

Test report No:
NIE: 66890REM.005A1

Test report

**FCC Rules and Regulations CFR 47, Part 15, Subpart B
(10-1-19 Edition) & ICES-003 Issue 7 (October 2020)**

(*) Identification of item tested	Internet USB device for connection with a laptop like host device
(*) Trademark	Exelonix
(*) Model and /or type reference	USB Connect 4G - NF
Other identification of the product	FCC ID: 2AUC4-UC4GNF IC ID: 25377-UC4GNF HW version: 20-004-1.3-NF SW version: 25.20.668
(*) Features	LTE CAT 4
Manufacturer	Exelonix GmbH Washingtonstraße 16/16a 01139 Dresden, Germany
Test method requested, standard	FCC Rules and Regulations CFR 47, Part 15, Subpart B (10-1-19 Edition) & ICES-003 Issue 7 (October 2020)
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Rafael López Martín EMC Consumer & RF Lab. Manager
Date of issue	2021-12-15
Report template No	FDT08_23 (*) "Data provided by the client"

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Acronyms

Acronym ID	Acronym Description
Code	EMC Test Code
Freq Rng	Frequency Range
Line	Conducted Emissions - Tested Line
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.

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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.
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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 $I = \pm 3,9$ dB for quasi-peak measurements, $I = \pm 3,2$ 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 $I = \pm 4,9$ dB for quasi-peak measurements, $I = \pm 4,6$ 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 17 GHz is $I = \pm 2,6$ 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 an Internet USB device for connection with a laptop like host device.

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 N°	Date of Reception	Application
S/01	66890G_17.1	USB 4G Connect	USB Connect 4G - NF	---	2021-06-09	Element Under Test

Notes referenced to samples during the project.

Test sample description

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

Ports..... :	Port name and description		Cable				
			Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾	
	USB			[]	[X]	[]	
Supplementary information to the ports..... :	The USB communication can be detached during the test. However, the power supply must be maintained						
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:	[]	[]	[]	[]	[]
	[X]	DC: 5V					
Rated Power	~ 3 W						
Clock frequencies..... :	max 480 Mbps USB transfer						
Other parameters							
Software version	25.20.668						
Hardware version	20-004-1.3-NF						
Dimensions in cm (W x H x D)	5.7x9.7x2.34						
Mounting position	[]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[]	Hand-held equipment					
	[X]	Other: placed in a laptop like device					
Modules/parts..... :	Module/parts of test item			Type		Manufacturer	
	LE910C4 - NF			Modem		Telit	
Accessories (not part of the test item)	Description			Type		Manufacturer	
							

Documents as provided by the applicant	Description	File name	Issue date
	Data Sheet	datasheet.pdf	29.03.2021
	Manual	Manual.pdf	29.03.2021
	Software for AT command communication	ATcommand_tool.pdf	29.03.2021
	Telit_datasheet	Telit_datasheet.pdf	29.03.2021

⁽³⁾ Only for Medical Equipment

Identification of the client

Exelonix GmbH
Washingtonstraße 16/16a
01139 Dresden, Germany

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2021-06-21
Date (finish)	2021-07-12

Document history

Report number	Date	Description
66890REM.005	2021-09-02	First release
66890REM.005A1	2021-12-15	Second release. FCC and IC ID updated. This modification test report cancels and replaces the test report 66890REM.005s

Environmental conditions

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

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

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

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

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

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

Remarks and comments

The tests have been performed by the technical personnel: David Rubio Sánchez and Juan Manuel Pino Blanco.

Testing verdicts

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

List of equipment used during the test

Control Number	Description	Model	Manufacturer	Next Calibration
6142	PRE-AMPLIFIER G>38dB 30MHz-6GHz	BLNA 0360-01N	BONN ELEKTRONIK	2022-03-08
6196	PRE-AMPLIFIER G>55dB 1-18GHz	AMF-7D-01001800-22-10P	NARDA	2022-02-25
6204	THREE-PHASE ARTIFICIAL NETWORK 32A	PMM L3-32	NARDA	2021-07-29
7743	HORN ANTENNA 0,75-18GHz	3115	ETS LINDGREN	2023-08-24
7746	HYBRID BILOG ANTENNA 30MHz-6GHz	3142E	ETS LINDGREN	2023-07-23

Summary

Test Specification.	Requirement – Test case	Verdict	Remark
FCC CFR 47, Part 15, Subpart B (10-1-19 Edition) & ICES-003 Issue 7 (October 2020)	RE Radiated emission. Electromagnetic field measure	Pass	---
FCC CFR 47, Part 15, Subpart B (10-1-19 Edition) & ICES-003 Issue 7 (October 2020)	CE Continuous conducted emission	Pass	---
<u>Supplementary information and remarks:</u> None			

Appendix A: Test results

Appendix A content

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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. MS idle mode, LTE Band 2. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..
OM/02	EUT ON. MS idle mode, LTE Band 4. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.
OM/03	EUT ON. MS idle mode, LTE Band 12. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.
OM/04	EUT ON. MS idle mode, LTE Band 66. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.
OM/05	EUT ON. MS in traffic mode, LTE Band 2. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.
OM/06	EUT ON. MS in traffic mode, LTE Band 4. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.
OM/07	EUT ON. MS in traffic mode, LTE Band 12 . Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.
OM/08	EUT ON. MS in traffic mode, LTE Band 66. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.

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 CFR 47, Part 15, Subpart B (10-1-19 Edition) & ICES-003 Issue 7 (October 2020)	ANSI C63.4 (2014)	RE Radiated emission.
FCC CFR 47, Part 15, Subpart B (10-1-19 Edition) & ICES-003 Issue 7 (October 2020)	ANSI C63.4 (2014)	CE Continuous conducted emission

Test Cases Details

FCC CFR 47, Part 15, Subpart B (10-1-19 Edition) & ICES-003 Issue 7 (October 2020) RE Radiated emission. Electromagnetic field measure

Limits

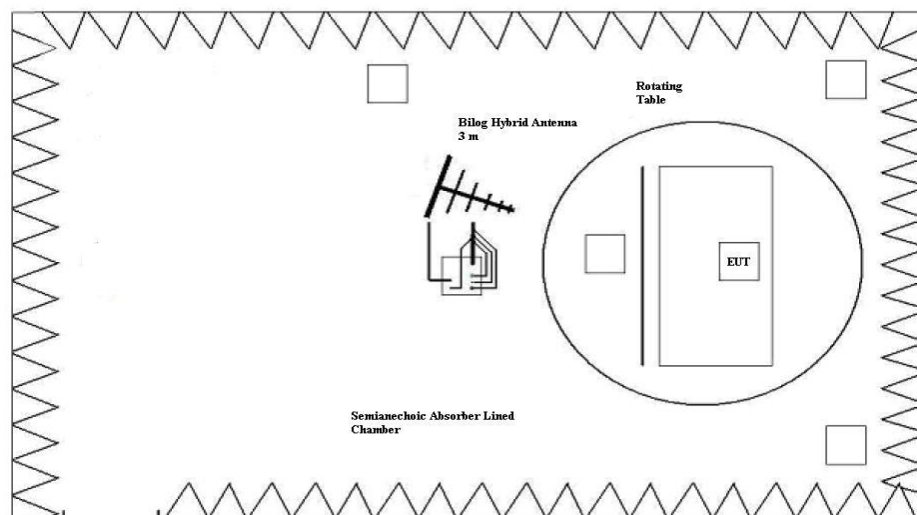
The applied limit for radiated emissions, 3 m distance, according to the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-1-19 Edition), Secs. 15.109 & ICES-003 Issue 7 (October 2020)

