

Prüfbericht-Nr.: <i>Test report no.:</i>	CN269112 001	Auftrags-Nr.: <i>Order no.:</i>	326172083	Seite 1 von 49 <i>Page 1 of 49</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	1288983	Auftragsdatum: <i>Order date:</i>	2026-02-03	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	Table Fan			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	E2598			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland EMC service			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2024 Class B ICES-003:2020			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-05-06 (A004269356-006)	Refer to the EUT photos file		
	2026-06-08 (A004301629-010)			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004269356-006 A004301629-010			
Prüfzeitraum: <i>Testing period:</i>	2026-05-27~2026-06-16			
Ort der Prüfung: <i>Place of testing:</i>	Refer to clause 1.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
	<i>Jessie Xu</i> Jessie Xu		<i>JiaYi Zhou</i> JiaYi Zhou	
Datum: <i>Date:</i>	2026-08-27		Ausstellungsdatum: <i>Issue date:</i> 2026-08-27	
Stellung / Position:	Project engineer		Stellung / Position: Authorizer	
Sonstiges / <i>Other:</i>	FCC ID: FHO-E2598 Test Firm Name: TÜV 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 specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: CN269112 001
Test report no.:

Seite 2 von 49
Page 2 of 49

Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i>
<i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

Prüfbericht - Nr.: CN269112 001

Test Report No.:

Seite 3 von 49

Page 3 of 49

Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN269112 001	2026-08-27	Initial release.

Contents

1	TEST SITES	5
1.1	TEST FACILITIES	5
2	GENERAL PRODUCT INFORMATION	6
2.1	PRODUCT FUNCTION AND INTENDED USE	6
2.2	RATINGS AND SYSTEM DETAILS	6
2.3	INDEPENDENT OPERATION MODES	6
2.4	DESCRIPTION OF INTERCONNECTING CABLES.....	7
2.5	NOISE GENERATING AND NOISE SUPPRESSING PARTS	7
2.6	HIGHEST FREQUENCY GENERATED OR USED IN THE DEVICE OR ON WHICH THE DEVICE OPERATES OR TUNES	7
2.7	SUBMITTED DOCUMENTS.....	7
3	TEST SET-UP AND OPERATION MODES	8
3.1	PRINCIPLE OF CONFIGURATION SELECTION	8
3.2	EQUIPMENT AND CABLE ARRANGEMENT.....	8
3.3	TEST SOFTWARE	8
3.4	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	9
3.5	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	9
4	CONFORMITY DECISION RULE	10
5	TEST RESULTS EMISSION	11
5.1	EMISSION IN THE FREQUENCY RANGE UP TO 30 MHz.....	11
5.1.1	Conducted emission	11
5.2	EMISSION IN THE FREQUENCY RANGE ABOVE 30 MHz.....	29
5.2.1	Radiated emission (30-1000 MHz).....	29
6	PHOTOGRAPHS OF THE TEST SET-UP.....	47
7	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	48
8	LIST OF FIGURES.....	49

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 test equipment used 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 compact USB-powered desktop/portable fan with multi-speed control functions. The product is powered via a standard USB-C port (connected to a computer, laptop, or certified USB power adapter) and features a built-in battery. It is designed for personal local cooling.

2.2 Ratings and System Details

Rated Input : DC 5 V, 2 A max
Rechargeable 18650 Li-ion : 2600 mAh
Battery Capacity
Protection class : III

The product incorporates two distinct configurations of DC brushless motors and rechargeable batteries respectively. Accordingly, full EMC tests were performed on two representative samples, designated Sample #1 and Sample #2.

The detailed hardware specifications for each test sample are documented as follows:

No.	DC brushless motor	Battery
Sample #1	Manufacture: Dongguan Yiwei Electronics Co., Ltd. Model: YW-004 Technical data: 9 Vdc, 0.45 A, 2700 RPM, Class B	Manufacture: IKEA of Sweden AB Model: ICBL7.2-18-B1 Technical data :7.2 Vdc, 2600 mAh, 18.72 Wh Input: DC 8.4 V/2.0 A max (4-pin connector) Class III
Sample #2	Manufacture: Kee Tat innovative technology holdings ltd. Model: LVDOU-F-30 Technical data: 8 Vdc, 0.4 A, 2300 RPM, Class B	Manufacture: IKEA of Sweden AB Model: ICBL7.2-18-USBC-B1 Technical data: 7.2 Vdc, 2600 mAh, 18.72 Wh Input: DC 5 V/2.0 A max (Type-c USB) DC 8.4 V/2.0 A max (4-pin connector) Class III

2.3 Independent Operation Modes

The basic operation modes are: “Charging Mode”, “Operation Mode” and “Power-off Mode”
The test modes are as below:

Test Mode No.	Operating mode	Detailed description
1	High-Speed Fan + Simultaneous Battery Charging with USB charger	The EUT is connected to a USB charger source via USB type C port. The fan is set to high and medium speed
2	Medium-Speed Fan + Simultaneous Battery Charging with USB charger	

Prüfbericht - Nr.: CN269112 001**Seite 7 von 49**

Test Report No.:

Page 7 of 49

3	High-Speed Fan + Simultaneous Battery Charging with laptop	The EUT is connected to a USB port of laptop via USB type C port. The fan is set to high and medium speed
4	Medium-Speed Fan + Simultaneous Battery Charging with laptop	
5	High-Speed Fan + Battery-powered	Fan powered by battery, running at high and medium speed.
6	Medium-Speed Fan + Battery-powered	

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 8 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.

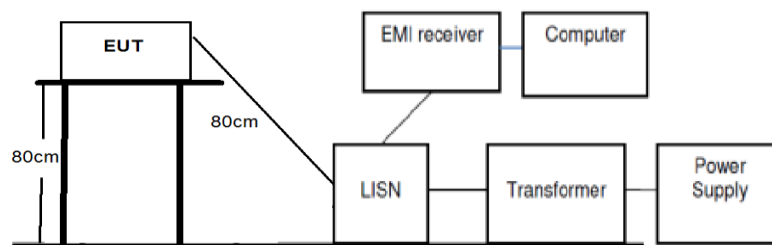
Refer to the related paragraph of this report.

The sequence of testing:

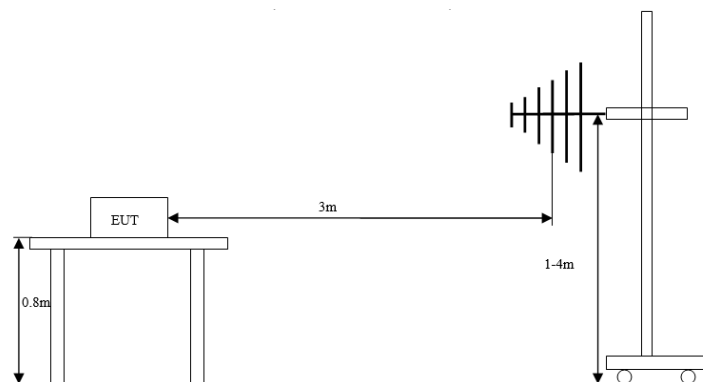
1. Conducted emission tests were performed on 2026-06-03~2026-06-15.
2. Radiated emission tests were performed on 2026-05-27~2026-06-16.

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

During the tests, no test software was used.

Prüfbericht - Nr.: CN269112 001

Test Report No.:

Seite 9 von 49

Page 9 of 49

3.4 Special Accessories and Auxiliary Equipment

During the tests, the USB charger (model: E2501-NA, brand: IKEA) and laptop (model: T41, brand: ThinkPad) were used as the power source.

3.5 Countermeasures to achieve EMC Compliance

During tests, no special countermeasure was employed to achieve the requirement.

4 Conformity Decision Rule

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

5 Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted emission

Result:		Passed
Date of testing	: 2026-06-03~2026-06-15	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, 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 for USB charger and adapter of laptop.	
EUT's configuration	: Sample #1 and Sample #2	
Operational mode	: Mode 1~ Mode 4 as defined in clause 2.3	
Ambient condition	: Temperature: 24.6 °C; Relative humidity: 43.4 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 9.43 dB at 0.183750 MHz. The margin is higher than expanded measurement uncertainty.	
Test setup photo	: Photograph 1 of Attachment 3	

The measurement setup was made according to ANSI C63.4-2014 in a shielded room. The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with CISPR 16-1 series standards.

The tested object was set-up on a wooden support. The EUT was set 0.8 m away from the AMN. The cord longer than necessary to be connected to the AMN was folded forth and back parallel so as to form a bundle with a length between 0.3 m and 0.4 m. The disturbance voltage test was performed on the neutral line and phase line of the power supply of the EUT respectively.

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

Prüfbericht - Nr.: CN269112 001

Test Report No.:

Seite 12 von 49

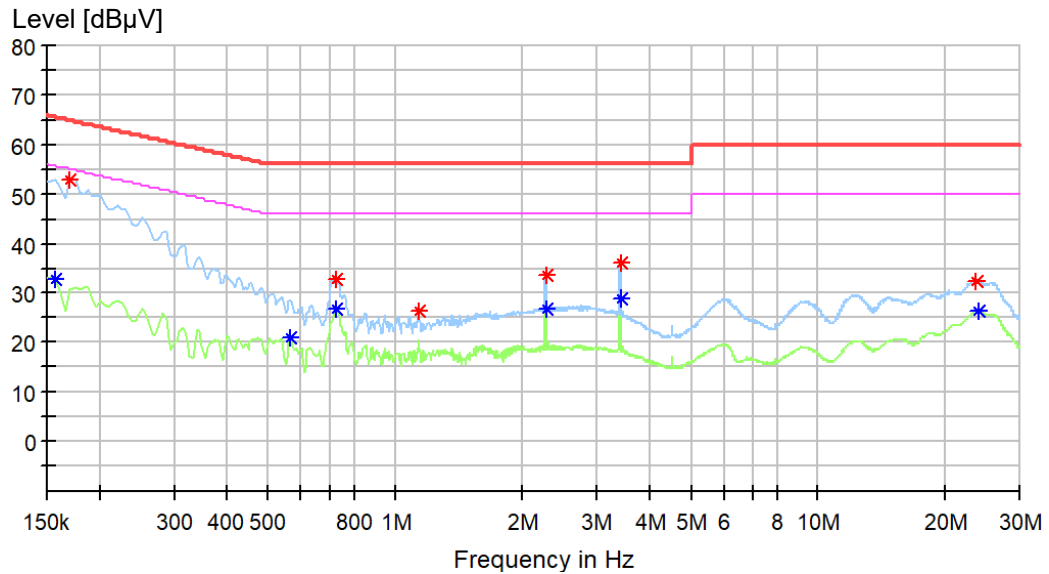
Page 12 of 49

Notes on following tables of conducted emission results and conversions:

Level (dB μ V): final measurement results by using quasi-peak detector and average detector

Transd (dB): transducer factor including cable loss, insertion loss of artificial mains network and gain of pre-amplifier (if used)

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

Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #1, mode 1


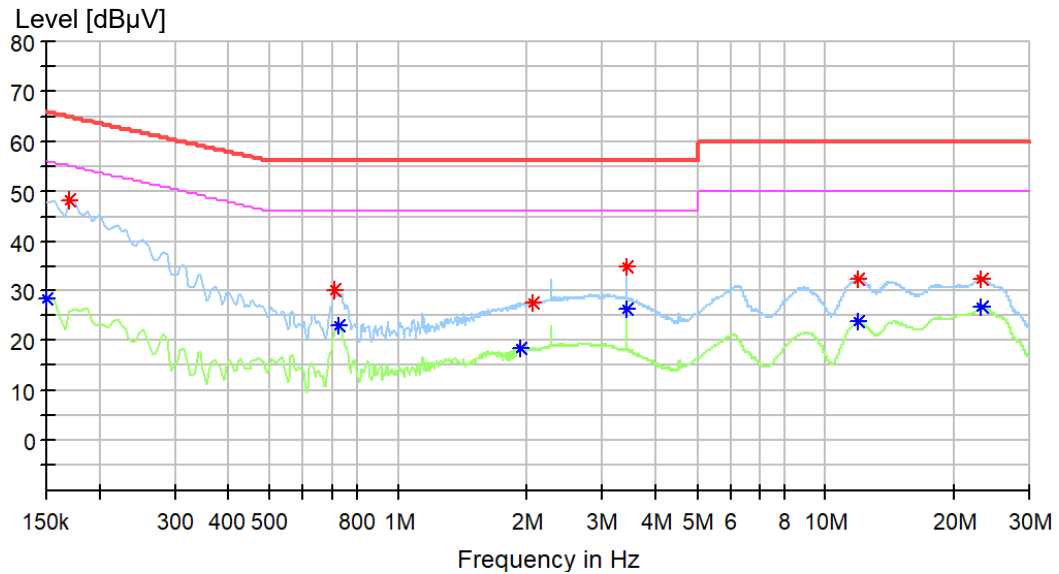
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170250	52.96	64.95	11.99	L1	10.4
0.728250	32.84	56.00	23.16	L1	10.4
1.137750	26.55	56.00	29.45	L1	10.4
2.271750	33.49	56.00	22.51	L1	10.4
3.405750	36.00	56.00	20.00	L1	10.4
23.601750	32.34	60.00	27.66	L1	11.3

