

Prüfbericht-Nr.: <i>Test Report No.:</i>	CN241BMW 002	Auftrags-Nr.: <i>Order No.:</i>	326106043	Seite 1 von 22 <i>Page 1 of 22</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	1288983	Auftragsdatum: <i>Order date.:</i>	2025-04-23	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81, Älmhult Sweden			
Prüfgegenstand: <i>Test item:</i>	SJÖSS USB Charger			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	E2502-NA			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland EMC service			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2023 Class B ICES-003:2020			
Wareneingangsdatum: <i>Date of receipt:</i>	2025-08-11	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A004064957-026			
Prüfzeitraum: <i>Testing period:</i>	2025-08-14			
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: / tested by: <i>Xuelan Zhang</i> XueLan Zhang		genehmigt von: / authorized by: <i>JiaYi Zhou</i> JiaYi Zhou		
Datum: / Date: 2025-09-26		Datum: / Date: 2025-09-26		
Stellung: / Position: Project engineer		Stellung: / Position: Authorizer		
Sonstiges / Other:	FCC ID: FHO-E2502 Test Firm Name: TUV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979			
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 specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
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Anmerkungen

Remarks

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

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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN241BMW 001	2025-01-02	Initial release.
CN241BMW 002	2025-09-26	Change circuit diagram and PCB layout.

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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 a SJÖSS USB Charger. For the further information, refer to the user's manual.

2.2 Ratings and System Details

Rated input : AC 100-240 V, 50/60 Hz; Max. 1.6 A
Output : 5.0 V==3.0 A 15.0 W
9.0 V==3.0 A 27.0 W
12.0 V==3.0 A 36.0 W
15.0 V==3.0 A 45.0 W
20.0 V==3.25 A 65.0 W
PPS: 5.0-16.0 V== 3.0 A 48.0 W

Protection class : II

The above model E2502-EU was already EMC tested in report CN24C7DG 001.

This report is only for changing circuit diagram and PCB layout. Therefore, all the EMC tests were performed.

Component	Model/ Parameter	Remark
Q1	IGD70R140D2S	change parameter
CX1	0.15uF	change parameter
CY1,CY2	102/500 V	change parameter
heatsink	heatsink (galvanized iron)	change parameter
CE1,CE2	27 uF/400 V	change parameter
R16	330 Ω/0603	add R16
C36	332/50V/0603	add C36
R12	390 Ω/0603	change parameter
R13	20 Ω/0603	change parameter
R25	47 K/0603	change parameter
DZ1	NA	remove DZ1
C6	105/100 V/1206	change parameter
C16	224/100 V/0805	change parameter
U2	DK5V100R10VL	change parameter
C17	N/A	remove C17
R37	N/A	remove R37
R33	N/A	remove R33
C24	N/A	remove C24

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Q2	N/A	remove Q2
C13	101/1 kV/0805	change parameter

2.3 Independent Operation Modess

The basic operation mode is continuously operating with matching load.

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 less than 108 MHz.

2.7 Submitted Documents

Circuit diagram, user's manual and rating label.

3 Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

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

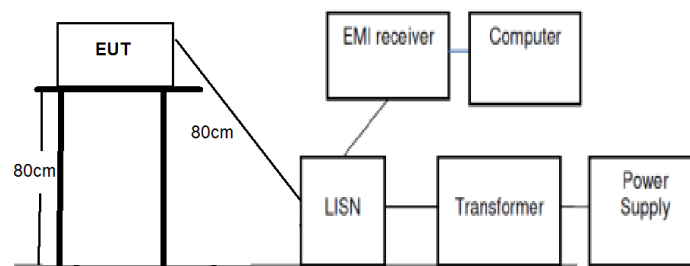
Refer to the related paragraph of this report.

The sequence of testing:

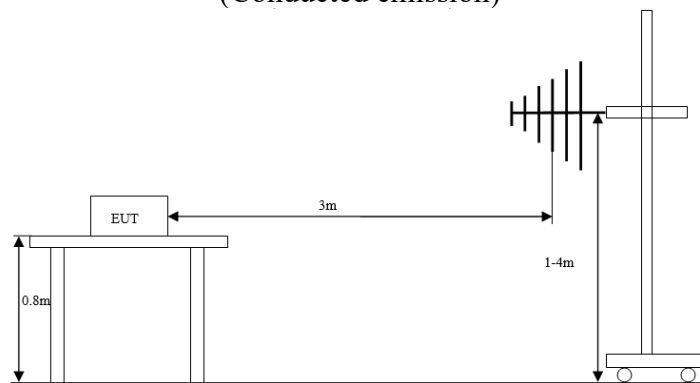
1. Radiated emission tests were performed on 2025-08-14.
2. Conducted emission tests were performed on 2025-08-14.

