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EMC TEST REPORT

No. 2025001STO-108

Electromagnetic disturbances

EQUIPMENT UNDER TEST

Equipment:

Charging station together with Table standing luminaire

Type/Model:

E2021 Bettorp and E2022 Bettorp

Manufacturer:

IKEA of Sweden AB

Tested by request of:

IKEA of Sweden AB

SUMMARY

Referring to the emission limits, and the operating mode during the tests specified in this report, the equipment complies with the requirements according to the following standards:

FCC 47 CFR Part 15: Radio frequency devices, Subpart B: Unintentional radiators. Class B equipment and Subpart C: Intentional radiators. Section 15.209.

ICES-005 Issue 5: Lighting Equipment, Class B (2018) RSS-216 Issue 2: Wireless Power Transfer Devices

RSS-Gen Issue 5: General Requirements for Compliance of Radio Apparatus

For details, see clause 2 - 4.

Date of issue: April 22, 2021

Tested by:

Approved by:

Anders Lindström

Matti Virkki

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Revision History

Test report no.	Release no.	Date of issue	Description
2025001STO-108	1	April 22, 2021	



Terms, definitions and abbreviations

The following terms, definitions and abbreviations may be used throughout the report.

Term/definition/abbreviation	Meaning	
AAN	Asymmetrical Artificial Network	
AC	Alternating Current	
AE	Associated Equipment	
AMN	Artificial Mains Network	
AV	Average	
BW	Bandwidth	
CAV	CISPR Average	
СМ	Common Mode	
CMAD	Common Mode Absorption Device	
DC	Direct Current	
DM	Differential Mode	
EM	Electromagnetic	
EMC	Electromagnetic Compatibility	
EUT	Equipment Under Test	
F	Fail	
FAR	Fully Anechoic Room	
F_X	Highest fundamental frequency generated or used within the EUT, or highest frequency at which it operates	
Н	Horizontal	
I _{ref}	Reference Current	
ISN	Impedance Stabilizing Network	
MU	Measurement Uncertainty	
N/A	Not Applicable	
Р	Pass	
PE	Protective Earth	
PK	Peak	
Pol.	Polarisation	
QP / QPK	Quasi-Peak	
RBW	Resolution Bandwidth	
RF	Radio Frequency	
RGP	Reference Ground Plane	
RH	Relative Humidity	
RMS	Root Mean Square	
Rx	Receiver / Receiving	
SAC	Semi-Anechoic Chamber	
Tx	Transmitter / Transmitting	
V	Vertical	
VBW	Video Bandwidth	



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1. CLIENT INFORMATION

The EUT has been tested by request of

Company	IKEA of Sweden AB Box 702 343 81 Älmhult Sweden
Name of contact	Adina Zugrav

2. EQUIPMENT UNDER TEST (EUT)

2.1 Identification of the EUT

Equipment:	Charging station together with Table standing luminaire								
Type/Model:	E2021 Bettorp and E2022 Bettorp								
Brand name:	IKEA								
S/N:									
Manufacturer:	IKEA of Swe	den AB							
Installation class:	☐ I * Power supp	⊠ II * oly ** Charç	⊠ III ** ging station		□ N/A				
Highest clock frequency, F_X :	Induction cha	arger frequ	ency 112 –	148 KHz					
Software version:	-								
Hardware version:	-								
Mounting position: (during normal use)	☑ Table-top☐ Floor-standing☐ Wall/ceiling☐ Hand-held☐ Other:								
Supplementary information:									
Input ratings	Voltage [V]	Freq. [Hz]	Current [A]	Power [W]		C	ouplin	ıg	
⊠ AC	100-240	50/60		23	L1 ⊠	L2 □	L3 □	N ⊠	PE
⊠ DC	24			19	V+ ⊠	V- ⊠			PE
⊠ Battery	5			5	V+	V- ⊠			PE
☐ Other:									





???????

Type No. E2021

Bettorp

Made in

CAN ICES-005 (B) / NMB-005 (B) This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may

cause undesired operation.

