


EMC TEST REPORT FCC 47 CFR Part 15B, ISED ICES-003 Issue 6	
Report Reference No	G0M-2012-9542-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	 <p> DAKKS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A-2 DAKKS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970 </p>
Applicant	Sonova AG
Address	Laubisrütistraße 28 8712 Stäfa Switzerland
Test Specification Standard(s)	47 CFR Part 15 Subpart B ISED ICES-003 Issue 6 ANSI C63.4:2014+A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	The Charger Case Go will be used for charging Hearing Instruments (HIs) inductively
Model(s)	Charger Case Go
Additional Model(s)	None
Brand Name(s)	Phonak
Hardware Version(s)	V3
Software Version(s)	v.1.0.43193
FCC-ID	KWC-CCG
IC	-
Test Result	PASSED

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
required by standard but not appl. to test object	N/A	
test object does meet the requirement	P(PASS)	
test object does not meet the requirement	F(FAIL)	
Testing:		
Date of receipt of test item	2021-02-10	
Report:		
Compiled by	Stephan Liebich	
Tested by (+ signature) (Responsible for Test)	Stephan Liebich	
Approved by (+ signature) (Test Lab Technician)	Matthias Handrik	
Date of Issue	2021-04-13	
Total number of pages	44	
General Remarks:		
<p>The test results presented in this report relate only to the object tested.</p> <p>The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p>		
Additional Comments:		
None		

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
T _{NOM}	Nominal operating temperature
V _{NOM}	Nominal supply voltage

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2021-04-13	Initial Release	--

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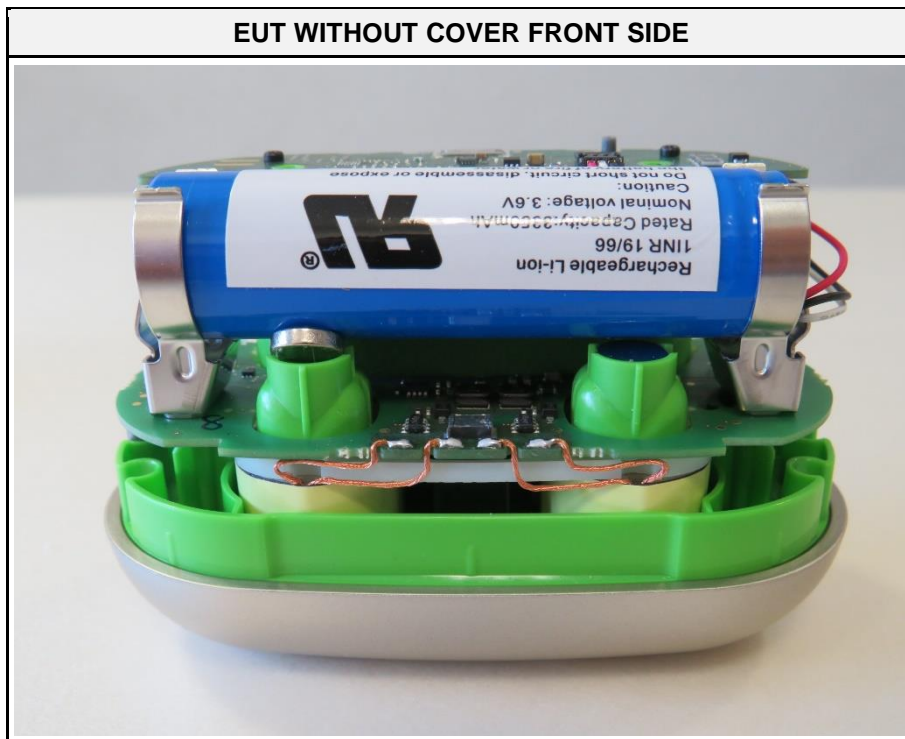
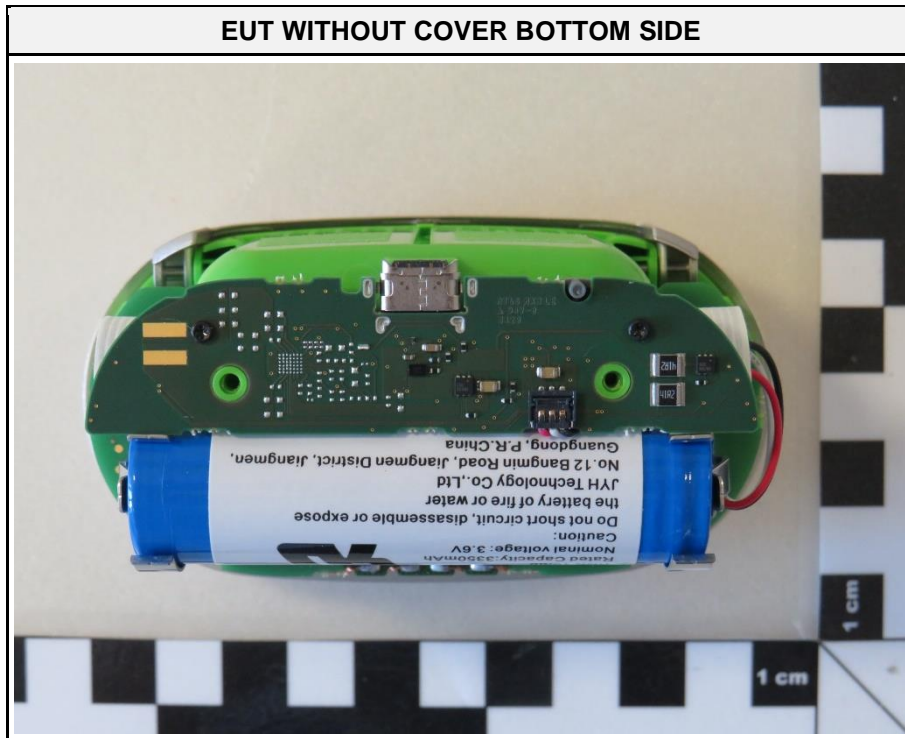
1 Equipment (Test Item) Under Test

Description	The Charger Case Go will be used for charging Hearing Instruments (HIs) inductively	
Model	Charger Case Go	
Additional Model(s)	None	
Brand Name(s)	Phonak	
Serial Number(s)	H2	
Sample ID	33186	
Hardware Version(s)	V3	
Software Version(s)	v.1.0.43193	
FCC-ID	KWC-CCG	
IC	-	
Class	Class B	
Equipment type	Table top	
Highest internal frequency [MHz]	48	
Radio Module	None	
Supply Voltage	V_{NOM}	3.6 V DC by internal Lithium battery 5.0 V DC via dedicated AC-DC-Adaptor
AC/DC-Adaptor	Model	PS06H050K1000EU
	Vendor	FLYPOWER
	Input	100 – 240 V AC
	Output	5.0 V DC
Manufacturer	Sonova AG Laubisrütistraße 28 8712 Stäfa Switzerland	

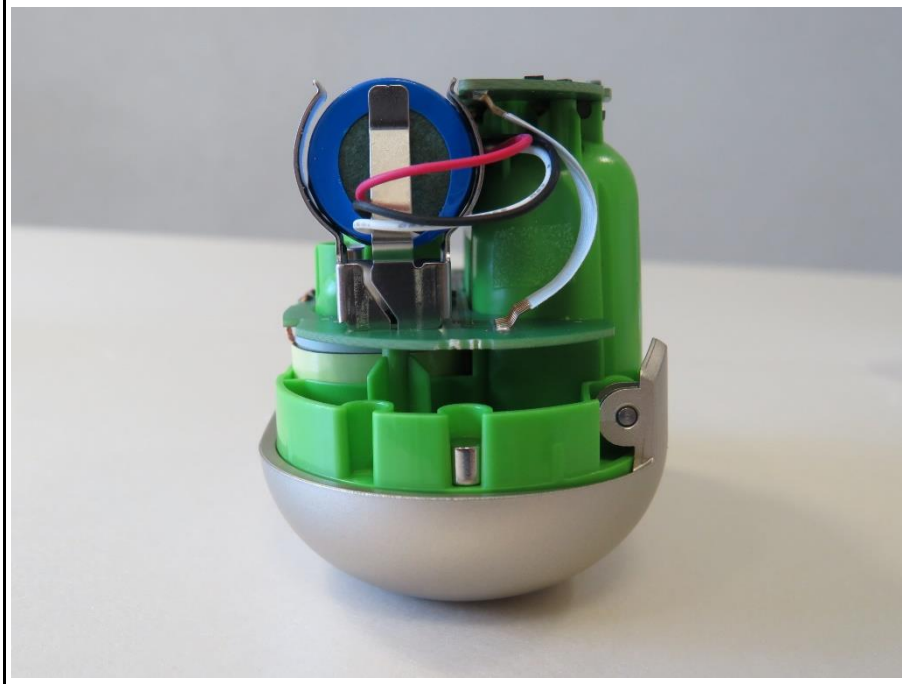
1.1 Equipment Ports

Name	Type	Attributes	Comment
AC Mains	AC	Count: 1 Direction: In Service only: No	Port of dedicated AC/DC-Adaptor
USB-C	IO	Count: 1 Direction: In Service only: No	Port for dedicated AC/DC-Adaptor, for charging use only
Description:			
AC	AC mains power input/output port		
DC	DC power input/output port		
BAT	DC power input port connected to external battery		
IO	Input/Output port		
TP	Telecommunication port		
NE	Non-electrical port		

