

EMC TEST REPORT

FCC 47 CFR Part 15B Industry Canada ICES-003

Electromagnetic compatibility - Unintentional radiators

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



P	ossil	ale	test	case	verd	icts.
	03311	316	LUGE	Casc	VCIG	ICLO.

- 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: Yu Yu

Tested by (+ signature).....: 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.

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

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	5
1.1	Photos – Equipment external	7
1.2	Photos – Equipment internal	g
1.3	Photos – Test setup	12
1.4	Supporting Equipment Used During Testing	14
1.5	Input / Output Ports	14
1.6	Operating Modes and Configurations	15
1.7	Test Equipment Used During Testing	16
1.8	Sample emission level calculation	17
2	RESULT SUMMARY	18
3	TEST CONDITIONS AND RESULTS	19
3.1	Test Conditions and Results – Radiated emissions	19
3.2	Test Conditions and Results – AC power line conducted emissions	39



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			
	Туре	Five-Band 3G (HSPA) module		
	Model	EHS8		
Radio madula	Manufacturer	Gemalto M2M GmbH		
Radio module	FCC-ID	QIPEHS8		
	IC	7803A-EHS8		
	IMEI	35704406.001757.8		
	Туре	XBee Singular Module		
	Model	S2D		
	Manufacturer	Digi International Inc.		
Radio module	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			