Frequency range (MHz)	FCC Part 15B		ICES-003 Issue 7		FCC Part 15B & ICES-003 Issue 7	
	QP Limit for 3 m		QP Limit for 3 m		PK Limit for 3 m	AVG Limit for 3 m
	($\mu\text{V/m}$)	(dB $\mu\text{V/m}$)	($\mu\text{V/m}$)	(dB $\mu\text{V/m}$)	(dB $\mu\text{V/m}$)	(dB $\mu\text{V/m}$)
30 to 88	100	40	100	40	---	---
88 to 216	150	43.5	150	43.5	---	---
216 to 230	200	46	200	46	---	---
230 to 960	200	46	224	47	---	---
960 to 1000	500	54	500	54	---	---
Above 1000	---	---	---	---	74	54

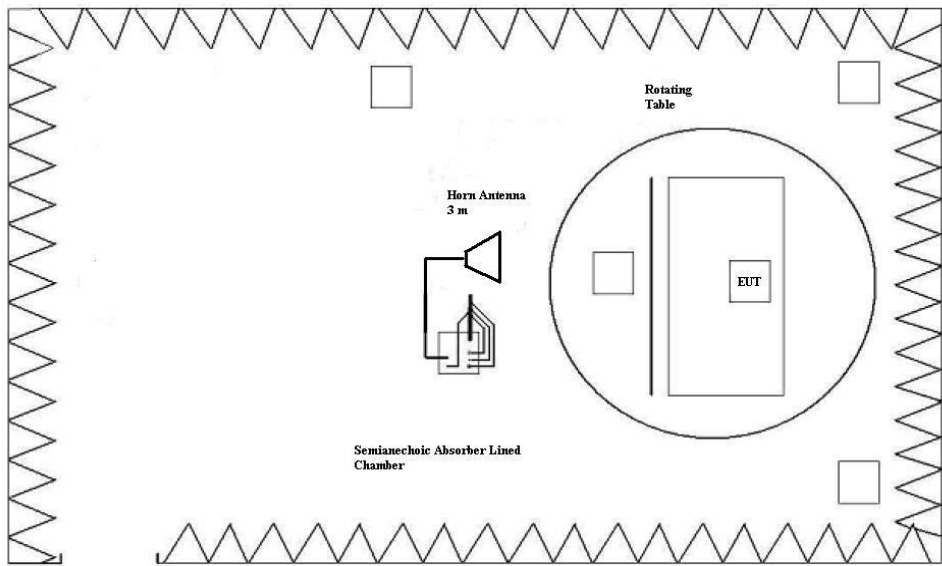
NOTE: FCC QP and AVG limits are in concordance with RSS-Gen Issue 5 (March 2019), Secs. 7.1 and 7.3.

Limits according to FCC Part 15B, equal to o more stringent than those of ICES-003 Issue 7.

Setup for measurements



Setup for measurements < 1GHz.



Setup for measurements > 1GHz.

Results

SI	OM	Code	Freq Rng (MHz)	Comments	V
01	OM/01	RE0101LR	[30, 1000]		P
01	OM/01	RE0101HR	[1000, 17000]		P

Verdict

Pass

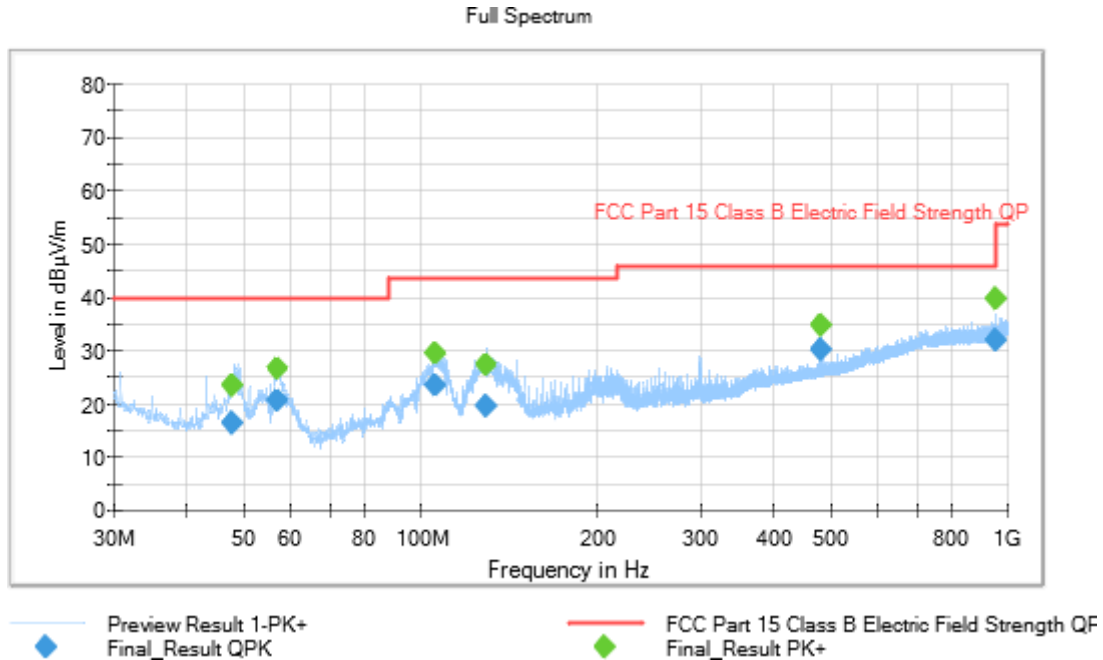
Attachments

EMC Test Code = RE0101LR, Frequency Range MHz = [30, 1000]

Sample ID: S/01

Operation Mode: OM/01. EUT ON. MS idle mode, LTE Band 2 (worst case). Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz...

Images:



Documents:

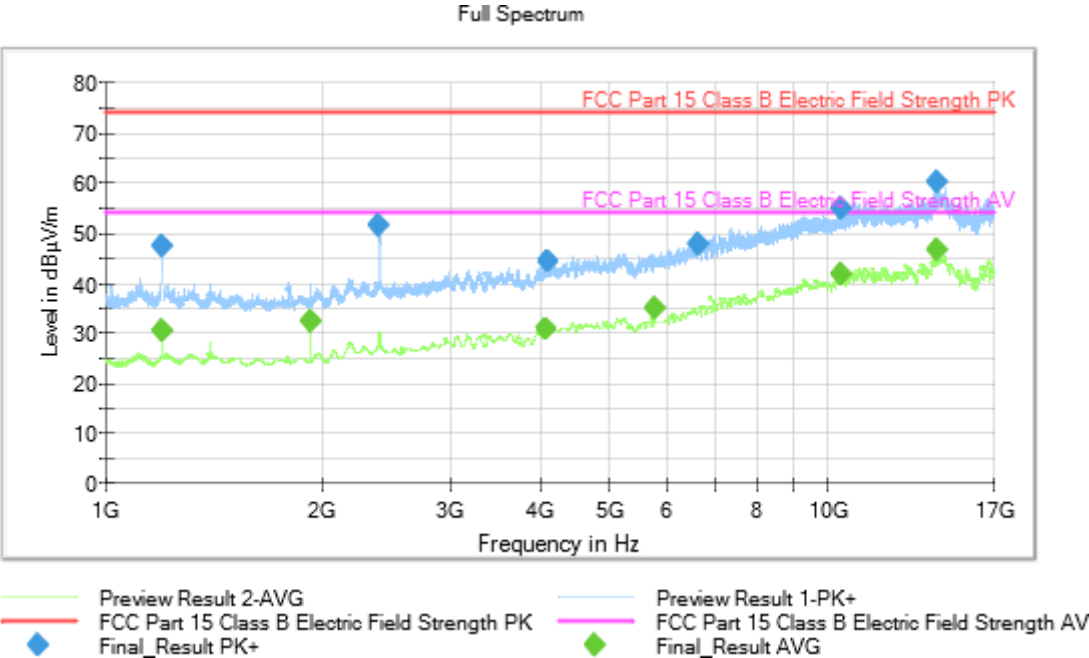
Frequency(MHz)	QuasiPeak(dBµV/m)	MaxPeak(dBµV/m)	Limit(dBµV/m)	Margin(dB)	Height(cm)	Pol	Azimuth(deg)
47.769000	16.26	---	40.00	23.74	138.0	V	132.0
47.769000	---	23.26	---	---	138.0	V	132.0
57.152000	---	26.50	---	---	299.0	V	331.0
57.152000	20.62	---	40.00	19.38	299.0	V	331.0
105.991000	---	29.24	---	---	158.0	H	18.0
105.991000	23.26	---	43.52	20.26	158.0	H	18.0
129.643000	19.44	---	43.52	24.08	339.0	H	43.0
129.643000	---	27.38	---	---	339.0	H	43.0
480.011000	---	34.52	---	---	182.0	H	2.0
480.011000	30.19	---	46.00	15.81	182.0	H	2.0
960.013000	---	39.76	---	---	155.0	H	334.0
960.013000	31.80	---	53.97	22.17	155.0	H	334.0

EMC Test Code = RE0101HR, Frequency Range MHz = [1000, 17000]

Sample ID: S/01

Operation Mode: OM/01. EUT ON. MS idle mode, LTE Band 2 (worst case). Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz...

