

EMC TEST REPORT

FCC 47 CFR Part 15B Industry Canada ICES-003

Electromagnetic compatibility - Unintentional radiators

Report Reference No. G0M-1801-7152-EF0115B-V01

Testing Laboratory: Eurofins Product Service GmbH

Address: Storkower Str. 38c

15526 Reichenwalde

Germany

Accreditation:



A2LA Accredited Testing Laboratory, Certificate No.: 1983.01

FCC Test Firm Designation Number: DE0008

IC Testing Laboratory site: 3470A-3

Applicant's name Kamstrup A/S

Address: Industrivej 28

8660 Skanderborg

DENMARK

Test specification:

Standard.....: 47 CFR Part 15 Subpart B

ICES-003, Issue 6:2016

ANSI C63.4:2014

Equipment under test (EUT):

Product description Kamstrup READy Collector Top

Model No. Kamstrup READy Collector Top

Additional Models None

Hardware version RFboard: F1. CPUboard: D4 Complete box: A1

Firmware / Software version C1

Contains FCC-ID: OUY-READYAMI IC: N/A

Test result Passed



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_	USSI	v	16	rear	Lase	VEIU		LO.

- not applicable to test object N/A

- test object does meet the requirement...... P (Pass)

- test object does not meet the requirement...... F (Fail)

Testing:

Compiled by: Ruslan Colbasiuc

Tested by (+ signature)...... R. Colbasiuc / A. Pflug

Approved by (+ signature):

Deputy Head of Lab

Jens Marquardt

Deputy Fledd of Eas

Date of issue: 2018-02-26

Total number of pages: 31

General remarks:

The test results presented in this report relate only to the object tested.

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.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:



Version History

Version	Issue Date	Remarks	Revised by
V01	2018-02-26	Initial Release	



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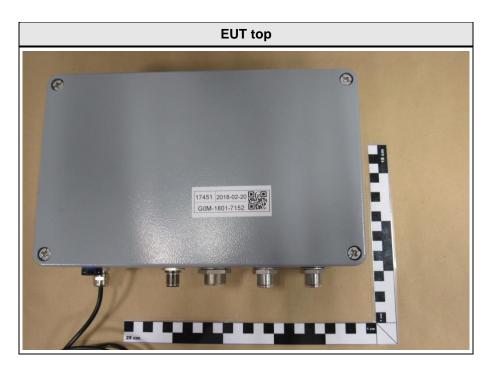


1 Equipment (Test item) Description

Description	Kamstrup READy Collector Top
Model	Kamstrup READy Collector Top
Additional Models	None
Serial number	None
Hardware version	RFboard: F1. CPUboard: D4 Complete box: A1
Software / Firmware version	C1
Contains FCC-ID	OUY-READYAMI
Contains IC	N/A
Power supply	24 VDC
AC/DC-Adaptor	Model: PE-3747-675 Manufacturer: I.T.E. Power Supply Input: 100-240 VAC (60/50 Hz) Output: 5-24 VDC
Manufacturer	Kamstrup A/S Industrivej 28 8660 Skanderborg DENMARK
Highest internal frequency	5320 MHz
Device classification	Class B
Equipment type	Tabletop
Number of tested samples	1
Protective Earth / Ground	Yes
Functional Earth	No