Sup. No.00000

FCC ID:FHO-E2021



TYP E2021 NA Version 1



4002352 Type No. E2022

Bettorp

Made in China

Conforms to: UL Std 153 Certified to: CSA Std C22.2 No. 250.4 CAN ICES-005 (B) / NMB-005 (B)



TYP B2022 NA Version 1

Photo/copy of marking/rating plate(s)



2.2 Test set up and EUT photos

Test set up and EUT photos are enclosed in a photo annex no. 2105001STO-109 Annex 1

2.3 Additional information about the EUT

The EUT is a Charging station provided with two wireless charging plates. A rechargeable Table standing luminaire is also included. The EUT is tested in a table-top standing configuration.

The EUT has the following noted auxiliary equipment:

Power supply IKEA, type ICPSW24-19-1.

The Power supply is not considered as test-item, however necessary for the function of the EUT, and therefore included in the tests.

The EUT consists of the following units:

Unit	S/N	Description
Charging station	-	IKEA, type E2021 Bettorp
Table standing luminaire	-	IKEA, type E2022 Bettorp

The EUT has the following noted components:

Noted component	Туре
Built-in Wireless charger	IKEA, type ICTD-5-BI-3

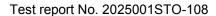
The EUT has the following ports:

Port type	Port name	Shielded			
	AC I/O				
□ AC power input	AC Input power				
☐ AC power output					
	DC I/O				
□ DC power input	DC Input power				
☐ DC power output					
Signal/control I/O					
☐ Telecom/network					
☐ Signal/control					
Supplementary information:					

2.4 Peripheral equipment

Peripheral equipment is equipment needed for correct operation of the EUT, but not included as part of the testing and evaluation of the EUT.

Equipment	Manufacturer	Type/Model	S/N
Cell phone dummy	IKEA	-	-



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2.5 Decision rule

The statements of conformity are reported as:

Passed – When the measured values are within the specified limits.

Failed – When one or more measures values are outside the specified limits.



3. TEST SPECIFICATIONS

3.1 Additions, deviations and exclusions from standards and accreditation

No additions, deviations or exclusions have been made from standards and accreditation.

The following editions of basic standards were applied instead of the standards referenced in FCC 47 CFR Part 15 and ICES-005:

Referenced	Applied
ANSI C63.4-2014	ANSI C63.4-2014
ANSI C63.10-2013	ANSI C63.10-2013
CISPR 15:2015	CISPR 15:2018

3.2 Test site

Measurements were performed at:

Intertek Semko AB. Torshamnsgatan 43, P.O. Box 1103 SE-164 22 Kista

Intertek Semko AB is an FCC listed test site with site registration number 90913 Intertek Semko AB is an FCC accredited conformity assessment body with designation number SE0002

Intertek Semko AB is an Industry Canada listed test facility with IC assigned code 2042G

Measurement chambers

Measurement Chamber	Type of chamber	IC Site filing #
⊠ STORA HALLEN	Semi-anechoic 10 m and 3 m	2042G-2
☐ BJÖRKHALLEN	Semi-anechoic 3 m	2042G-1
□ 5 m CHAMBER	Semi-anechoic 5 m	2042G-3

3.3 Mode of operation during the test

Mode no.	Supply	Description
1	120 V AC, 60 Hz	Induction charger loaded with the luminaire E2022 Bettorp (Light set to maximum) and with a cell phone dummy supplied by the manufacturer.
2	120 V AC, 60 Hz	Charger in standby, no load on charging plate
3	-	Luminaire only, battery operated



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Test	Mode of operation
Conducted continuous emission	1,2
Radiated emission of EM fields 30 – 1000 MHz	1,2,3
Radiated emission of EM fields 9 kHz – 30 MHz	1,2



4. TEST SUMMARY

The test has been carried out at the Intertek Semko AB premises in Kista, Sweden. The results in this report apply only to sample tested.