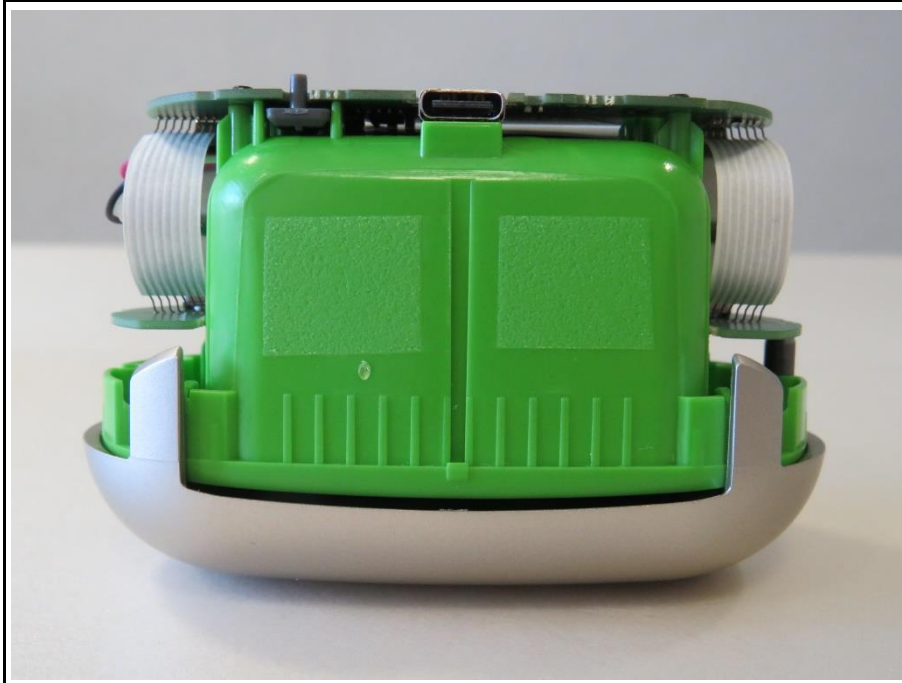
1.2 Equipment Photos - Internal



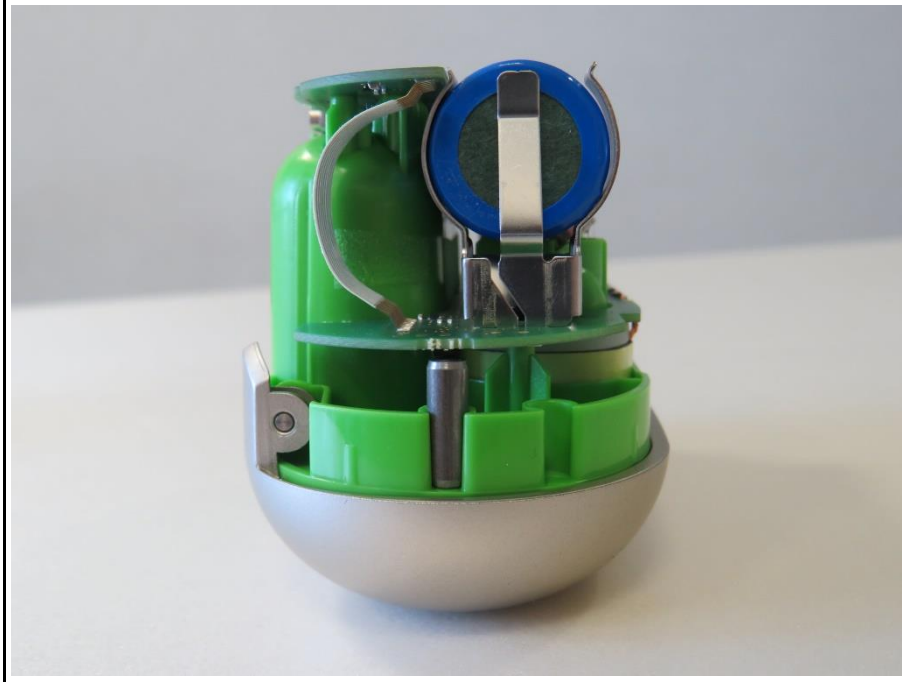
EUT WITHOUT COVER LEFT SIDE



EUT WITHOUT COVER REAR SIDE



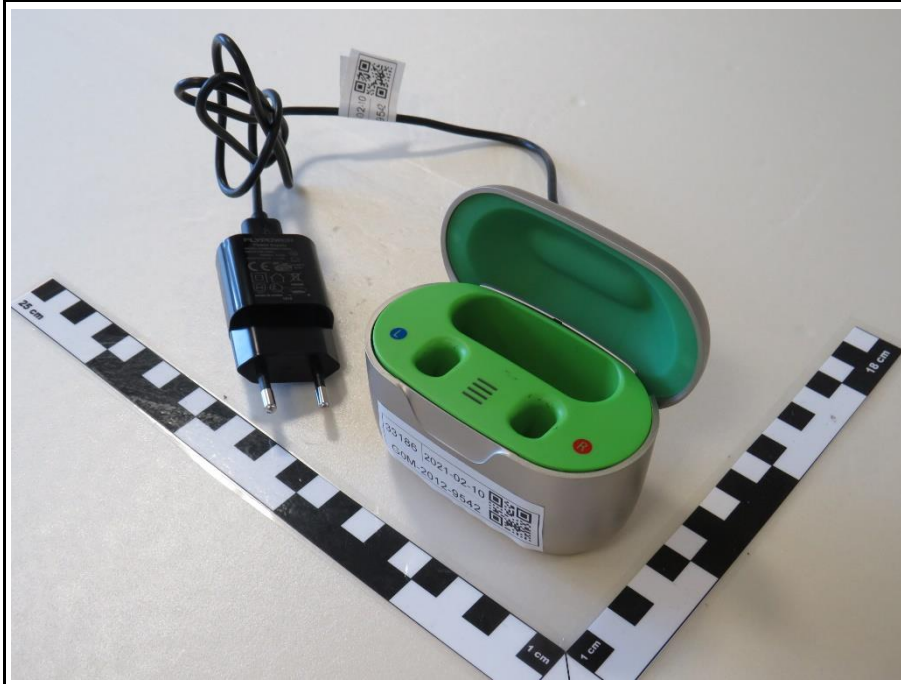
EUT WITHOUT COVER RIGHT SIDE



1.3 Equipment Photos - External



OPEN EUT WITH AC/DC-ADAPTOR IN PERSPECTIVE



EUT IN PERSPECTIVE I



EUT IN PERSPECTIVE II



OPEN EUT WITH HIS IN PERSPECTIVE



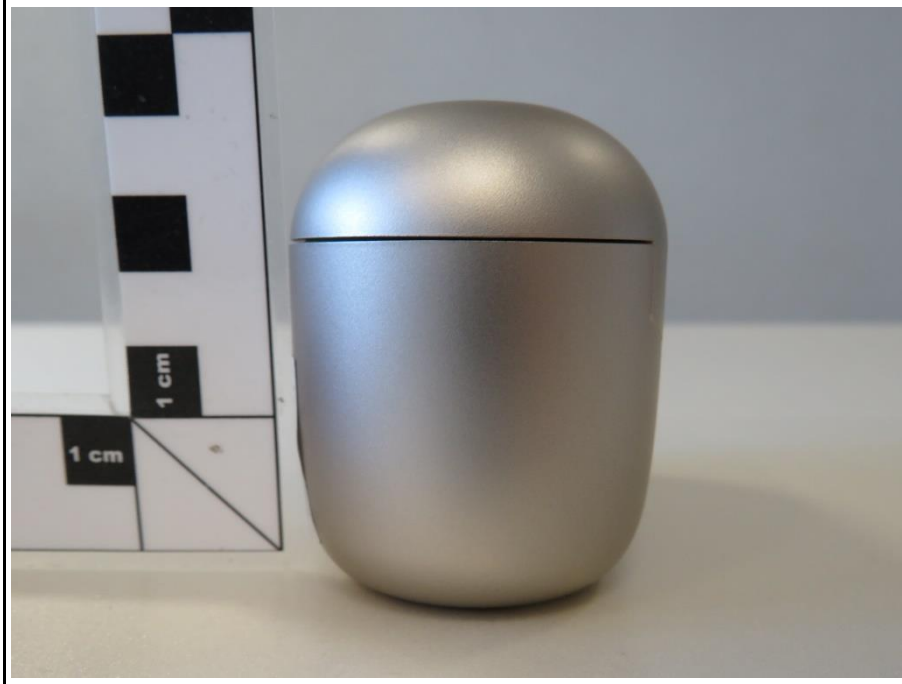
EUT FRONT SIDE



OPEN EUT FRONT SIDE

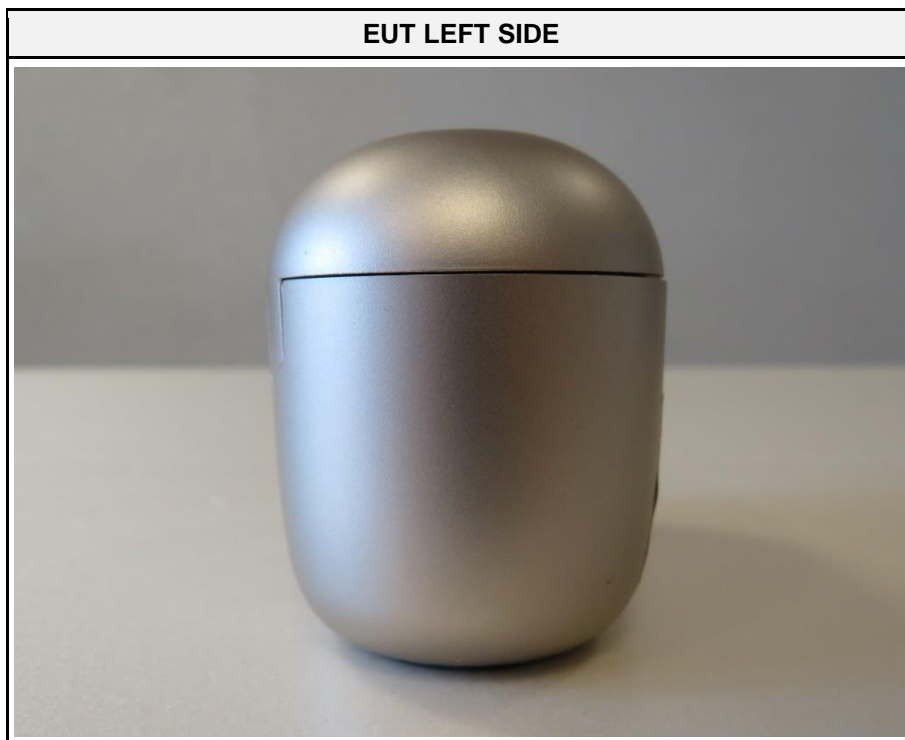
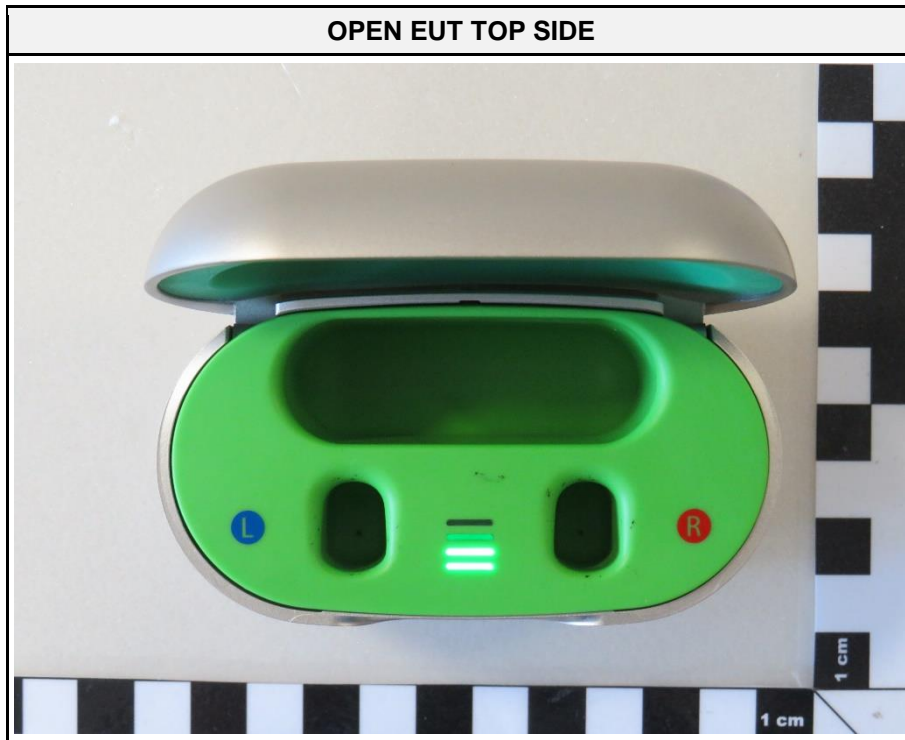