3.2 Equipment and cable arrangement

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



(Conducted emission)



(Radiated emission)

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3.3 Test Software

No special test software was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

During all testing, matching load was used for USB port load.

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 Mains Terminal Continuous Disturbance Voltage

Result:		Passed
Date of testing	: 2025-08-14	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, 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 as defined in clause 2.3	
Ambient condition	: Temperature: 23.5 °C; Relative humidity: 49.5 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 9.53 dB at 0.183750 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, “*” mean Quasi-Peak Value and “*” mean 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)

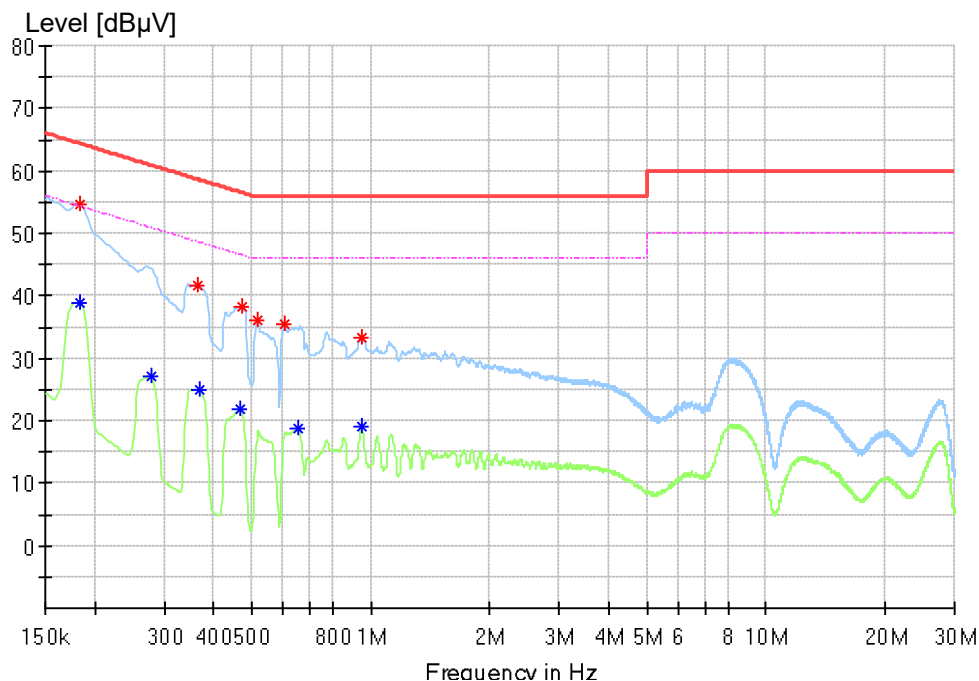
Margin: Limit (dB μ V) - Level (dB μ V)

Note 1: The EUT generated the highest emission level under DC 20 V by measurement. Therefore, only the data of DC 20 V was retained.

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.183750	54.79	64.31	9.53	L1	10.5
0.363750	41.75	58.64	16.89	L1	10.5
0.471750	38.32	56.48	18.16	L1	10.5
0.514500	36.07	56.00	19.93	L1	10.5
0.602250	35.51	56.00	20.49	L1	10.5
0.944250	33.39	56.00	22.61	L1	10.5