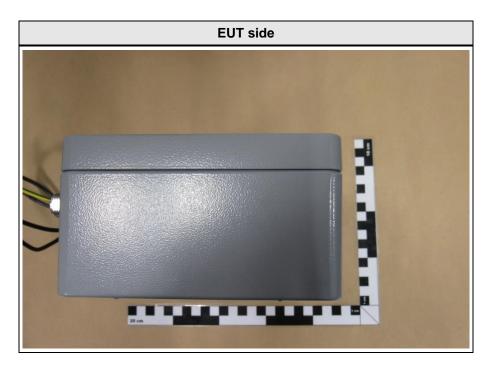
1.1 Photos – Equipment external

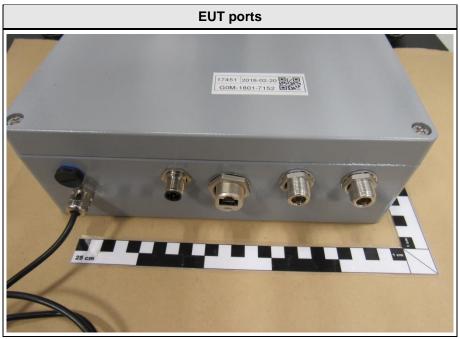






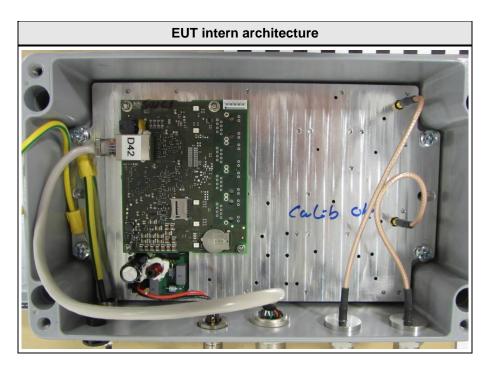
Product Service

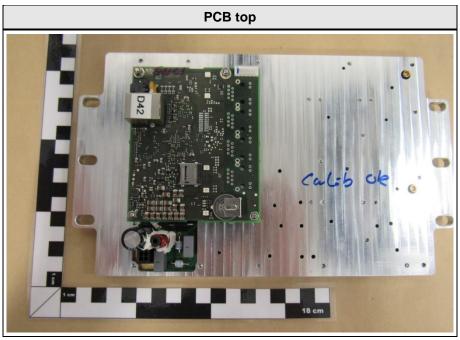




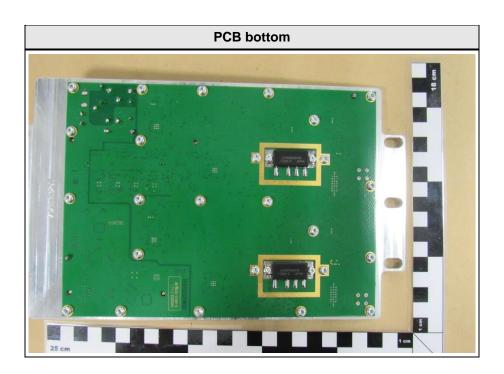


1.2 Photos – Equipment internal



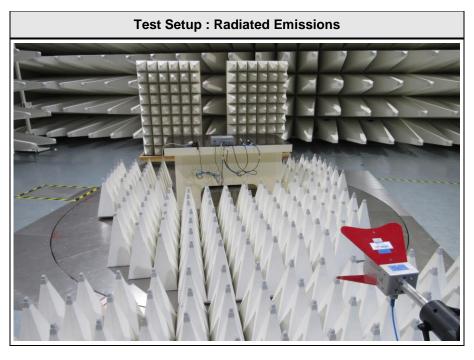


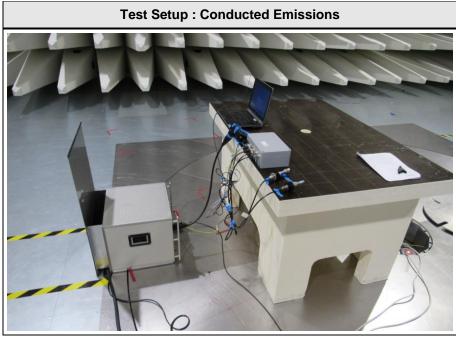






1.3 Photos - Test setup







1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments (e.g. serial no.)			
CABL	LAN cable	Kamstrup	5000 480				
CABL	DC cable	Kamstrup	5000 481				
CABL	Antenna cable	Kamstrup	5000 389	x2			
SIM	Laptop	DELL	Latitude E6430				
	None						

*Note: Use the following abbreviations:

AE: Auxiliary/Associated Equipment, or SIM: Simulator (Not Subjected to Test)

CABL: Connecting cables

1.5 Input / Output Ports

Port #	Name	Type*	Max. Cable Length	Cable Shielded	Comments (e.g. Cat. of Cable)
1	Power Port	DC	85 m	No	
2	Ethernet	I/O	85 m	Yes	
3	Antenna Port 1	I/O	5 m	Yes	
4	Antenna Port 2	I/O	5 m	Yes	

*Note: Use the following abbreviations:

AC : AC power port
DC : DC power port
N/E : Non electrical

I/O : Signal input or output port

TP : Telecommunication port



1.6 Operating Modes and Configurations

Mode #	Description				
1	./Mod_mid_0. On device is set up a modulated spectrum at max power (37dBm) on the middle frequency (460.65 MHz) on radio 0.				
2	./Mod_mid_1. On device is set up a modulated spectrum at max power (37dBm) on the middle frequency (460.65 MHz) on radio 1.				