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.156750	32.81	55.63	22.82	L1	10.4
0.566250	20.96	46.00	25.04	L1	10.4
0.723750	26.66	46.00	19.34	L1	10.4
2.271750	26.85	46.00	19.15	L1	10.4
3.405750	28.82	46.00	17.18	L1	10.4
23.844750	26.47	50.00	23.53	L1	11.3

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

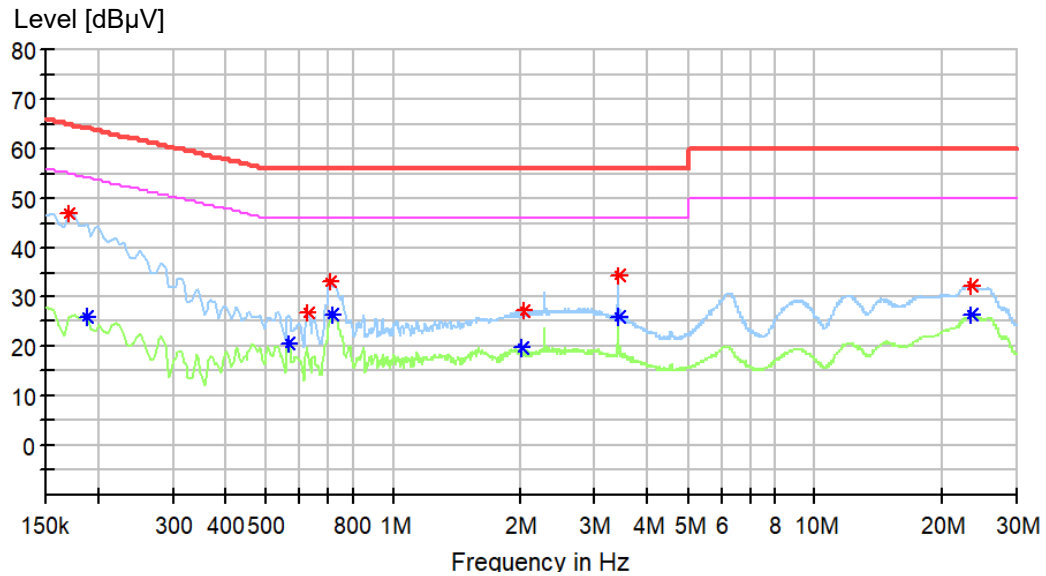


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170250	48.30	64.95	16.64	N	10.3
0.710250	30.28	56.00	25.72	N	10.3
2.051250	27.86	56.00	28.14	N	10.4
3.419250	34.91	56.00	21.09	N	10.4
11.982750	32.20	60.00	27.80	N	10.9
23.160750	32.19	60.00	27.81	N	11.4

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	28.55	56.00	27.45	N	10.4
0.723750	23.06	46.00	22.94	N	10.3
1.934250	18.65	46.00	27.35	N	10.4
3.419250	26.29	46.00	19.71	N	10.4
11.865750	23.86	50.00	26.14	N	10.9
23.286750	26.81	50.00	23.19	N	11.4

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #1, mode 2


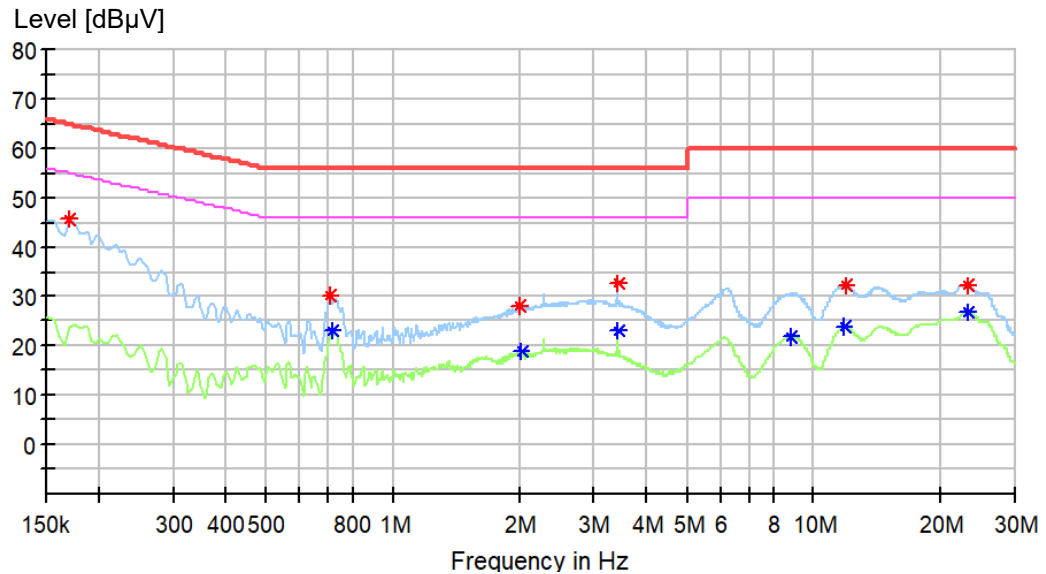
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.170250	47.12	64.95	17.82	L1	10.4
0.629250	27.02	56.00	28.98	L1	10.4
0.705750	33.28	56.00	22.72	L1	10.4
2.033250	27.29	56.00	28.71	L1	10.4
3.419250	34.21	56.00	21.79	L1	10.4
23.448750	32.20	60.00	27.80	L1	11.3

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.188250	26.15	54.11	27.96	L1	10.4
0.566250	20.65	46.00	25.35	L1	10.4
0.719250	26.38	46.00	19.62	L1	10.4
2.010750	19.60	46.00	26.40	L1	10.4
3.419250	26.12	46.00	19.88	L1	10.4
23.480250	26.29	50.00	23.71	L1	11.3

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #1, mode 2



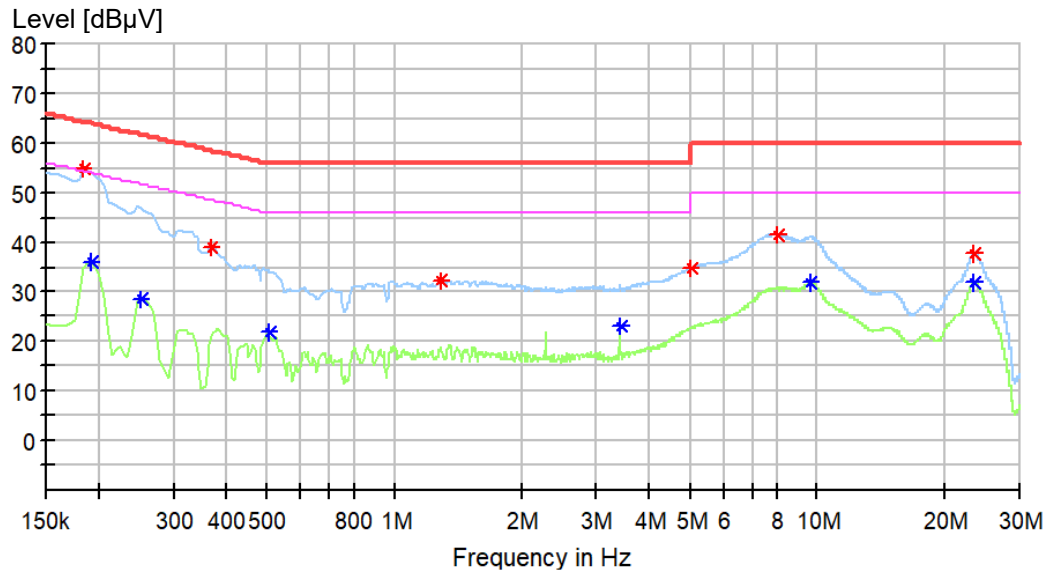
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.170250	45.59	64.95	19.36	N	10.3
0.710250	30.29	56.00	25.71	N	10.3
1.992750	28.01	56.00	27.99	N	10.4
3.419250	32.58	56.00	23.42	N	10.4
11.870250	32.19	60.00	27.81	N	10.9
23.039250	32.30	60.00	27.70	N	11.4

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.719250	22.88	46.00	23.12	N	10.3
2.015250	18.81	46.00	27.19	N	10.4
3.419250	22.89	46.00	23.11	N	10.4
8.792250	21.83	50.00	28.17	N	10.7
11.829750	23.70	50.00	26.30	N	10.9
23.097750	26.72	50.00	23.28	N	11.4

Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #1, mode 3



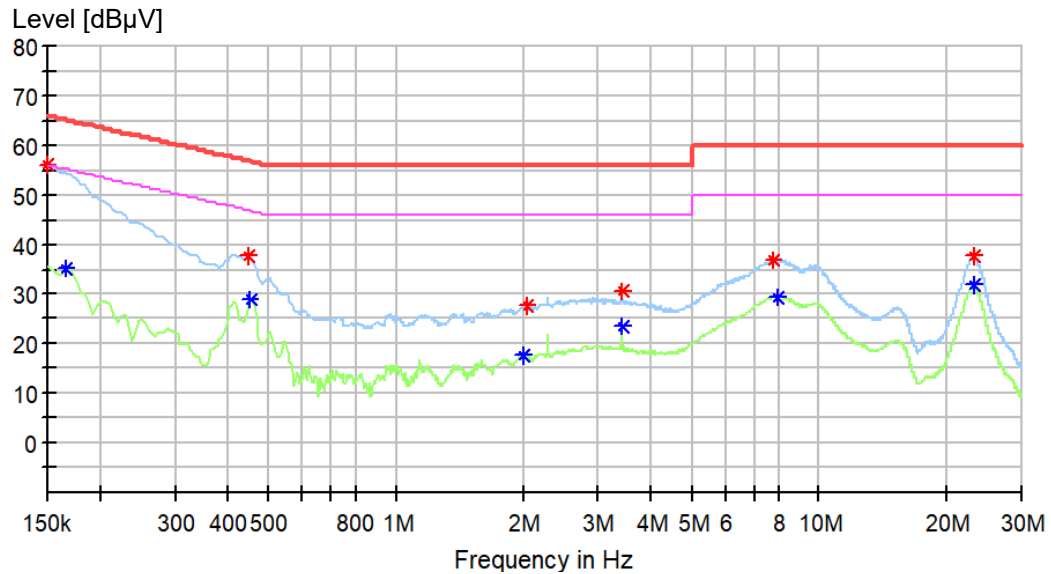
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.183750	54.88	64.31	9.43	L1	10.4
0.368250	39.14	58.54	19.40	L1	10.4
1.281750	32.07	56.00	23.93	L1	10.4
4.998750	34.80	56.00	21.20	L1	10.4
8.013750	41.58	60.00	18.42	L1	10.7
23.457750	37.93	60.00	22.07	L1	11.3

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.192750	36.01	53.92	17.91	L1	10.4
0.251250	28.49	51.72	23.22	L1	10.4
0.503250	21.77	46.00	24.23	L1	10.4
3.414750	23.12	46.00	22.88	L1	10.4
9.602250	31.69	50.00	18.31	L1	10.8
23.493750	32.02	50.00	17.98	L1	11.3

Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #1, mode 3



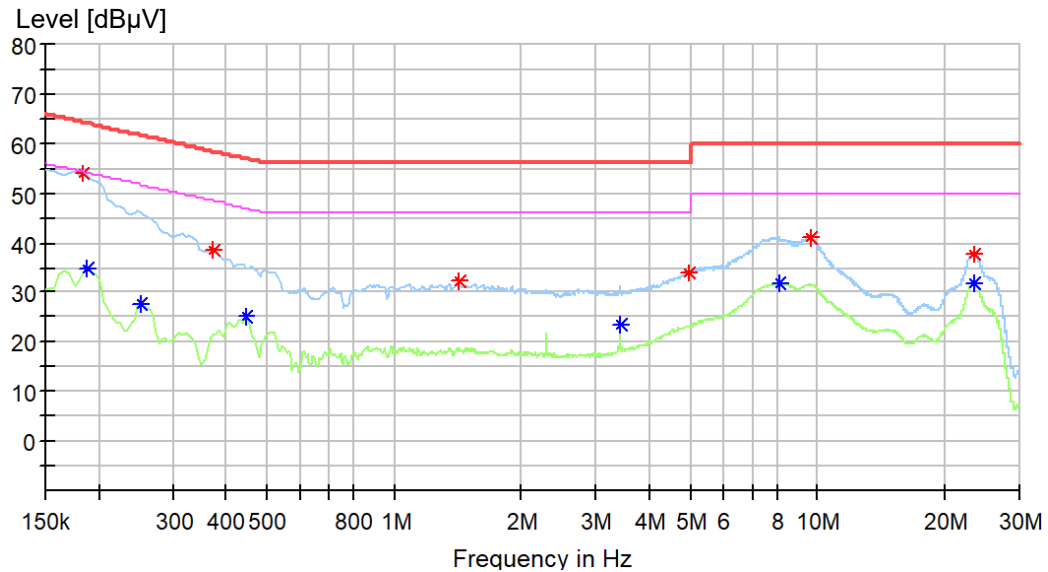
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	56.01	66.00	9.99	N	10.4
0.444750	37.75	56.97	19.22	N	10.3
2.033250	27.68	56.00	28.32	N	10.4
3.414750	30.45	56.00	25.55	N	10.4
7.806750	36.93	60.00	23.07	N	10.6
23.088750	37.64	60.00	22.36	N	11.4

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.165750	35.25	55.17	19.92	N	10.3
0.453750	28.98	46.81	17.82	N	10.3
1.992750	17.81	46.00	28.19	N	10.4
3.414750	23.57	46.00	22.43	N	10.4
7.955250	29.48	50.00	20.52	N	10.6
23.088750	31.72	50.00	18.28	N	11.4

Figure 7: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #1, mode 4



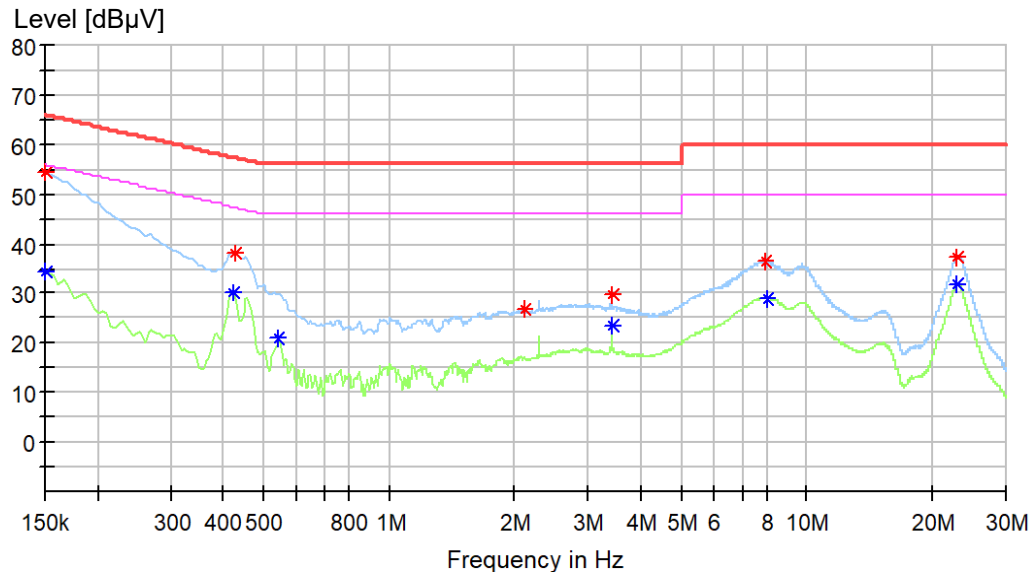
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.183750	53.97	64.31	10.34	L1	10.4
0.372750	38.62	58.44	19.82	L1	10.4
1.425750	32.11	56.00	23.89	L1	10.4
4.976250	34.12	56.00	21.88	L1	10.4
9.593250	41.21	60.00	18.79	L1	10.8
23.435250	37.87	60.00	22.13	L1	11.3

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.188250	34.67	54.11	19.44	L1	10.4
0.251250	27.54	51.72	24.18	L1	10.4
0.444750	25.12	46.97	21.85	L1	10.4
3.419250	23.54	46.00	22.46	L1	10.4
8.103750	31.85	50.00	18.15	L1	10.7
23.376750	31.95	50.00	18.05	L1	11.3

Figure 8: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #1, mode 4

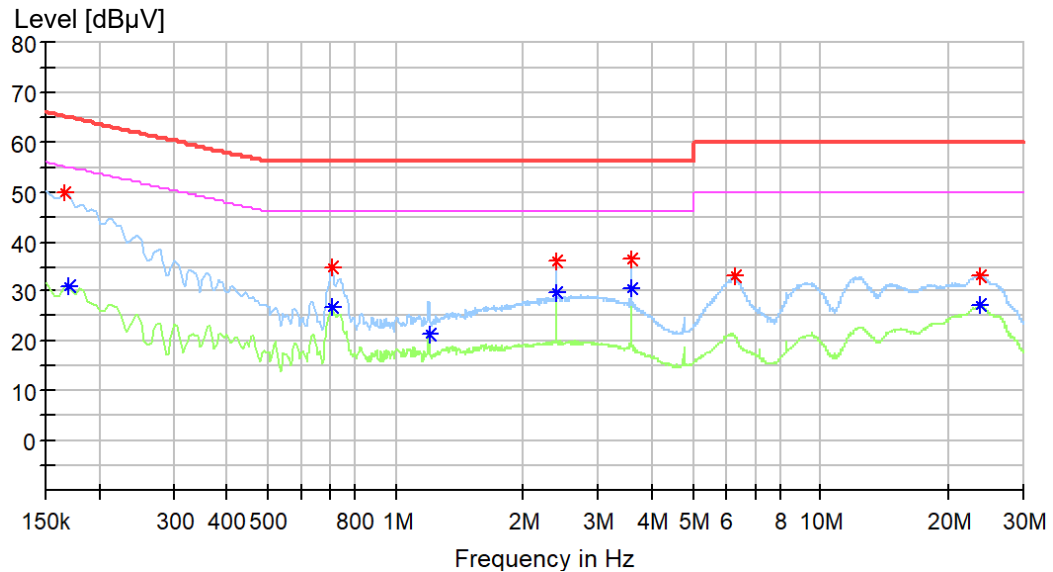


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	54.43	66.00	11.57	N	10.4
0.426750	38.31	57.32	19.00	N	10.3
2.114250	26.76	56.00	29.24	N	10.4
3.419250	29.82	56.00	26.18	N	10.4
7.928250	36.36	60.00	23.64	N	10.6
23.030250	37.50	60.00	22.50	N	11.4

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	34.22	56.00	21.78	N	10.4
0.422250	30.16	47.40	17.25	N	10.3
0.543750	20.77	46.00	25.23	N	10.3
3.419250	23.32	46.00	22.68	N	10.4
8.067750	29.10	50.00	20.90	N	10.7
23.030250	31.73	50.00	18.27	N	11.4

Figure 9: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #2, mode 1


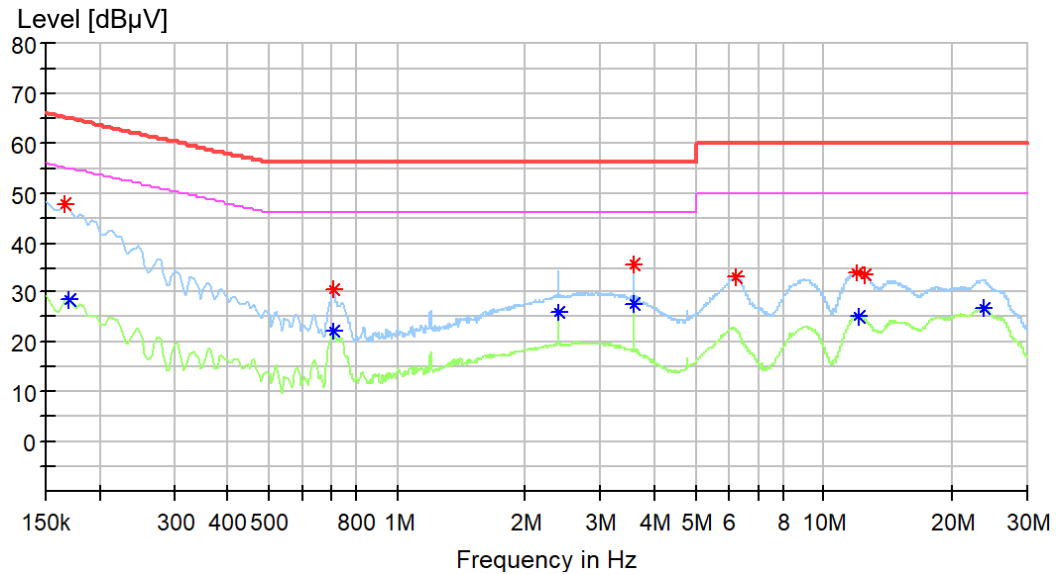
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.165750	49.94	65.17	15.23	L1	10.4
0.705750	34.88	56.00	21.12	L1	10.4
2.388750	36.11	56.00	19.89	L1	10.4
3.581250	36.63	56.00	19.37	L1	10.4
6.258750	32.95	60.00	27.05	L1	10.5
23.777250	33.11	60.00	26.89	L1	11.3

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170250	30.87	54.95	24.08	L1	10.4
0.705750	26.82	46.00	19.18	L1	10.4
1.196250	21.47	46.00	24.53	L1	10.4
2.388750	29.69	46.00	16.31	L1	10.4
3.581250	30.58	46.00	15.42	L1	10.4
23.610750	27.20	50.00	22.80	L1	11.3

Figure 10: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #2, mode 1

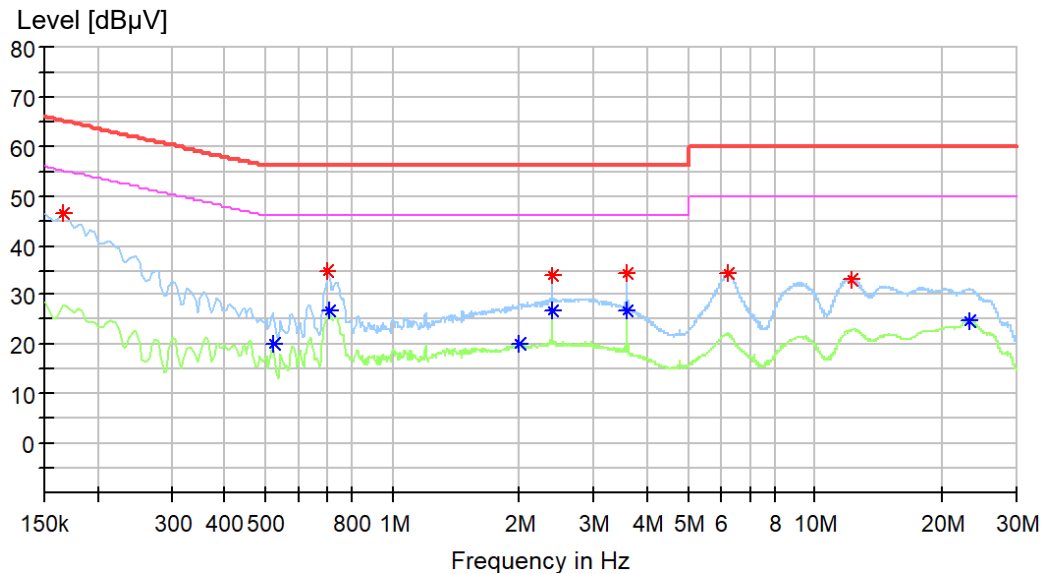


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.165750	47.88	65.17	17.29	N	10.3
0.710250	30.67	56.00	25.33	N	10.3
3.581250	35.79	56.00	20.21	N	10.4
6.204750	33.30	60.00	26.70	N	10.5
11.973750	34.13	60.00	25.87	N	10.9
12.455250	33.64	60.00	26.36	N	10.9

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170250	28.46	54.95	26.49	N	10.3
0.705750	22.30	46.00	23.70	N	10.3
2.388750	26.08	46.00	19.92	N	10.4
3.581250	27.56	46.00	18.44	N	10.4
12.018750	25.24	60.00	24.76	N	10.9
23.619750	26.94	50.00	23.06	N	11.4

