

Prüfbericht-Nr.: <i>Test Report No.:</i>	50302080 001	Auftrags-Nr.: <i>Order No.:</i>	244156292 244171236	Seite 1 von 25 <i>Page 1 of 25</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	60051577	Auftragsdatum: <i>Order date.:</i>	05.07.2019		
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden				
Prüfgegenstand: <i>Test item:</i>	Power Supply				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	ICPSW5-23NA-1				
Auftrags-Inhalt: <i>Order content:</i>	EMC test				
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2018 Class B ICES-003:2016				
Wareneingangsdatum: <i>Date of receipt:</i>	10.07.2019	Refer to the EUT photos file			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000953555-001				
Prüfzeitraum: <i>Testing period:</i>	Refer to test report				
Ort der Prüfung: <i>Place of testing:</i>	EMC laboratory				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
<i>Jessie Xu</i>		<i>Jiayi Zhou</i>			
30.08.2019	Jessie Xu/Senior project engineer	30.08.2019	Jiayi Zhou/Senior manager		
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
FCC ID: FHO-ICPSW5-23NA-1 Test Firm Registration Number: 958801					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(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 a. m. 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.: 50302080 001
Test Report No.:

Seite 2 von 25
Page 2 of 25

TEST SUMMARY

4.1.1 MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE

Result:

Passed

4.2.1 RADIATED EMISSION

Result:

Passed

Contents

1	TEST SITES	4
1.1	TEST FACILITIES.....	4
1.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	4
2	GENERAL PRODUCT INFORMATION	5
2.1	PRODUCT FUNCTION AND INTENDED USE	5
2.2	RATINGS AND SYSTEM DETAILS.....	5
2.3	INDEPENDENT OPERATION MODES	5
2.4	DESCRIPTION OF INTERCONNECTING CABLES	5
2.5	NOISE GENERATING AND NOISE SUPPRESSING PARTS	5
2.6	HIGHEST FREQUENCY GENERATED OR USED IN THE DEVICE OR ON WHICH THE DEVICE OPERATES OR TUNES.....	5
2.7	SUBMITTED DOCUMENTS.....	5
3	TEST SET-UP AND OPERATION MODES	6
3.1	PRINCIPLE OF CONFIGURATION SELECTION	6
3.2	EQUIPMENT AND CABLE ARRANGEMENT.....	6
3.3	TEST SOFTWARE	7
3.4	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	7
3.5	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	7
4	TEST RESULTS EMISSION	8
4.1	EMISSION IN THE FREQUENCY RANGE UP TO 30 MHZ	8
4.1.1	<i>Mains Terminal Continuous Disturbance Voltage</i>	8
4.2	EMISSION IN THE FREQUENCY RANGE ABOVE 30 MHZ.....	16
4.2.1	<i>Radiated emission</i>	16
5	PHOTOGRAPHS OF THE TEST SET-UP	24
6	LIST OF TABLES	25
7	LIST OF FIGURES	25

1 Test Sites

1.1 Test Facilities

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

Address: No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China

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

1.2 List of Test and Measurement Instruments

Table 1: List of test and measurement equipment

No.	Equipment	Model	Serial no./ software version	Cal. Due date	Cal. interval
1.	EMI test receiver	ESIB26	100227	19.04.2020	1 year
2.	Artificial mains network	ENV216	100122	19.09.2019	1 year
3.	3m modified semi-anechoic chamber	SAC3	FJ129002	14.05.2020	3 years
4.	EMI test receiver	ESCI	100280	02.11.2019	1 year
5.	Bilog antenna	CBL 6112D	40530	14.02.2020	3 years
6.	EMC measurement software	EMC32	10.20.01	N/A	N/A

2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is an ordinary power supply for household and similar use. For the further information, refer to the user's manual.

2.2 Ratings and System Details

System input : AC 100 – 240 V, 50/60 Hz, Max. 0.6 A
Output USB-C : DC 5 V 3 A, DC 9 V 2 A, DC 12 V 1.5 A, DC 15 V 1.2A
Output USB-A : DC 5 V 1 A
Protection class : II

2.3 Independent Operation Modess

The basic operation modes are: "ON" and "OFF" etc.

The test modes are following:

Mode 1	Output USB-C: DC 5 V 3 A	Output USB-A: DC 5V 1 A
Mode 2	Output USB-C: DC 9 V 2 A	Output USB-A: DC 5V 1 A
Mode 3	Output USB-C: DC 15 V 1.2 A	Output USB-A: DC 5V 1 A

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 labels.

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.

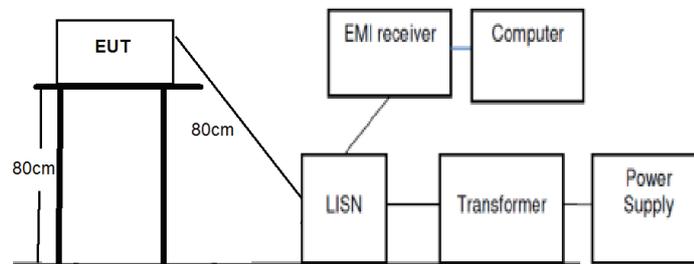
Refer to the related paragraph of this report.

The sequence of testing:

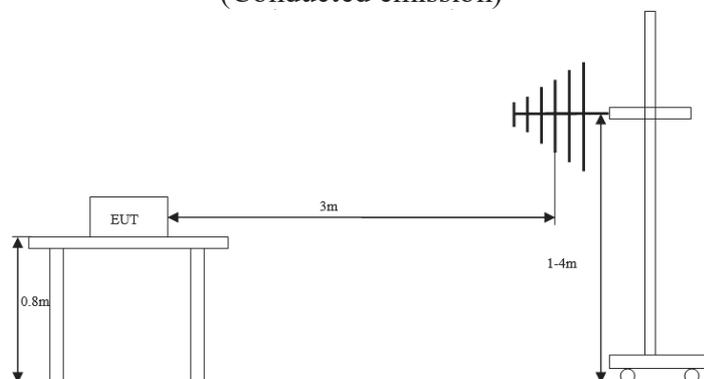
1. Radiated emission tests were performed on 22.07.2019;
2. Conducted emission tests were performed on 22.07.2019.