Images:



Documents:

Frequency(MHz)	MaxPeak(dBµV/m)	Average(dBµV/m)	Limit(dBµV/m)	Margin(dB)
1197.600000	47.38	---	73.97	26.59
1198.400000	---	30.37	53.97	23.60
1920.000000	---	32.39	53.97	21.58
2390.800000	51.49	---	73.97	22.48
4075.600000	---	30.93	53.97	23.04
4092.000000	44.30	---	73.97	29.67
5760.000000	---	35.10	53.97	18.87
6605.200000	47.85	---	73.97	26.12
10424.800000	---	41.85	53.97	12.12
10443.200000	54.69	---	73.97	19.28
14170.400000	---	46.54	53.97	7.43
14176.800000	60.02	---	73.97	13.95

FCC CFR 47, Part 15, Subpart B
(10-1-19 Edition) & ICES-003 Issue 7 (October 2020)
CE Continuous conducted emission

Limits

The applied limit for continuous conducted emissions in power leads, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-1-19 Edition), Secs. 15.107 & ICES-003 Issue 6 (April 2019), in the frequency range 0,15 to 30 MHz, for Class B equipment was:

Frequency range (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0,15 to 0,5	66 - 56	56 - 46
0,5 to 5	56	46
5 to 30	60	50

Results

SI	OM	Code	Freq Rng (MHz)	Line	V
01	OM/01	CE01010N	[0.15, 30]	N	P
01	OM/01	CE0101L1	[0.15, 30]	L1	P
01	OM/02	CE01020N	[0.15, 30]	N	P
01	OM/02	CE0102L1	[0.15, 30]	L1	P
01	OM/03	CE01030N	[0.15, 30]	N	P
01	OM/03	CE0103L1	[0.15, 30]	L1	P
01	OM/04	CE01040N	[0.15, 30]	N	P
01	OM/04	CE01040L1	[0.15, 30]	L1	P
01	OM/05	CE01050N	[0.15, 30]	N	P
01	OM/05	CE0105L1	[0.15, 30]	L1	P
01	OM/06	CE01060N	[0.15, 30]	N	P
01	OM/06	CE0106L1	[0.15, 30]	L1	P
01	OM/07	CE01070N	[0.15, 30]	N	P
01	OM/07	CE0107L1	[0.15, 30]	L1	P
01	OM/08	CE01080N	[0.15, 30]	N	P
01	OM/08	CE0108L1	[0.15, 30]	L1	P

Verdict

Pass

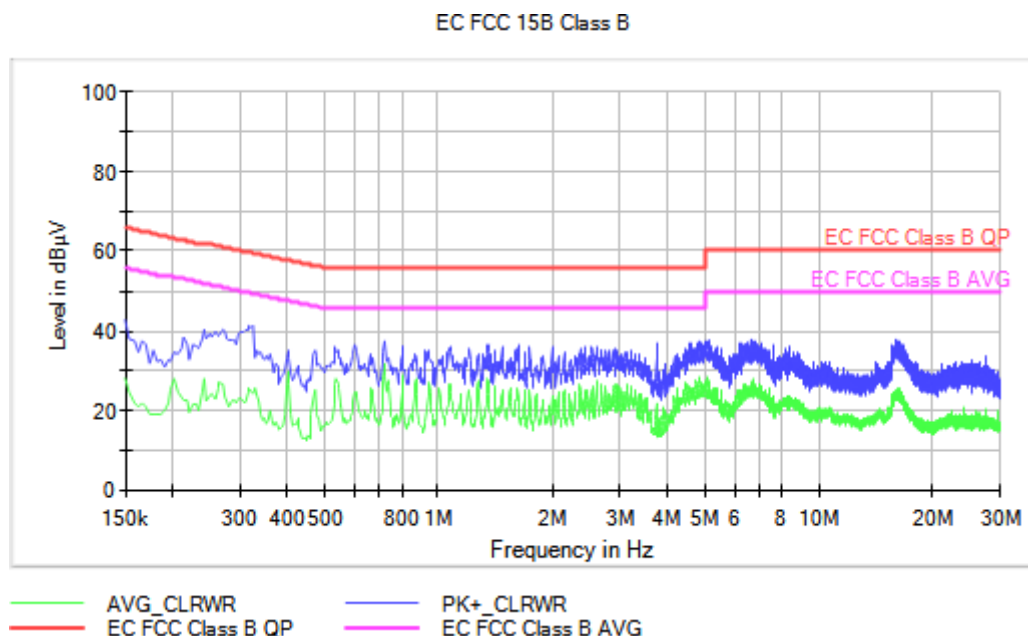
Attachments

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

Sample ID: S/01

Operation Mode: OM/01. EUT ON. MS idle mode, LTE Band 2. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.

Images:



Documents:

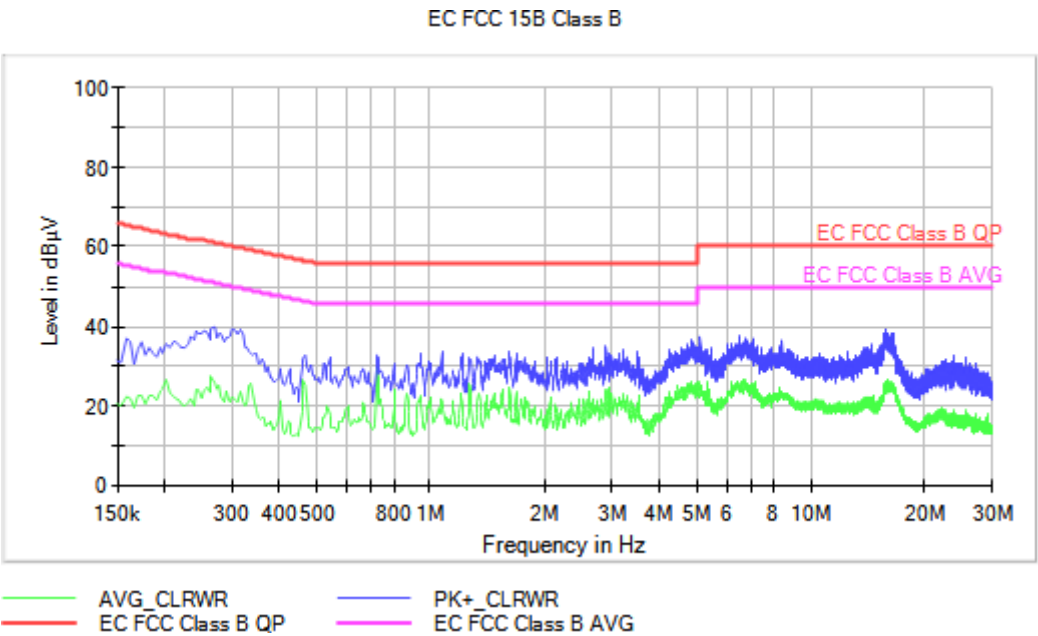
Frequency(MHz)	PK+_CLRWR(dBμV)	AVG_CLRWR(dBμV)	Line
0.150000	42.8	27.9	N
0.326000	41.2	24.0	N
0.722000	37.3	31.7	N
1.078000	36.2	24.7	N
1.618000	36.5	21.7	N
2.542000	36.2	24.8	N
4.830000	37.7	28.4	N
6.630000	37.8	26.7	N
16.062000	37.7	24.7	N
27.670000	33.7	19.3	N

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

Sample ID: S/01

Operation Mode: OM/01. EUT ON. MS idle mode, LTE Band 2. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.