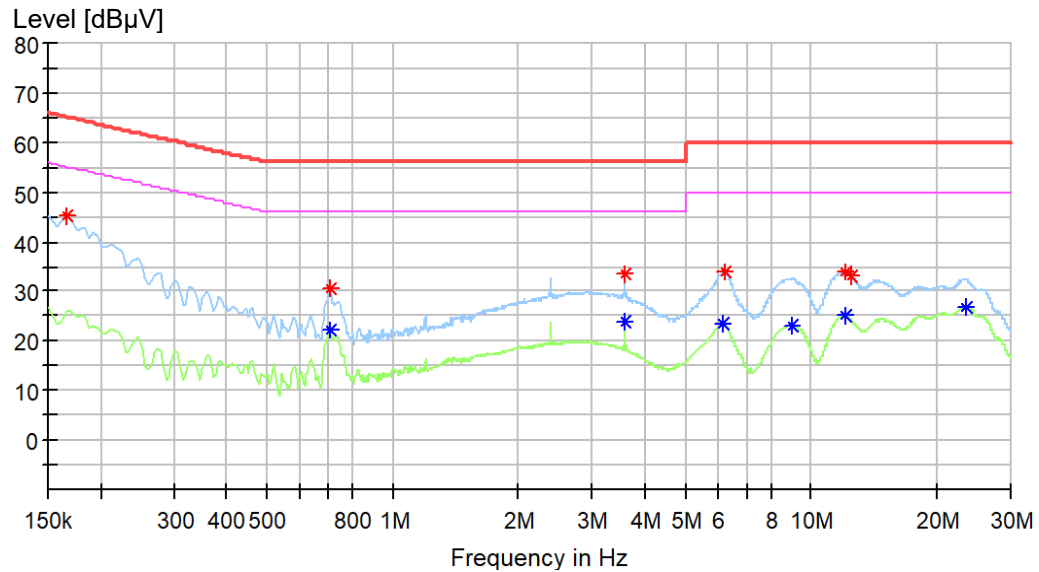
Figure 11: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #2, mode 2


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.165750	46.42	65.17	18.75	L1	10.4
0.701250	34.82	56.00	21.18	L1	10.4
2.388750	33.89	56.00	22.11	L1	10.4
3.585750	34.20	56.00	21.80	L1	10.4
6.236250	34.46	60.00	25.54	L1	10.5
12.257250	33.32	60.00	26.68	L1	10.9

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.521250	20.28	46.00	25.72	L1	10.4
0.705750	26.95	46.00	19.05	L1	10.4
2.001750	20.07	46.00	25.93	L1	10.4
2.388750	26.81	46.00	19.19	L1	10.4
3.585750	26.94	46.00	19.06	L1	10.4
23.273250	24.84	50.00	25.16	L1	11.3

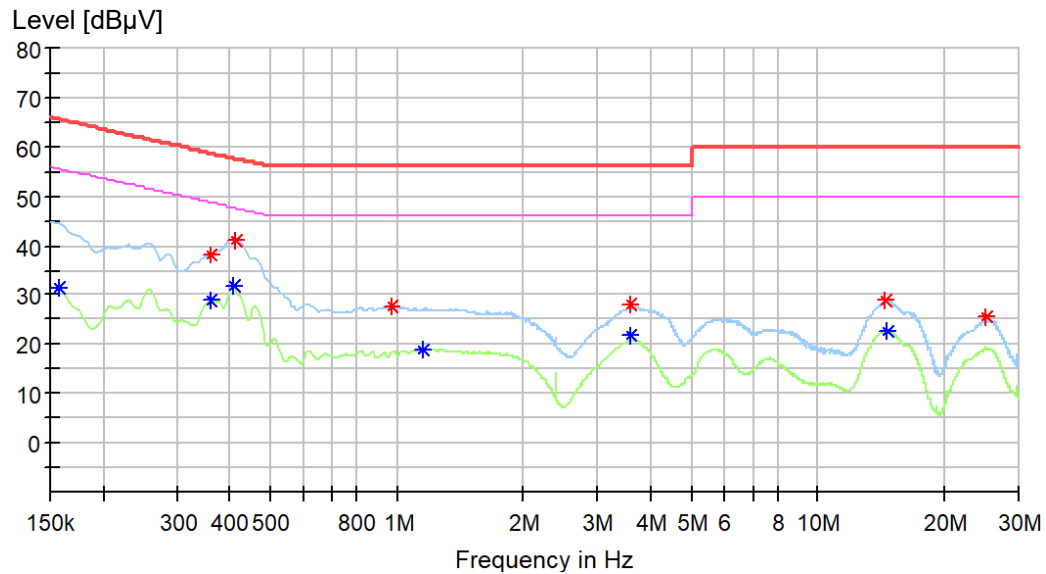
Figure 12: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #2, mode 2


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.165750	45.24	65.17	19.93	N	10.3
0.705750	30.70	56.00	25.30	N	10.3
3.585750	33.35	56.00	22.65	N	10.4
6.209250	33.95	60.00	26.05	N	10.5
12.027750	33.94	60.00	26.06	N	10.9
12.410250	33.32	60.00	26.68	N	10.9

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.705750	22.31	46.00	23.69	N	10.3
3.585750	24.09	46.00	21.91	N	10.4
6.132750	23.50	50.00	26.50	N	10.5
9.048750	23.19	50.00	26.81	N	10.7
12.018750	25.13	50.00	24.87	N	10.9
23.295750	26.92	50.00	23.08	N	11.4

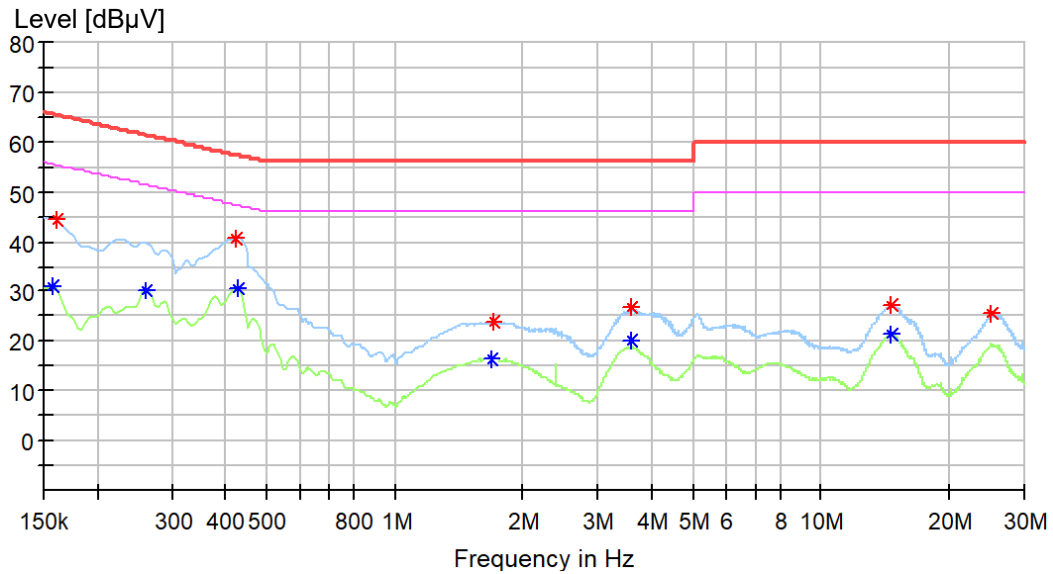
Figure 13: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #2, mode 3


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.359250	38.28	58.75	20.47	L1	10.4
0.413250	40.91	57.58	16.67	L1	10.4
0.971250	27.72	56.00	28.28	L1	10.4
3.576750	28.14	56.00	27.86	L1	10.4
14.430750	28.76	60.00	31.24	L1	11.0
25.019250	25.70	60.00	34.30	L1	11.4

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.156750	31.44	55.63	24.19	L1	10.4
0.359250	28.91	48.75	19.83	L1	10.4
0.408750	31.73	47.67	15.95	L1	10.4
1.151250	18.99	46.00	27.01	L1	10.4
3.576750	21.78	46.00	24.22	L1	10.4
14.669250	22.74	50.00	27.26	L1	11.0

Figure 14: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #2, mode 3


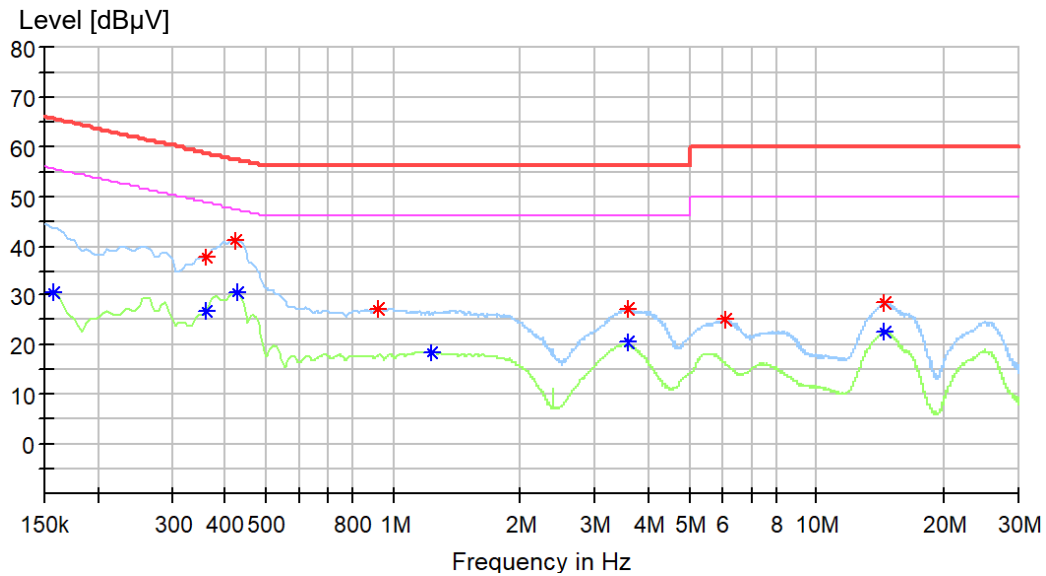
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.161250	44.42	65.40	20.98	N	10.3
0.422250	40.79	57.40	16.61	N	10.3
1.695750	23.89	56.00	32.11	N	10.4
3.576750	27.01	56.00	28.99	N	10.4
14.664750	27.14	60.00	32.86	N	10.9
25.041750	25.78	60.00	34.22	N	11.5

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.156750	30.91	55.63	24.73	N	10.3
0.260250	30.03	51.42	21.39	N	10.3
0.426750	30.70	47.32	16.61	N	10.3
1.682250	16.47	46.00	29.53	N	10.4
3.576750	20.23	46.00	25.77	N	10.4
14.583750	21.22	50.00	28.78	N	10.9

Figure 15: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #2, mode 4



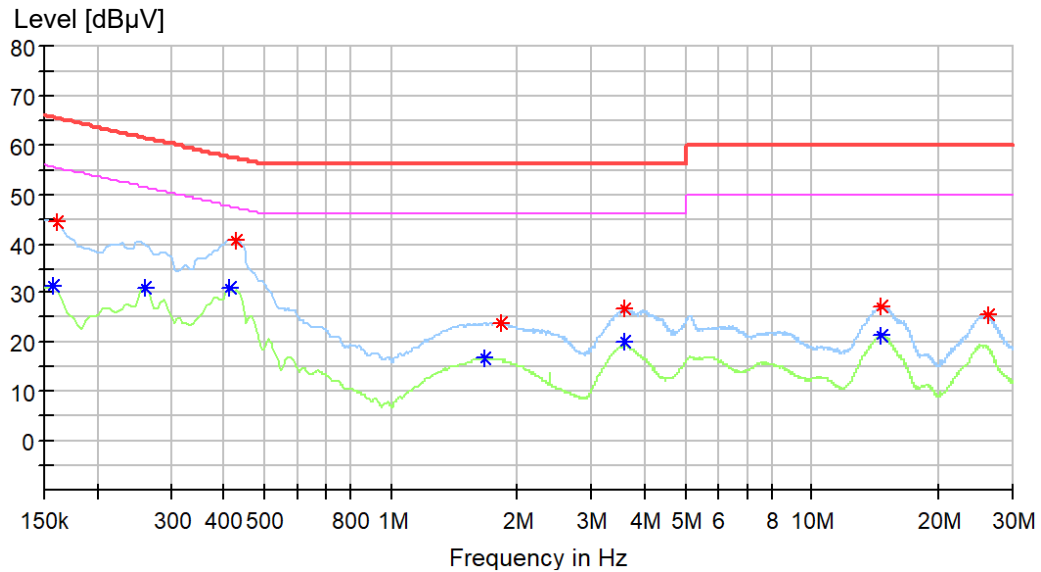
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.359250	37.85	58.75	20.90	L1	10.4
0.422250	41.17	57.40	16.23	L1	10.4
0.921750	27.38	56.00	28.62	L1	10.4
3.576750	27.38	56.00	28.62	L1	10.4
6.060750	24.96	60.00	35.04	L1	10.5
14.502750	28.59	60.00	31.41	L1	11.0