EUT RIGHT SIDE



EUT TOP SIDE





EUT REAR SIDE



EUT BOTTOM SIDE



EUT LABEL



AE: HI



AC/DC-ADAPTOR



AC/DC-ADAPTOR LABEL



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	HI1	Sonova	Mozart RIC RL	Dummy Hearing Aid
AE	HI2	Sonova	Mozart RIC RL	Dummy Hearing Aid
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
Comment:				

1.5 Operational Modes

Mode #	Description
1	Wireless Power Transmission TX/RX (HIs are inserted and Wireless Power Transmission is activated.)
2	Wireless Power Transmission TX/RX + battery charging (HIs are inserted and Wireless Power Transmission is activated. Internal Lithium battery is charging.)
Comment: --	

1.6 EUT Configuration

Configuration #	Description
1	EUT is powered by internal Lithium battery.
2	EUT is powered via dedicated AC/DC-Adapter by external laboratory power supply unit. Internal Lithium battery is inserted.
Comment: --	

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyser (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF	=	Net Reading	:	Net reading - FCC limit	=	Margin
+21.5 dBµV + 26 dB/m		= 47.5 dBµV/m		47.5 dBµV/m - 57.0 dBµV/m		= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15B, ISED ICES-003 Issue 6				
Reference	Requirement	Reference Method	Result	Remarks
Emission				
FCC 15.109 ICES-003, 6.2	Radiated emissions	ANSI C63.4:2014 +A1:2017	PASS	--
FCC 15.107 ICES-003, 6.1	AC power line conducted emissions	ANSI C63.4:2014 +A1:2017	PASS	--
Comment: --				

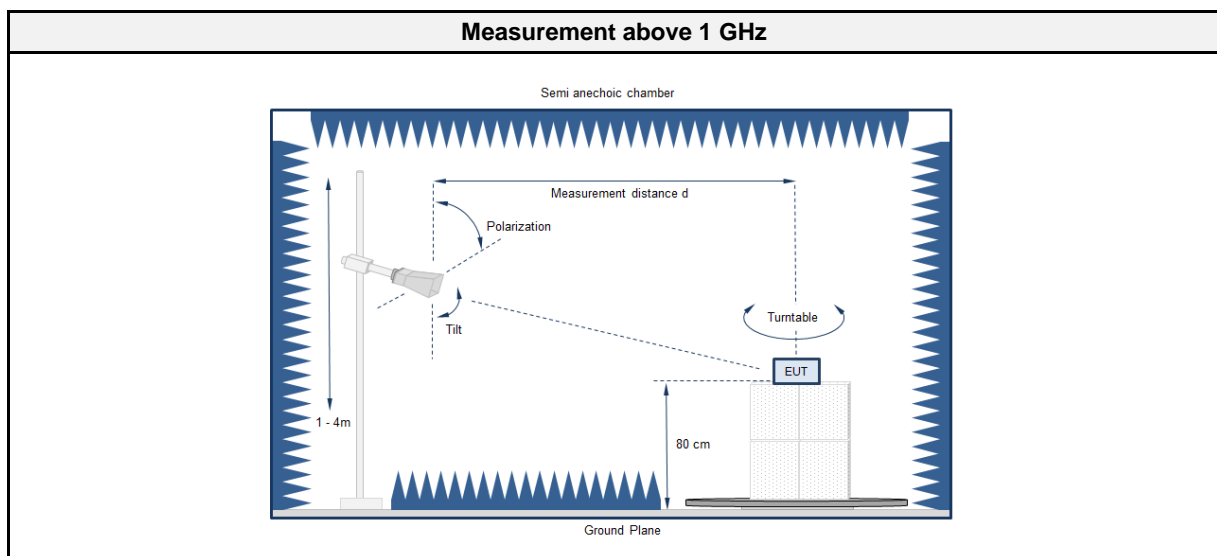
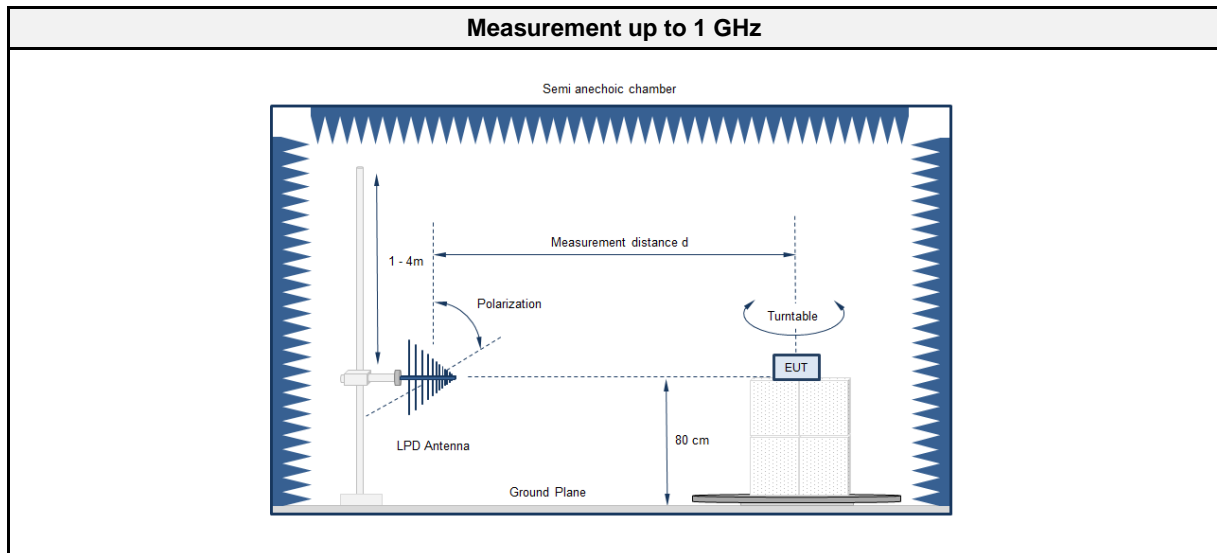
Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

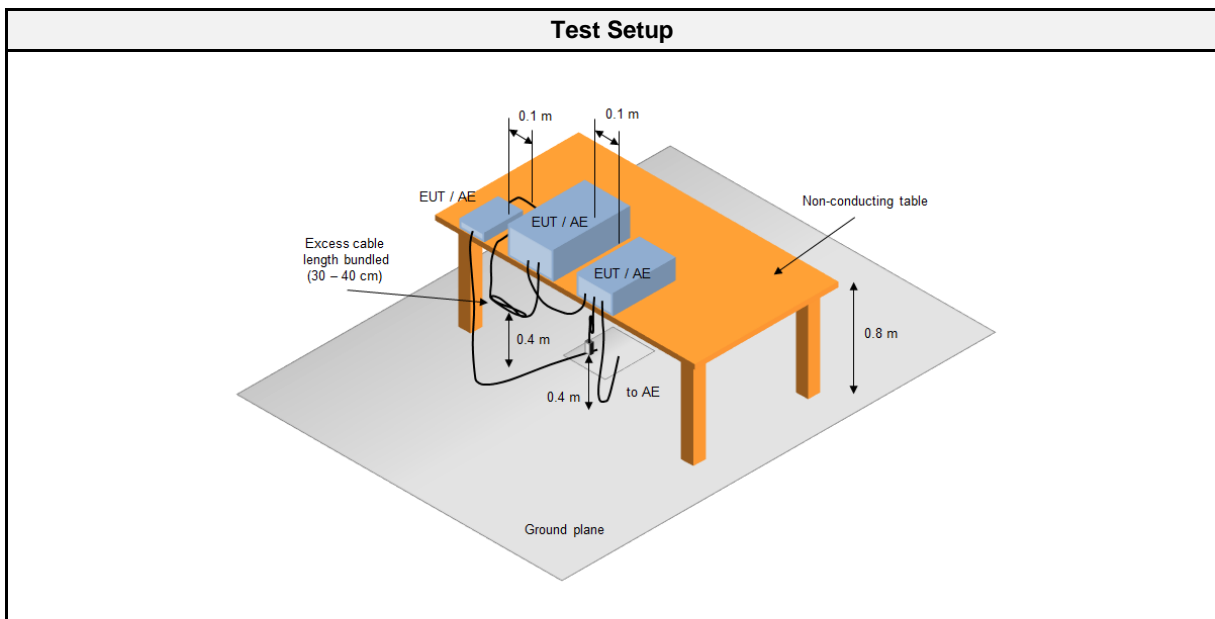
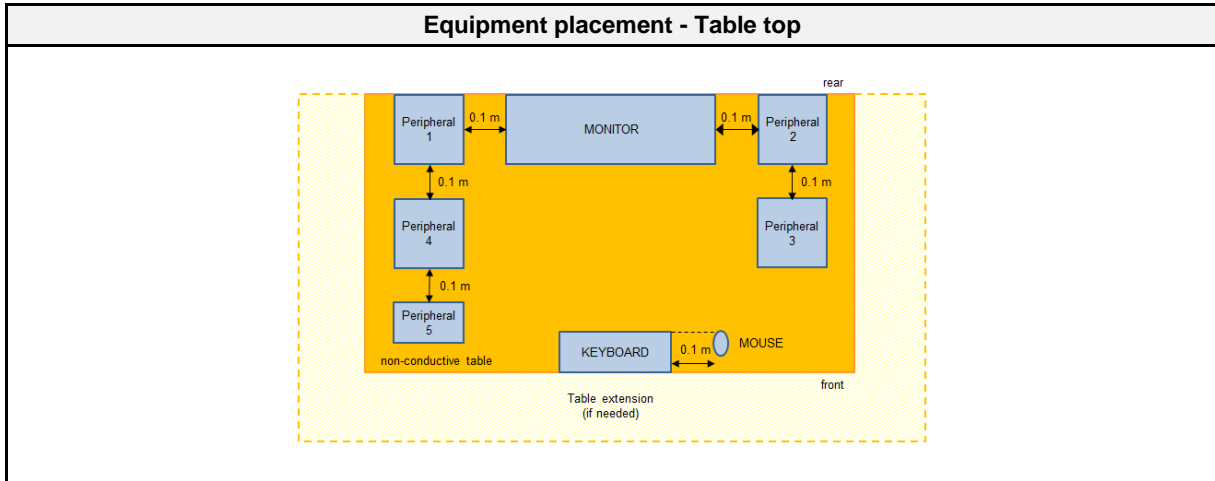
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

Test Information	
Reference	FCC 15.109, ICES-003, 6.2
Reference method	ANSI C63.4:2014+A1:2017 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	48
Measurement range	30 MHz to 1 GHz
Temperature [°C]	21 – 24
Humidity [%]	18 – 22
Operator	Stephan Liebich
Date	2021-03-08

2.1.2 Setup





2.1.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC1	EF00062	2018-07	2021-07
EMI Test Receiver	Keysight	N9038A-526/WXP	EF01070	2020-06	2021-06
Biconical Antenna	R&S	HK 116	EF00030	2019-04	2022-04
LPD Antenna	R&S	HL 223	EF00187	2019-05	2022-05
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2020-03	2021-03

2.1.4 Procedure

Exploratory measurement	
1.	The EUT was placed on a non-conductive table at a height of 0.8m.
2.	The EUT and support equipment, if needed, were set up to simulate typical usage.
3.	Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
4.	The antenna was placed at a distance of 3 or 10 m.
5.	The received signal was monitored at the measurement receiver.
6.	This procedure has to be performed in both antenna polarizations, horizontal and vertical.
7.	The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 1.3

Final measurement	
1.	The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver.
2.	A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast.
3.	The EUT and cable arrangement were based on the exploratory measurement results.
4.	Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
5.	The test data of the worst-case conditions were recorded and shown on the next pages.