3.2 Equipment and cable arrangement

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



(Conducted emission)



(Radiated emission)

Also refer to photographs on clause 5 for test setups for both conducted emission test and radiated emission test.

3.3 Test Software

No special test software was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

During the tests, the matched resistor was used as load.

3.5 Countermeasures to achieve EMC Compliance

No other special measure is employed to achieve the requirement.

4 Test Results EMISSION

4.1 Emission in the Frequency Range up to 30 MHz

4.1.1 Mains Terminal Continuous Disturbance Voltage

Result:	Passed
Date of testing	: 22.07.2019
Test procedure	: FCC 47 CFR Part 15, Subpart B:2018, ICES-003:2016, ANSI C63.4-2014 and CISPR 16-1 series standards
Frequency range	: 0.15 – 30 MHz
Limits	: Quasi-peak limit: 0.15 - 0.5 MHz, 66 to 56 dB μ V (decrease with the logarithm of frequency); 0.5 - 5 MHz, 56 dB μ V; 5 - 30 MHz, 60 dB μ V Average limit: 0.15 - 0.5 MHz, 56 to 46 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dB μ V; 5 – 30 MHz, 50 dB μ V
Bandwidth of EMI receiver for final measurement	: 9 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Shielded room
Input voltage	: AC 120 V, 60 Hz
Operational mode	: Mode 1, Mode 2 & Mode 3 as defined in clause 2.3
Ambient condition	: Temperature: 23.3 °C; Relative humidity: 45.8 %
Expanded measurement uncertainty ($k=2$)	: 3.39 dB

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, Blue “◆” means Quasi-Peak Value and green “◆” means Average Value results.

Prüfbericht - Nr.: 50302080 001
Test Report No.:

Seite 9 von 25
Page 9 of 25

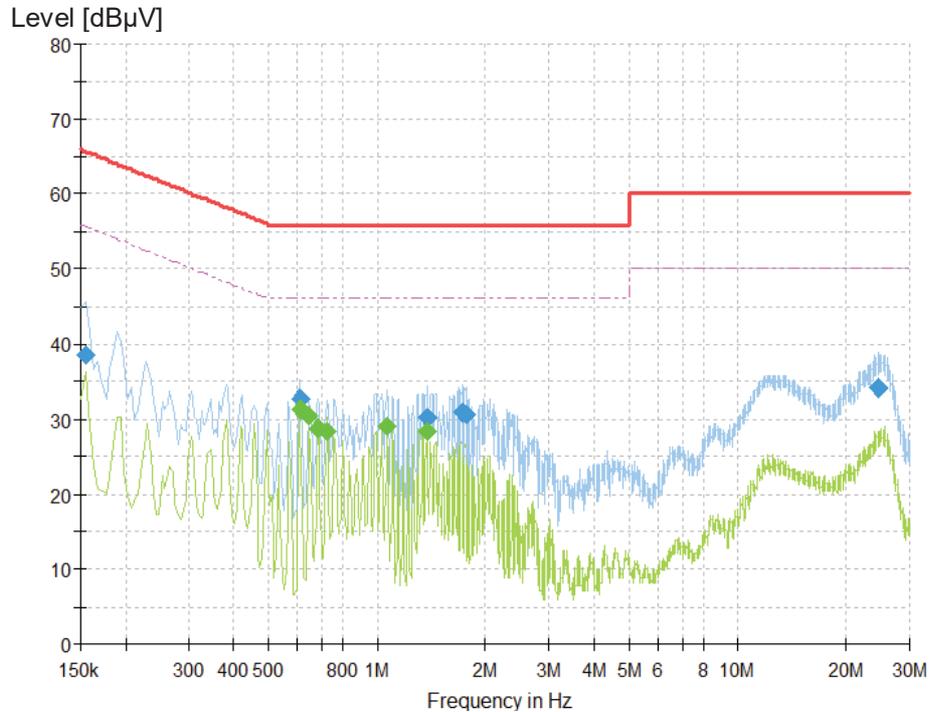
Notes on following tables of conducted emission results and conversions:

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 for Mode 1



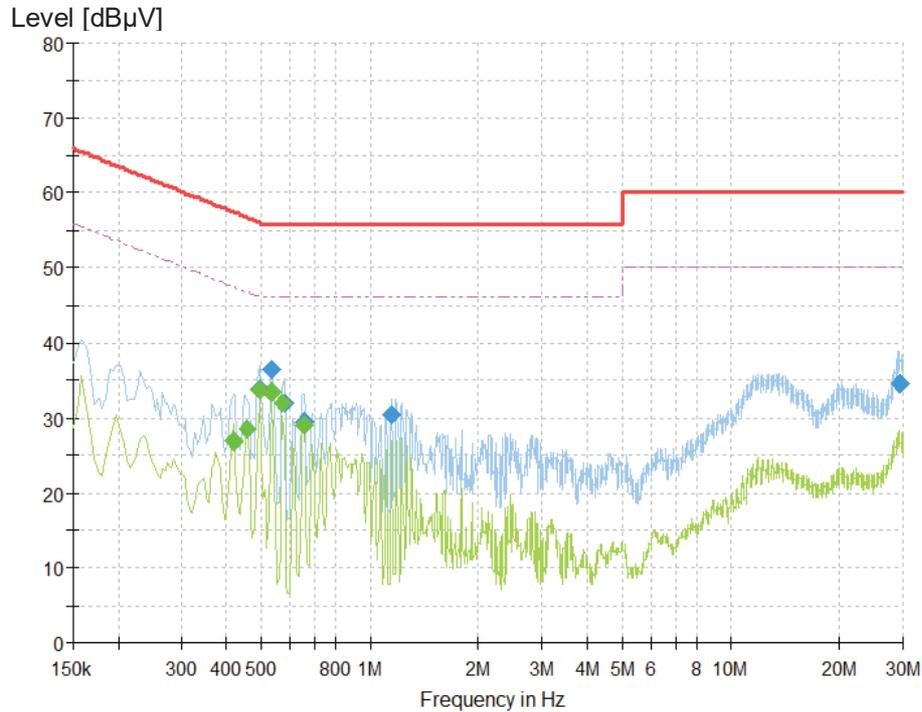
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	38.55	65.75	27.21	1000.0	9.000	L1	10.0
0.609000	32.77	56.00	23.23	1000.0	9.000	L1	9.8
1.374000	30.16	56.00	25.84	1000.0	9.000	L1	9.7
1.720500	30.97	56.00	25.03	1000.0	9.000	L1	9.8
1.761000	30.72	56.00	25.28	1000.0	9.000	L1	9.8
24.495000	34.05	60.00	25.95	1000.0	9.000	L1	9.8

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.609000	31.24	46.00	14.76	1000.0	9.000	L1	9.8
0.649500	30.49	46.00	15.51	1000.0	9.000	L1	9.8
0.685500	28.80	46.00	17.20	1000.0	9.000	L1	9.8
0.726000	28.32	46.00	17.68	1000.0	9.000	L1	9.7
1.068000	28.91	46.00	17.09	1000.0	9.000	L1	9.7
1.374000	28.37	46.00	17.63	1000.0	9.000	L1	9.7

Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 1



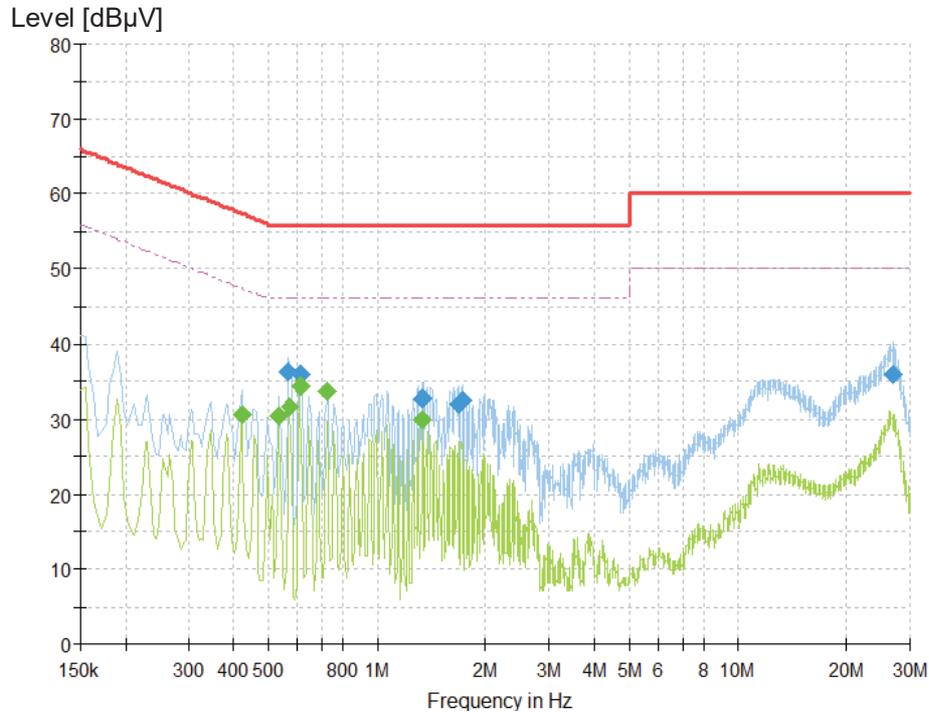
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.492000	33.86	56.13	22.27	1000.0	9.000	N	9.8
0.537000	36.42	56.00	19.58	1000.0	9.000	N	9.8
0.577500	31.94	56.00	24.06	1000.0	9.000	N	9.8
0.654000	29.40	56.00	26.60	1000.0	9.000	N	9.8
1.149000	30.51	56.00	25.49	1000.0	9.000	N	9.7
29.233500	34.52	60.00	25.48	1000.0	9.000	N	9.9

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.415500	26.85	47.54	20.69	1000.0	9.000	N	9.8
0.456000	28.44	46.77	18.32	1000.0	9.000	N	9.8
0.496500	33.75	46.06	12.31	1000.0	9.000	N	9.8
0.532500	33.49	46.00	12.51	1000.0	9.000	N	9.8
0.573000	32.08	46.00	13.92	1000.0	9.000	N	9.8
0.654000	29.06	46.00	16.94	1000.0	9.000	N	9.8

