DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España
C.I.F. A29 507 456

Test report No:
NIE: 70131REM.003A1

Test report

**FCC Rules and Regulations CFR 47, Part 18, Subpart C (10-1-20 Edition)
RSS-216 Issue 2 (January 2016) Amendment 1 (September 2020)
and ICES-001 Issue 5 (Updated 6-2020)**

(*) Identification of item tested	Wireless charger for Hearing Aids
(*) Trademark	Phonak
(*) Model and /or type reference	Phonak Life Charger
Other identification of the product	HW version: 045-3643 SW version: n/a FCC ID: KWC-CCL IC: ---
(*) Features	Wireless charging at 125KHz
Manufacturer	Sonova AG Laubisruetistrasse 28 8712 - Stäfa - Switzerland
Test method requested, standard	FCC Rules and Regulations CFR 47, Part 18, Subpart C (10-1-20 Edition) RSS-216 Issue 2 (January 2016) Amendment 1 (September 2020) and ICES-001 Issue 5 (Updated 6-2020)
Summary	IN COMPLIANCE
Approved by (name / position & signature)	José Manuel Gómez Industrial & Automotive EMC Lab. Manager  Firmado digitalmente por 53680346W JOSE MANUEL GOMEZ (C:A29507456) Fecha: 2022.04.26 13:56:21 +02'00'
Date of issue	2022-03-16
Report template No	FDT08_23 (*) “Data provided by the client”

Index

Acronyms

Acronym ID	Acronym Description
Code	EMC Test Code
Freq Rng [L]	Frequency Range [Lower Limit]
Freq Rng [U]	Frequency Range [Upper Limit]
OM	Operation Mode
S/	Sample
V	Verdict

Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Testing and Certification S.A.U.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

The total uncertainty of the measurement system for the measured conducted disturbance characteristics of EUT from 150 kHz to 30 MHz is I = ± 3,9 dB for quasi-peak measurements, I = ± 3,2 dB for peak measurements (k = 2).

The total incertainty of the measurement system for the measured radiated disturbance characteristics of EUT from 9 kHz to 30 MHz is I= ± 5,08 dB for quasi-peak measurements, I= ± 5,0 dB for peak measurements (k=2)

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 30 MHz to 1000 MHz is I = ± 4,9 dB for quasi-peak measurements, I = ± 4,6 dB for peak measurements (k = 2)

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 1000 MHz to 26 GHz is I = ± 2,6 dB for peaks and average measurements (k = 2)

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested"

2. The sample consists of a Wireless charger for Hearing Aids. Wireless charger at 125KHz with no radio communication functionalities with the client device, model Phonak Life Charger.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Id	Control Number	Description	Model	Serial Nº	Date of Reception	Application
S/01	70131D_10.1	Charger	--	2101NY056	2022-01-28	Element Under Test
S/01	70131D_11.1	USB to USB-C cable	--	--	2022-01-28	Auxiliary Element
S/01	70131D_15.1	Hearing aid (left)	P30-RL	2133N17FL	2022-01-28	Auxiliary Element
S/01	70131D_16.1	Hearing aid (right)	P30-RL	2133N17FL	2022-01-28	Auxiliary Element

Notes referenced to samples during the project.

Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

<table>
<tr><td rowspan="7">Ports…… :</td><td rowspan="2">Port name and description</td><td colspan="4">Cable</td></tr>
<tr><td>Specified max length [m]</td><td>Attached during test</td><td>Shielded</td><td>Coupled to patient(3)</td></tr>
<tr><td>USB-C (only supply)</td><td>3</td><td>[X]</td><td>[X]</td><td>[ ]</td></tr>
<tr><td>.....</td><td>.....</td><td>[ ]</td><td>[ ]</td><td>[ ]</td></tr>
<tr><td>.....</td><td>.....</td><td>[ ]</td><td>[ ]</td><td>[ ]</td></tr>
<tr><td>.....</td><td>.....</td><td>[ ]</td><td>[ ]</td><td>[ ]</td></tr>
<tr><td>.....</td><td>.....</td><td>[ ]</td><td>[ ]</td><td>[ ]</td></tr>
<tr><td>Supplementary information to the ports…… :</td><td colspan="5">.....</td></tr>
<tr><td rowspan="6">Rated power supply .....:</td><td colspan="2" rowspan="2">Voltage and Frequency</td><td colspan="5">Reference poles</td></tr>
<tr><td>L1</td><td>L2</td><td>L3</td><td>N</td><td>PE</td></tr>
<tr><td>[ ]</td><td>AC: .....</td><td>[ ]</td><td>[ ]</td><td>[ ]</td><td>[ ]</td><td>[ ]</td></tr>
<tr><td>[ ]</td><td>AC: .....</td><td>[ ]</td><td>[ ]</td><td>[ ]</td><td>[ ]</td><td>[ ]</td></tr>
<tr><td>[X]</td><td colspan="5">DC: USB port. 5V DC</td></tr>
<tr><td>[ ]</td><td colspan="5">DC: .....</td></tr>
<tr><td>Rated Power .....:</td><td colspan="5">5W</td></tr>
<tr><td>Clock frequencies.....:</td><td colspan="5">n/a</td></tr>
<tr><td>Other parameters.....:</td><td colspan="5">125KHz inductive carrier</td></tr>
<tr><td>Software version .....:</td><td colspan="5">n/a</td></tr>
<tr><td>Hardware version.....:</td><td colspan="5">045-3643</td></tr>
<tr><td>Dimensions in cm (W x H x D) ....:</td><td colspan="5">.....</td></tr>
</table>

Mounting position .....:	[X]	Table top equipment		
	[ ]	Wall/Ceiling mounted equipment		
	[ ]	Floor standing equipment		
	[ ]	Hand-held equipment		
	[X]	Other: Transit-not operable		
Modules/parts.....:	Module/parts of test item		Type	Manufacturer
	.....		.....	.....
	.....		.....	.....
	.....		.....	.....
	.....		.....	.....
Accessories (not part of the test item) .....:	Description		Type	Manufacturer
	Power cable 1m (only for supply, no data comm)		USB-A to USB-C	.....
	Wallplug adapter		AC/5V USB	.....
	.....		.....	.....
	.....		.....	.....
	.....		.....	.....
	.....		.....	.....
Documents as provided by the applicant.....:	Description		File name	Issue date
	See shared folder		.....	.....
	.....		.....	.....
	.....		.....	.....
	.....		.....	.....

(3) Only for Medical Equipment

Identification of the client

Sonova AG
Laubisruetistrasse 28 8712
Stäfa - Switzerland

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2022-02-11
Date (finish)	2022-02-16

Document history

Report number	Date	Description
70131REM.003	2022-03-16	First release
70131REM.003A1	2022-04-26	Add Conducted emission and change in the Trademark and model name

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Raul Alfaya Ruiz and Verónica García Capilla.

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P

List of equipment used during the test

Control No.	Equipment	Model	Manufacturer	Next Calibration
6666	EMI TEST RECEIVER 2Hz-44GHz	ESW44	ROHDE AND SCHWARZ	2024-03-04
6607	ETHERNET TEMPERATURE AND HUMIDITY LOGGER	HWg-STE	HW GROUP	2022-04-06
5779	ETHERNET TEMPERATURE AND HUMIDITY LOGGER	HWg-STE	HW GROUP	2022-04-07
6815	HYBRID BILOG ANTENNA 30MHz-6GHz	3142E	ETS LINDGREN	2025-03-04
7614	SEMIANECHOIC ABSORBER LINED CHAMBER V	FACT 3 200 STP	ETS LINDGREN	--
6498	ACTIVE LOOP ANTENNA 9kHz-30MHz	FMZB 1519B	SCHWARZBECK	2024-04-06

Summary

Test Specification.	Requirement – Test case	Verdict	Remark
FCC 47 CFR Part 18 RSS-216	RE Radiated emission. Electromagnetic field measure	Pass	--
FCC 47 CFR Part 18 RSS-216	CE Continuous conducted emission	Pass	--
Supplementary information and remarks: None			

Appendix A: Test results

Appendix A context

Description of the operation modes

The operation modes described in this paragraph constitute a functionality of the sample under test for itself. Every operation mode takes a failure criteria for the immunity test that they were applying to it and a monitoring to guarantee performance of the same ones.