2.1.5 Limits

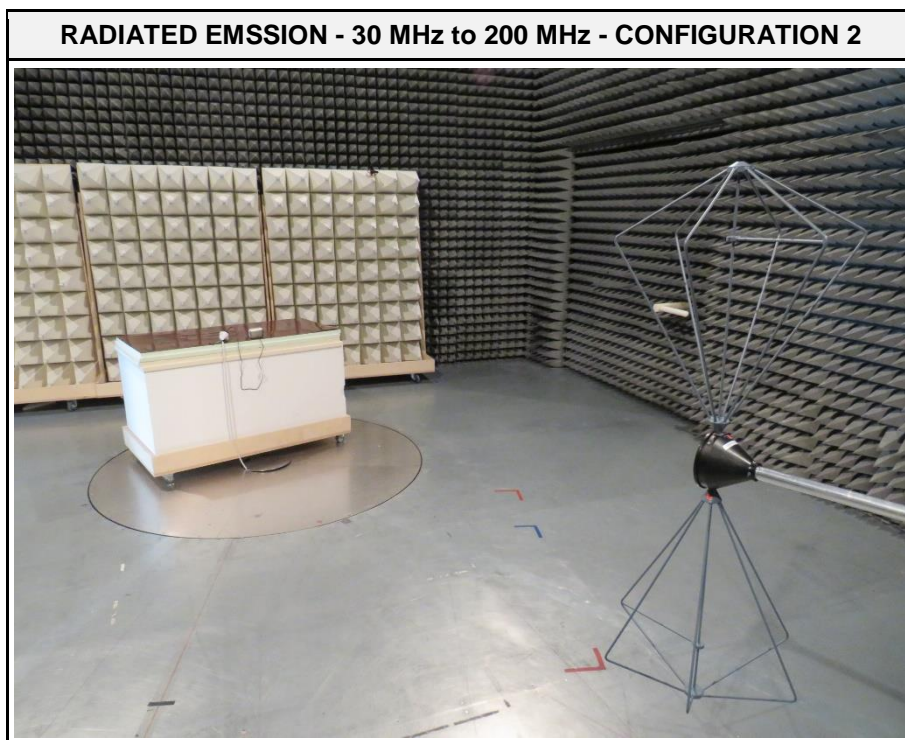
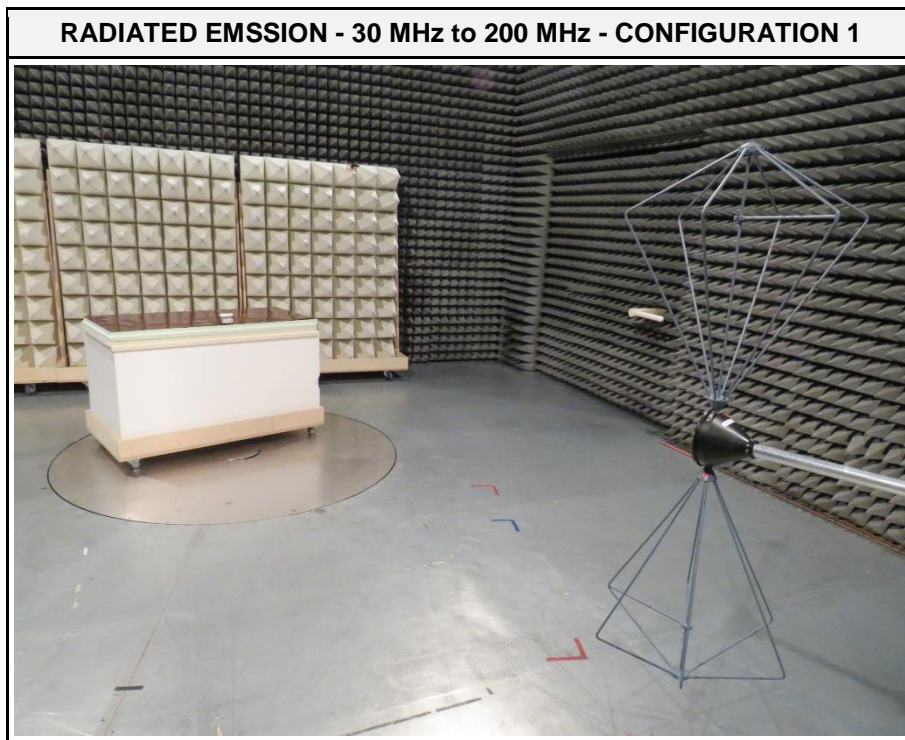
Class B @ 3 m		
Frequency [MHz]	Detector	Limit [dBµV/m]
30 - 88	Quasi-peak	40
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46
960 - 1000	Quasi-peak	54
> 1000	Peak Average	74 54

Class A @ 10 m		
Frequency [MHz]	Detector	Limit [dBµV/m]
30 - 88	Quasi-peak	39
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46.5
960 - 1000	Quasi-peak	49.5
> 1000	Peak Average	69.5 49.5

