eurofins | Product Service

EMC TEST REPORT

FCC 47 CFR Part 15B
Industry Canada ICES-003

Electromagnetic compatibility - Unintentional radiators

Report Reference No. ..... :	G0M-1603-5477-EF0115B-V02
Testing Laboratory ..... :	Eurofins Product Service GmbH
Address ..... :	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation ..... :	 A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A
Applicant's name ..... :	Owlet GmbH
Address ..... :	Mosbacher Str. 9 65187 Wiesbaden GERMANY
Test specification:	
Standard..... :	47 CFR Part 15 Subpart B ICES-003, Issue 6:2016 ANSI C63.4:2014
Equipment under test (EUT):	
Product description	Luminaire Controller
Model No.	LUCO P7 CM
Additional Models	None
Hardware version	3A-2213-2100-7238-1111
Firmware / Software version	3.12.10.17
	FCC-ID: 2AIOB-LCP7CM IC: 21585-LCP7CM
Test result	**Passed**

Possible test case verdicts:		
- 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:		
Date of receipt of test item ..... :		2016-08-03
Date (s) of performance of tests ..... :		2016-08-10 – 2016-08-15
Compiled by..... :	Yu Yu	
Tested by (+ signature)..... :	Yu Yu	Yu Yu
Approved by (+ signature) ..... : Test Lab Engineer	Jens Marquardt	
Date of issue..... :	2016-12-07	
Total number of pages..... :	44	

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.

Additional comments:

The RFID function is deactivated by the customer for all the tests, no RFID monitoring.

Version History

Version	Issue Date	Remarks	Revised by
V01	2016-09-28	Initial Release	
V02	2016-12-07	Module information corrected	C. Weber

REPORT INDEX

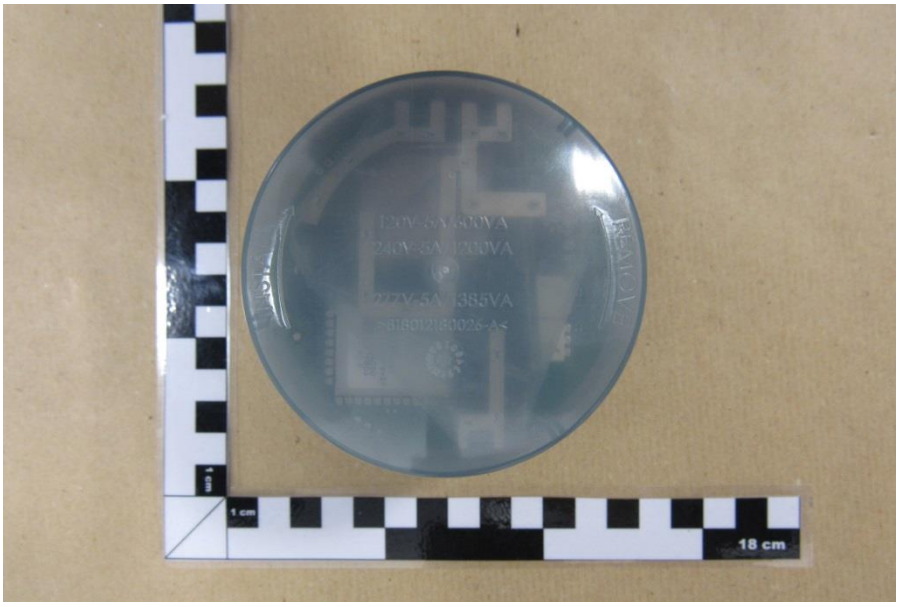
1 Equipment (Test item) Description

Description	Luminaire Controller	
Model	LUCO P7 CM	
Additional Models	None	
Serial number	None	
Hardware version	3A-2213-2100-7238-1111	
Software / Firmware version	3.12.10.17	
FCC-ID	2AIOB-LCP7CM	
IC	21585-LCP7CM	
Power supply	120V AC	
Radio module	Type	Five-Band 3G (HSPA) module
	Model	EHS8
	Manufacturer	Gemalto M2M GmbH
	FCC-ID	QIPEHS8
	IC	7803A-EHS8
	IMEI	35704406.001757.8
Radio module	Type	XBee Singular Module
	Model	S2D
	Manufacturer	Digi International Inc.
	HW Version	XB24DZ7RIS (-I102)
	SW Version	705A/705B
	FCC-ID	MCQ-S2DSM
	IC	1846A-S2DSM
Manufacturer	Owlet GmbH Mosbacher Str. 9 65187 Wiesbaden GERMANY	
Highest emission frequency	2.48GHz	
Device classification	Class B	
Equipment type	Tabletop	
Number of tested samples	1	
Protective Earth / Ground	None	