The operation modes used by the samples to which the present report refers, are shown in the following table:

Id	Description
OM/01	EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB)
OM/02	EUT ON. USB cable connected and charging two hearing aids. Power supply: 115Vac

Test standards version applied

The product standards and test standards applied for each test cases are shown in the following table:

Product Test Standard	Test standard	Requirement – Test case
FCC Rules and Regulations CFR 47, Part 18, Subpart C (10-1-20 Edition) RSS-216 Issue 2 (January 2016) Amendment 1 (September 2020) and ICES-001 Issue 5 (Updated 6-2020)	FCC Rules and Regulations CFR 47, Part 18, Subpart C (10-1-20 Edition) RSS-216 Issue 2 (January 2016) Amendment 1 (September 2020) and ICES-001 Issue 5 (Updated 6-2020)	RE Radiated emission. Electromagnetic field measure
FCC Rules and Regulations CFR 47, Part 18, Subpart C (10-1-20 Edition) RSS-216 Issue 2 (January 2016) Amendment 1 (September 2020) and ICES-001 Issue 5 (Updated 6-2020)	FCC Rules and Regulations CFR 47, Part 18, Subpart C (10-1-20 Edition) RSS-216 Issue 2 (January 2016) Amendment 1 (September 2020) and ICES-001 Issue 5 (Updated 6-2020)	CE Continuous conducted emission

Test Cases Details

FCC 47 CFR Part 18

RE Radiated emission. Electromagnetic field measure

Limits for FCC part 18.305

FREQUENCY RANGE	MEASURED FIELD LIMIT TO 3m (15uV-m 300m) Operating frequency=Any non-ISM frequency (below 500W). PEAK MEASUREMENT
9KHz to 30MHz	63.52 dBuV/m

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9kHz.	30MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9kHz.	400MHz.
30 to 500	Lowest frequency generated in the device of 25MHz. whichever is lower	Tenth harmonic or 1.000MHz. whichever is higher.
500 to 1.000	Lowest frequency generated in the device of 100MHz. whichever is lower	Tenth harmonic.
Above 1.000	……do	Tenth harmonic or highest detectable emission.

Limits for ISED RSS-216 Issue 2 and ICES001

Frequency range (MHz)	Measured field limit at 10m (dBµV/m) Quasi-Peak measurement	Measured field limit at 3m (dBµA/m) Quasi-Peak measurement
0.15 to 30	---	39 to 3*
30 to 80,872	30	---
80,872 to 81,848	50	---
81,848 to 134,786	30	---
134,786 to 136,414	50	---
136,414 to 230	30	---
230 to 1000	37	---

(*) Decreasing linearly with the logarithm of frequency.

Results

S/	OM	Code	Freq Rng [L] (MHz)	Freq Rng [U] (MHz)	V
01	OM/01	RE0101_ejeX	0.00900	0.15000	P
01	OM/01	RE0101_ejeX	0.00900	0.15000	P
01	OM/01	RE0101_ejeY	0.00900	0.15000	P
01	OM/01	RE0101_ejeY	0.00900	0.15000	P
01	OM/01	RE0101_ejeZ	0.00900	0.15000	P
01	OM/01	RE0101_ejeZ	0.00900	0.15000	P
01	OM/01	RE0101_ejeX	0.15000	30.00000	P
01	OM/01	RE0101_ejeX	0.15000	30.00000	P
01	OM/01	RE0101_ejeY	0.15000	30.00000	P
01	OM/01	RE0101_ejeY	0.15000	30.00000	P
01	OM/01	RE0101_ejeZ	0.15000	30.00000	P
01	OM/01	RE0101_ejeZ	0.15000	30.00000	P
01	OM/01	RE0101LR	30.00000	1000.00000	P
01	OM/01	RE0101LR	30.00000	1000.00000	P

Verdict

Pass

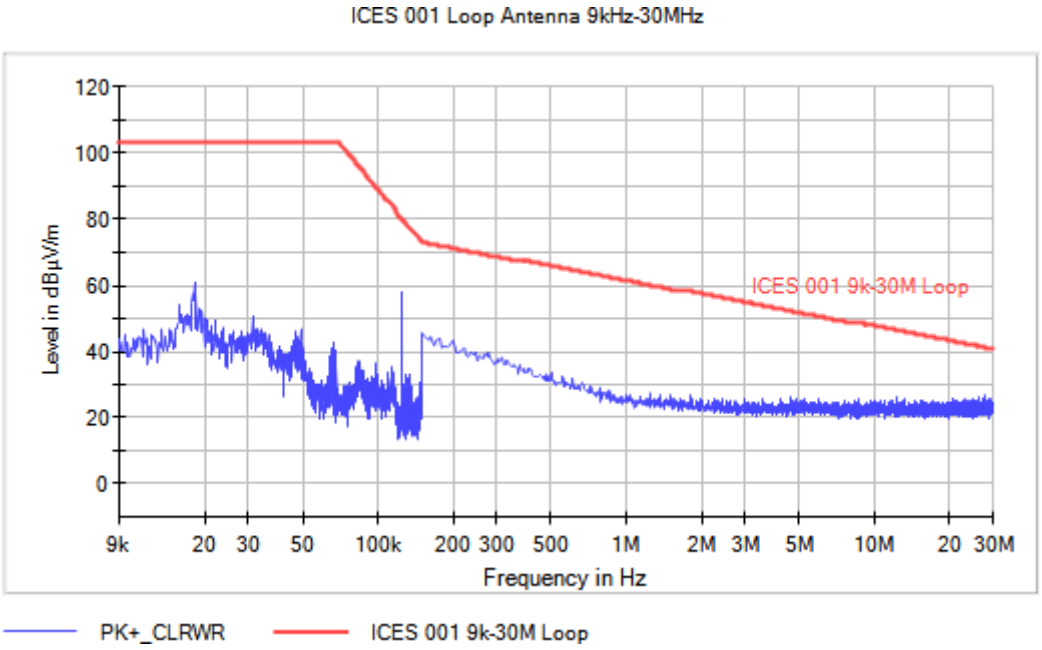
Attachments

EMC Test Code = RE0101_ejeX, Frequency Range [Lower Limit] MHz = 0.00900, Frequency Range [Upper Limit] MHz = 0.15000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