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for Mode 2



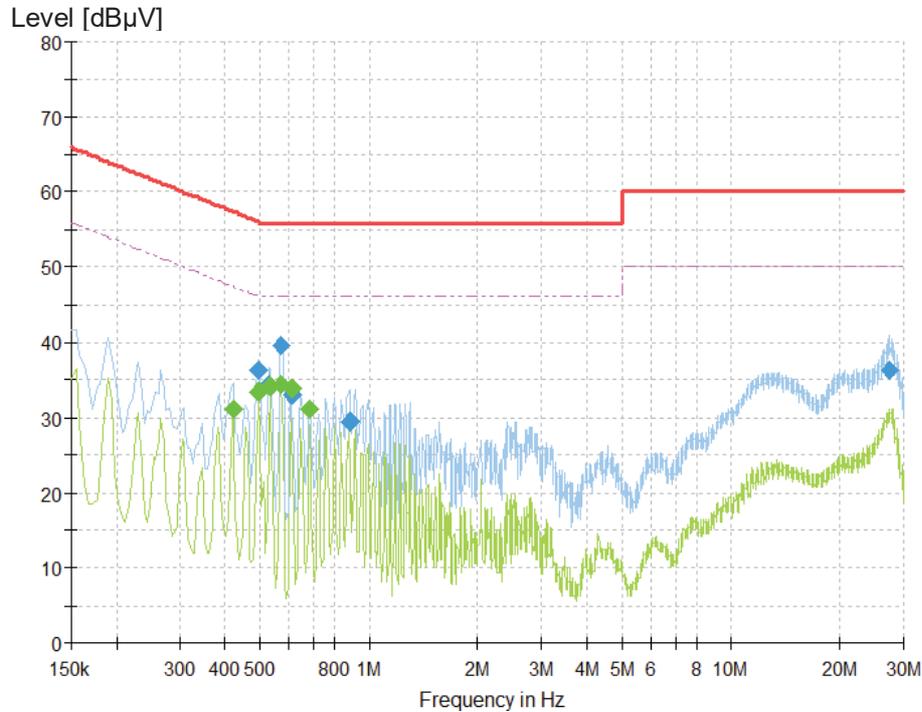
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.568500	36.37	56.00	19.63	1000.0	9.000	L1	9.8
0.609000	35.95	56.00	20.05	1000.0	9.000	L1	9.8
1.329000	32.80	56.00	23.20	1000.0	9.000	L1	9.7
1.684500	32.02	56.00	23.98	1000.0	9.000	L1	9.8
1.716000	32.40	56.00	23.60	1000.0	9.000	L1	9.8
26.704500	36.00	60.00	24.00	1000.0	9.000	L1	9.9

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.420000	30.57	47.45	16.88	1000.0	9.000	L1	9.9
0.532500	30.40	46.00	15.60	1000.0	9.000	L1	9.9
0.573000	31.57	46.00	14.43	1000.0	9.000	L1	9.8
0.609000	34.37	46.00	11.63	1000.0	9.000	L1	9.8
0.726000	33.61	46.00	12.39	1000.0	9.000	L1	9.7
1.333500	29.84	46.00	16.16	1000.0	9.000	L1	9.7

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 2



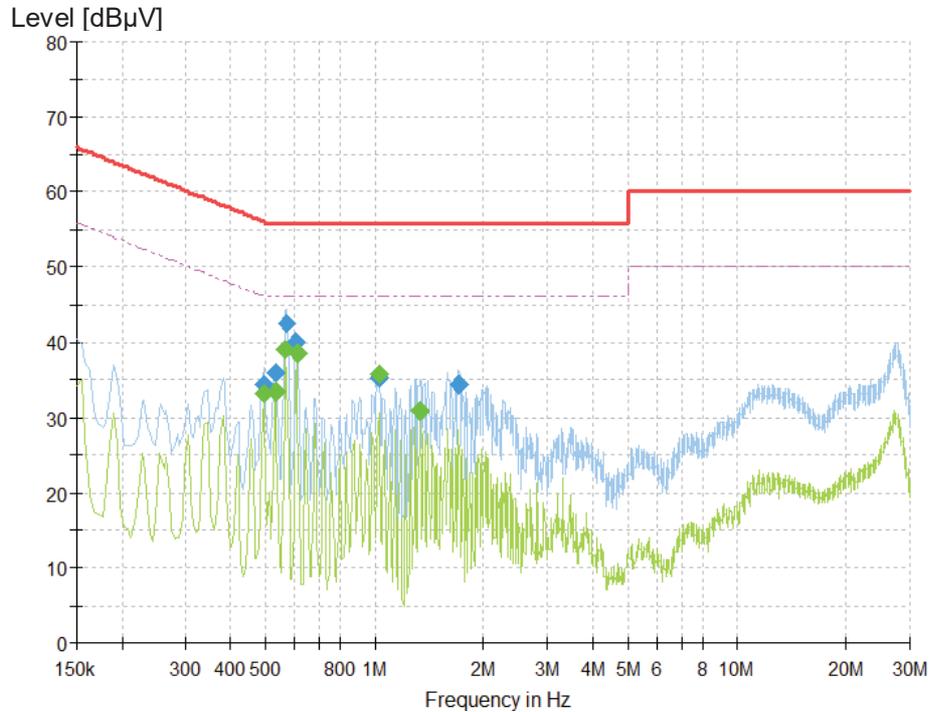
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.496500	36.30	56.06	19.76	1000.0	9.000	N	9.8
0.528000	34.49	56.00	21.51	1000.0	9.000	N	9.8
0.573000	39.51	56.00	16.49	1000.0	9.000	N	9.8
0.609000	33.06	56.00	22.94	1000.0	9.000	N	9.8
0.883500	29.56	56.00	26.44	1000.0	9.000	N	9.7
27.456000	36.22	60.00	23.78	1000.0	9.000	N	9.8

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.420000	31.09	47.45	16.36	1000.0	9.000	N	9.8
0.496500	33.42	46.06	12.64	1000.0	9.000	N	9.8
0.532500	34.21	46.00	11.79	1000.0	9.000	N	9.8
0.573000	34.44	46.00	11.56	1000.0	9.000	N	9.8
0.609000	33.87	46.00	12.13	1000.0	9.000	N	9.8
0.685500	31.03	46.00	14.97	1000.0	9.000	N	9.7

Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for Mode 3



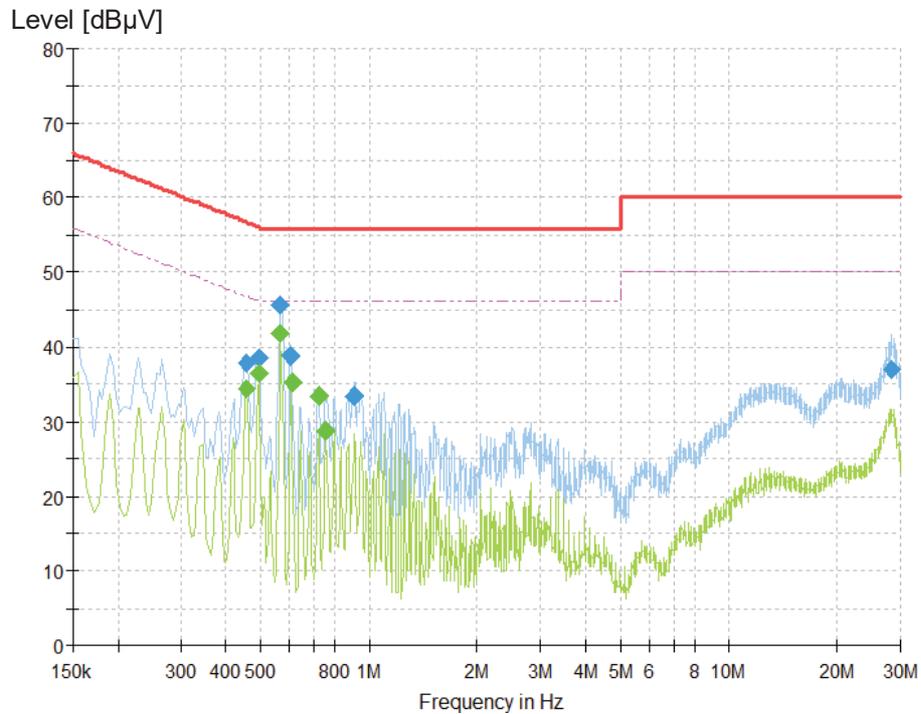
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.496500	34.39	56.06	21.67	1000.0	9.000	L1	9.9
0.532500	36.04	56.00	19.96	1000.0	9.000	L1	9.9
0.573000	42.56	56.00	13.44	1000.0	9.000	L1	9.8
0.604500	40.08	56.00	15.92	1000.0	9.000	L1	9.8
1.027500	35.27	56.00	20.73	1000.0	9.000	L1	9.7
1.711500	34.46	56.00	21.54	1000.0	9.000	L1	9.8

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.492000	33.16	46.13	12.97	1000.0	9.000	L1	9.9
0.532500	33.48	46.00	12.52	1000.0	9.000	L1	9.9
0.568500	39.01	46.00	6.99	1000.0	9.000	L1	9.8
0.609000	38.59	46.00	7.41	1000.0	9.000	L1	9.8
1.023000	35.90	46.00	10.10	1000.0	9.000	L1	9.7
1.329000	30.87	46.00	15.13	1000.0	9.000	L1	9.7

Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.456000	37.91	56.77	18.85	1000.0	9.000	N	9.8
0.492000	38.60	56.13	17.54	1000.0	9.000	N	9.8
0.568500	45.65	56.00	10.35	1000.0	9.000	N	9.8
0.604500	38.88	56.00	17.12	1000.0	9.000	N	9.8
0.910500	33.48	56.00	22.52	1000.0	9.000	N	9.7
28.221000	37.07	60.00	22.93	1000.0	9.000	N	9.8

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.456000	34.30	46.77	12.46	1000.0	9.000	N	9.8
0.492000	36.45	46.13	9.68	1000.0	9.000	N	9.8
0.568500	41.79	46.00	4.21	1000.0	9.000	N	9.8
0.609000	35.31	46.00	10.69	1000.0	9.000	N	9.8
0.721500	33.45	46.00	12.55	1000.0	9.000	N	9.7
0.762000	28.87	46.00	17.13	1000.0	9.000	N	9.7

4.2 Emission in the Frequency Range above 30 MHz

4.2.1 Radiated emission

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

Date of testing	: 22.07.2019
Test procedure	: FCC 47 CFR Part 15, Subpart B:2018, ICES-003:2016, ANSI C63.4-2014 and CISPR 16-1 series standards
Frequency range	: 30 – 1000 MHz Note: The highest frequency in the EUT is 52 kHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 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 – 960 MHz, 46 dB μ V/m; Above 960 MHz, 54 dB μ V/m.
Bandwidth of EMI receiver for final measurement	: 120 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Semi-anechoic chamber
Operational mode	: Mode 1, Mode 2 & Mode 3 as defined in clause 2.3
Ambient condition	: Temperature: 23.8 °C; Relative humidity: 45.6 %
Expanded measurement uncertainty ($k=2$)	: 5.49 dB

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.