Configuration #	EUT Configuration					
1	Device powered up and connected via LAN with the PC. On the PC runs the script ./Mod_mid_0. The device is in Tx mode on output radio 0 and has a LAN communication with the PC.					
2	Device powered up and connected via LAN with the PC. On the PC runs the script ./Mod_mid_1. The device is in Tx mode on output radio 1 and has a LAN communication with the PC.					



1.7 Test Equipment Used During Testing

Measurement Software						
Description	Manufacturer	Name	Version			
EMC Test Software	Dare Instruments	Radimation	2016.1.10			

Conducted emissions AC6								
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due			
LISN	Schwarzbeck	NSLK 8128	EF00975	2017-07	2019-07			
EMI Test Receiver	Rohde & Schwarz Vertriebs GmbH	ESU26	EF00887	2017-07	2018-07			
Pulse Limiter	R&S	ESH3-Z2	EF01063	2017-07	2018-07			
Cable	-	RG223/U	-	System Cal.	System Cal.			

Radiated emissions AC6								
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due			
TRILOG Broadband Antenna	Schwarzbeck	VULB 9162	EF00978	2016-11	2019-11			
Double-Ridged Guide Antenna	ETS-Lindgren	3117	EF00976	2016-03	2019-03			
EMI Test Receiver	R&S	ESU26	EF00887	2017-07	2018-07			
RF Cable	Huber & Suhner	Sucoflex 106	-	System Cal.	System Cal			
RF Cable	Huber & Suhner	Multiflex 141	-	System Cal.	System Cal			



1.8 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 analyzer in $dB\mu V$. Any external preamplifiers used are taken into account through internal analyzer 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 analyzer. 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:

Reading on Analyzer (dB μ V) + A.F. (dB) = Net field strength (dB μ 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 $dB\mu V/m$). The FCC limits are given in units of $\mu V/m$. The following formula is used to convert the units of $\mu V/m$ to $dB\mu V/m$:

Limit $(dB\mu V/m) = 20*log (\mu V/m)$

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 dB μ V + 26 dB = 47.5 dB μ V/m : 47.5 dB μ V/m - 57.0 dB μ V/m = -9.5 dB



2 Result Summary

FCC 47 CFR Part 15B, Industry Canada ICES-003							
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks			
47 CFR 15.109 ICES-003 Item 6.2	Radiated emissions	ANSI C 63.4	PASS				
47 CFR 15.107 ICES-003 Item 6.1 AC power line conducted emissions ANSI C63.4 PASS							
Remarks:							



3 Test Conditions and Results

3.1 Test Conditions and Results - Radiated emissions

Radiated emission	ons acc. FCC 47 Cl	FR 15.109	/ ICES-003		Verdict:	PASS		
Laboratory	Parameters:	Requir	ed prior to the test	During the test				
Ambient T	emperature		15 to 35 °C		22 °C			
Relative	Humidity		30 to 60 %		30 %			
Test accordi	ng referenced		Referenc	e Metho	d			
	dards		ANSI	C63.4				
Sample is tested	with respect to the		Equipme	ent class				
	ne equipment class	Class B						
Test frequency ran	ge determined from	Highest emission frequency						
Test frequency range determined from highest emission frequency		Fmax [MHz] = 5320						
Fully configured sample scanned over		Frequency range						
	equency range	30 MHz to 27 GHz						
Operati	ng mode	1/2						
Config	uration	1/2						
	L	imits and i	results Class B					
Frequency [MHz]	Quasi-Peak [dBµV/r	n] Result	Average [dBµV/m]	Result	Peak [dBµV/m]	Result		
30 – 88	40	PASS	-		-	-		
88 – 216	43.5	PASS	-		-	-		
216 – 960	46	PASS	-		-	-		
960 – 1000	54	PASS	-		-	-		
> 1000	-	-	54	PASS	74	PASS		



Test Procedure:

The test site is in accordance with ANSI C63-4:2014 requirements and is listed by FCC. The measurement procedure is as follows:

Exploratory measurement:

- The EUT was placed on a non-conductive table at a height of 0.8m.
- The EUT and support equipment, if needed, were set up to simulate typical usage.
- 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.
- The antenna was placed at a distance of 3 or 10 m.
- The received signal was monitored at the measurement receiver.
 - Cables not bundled were manipulated within the range of likely arrangements to produce the highest emission amplitude
 - To maximize the suspected emissions the EUT is rotated 360 degrees. If the signal exceeds the previous amplitude, go back to the corresponding azimuth and manipulate the cables again for maximizing the emissions if possible.
 - Move the antenna from 1 to 4m to maximize the suspected highest amplitude signal.
- This procedure has to be performed in both antenna polarizations, horizontal and vertical.
- The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 1.3.