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.156750	30.57	55.63	25.07	L1	10.4
0.359250	26.96	48.75	21.79	L1	10.4
0.426750	30.68	47.32	16.64	L1	10.4
1.232250	18.56	46.00	27.44	L1	10.4
3.576750	20.57	46.00	25.43	L1	10.4
14.444250	22.56	50.00	27.44	L1	11.0

Figure 16: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #2, mode 4



Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.161250	44.27	65.40	21.13	N	10.3
0.426750	40.57	57.32	16.75	N	10.3
1.812750	24.08	56.00	31.92	N	10.4
3.576750	26.90	56.00	29.10	N	10.4
14.678250	27.17	60.00	32.83	N	10.9
26.220750	25.38	60.00	34.62	N	11.5

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.156750	31.24	55.63	24.40	N	10.3
0.260250	30.96	51.42	20.46	N	10.3
0.413250	30.85	47.58	16.73	N	10.3
1.673250	16.72	46.00	29.28	N	10.4
3.576750	19.94	46.00	26.06	N	10.4
14.570250	21.27	50.00	28.73	N	10.9

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emission (30-1000 MHz)

Result:	Passed
----------------	---------------

Date of testing	: 2026-05-27~2026-06-16
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, 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): 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)
Bandwidth of EMI receiver for final measurement	: 120 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Semi-anechoic chamber
Input voltage	: AC 120 V, 60 Hz for USB charger 2600 mAh for battery-powered
EUT's configuration	: Sample #1 and Sample #2
Operational mode	: Mode 1~ 2 & Mode 5~6 as defined in clause 2.3
Ambient condition	: Temperature: 25.4 °C; Relative humidity: 44.6 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 6.2 dB at 299.538750 MHz. The margin is higher than expanded measurement uncertainty.
Test setup photo	: Photograph 2 of Attachment 3

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

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

Prüfbericht - Nr.: CN269112 001

Seite 30 von 49

Test Report No.:

Page 30 of 49

Notes on following tables of radiated emission results and conversions:

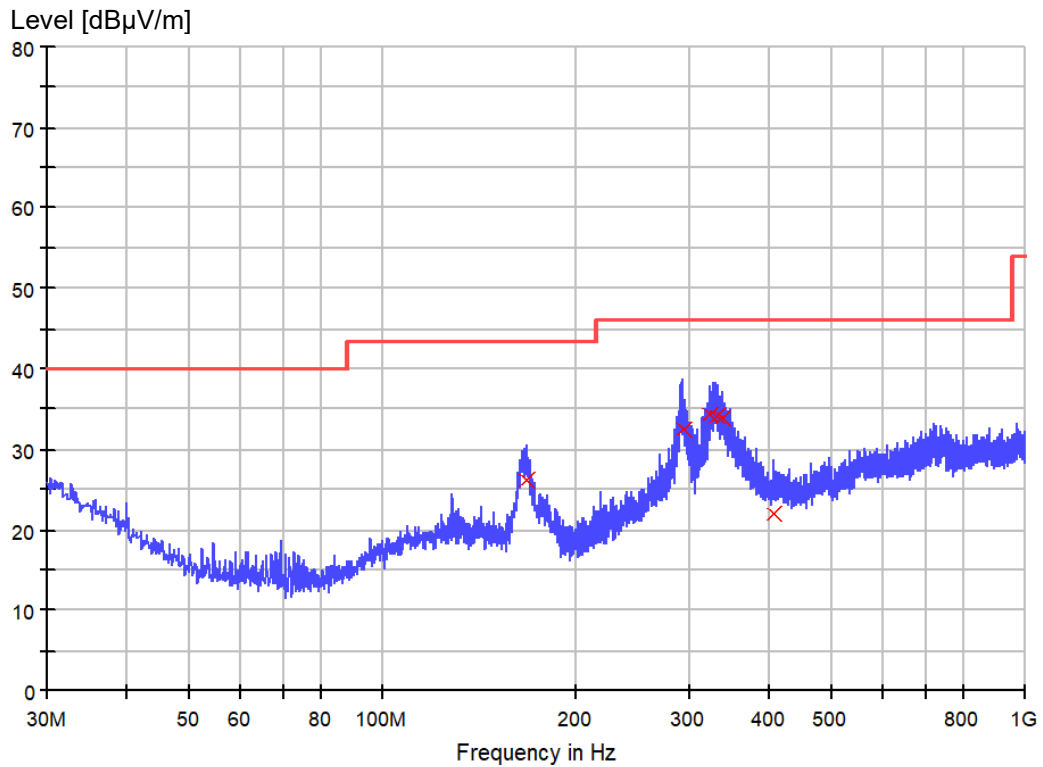
QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector

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: The FCC 47 CFR Part 15, Subpart B:2024 is stricter than ICES-003:2020 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

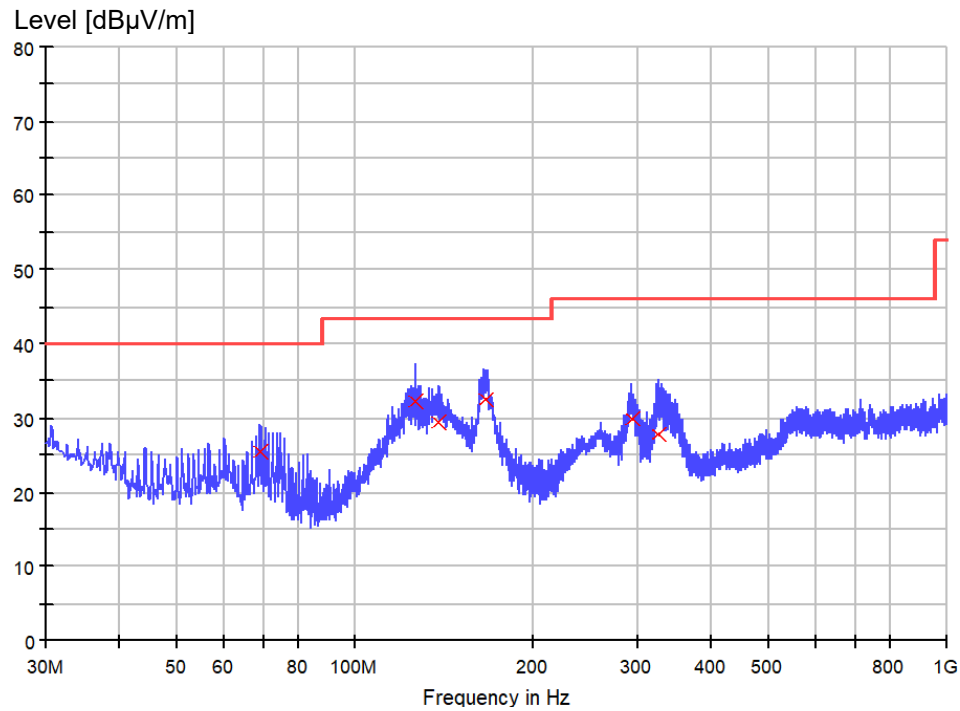
Figure 17: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #1, mode 1



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)
167.497500	26.3	120.000	122.0	H	-34.0	16.4	17.3	43.5
292.627500	32.6	120.000	104.0	H	-167.0	20.2	13.4	46.0
322.212500	34.5	120.000	149.0	H	168.0	21.2	11.5	46.0
329.245000	34.1	120.000	192.0	H	51.0	21.4	11.9	46.0
337.005000	33.9	120.000	103.0	H	73.0	21.0	12.1	46.0
407.087500	22.1	120.000	105.0	H	153.0	23.4	23.9	46.0

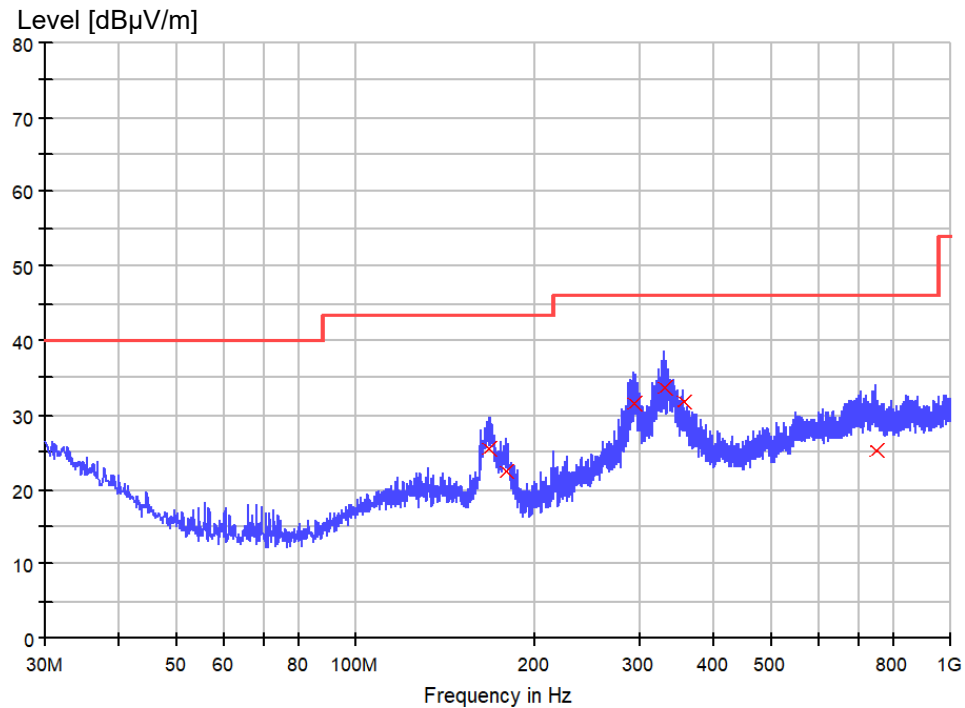
Figure 18: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #1, mode 1



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)
69.285000	25.6	120.000	175.0	V	-110.0	12.8	14.4	40.0
126.272500	32.3	120.000	125.0	V	97.0	18.7	11.2	43.5
138.761250	29.4	120.000	200.0	V	117.0	18.1	14.1	43.5
165.800000	32.5	120.000	134.0	V	-168.0	16.6	11.0	43.5
294.325000	29.9	120.000	108.0	V	131.0	20.3	16.1	46.0
325.971250	27.9	120.000	164.0	V	113.0	21.3	18.1	46.0

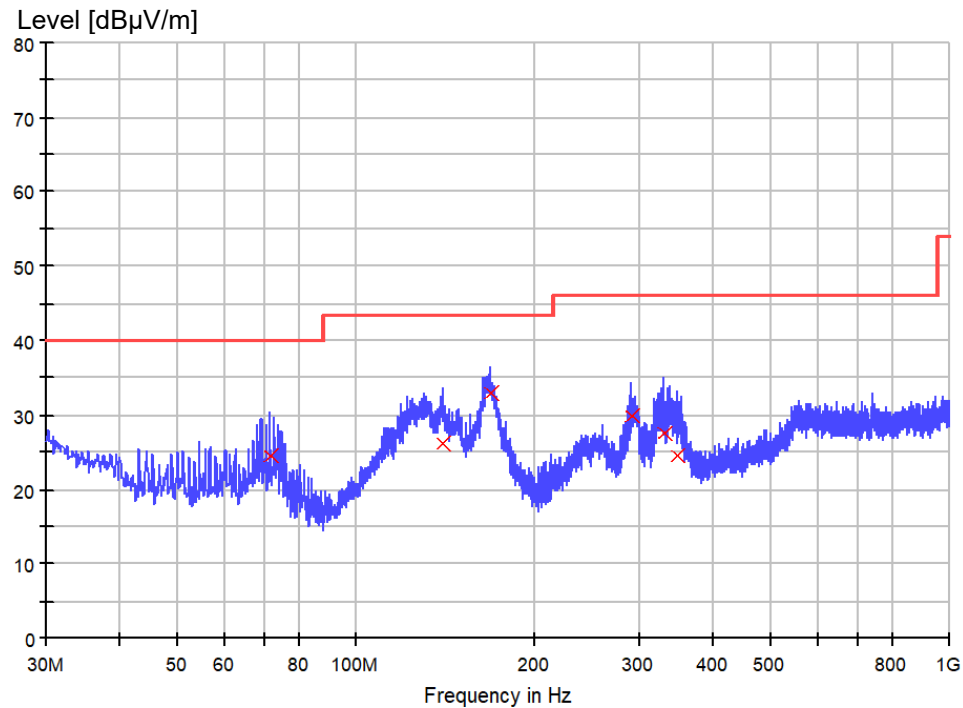
Figure 19: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #1, mode 2