Notes on following tables of radiated emission results and conversions:

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

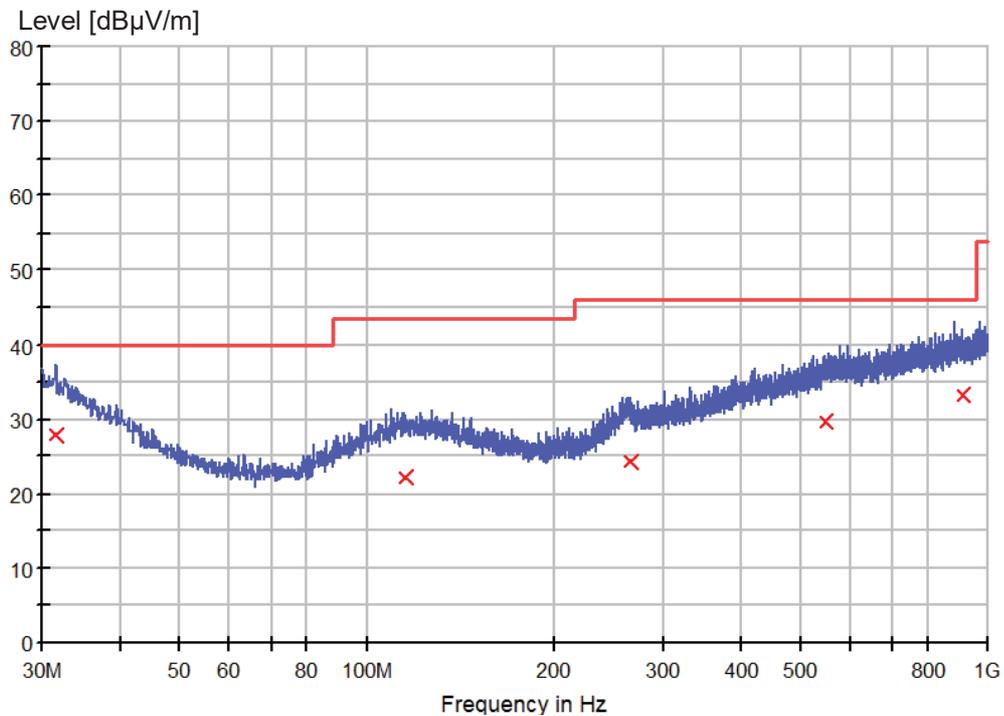
Prüfbericht - Nr.: 50302080 001
Test Report No.:

Seite 17 von 25
Page 17 of 25

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)

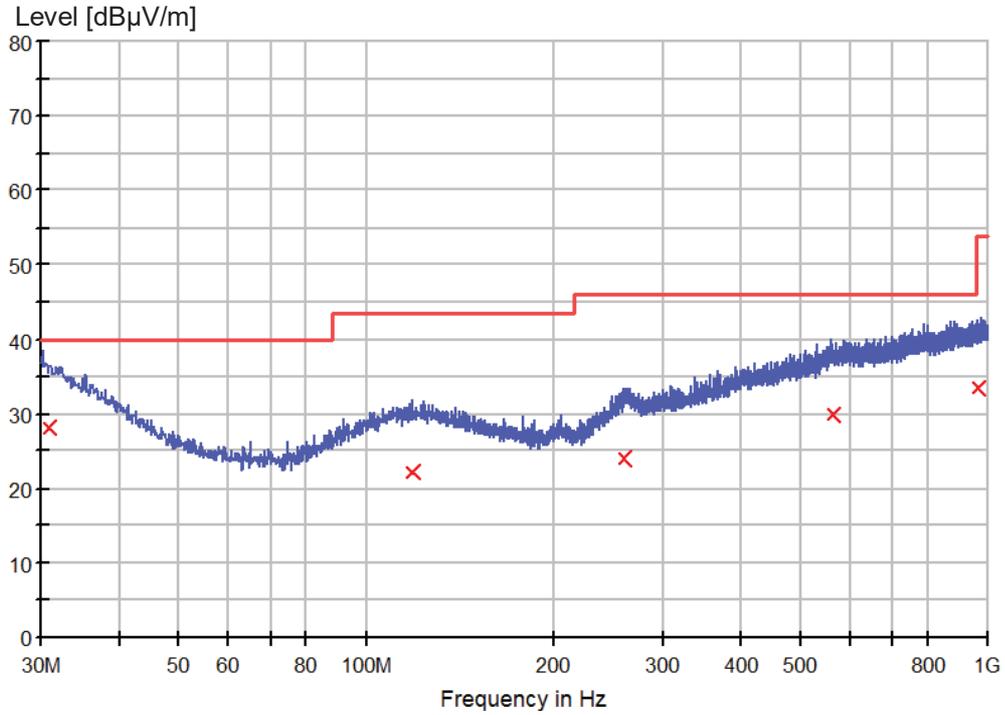
Figure 7: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.576250	27.8	1000.0	120.000	100.0	H	0.0	24.5	12.2	40.0
114.875000	22.1	1000.0	120.000	100.0	H	0.0	19.2	21.4	43.5
264.982500	24.3	1000.0	120.000	100.0	H	0.0	21.3	21.7	46.0
547.010000	29.8	1000.0	120.000	100.0	H	0.0	26.3	16.2	46.0
910.275000	33.2	1000.0	120.000	100.0	H	0.0	28.8	12.8	46.0