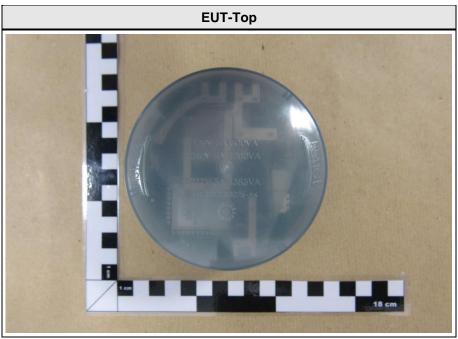


Functional Earth None

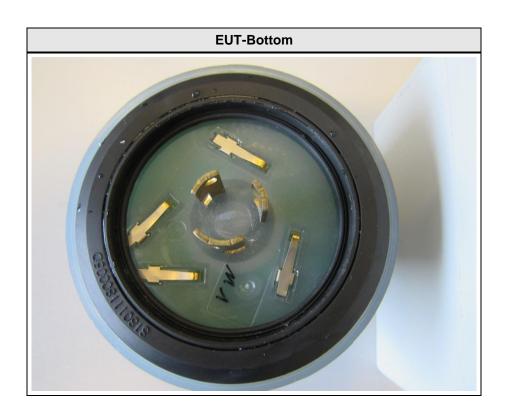


1.1 Photos – Equipment external



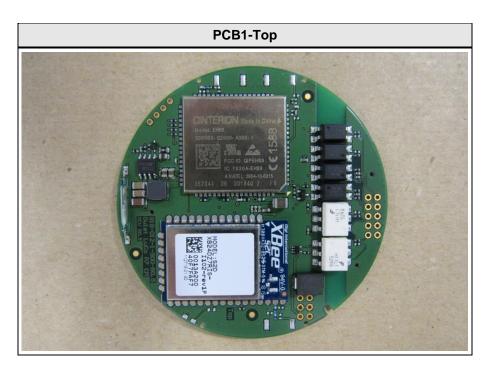


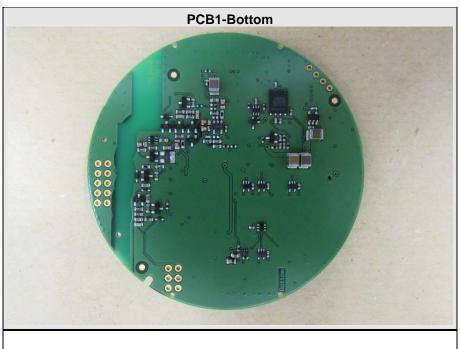


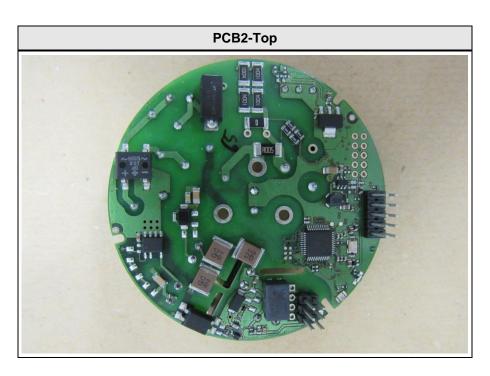


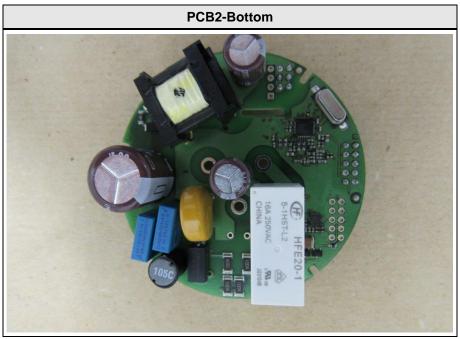


1.2 Photos – Equipment internal

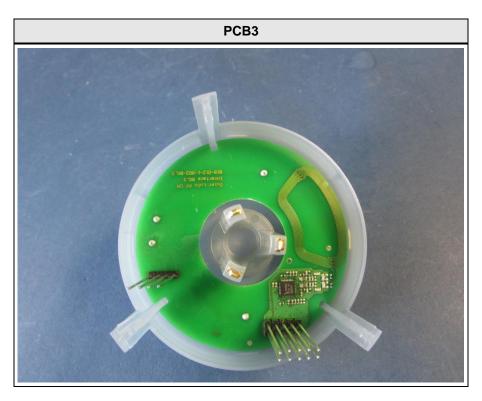


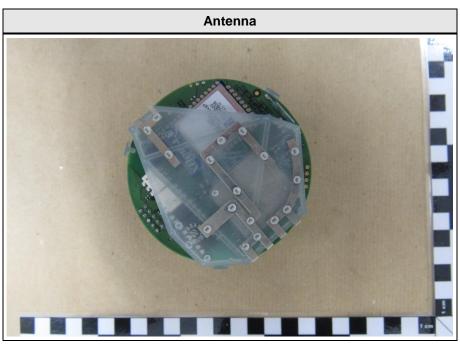






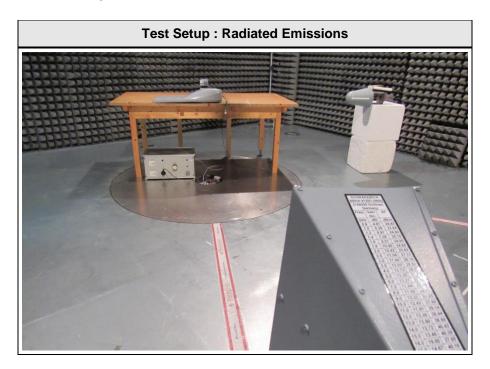








1.3 Photos - Test setup





Product Service





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 ($dB\mu V$) + A.F. (dB) = Net field strength ($dB\mu V/m$)

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 = 1881		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:	,	1				



3 Test Conditions and Results

3.1 Test Conditions and Results - Radiated emissions

Radiated emission	ons acc. FCC 47 C	FR 15.109	/ ICES-003		Verdict:	PASS			
Laboratory Parameters:		Requir	ed 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 ran	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							
	L	imits and	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			
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.
 - o 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-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

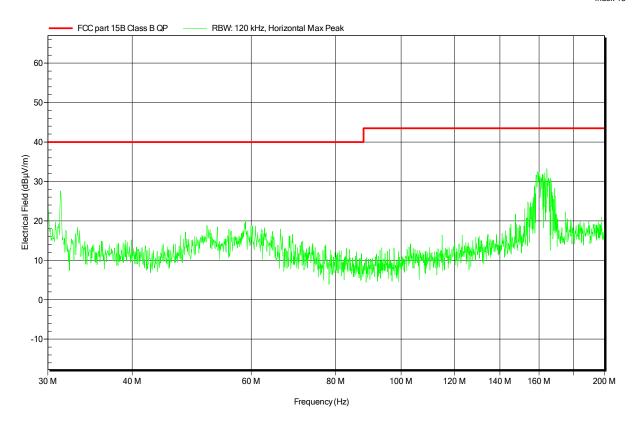
Operator: Mr. Yu

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:





Project number: G0M-1603-5477

Owlet GmbH Applicant:

EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

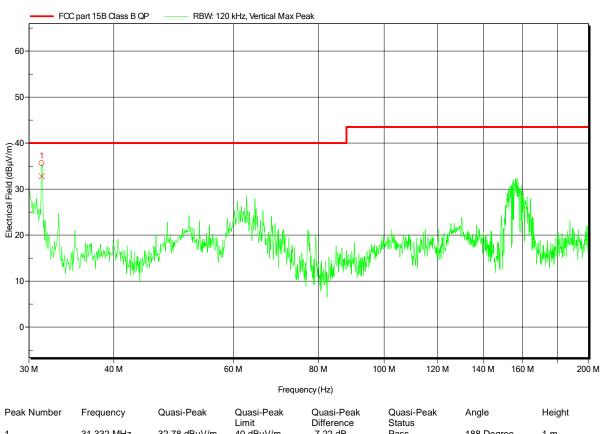
Operator: Mr. Yu

Tnom: 23.4°C, Unom: 120V AC Test Conditions: Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3m Mode:

2016-08-11 Test Date:

Note:





Project number: G0M-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

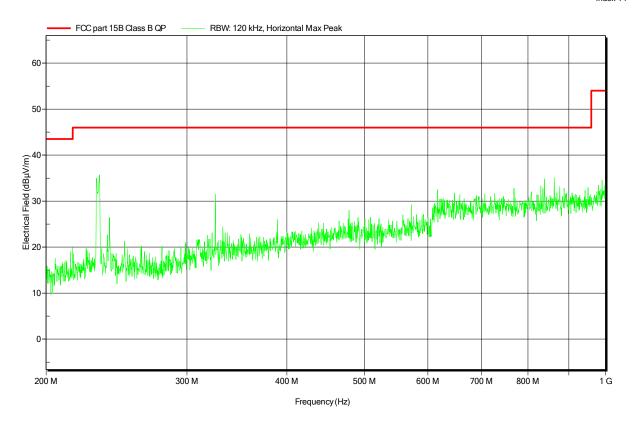
Operator: Mr. Yu

Test Conditions: Tnom: 23.4°C, Unom: 120V AC Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3m Mode: 1

Test Date: 2016-08-11

Note:





Project number: G0M-1603-5477

Applicant: Owlet GmbH

EUT Name: Luminaire Controller Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

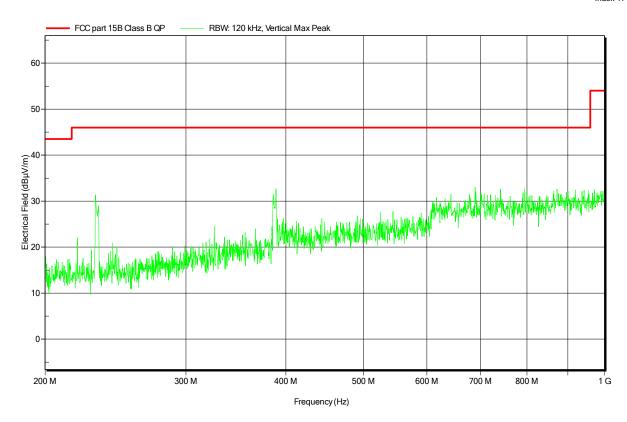
Operator: Mr. Yu

Test Conditions: Tnom: 23.4°C, Unom: 120V AC Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3m Mode: 1

Test Date: 2016-08-11

Note:





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

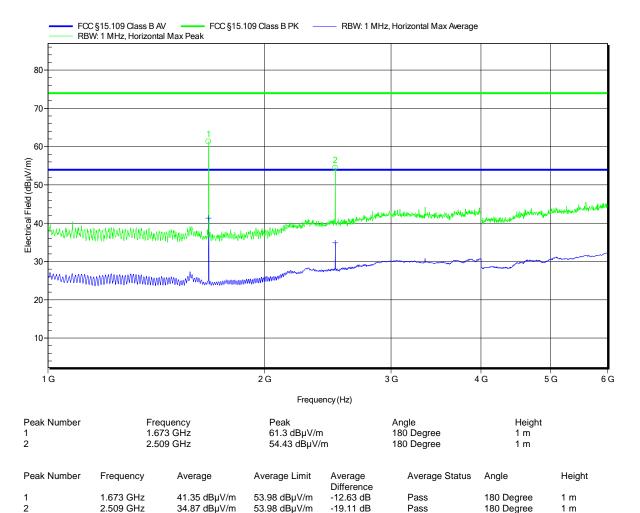
Test Conditions: Tnom: 23.4°C, Unom: 120V AC

Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3m Mode: 1

Test Date: 2016-08-11

Note:





Project number: G0M-1603-5477

Owlet GmbH Applicant: **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 Schwarzbeck BBHA 9120D, Vertical Antenna:

Measurement distance: 3m Mode:

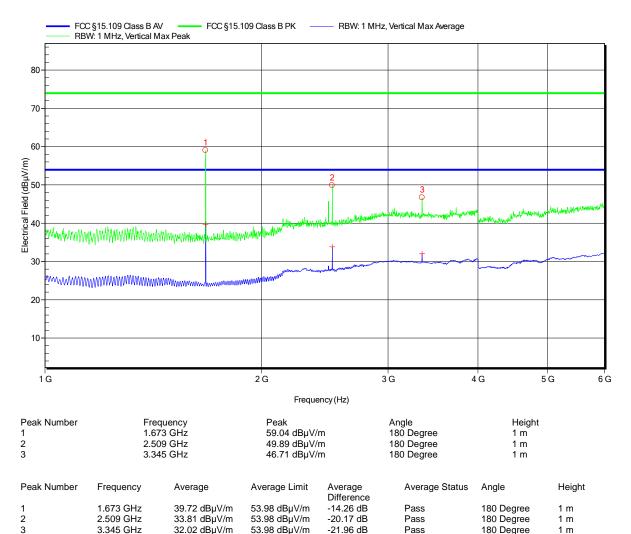
3.345 GHz

 $32.02\;dB\mu V/m$

Test Date: 2016-08-11

Note:

Index 10



-21.96 dB

Pass

180 Degree

53.98 dBµV/m

1 m



Project number: G0M-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller
Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

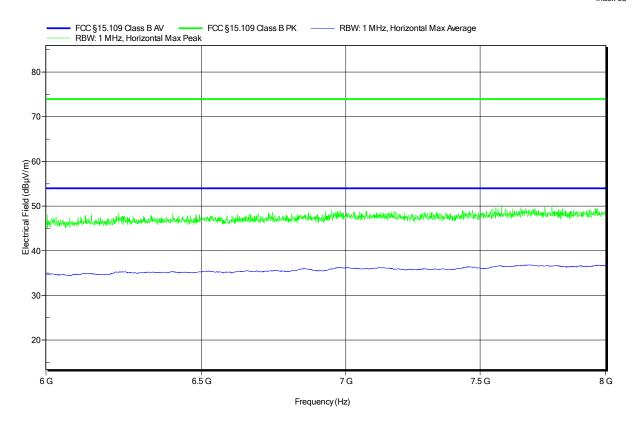
Operator: Mr. Yu

Test Conditions: Tnom: 23,4°C, Unom: 120V AC Antenna: ETS-Lindgren 3117, Horizontal

Measurement distance: 3 m Mode: 1.