Final measurement:

- 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
- 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
- The EUT and cable arrangement were based on the exploratory measurement results
- Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
- The test data of the worst-case conditions were recorded and shown on the next pages.



Project number: G0M-1801-7152

Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top Model: Kamstrup READy Collector Top Test Site: Eurofins Product Service GmbH

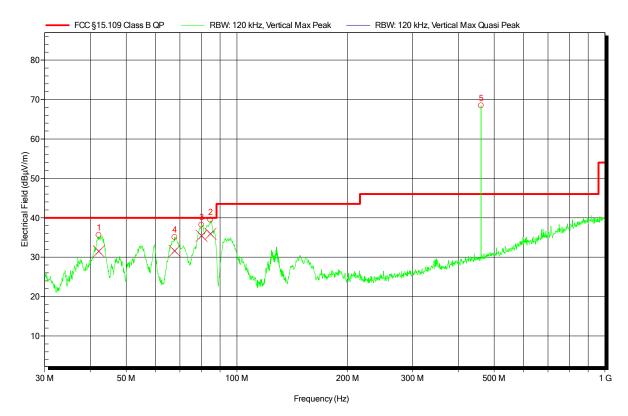
Operator: Mr. Colbasiuc

Test Conditions: Tnom: 22°C, Unom: 120 VAC/60 Hz Antenna: Schwarzbeck VULB 9162, Vertical

Measurement distance: 3 m Mode: 1

Test Date: 2018-02-22

Note:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	42.12 MHz	31.5 dBµV/m	40 dBµV/m	-8.5 dB	Pass	0 Degree	1 m
2	84.78 MHz	35.9 dBµV/m	40 dBµV/m	-4.1 dB	Pass	0 Degree	1 m
3	80.16 MHz	35.4 dBµV/m	40 dBµV/m	-4.6 dB	Pass	0 Degree	1 m
4	67.74 MHz	31.6 dBµV/m	40 dBµV/m	-8.4 dB	Pass	0 Degree	1 m
5	460.66 MHz	Carrier				0 Degree	1 m



Project number: G0M-1801-7152

Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top Model: Kamstrup READy Collector Top Test Site: Eurofins Product Service GmbH

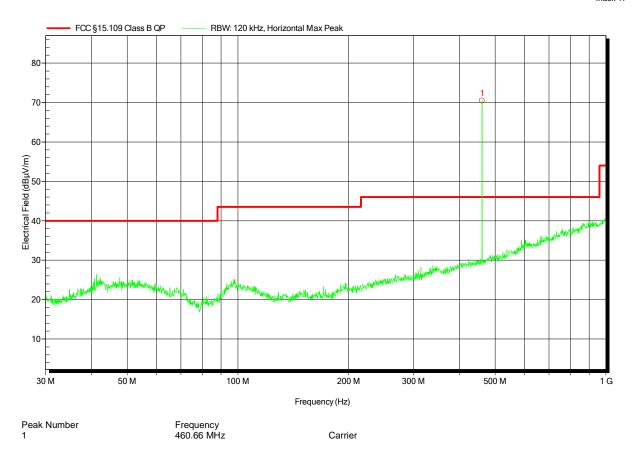
Operator: Mr. Colbasiuc

Test Conditions: Tnom: 22°C, Unom: 120 VAC/60 Hz Antenna: Schwarzbeck VULB 9162, Horizontal

Measurement distance: 3 m Mode: 1

Test Date: 2018-02-22

Note:





Project number: G0M-1801-7152

Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top Model: Kamstrup READy Collector Top Test Site: Eurofins Product Service GmbH

Operator: Mr. Colbasiuc

Test Conditions: Tnom: 22°C, Unom: 120 VAC/60 Hz Antenna: Schwarzbeck VULB 9162, Vertical

Measurement distance: 3 m Mode: 2

Test Date: 2018-02-22

Note:



Peak Number	Frequency 41.82 MHz	Quasi-Peak 31.2 dBuV/m	Quasi-Peak Limit 40 dBuV/m	Quasi-Peak Difference -8.8 dB	Quasi-Peak Status Pass	Angle 0 Degree	Height
1			- · · ·				1 m
2	68.52 MHz	30.8 dBµV/m	40 dBµV/m	-9.2 dB	Pass	0 Degree	1 m
3	86.04 MHz	35.4 dBµV/m	40 dBµV/m	-4.6 dB	Pass	0 Degree	1 m
4	79.56 MHz	33.8 dBµV/m	40 dBµV/m	-6.2 dB	Pass	0 Degree	1 m
5	54.9 MHz	29.4 dBµV/m	40 dBµV/m	-10.6 dB	Pass	0 Degree	1 m
6	460.66 MHz	Carrier	·			0 Degree	1 m



Project number: G0M-1801-7152

Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top
Model: Kamstrup READy Collector Top
Test Site: Eurofins Product Service GmbH

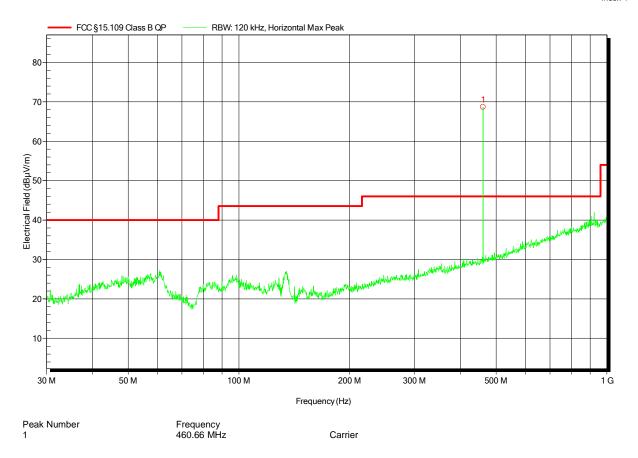
Operator: Mr. Colbasiuc

Test Conditions: Tnom: 22°C, Unom: 120 VAC/60 Hz Antenna: Schwarzbeck VULB 9162, Horizontal

Measurement distance: 3 m Mode: 2

Test Date: 2018-02-22

Note:





Project number: G0M-1801-7152

Kamstrup A/S Applicant:

EUT Name: Kamstrup READy Collector Top Model: Kamstrup READy Collector Top Test Site: Eurofins Product Service GmbH

Operator: Mr. Colbasiuc

Tnom: 22°C, Unom: 120 VAC/60 Hz **Test Conditions:**

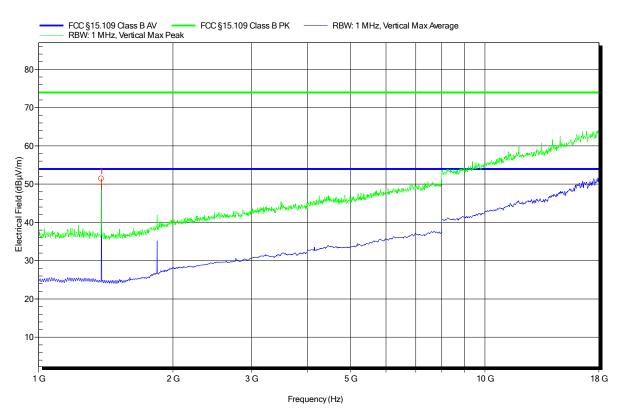
ETS-Lindgren 3117, Vertical Antenna:

Measurement distance: 3 m Mode: 1

Test Date: 2018-02-22

Note:

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Peak Number Frequency

1.382 GHz 3rd harmonic

from carrier



Project number: G0M-1801-7152

Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top
Model: Kamstrup READy Collector Top
Test Site: Eurofins Product Service GmbH