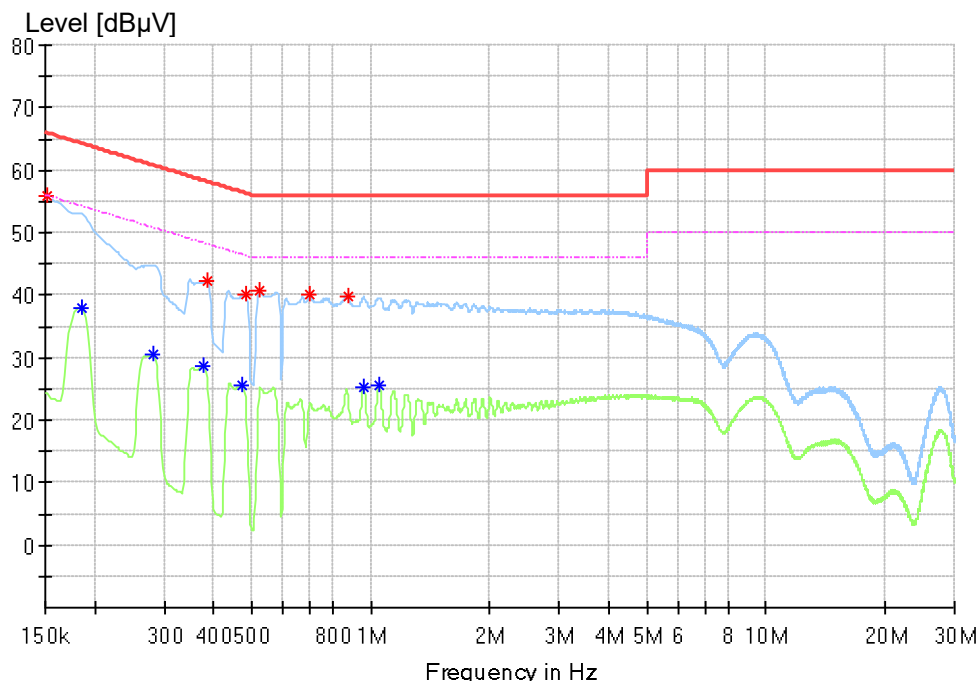
Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.183750	38.77	54.31	15.54	L1	10.5
0.278250	27.01	50.87	23.86	L1	10.5
0.368250	24.82	48.54	23.72	L1	10.5
0.469500	21.99	46.52	24.53	L1	10.5
0.656250	18.68	46.00	27.32	L1	10.5
0.946500	19.06	46.00	26.94	L1	10.5

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.152250	55.74	65.88	10.14	N	10.3
0.384000	42.39	58.19	15.80	N	10.3
0.480750	40.23	56.33	16.10	N	10.3
0.523500	40.76	56.00	15.24	N	10.3
0.696750	40.21	56.00	15.79	N	10.3
0.879000	39.73	56.00	16.27	N	10.3

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.186000	37.83	54.21	16.39	N	10.3
0.280500	30.39	50.80	20.42	N	10.3
0.377250	28.67	48.34	19.67	N	10.3
0.474000	25.63	46.44	20.81	N	10.3
0.957750	25.39	46.00	20.61	N	10.3
1.047750	25.50	46.00	20.50	N	10.3

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emission (30 MHz - 1 GHz)

Result:		Passed
Date of testing	: 2025-08-14	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3	
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 – 960 MHz, 46 dB μ V/m; Above 960 MHz, 54 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	
Operational mode	: Mode as defined in clause 2.3	
Input voltage	: AC 120 V; 60 Hz	
Ambient condition	: Temperature: 23.5 °C; Relative humidity: 51.5 %	
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 13.1 dB at 31.212500 MHz. The margin is high 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. 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, “x” means quasi-peak test results.

Note 1: The highest frequency of the internal sources of the EUT is less than 108 MHz, so according to FCC 47 CFR Part 15, Subpart B:2020 this measurement was only made up to 1 GHz.

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Note 2: The class B limits of FCC 47 CFR Part 15, Subpart B:2023 is stricter than those ICES-003:2020 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

Note 3: The EUT generated the highest emission level under DC 20 V by measurement. Therefore, only the data of DC 20 V was retained.

Notes on following tables of radiated emission results and conversions:

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

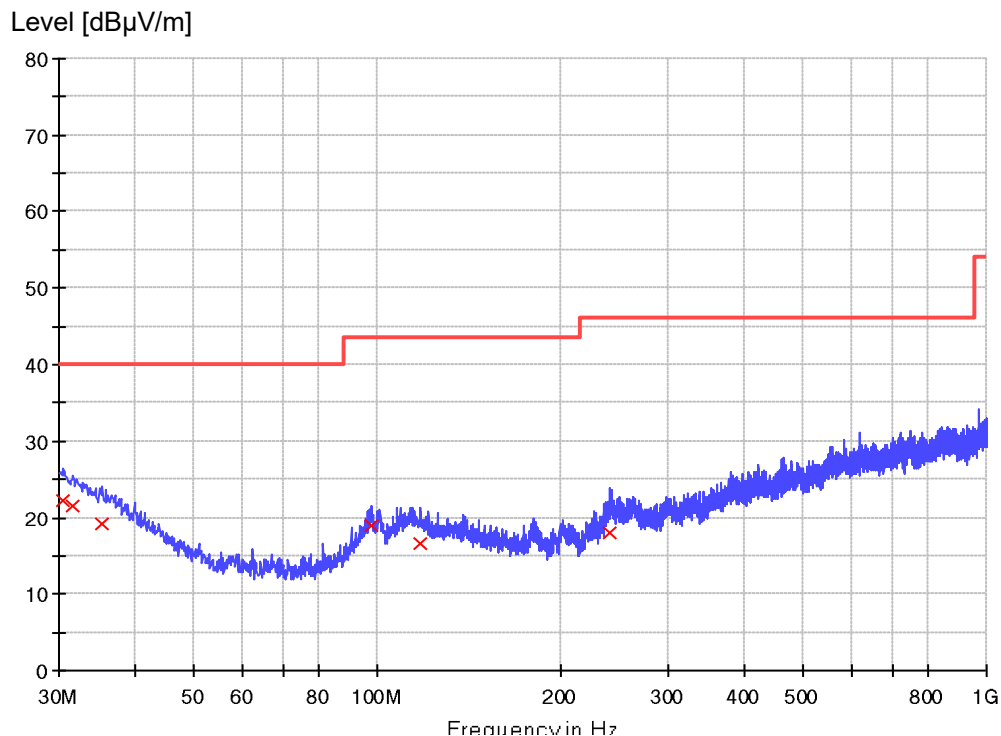
Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)

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

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Figure 3: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz)



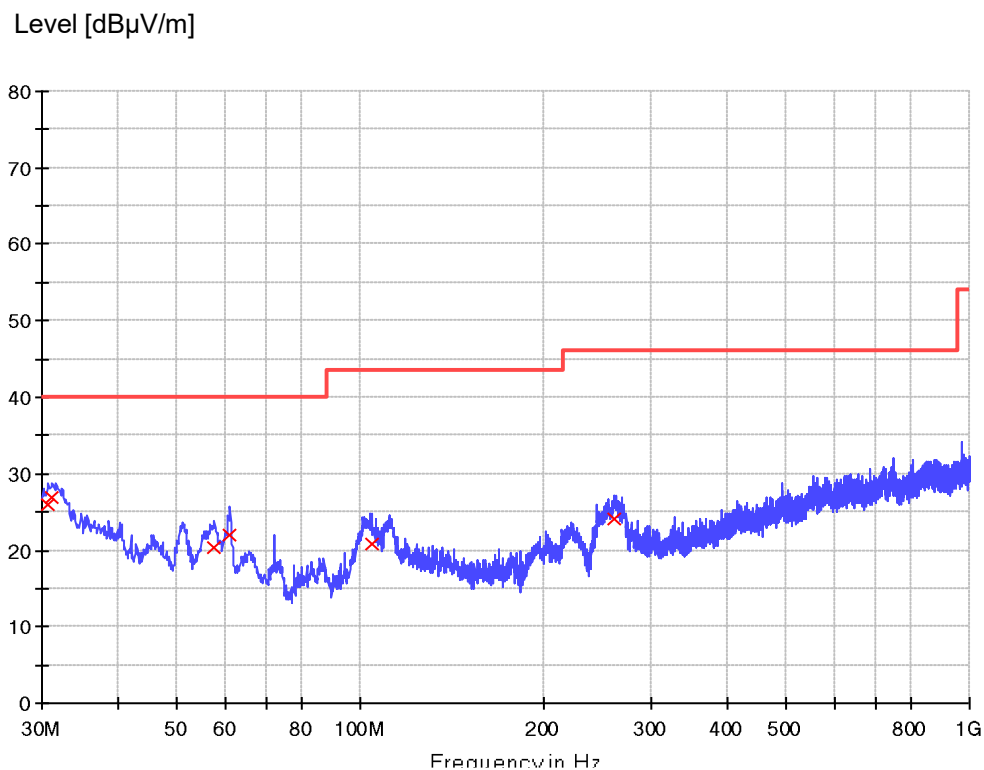
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.485000	22.2	1000.0	120.000	180.0	H	-56.0	25.2	17.8	40.0
31.697500	21.4	1000.0	120.000	210.0	H	-77.0	24.5	18.6	40.0
35.335000	19.2	1000.0	120.000	220.0	H	115.0	22.4	20.9	40.0
97.900000	19.0	1000.0	120.000	260.0	H	49.0	16.9	24.5	43.5
117.785000	16.5	1000.0	120.000	120.0	H	37.0	18.8	27.0	43.5
240.732500	18.0	1000.0	120.000	130.0	H	18.0	19.0	28.0	46.0