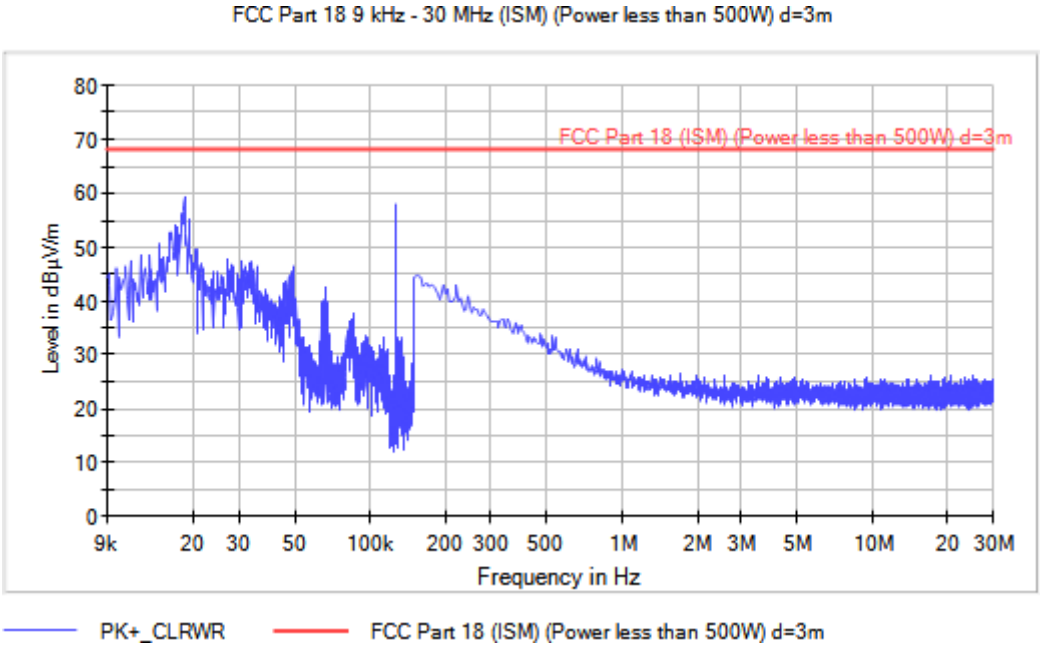
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018300	60.8
4.555500	26.1
8.664000	25.7
11.625000	25.5
12.309000	26.5
15.531000	25.4
20.647500	26.0
23.064000	25.5
26.763000	26.2
28.144500	27.1

EMC Test Code = RE0101_ejeX, Frequency Range [Lower Limit] MHz = 0.00900, Frequency Range [Upper Limit] MHz = 0.15000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

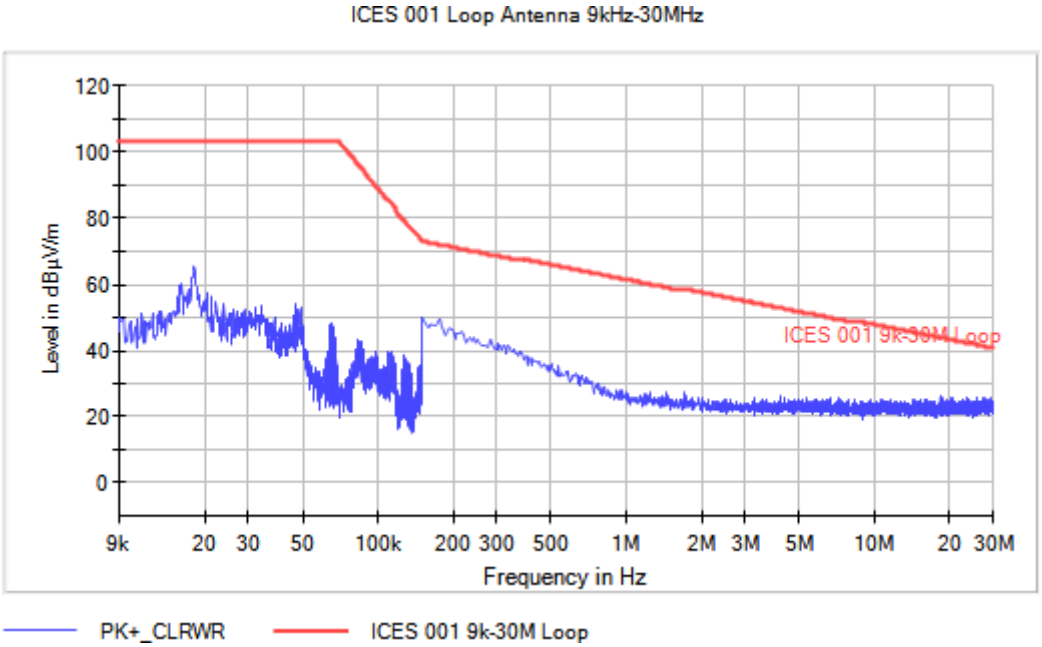
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018400	59.2
3.498000	26.2
8.335500	25.5
9.532500	25.7
13.654500	25.6
16.935000	26.2
20.593500	26.2
23.041500	25.8
24.940500	26.3
29.805000	25.6

EMC Test Code = RE0101_ejeY, Frequency Range [Lower Limit] MHz = 0.00900, Frequency Range [Upper Limit] MHz = 0.15000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

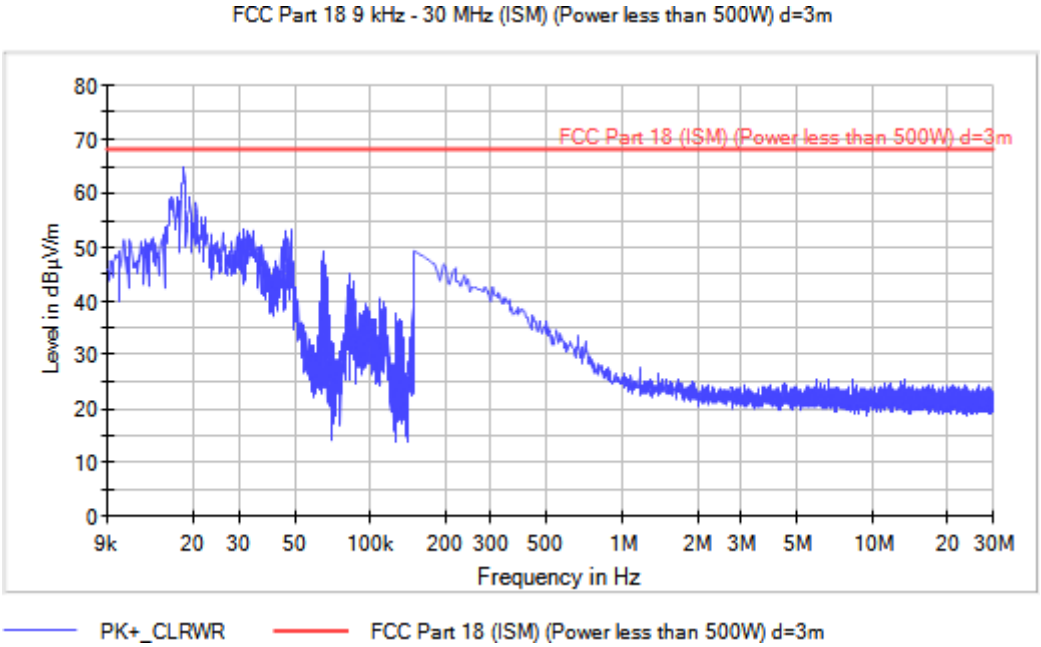
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018200	65.3
4.177500	26.2
7.165500	25.8
9.712500	25.2
14.235000	25.2
16.273500	25.2
18.249000	26.2
23.491500	25.6
25.435500	25.7
27.429000	25.9

EMC Test Code = RE0101_ejeY, Frequency Range [Lower Limit] MHz = 0.00900, Frequency Range [Upper Limit] MHz = 0.15000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