Functional Earth	None

1.1 Photos – Equipment external

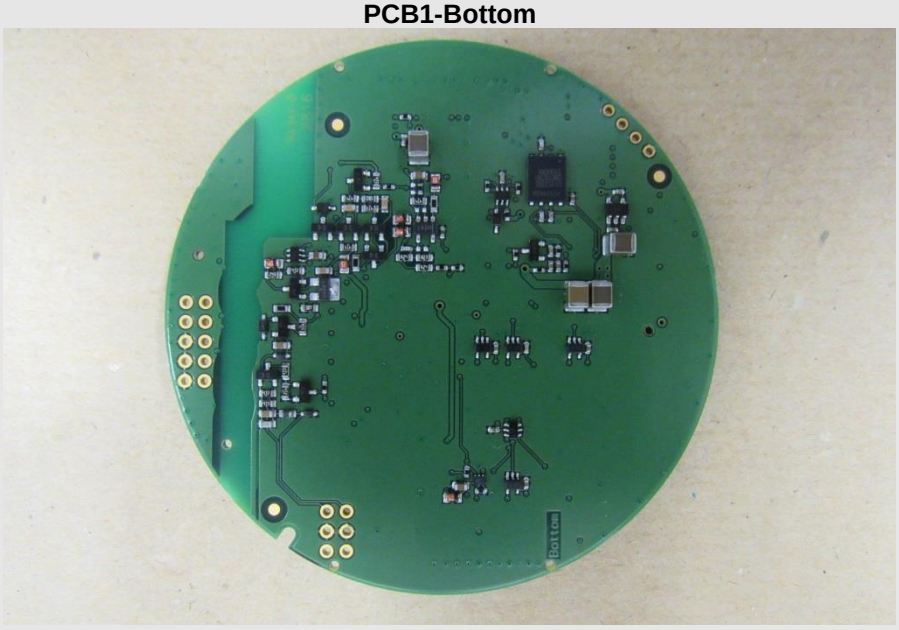
EUT-Front

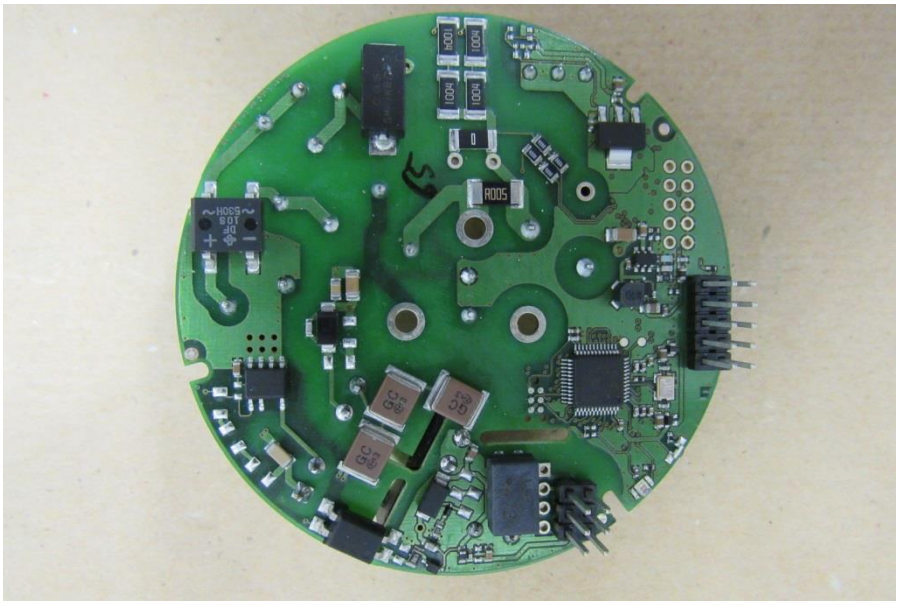

EUT-Top


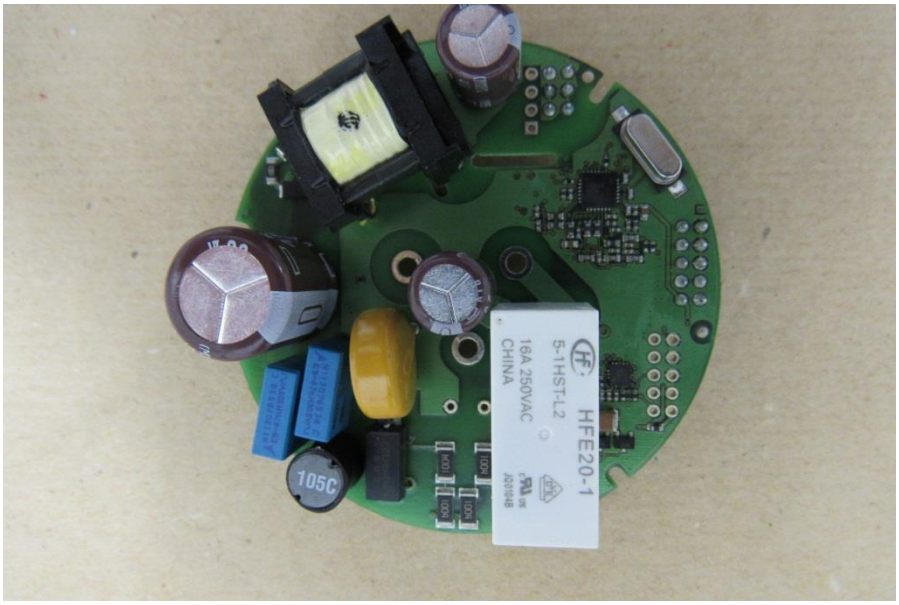
EUT-Bottom

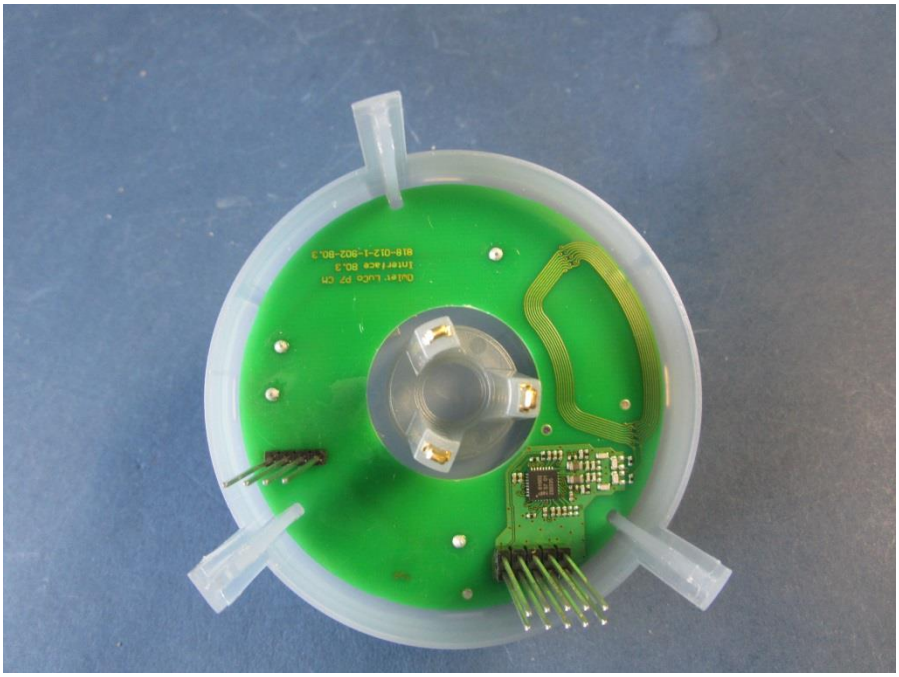

1.2 Photos – Equipment internal

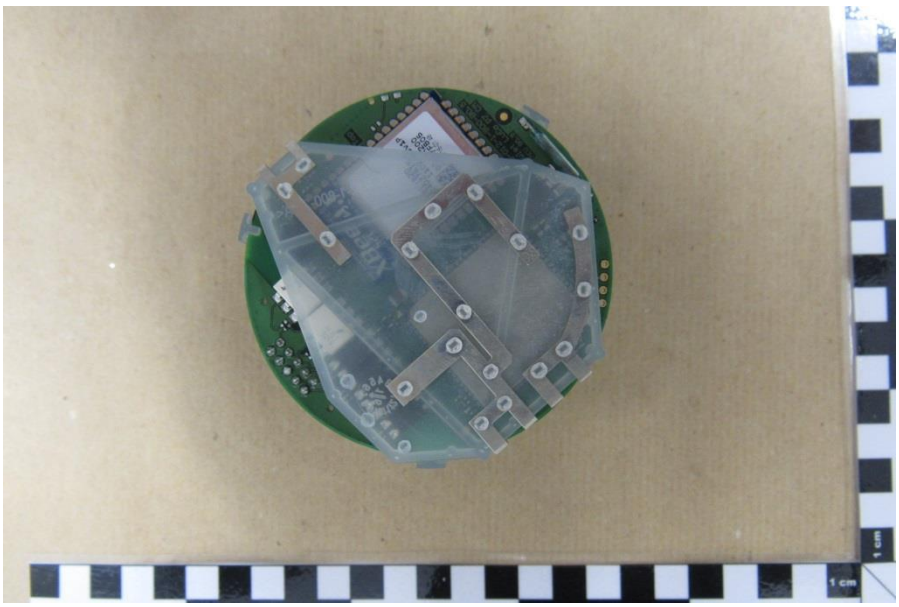
PCB1-Top


PCB1-Bottom


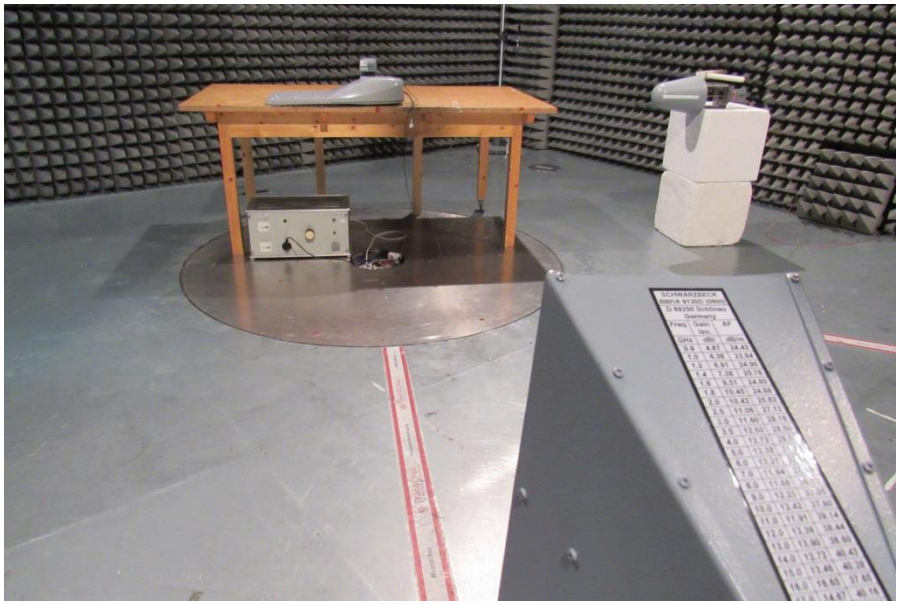
PCB2-Top


PCB2-Bottom


PCB3


Antenna


1.3 Photos – Test setup

Test Setup : Radiated Emissions


Test Setup : Conducted Emissions


Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments (e.g. serial no.)
AE	LED Luminaire	Schreder	-	-
AE	Laptop	DELL	Latitude	-
AE	Segment controller	Owlet	Nightshift	-
SIM	Universal radio communication tester	R&S	CMU200	-
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	AC	0.3m	No	Direct plug-in
2	Dimming	I/O	0.3m	No	DALI/1-10V

***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	GPS reception + Zigbee communication + GSM850 link
1	GPS reception + Zigbee communication + UMTS Band V link

Configuration #	EUT Configuration
1	Relay on

1.7 Test Equipment Used During Testing

Measurement Software			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2015.1.12

Radiated emissions – 3m Chamber					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	EF00012	2016-05	2019-05
LPD-Antenne	R&S	HL 223	EF00187	2016-05	2019-05
Horn antenna	Schwarzbeck	BBHA 9120D	EF00018	2013-09	2016-09
EMI Test Receiver	R&S	ESU26	EF00887	2016-01	2017-01
RF Cable			-	System Cal.	System Cal
RF Cable			-	System Cal.	System Cal

Radiated emissions – 10m Chamber					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	EF00012	2016-05	2019-05
LPD-Antenne	R&S	HL 223	EF00187	2016-05	2019-05
Horn antenna	Schwarzbeck	BBHA 9120D	EF00018	2013-09	2016-09
EMI Test Receiver	Keysight	N9038A-526	EF01070	2015-08	2016-08
RF Cable	Huber & Suhner	Sucoflex 106	-	System Cal.	System Cal
RF Cable	Huber & Suhner	Multiflex 141	-	System Cal.	System Cal

Conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	EF00182	2014-11	2016-11
AMN	R&S	ESH3-Z5	EF00036	2014-12	2016-12
AMN	Schwarzbeck	NSLK 8128	EF00975	2015-12	2016-12
EMI Test Receiver	R&S	ESR7	EF00943	2015-09	2016-09
EMI Test Receiver	Keysight	N9038A-526	EF01070	2015-08	2016-08
Cable	-	RG58/U	-	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 dBµV. 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 (dBµV) + A.F. (dB) = Net field strength (dBµV/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:

Limit (dBµV/m) = 20*log (µV/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	=	47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/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 emissions acc. FCC 47 CFR 15.109 / ICES-003		**Verdict: PASS**
Laboratory Parameters:	Required prior to the test	During the test
Ambient Temperature	15 to 35 °C	23.4°C
Relative Humidity	30 to 60 %	53%
Test according referenced standards	Reference Method	
	ANSI C63.4	
Sample is tested with respect to the requirements of the equipment class	Equipment class	
	Class B	
Test frequency range determined from highest emission frequency	Highest emission frequency	
	2.48GHz	
Fully configured sample scanned over the following frequency range	Frequency range	
	30 MHz to 14 GHz	
Operating mode	1/2	
Configuration	1	

Limits and results Class B

Frequency [MHz]	Quasi-Peak [dBµV/m]	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

Comments:

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.

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3m
Mode:	1
Test Date:	2016-08-11
Note:	

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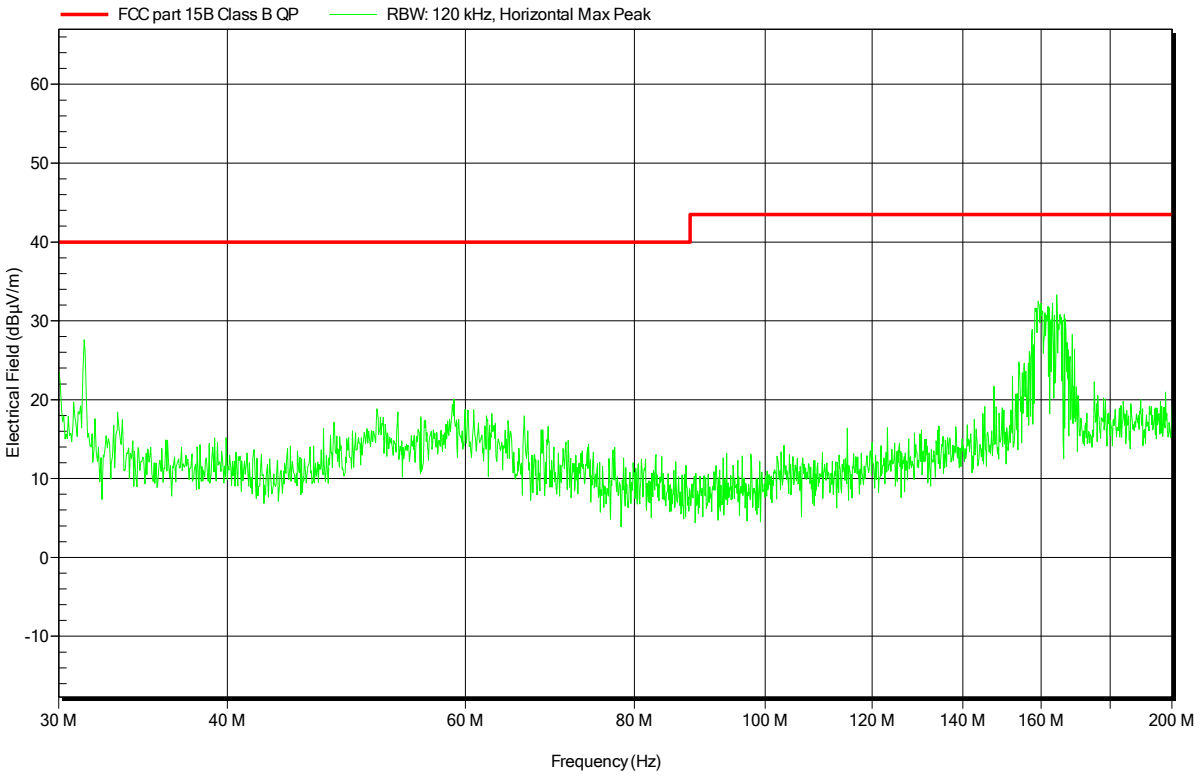