Test Date: 2016-08-19

Note:





Project number: G0M-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller
Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

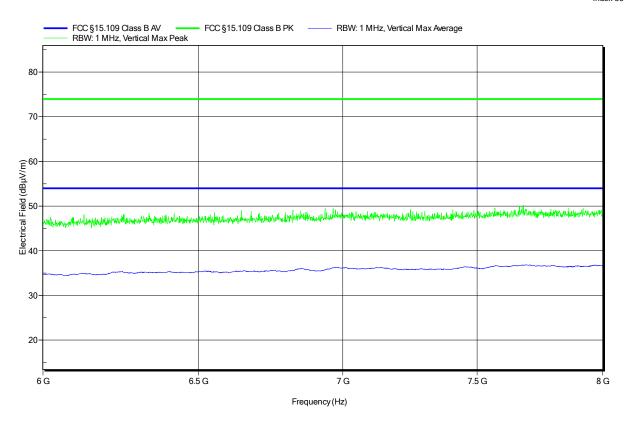
Operator: Mr. Yu

Test Conditions: Tnom: 23.4°C, Unom: 120V AC Antenna: ETS-Lindgren 3117, Vertical

Measurement distance: 3 m Mode: 1.

Test Date: 2016-08-19

Note:





Project number: G0M-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

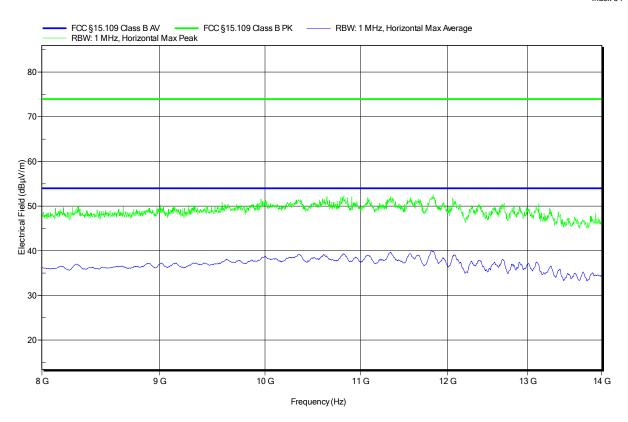
Operator: Mr. Yu

Test Conditions: Tnom: 23,4°C, Unom: 120V AC Antenna: ETS-Lindgren 3117, Horizontal

Measurement distance: 3 m Mode: 1.

Test Date: 2016-08-19

Note:





Project number: G0M-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller
Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

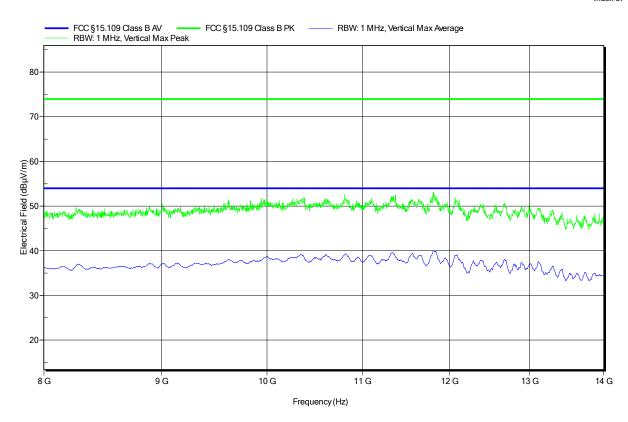
Operator: Mr. Yu

Test Conditions: Tnom: 23,4°C, Unom: 120V AC Antenna: ETS-Lindgren 3117, Vertical

Measurement distance: 3 m Mode: 1.