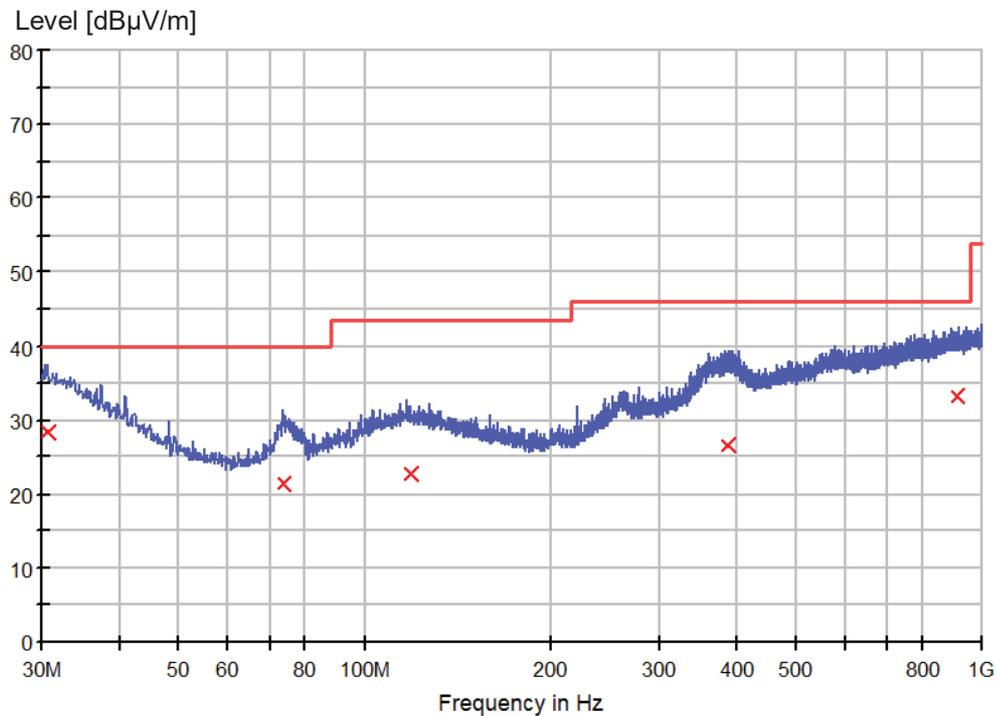
Figure 8: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.970000	28.1	1000.0	120.000	100.0	V	180.0	24.9	11.9	40.0
118.512500	22.2	1000.0	120.000	100.0	V	180.0	19.3	21.3	43.5
259.890000	24.1	1000.0	120.000	100.0	V	180.0	21.1	21.9	46.0
561.681250	30.0	1000.0	120.000	100.0	V	180.0	26.6	16.0	46.0
968.475000	33.6	1000.0	120.000	100.0	V	180.0	29.3	20.4	54.0

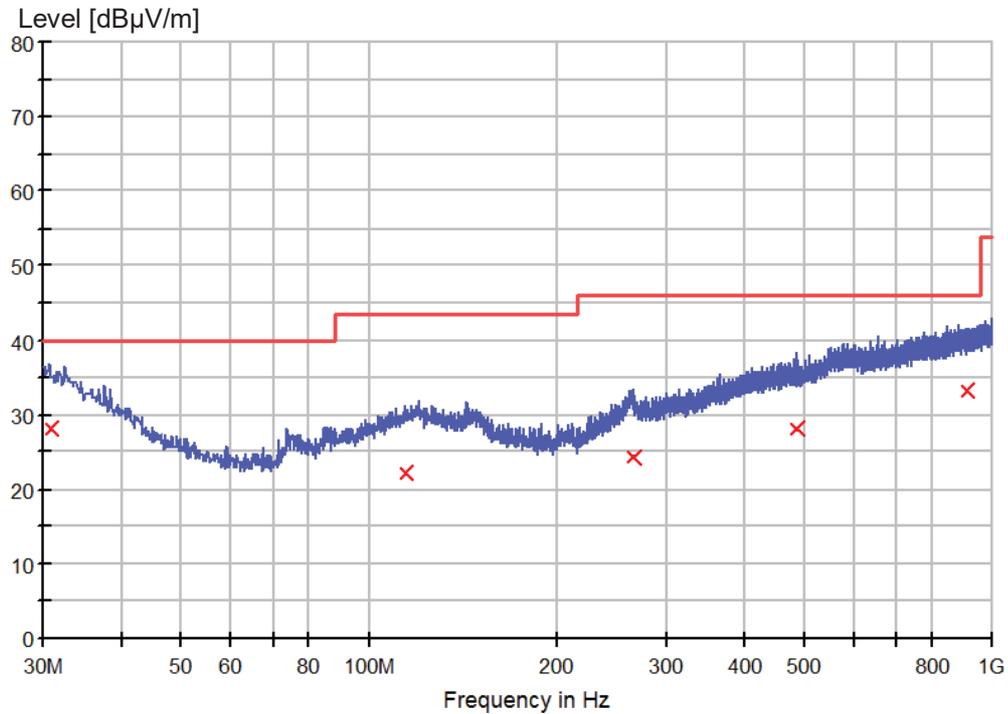
Figure 9: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.606250	28.3	1000.0	120.000	100.0	H	0.0	25.1	11.7	40.0
73.528750	21.4	1000.0	120.000	100.0	H	0.0	12.9	18.6	40.0
118.512500	22.7	1000.0	120.000	100.0	H	0.0	19.3	20.8	43.5
386.353750	26.6	1000.0	120.000	100.0	H	0.0	22.8	19.4	46.0
912.093750	33.3	1000.0	120.000	100.0	H	0.0	28.8	12.7	46.0