Images:



Documents:

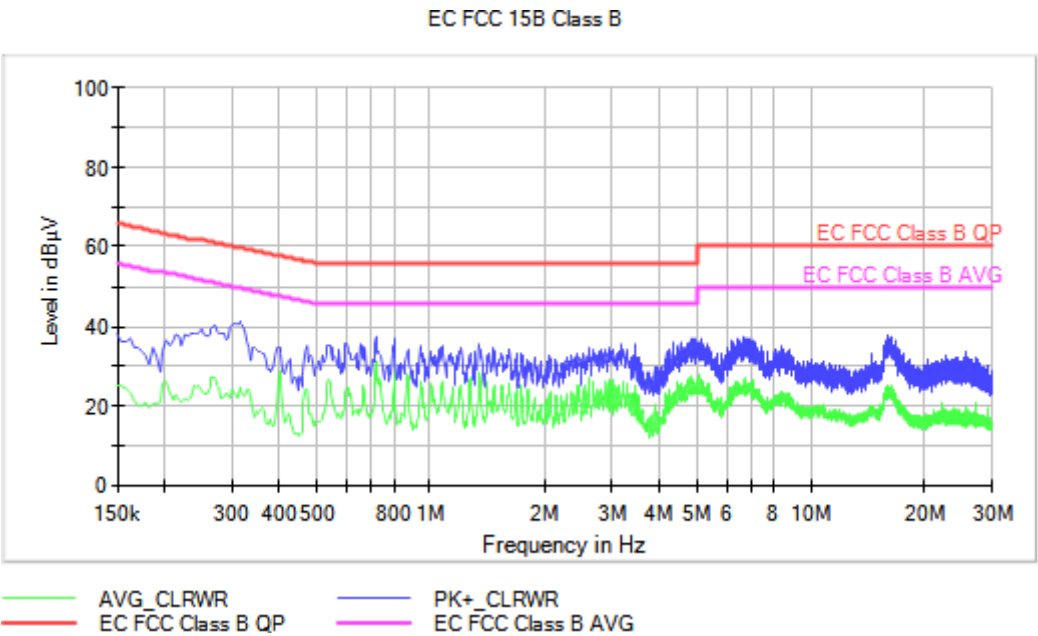
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.254000	38.8	23.8	L1
0.270000	39.7	25.8	L1
0.726000	32.8	30.0	L1
1.074000	33.8	21.0	L1
1.606000	33.6	24.2	L1
2.882000	34.9	24.0	L1
5.098000	37.5	25.8	L1
6.522000	37.4	24.7	L1
15.854000	39.2	25.6	L1
23.870000	32.9	19.1	L1

EMC Test Code = CE01020N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N

Sample ID: S/01

Operation Mode: OM/02. EUT ON. MS idle mode, LTE Band 4. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

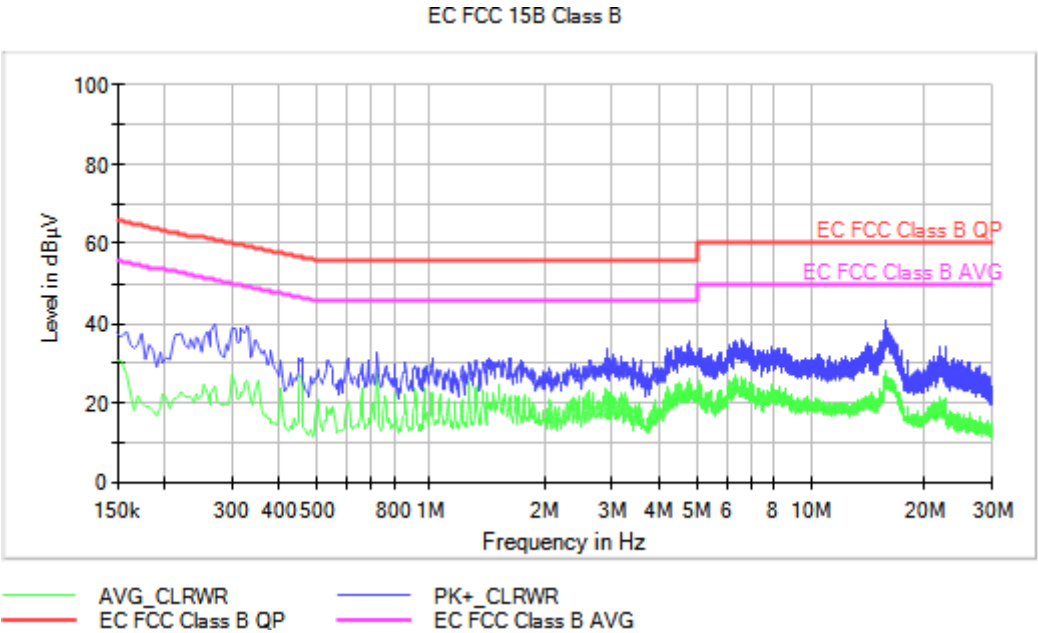
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.250000	39.3	23.7	N
0.314000	41.0	24.4	N
0.722000	37.4	31.2	N
0.806000	36.9	27.4	N
1.338000	35.4	27.6	N
3.454000	35.7	24.5	N
5.174000	37.0	26.4	N
6.702000	37.3	26.7	N
15.958000	38.0	22.9	N
25.510000	33.8	18.3	N

EMC Test Code = CE0102L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1

Sample ID: S/01

Operation Mode: OM/02. EUT ON. MS idle mode, LTE Band 4. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

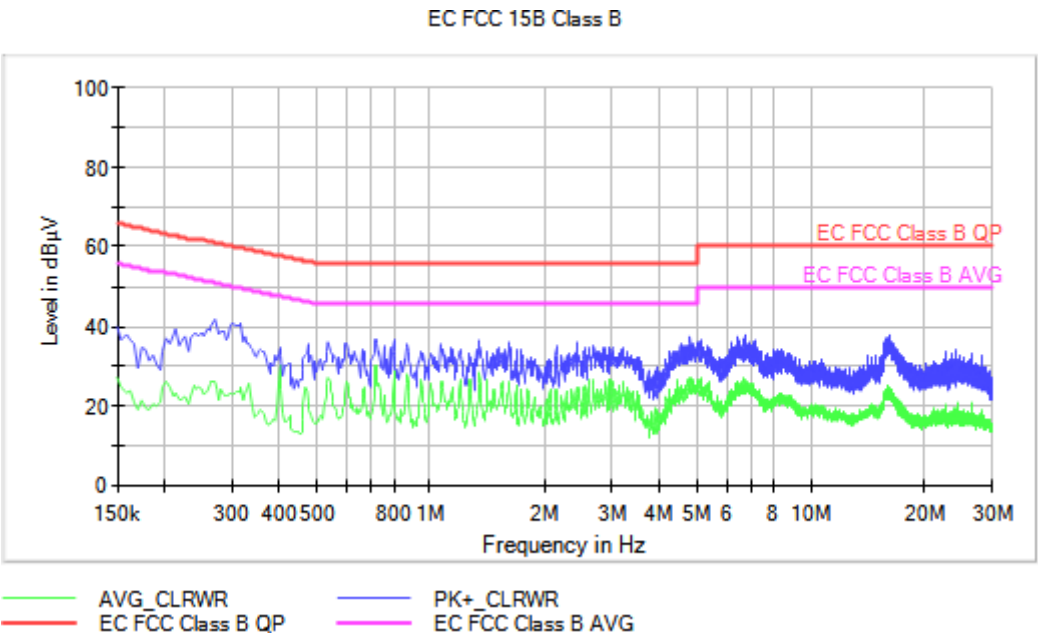
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.158000	37.9	26.9	L1
0.270000	39.7	23.9	L1
0.726000	32.5	27.7	L1
1.018000	31.4	19.0	L1
1.618000	31.4	21.5	L1
2.890000	33.7	22.0	L1
4.810000	35.8	26.0	L1
6.618000	36.1	26.2	L1
15.858000	41.0	27.8	L1
21.870000	34.1	21.5	L1

EMC Test Code = CE01030N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N

Sample ID: S/01

Operation Mode: OM/03. EUT ON. MS idle mode, LTE Band 12. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

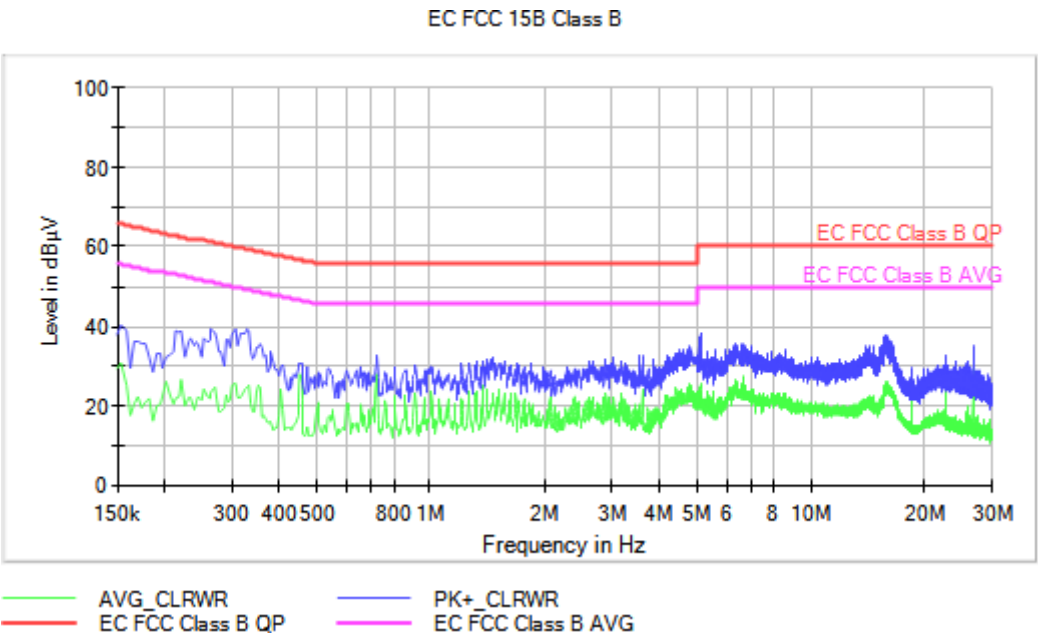
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.150000	39.6	27.0	N
0.270000	41.5	26.2	N
0.722000	36.5	29.8	N
0.798000	36.3	27.7	N
1.338000	36.3	28.2	N
2.418000	35.8	23.0	N
4.818000	37.2	26.9	N
6.762000	37.9	25.2	N
16.162000	37.9	23.1	N
24.290000	34.0	17.4	N

EMC Test Code = CE0103L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1

Sample ID: S/01

Operation Mode: OM/03. EUT ON. MS idle mode, LTE Band 12. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

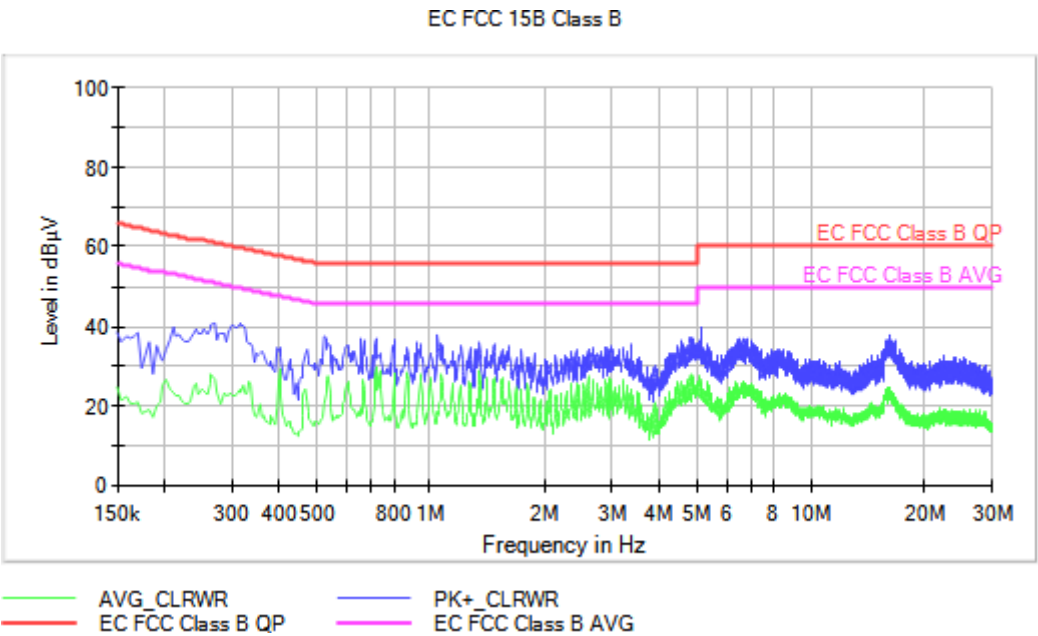
Frequency(MHz)	PK+ _CLRWR(dBµV)	AVG _CLRWR(dBµV)	Line
0.154000	40.4	30.9	L1
0.330000	39.5	24.5	L1
0.726000	32.5	25.9	L1
1.210000	30.7	21.6	L1
1.462000	32.0	23.1	L1
3.558000	32.7	20.5	L1
5.102000	38.4	25.5	L1
6.602000	35.5	24.8	L1
15.798000	37.9	25.1	L1
26.622000	35.3	32.6	L1

EMC Test Code = CE01040N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N

Sample ID: S/01

Operation Mode: OM/04. EUT ON. MS idle mode, LTE Band 66. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.

Images:



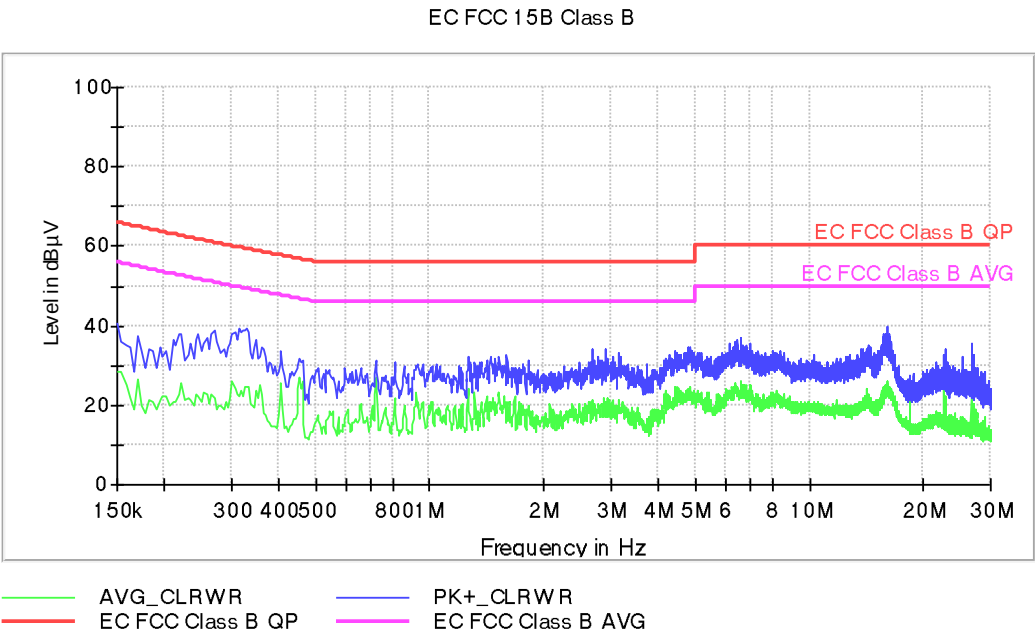
Documents:

Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.210000	39.8	23.2	N
0.314000	40.9	24.4	N
0.526000	37.3	20.5	N
1.046000	37.7	18.5	N
1.342000	35.9	28.5	N
3.362000	35.4	23.0	N
5.174000	39.7	25.6	N
6.782000	37.0	24.7	N
16.198000	37.7	22.5	N
22.398000	32.7	17.4	N

EMC Test Code = CE0104L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1

Sample ID: S/01

Operation Mode: OM/04. EUT ON. MS idle mode, LTE Band 66. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz.



Documents:

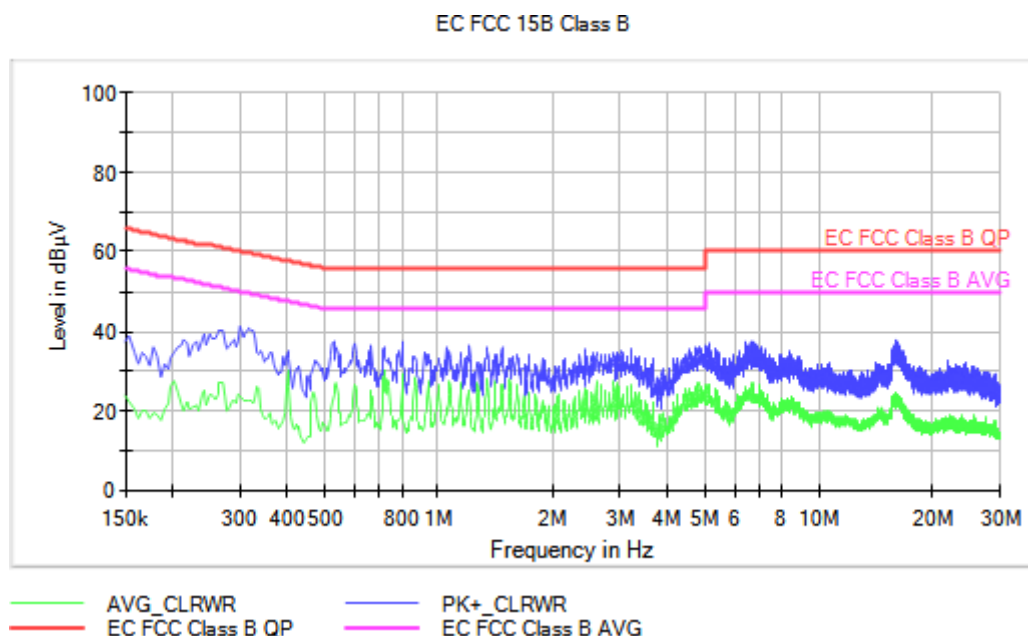
Frequency (MHz)	PK+_CLRWR (dBµV)	AVG_CLRWR (dBµV)	Line
0.150000	40.7	28.5	L1
0.330000	39.3	24.7	L1
0.454000	31.8	27.2	L1
0.810000	31.0	21.6	L1
1.594000	32.5	20.9	L1
2.894000	34.2	19.3	L1
4.846000	34.6	22.6	L1
6.566000	36.9	24.2	L1
16.014000	39.7	23.7	L1
26.626000	35.5	32.4	L1

EMC Test Code = CE01050N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N

Sample ID: S/01

Operation Mode: OM/05. EUT ON. MS in traffic mode, LTE Band 2. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

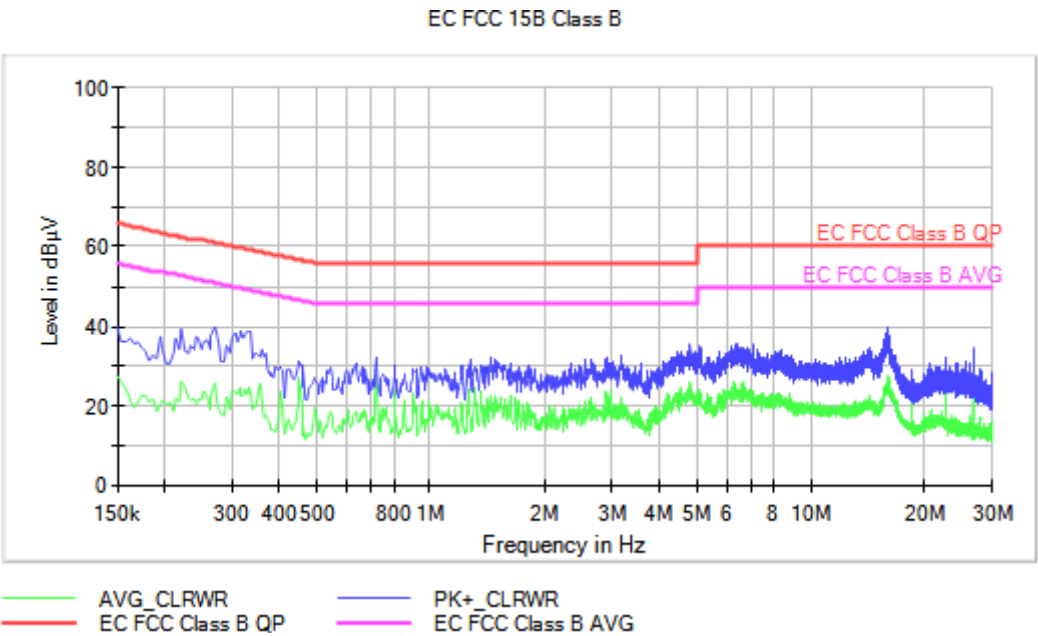
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.242000	39.3	24.9	N
0.302000	41.2	23.9	N
0.530000	37.2	24.2	N
0.806000	37.5	28.6	N
1.338000	36.2	27.8	N
3.218000	35.6	25.0	N
5.170000	37.1	25.0	N
6.694000	37.5	26.4	N
16.122000	37.9	23.3	N
21.710000	32.6	18.1	N

EMC Test Code = CE0105L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1

Sample ID: S/01

Operation Mode: OM/05. EUT ON. MS in traffic mode, LTE Band 2. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

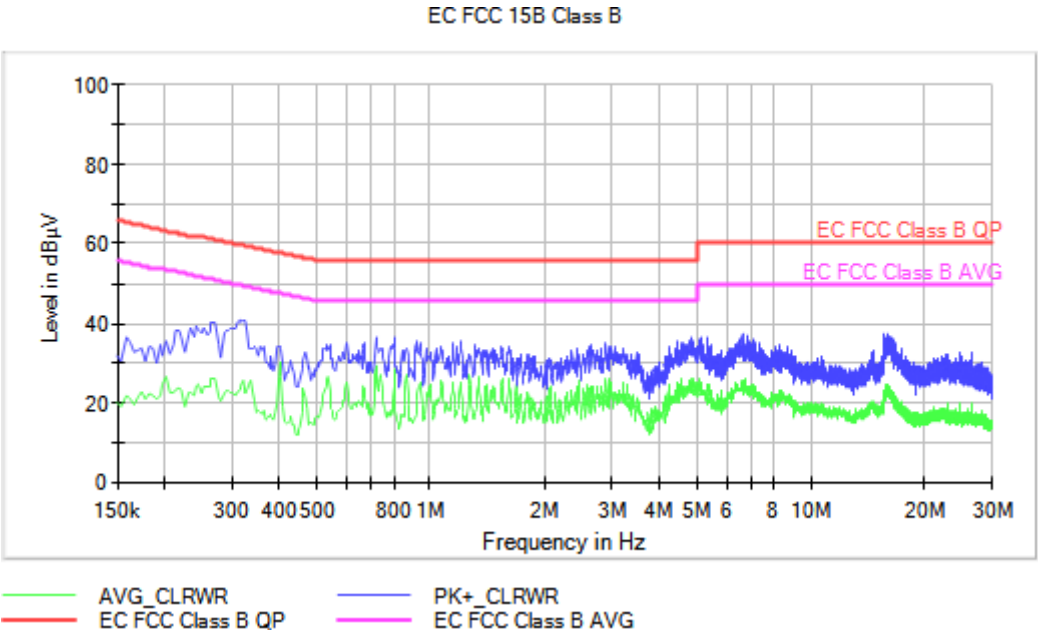
Frequency(MHz)	PK+ CLRWR(dBµV)	AVG CLRWR(dBµV)	Line
0.150000	40.0	27.7	L1
0.270000	39.6	25.4	L1
0.722000	32.0	27.6	L1
0.806000	30.2	23.7	L1
1.446000	32.2	22.2	L1
3.182000	32.6	17.4	L1
4.818000	35.7	25.9	L1
6.374000	35.6	24.7	L1
16.054000	39.7	27.4	L1
26.626000	34.6	32.8	L1

EMC Test Code = CE01060N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N

Sample ID: S/01

Operation Mode: OM/06. EUT ON. MS in traffic mode, LTE Band 4. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

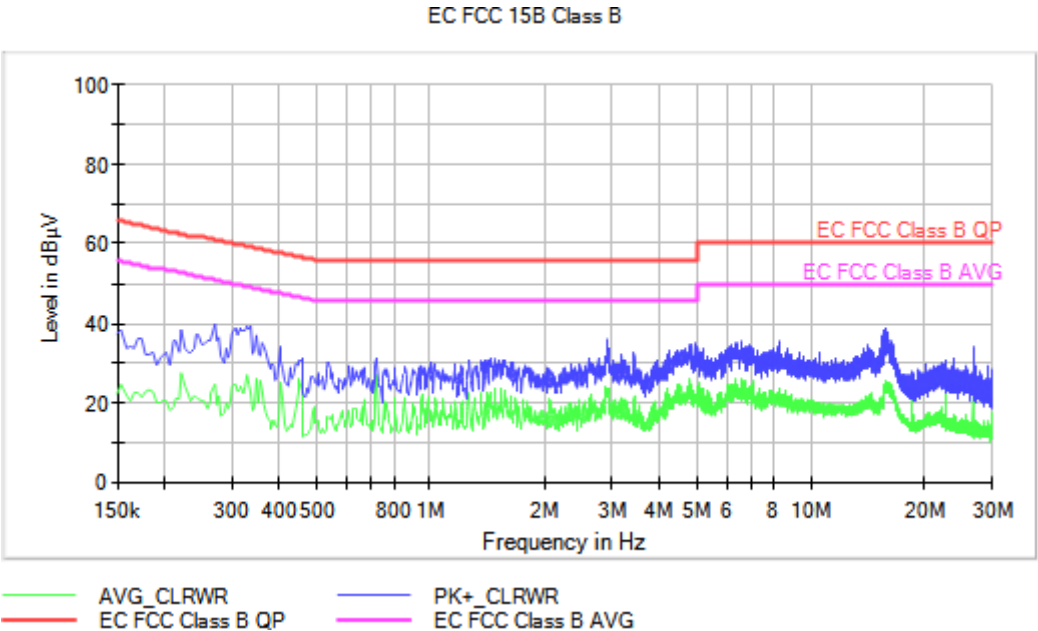
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.242000	39.2	24.2	N
0.314000	40.9	23.4	N
0.722000	36.5	29.5	N
0.802000	36.6	28.3	N
1.310000	34.8	16.6	N
2.882000	35.0	26.0	N
5.154000	36.6	25.2	N
6.630000	37.3	25.3	N
15.522000	37.4	21.8	N
24.666000	32.8	20.1	N

EMC Test Code = CE0106L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1

Sample ID: S/01

Operation Mode: OM/06. EUT ON. MS in traffic mode, LTE Band 4. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

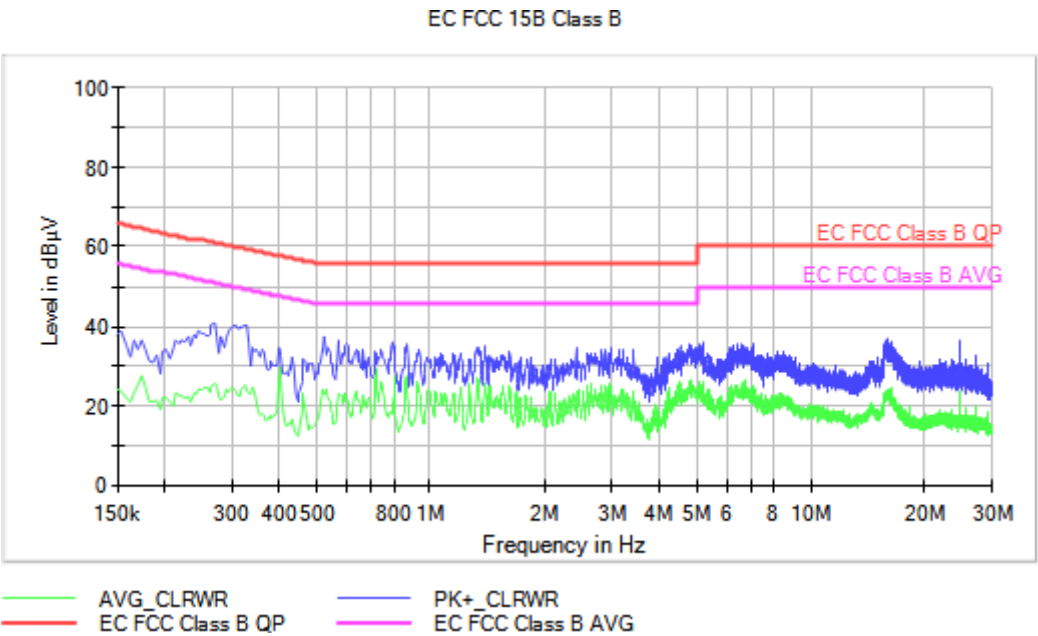
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.154000	38.6	24.6	L1
0.270000	39.6	24.8	L1
0.722000	31.5	27.1	L1
1.010000	30.4	18.2	L1
1.482000	31.5	23.5	L1
2.910000	36.0	23.1	L1
4.930000	34.9	22.4	L1
8.298000	35.5	23.7	L1
15.910000	38.8	23.3	L1
26.626000	34.2	32.3	L1

EMC Test Code = CE01070N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N

Sample ID: S/01

Operation Mode: OM/07. EUT ON. MS in traffic mode, LTE Band 12 . Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