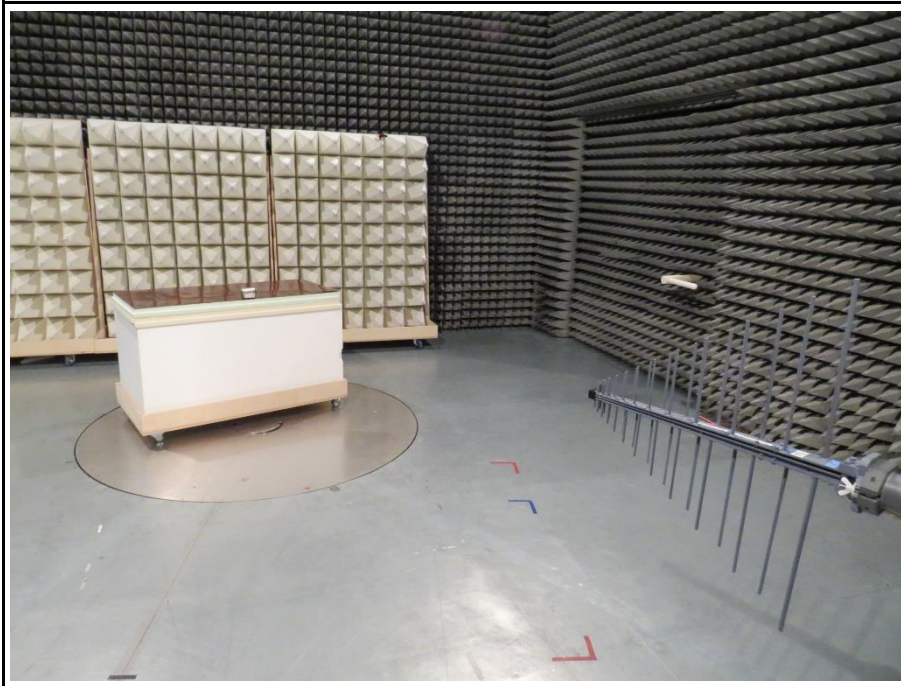
2.1.6 Results

Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	--
2	2	PASS	--

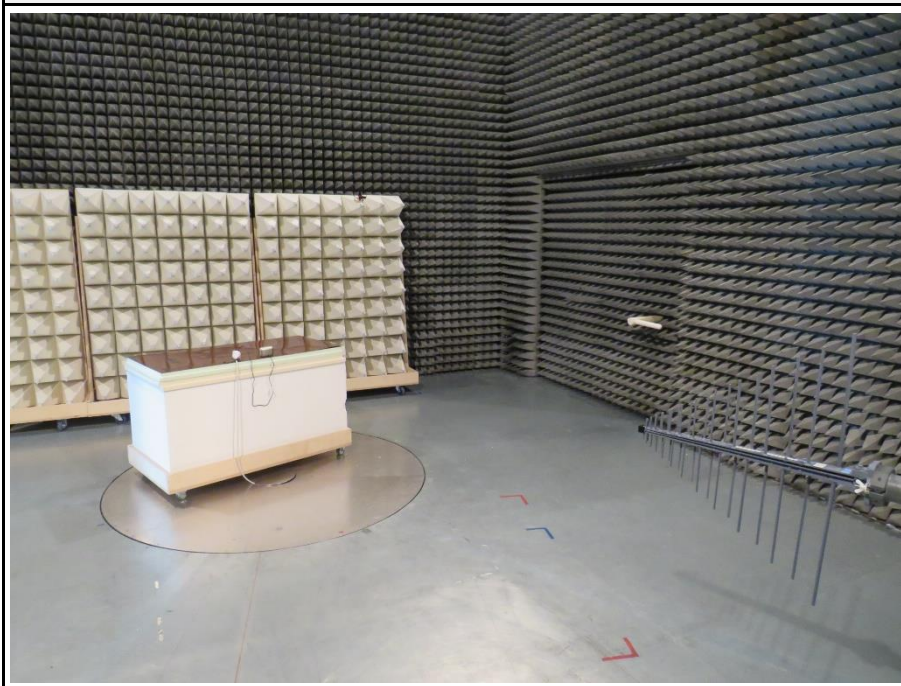
2.1.7 Setup Photos



RADIATED EMISSION - 200 MHz to 1000 MHz - CONFIGURATION 1



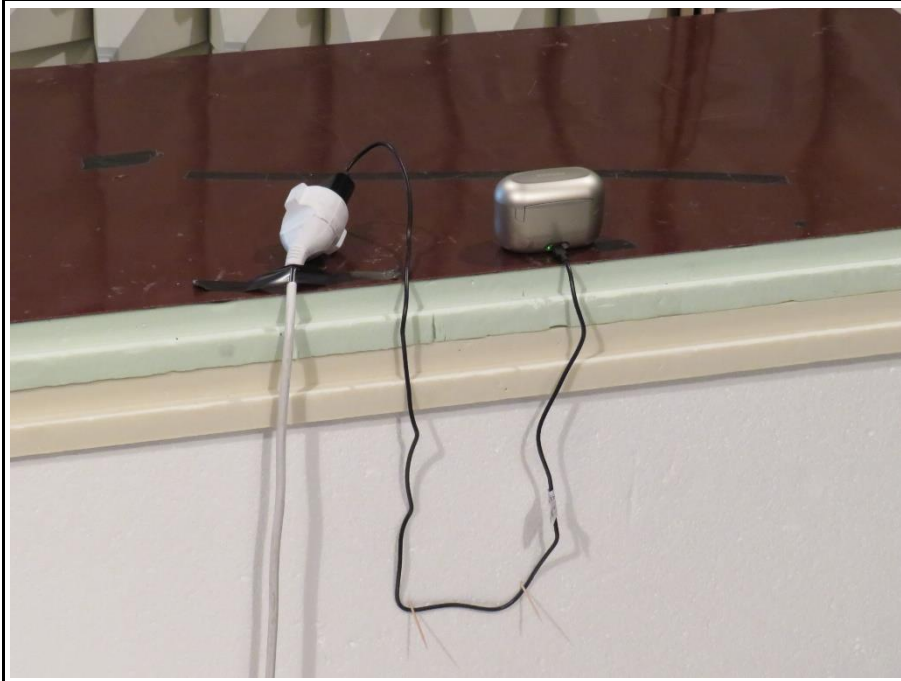
RADIATED EMISSION - 200 MHz to 1000 MHz - CONFIGURATION 2



RADIATED EMISSION - FOCUS - CONFIGURATION 1



RADIATED EMISSION - FOCUS - CONFIGURATION 2



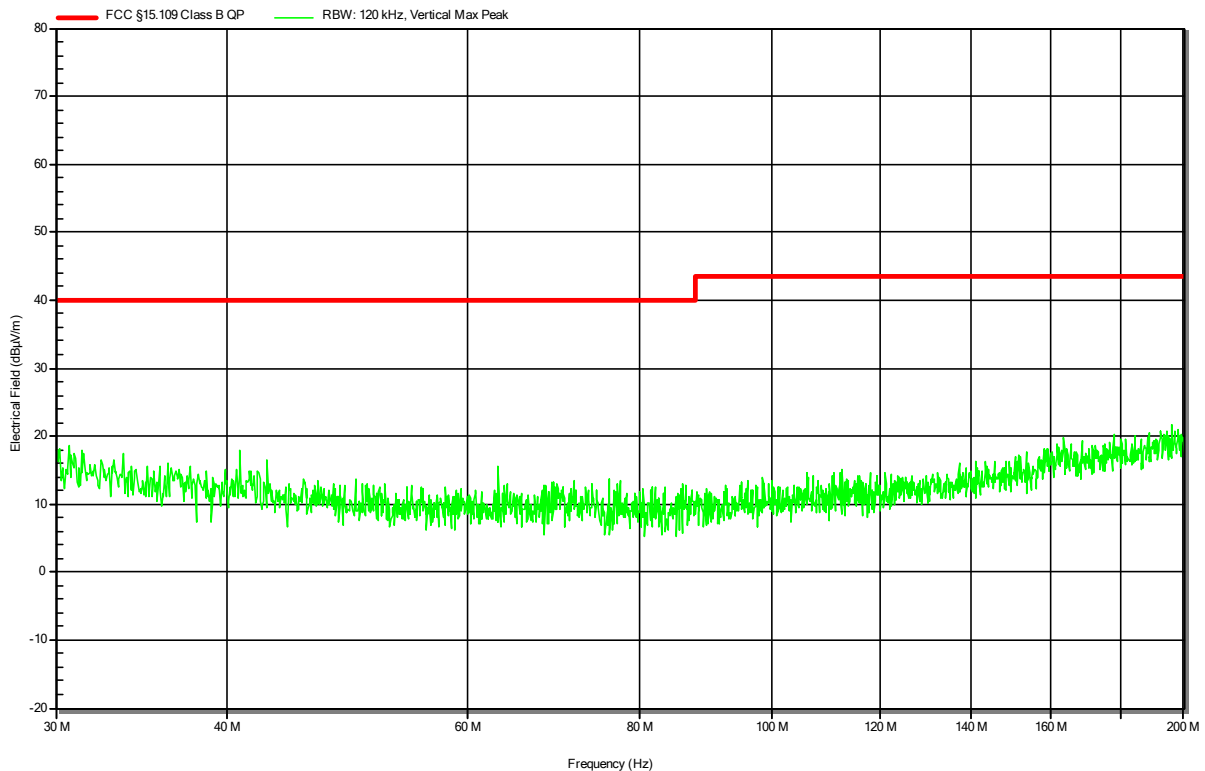
2.1.8 Records

Radiated emissions according to FCC part 15B

Project Number: G0M-2012-9542
 Applicant: Sonova AG
 Model Description: The Charger Case Go will be used for charging Hearing Instruments (HIs) inductively
 Model: Charger Case Go
 Test Sample ID: 33186
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2021-03-08
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 V DC by internal Lithium battery
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: Mode 1
 Configuration 1
 Note 1: --

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RadiMation

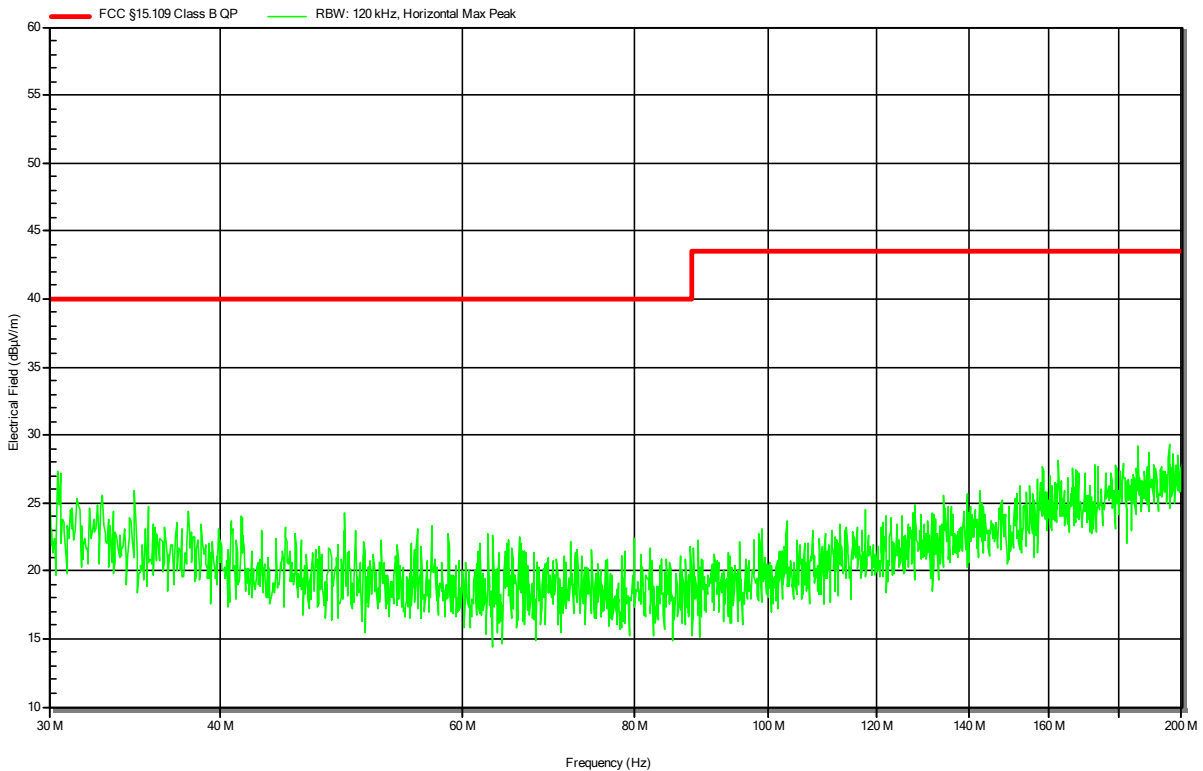


Radiated emissions according to FCC part 15B

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 Model Description: The Charger Case Go will be used for charging Hearing Instruments (HIs) inductively
 Model: Charger Case Go
 Test Sample ID: 33186
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2021-03-08
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 V DC by internal Lithium battery
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: Mode 1
 Configuration 1
 Note 1: --

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RadiMation

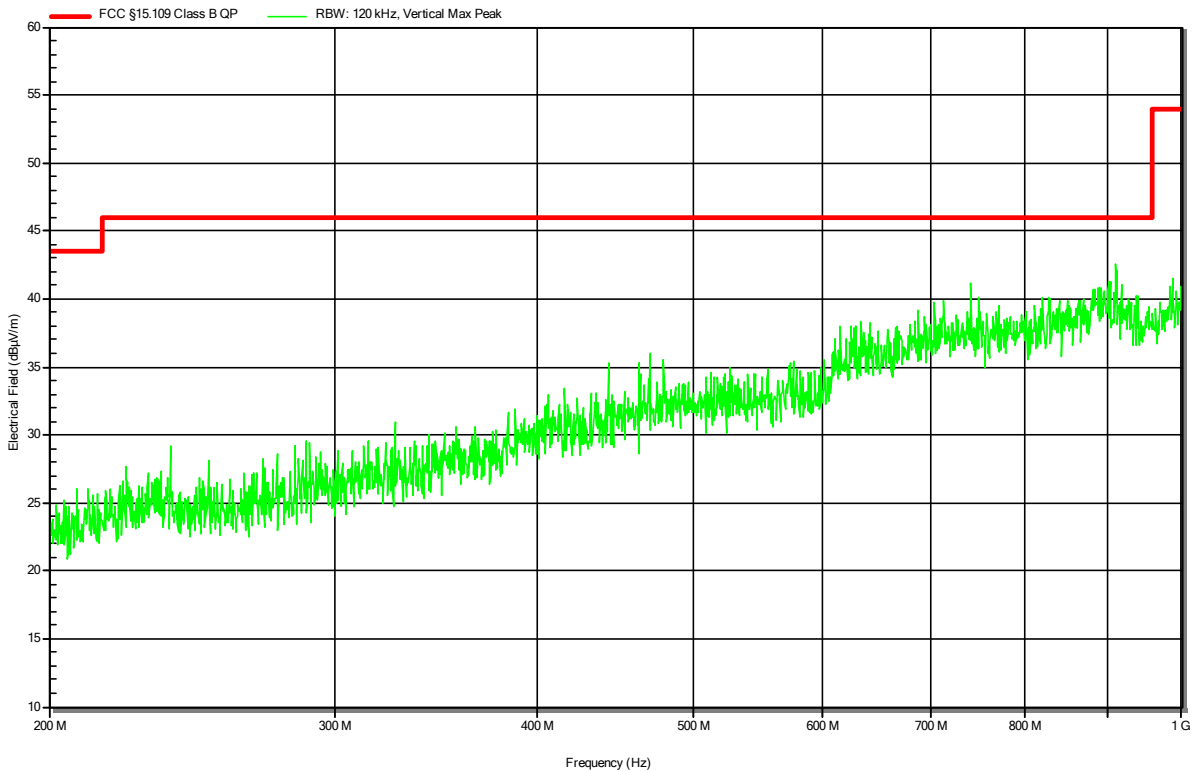


Radiated emissions according to FCC part 15B

Project Number:	G0M-2012-9542
Applicant:	Sonova AG
Model Description:	The Charger Case Go will be used for charging Hearing Instruments (HIs) inductively
Model:	Charger Case Go
Test Sample ID:	33186
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-03-08
Operating Conditions:	ambient temperature: 23 °Celsius power input: 3.6 V DC by internal Lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 1 Configuration 1
Note 1:	--