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Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3m
Mode:	1
Test Date:	2016-08-11
Note:	

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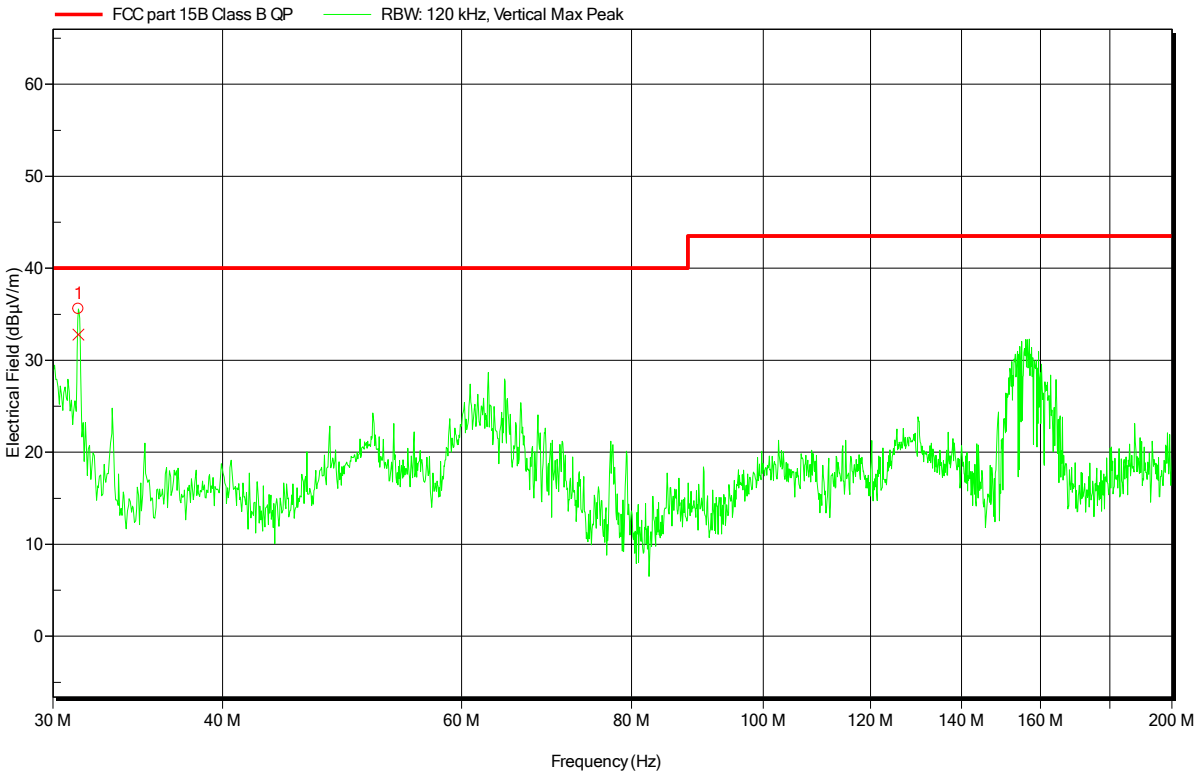

Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	31.332 MHz	32.78 dBµV/m	40 dBµV/m	-7.22 dB	Pass	188 Degree	1 m

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

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Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3m
Mode:	1
Test Date:	2016-08-11
Note:	

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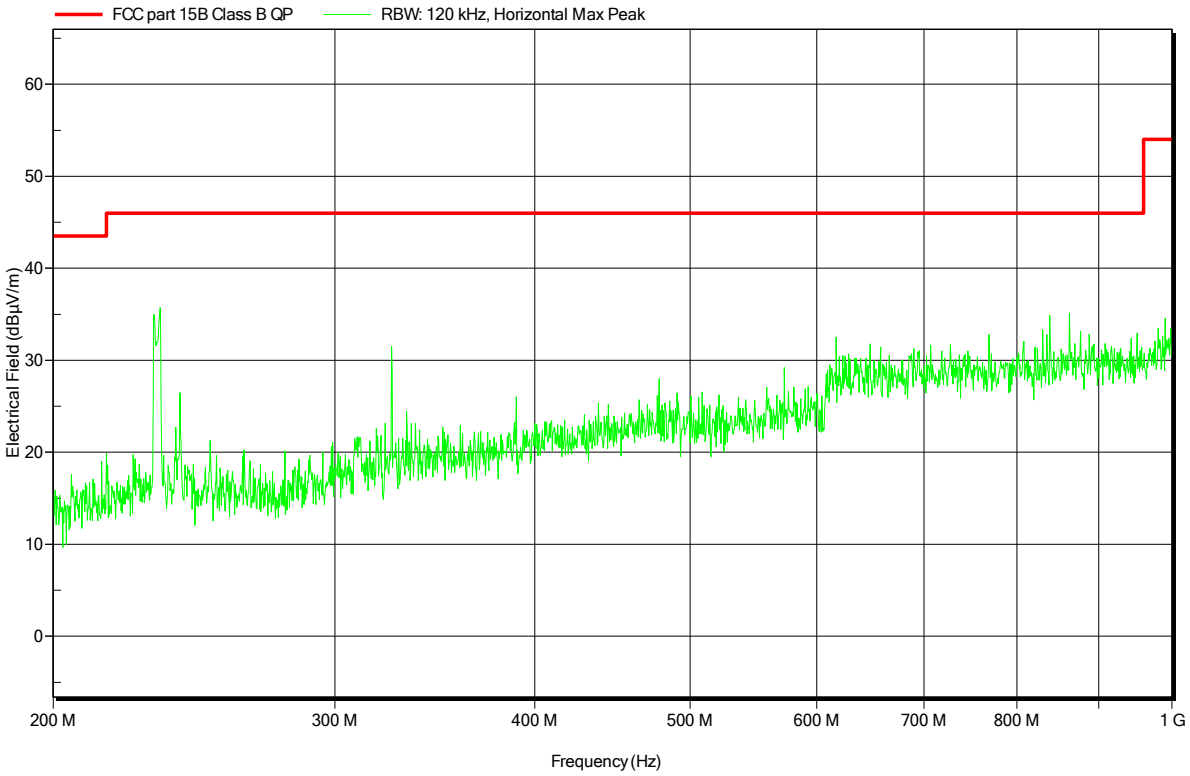

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

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Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3m
Mode:	1
Test Date:	2016-08-11
Note:	

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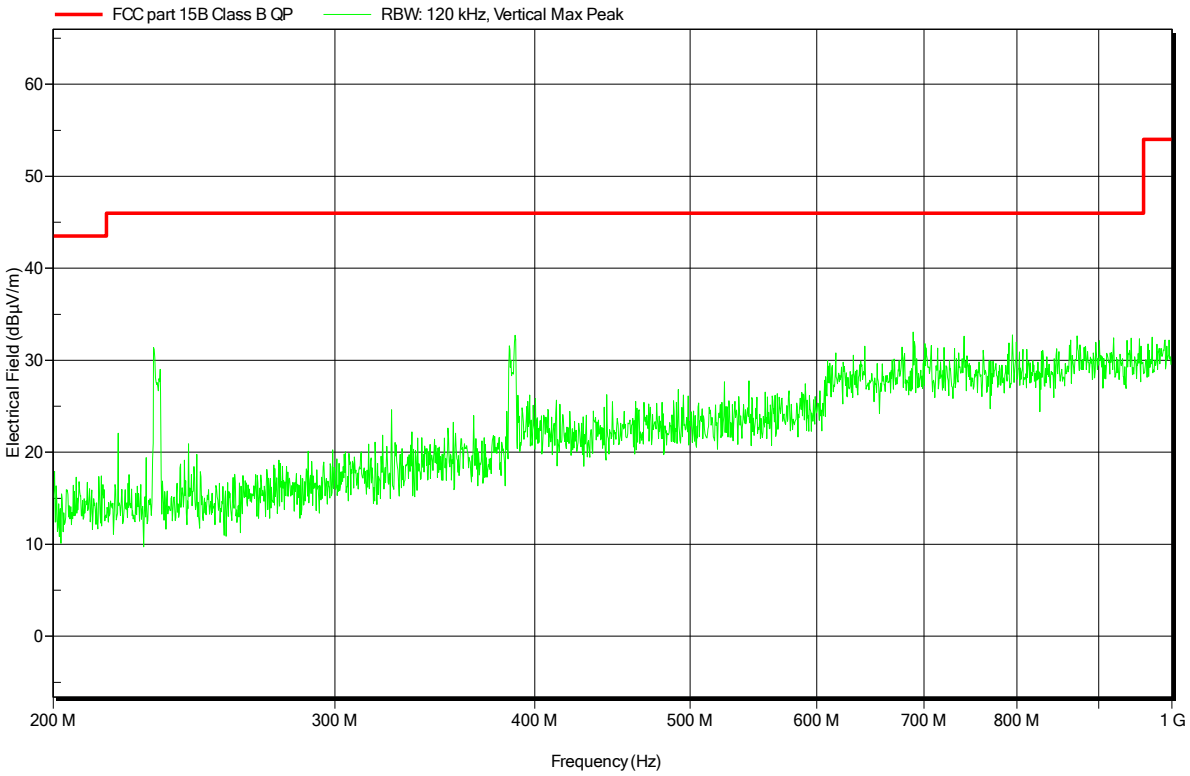

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Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3m
Mode:	1
Test Date:	2016-08-11
Note:	