Result: P - F - N/A

EMISSION TESTS										
Chapter	Standard(s)	Description	Port type(s)	Note(s)	Verdict					
4	FCC Part 15 subpart B	Conducted continuous emission	AC input	-	Р					
4	ICES-005	Conducted continuous emission	AC input	-	Р					
5	FCC Part 15 subpart B	Radiated emission of EM fields	Enclosure	-	Р					
5	ICES-005	Radiated emission of EM fields	Enclosure	-	Р					
6	FCC Part 15 subpart C	Radiated emission of EM fields	Enclosure	-	Р					
6	RSS-216, RSS- Gen	Radiated emission of EM fields	Enclosure	-	Р					
Supplem	entary information	1:								





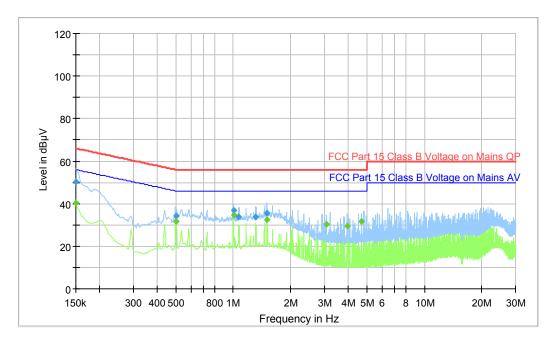
CONDUCTED CONTINUOUS DISTURBANCES 5. in the frequency-range 0.15 - 30 MHz

Date of test	Temp. [°C]	Humidity [%RH]	Tested by
March 4, 2021	22	17	Anders Lindström

Test setup and procedure:	Overview sweeps were p AE requiring mains power	EUT was placed 0.8 m from the AMN /ISN. Overview sweeps were performed for each lead of the cable(s). AE requiring mains power to operate was/were connected to AMN /ISN terminated with 50 Ω , when applicable.					
EUT position:	☑ Table-top☐ Floor-standing☐ Other:	(EUT 0.4 m from the RGP) ding (EUT 12 mm from the RGP)					
Tested port	Counting device		Measurement u	incertainty			
type(s):	Coupling device		Frequency range	Value			
	⊠ AMN	AMN 0.15 – 30 MHz ± 3.3 dB					
	formation: rtainty is calculated in accor uncertainty is given with a co						



5.1 Test results, AC Power input port, Class B, Mode no. 1



Diagram, Peak and AV overview sweep

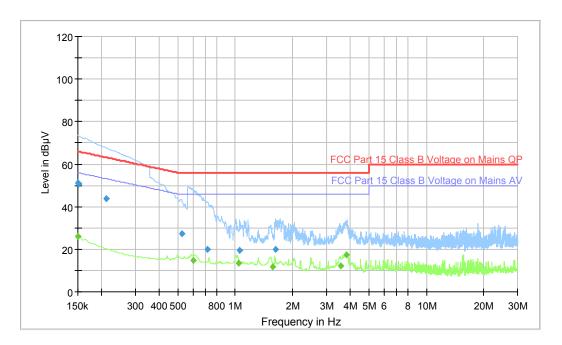
Measurement results, Quasi-peak and Average

Frequency	QuasiPeak	Average	Limit	Margin	Meas. Time	Bandwidth	Line	PE
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	(ms)	(kHz)		
0.150000		40.33	56.00	15.67	1000.0	9.000	N	GND
0.150000	50.46		66.00	15.54	1000.0	9.000	L1	GND
0.501000		31.46	46.00	14.54	1000.0	9.000	N	GND
0.501000	34.42		56.00	21.58	1000.0	9.000	N	GND
1.002750		34.61	46.00	11.39	1000.0	9.000	N	GND
1.002750	36.90		56.00	19.10	1000.0	9.000	L1	GND
1.068000	33.94		56.00	22.06	1000.0	9.000	N	GND
1.313250	33.66		56.00	22.34	1000.0	9.000	L1	GND
1.504500	35.32		56.00	20.68	1000.0	9.000	L1	GND
1.504500		32.31	46.00	13.69	1000.0	9.000	N	GND
3.057000		30.51	46.00	15.49	1000.0	9.000	N	GND
3.930000		29.50	46.00	16.50	1000.0	9.000	N	GND
4.659000		31.82	46.00	14.18	1000.0	9.000	N	GND

Result [dB μ V] = Analyser reading [dB μ V] + cable loss [dB] + LISN insertion loss [dB]