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)
167.255000	25.6	120.000	195.0	H	-8.0	16.5	17.9	43.5
178.531250	22.4	120.000	128.0	H	26.0	16.1	21.1	43.5
293.718750	31.6	120.000	102.0	H	71.0	20.3	14.4	46.0
329.730000	33.7	120.000	144.0	H	-4.0	21.4	12.3	46.0
354.950000	31.7	120.000	131.0	H	-29.0	21.9	14.3	46.0
750.467500	25.3	120.000	176.0	H	-81.0	28.4	20.7	46.0

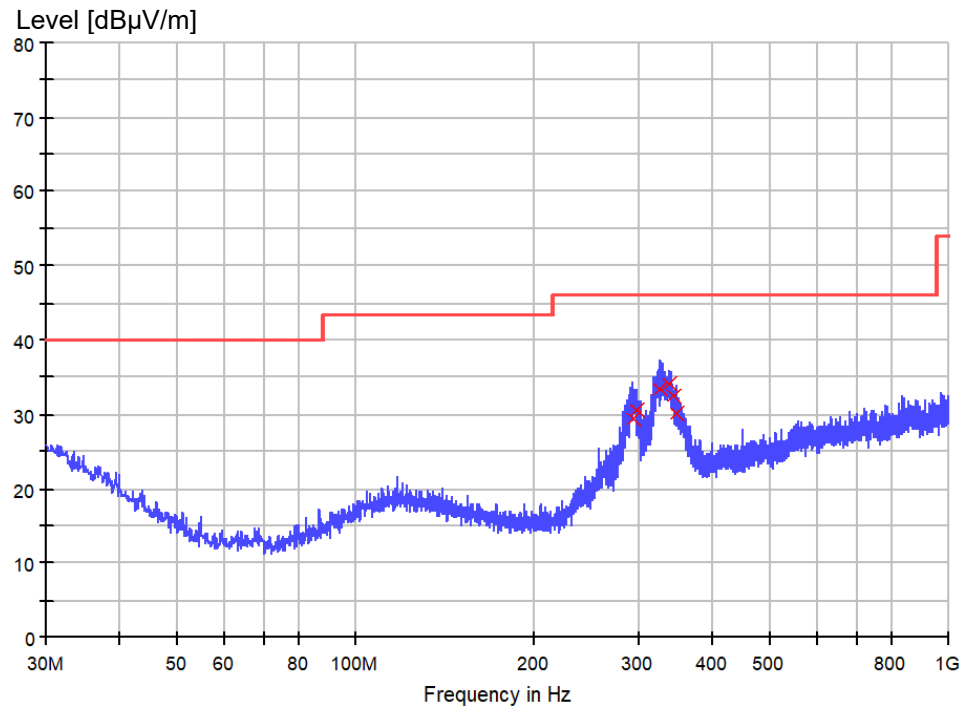
Figure 20: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #1, mode 2



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)
71.588750	24.6	120.000	171.0	V	-78.0	12.9	15.4	40.0
139.852500	26.1	120.000	170.0	V	59.0	18.0	17.4	43.5
168.346250	33.0	120.000	189.0	V	-26.0	16.4	10.5	43.5
292.385000	29.9	120.000	122.0	V	176.0	20.2	16.1	46.0
330.821250	27.7	120.000	189.0	V	115.0	21.4	18.3	46.0
347.068750	24.6	120.000	125.0	V	109.0	21.3	21.4	46.0

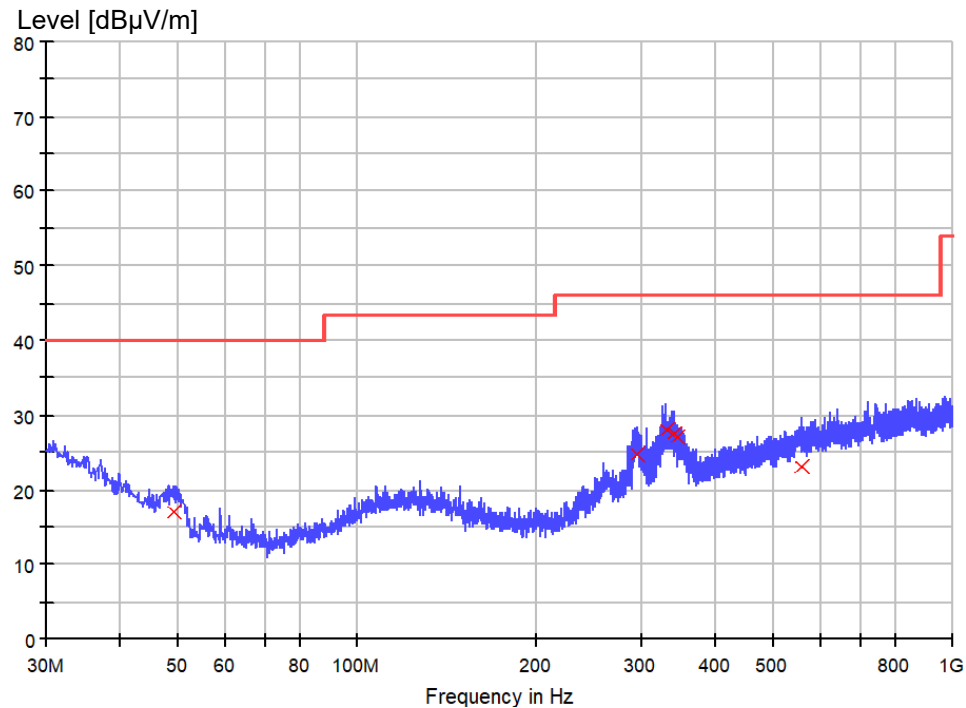
Figure 21: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #1, mode 5



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
292.748750	29.4	120.000	107.0	H	-75.0	20.2	16.6	46.0
297.356250	30.6	120.000	177.0	H	-106.0	20.6	15.4	46.0
324.516250	33.5	120.000	123.0	H	-117.0	21.2	12.5	46.0
338.096250	34.1	120.000	148.0	H	169.0	20.9	11.9	46.0
341.733750	32.4	120.000	183.0	H	165.0	20.8	13.6	46.0
348.281250	30.1	120.000	105.0	H	129.0	21.4	15.9	46.0

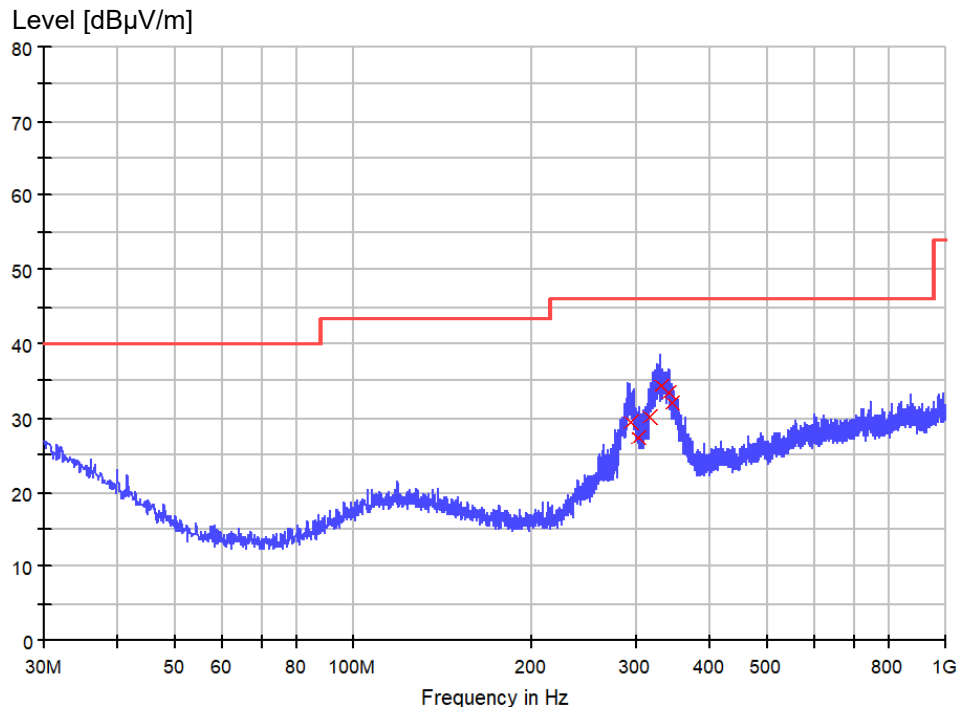
Figure 22: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #1, mode 5



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
49.157500	17.1	120.000	103.0	V	91.0	15.1	22.9	40.0
295.295000	24.7	120.000	173.0	V	172.0	20.4	21.3	46.0
330.942500	28.1	120.000	142.0	V	22.0	21.4	17.9	46.0
340.642500	27.5	120.000	162.0	V	-68.0	20.8	18.5	46.0
345.613750	27.1	120.000	139.0	V	-34.0	21.2	18.9	46.0
557.073750	23.1	120.000	124.0	V	53.0	26.5	22.9	46.0

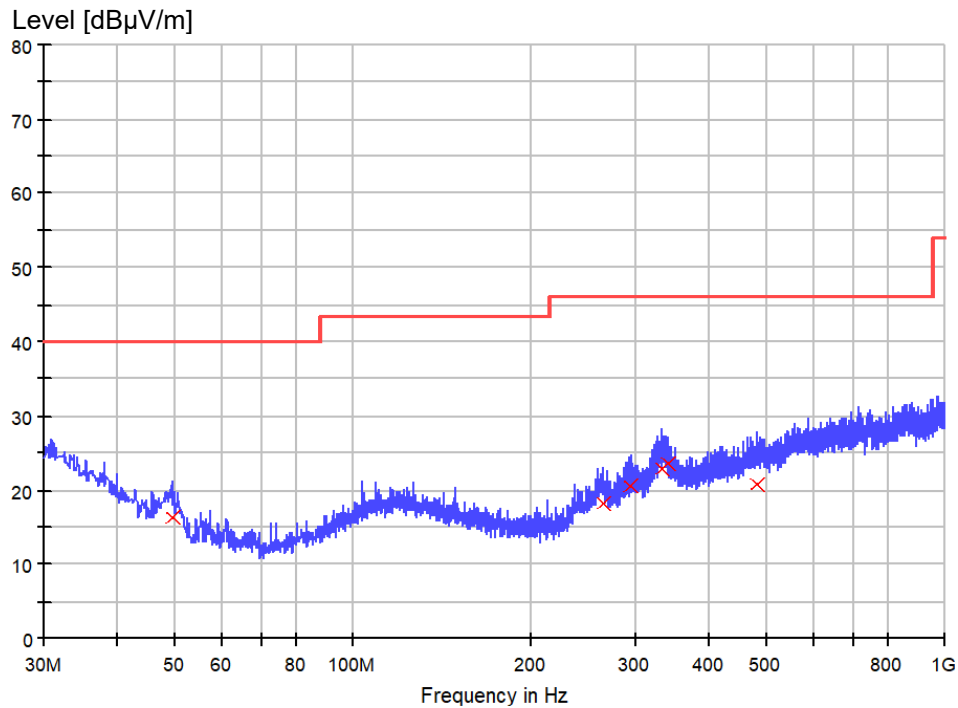
Figure 23: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #1, mode 6



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
294.446250	29.4	120.000	197.0	H	35.0	20.3	16.6	46.0
302.085000	27.5	120.000	155.0	H	51.0	20.8	18.5	46.0
316.271250	30.1	120.000	177.0	H	10.0	20.5	15.9	46.0
329.366250	34.3	120.000	195.0	H	-9.0	21.4	11.7	46.0
339.793750	33.5	120.000	162.0	H	-107.0	20.9	12.5	46.0
345.492500	32.1	120.000	198.0	H	18.0	21.2	13.9	46.0

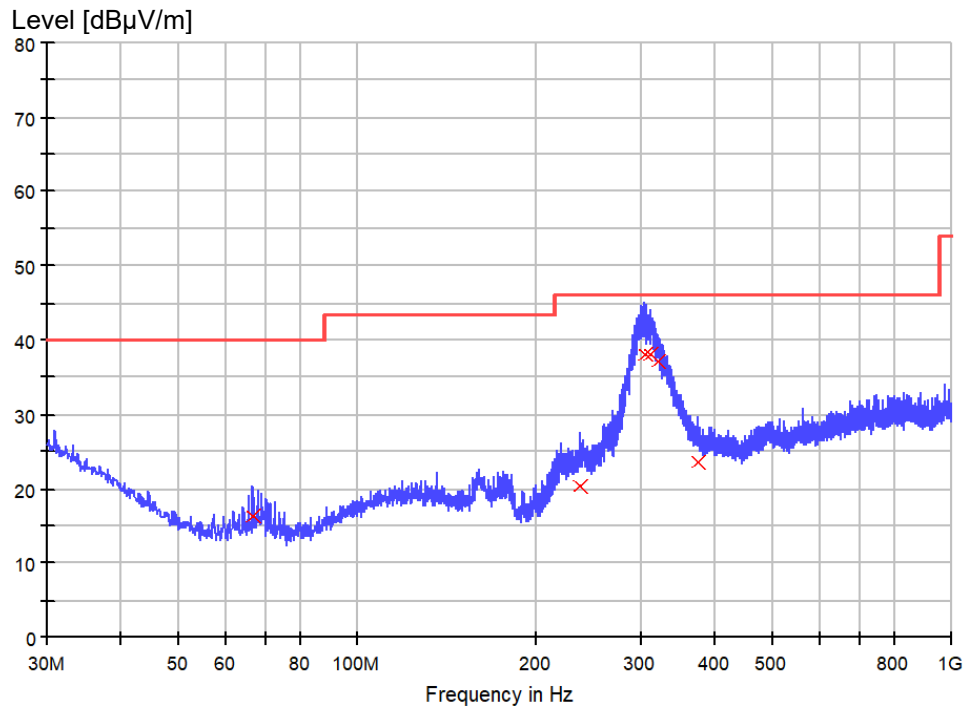
Figure 24: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #1, mode 6



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
49.400000	16.5	120.000	127.0	V	-11.0	15.0	23.5	40.0
264.618750	18.3	120.000	117.0	V	-40.0	21.4	27.8	46.0
294.567500	20.7	120.000	112.0	V	5.0	20.3	25.3	46.0
331.791250	22.9	120.000	184.0	V	175.0	21.4	23.1	46.0
339.793750	23.7	120.000	191.0	V	-150.0	20.9	22.3	46.0
481.171250	20.7	120.000	161.0	V	-85.0	24.7	25.3	46.0

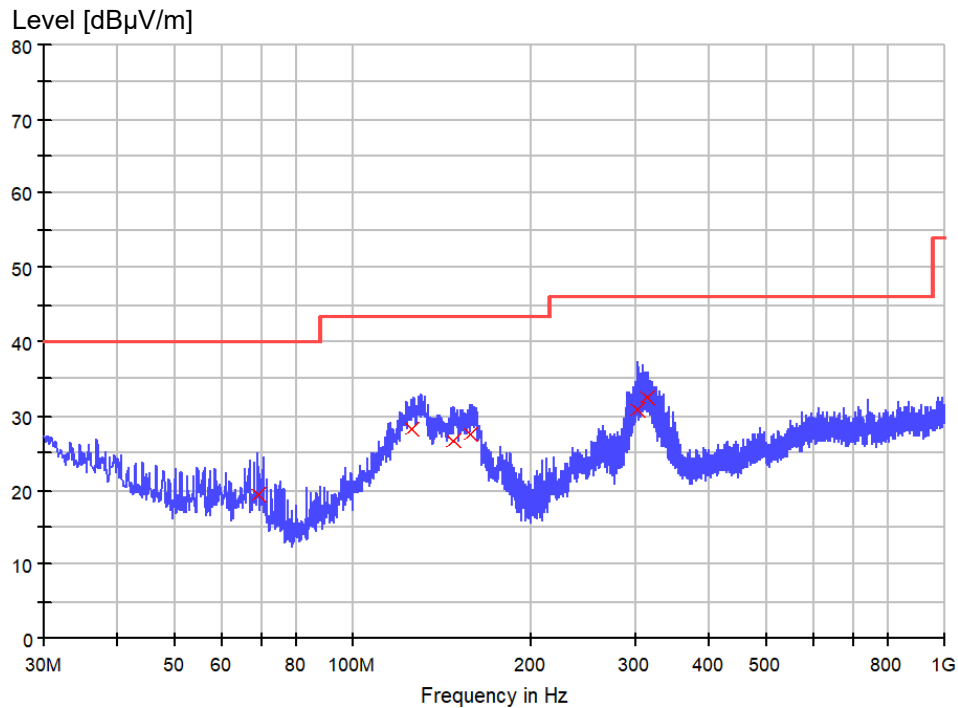
Figure 25: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #2, mode 1



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)
66.738750	16.3	120.000	135.0	H	-42.0	12.7	23.7	40.0
237.095000	20.4	120.000	176.0	H	34.0	18.4	25.6	46.0
305.116250	38.1	120.000	119.0	H	-149.0	20.5	7.9	46.0
312.027500	38.2	120.000	161.0	H	-133.0	20.1	7.8	46.0
321.970000	37.2	120.000	195.0	H	156.0	21.2	8.8	46.0
374.107500	23.7	120.000	181.0	H	52.0	22.0	22.3	46.0

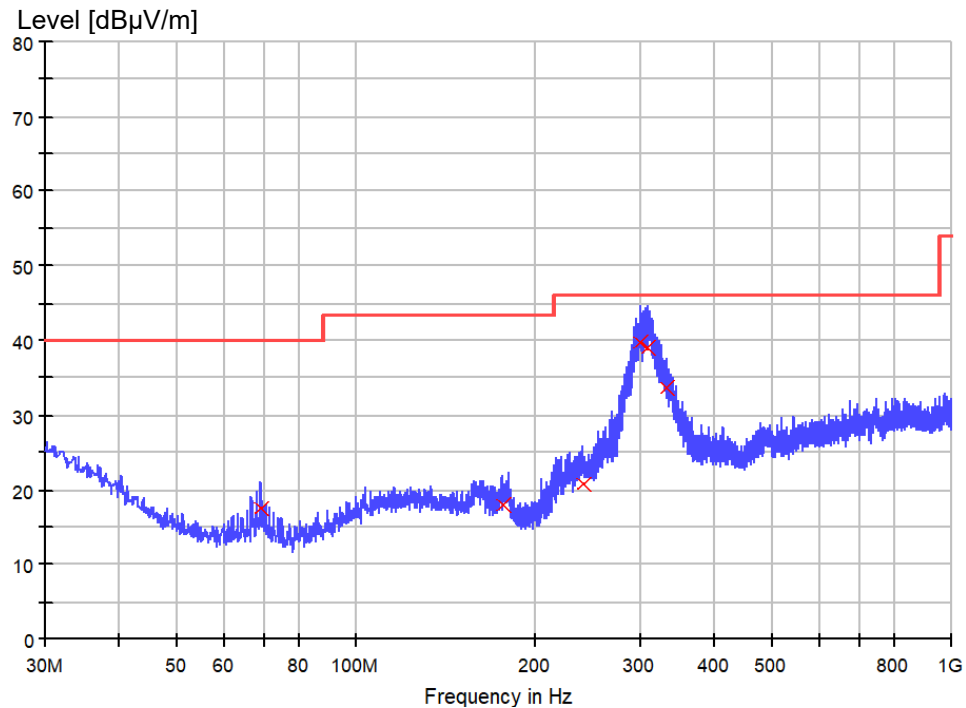
Figure 26: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #2, mode 1



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)
69.163750	19.4	120.000	138.0	V	93.0	12.8	20.6	40.0
125.787500	28.4	120.000	112.0	V	-79.0	18.7	15.2	43.5
147.976250	26.7	120.000	196.0	V	12.0	17.3	16.8	43.5
157.918750	27.5	120.000	156.0	V	-143.0	16.9	16.0	43.5
303.055000	31.0	120.000	139.0	V	-114.0	20.7	15.0	46.0
313.967500	32.5	120.000	130.0	V	-23.0	20.3	13.5	46.0

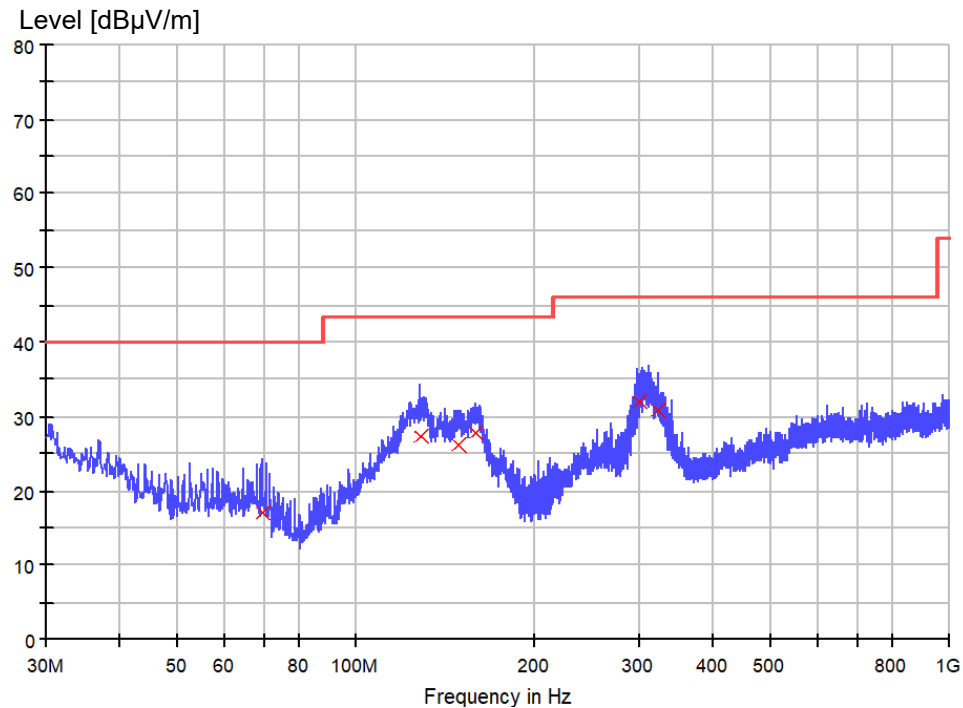
Figure 27: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #2, mode 2



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)
69.285000	17.5	120.000	142.0	H	147.0	12.8	22.5	40.0
176.833750	18.0	120.000	172.0	H	-81.0	16.1	25.5	43.5
241.217500	20.8	120.000	113.0	H	-29.0	19.1	25.2	46.0
299.538750	39.8	120.000	111.0	H	-114.0	20.7	6.2	46.0
310.208750	39.1	120.000	130.0	H	-80.0	20.2	6.9	46.0
333.003750	33.8	120.000	159.0	H	-59.0	21.3	12.3	46.0

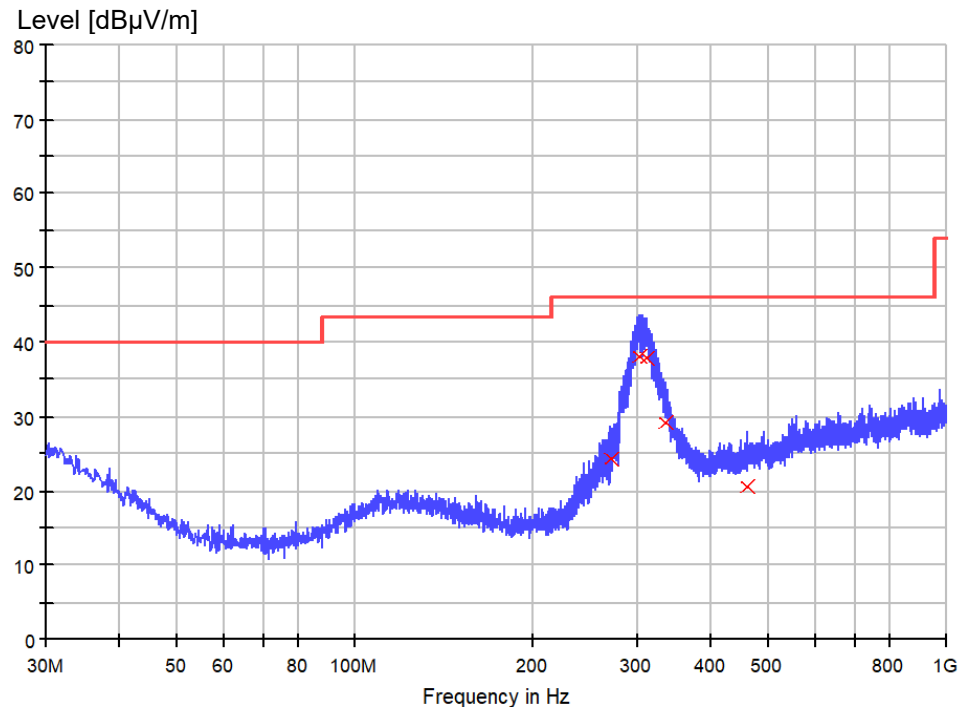
Figure 28: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #2, mode 2



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)
69.406250	17.1	120.000	136.0	V	36.0	12.8	22.9	40.0
128.455000	27.4	120.000	122.0	V	-108.0	18.6	16.2	43.5
148.582500	26.3	120.000	173.0	V	21.0	17.2	17.2	43.5
159.010000	27.9	120.000	199.0	V	174.0	17.0	15.6	43.5
300.023750	32.0	120.000	125.0	V	126.0	20.8	14.0	46.0
323.667500	30.9	120.000	189.0	V	96.0	21.2	15.1	46.0

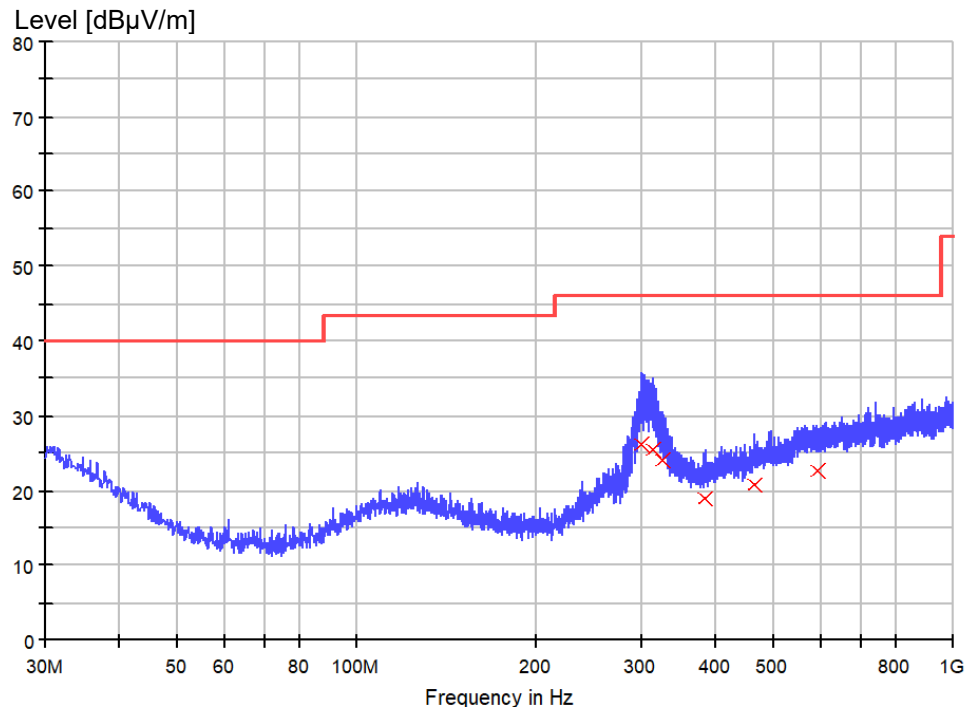
Figure 29: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #2, mode 5



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
271.408750	24.3	120.000	180.0	H	81.0	20.1	21.7	46.0
301.600000	38.2	120.000	145.0	H	125.0	20.9	7.8	46.0
310.693750	37.9	120.000	154.0	H	63.0	20.2	8.1	46.0
335.065000	29.2	120.000	111.0	H	117.0	21.1	16.8	46.0
462.135000	20.6	120.000	131.0	H	-155.0	24.6	25.4	46.0

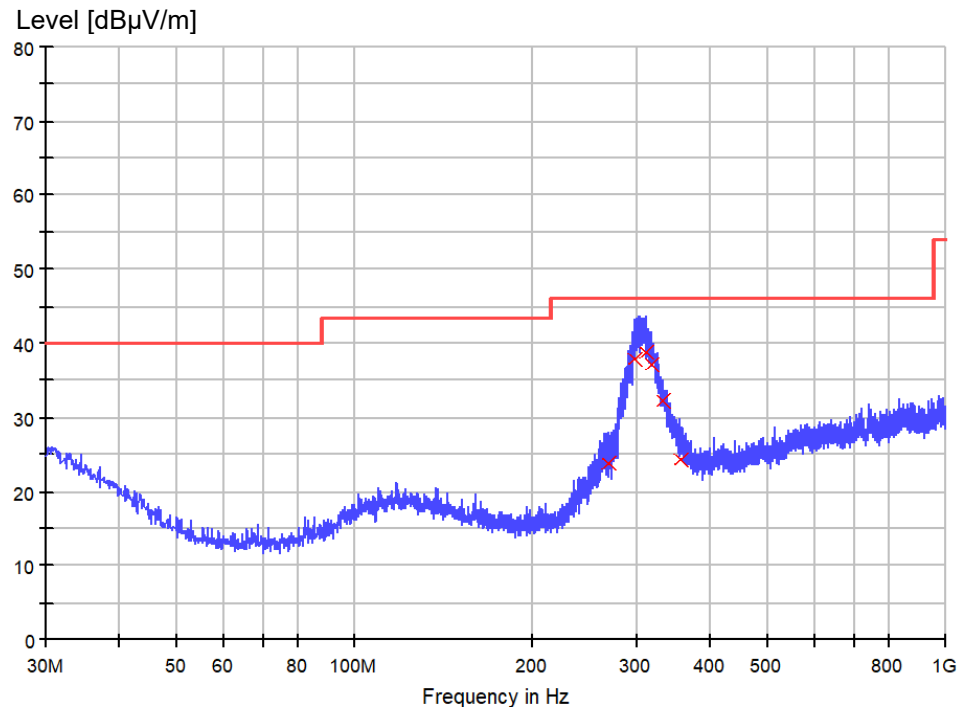
Figure 30: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #2, mode 5



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
300.266250	26.1	120.000	147.0	V	-112.0	20.8	19.9	46.0
313.482500	25.6	120.000	146.0	V	167.0	20.3	20.4	46.0
326.456250	24.1	120.000	197.0	V	-100.0	21.3	21.9	46.0
384.171250	18.9	120.000	178.0	V	-42.0	22.4	27.1	46.0
465.166250	20.8	120.000	137.0	V	108.0	24.7	25.2	46.0
593.085000	22.8	120.000	179.0	V	88.0	26.2	23.2	46.0

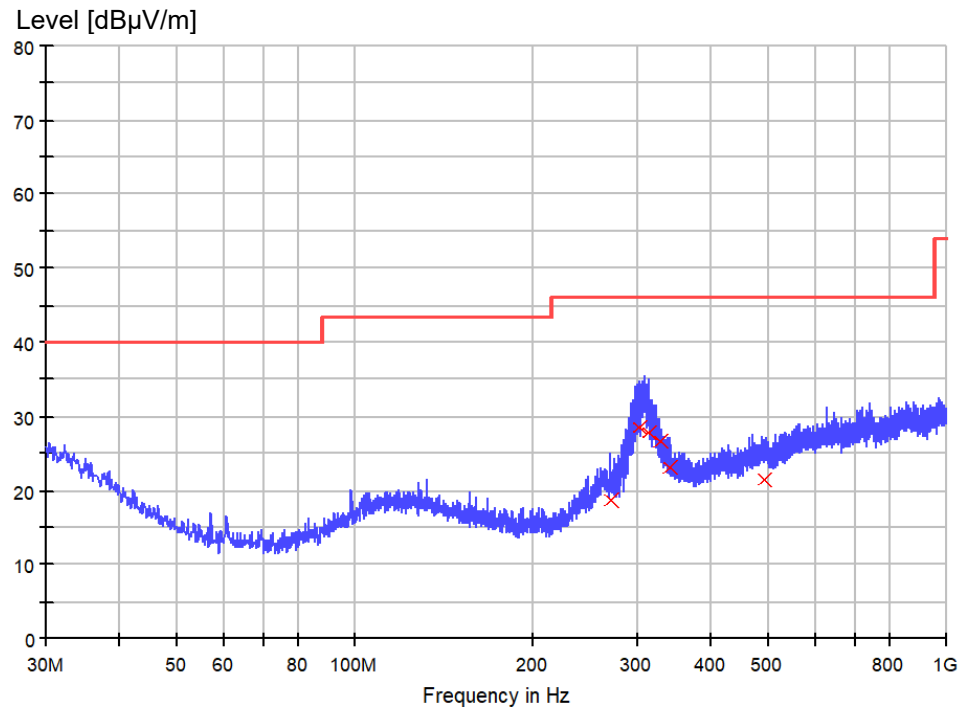
Figure 31: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #2, mode 6



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
268.135000	23.8	120.000	174.0	H	7.0	20.7	22.2	46.0
298.447500	37.9	120.000	166.0	H	-29.0	20.6	8.1	46.0
310.572500	38.9	120.000	125.0	H	26.0	20.2	7.1	46.0
318.211250	37.2	120.000	126.0	H	50.0	20.8	8.8	46.0
332.276250	32.3	120.000	166.0	H	123.0	21.4	13.7	46.0
355.798750	24.4	120.000	169.0	H	-168.0	21.9	21.6	46.0

Figure 32: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #2, mode 6



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
271.408750	18.8	120.000	181.0	V	86.0	20.1	27.2	46.0
302.206250	28.7	120.000	196.0	V	104.0	20.8	17.4	46.0
313.118750	27.9	120.000	180.0	V	-42.0	20.2	18.1	46.0
327.305000	26.7	120.000	137.0	V	78.0	21.3	19.3	46.0
340.521250	23.3	120.000	166.0	V	0.0	20.8	22.8	46.0
490.750000	21.6	120.000	146.0	V	160.0	25.6	24.4	46.0

Prüfbericht - Nr.: CN269112 001

Test Report No.:

Seite 47 von 49

Page 47 of 49

6 Photographs of the Test Set-Up

Refer to the test setup file.

7 List of Test and Measurement Instruments

Equip. no.	Equipment name	Model	Serial no.	Manufacturer	Cal. date	Due date
EMC-S-028	EMI measurement software	EMC32-E+ (10.60.20)	100150	Rohde & Schwarz	N/A	N/A
EMC-C-366	Thermohygrometer	608-H1	2485149174	testo	2025-07-11	2026-07-11
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	2025-09-02	2026-09-02
EMC-S-032	EMI measurement software	EMC32-MEB (10.60.20)	100697	Rohde & Schwarz	N/A	N/A
EMC-C-155	BiLog antenna	CBL 6112D	40530	Teseq	2025-03-24	2026-09-24
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2026-05-19	2027-05-19
EMC-C-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2025-09-28	2026-09-28
EMC-C-001	3 m semi-anechoic chamber	SAC3	FJ129002	Frankonia	2023-12-03	2026-12-03

8 List of Figures

Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #1, mode 1	13
Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #1, mode 1	14
Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #1, mode 2	15
Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #1, mode 2	16
Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #1, mode 3	17
Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #1, mode 3	18
Figure 7: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #1, mode 4	19
Figure 8: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #1, mode 4	20
Figure 9: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #2, mode 1	21
Figure 10: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #2, mode 1	22
Figure 11: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #2, mode 2	23
Figure 12: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #2, mode 2	24
Figure 13: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #2, mode 3	25
Figure 14: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #2, mode 3	26
Figure 15: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L1, Sample #2, mode 4	27
Figure 16: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, Sample #2, mode 4	28
Figure 17: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #1, mode 1	31
Figure 18: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #1, mode 132	33
Figure 19: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #1, mode 2	33
Figure 20: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #1, mode 234	35
Figure 21: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #1, mode 5	35
Figure 22: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #1, mode 536	37
Figure 23: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #1, mode 6	37
Figure 24: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #1, mode 638	39
Figure 25: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #2, mode 1	39
Figure 26: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #2, mode 140	41
Figure 27: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #2, mode 2	41
Figure 28: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #2, mode 242	43
Figure 29: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #2, mode 5	43
Figure 30: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #2, mode 544	45
Figure 31: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Sample #2, mode 6	45
Figure 32: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Sample #2, mode 646	45

End of test report