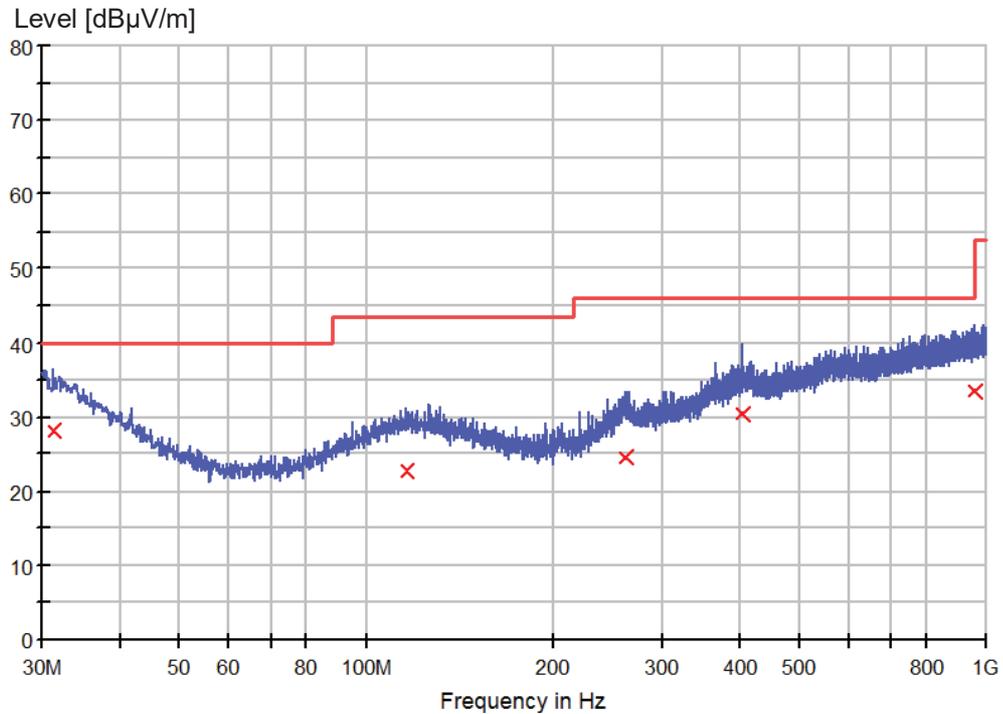
Figure 10: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.970000	28.2	1000.0	120.000	100.0	V	-180.0	24.9	11.8	40.0
114.147500	22.3	1000.0	120.000	100.0	V	-180.0	19.2	21.2	43.5
265.588750	24.2	1000.0	120.000	100.0	V	-180.0	21.2	21.8	46.0
486.506250	28.2	1000.0	120.000	100.0	V	-180.0	25.0	17.8	46.0
908.941250	33.2	1000.0	120.000	100.0	V	-180.0	28.8	12.8	46.0

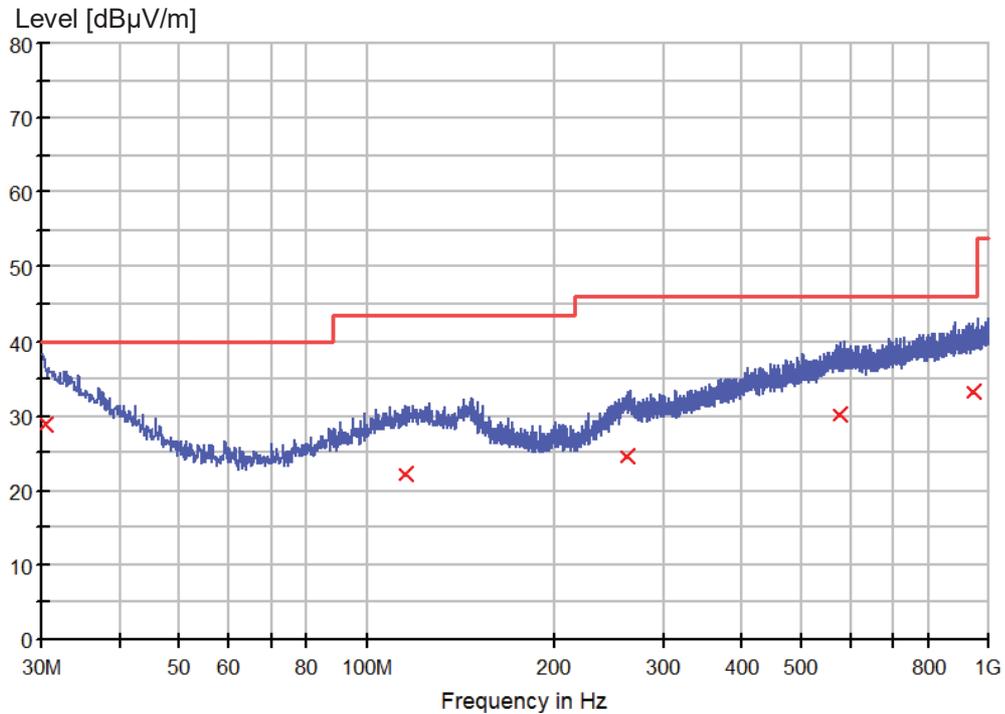
Figure 11: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.212500	28.0	1000.0	120.000	100.0	H	0.0	24.7	12.0	40.0
115.723750	22.7	1000.0	120.000	100.0	H	0.0	19.2	20.8	43.5
262.678750	24.6	1000.0	120.000	100.0	H	0.0	21.4	21.4	46.0
404.420000	30.4	1000.0	120.000	100.0	H	0.0	23.5	15.6	46.0
956.713750	33.5	1000.0	120.000	100.0	H	0.0	29.3	12.5	46.0

Figure 12: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.363750	28.9	1000.0	120.000	100.0	V	-180.0	25.2	11.1	40.0
114.875000	22.3	1000.0	120.000	100.0	V	-180.0	19.2	21.2	43.5
262.436250	24.5	1000.0	120.000	100.0	V	-180.0	21.4	21.5	46.0
575.503750	30.2	1000.0	120.000	100.0	V	-180.0	26.6	15.8	46.0
944.103750	33.2	1000.0	120.000	100.0	V	-180.0	29.0	12.8	46.0

5 Photographs of the Test Set-Up

Refer to the test setup file

6 List of Tables

Table 1: List of test and measurement equipment.....4

7 List of Figures

Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for Mode 1 10
Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 1 11
Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for Mode 2 12
Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 2 13
Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for Mode 3 14
Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for Mode 3 15
Figure 7: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 1 18
Figure 8: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 1 19
Figure 9: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 2 20
Figure 10: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 2 21
Figure 11: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for Mode 3 22
Figure 12: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for Mode 3 23

End of test report