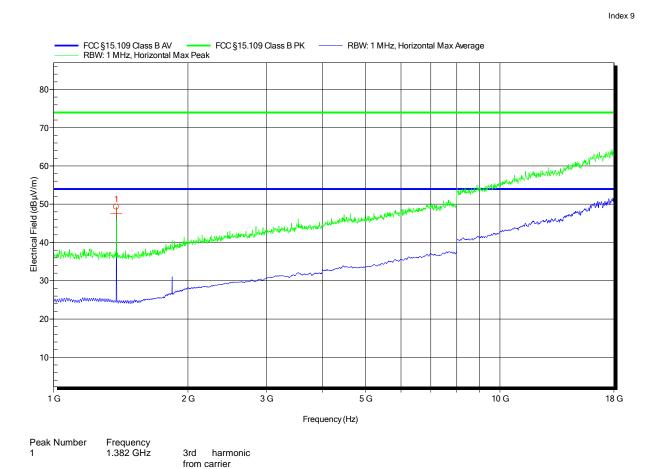
Operator: Mr. Colbasiuc

Test Conditions: Tnom: 22°C, Unom: 120 VAC/60 Hz Antenna: ETS-Lindgren 3117, Horizontal

Measurement distance: 3 m Mode: 1

Test Date: 2018-02-22

Note:





Project number: G0M-1801-7152

Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top Kamstrup READy Collector Top Model: Test Site: Eurofins Product Service GmbH

Mr. Colbasiuc Operator:

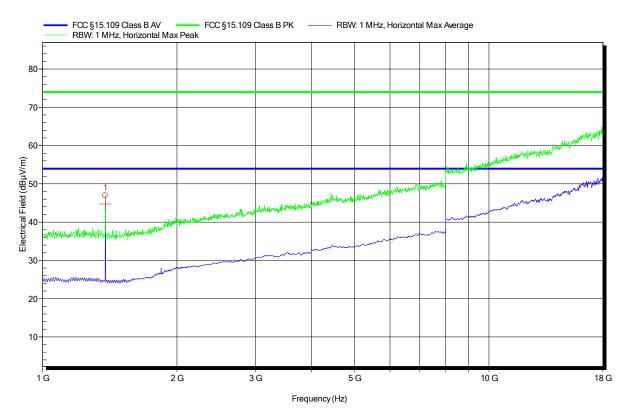
Test Conditions: Tnom: 22°C, Unom: 120 VAC/60 Hz ETS-Lindgren 3117, Horizontal Antenna:

Measurement distance: 3 m Mode: 2

2018-02-22 Test Date:

Note:

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Peak Number Frequency

3rd harmonic

from carrier



Project number: G0M-1801-7152

Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top
Model: Kamstrup READy Collector Top
Test Site: Eurofins Product Service GmbH

Operator: Mr. Colbasiuc

Test Conditions: Tnom: 22°C, Unom: 120 VAC/60 Hz

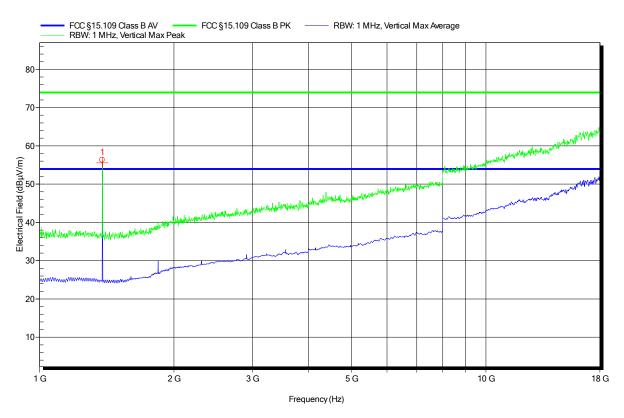
Antenna: ETS-Lindgren 3117, Vertical

Measurement distance: 3 m Mode: 2

Test Date: 2018-02-22

Note:

Index 16



Peak Number Frequency 1 1.382 GHz

.382 GHz 3rd harmonic

from carrier



3.2 Test Conditions and Results – AC power line conducted emissions

Conducted emission	107 / ICES-003			Verdict: PASS		
Laboratory Para	Requ	uired prior to the t	est	During the test		
Ambient Temp	erature		15 to 35 °C		2	2°C
Relative Hur	nidity		30 to 60 %		3	30 %
Test according re	eferenced		Re	eference	Method	
standards				ANSI C	63.4	
Fully configured sample scanned over the following frequency range			Fi	requency	/ range	
		0.15 MHz to 30 MHz				
Sample is tested with respect to the		Equipment class				
requirements of the ed	quipment class	Class B				
Points of Appl	ication	Application Interface				
AC Main	S	LISN				
Operating n	node	1/2				
Configurat	ion	1/2				
	L	imits and	l results Class B			
Frequency [MHz]	Quasi-Peak [dBµV]	Result	Avera	age [dBµV]	Result
0.15 to 5	66 to 56	*	PASS	56	6 to 46*	PASS
0.5 to 5	56		PASS		46	PASS
5 to 30	60		PASS		50	PASS

^{*} Limit decreases linearly with the logarithm of the frequency.



Test Procedure:

The test site is in accordance with ANSI C63-4:2014 requirements and is listed by FCC. The measurement procedure is as follows:

Exploratory measurement:

- 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

Test Procedure:

Final measurement:

- 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.



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Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top Model: Kamstrup READy Collector Top Test Site: Eurofins Product Service GmbH

Operator: Mr. Colbasiuc

Test Conditions: Tnom: 22°C, Unom: 120 VAC/ 60 Hz

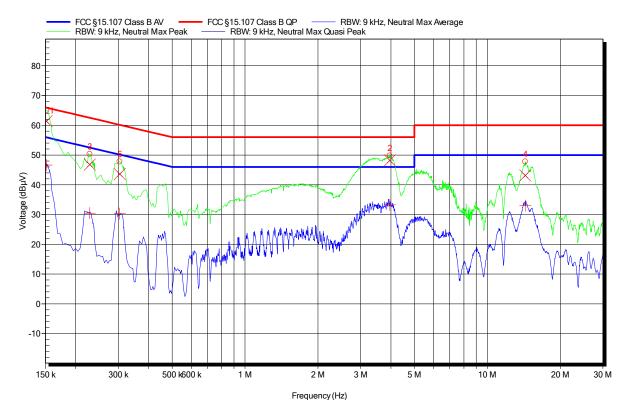
LISN: Schwarzbeck NSLK 8128 (N)

Mode:

Test Date: 2018-02-23

Note:

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Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	151.8 kHz	61.4 dBµV	65.9 dBµV	-4.5 dB	Pass
2	3.962 MHz	48.2 dBµV	56 dBµV	-7.8 dB	Pass
3	228.75 kHz	46.8 dBµV	62.5 dBµV	-15.7 dB	Pass
4	14.343 MHz	43.1 dBµV	60 dBµV	-16.9 dB	Pass
5	303.9 kHz	43.6 dBµV	60.1 dΒμV	-16.5 dB	Pass
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	151.8 kHz	46.6 dBµV	55.9 dBµV	-9.3 dB	Pass
2	3.962 MHz	33.2 dBµV	46 dBµV	-12.8 dB	Pass
3	228.75 kHz	30.4 dBµV	52.5 dBµV	-22.0 dB	Pass
4	14.343 MHz	33 dBµV	50 dBµV	-17.0 dB	Pass
5	303.9 kHz	30.3 dBµV	50.1 dBµV	-19.9 dB	Pass



Project number: G0M-1801-7152

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EUT Name: Kamstrup READy Collector Top Model: Kamstrup READy Collector Top Test Site: Eurofins Product Service GmbH

Operator: Mr. Colbasiuc

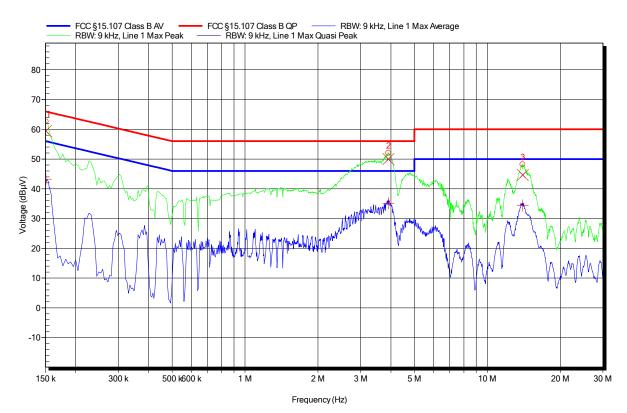
Test Conditions: Tnom: 22°C, Unom: 120 VAC/ 60 Hz

LISN: Schwarzbeck NSLK 8128 (L)

Mode:

Test Date: 2018-02-23

Note:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	150.9 kHz	59.4 dBµV	66 dBµV	-6.6 dB	Pass
2	3.908 MHz	50 dBµV	56 dBµV	-6.0 dB	Pass
3	13.988 MHz	44.6 dBµV	60 dBµV	-15.4 dB	Pass
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	150.9 kHz	43.3 dBµV	56 dBµV	-12.7 dB	Pass
2	3.908 MHz	35.1 dBµV	46 dBµV	-10.9 dB	Pass
3	13.988 MHz	34.4 dBµV	50 dBµV	-15.6 dB	Pass



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Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top Model: Kamstrup READy Collector Top Test Site: Eurofins Product Service GmbH

Operator: Mr. Colbasiuc

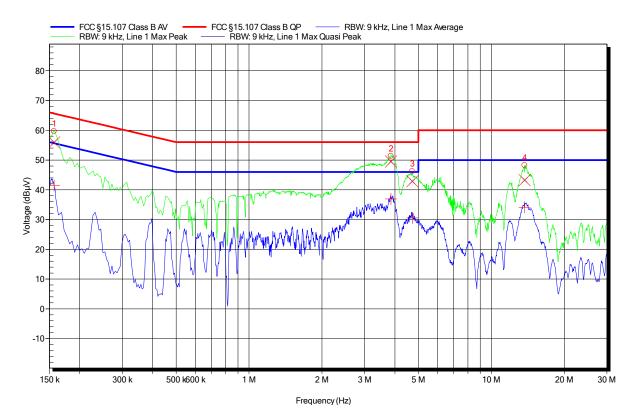
Test Conditions: Tnom: 22°C, Unom: 120 VAC/ 60 Hz

LISN: Schwarzbeck NSLK 8128 (L)

Mode:

Test Date: 2018-02-23

Note:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	156.75 kHz	55.9 dBµV	65.6 dBµV	-9.7 dB	Pass
2	3.854 MHz	49.5 dBµV	56 dBµV	-6.5 dB	Pass
3	4.718 MHz	42.9 dBµV	56 dBµV	-13.1 dB	Pass
4	13.722 MHz	43.3 dBµV	60 dBµV	-16.7 dB	Pass
5	_			. 5	
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	156.75 kHz	41.5 dBµV	55.6 dBµV	-14.2 dB	Pass
2	3.854 MHz	36.9 dBµV	46 dBµV	-9.1 dB	Pass
3	4.718 MHz	30.5 dBµV	46 dBµV	-15.5 dB	Pass
4	13.722 MHz	34.1 dBµV	50 dBμV	-15.9 dB	Pass



Project number: G0M-1801-7152

Applicant: Kamstrup A/S

EUT Name: Kamstrup READy Collector Top Model: Kamstrup READy Collector Top Test Site: Eurofins Product Service GmbH

Operator: Mr. Colbasiuc

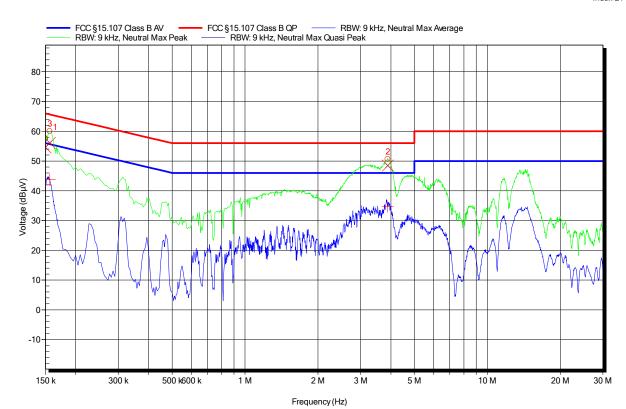
Test Conditions: Tnom: 22°C, Unom: 120 VAC/ 60 Hz

LISN: Schwarzbeck NSLK 8128 (N)

Mode:

Test Date: 2018-02-23

Note:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	150 kHz	54.6 dBµV	66 dBµV	-11.4 dB	Pass
2	3.881 MHz	48.4 dBµV	56 dBµV	-7.6 dB	Pass
3	156.3 kHz	56.1 dBµV	65.7 dΒμV	-9.6 dB	Pass
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	150 kHz	42 dBµV	56 dBµV	-14.0 dB	Pass
2	3.881 MHz	34.7 dBµV	46 dBµV	-11.3 dB	Pass
3	156.3 kHz	43.7 dBµV	55.7 dBμV	-11.9 dB	Pass