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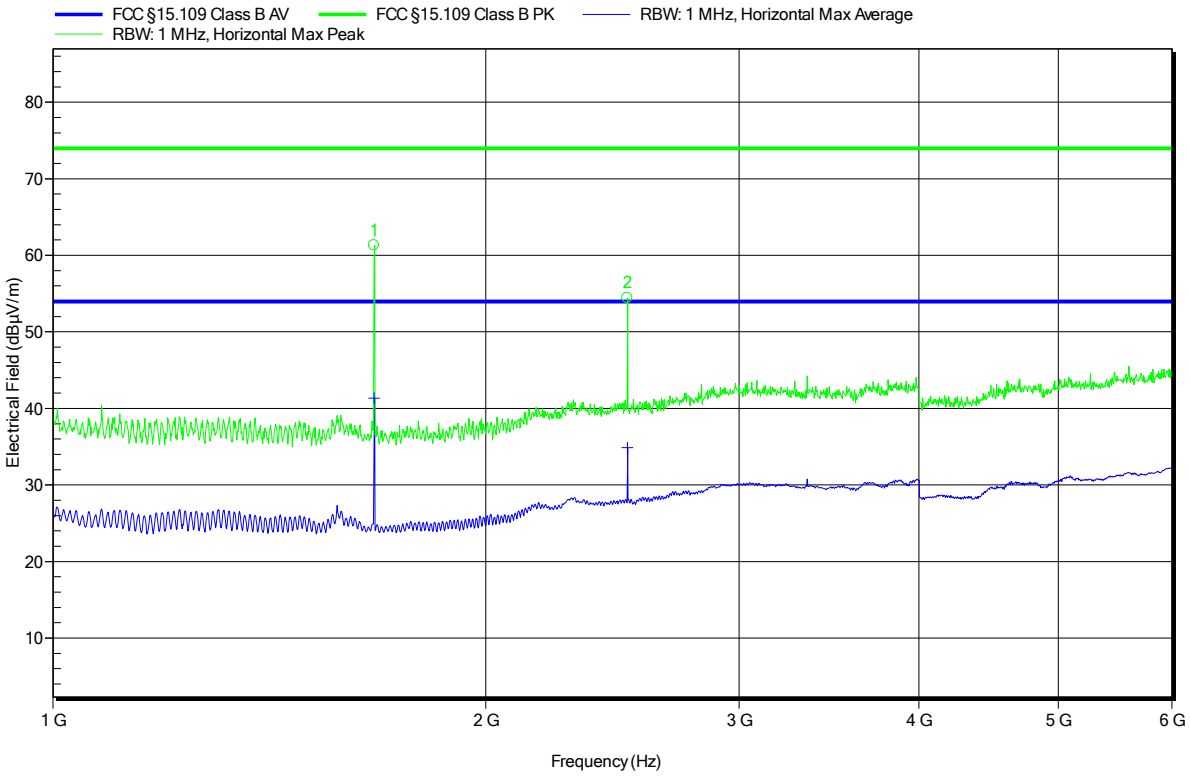

Peak Number	Frequency	Peak	Angle	Height
1	1.673 GHz	61.3 dBµV/m	180 Degree	1 m
2	2.509 GHz	54.43 dBµV/m	180 Degree	1 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	1.673 GHz	41.35 dBµV/m	53.98 dBµV/m	-12.63 dB	Pass	180 Degree	1 m
2	2.509 GHz	34.87 dBµV/m	53.98 dBµV/m	-19.11 dB	Pass	180 Degree	1 m

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

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Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3m
Mode:	1
Test Date:	2016-08-11
Note:	

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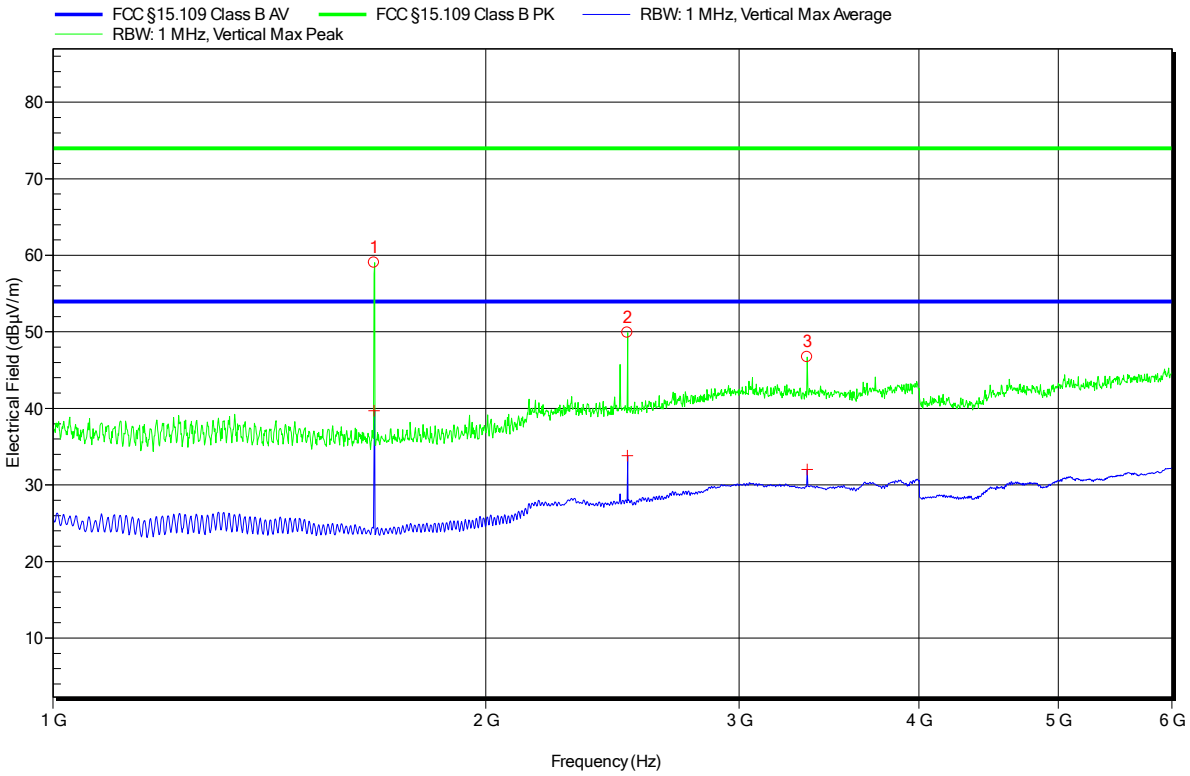

Peak Number	Frequency	Peak	Angle	Height
1	1.673 GHz	59.04 dBµV/m	180 Degree	1 m
2	2.509 GHz	49.89 dBµV/m	180 Degree	1 m
3	3.345 GHz	46.71 dBµV/m	180 Degree	1 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	1.673 GHz	39.72 dBµV/m	53.98 dBµV/m	-14.26 dB	Pass	180 Degree	1 m
2	2.509 GHz	33.81 dBµV/m	53.98 dBµV/m	-20.17 dB	Pass	180 Degree	1 m
3	3.345 GHz	32.02 dBµV/m	53.98 dBµV/m	-21.96 dB	Pass	180 Degree	1 m

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

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Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23,4°C, Unom: 120V AC
Antenna:	ETS-Lindgren 3117, Horizontal
Measurement distance:	3 m
Mode:	1.
Test Date:	2016-08-19
Note:	

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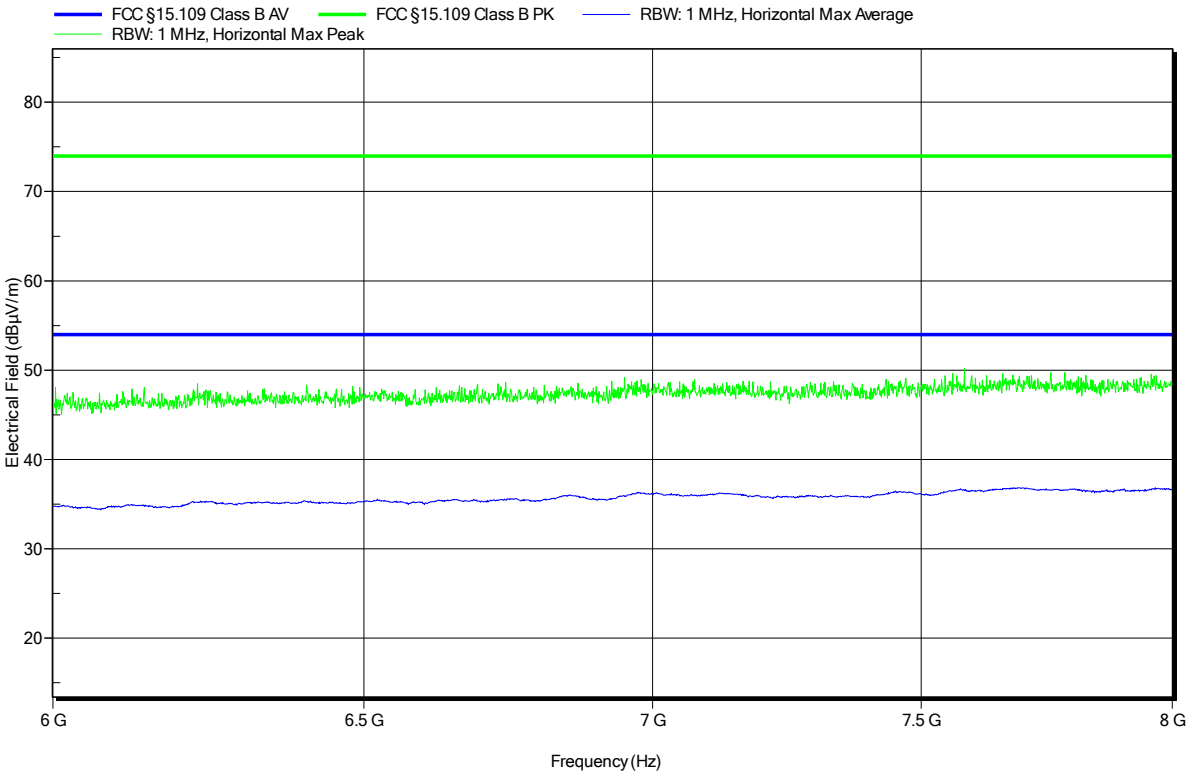

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Antenna:	ETS-Lindgren 3117, Vertical
Measurement distance:	3 m
Mode:	1.
Test Date:	2016-08-19
Note:	

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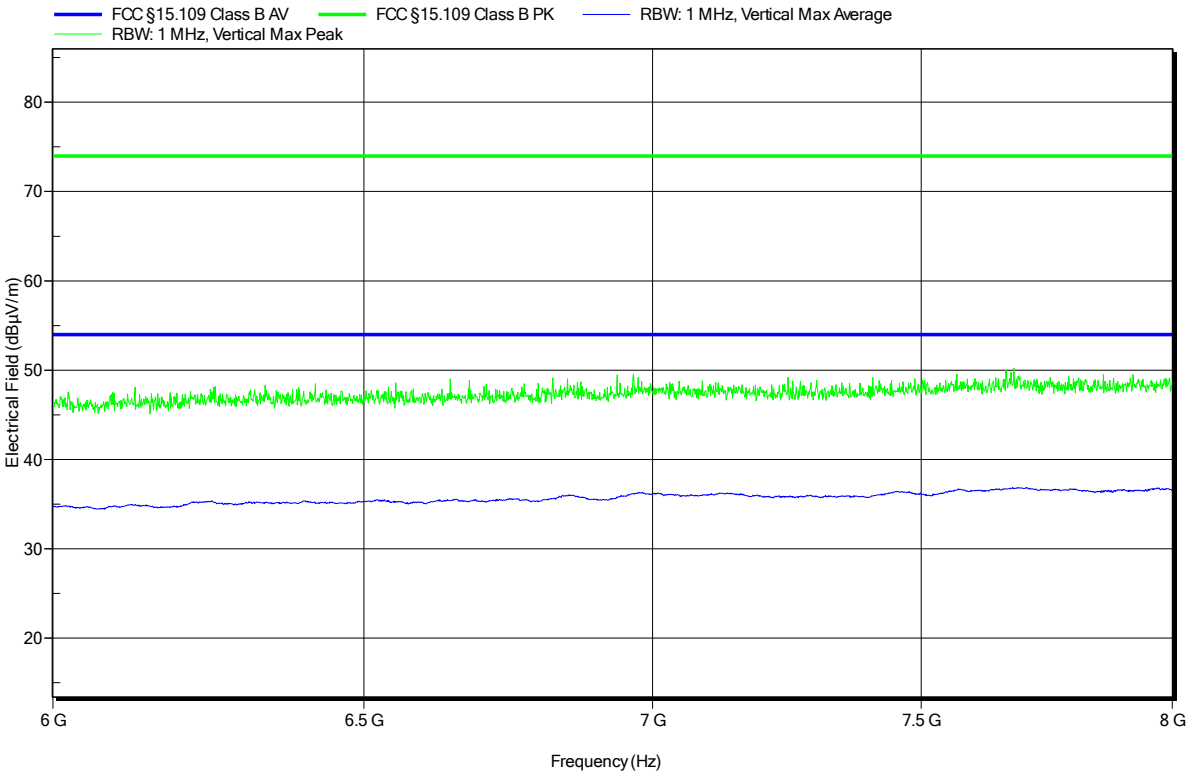