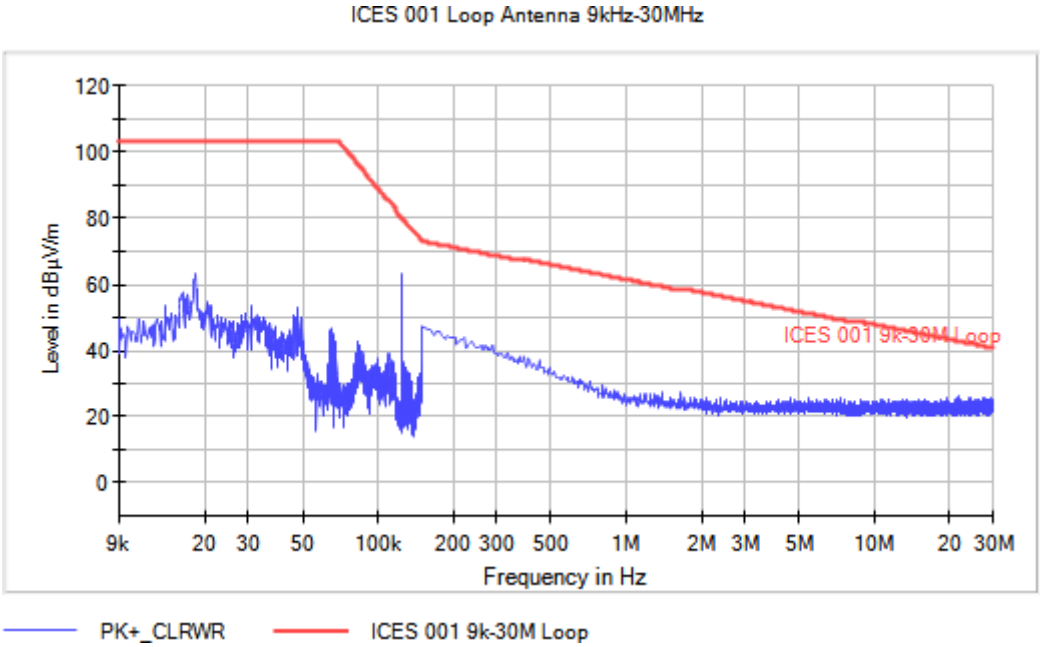
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018200	65.1
5.905500	25.5
8.187000	25.5
11.112000	24.7
13.353000	25.4
17.304000	24.6
20.926500	24.5
23.028000	24.5
26.601000	24.6
28.783500	24.0

EMC Test Code = RE0101_ejeZ, Frequency Range [Lower Limit] MHz = 0.00900, Frequency Range [Upper Limit] MHz = 0.15000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

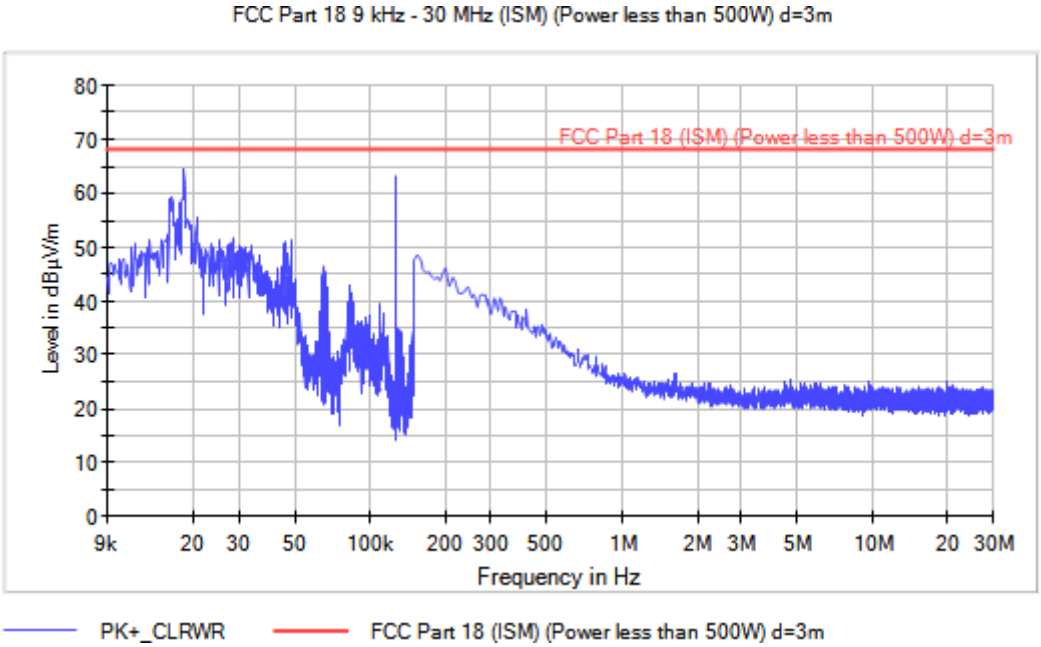
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.124900	63.3
5.455500	25.7
7.354500	25.5
10.486500	25.5
12.943500	25.3
15.886500	25.3
19.648500	25.7
21.835500	26.2
24.067500	25.7
29.737500	25.7

EMC Test Code = RE0101_ejeZ, Frequency Range [Lower Limit] MHz = 0.00900, Frequency Range [Upper Limit] MHz = 0.15000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

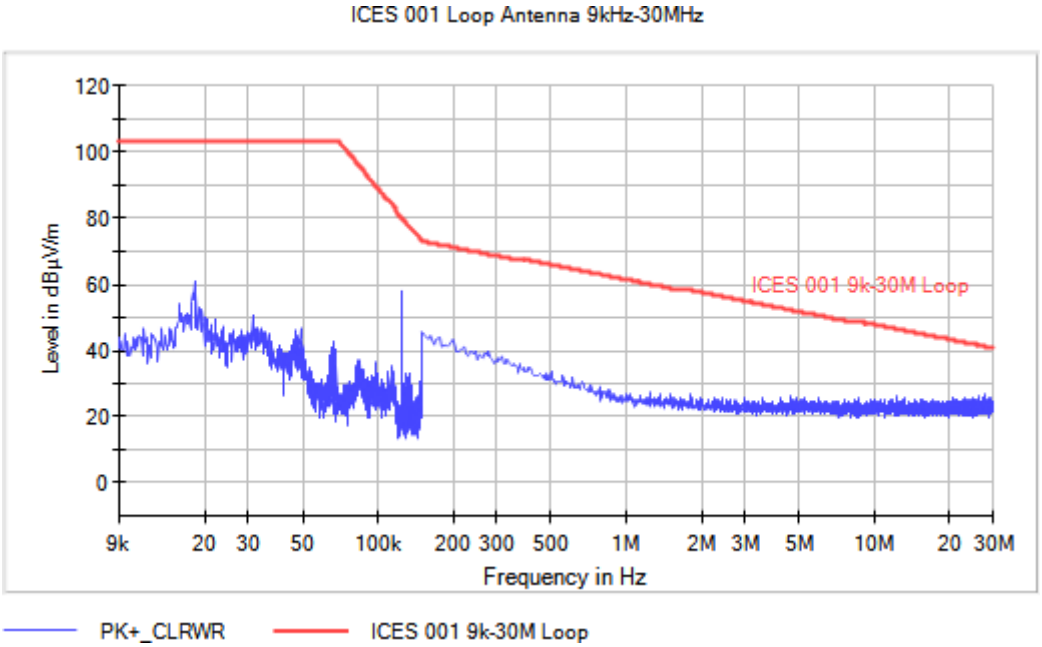
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018300	64.6
4.686000	25.4
6.112500	24.8
9.645000	25.2
12.561000	24.0
15.405000	24.1
19.689000	25.0
21.052500	24.4
26.124000	23.5
27.384000	24.1

EMC Test Code = RE0101_ejeX, Frequency Range [Lower Limit] MHz = 0.15000, Frequency Range [Upper Limit] MHz = 30.00000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

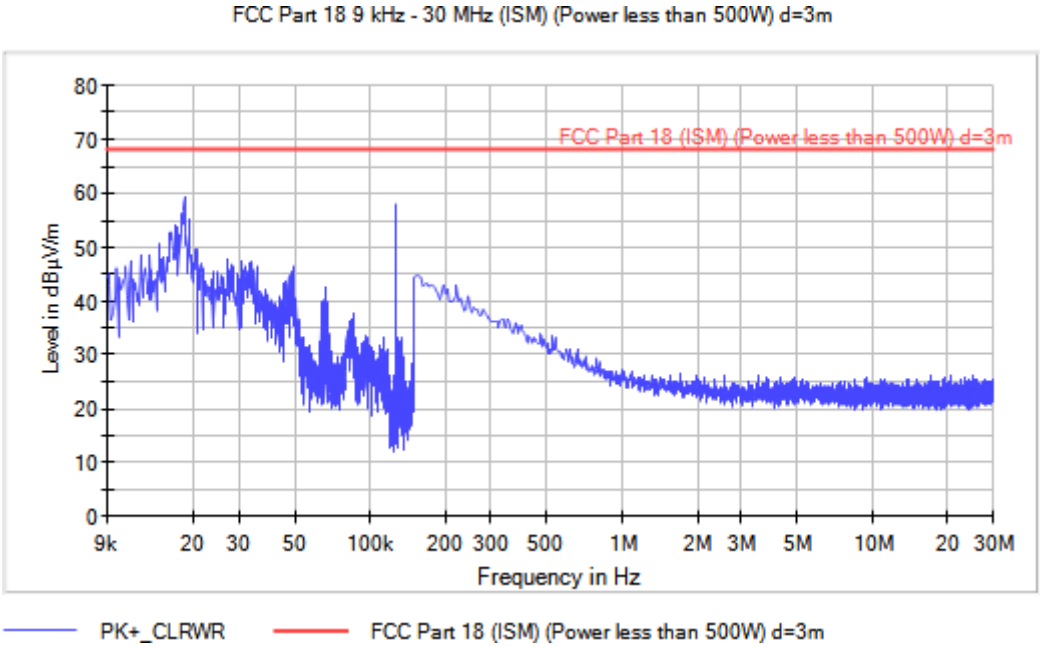
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018300	60.8
4.555500	26.1
8.664000	25.7
11.625000	25.5
12.309000	26.5
15.531000	25.4
20.647500	26.0
23.064000	25.5
26.763000	26.2
28.144500	27.1

EMC Test Code = RE0101_ejeX, Frequency Range [Lower Limit] MHz = 0.15000, Frequency Range [Upper Limit] MHz = 30.00000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

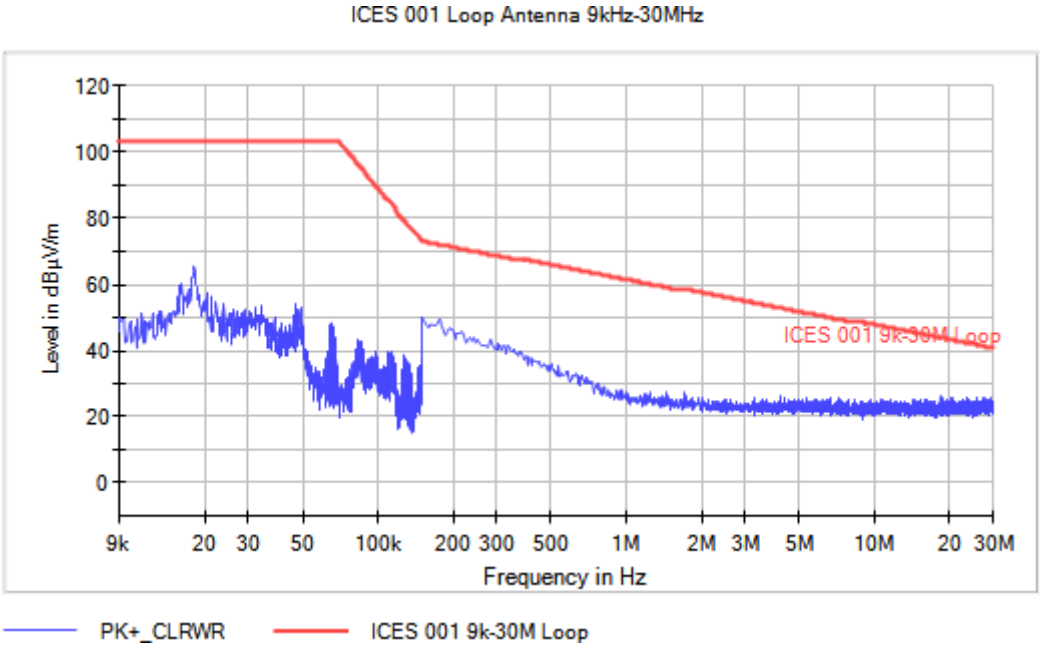
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018400	59.2
3.498000	26.2
8.335500	25.5
9.532500	25.7
13.654500	25.6
16.935000	26.2
20.593500	26.2
23.041500	25.8
24.940500	26.3
29.805000	25.6

EMC Test Code = RE0101_ejeY, Frequency Range [Lower Limit] MHz = 0.15000, Frequency Range [Upper Limit] MHz = 30.00000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

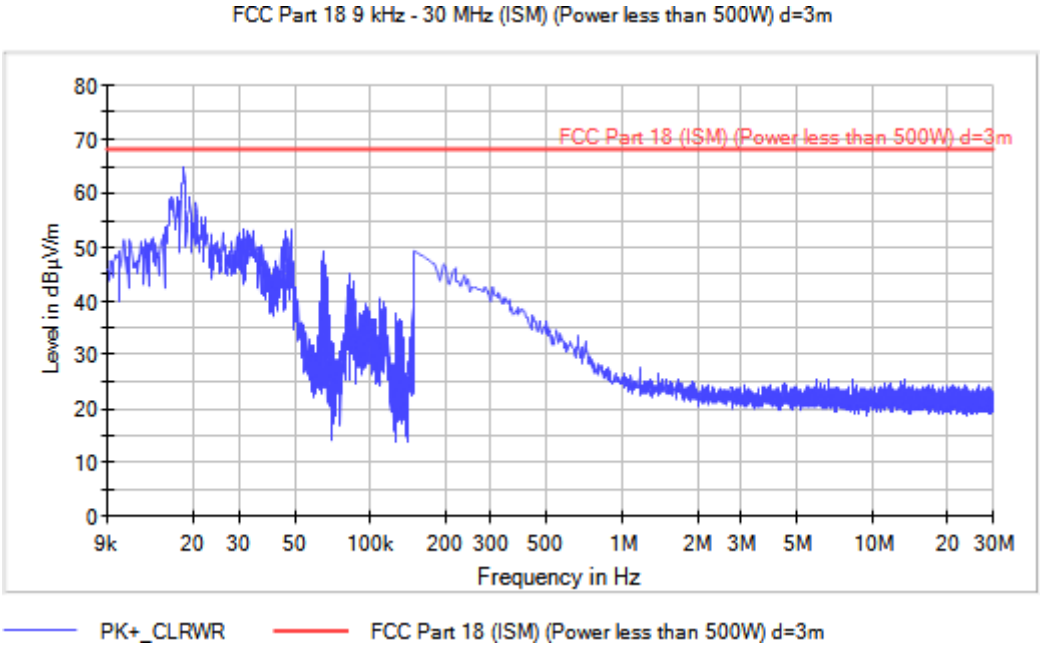
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018200	65.3
4.177500	26.2
7.165500	25.8
9.712500	25.2
14.235000	25.2
16.273500	25.2
18.249000	26.2
23.491500	25.6
25.435500	25.7
27.429000	25.9

EMC Test Code = RE0101_ejeY, Frequency Range [Lower Limit] MHz = 0.15000, Frequency Range [Upper Limit] MHz = 30.00000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