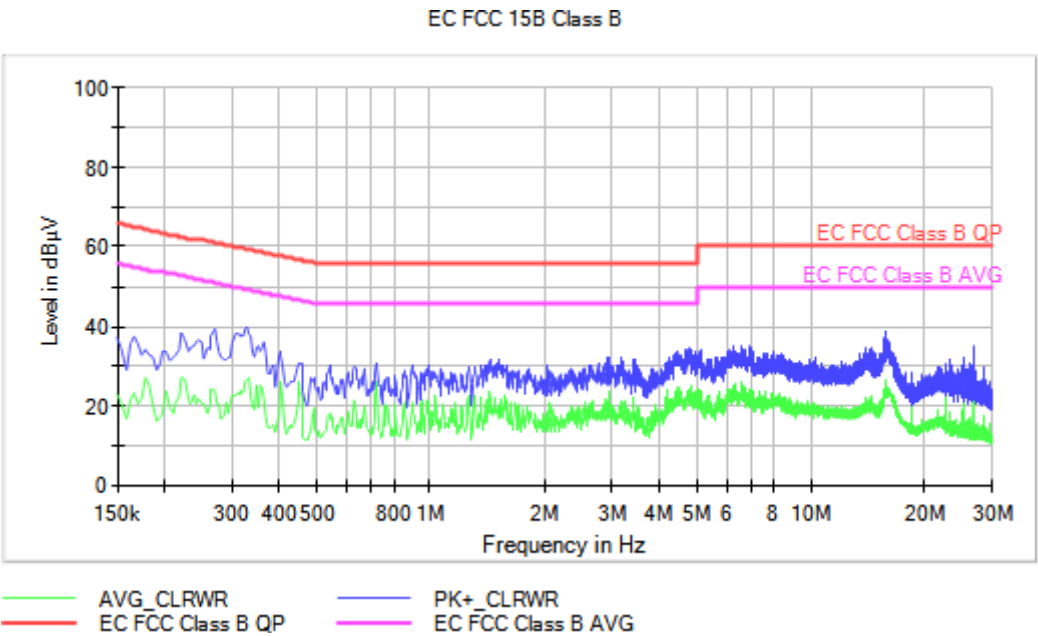
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.154000	39.0	23.5	N
0.270000	40.6	25.4	N
0.526000	37.5	22.8	N
0.790000	35.8	18.0	N
1.386000	35.0	25.5	N
3.002000	34.6	25.3	N
5.238000	36.2	22.6	N
7.046000	35.7	25.3	N
16.102000	36.8	23.1	N
24.738000	36.7	23.5	N

EMC Test Code = CE0107L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1

Sample ID: S/01

Operation Mode: OM/07. EUT ON. MS in traffic mode, LTE Band 12 . Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

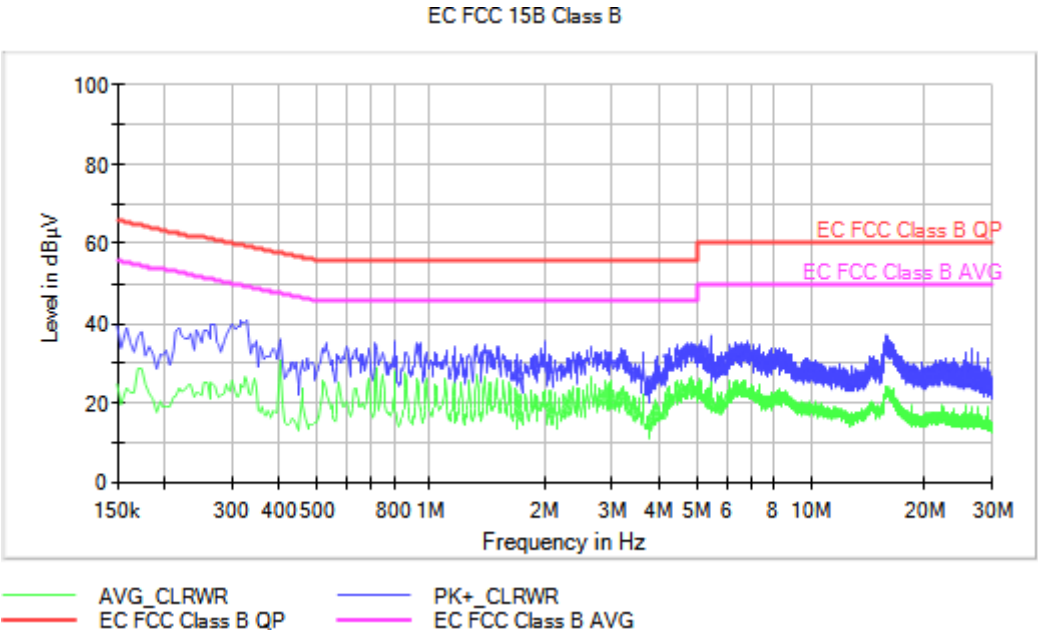
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.222000	38.6	27.1	L1
0.330000	39.7	26.3	L1
0.454000	30.9	23.1	L1
0.994000	30.5	20.8	L1
1.514000	31.8	19.8	L1
2.902000	32.2	18.0	L1
4.818000	34.4	24.0	L1
6.886000	35.2	22.3	L1
15.886000	38.8	23.7	L1
26.622000	35.1	32.5	L1

EMC Test Code = CE01080N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N

Sample ID: S/01

Operation Mode: OM/08. EUT ON. MS in traffic mode, LTE Band 66. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

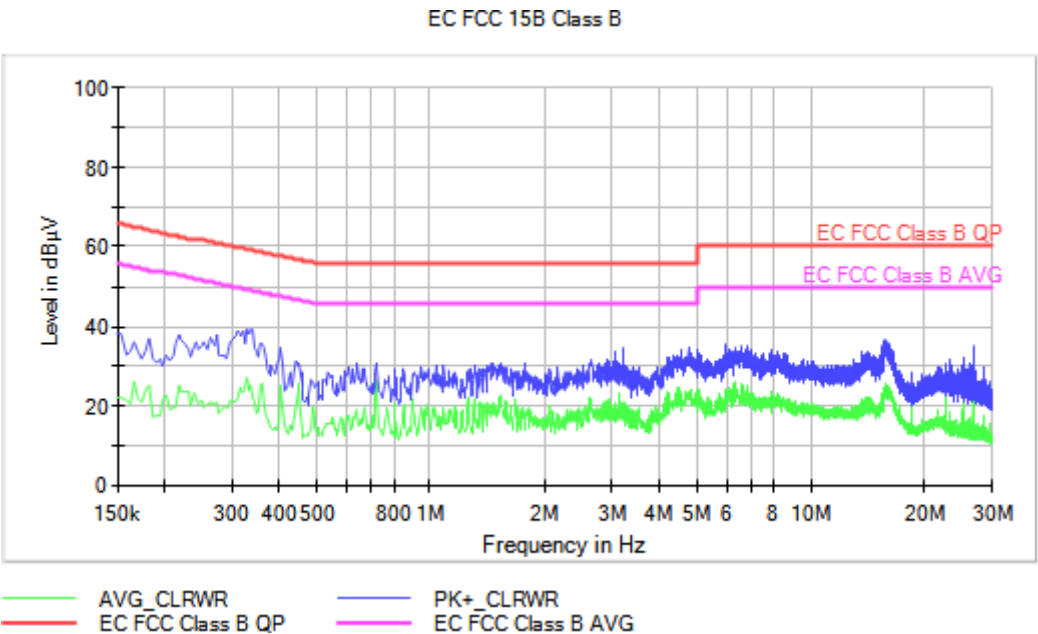
Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)
0.150000	39.2	24.4
0.330000	40.9	24.9
0.530000	35.3	22.8
0.810000	35.7	23.9
1.990000	35.7	22.4
2.658000	34.1	24.0
5.462000	36.8	25.6
6.822000	35.7	22.5
15.938000	37.1	24.3
26.382000	33.5	19.0

EMC Test Code = CE0108L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1

Sample ID: S/01

Operation Mode: OM/08. EUT ON. MS in traffic mode, LTE Band 66. Power Supply: 5 Vdc through the USB port of an auxiliary PC powered at 115Vac 60Hz..

Images:



Documents:

Frequency(MHz)	PK+_CLRWR(dBµV)	AVG_CLRWR(dBµV)	Line
0.150000	38.3	21.7	L1
0.342000	39.4	22.3	L1
0.442000	31.1	20.1	L1
1.082000	30.3	19.4	L1
1.442000	31.0	19.9	L1
3.218000	34.7	20.6	L1
5.982000	35.8	24.1	L1
6.582000	35.0	22.4	L1
15.870000	36.6	23.6	L1
26.622000	35.1	32.5	L1