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Mode:	1.
Test Date:	2016-08-19
Note:	

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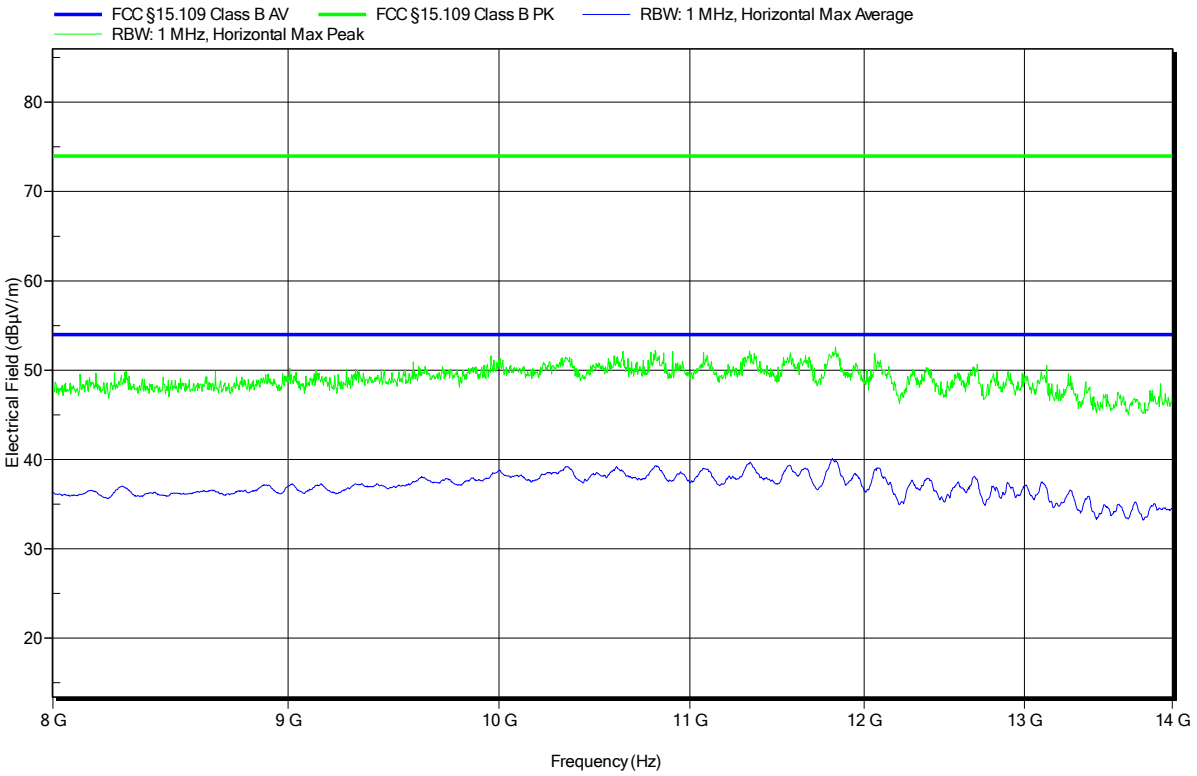

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Mode:	1.
Test Date:	2016-08-19
Note:	

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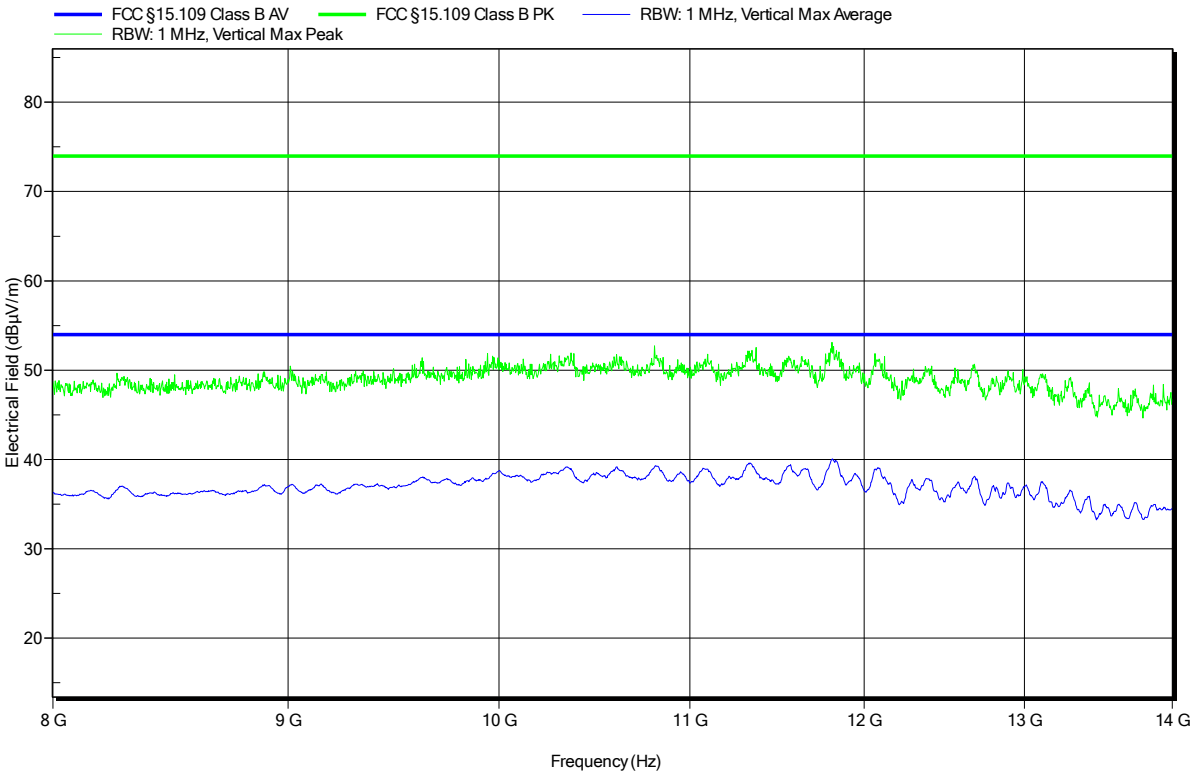

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Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3m
Mode:	2
Test Date:	2016-08-11
Note:	

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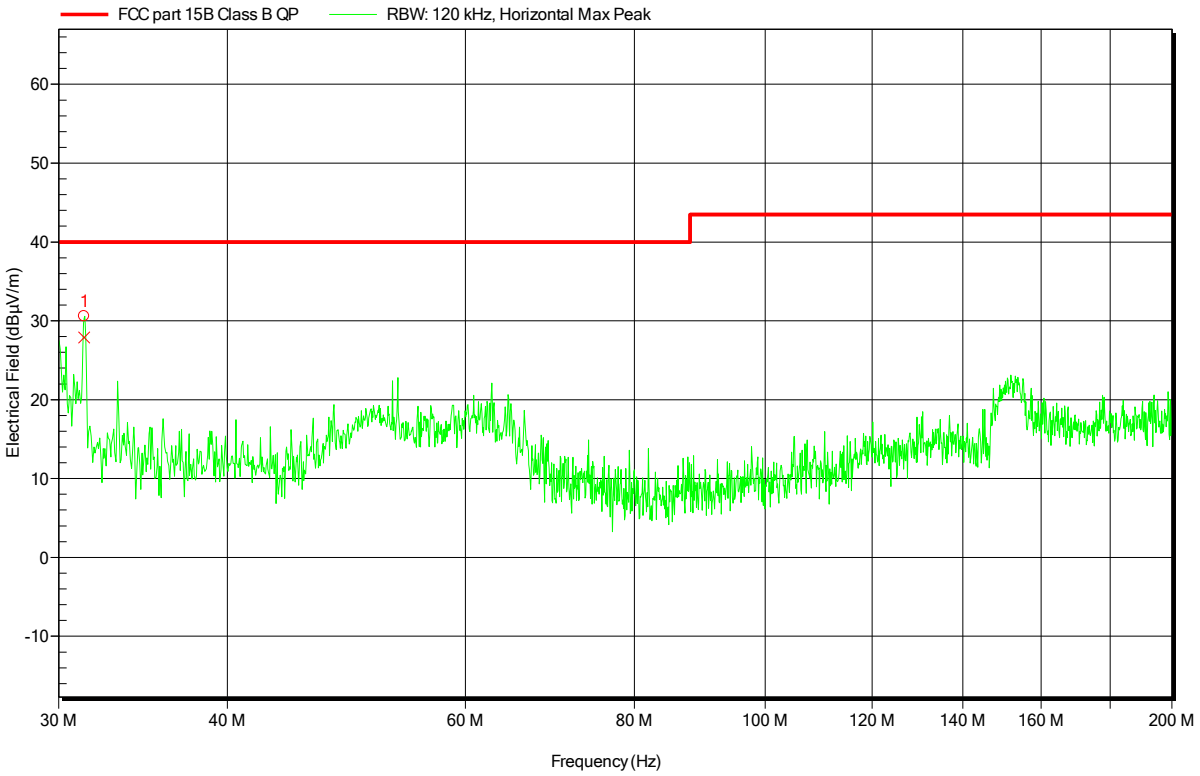

Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	31.338 MHz	27.9 dBµV/m	40 dBµV/m	-12.1 dB	Pass	332 Degree	1.92 m

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Mode:	2
Test Date:	2016-08-11
Note:	

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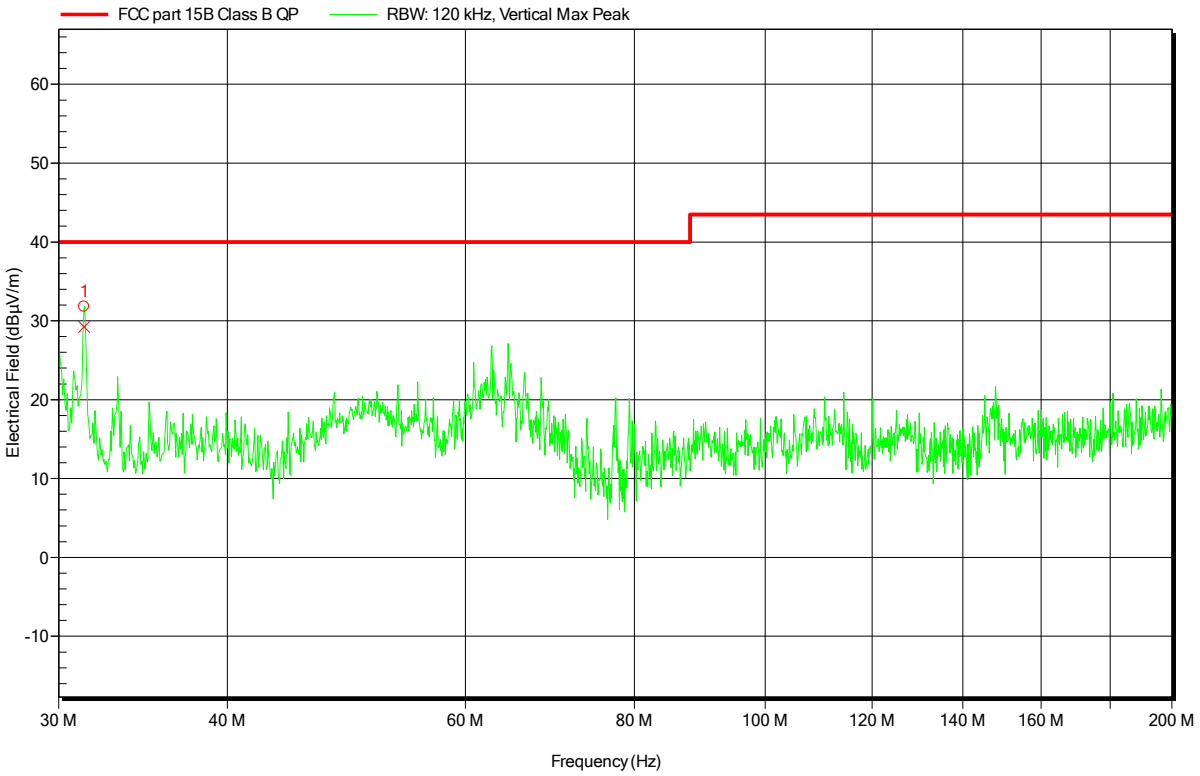

Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	31.338 MHz	29.24 dBµV/m	40 dBµV/m	-10.76 dB	Pass	100 Degree	1.9 m

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3m
Mode:	2
Test Date:	2016-08-11
Note:	

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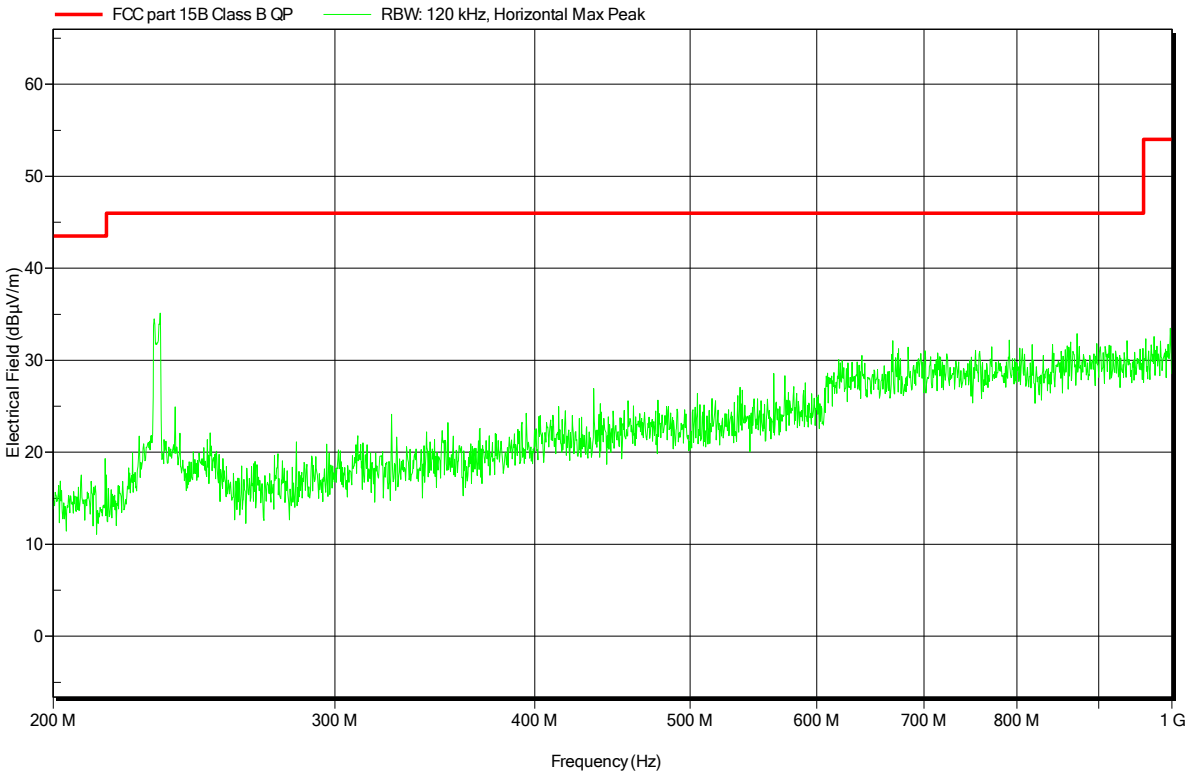

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3m
Mode:	2
Test Date:	2016-08-11
Note:	

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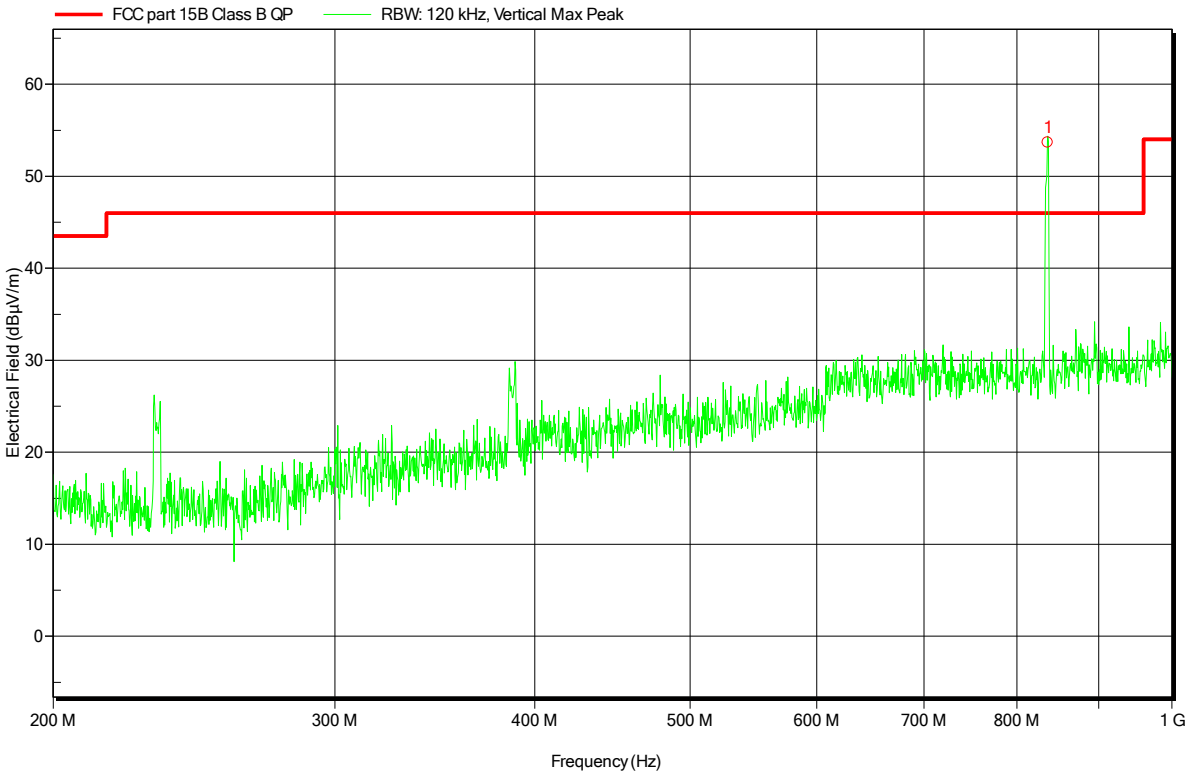

Peak Number	Frequency
1	836.42 MHz Carrier frequency

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3m
Mode:	2
Test Date:	2016-08-11
Note:	

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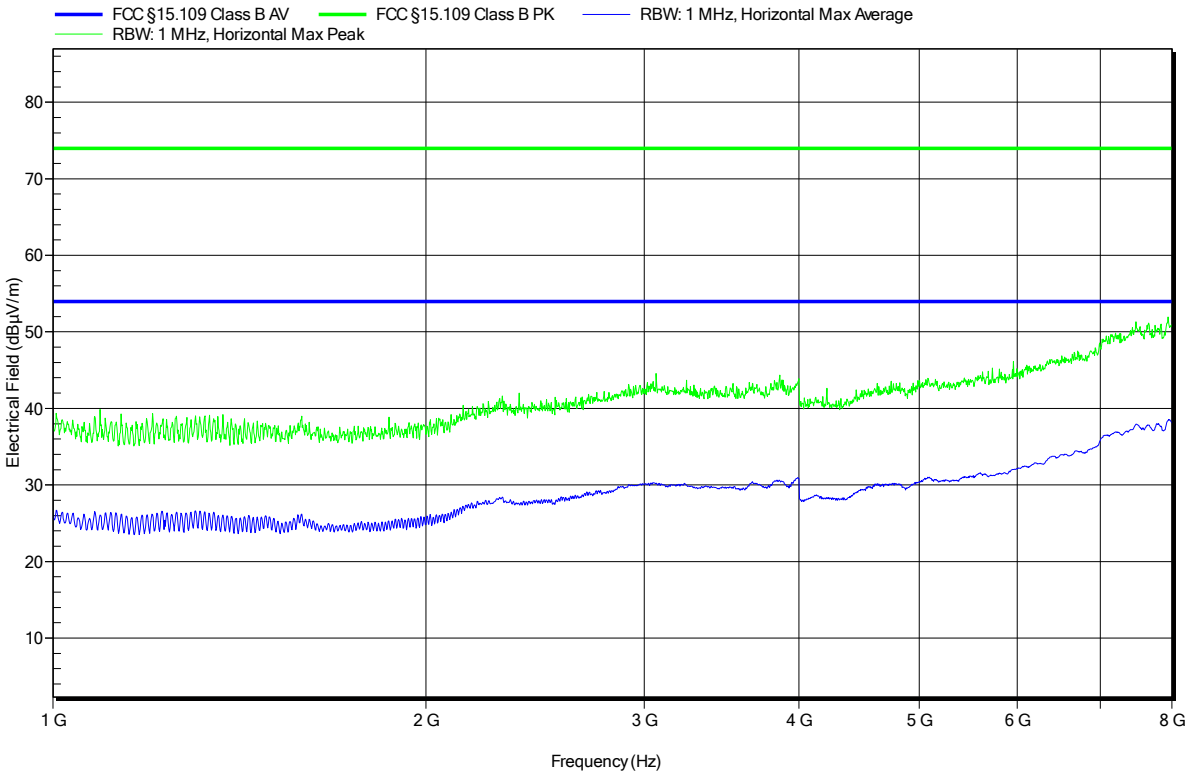

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3m
Mode:	2
Test Date:	2016-08-11
Note:	

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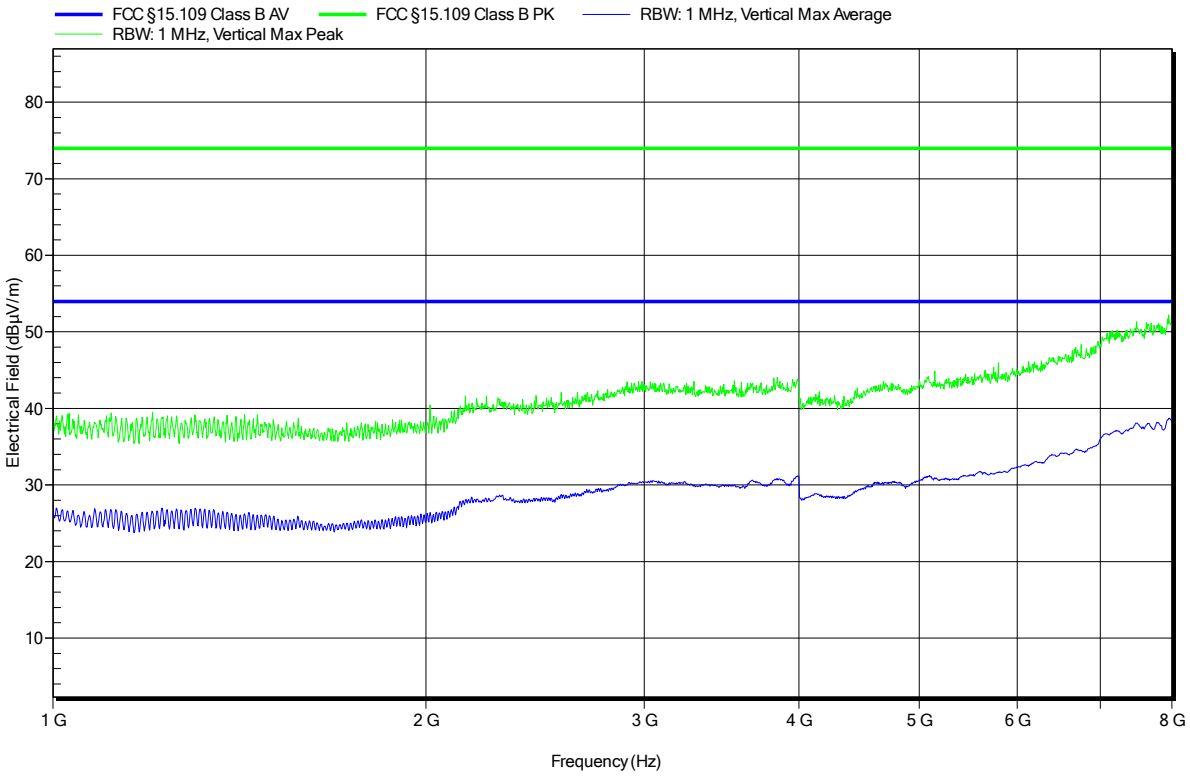

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23,4°C, Unom: 230V AC
Antenna:	ETS-Lindgren 3117, Horizontal
Measurement distance:	3 m
Mode:	2
Test Date:	2016-08-19
Note:	

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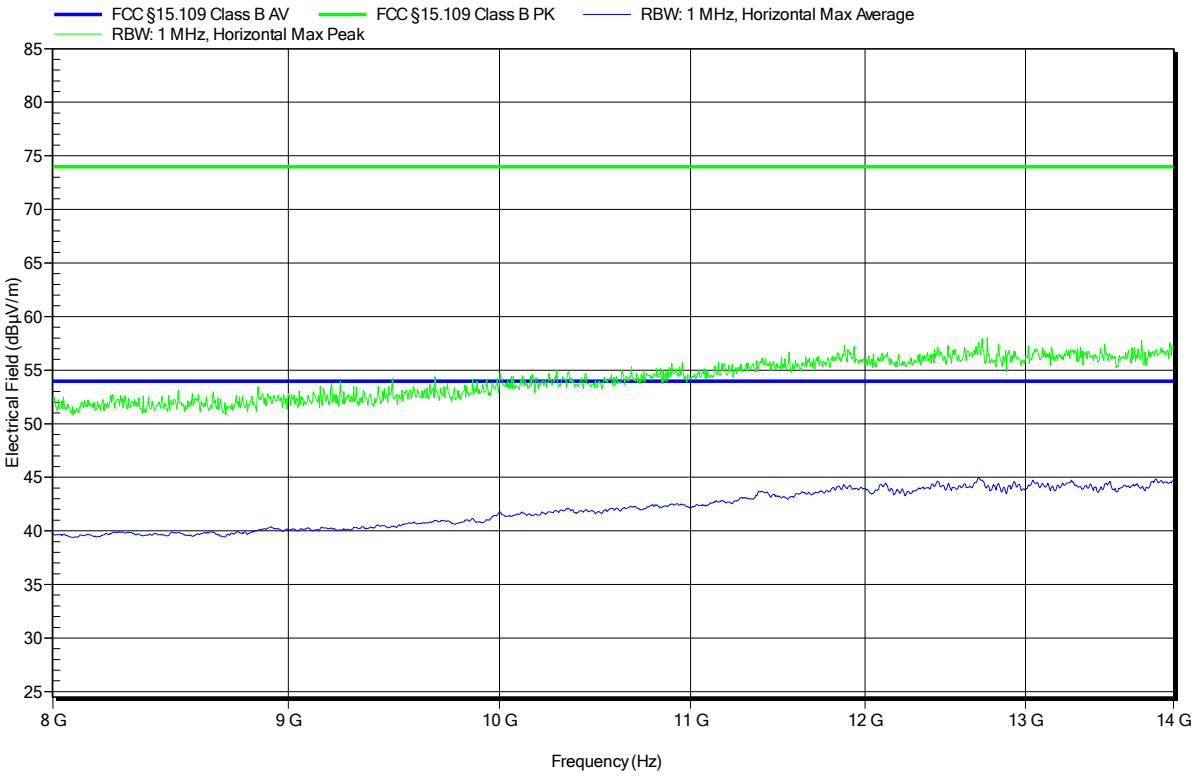

Spurious emissions under normal conditions according to FCC 47 CFR 15.109 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23,4°C, Unom: 120V AC
Antenna:	ETS-Lindgren 3117, Vertical
Measurement distance:	3 m
Mode:	2
Test Date:	2016-08-19
Note:	

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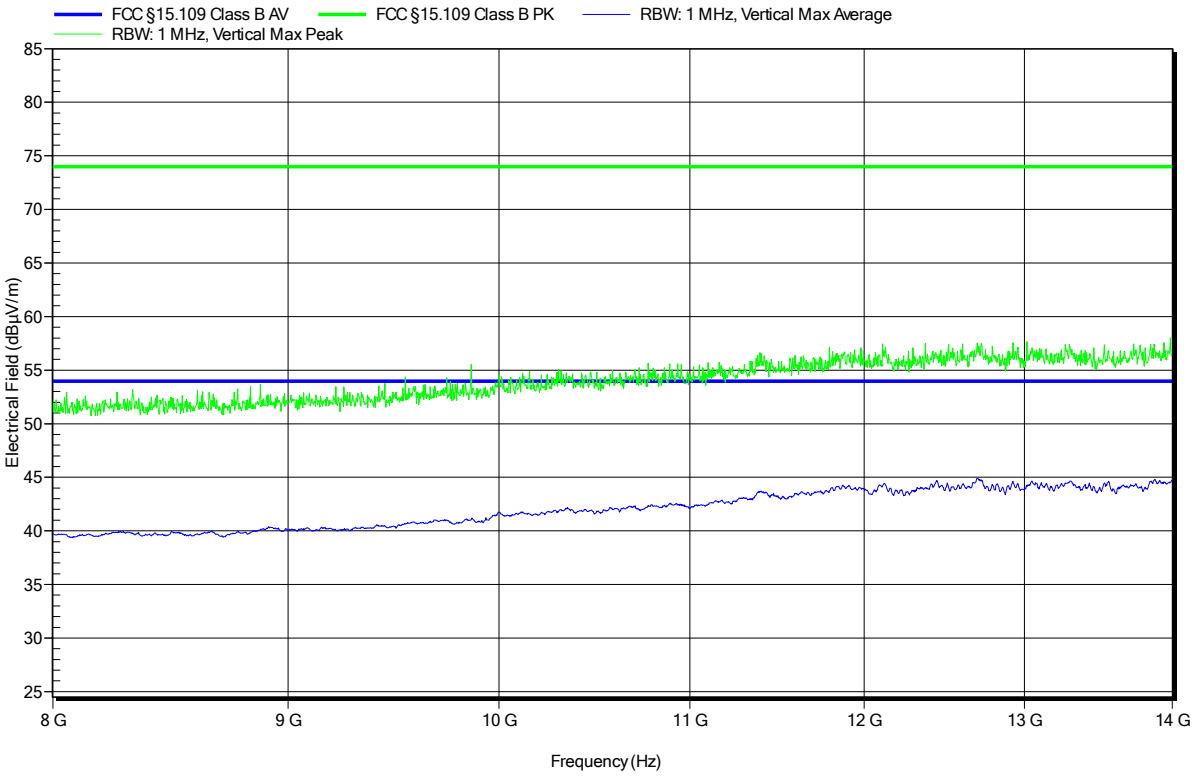

3.2 Test Conditions and Results – AC power line conducted emissions

Conducted emissions acc. FCC 47 CFR 15.107 / ICES-003		**Verdict: PASS**
Laboratory Parameters:	Required prior to the test	During the test
Ambient Temperature	15 to 35 °C	23.4°C
Relative Humidity	30 to 60 %	53%
Test according referenced standards	Reference Method	
	ANSI C63.4	
Fully configured sample scanned over the following frequency range	Frequency range	
	0.15 MHz to 30 MHz	
Sample is tested with respect to the requirements of the equipment class	Equipment class	
	Class B	
Points of Application	Application Interface	
AC Mains	LISN	
Operating mode	1/2	
Configuration	1	

Limits and results Class B

Frequency [MHz]	Quasi-Peak [dBµV]	Result	Average [dBµV]	Result
0.15 to 5	66 to 56*	PASS	56 to 46*	PASS
0.5 to 5	56	PASS	46	PASS
5 to 30	60	PASS	50	PASS

Comments:
* 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.

EMI voltage test in the ac-mains according to FCC 47 CFR 15.107 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
LISN:	ESH2-Z5 L
Mode:	1
Test Date:	2016-08-12
Note:	

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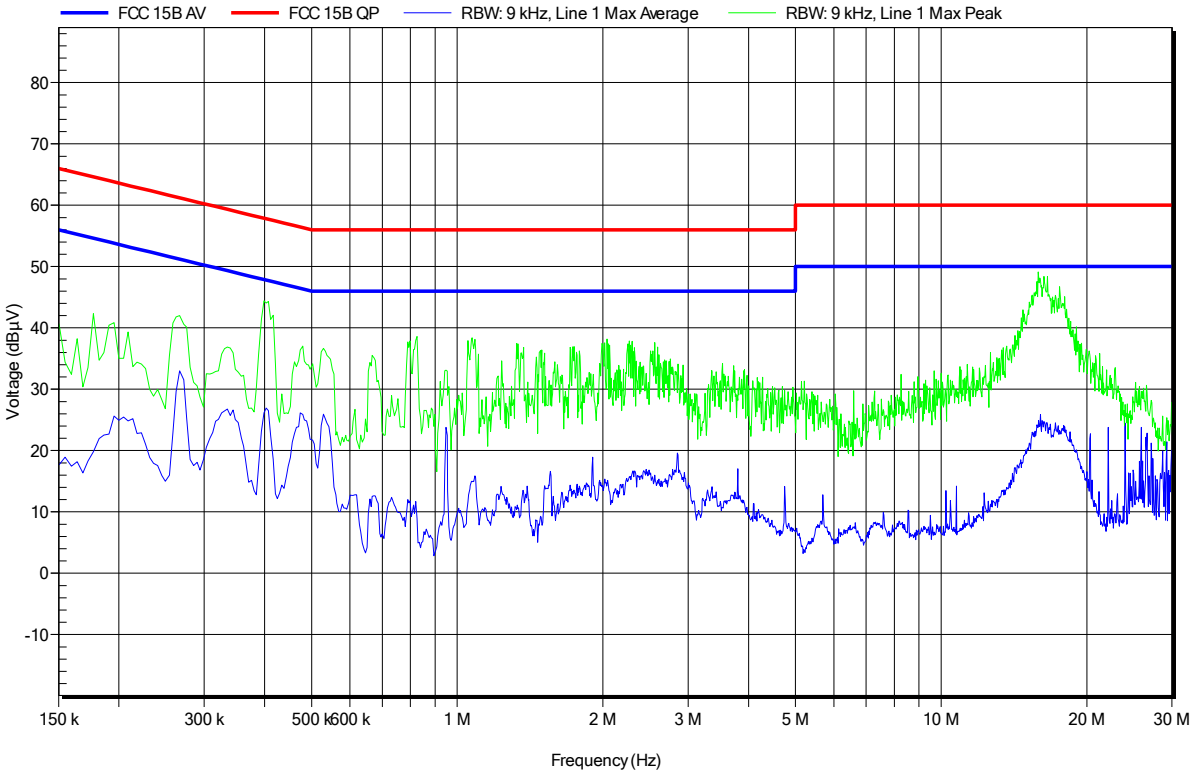

EMI voltage test in the ac-mains according to FCC 47 CFR 15.107 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
LISN:	ESH2-Z5 N
Mode:	1
Test Date:	2016-08-12
Note:	

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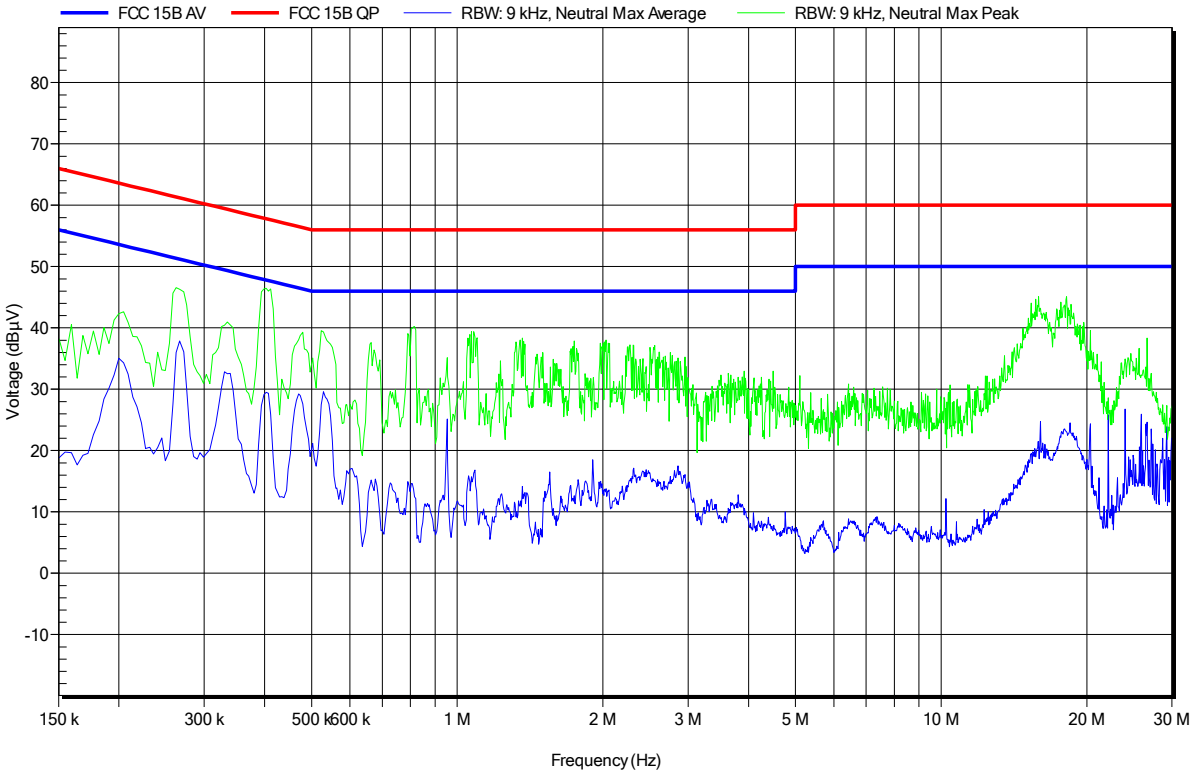

EMI voltage test in the ac-mains according to FCC 47 CFR 15.107 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
LISN:	ESH2-Z5 L
Mode:	2
Test Date:	2016-08-12
Note:	

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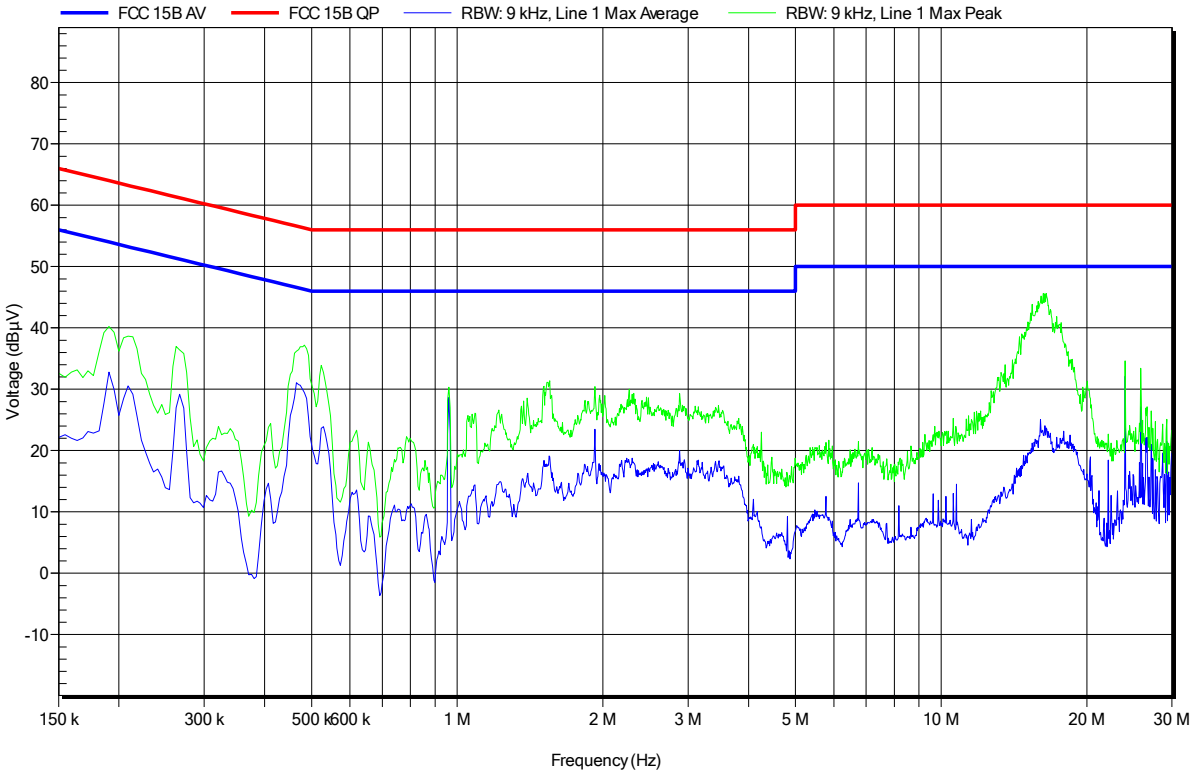

EMI voltage test in the ac-mains according to FCC 47 CFR 15.107 / ICES-003

Project number: G0M-1603-5477

Applicant:	Owlet GmbH
EUT Name:	Luminaire Controller
Model:	LUCO P7 CM
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Yu
Test Conditions:	Tnom: 23.4°C, Unom: 120V AC
LISN:	ESH2-Z5 N
Mode:	2
Test Date:	2016-08-12
Note:	

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