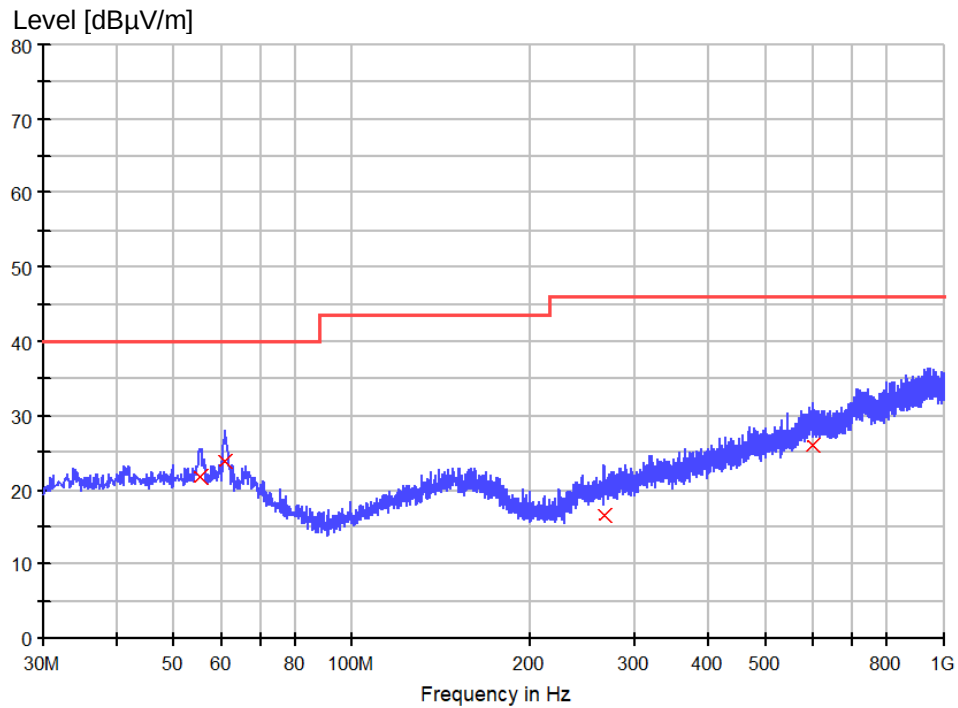
Figure 15: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 4



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)
51.480000	17.5	120.000	100.0	H	90.0	14.3	22.5	40.0
144.120000	17.1	120.000	130.0	H	0.0	14.0	26.5	43.5
338.700000	19.3	120.000	100.0	H	-45.0	16.1	26.7	46.0
718.680000	28.6	120.000	150.0	H	180.0	24.9	17.4	46.0

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)
55.560000	21.7	120.000	100.0	V	90.0	14.1	18.3	40.0
60.900000	23.8	120.000	125.0	V	-135.0	13.6	16.2	40.0
267.660000	16.7	120.000	150.0	V	45.0	13.6	29.3	46.0
598.680000	26.0	120.000	100.0	V	-90.0	22.1	20.0	46.0

5.2.2 Radiated Emission (1-18 GHz)

Result:
Passed

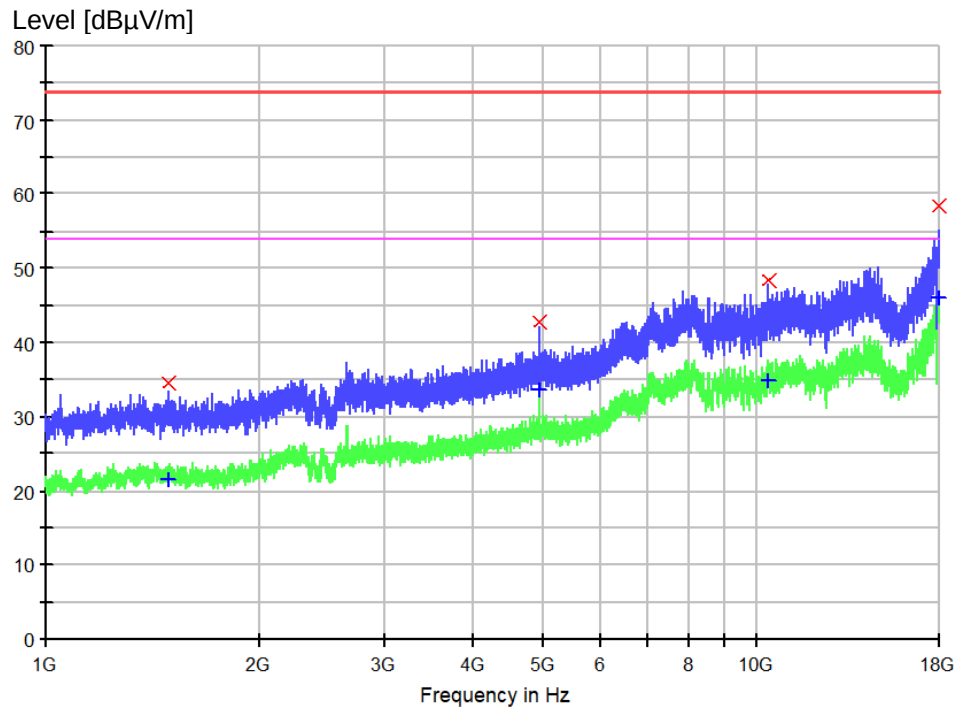
Date of testing	: 2025-03-28
Port	: Enclosure
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Limit	: Peak limits (3 m distance): 1–18 GHz, 74 dB μ V/m Average limits (3 m distance): 1–18 GHz, 54 dB μ V/m
Frequency range	: 1 – 18 GHz (see Note 2)
Kind of test site	: Semi-anechoic chamber with RF absorber material on the ground plane.
Test distance	: 3 m
Test voltage	: AC 120 V, 60 Hz
Operational mode	: Modes 1, 2, 3, 4 defined in clause 2.3
Earthing	: No earth
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 7.6 dB at 17971.500000 MHz. The margin is higher than expanded measurement uncertainty.

The radiated disturbance test was carried out in the semi-anechoic chamber with RF absorber material on the ground plane. 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 supporting table. And the supporting 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. The final test was performed with peak detector and average detector at those critical frequencies during the preview test. In the following figure, “×” and “+” means measurement results with peak detector and average detector.

Note 2: The highest frequency in the EUT is 2480 MHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 18 GHz.

Figure 17: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Horizontal polarization on mode 1



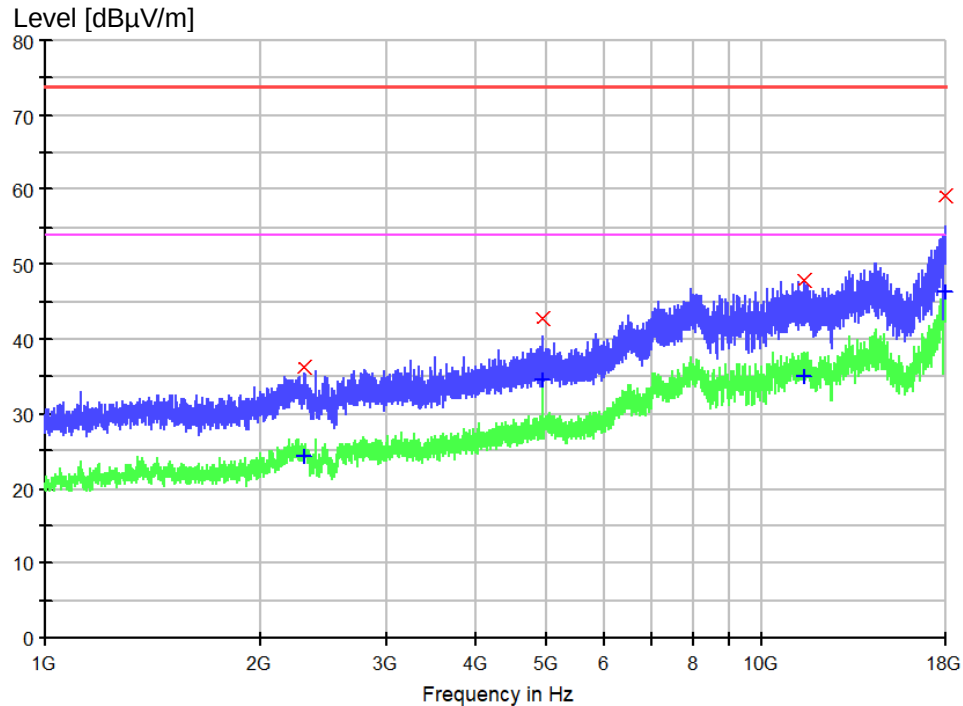
Final peak measurement result:

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)
1492.000000	34.6	1000.0	1000.000	135.0	H	-180.0	-18.7	39.4	74.0
4952.500000	42.8	1000.0	1000.000	120.0	H	0.0	-11.2	31.2	74.0
10386.000000	48.4	1000.0	1000.000	135.0	H	90.0	-2.7	25.6	74.0
17985.500000	58.6	1000.0	1000.000	200.0	H	-45.0	12.1	15.5	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)
1492.000000	21.5	1000.0	1000.000	135.0	H	-180.0	-18.7	32.6	54.0
4952.500000	33.6	1000.0	1000.000	120.0	H	0.0	-11.2	20.4	54.0
10386.000000	34.9	1000.0	1000.000	135.0	H	90.0	-2.7	19.1	54.0
17985.500000	46.0	1000.0	1000.000	200.0	H	-45.0	12.1	8.0	54.0

Figure 18: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Vertical polarization on mode 1



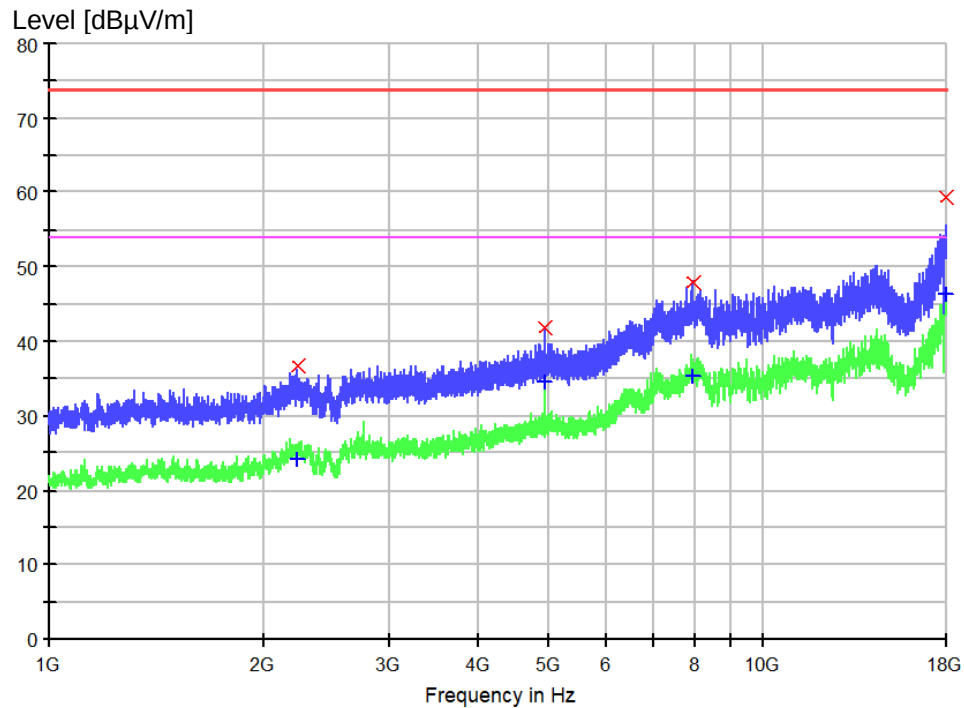
Final peak measurement result:

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)
2298.500000	36.2	1000.0	1000.000	100.0	V	-90.0	-15.8	37.8	74.0
4952.500000	42.9	1000.0	1000.000	135.0	V	135.0	-11.2	31.1	74.0
11440.000000	48.0	1000.0	1000.000	200.0	V	-180.0	-2.2	26.0	74.0
17959.500000	59.2	1000.0	1000.000	150.0	V	120.0	11.7	14.8	74.0

Final average 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)
2298.500000	36.2	1000.0	1000.000	100.0	V	-90.0	-15.8	37.8	74.0
4952.500000	42.9	1000.0	1000.000	135.0	V	135.0	-11.2	31.1	74.0
11440.000000	48.0	1000.0	1000.000	200.0	V	-180.0	-2.2	26.0	74.0
17959.500000	59.2	1000.0	1000.000	150.0	V	120.0	11.7	14.8	74.0

Figure 19: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Horizontal polarization on mode 2



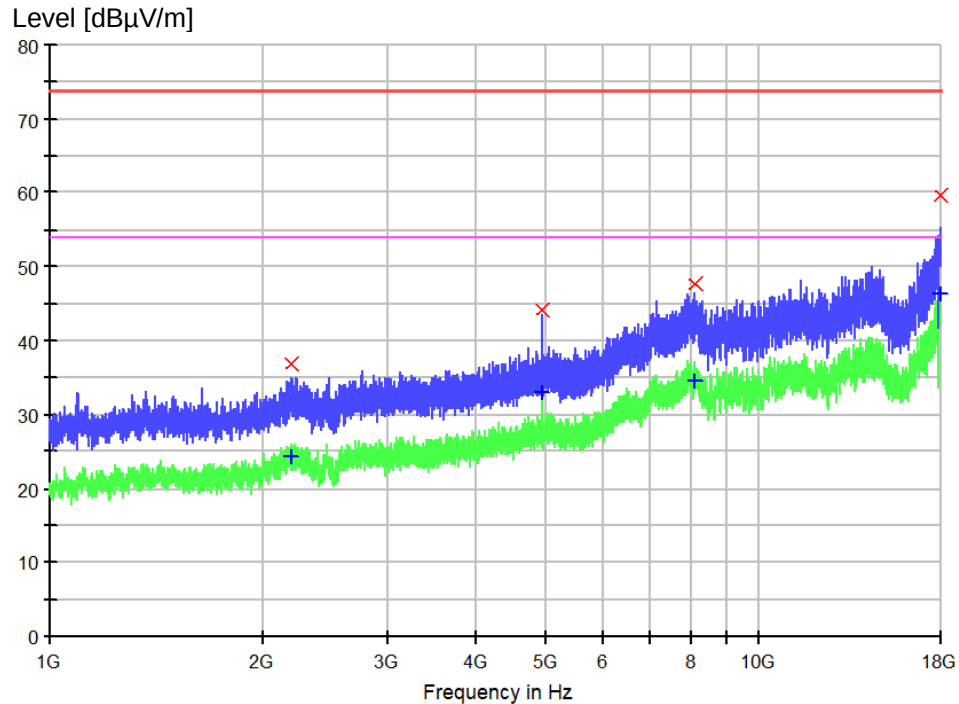
Final peak measurement result:

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)
2232.500000	36.8	1000.0	1000.000	135.0	H	-45.0	-15.6	37.2	74.0
4952.500000	42.0	1000.0	1000.000	100.0	H	100.0	-11.2	32.1	74.0
7971.000000	48.0	1000.0	1000.000	150.0	H	-180.0	-3.6	26.0	74.0
17957.000000	59.5	1000.0	1000.000	200.0	H	135.0	11.6	14.5	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)
2232.500000	24.1	1000.0	1000.000	135.0	H	-45.0	-15.6	29.9	54.0
4952.500000	34.7	1000.0	1000.000	100.0	H	100.0	-11.2	19.3	54.0
7971.000000	35.3	1000.0	1000.000	150.0	H	-180.0	-3.6	18.7	54.0
17957.000000	46.2	1000.0	1000.000	200.0	H	135.0	11.6	7.8	54.0

Figure 20: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Vertical polarization on mode 2



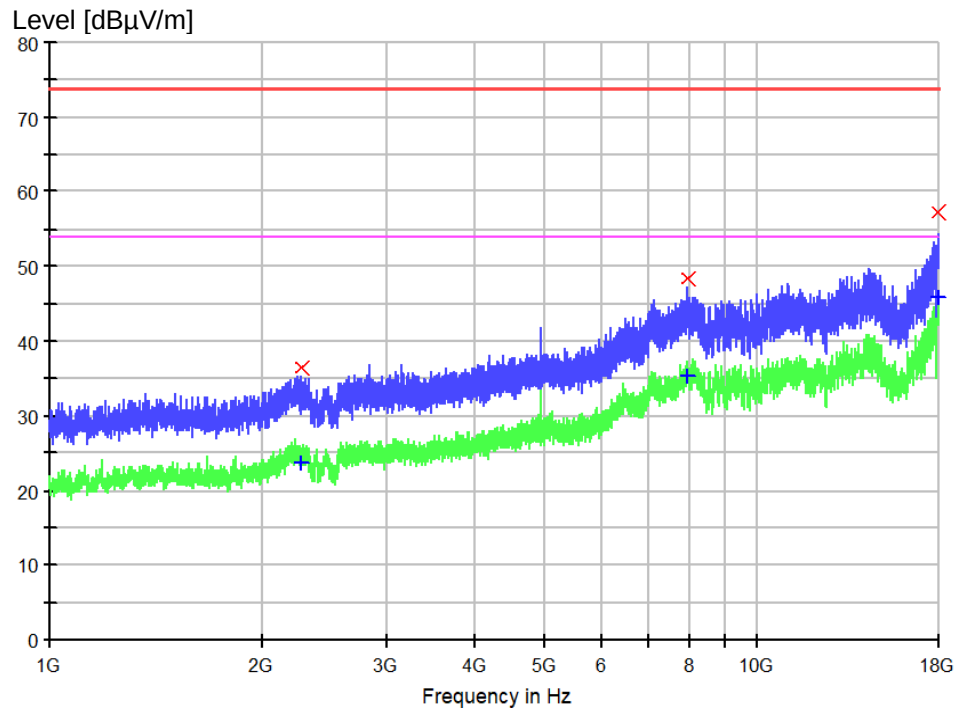
Final peak measurement result:

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)
2193.000000	36.9	1000.0	1000.000	105.0	V	90.0	-15.8	37.1	74.0
4952.500000	44.1	1000.0	1000.000	150.0	V	-150.0	-11.2	29.9	74.0
8131.500000	47.8	1000.0	1000.000	135.0	V	180.0	-4.3	26.2	74.0
17981.000000	59.6	1000.0	1000.000	200.0	V	-45.0	12.0	14.4	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)
2193.000000	24.4	1000.0	1000.000	105.0	V	90.0	-15.8	29.6	54.0
4952.500000	33.1	1000.0	1000.000	150.0	V	-150.0	-11.2	20.9	54.0
8131.500000	34.6	1000.0	1000.000	135.0	V	180.0	-4.3	19.4	54.0
17981.000000	46.2	1000.0	1000.000	200.0	V	-45.0	12.0	7.8	54.0

Figure 21: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Horizontal polarization on mode 3



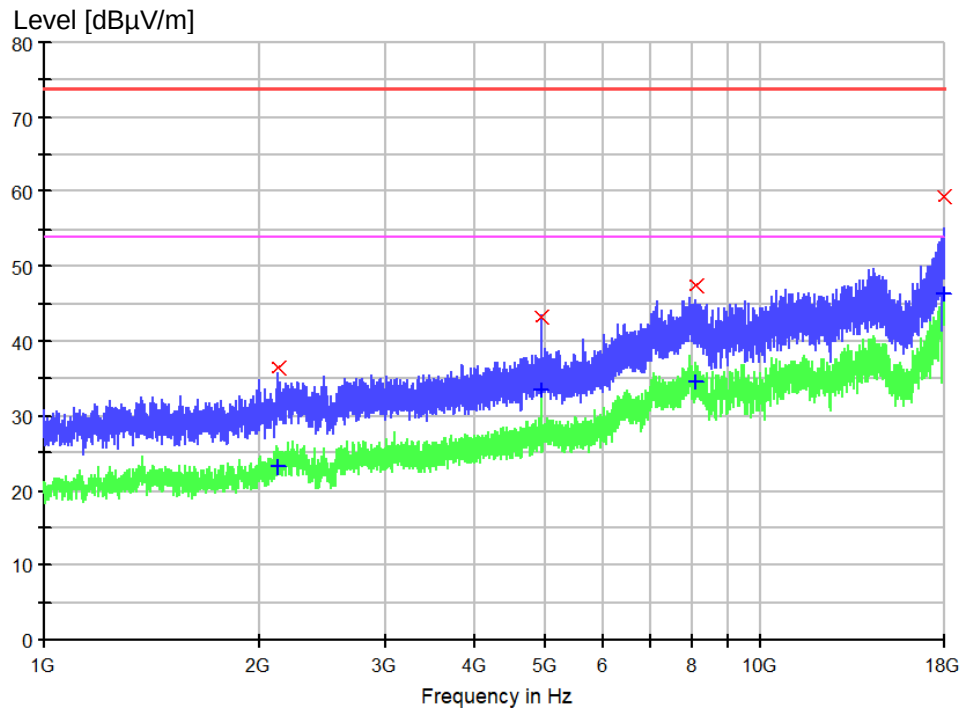
Final peak measurement result:

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)
2273.000000	36.5	1000.0	1000.000	100.0	H	60.0	-15.7	37.6	74.0
7984.500000	48.4	1000.0	1000.000	150.0	H	-180.0	-3.6	25.6	74.0
17987.000000	57.3	1000.0	1000.000	135.0	H	90.0	12.2	16.7	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)
2273.000000	23.6	1000.0	1000.000	100.0	H	60.0	-15.7	30.4	54.0
7984.500000	35.4	1000.0	1000.000	150.0	H	-180.0	-3.6	18.6	54.0
17987.000000	45.8	1000.0	1000.000	135.0	H	90.0	12.2	8.2	54.0

Figure 22: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Vertical polarization on mode 3



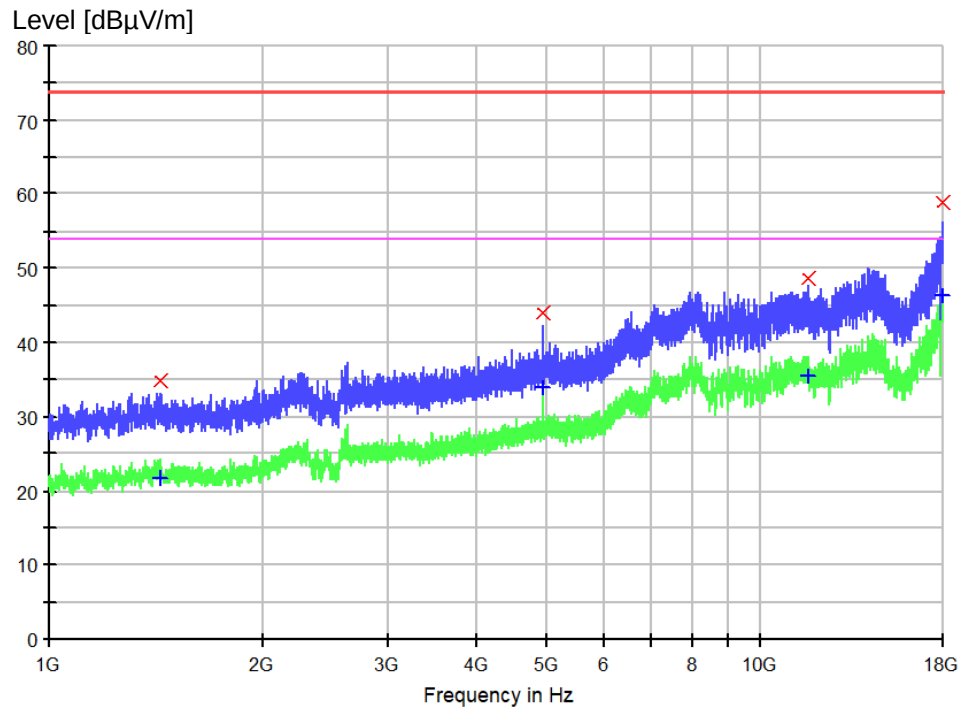
Final peak measurement result:

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)
2123.500000	36.5	1000.0	1000.000	100.0	V	-60.0	-16.7	37.6	74.0
4952.500000	43.3	1000.0	1000.000	105.0	V	0.0	-11.2	30.7	74.0
8141.500000	47.5	1000.0	1000.000	150.0	V	30.0	-4.3	26.5	74.0
17976.500000	59.4	1000.0	1000.000	200.0	V	-100.0	12.0	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)
2123.500000	23.3	1000.0	1000.000	100.0	V	-60.0	-16.7	30.7	54.0
4952.500000	33.4	1000.0	1000.000	105.0	V	0.0	-11.2	20.6	54.0
8141.500000	34.6	1000.0	1000.000	150.0	V	30.0	-4.3	19.4	54.0
17976.500000	46.3	1000.0	1000.000	200.0	V	-100.0	12.0	7.7	54.0

Figure 23: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Horizontal polarization on mode 4



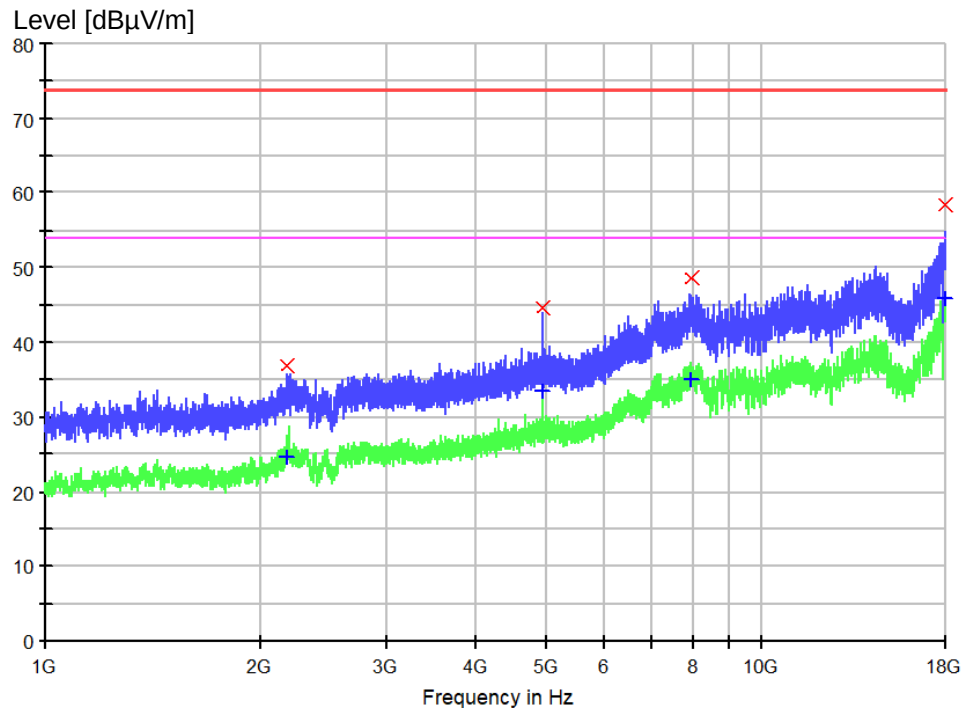
Final peak measurement result:

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)
1431.500000	34.8	1000.0	1000.000	100.0	H	-90.0	-18.6	39.2	74.0
4952.500000	44.0	1000.0	1000.000	120.0	H	45.0	-11.2	30.0	74.0
11643.500000	48.7	1000.0	1000.000	135.0	H	-180.0	-2.3	25.3	74.0
17971.500000	59.0	1000.0	1000.000	150.0	H	105.0	11.9	15.0	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)
1431.500000	21.7	1000.0	1000.000	100.0	H	-90.0	-18.6	32.3	54.0
4952.500000	33.8	1000.0	1000.000	120.0	H	45.0	-11.2	20.2	54.0
11643.500000	35.5	1000.0	1000.000	135.0	H	-180.0	-2.3	18.5	54.0
17971.500000	46.4	1000.0	1000.000	150.0	H	105.0	11.9	7.6	54.0

Figure 24: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Vertical polarization on 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)
2182.500000	37.0	1000.0	1000.000	150.0	V	45.0	-15.9	37.0	74.0
4952.500000	44.8	1000.0	1000.000	105.0	V	-90.0	-11.2	29.3	74.0
7974.000000	48.6	1000.0	1000.000	150.0	V	60.0	-3.6	25.4	74.0
17987.000000	58.4	1000.0	1000.000	200.0	V	0.0	12.2	15.6	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)
2182.500000	24.6	1000.0	1000.000	150.0	V	45.0	-15.9	29.5	54.0
4952.500000	33.5	1000.0	1000.000	105.0	V	-90.0	-11.2	20.5	54.0
7974.000000	35.1	1000.0	1000.000	150.0	V	60.0	-3.6	18.9	54.0
17987.000000	45.9	1000.0	1000.000	200.0	V	0.0	12.2	8.1	54.0

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6 Photographs of the Test Set-Up

Refer to the test setup file.

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7 List of Test and Measurement Instruments

Equip. no.	Equipment name	Model	Serial no.	Manufacturer	Cal. date	Due date
EMC-S-028	EMI measurement software	EMC32-E+ (10.60.20)	100150	Rohde & Schwarz	N/A	N/A
EMC-C-366	Thermohygrometer	608-H1	2485149174	testo	2024-07-26	2025-07-26
EMC-C-195	EMI test receiver	ESR3	102794	Rohde & Schwarz	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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End of test report