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RadiMation

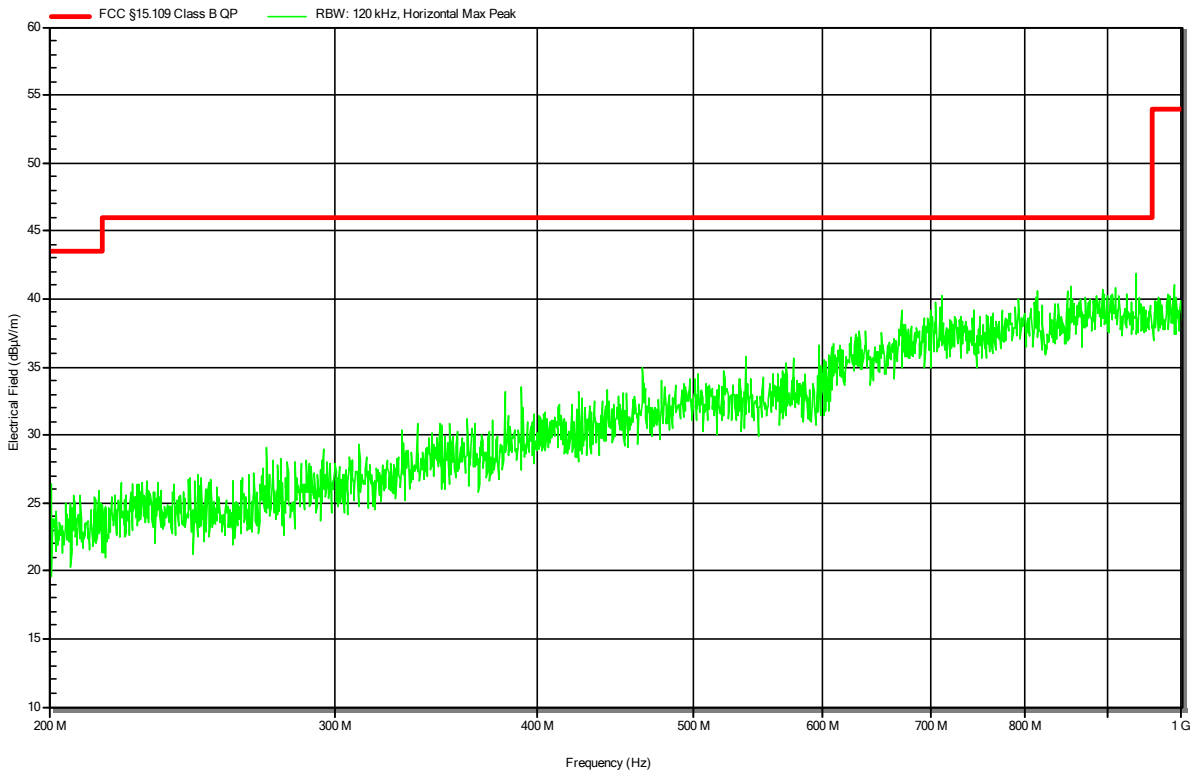


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 Model: Charger Case Go
 Test Sample ID: 33186
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2021-03-08
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 V DC by internal Lithium battery
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: Mode 1
 Configuration 1
 Note 1: --

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RadiMation

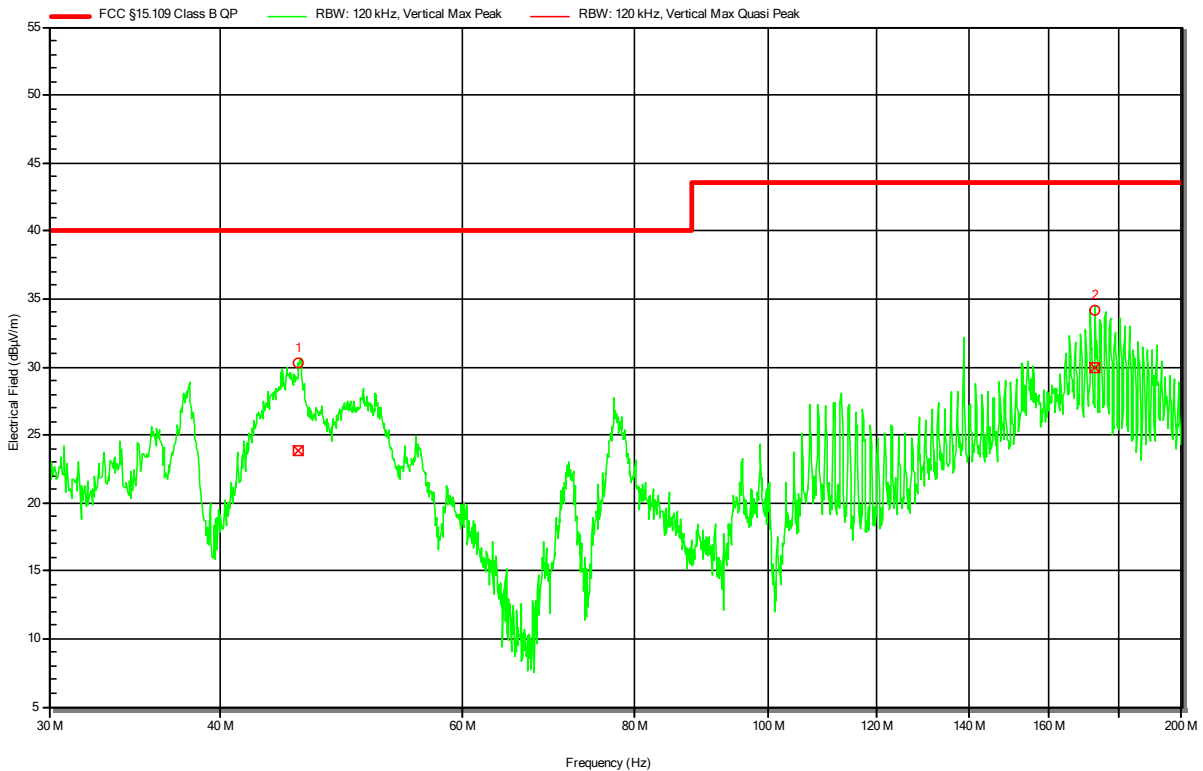


Radiated emissions according to FCC part 15B

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 Model: Charger Case Go
 Test Sample ID: 33186
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2021-03-08
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 120 V / 60 Hz
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: Mode 2
 Configuration 2
 Note 1: --

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RadiMation



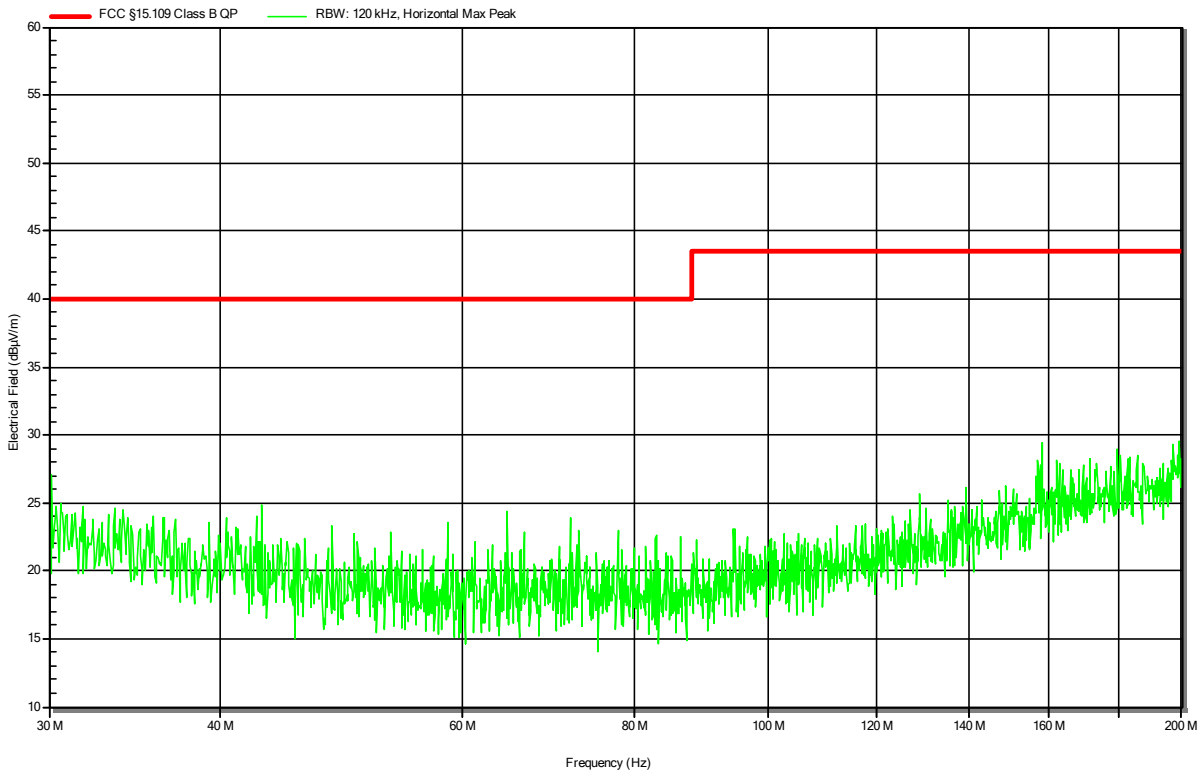
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	45.553 MHz	23.8 dBµV/m	40 dBµV/m	-16.2 dB	Pass	0 degrees	1 m
2	173.098 MHz	29.98 dBµV/m	43.52 dBµV/m	-13.54 dB	Pass	0 degrees	1 m