5.2 Test results, AC Power input port, Class B, Mode no. 2



Diagram, Peak and AV overview sweep

Measurement results, Quasi-peak and Average

Frequency	QuasiPeak	Average	Limit	Margin	Meas. Time	Bandwidth	Line	PE
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	(ms)	(kHz)		
0.150000		26.10	56.00	29.97	1000.0	9.000	L1	GND
0.150000	51.03		66.00	14.97	1000.0	9.000	L1	GND
0.152250	50.90		65.88	14.98	1000.0	9.000	L1	GND
0.210750	43.72		63.18	19.46	1000.0	9.000	N	GND
0.528000	27.14		56.00	28.86	1000.0	9.000	L1	GND
0.602250		14.85	46.00	31.15	1000.0	9.000	L1	GND
0.717000	19.96		56.00	36.04	1000.0	9.000	N	GND
1.043250		13.64	46.00	32.36	1000.0	9.000	N	GND
1.050000	19.41		56.00	36.59	1000.0	9.000	L1	GND
1.574250		11.71	46.00	34.29	1000.0	9.000	N	GND
1.617000	20.03		56.00	35.97	1000.0	9.000	N	GND
3.547500		12.21	46.00	33.79	1000.0	9.000	N	GND
3.799500		17.24	46.00	28.76	1000.0	9.000	N	GND

Result [dB μ V] = Analyser reading [dB μ V] + cable loss [dB] + LISN insertion loss [dB]



5.3 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Last Cal. date	Cal. interval
Measurement	Rohde &	EMC32 -			
software	Schwarz	Version			
Receiver	Rohde &	ESU 8	12866	July 2020	1 year
	Schwarz				
AMN / LISN	Rohde &	ESH3-Z5	2728	July 2020	1 year
	Schwarz				-
Pulse limiter	Rohde &	ESH3-Z2	4623	May 2020	1 year
	Schwarz				
Cable	Huber +	RG 223/U	9815	June 2020	1 year
	Suhner				-
Cable	Huber	G03232	9701	June 2020	1 year
		D-01			-
Multimeter	Gossen	Metra Hit	8141	June 2020	1 year
	Metrawatt	16S			
Temp/Hygro	Vaisala	HMI41	8335	November	1 year
				2020	





6. RADIATED RF EMISSION IN THE FREQUENCY-RANGE 30 MHZ - 1000 MHZ

Date of test	Temp. [°C]	Humidity [%RH]	Tested by
March 5, 2021	22	14	Anders Lindström

Test setup and procedure:	The EUT was placed on a non-conductive support on the RGP. Overview sweeps were performed with the measurement receiver in max hold mode and the peak detector activated in the frequency range 30 – 1000 MHz. Above 1 GHz, both the peak and average detectors were activated, when applicable. During height scan above 1 GHz the EUT was kept in antennas cone of radiation.								
EUT position:	•	0.8 m from the RGP) I2 mm from the RGP)							
Highest measured frequency:	$\boxtimes F_X \le 108 \text{ MHz:}$ $\Box 108 \text{ MHz} < F_X \le 500 \text{ MHz:}$ $\Box 500 \text{ MHz} < F_X \le 1 \text{ GHz:}$ $\Box F_X > 1 \text{ GHz:}$ $\Box F_X \text{ is unknown:}$	1 GHz 2 GHz 5 GHz 5 x F_X up to a max. of 40 GHz 40 GHz							
Frequency range:	Measuring distance	Measurement uncertainty							
⊠ 30 to 1000 MHz	3 m	± 5.1 dB							
☐ 30 to 1000 MHz	10 m	± 5.0 dB							
☐ 1.0 to 18 GHz	3 m	± 4.5 dB							
☐ 18 to 26 GHz	3 m	± 4.8 dB							
□ 26 to 40 GHz 3 m ± 5.7 dB									

Supplementary information: Measurement uncertainty is calculated in accordance with CISPR 16-4-2:2011. The measurement uncertainty is given with a confidence of 95 %.

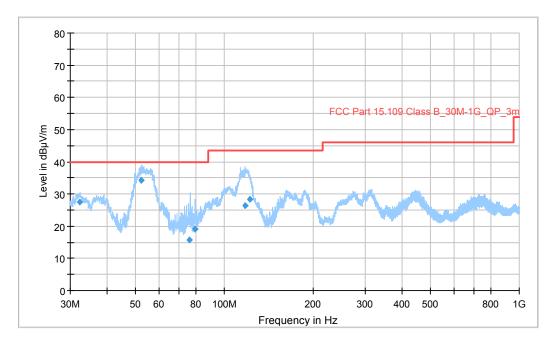
Test	Freq.	Meas. angle		Antenna			RBW [kHz]		VBW [kHz]
	[MHz]	[°]	Type	Height	Pol.	QP	PK	AV	PK
Preview	30 – 1000	0 – 359	Dilog	1 – 4 m		-	120	-	1000
Final	30 – 1000	0 – 359	0 – 359 Bilog		V	120	-	-	-
Preview	1000 –	0 350	Horn	1 1 m	and H	-	1000	1000	3000
Final	40000	0 – 359	Horn	1 – 4 m	1-4111	-	1000	1000	-



Measurement	Frequency	Li	imits [dBµV/m]	
distance [m]	[MHz]	QP	PK	AV
	Limits	s, FCC, Class A		
	30 – 88	49.6 / 39.1	-	-
	88 – 216	54.0 / 43.5	-	-
□ 3 / □ 10	216 – 960	56.9 / 46.4	-	-
	960 – 1000	60.0 / 49.5	-	-
□ 3	Above 1000	-	80.0	60.0
	Limits	s, FCC, Class B		
	30 – 88	40.0 / 29.5	-	-
⊠ 3 / □ 10	88 – 216	43.5 / 33.1	-	1
△ 3 / □ 10	216 – 960	46.0 / 35.6	-	-
	960 – 1000	54.0 / 43.5	-	-
□ 3	Above 1000	-	74.0	54.0
	Limits,	CES-005 Class A		
	30 – 88	49.5 / 39.1	-	-
□ 3 / □ 10	88 – 216	54.0 / 43.5		
	230 – 1000	56.9 / 46.4	-	-
	Limits, I	CES-005, Class B		_
	30 – 88	40.0 / 29.5	-	-
⊠ 3 / □ 10	88 – 216	43.5 / 33.1	-	-
	230 – 1000	46.0 / 35.6	-	-



6.1 Test results, 30 - 1000 MHz, FCC, Class B, Mode no. 1



Diagram, Peak overview sweep

Measurement results, Quasi-peak

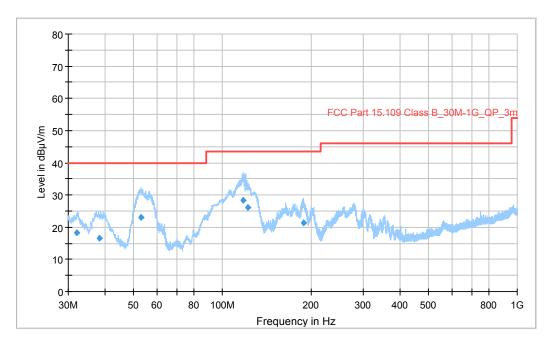
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
32.220	27.49	40.00	12.51	1000.0	120.0	111.0	V	239.0
52.320	34.27	40.00	5.73	1000.0	120.0	133.0	٧	120.0
76.320	15.63	40.00	24.37	1000.0	120.0	100.0	٧	281.0
79.650	18.97	40.00	21.03	1000.0	120.0	116.0	٧	283.0
117.480	26.49	43.52	17.03	1000.0	120.0	100.0	٧	247.0
121.710	28.28	43.52	15.24	1000.0	120.0	105.0	٧	319.0

Result [dB μ V/m] = Analyser reading [dB μ V] + Antenna factor [1/m] - Amplifier gain [dB] + Cable loss [dB]

The EUT also fulfils the limit for ICES-005, see limit table, page 17.



6.2 Test results, 30 - 1000 MHz, FCC, Class B, Mode no. 2



Diagram, Peak overview sweep

Measurement results, Quasi-peak

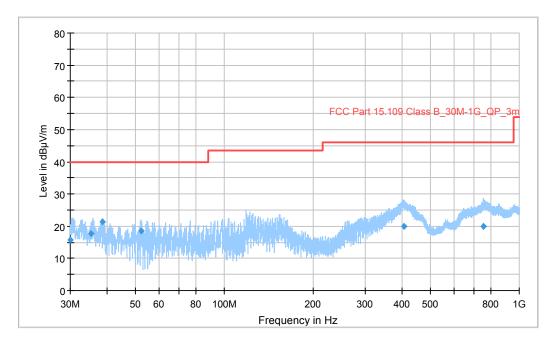
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
32.130	18.13	40.00	21.87	1000.0	120.0	100.0	V	171.0
38.400	16.55	40.00	23.45	1000.0	120.0	150.0	٧	143.0
53.040	23.10	40.00	16.90	1000.0	120.0	190.0	٧	307.0
117.630	28.24	43.52	15.28	1000.0	120.0	100.0	٧	275.0
121.710	26.23	43.52	17.29	1000.0	120.0	109.0	٧	127.0
188.610	21.39	43.52	22.13	1000.0	120.0	122.0	٧	208.0

Result [dB μ V/m] = Analyser reading [dB μ V] + Antenna factor [1/m] - Amplifier gain [dB] + Cable loss [dB]

The EUT also fulfils the limit for ICES-005, see limit table, page 17.



6.3 Test results, 30 – 1000 MHz, FCC, Class B, Mode no. 3



Diagram, Peak overview sweep

Measurement results, Quasi-peak

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.030	15.68	40.00	24.32	1000.0	120.0	122.0	٧	123.0
35.370	17.77	40.00	22.23	1000.0	120.0	100.0	٧	173.0
38.550	21.35	40.00	18.65	1000.0	120.0	104.0	٧	145.0
52.140	18.40	40.00	21.60	1000.0	120.0	150.0	٧	164.0
404.970	19.80	46.02	26.22	1000.0	120.0	141.0	٧	280.0
758.070	20.02	46.02	26.00	1000.0	120.0	141.0	٧	92.0

Result [dB μ V/m] = Analyser reading [dB μ V] + Antenna factor [1/m] - Amplifier gain [dB] + Cable loss [dB]

The EUT also fulfils the limit for ICES-005, see limit table, page 17.



6.4 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Last Cal. date	Cal. interval
Measurement software	Rohde & Schwarz	EMC32 - Version			
Measurement Receiver	Rohde & Schwarz	ESW 44	34030	July 2020	1 year
Antenna	Teseq	CBL 6111D	32400	March 2020	3 year
Preamplifier	Semko	AM1331	S7992	June 2020	1 year
Measurement cable	Huber + Suhner	Sucoflex 106	39122	April 2020	1 year
Measurement cable	Rosenberger	LA5-S003- 10000 (UFB293C)	39163	February 2021	1 year
Multimeter	Gossen Metrawatt	Metra Hit 16S	8125	November 2020	1 year
Temp/Hygro	Vaisala	HMI41	31215	June 2020	1 year



7. RADIATED ELECTROMAGNETIC DISTURBANCES, LOOP ANTENNA

Date of test Temp. [°C]		Humidity [%RH]	Tested by
March 15, 2021	21	19	Anders Lindström

Test setup and procedure:	The radiated electromagnetic disturbances were measured with a loop antenna. Overview sweeps were performed with the measurement receiver in max hold mode and the peak detector activated in the frequency range 0,009 – 30 MHz.
EUT position:	
Supplementary info	rmation:

Limits FCC 15.209, RSS-216 and RSS-Gen, table 6

Loop antenna, Limits at 3 m distance							
Frequency [MHz]	Measurement uncertainty						
0.009 - 0.09	128.5- 108.5 (1)	Average					
0.09 – 0.110	108.5 – 106.8 (1)	Quasi-peak					
0.110 – 0.490	106.8 – 93.8 (1)	Average	± 3.2 dB				
0.490 – 1.705	73.8 - 62.9 (1) Quasi-peak						
1.705 – 30.000	69.5	Quasi-peak					

Supplementary information:

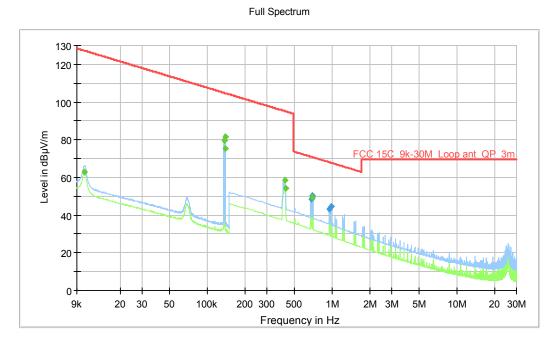
- The limits decrease linearly with the logarithm of the frequency.
 At transitional frequencies the lower limit applies.

Measurement uncertainty is calculated in accordance with EN 55016-4-2:2011.

The measurement uncertainty is given with a confidence of 95 %.



7.1 Test results, Radiated disturbances, 0,009 – 30 MHz, mode no. 1



Diagram, Peak overview sweep

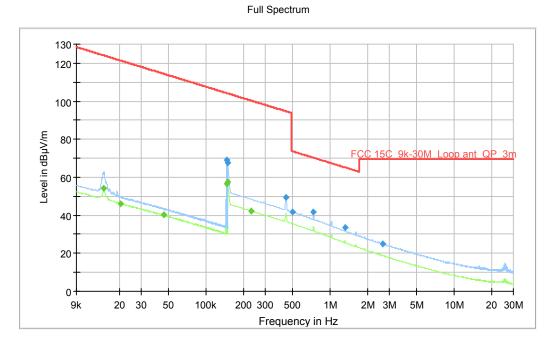
Measurement results, Quasi-peak and Average

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol
0.010		62.98	128.30	65.32	1500.0	0.2	٧
0.136		79.72	104.95	25.23	1500.0	0.2	٧
0.139		81.58	104.74	23.14	1500.0	0.2	V
0.139		75.39	104.74	29.35	1500.0	0.2	Н
0.418		58.56	95.30	36.74	1000.0	9.0	٧
0.422		54.10	95.10	41.00	1000.0	9.0	٧
0.679	48.56		70.97	22.41	1000.0	9.0	٧
0.697	50.40		70.74	20.35	1000.0	9.0	٧
0.949	43.38		68.06	24.68	1000.0	9.0	٧
0.976	44.50		67.82	23.32	1000.0	9.0	٧

All measured disturbances have a margin of more than 20 dB to the limits.



7.2 Test results, Radiated disturbances, 0,009 – 30 MHz, mode no. 2



Diagram, Peak overview sweep

Measurement results, Quasi-peak and Average

Frequency	QuasiPeak	Average	Limit	Margin	Meas. Time	Bandwidth	Pol
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(ms)	(kHz)	
0.015		54.31	127.00	72.69	1500.0	0.2	٧
0.020		46.06	125.80	79.74	1500.0	0.2	H
0.046		40.06	119.40	79.34	1500.0	0.2	٧
0.147		68.94	104.27	35.33	1500.0	0.2	V
0.147		56.46	104.27	47.81	1500.0	0.2	٧
0.150		57.33	104.08	46.75	1000.0	9.0	٧
0.150		67.55	104.08	36.53	1000.0	9.0	٧
0.231		42.36	101.70	59.34	1000.0	9.0	٧
0.440		49.54	94.73	45.19	1000.0	9.0	٧
0.494	41.78		73.73	31.95	1000.0	9.0	٧
0.735	41.63		70.28	28.65	1000.0	9.0	٧
1.322	33.48		65.18	31.70	1000.0	9.0	٧
2.634	25.06		69.50	44.44	1000.0	9.0	Н

All measured disturbances have a margin of more than 20 dB to the limits.



7.3 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Last Cal. date	Cal. interval
Measurement	Rohde &	EMC32 -			
software	Schwarz	Version			
Measurement	Rohde &	ESW 44	34030	July 2020	1 year
Receiver	Schwarz				-
Pulse limiter	Rohde &	ESH3-Z2	32457	July 2020	1 year
	Schwarz				-
Loop Antenna	EMCO	6502	8853	January 2019	3 year
Measurement cable	Suhner	RG 214/U	8911	May 2020	1 year
Measurement cable	Suhner	RG 214/U	9798	February 2021	1 year
Measurement cable	Rohde &	-	9206	February 2021	1 year
	Schwarz				-
Multimeter	Gossen	Metra Hit	8125	November	1 year
	Metrawatt	16S		2020	,
Temp/Hygro	Vaisala	HMI41	31215	June 2020	1 year