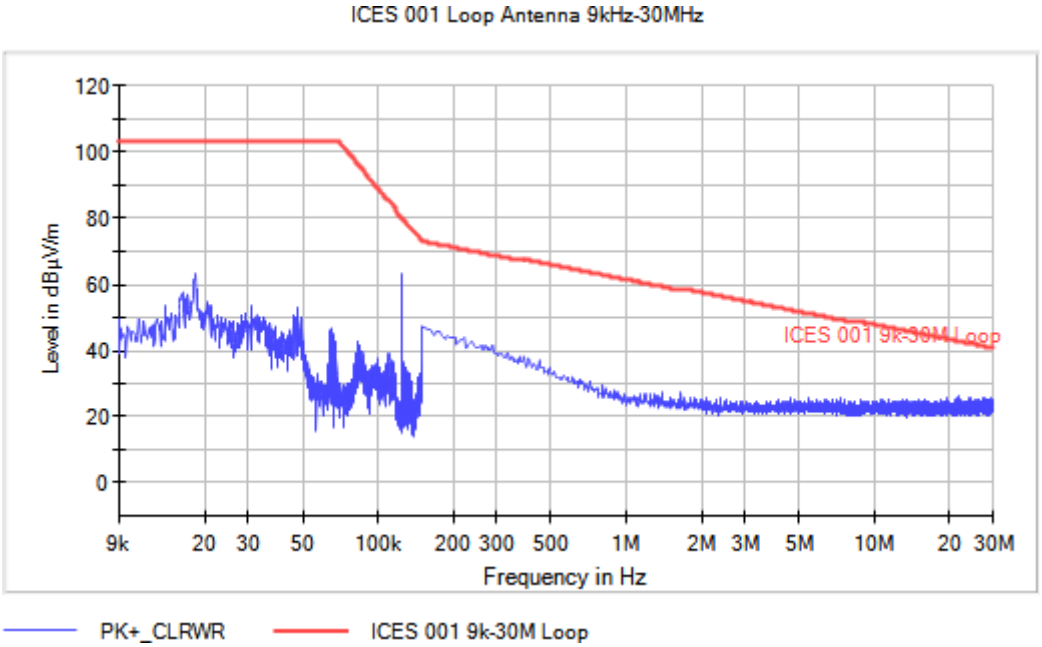
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018200	65.1
5.905500	25.5
8.187000	25.5
11.112000	24.7
13.353000	25.4
17.304000	24.6
20.926500	24.5
23.028000	24.5
26.601000	24.6
28.783500	24.0

EMC Test Code = RE0101_ejeZ, Frequency Range [Lower Limit] MHz = 0.15000, Frequency Range [Upper Limit] MHz = 30.00000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

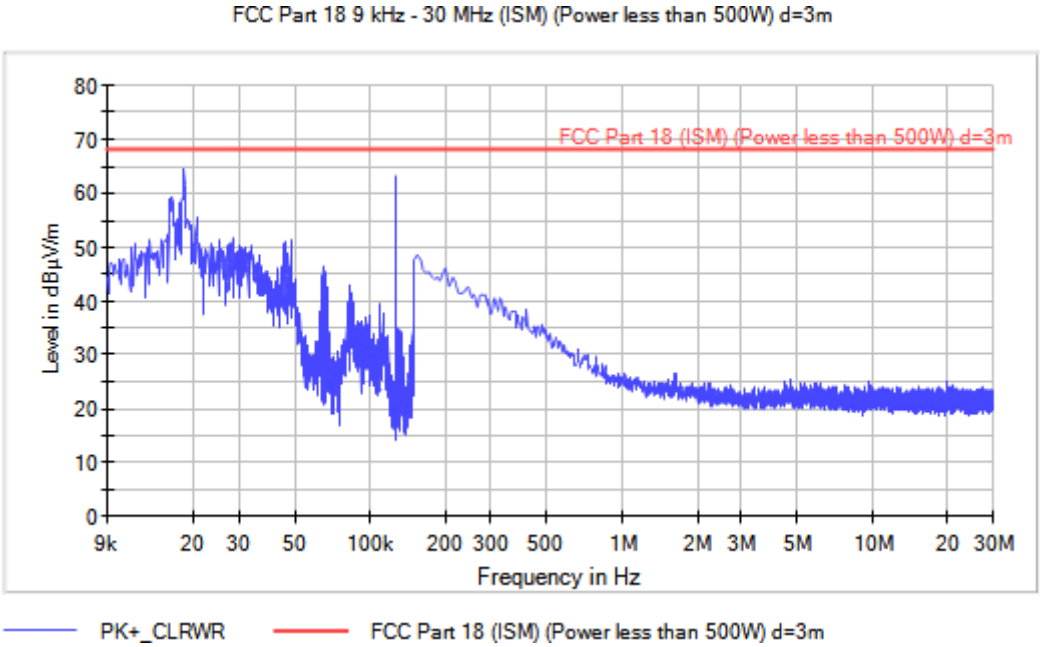
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.124900	63.3
5.455500	25.7
7.354500	25.5
10.486500	25.5
12.943500	25.3
15.886500	25.3
19.648500	25.7
21.835500	26.2
24.067500	25.7
29.737500	25.7

EMC Test Code = RE0101_ejeZ, Frequency Range [Lower Limit] MHz = 0.15000, Frequency Range [Upper Limit] MHz = 30.00000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

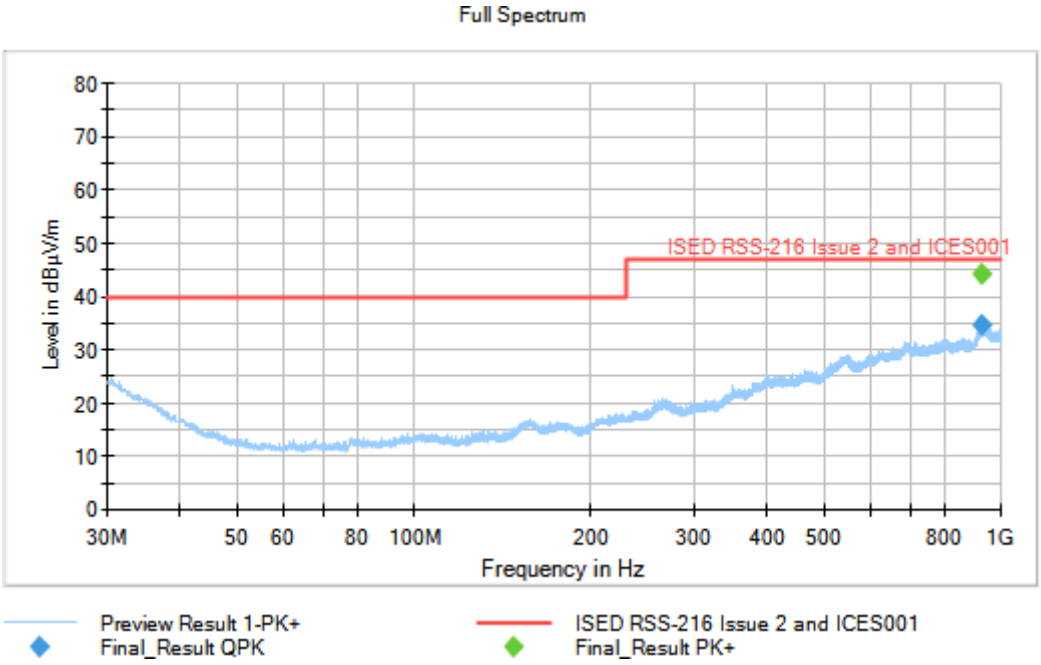
Frequency(MHz)	PK+_CLRWR(dBµV/m)
0.018300	64.6
4.686000	25.4
6.112500	24.8
9.645000	25.2
12.561000	24.0
15.405000	24.1
19.689000	25.0
21.052500	24.4
26.124000	23.5
27.384000	24.1

EMC Test Code = RE0101LR, Frequency Range [Lower Limit] MHz = 30.00000, Frequency Range [Upper Limit] MHz = 1000.00000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

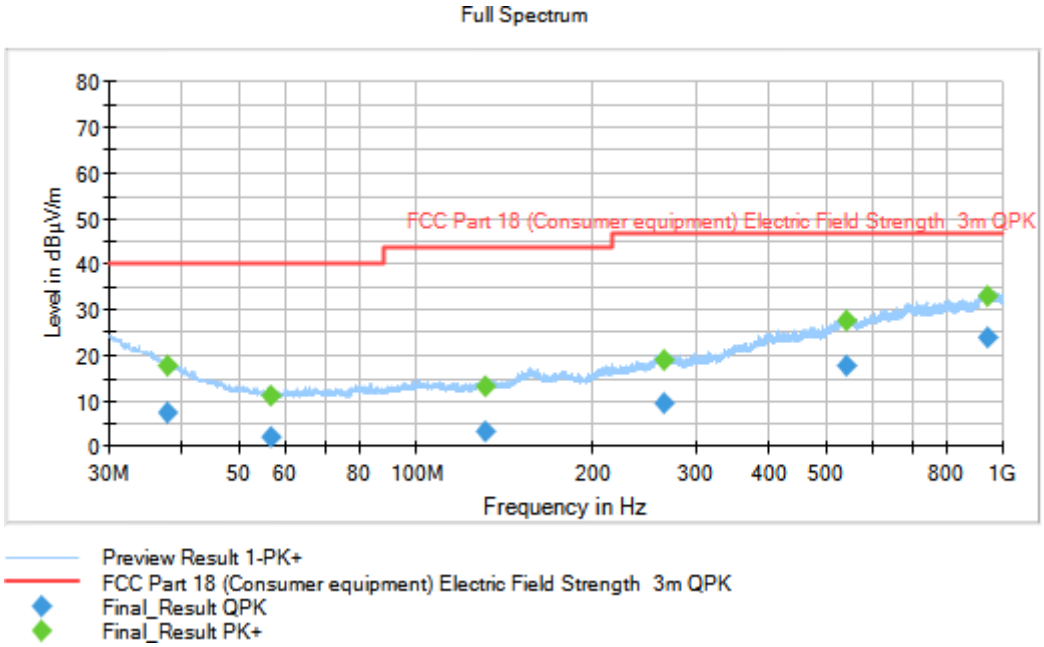
Frequency(MHz)	QuasiPeak(dBµV/m)	MaxPeak(dBµV/m)	Limit(dBµV/m)	Margin(dB)	Height(cm)	Pol	Azimuth(deg)
928.559000	---	44.18	---	---	302.0	V	250.0
928.559000	34.61	---	47.00	12.39	302.0	V	250.0

EMC Test Code = RE0101LR, Frequency Range [Lower Limit] MHz = 30.00000, Frequency Range [Upper Limit] MHz = 1000.00000

Sample ID: S/01

Operation Mode: OM/01. EUT ON. USB cable connected and charging two hearing aids. Power supply: 5Vdc (through USB).

Images:



Documents:

Frequency(MHz)	QuasiPeak(dBµV/m)	MaxPeak(dBµV/m)	Limit(dBµV/m)	Margin(dB)	Height(cm)	Pol	Azimuth(deg)
37.627000	7.47	---	40.00	32.53	108.0	V	123.0
37.627000	---	17.64	---	---	108.0	V	123.0
56.555000	---	11.32	---	---	309.0	V	183.0
56.555000	2.03	---	40.00	37.97	309.0	V	183.0
130.992000	---	13.35	---	---	325.0	V	168.0
130.992000	3.24	---	43.52	40.28	325.0	V	168.0
263.965000	---	19.10	---	---	248.0	V	179.0
263.965000	9.29	---	46.00	36.71	248.0	V	179.0
540.461000	17.79	---	46.00	28.21	164.0	H	4.0
540.461000	---	27.64	---	---	164.0	H	4.0
939.468000	---	32.90	---	---	216.0	V	167.0
939.468000	23.76	---	46.00	22.24	216.0	V	167.0

CE Continuous conducted emission

Limits

Limits for FCC part 18.307

Frequency (MHz)	Coducted limit (dbuV)	
	Quasi-Peak	Average
0,15 - 0,5	66 to 56*	56 to 46*
0,5 – 5	56	46
5 - 30	60	50

*Decreases with the logarithm of the frequency

Limits for RSS-216

Frequency (MHz)	Coducted limit (dbuV)	
	Quasi-Peak	Average
0.009-0.05	110	-
0.05-0.15	90-80 *	-
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Results

S/	OM	Code	Freq Rng (MHz)	Line	V
01	OM/02	CE01020N	[0.15, 30]	N	P
01	OM/02	CE0102L1	[0.15, 30]	L1	P
01	OM/02	CE01020N	[0.009, 30]	N	P
01	OM/02	CE0102L1	[0.009, 30]	L1	P

Verdict

Pass

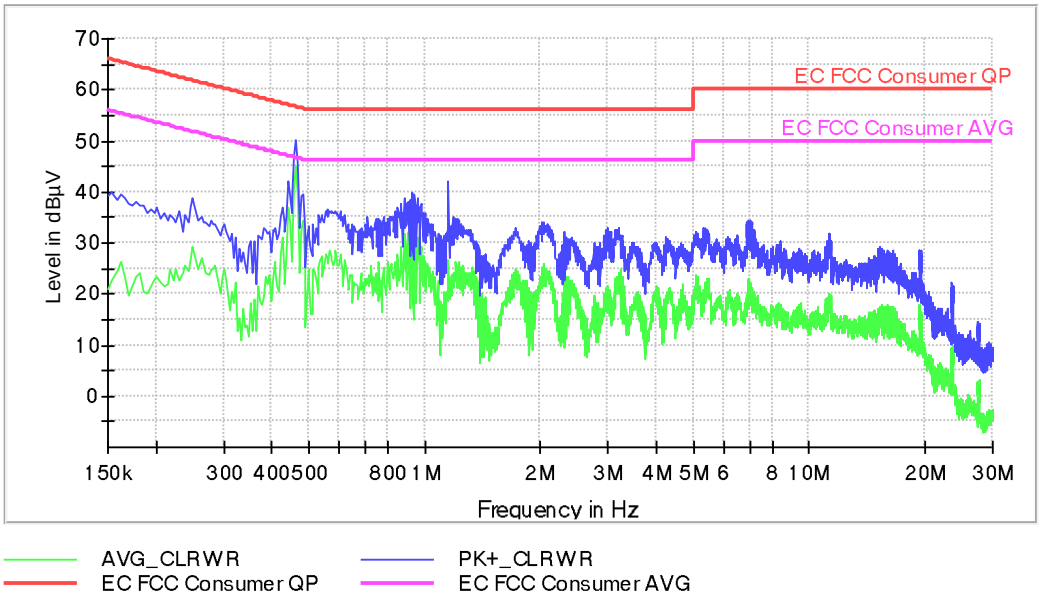
Attachments

EMC Test Code = CE01010N, Conducted Emissions - Tested Line = N, Frequency Range MHz = [0.15, 30]

Sample ID: S/01

Operation Mode: OM/02. EUT ON. USB cable connected and charging two hearing aids. Power supply: 115 Vac

Images:



Documents:

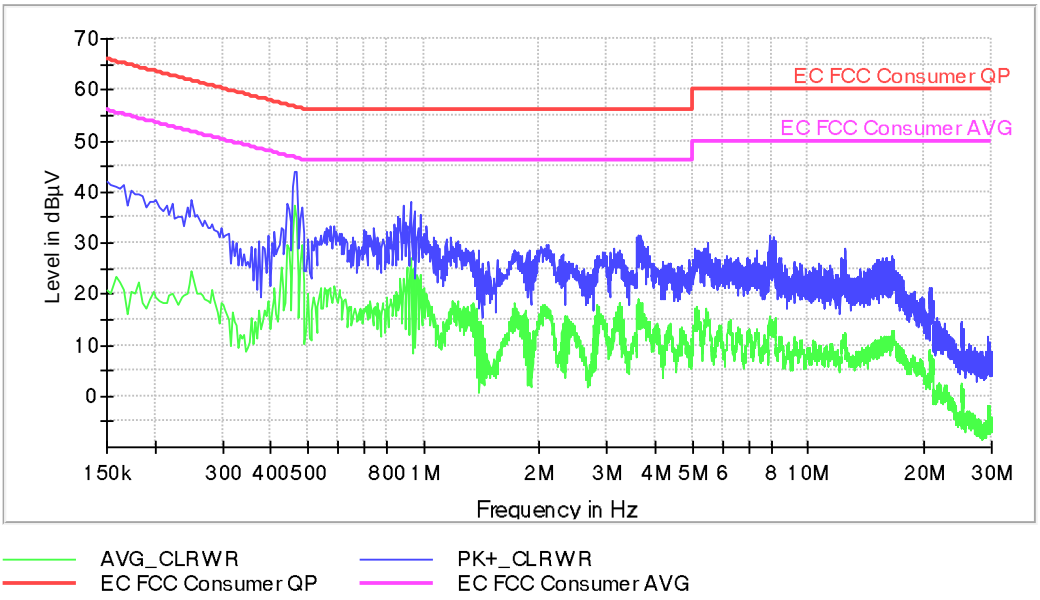
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.154000	40.0	22.8	N
0.426000	36.9	31.1	N
0.462000	50.2	44.9	N
1.154000	42.1	26.9	N
2.046000	34.1	26.1	N
2.998000	33.1	20.5	N
5.330000	32.9	20.7	N
6.914000	34.5	20.9	N
11.290000	31.9	19.5	N
19.466000	28.6	14.2	N

EMC Test Code = CE0101L1, Conducted Emissions - Tested Line = L1, Frequency Range MHz = [0.15, 30]

Sample ID: S/01

Operation Mode: OM/02. EUT ON. USB cable connected and charging two hearing aids. Power supply: 115 Vac

Images:



Documents:

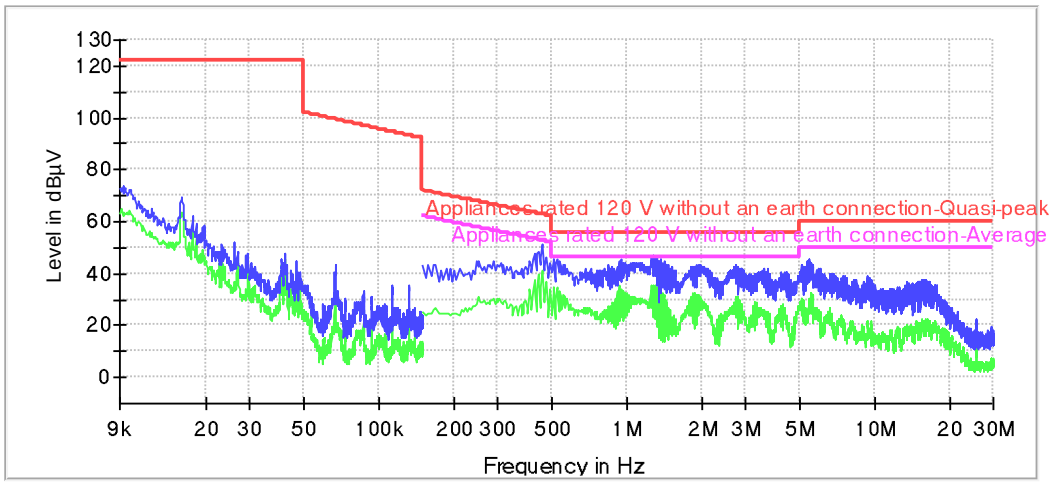
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.150000	42.2	21.0	L1
0.258000	35.6	20.0	L1
0.466000	44.0	34.9	L1
0.926000	38.2	27.1	L1
2.114000	29.7	17.1	L1
3.598000	31.0	17.8	L1
3.606000	31.4	18.1	L1
7.946000	31.4	15.0	L1
12.494000	28.9	12.0	L1
17.702000	21.3	8.2	L1

EMC Test Code = CE01010N, Conducted Emissions - Tested Line = N, Frequency Range MHz = [0.09, 30]

Sample ID: S/01

Operation Mode: OM/02. EUT ON. USB cable connected and charging two hearing aids. Power supply: 115 Vac

Images:



AVG_CLRWR
PK+_CLRWR
Appliances rated 120 V without an earth connection-Quasi-peak
Appliances rated 120 V without an earth connection-Average

Documents:

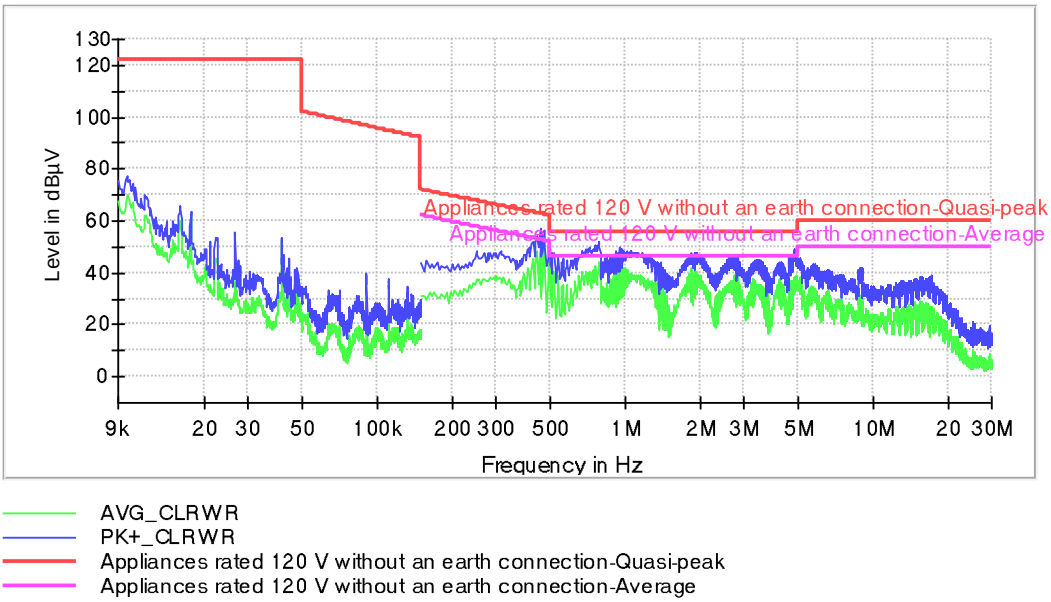
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.009320	73.7	62.1	N
0.025960	52.0	36.9	N
0.046360	44.6	35.8	N
0.150000	43.6	25.5	N
0.454000	51.1	41.6	N
0.522000	45.6	34.4	N
1.270000	47.0	35.6	N
5.446000	45.3	29.9	N
5.982000	41.8	25.3	N
16.138000	37.6	21.8	N

EMC Test Code = CE0101L1, Conducted Emissions - Tested Line = L1, Frequency Range MHz = [0.09, 30]

Sample ID: S/01

Operation Mode: OM/02. EUT ON. USB cable connected and charging two hearing aids. Power supply: 115 Vac

Images:



AVG_CLRWR
PK+_CLRWR
Appliances rated 120 V without an earth connection-Quasi-peak
Appliances rated 120 V without an earth connection-Average

Documents:

Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.009800	77.6	70.3	L1
0.026760	55.7	36.6	L1
0.047560	41.6	32.3	L1
0.158000	44.9	29.9	L1
0.454000	57.4	51.1	L1
0.782000	51.8	43.9	L1
1.942000	47.8	38.1	L1
4.842000	48.8	37.6	L1
9.026000	42.3	30.2	L1
17.078000	39.0	25.6	L1