Radiated emissions according to FCC part 15B

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 Model: Charger Case Go
 Test Sample ID: 33186
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2021-03-08
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 120 V / 60 Hz
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: Mode 2
 Configuration 2
 Note 1: --

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RadiMation

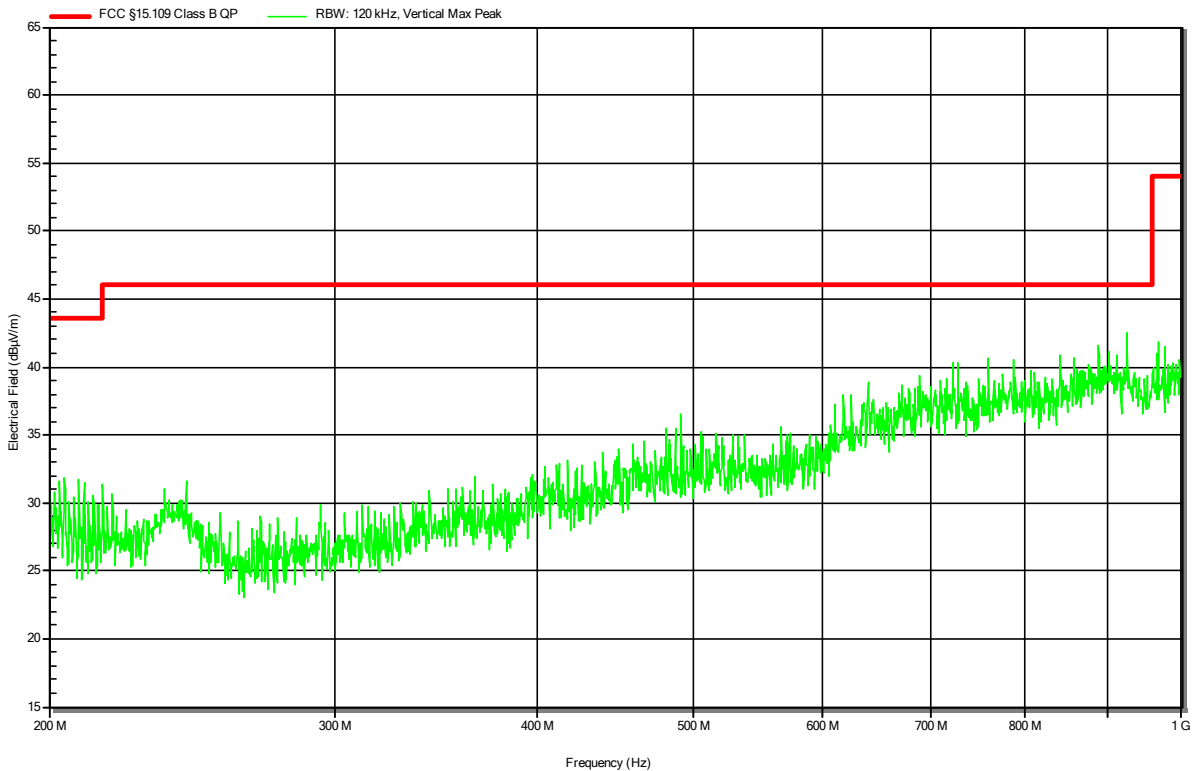


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 Model: Charger Case Go
 Test Sample ID: 33186
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2021-03-08
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 120 V / 60 Hz
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: Mode 2
 Configuration 2
 Note 1: --

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RadiMation

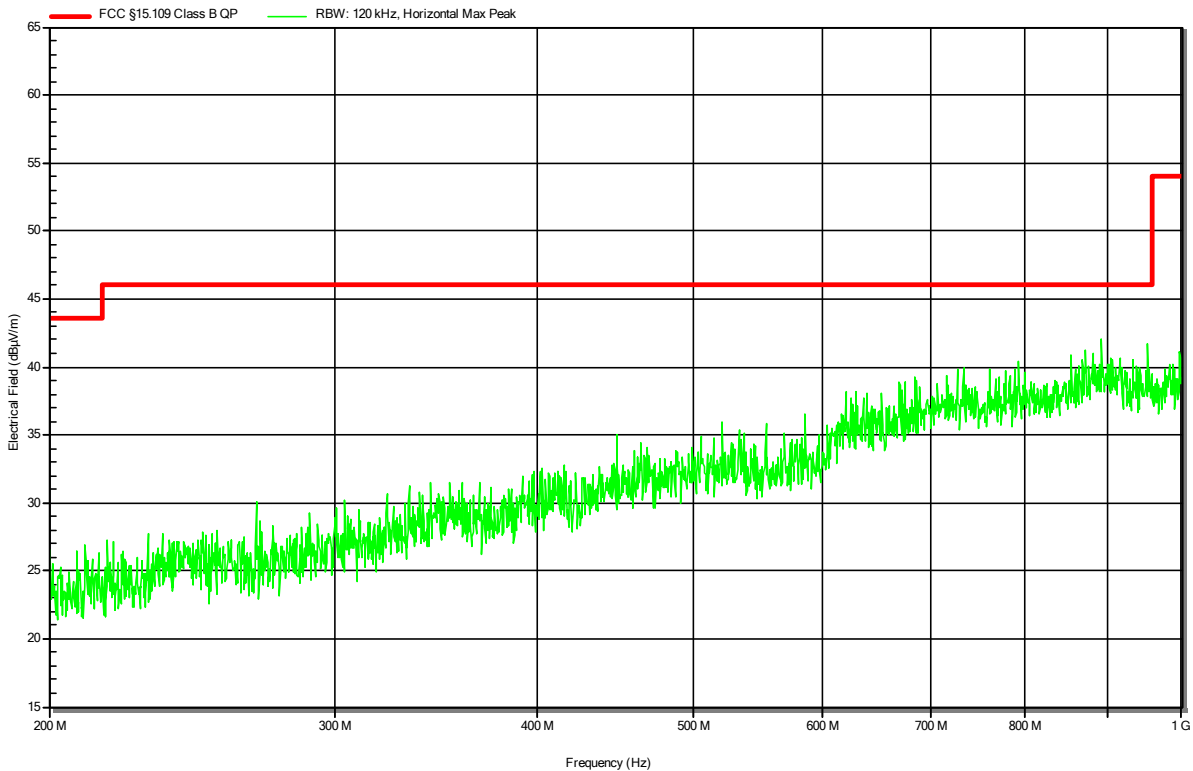


Radiated emissions according to FCC part 15B

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 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: Mode 2
 Configuration 2
 Note 1: --

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RadiMation

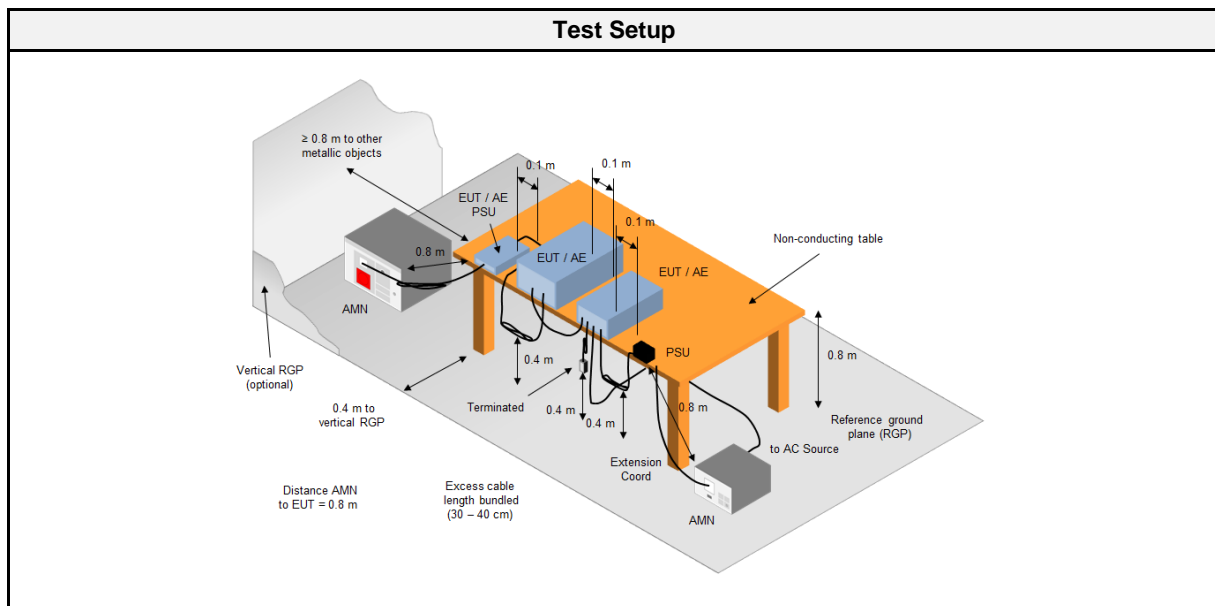
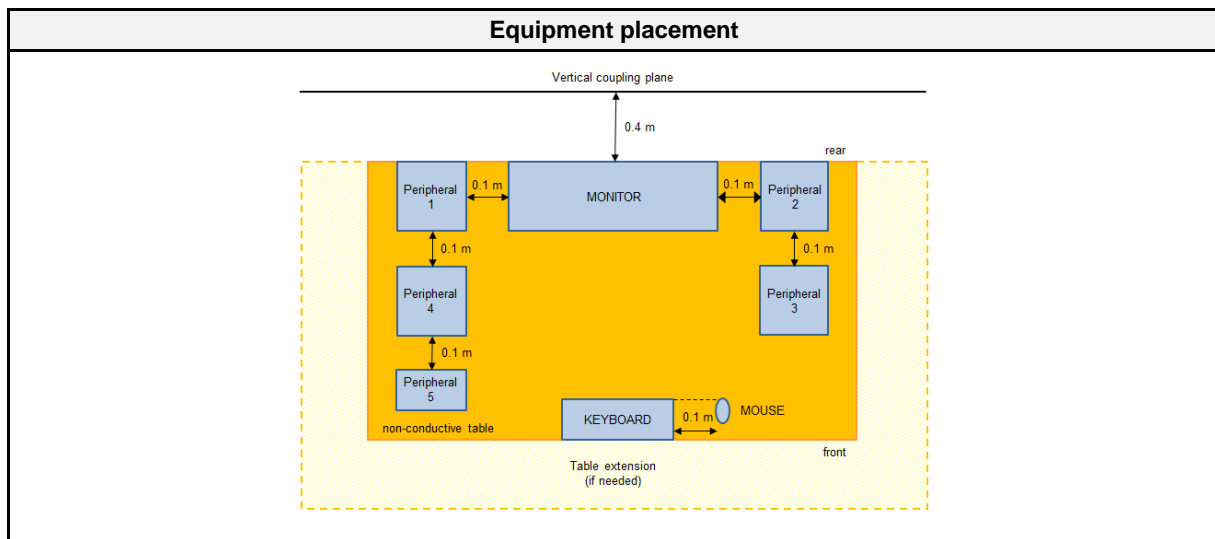


2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

2.2.1 Information

Test Information	
Reference	FCC 15.107, ICES-003, 6.1
Reference method	ANSI C63.4:2014+A1:2017 Section 12
Measurement range	150 kHz to 30 MHz
Equipment class	Class B
Equipment type	Table top
Temperature [°C]	21 – 24
Humidity [%]	28 – 31
Operator	Stephan Liebich
Date	2021-02-22

2.2.2 Setup



2.2.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Pulse Limiter	R&S	ESH3-Z2	EF01222	2020-07	2021-07
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2020-07	2021-07
EMI Test Receiver	R&S	ESR 7	EF00943	2020-07	2021-07
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2020-03	2021-03

2.2.4 Procedure

Exploratory measurement
<ol style="list-style-type: none"> The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). The LISN measurement port was connected to a measurement receiver I/O cables were bundled not longer than 0.4 m Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor To maximize the emissions the cable positions were manipulated The worst configuration of EUT and cables is shown on a test setup picture at item 1.3

Final measurement
<ol style="list-style-type: none"> The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). The LISN measurement port was connected to a measurement receiver The EUT and cable arrangement were based on the exploratory measurement results The test data of the worst-case conditions were recorded and shown on the next pages

2.2.5 Limits

Class B		
Frequency [MHz]	Quasi-peak Limit [dB μ V]	Average Limit [dB μ V]
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency

2.2.6 Results

AC power line conducted emissions					
Port	Coupling	Operational mode	EUT Configuration	Verdict	Remark
AC Mains	AMN	2	2	PASS	--

2.2.7 Setup Photos

CONDUCTED EMISSION ON PORT AC MAINS – CONFIGURATION 2



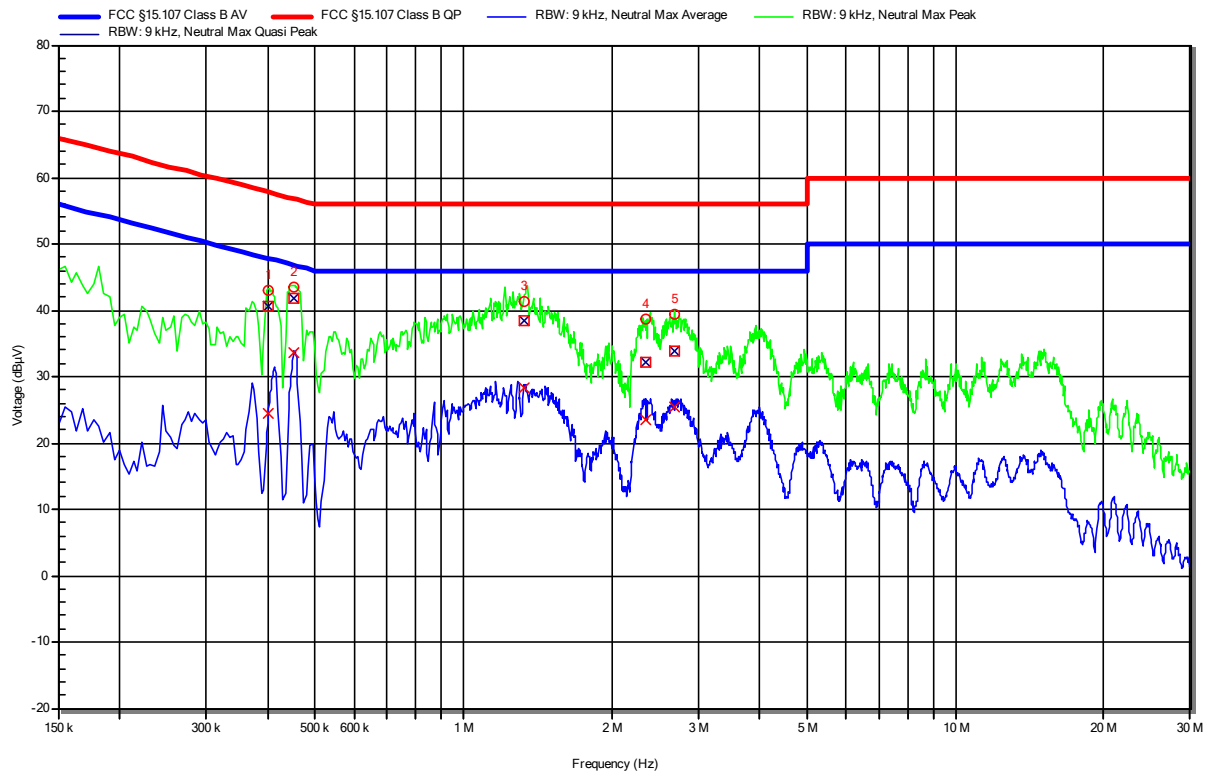
2.2.8 Records

Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2012-9542
 Applicant: Sonova AG
 Model Description: The Charger Case Go will be used for charging Hearing Instruments (HIs) inductively
 Model: Charger Case Go
 Test Sample ID: 33186
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2021-02-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 120 V / 60 Hz
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode & EUT Configuration: Mode 2
 Configuration 2
 Applied to Port: AC Mains
 Note 1: --

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RadiMation

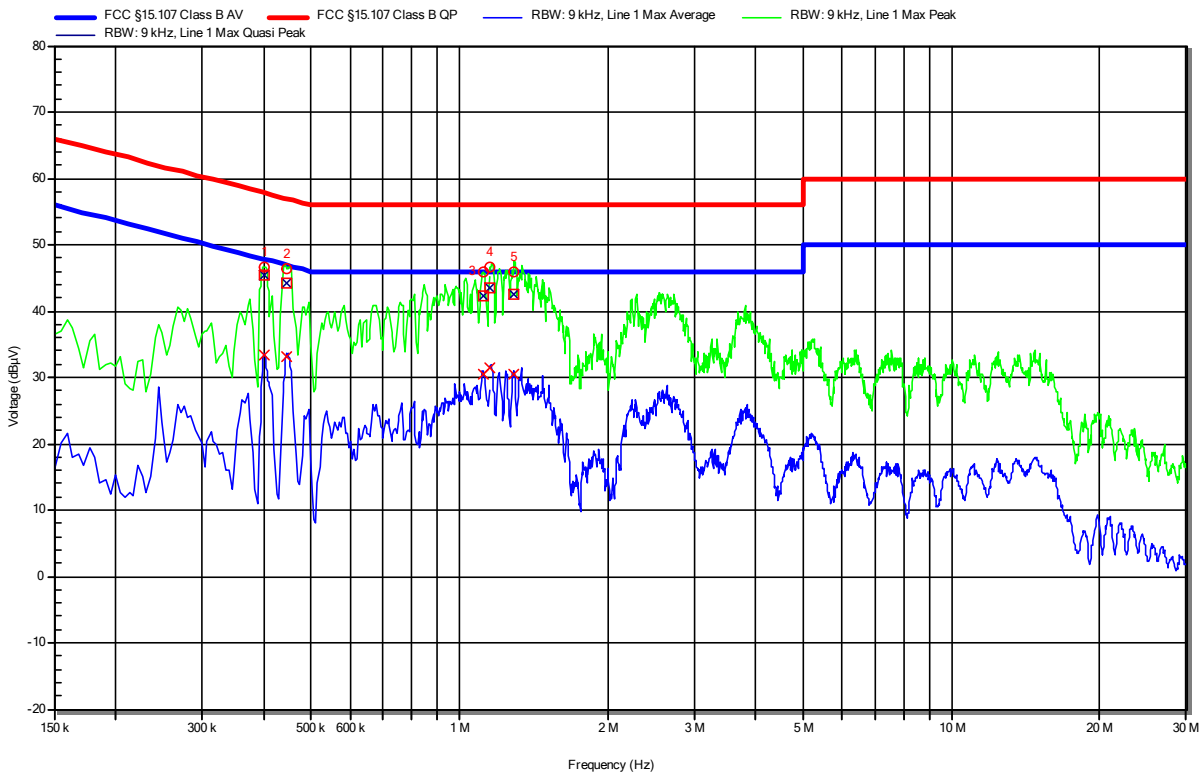


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	401.55 kHz	40.63 dB μ V	57.82 dB μ V	-17.19 dB	Pass	Neutral
2	453.75 kHz	41.86 dB μ V	56.81 dB μ V	-14.95 dB	Pass	Neutral
3	1.333 MHz	38.41 dB μ V	56 dB μ V	-17.59 dB	Pass	Neutral
4	2.354 MHz	32.27 dB μ V	56 dB μ V	-23.73 dB	Pass	Neutral
5	2.688 MHz	33.91 dB μ V	56 dB μ V	-22.09 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	401.55 kHz	24.52 dB μ V	47.82 dB μ V	-23.3 dB	Pass	Neutral
2	453.75 kHz	33.52 dB μ V	46.81 dB μ V	-13.28 dB	Pass	Neutral
3	1.333 MHz	28.43 dB μ V	46 dB μ V	-17.57 dB	Pass	Neutral
4	2.354 MHz	23.48 dB μ V	46 dB μ V	-22.52 dB	Pass	Neutral
5	2.688 MHz	25.41 dB μ V	46 dB μ V	-20.59 dB	Pass	Neutral

Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2012-9542
 Applicant: Sonova AG
 Model Description: The Charger Case Go will be used for charging Hearing Instruments (HIs) inductively
 Model: Charger Case Go
 Test Sample ID: 33186
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2021-02-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 120 V / 60 Hz
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode & EUT Configuration: Mode 2
 Configuration 2
 Applied to Port: AC Mains
 Note 1: --



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	401.1 kHz	45.52 dB μ V	57.83 dB μ V	-12.31 dB	Pass	Line 1
2	447 kHz	44.16 dB μ V	56.93 dB μ V	-12.77 dB	Pass	Line 1
3	1.117 MHz	42.24 dB μ V	56 dB μ V	-13.76 dB	Pass	Line 1
4	1.153 MHz	43.48 dB μ V	56 dB μ V	-12.52 dB	Pass	Line 1
5	1.288 MHz	42.51 dB μ V	56 dB μ V	-13.49 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	401.1 kHz	33.3 dB μ V	47.83 dB μ V	-14.53 dB	Pass	Line 1
2	447 kHz	33.2 dB μ V	46.93 dB μ V	-13.73 dB	Pass	Line 1
3	1.117 MHz	30.59 dB μ V	46 dB μ V	-15.41 dB	Pass	Line 1
4	1.153 MHz	31.41 dB μ V	46 dB μ V	-14.59 dB	Pass	Line 1
5	1.288 MHz	30.47 dB μ V	46 dB μ V	-15.53 dB	Pass	Line 1