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Figure 4: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz)



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.727500	25.9	1000.0	120.000	120.0	V	-56.0	25.0	14.1	40.0
31.212500	26.9	1000.0	120.000	170.0	V	-14.0	24.8	13.1	40.0
57.645000	20.3	1000.0	120.000	110.0	V	29.0	12.9	19.7	40.0
61.161250	22.1	1000.0	120.000	130.0	V	32.0	12.6	17.9	40.0
104.083750	20.8	1000.0	120.000	110.0	V	116.0	18.0	22.7	43.5
260.981250	24.1	1000.0	120.000	100.0	V	-17.0	21.6	21.9	46.0

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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-C-195	EMI test receiver	ESR3	102794	Rohde & Schwarz	2025-08-02	2026-08-02
EMC-C-190	Artificial mains network	ENV432	101514	Rohde & Schwarz	2024-10-11	2025-10-11
EMC-C-366	Thermohygrometer	608-H1	2485149174	testo	2025-07-11	2026-07-11
EMC-S-028	EMI measurement software	EMC32-E+ (10.60.20)	100150	Rohde & Schwarz	N/A	N/A
EMC-C-001	3 m semi-anechoic chamber	SAC3	FJ129002	Frankonia	2023-12-03	2026-12-03
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-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2024-10-17	2025-10-17
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2025-06-05	2026-06-05
EMC-C-320	Thermohygrometer and barometer	622	39534423	testo	2025-07-29	2026-07-29
EMC-C-201	ESD generator	NSG 437	1770	Teseq	2025-03-11	2026-03-11
EMC-C-386	Coupling/decoupling network	CDN 3061-C16	087	Teseq	2024-10-17	2025-10-17
EMC-C-365	Thermohygrometer	608-H1	2485149145	testo	2025-07-11	2026-07-11
EMC-C-128	Multi-function immunity tester	NSG 3060	087	Teseq	2024-10-17	2025-10-17
EMC-C-149	Conducted immunity test system	NSG 4070B-75	34305	Teseq	2024-09-18	2025-09-18
EMC-C-012	Coupling/decoupling network	CDN M016	20810	Schaffner	2024-10-29	2025-10-29
EMC-C-160	Voltage dips simulator	CSS-20P3	1120P317150	Shanghai Skylark	2024-12-05	2025-12-05
EMC-C-184	40 dB dual-directional coupler	C5982	15370	Werlatone	2025-01-21	2026-01-21
EMC-C-096	Power amplifier	AS0206-50	1035578	MILMEGA	2024-12-05	2025-12-05
EMC-C-097	Broadband field meter	NBM-520/EF1891	C-0120/A0387	Narda	2025-07-01	2026-07-01
EMC-C-120	Thermohygrometer	608-H1	1241320264	testo	2025-06-05	2026-06-05
EMC-C-132	Fully anechoic chamber	FAC3plus	FJ139001	Frankonia	2023-12-03	2026-12-03
EMC-C-162	Average power sensor	NRP6AN	101102	Rohde & Schwarz	2025-07-29	2026-07-29
EMC-C-182	Power amplifier	AS0825-170	1085685	MILMEGA	2025-07-29	2026-07-29
EMC-C-185	40 dB dual-directional coupler	C6187	15381	Werlatone	2025-01-21	2026-01-21
EMC-C-194	Signal generator	SMB100A (40 GHz)	181256	Rohde & Schwarz	2024-12-10	2025-12-10
EMC-C-209	Power amplifier	NTWPA-00810500	22093259	Nanjing RFLIGHT	2024-10-17	2025-10-17

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EMC-NC-032	EMS antenna	HL 046	100039	Rohde & Schwarz	N/A	N/A
EMC-NC-055	Double ridged horn antenna	BBHA 9120 E	224	Schwarzbeck	N/A	N/A
EMC-S-033	EMS measurement software	EMC32-S (10.60.20)	100957	Rohde & Schwarz	N/A	N/A
EMC-C-163	Average power sensor	NRP6AN	101103	Rohde & Schwarz	2025-07-29	2026-07-29

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