Test Date: 2016-08-19

Note:





Project number: G0M-1603-5477

Applicant: Owlet GmbH EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

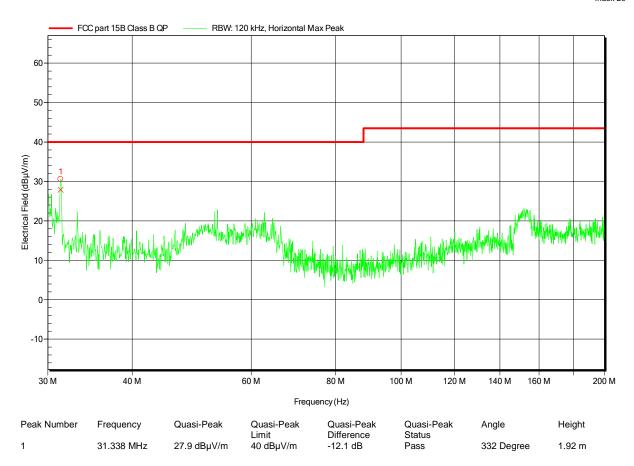
Operator: Mr. Yu

Test Conditions: Tnom: 23.4°C, Unom: 120V AC Antenna: Rohde & Schwarz HK 116, Horizontal

Measurement distance: 3m Mode: 2

Test Date: 2016-08-11

Note:





Project number: G0M-1603-5477

Owlet GmbH Applicant: **EUT Name:** Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

Operator: Mr. Yu

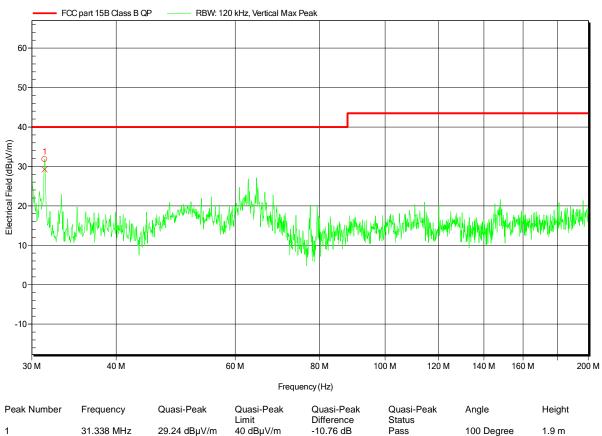
Tnom: 23.4°C, Unom: 120V AC **Test Conditions:** Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3m Mode: 2

2016-08-11 Test Date:

Note:

Index 21



40 dBµV/m $29.24 \; dB\mu V/m$ 100 Degree



Project number: G0M-1603-5477

Applicant: Owlet GmbH EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

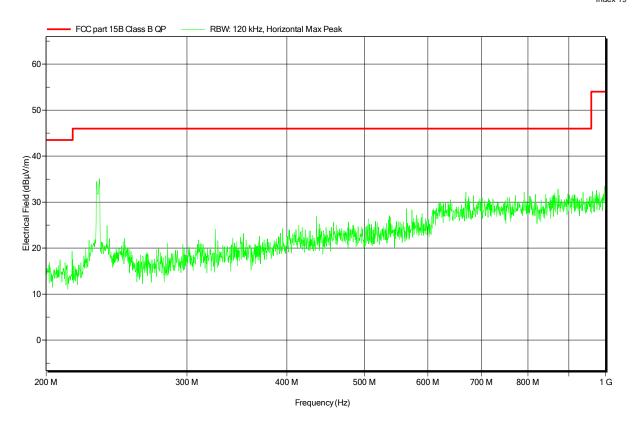
Operator: Mr. Yu

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:





Project number: G0M-1603-5477

Owlet GmbH Applicant: **EUT Name:** Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

Operator: Mr. Yu

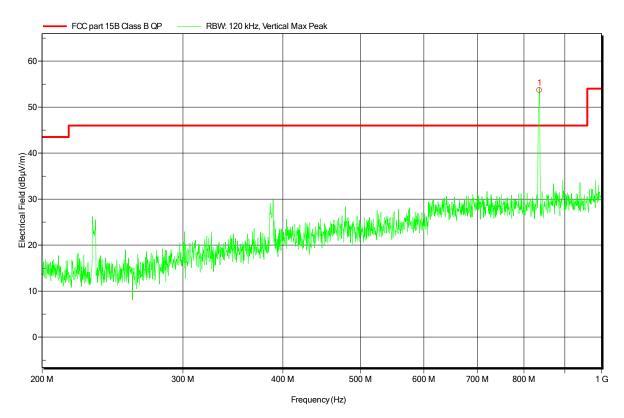
Tnom: 23.4°C, Unom: 120V AC Test Conditions: Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3m Mode: 2

2016-08-11 Test Date:

Note:

Index 18



Peak Number

Frequency 836.42 MHz Carrier frequency



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

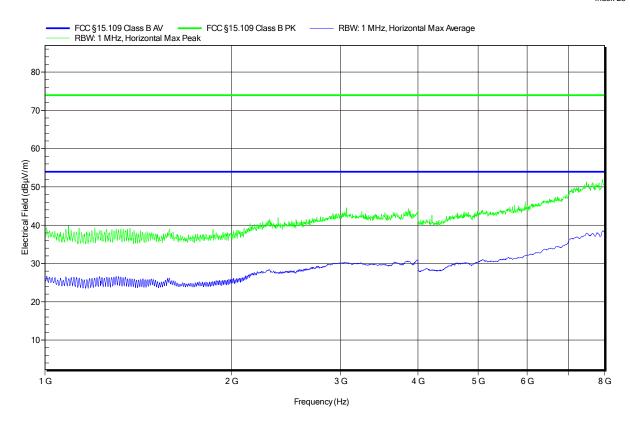
Test Conditions: Tnom: 23.4°C, Unom: 120V AC

Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3m Mode: 2

Test Date: 2016-08-11

Note:





Project number: G0M-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

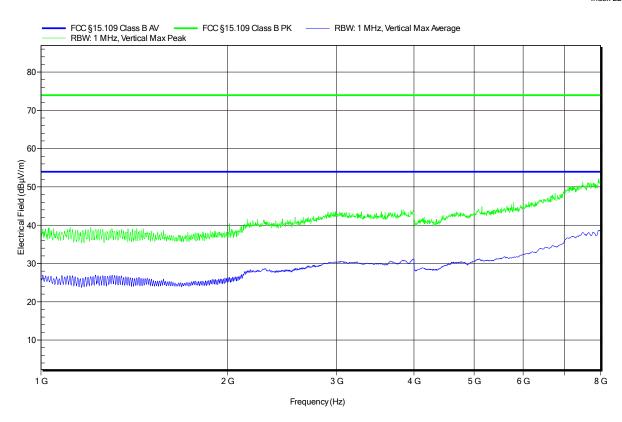
Operator: Mr. Yu

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:





Project number: G0M-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

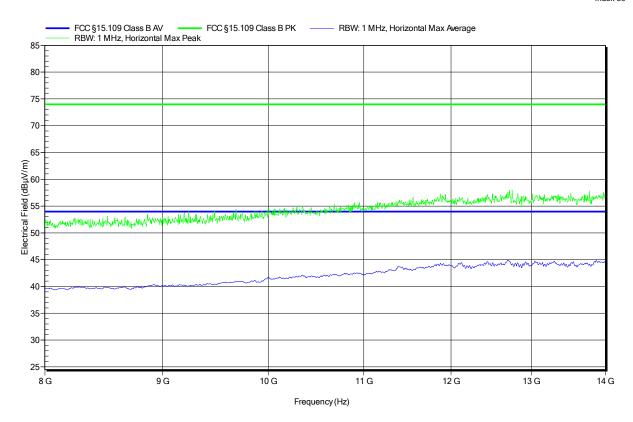
Operator: Mr. Yu

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:





Project number: G0M-1603-5477

Applicant: Owlet GmbH
EUT Name: Luminaire Controller

Model: LUCO P7 CM

Test Site: Eurofins Product Service GmbH

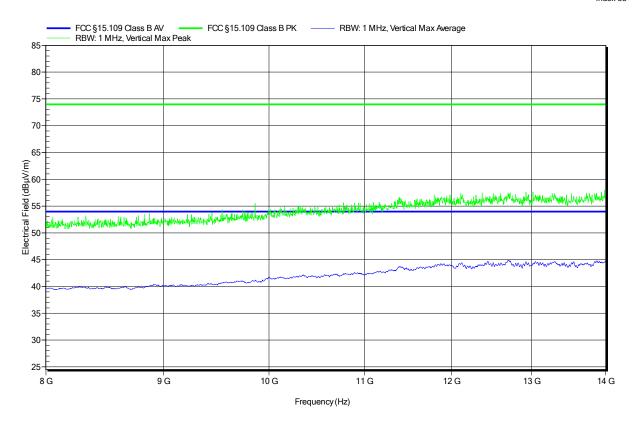
Operator: Mr. Yu

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:





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:		Req	uired prior to the t	est	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					
	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.



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

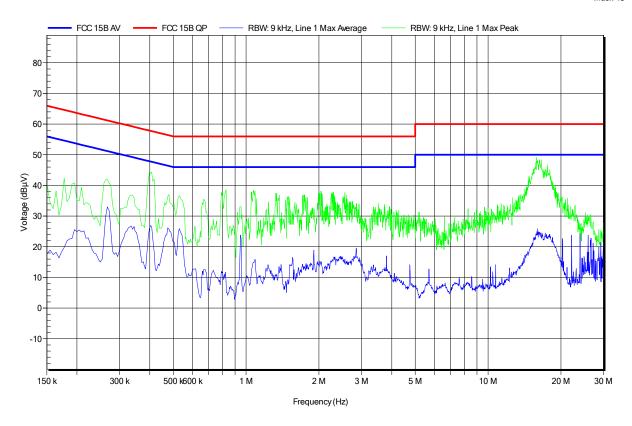
Test Conditions: Tnom: 23.4°C, Unom: 120V AC

LISN: ESH2-Z5 L

Mode:

Test Date: 2016-08-12

Note:





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

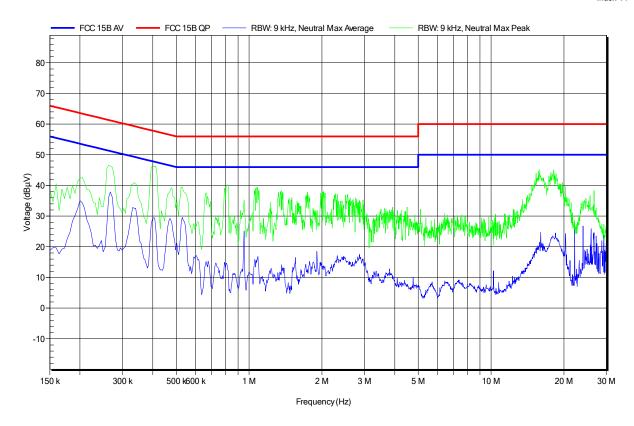
Test Conditions: Tnom: 23.4°C, Unom: 120V AC

LISN: ESH2-Z5 N

Mode: 1

Test Date: 2016-08-12

Note:





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

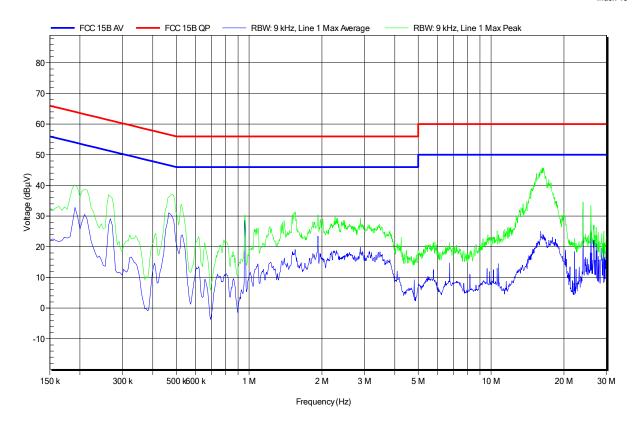
Test Conditions: Tnom: 23.4°C, Unom: 120V AC

LISN: ESH2-Z5 L

Mode: 2

Test Date: 2016-08-12

Note:





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:

