

15.247(d) Field Strength of Spurious Emissions

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/22/2013
 Test Type: **Radiated Scan** Time: 15:41:25
 Equipment: **Household Air Mattress Inflator** Sequence#: 87
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 9kHz to 30 MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz
 Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi
 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.
 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.
Low Channel

Ext Attn: 0 dB

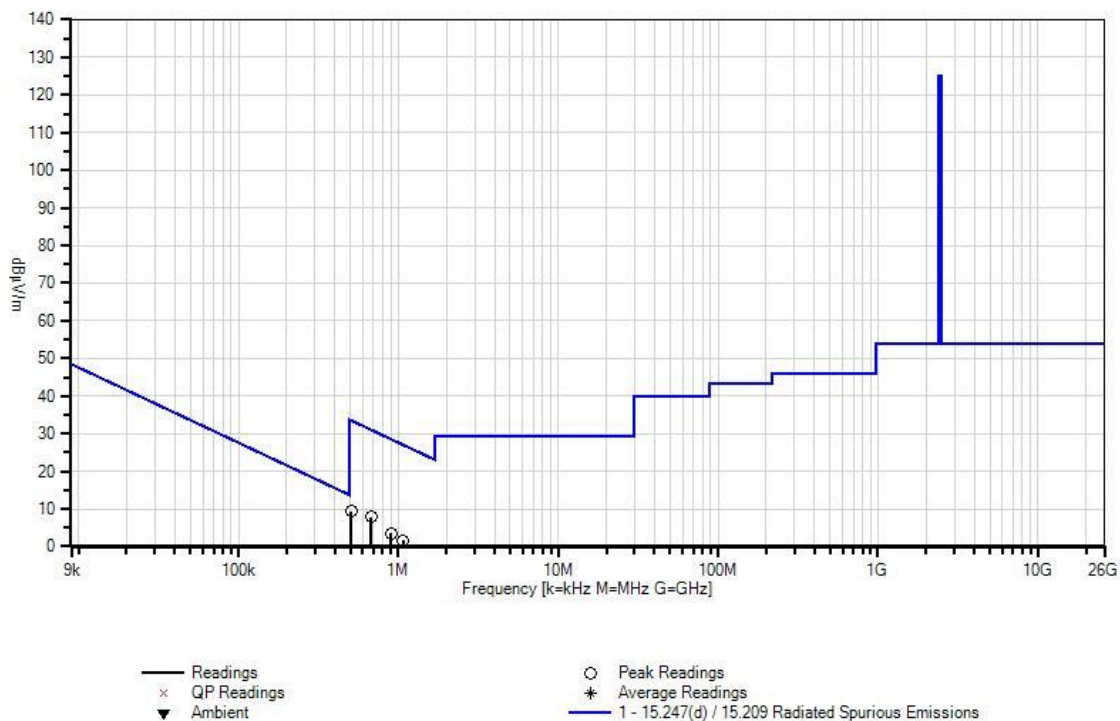
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	674.766k	37.8	+9.9	+0.1	+0.0		-40.0	7.8	31.0	-23.2	Perpe
2	509.601k	39.5	+9.8	+0.1	+0.0		-40.0	9.4	33.5	-24.1	Paral
3	902.653k	33.8	+9.5	+0.1	+0.0		-40.0	3.4	28.5	-25.1	Perpe
4	896.381k	33.9	+9.5	+0.1	+0.0		-40.0	3.5	28.6	-25.1	Paral
5	1.076M	31.8	+9.7	+0.1	+0.0		-40.0	1.6	27.0	-25.4	Perpe
6	1.467M	28.8	+9.8	+0.1	+0.0		-40.0	-1.3	24.3	-25.6	Paral

CKC Laboratories, Inc Date: 8/22/2013 Time: 15:41:25 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 87



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/22/2013
 Test Type: **Radiated Scan** Time: 11:43:15
 Equipment: **Household Air Mattress Inflator** Sequence#: 72
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamplifier	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 30MHz to 1000MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.
Low Channel

Ext Attn: 0 dB

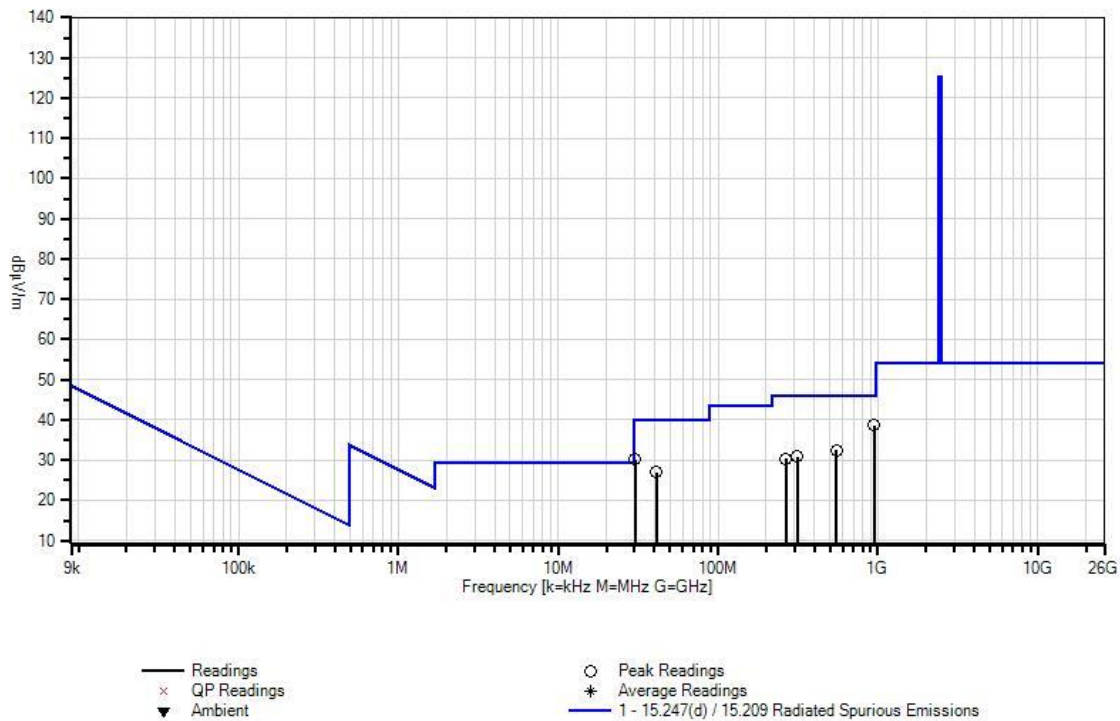
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	944.401M	36.8	-27.1 +0.9	+23.5	+3.5	+1.0	+0.0	38.6	46.0	-7.4	Horiz
2	30.200M	38.1	-27.1 +0.1	+18.3	+0.5	+0.2	+0.0	30.1	40.0	-9.9	Vert
3	41.180M	40.2	-27.0 +0.2	+12.8	+0.6	+0.1	+0.0	26.9	40.0	-13.1	Vert
4	546.398M	36.5	-26.9 +0.7	+19.1	+2.5	+0.6	+0.0	32.5	46.0	-13.5	Horiz
5	313.125M	42.1	-27.0 +0.5	+13.1	+1.8	+0.4	+0.0	30.9	46.0	-15.1	Horiz
6	266.399M	41.1	-27.0 +0.4	+13.8	+1.7	+0.4	+0.0	30.4	46.0	-15.6	Vert

CKC Laboratories, Inc Date: 8/22/2013 Time: 11:43:15 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 72



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/20/2013
 Test Type: **Radiated Scan** Time: 15:27:52
 Equipment: **Household Air Mattress Inflator** Sequence#: 9
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
T2	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D-00101800-30-10P	4/11/2013	4/11/2015
T5	AN03015	Cable	32022-2-29094K-24TC	5/6/2013	5/6/2015
T6	AN03309	High Pass Filter	11SH10-3000/T10000-O/O	6/12/2012	6/12/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 1000MHz to 12000MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz
 Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi
 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.
 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.
Low Channel

Ext Attn: 0 dB

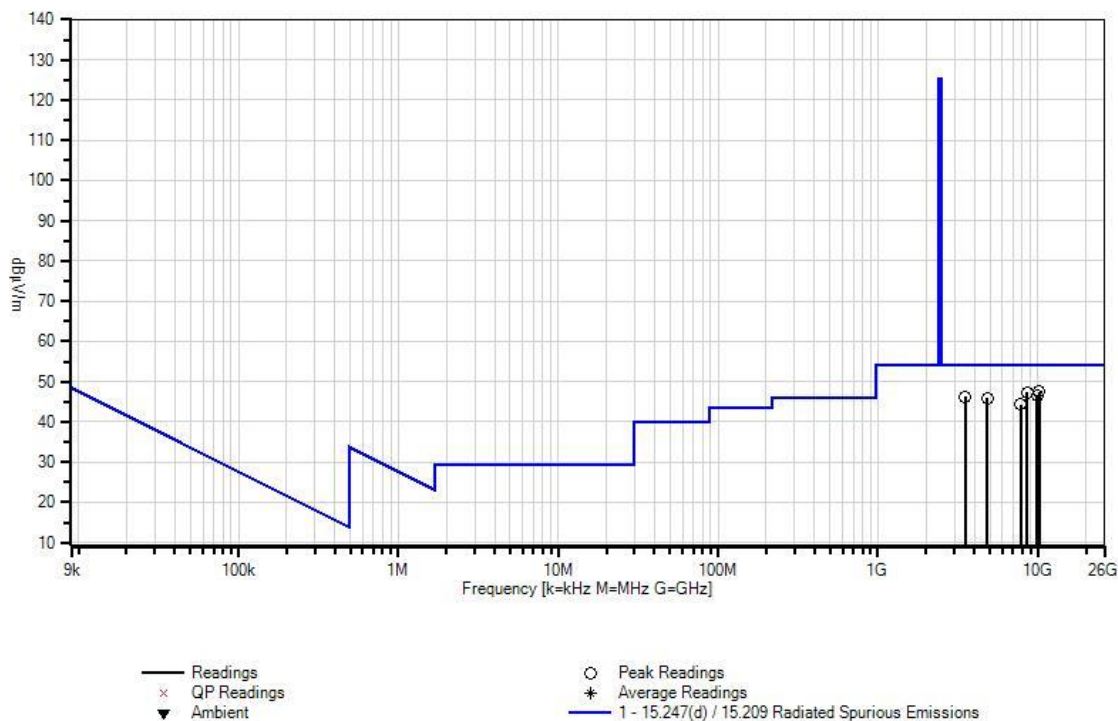
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	10182.914 M	56.0	+39.7 +1.3	+2.3 +0.1	+6.3	-58.2	+0.0	47.5	54.0	-6.5	Horiz
2	8551.791M	57.2	+37.5 +1.5	+2.1 +0.3	+5.6	-56.8	+0.0	47.4	54.0	-6.6	Horiz
3	9880.892M	55.3	+39.5 +1.3	+2.3 +0.1	+6.2	-58.0	+0.0	46.7	54.0	-7.3	Vert
4	3514.644M	69.2	+31.3 +0.4	+1.3 +0.4	+3.1	-59.4	+0.0	46.3	54.0	-7.7	Vert
5	4803.050M	64.8	+33.2 +0.7	+1.5 +0.2	+3.8	-58.3	+0.0	45.9	54.0	-8.1	Vert
6	7830.680M	57.1	+36.7 +1.2	+2.0 +0.2	+5.5	-58.4	+0.0	44.3	54.0	-9.7	Horiz

CKC Laboratories, Inc Date: 8/20/2013 Time: 15:27:52 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 9



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 14:54:43
 Equipment: **Household Air Mattress Inflator** Sequence#: 36
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP00928	Cable	various	2/10/2012	2/10/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
T3	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-AN02693-20130221	Active Horn Antenna	AMFW-5F-18002650-20-10P	2/21/2013	2/21/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 12000MHz to 18000MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz
 Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi
 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.
 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.
Low Channel

Ext Attn: 0 dB

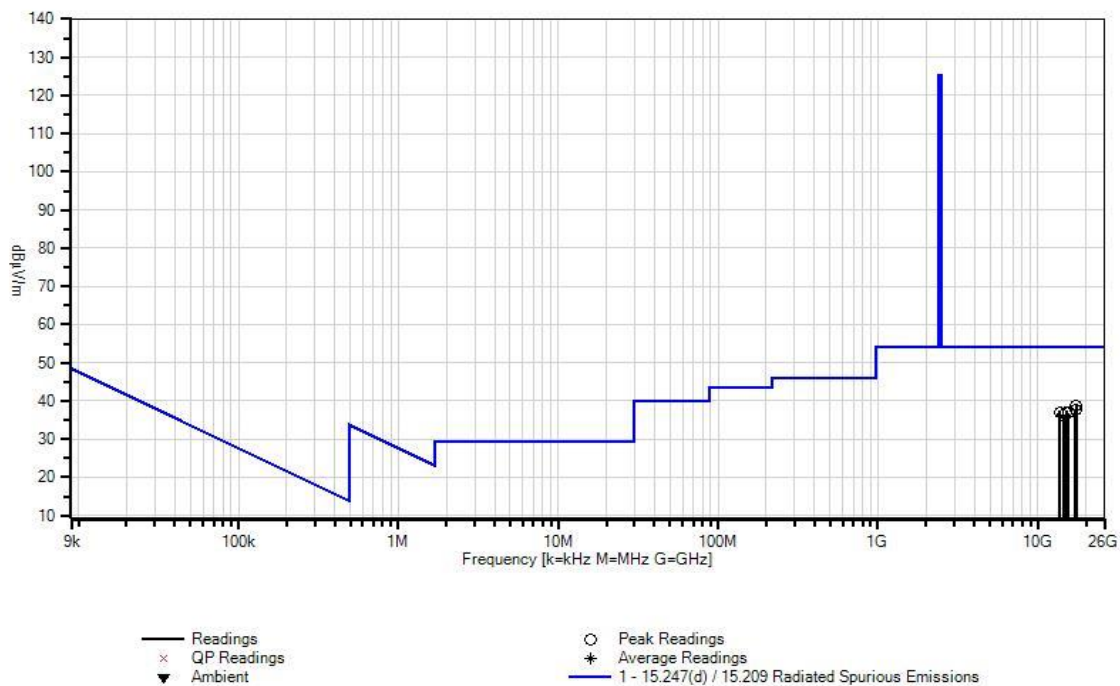
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	17390.957 M	44.9	+0.8	+3.0	+4.7	-14.6	+0.0	38.8	54.0	-15.2	Vert
2	17220.911 M	43.9	+0.8	+3.1	+4.7	-14.7	+0.0	37.8	54.0	-16.2	Horiz
3	14976.024 M	44.2	+1.0	+3.0	+4.3	-15.4	+0.0	37.1	54.0	-16.9	Horiz
4	13730.711 M	45.3	+0.9	+2.7	+4.2	-16.1	+0.0	37.0	54.0	-17.0	Horiz
5	15565.554 M	44.1	+1.0	+3.2	+4.4	-15.8	+0.0	36.9	54.0	-17.1	Vert
6	14420.671 M	43.8	+0.9	+2.9	+4.3	-15.5	+0.0	36.4	54.0	-17.6	Vert

CKC Laboratories, Inc Date: 8/21/2013 Time: 14:54:43 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 36



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 16:33:28
 Equipment: **Household Air Mattress Inflator** Sequence#: 51
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
T2	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T3	AN02694	Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	2/4/2013	2/4/2015
T4	ANP00929	Cable	various	2/16/2012	2/16/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 18000MHz to 25000MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz
 Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi
 9 kHz-150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.
 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.
Low Channel

Ext Attn: 0 dB

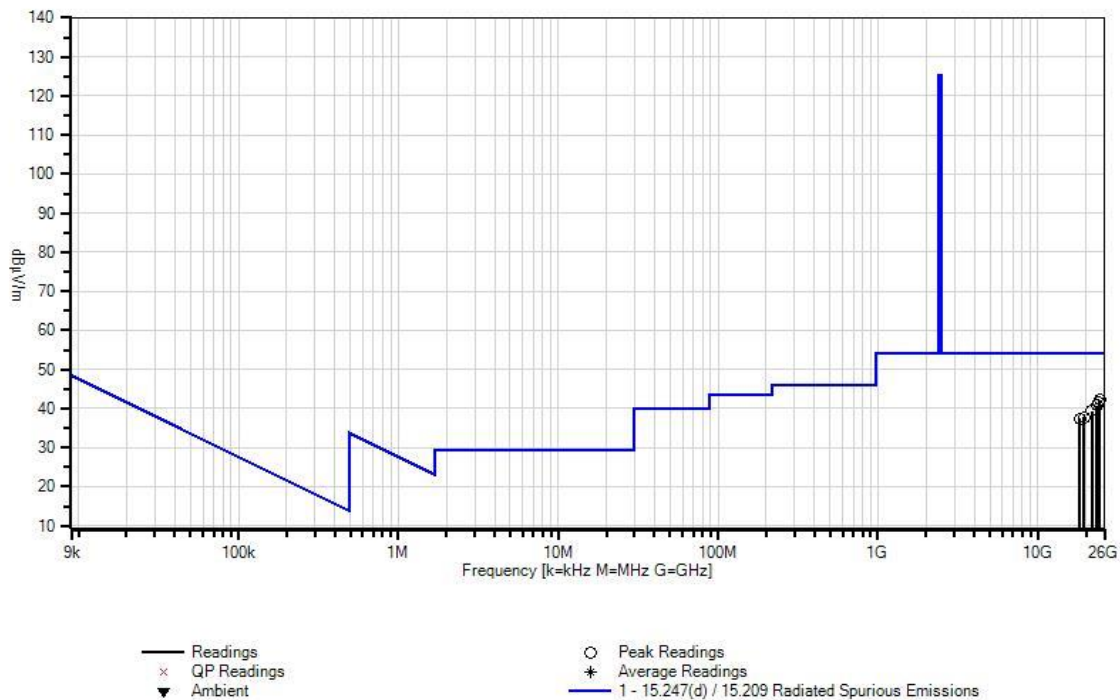
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24370.000 M	46.6	+4.5	+5.5	-17.3	+2.9	+0.0	42.2	54.0	-11.8	Vert
2	24118.000 M	46.3	+4.4	+5.5	-17.5	+3.0	+0.0	41.7	54.0	-12.3	Horiz
3	23439.000 M	45.8	+4.4	+5.4	-17.7	+2.9	+0.0	40.8	54.0	-13.2	Vert
4	21675.000 M	44.2	+4.2	+5.2	-17.2	+3.0	+0.0	39.4	54.0	-14.6	Vert
5	19330.000 M	42.5	+3.6	+4.9	-16.6	+3.3	+0.0	37.7	54.0	-16.3	Horiz
6	18224.000 M	42.8	+3.3	+4.8	-16.9	+3.4	+0.0	37.4	54.0	-16.6	Horiz

CKC Laboratories, Inc Date: 8/21/2013 Time: 16:33:28 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 51



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/22/2013
 Test Type: **Radiated Scan** Time: 15:24:21
 Equipment: **Household Air Mattress Inflator** Sequence#: 84
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 9kHz to 30 MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C
 Humidity: 39%
 Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi

9 kHz-150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.
Middle Channel

Ext Attn: 0 dB

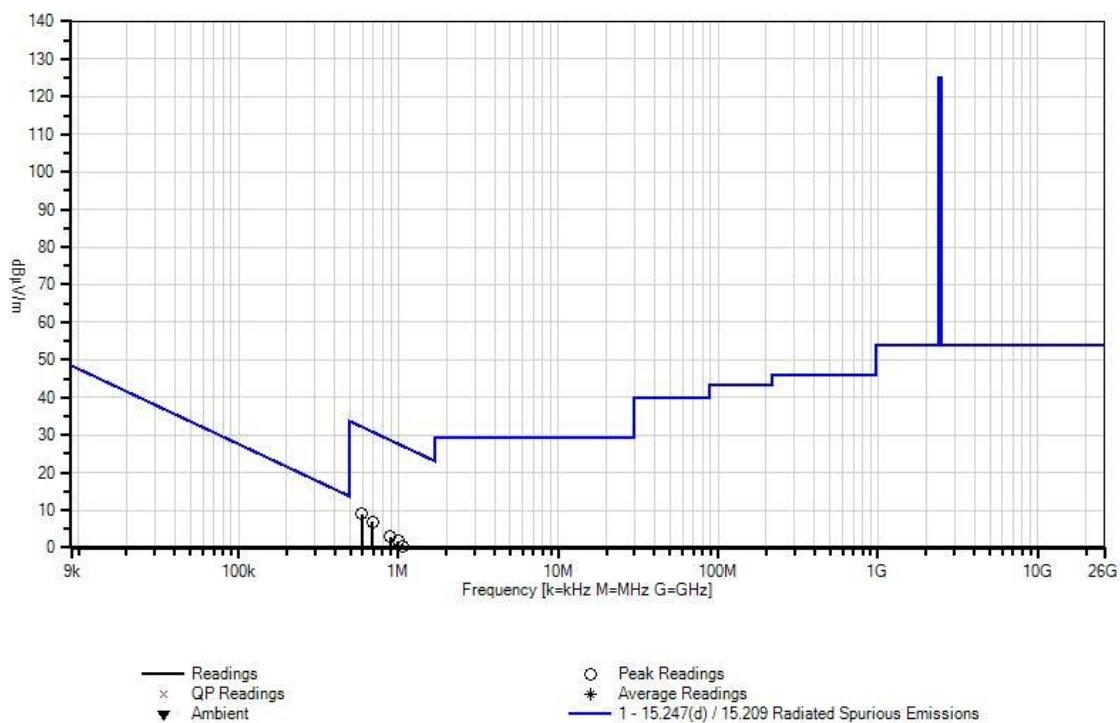
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB		Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	591.138k	39.0	+9.8	+0.1	+0.0		-40.0	8.9	32.2	-23.3	Perpe
2	689.401k	37.0	+9.9	+0.1	+0.0		-40.0	7.0	30.8	-23.8	Paral
3	892.199k	33.4	+9.5	+0.1	+0.0		-40.0	3.0	28.6	-25.6	Paral
4	998.825k	32.0	+9.7	+0.1	+0.0		-40.0	1.8	27.6	-25.8	Perpe
5	1.193M	29.5	+9.8	+0.1	+0.0		-40.0	-0.6	26.1	-26.7	Perpe
6	1.068M	30.5	+9.7	+0.1	+0.0		-40.0	0.3	27.1	-26.8	Paral

CKC Laboratories, Inc Date: 8/22/2013 Time: 15:24:21 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 84



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/22/2013
 Test Type: **Radiated Scan** Time: 13:34:28
 Equipment: **Household Air Mattress Inflator** Sequence#: 75
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamplifier	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 30MHz to 1000MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.
Middle Channel

Ext Attn: 0 dB

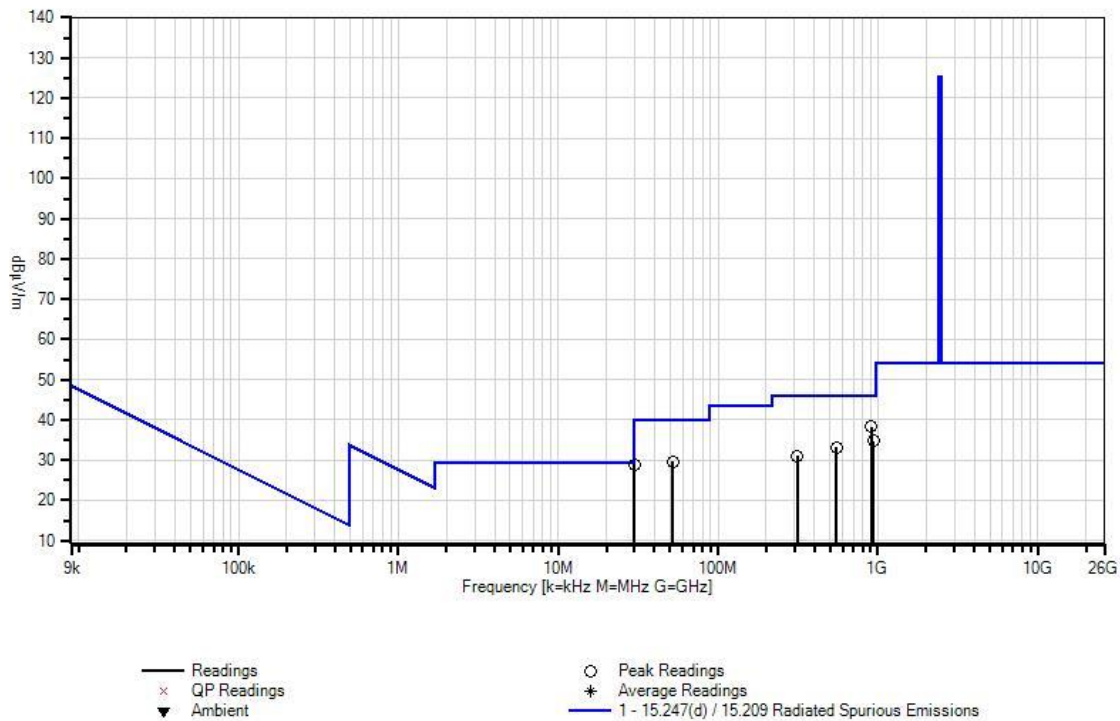
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	909.281M	37.1	-27.1 +0.9	+22.9	+3.5	+1.0	+0.0	38.3	46.0	-7.7	Vert
2	52.028M	47.4	-27.0 +0.2	+8.2	+0.7	+0.1	+0.0	29.6	40.0	-10.4	Vert
3	30.000M	36.7	-27.0 +0.1	+18.4	+0.5	+0.2	+0.0	28.9	40.0	-11.1	Vert
4	937.890M	33.3	-27.1 +0.9	+23.2	+3.5	+1.0	+0.0	34.8	46.0	-11.2	Horiz
5	546.398M	37.1	-26.9 +0.7	+19.1	+2.5	+0.6	+0.0	33.1	46.0	-12.9	Horiz
6	313.366M	42.2	-27.0 +0.5	+13.1	+1.8	+0.4	+0.0	31.0	46.0	-15.0	Horiz

CKC Laboratories, Inc Date: 8/22/2013 Time: 13:34:28 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 75



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/20/2013
 Test Type: **Radiated Scan** Time: 15:54:46
 Equipment: **Household Air Mattress Inflator** Sequence#: 12
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
T2	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/11/2013	4/11/2015
T5	AN03015	Cable	32022-2-29094K-24TC	5/6/2013	5/6/2015
T6	AN03309	High Pass Filter	11SH10-3000/T10000-O/O	6/12/2012	6/12/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 1000MHz to 12000MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz
 Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF Output of the chip = 0dBm
 Gain of the antenna =1dBi
 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.
 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.
Middle Channel

Ext Attn: 0 dB

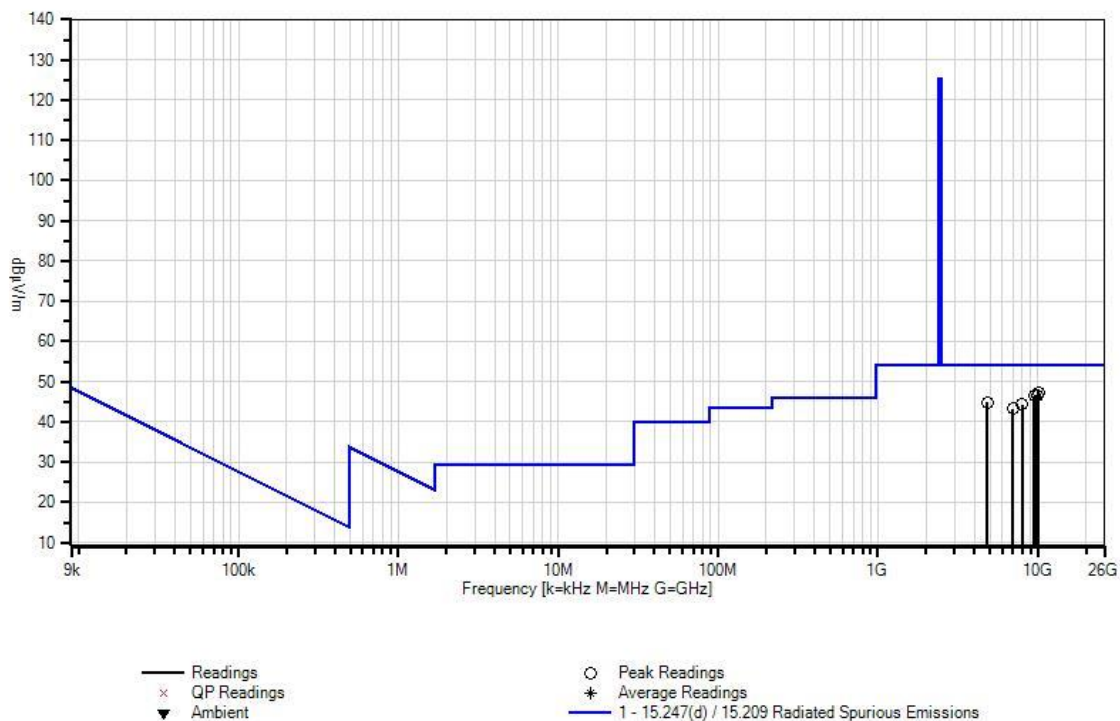
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	10044.281 M	55.9	+39.7 +1.3	+2.3 +0.0	+6.3	-58.2	+0.0	47.3	54.0	-6.7	Horiz
2	9878.416M	55.3	+39.5 +1.3	+2.3 +0.1	+6.2	-58.0	+0.0	46.7	54.0	-7.3	Vert
3	9447.776M	55.5	+38.5 +1.2	+2.2 +0.3	+6.3	-57.5	+0.0	46.5	54.0	-7.5	Vert
4	4804.288M	63.7	+33.2 +0.7	+1.5 +0.2	+3.8	-58.3	+0.0	44.8	54.0	-9.2	Horiz
5	7956.432M	56.7	+36.8 +1.3	+2.0 +0.1	+5.4	-57.9	+0.0	44.4	54.0	-9.6	Horiz
6	6946.632M	59.5	+35.2 +0.9	+1.9 +0.2	+5.0	-59.4	+0.0	43.3	54.0	-10.7	Vert

CKC Laboratories, Inc Date: 8/20/2013 Time: 15:54:46 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 12



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 15:29:27
 Equipment: **Household Air Mattress Inflator** Sequence#: 39
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP00928	Cable	various	2/10/2012	2/10/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
T3	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-AN02693-20130221	Active Horn Antenna	AMFW-5F-18002650-20-10P	2/21/2013	2/21/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 12000MHz to 18000MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz
 Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz; High Frequency: 2.480GHz
 RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi
 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.
 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.
Middle Channel

Ext Attn: 0 dB

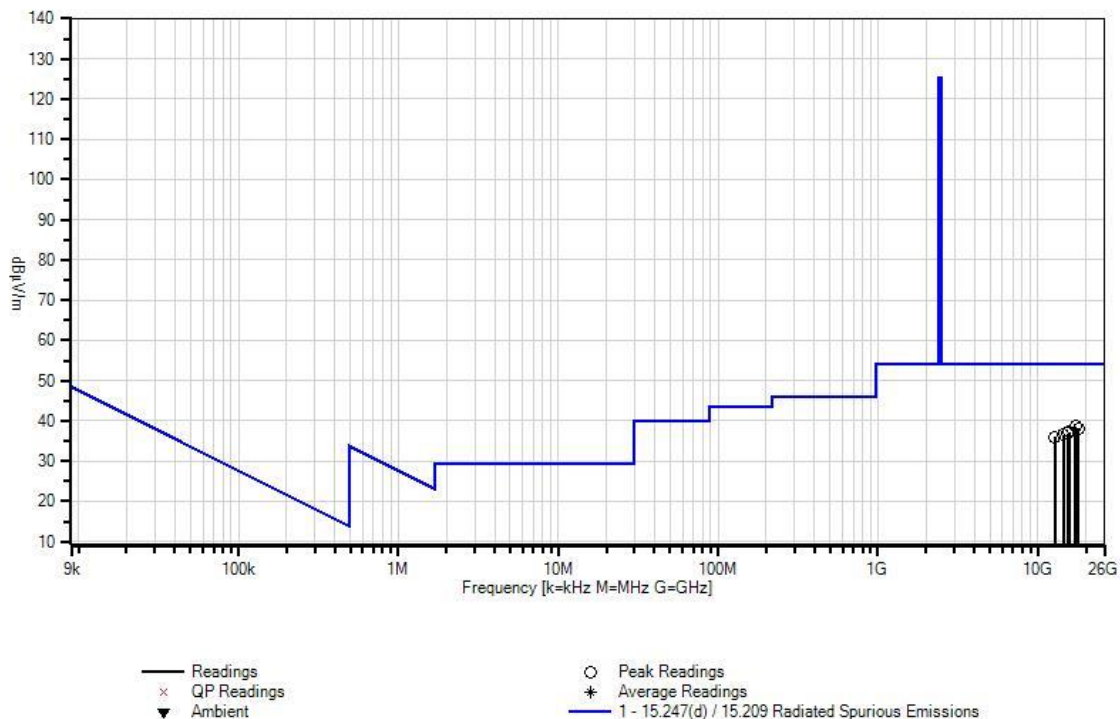
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	17222.647 M	44.7	+0.8	+3.1	+4.7	-14.7	+0.0	38.6	54.0	-15.4	Vert
2	17796.986 M	42.8	+0.8	+3.3	+4.7	-13.4	+0.0	38.2	54.0	-15.8	Horiz
3	15631.405 M	44.7	+1.0	+3.2	+4.4	-16.0	+0.0	37.3	54.0	-16.7	Vert
4	15388.381 M	44.2	+1.0	+3.1	+4.4	-15.8	+0.0	36.9	54.0	-17.1	Horiz
5	14354.084 M	44.2	+0.9	+2.8	+4.3	-15.6	+0.0	36.6	54.0	-17.4	Vert
6	12698.980 M	44.2	+0.9	+2.6	+4.0	-15.7	+0.0	36.0	54.0	-18.0	Horiz

CKC Laboratories, Inc Date: 8/21/2013 Time: 15:29:27 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 39



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 16:25:22
 Equipment: **Household Air Mattress Inflator** Sequence#: 48
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
T2	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T3	AN02694	Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	2/4/2013	2/4/2015
T4	ANP00929	Cable	various	2/16/2012	2/16/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 18000MHz to 25000MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz
 Middle Frequency: 2.440GHz
 High Frequency: 2.480GHz

RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.
Middle Channel

Ext Attn: 0 dB

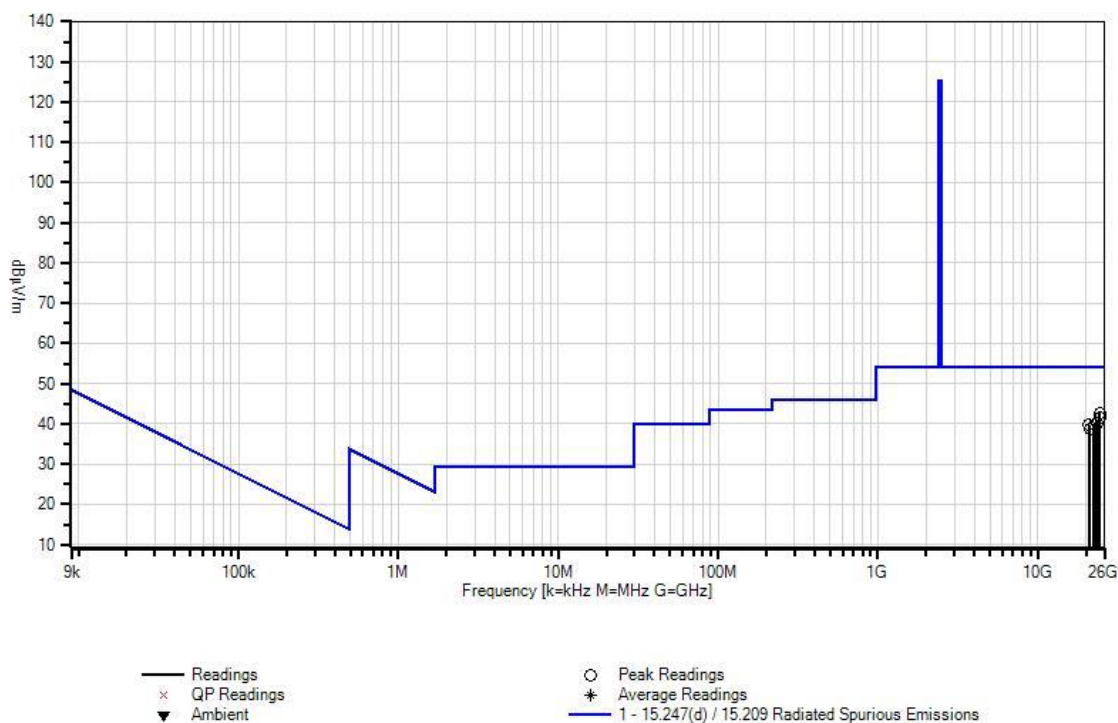
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24295.656 M	47.3	+4.5	+5.5	-17.4	+2.9	+0.0	42.8	54.0	-11.2	Vert
2	24344.884 M	46.0	+4.5	+5.5	-17.4	+2.9	+0.0	41.5	54.0	-12.5	Horiz
3	23405.759 M	45.3	+4.4	+5.4	-17.8	+2.9	+0.0	40.2	54.0	-13.8	Horiz
4	22311.374 M	44.7	+4.4	+5.3	-17.5	+2.9	+0.0	39.8	54.0	-14.2	Vert
5	20798.700 M	44.3	+4.2	+5.1	-17.0	+3.1	+0.0	39.7	54.0	-14.3	Horiz
6	21165.005 M	43.2	+4.2	+5.2	-17.1	+3.1	+0.0	38.6	54.0	-15.4	Vert

CKC Laboratories, Inc Date: 8/21/2013 Time: 16:25:22 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 48



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/22/2013
 Test Type: **Radiated Scan** Time: 14:56:53
 Equipment: **Household Air Mattress Inflator** Sequence#: 81
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 9kHz to 30 MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz
 Middle Frequency: 2.440GHz
 High Frequency: 2.480GHz

RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.
High Channel

Ext Attn: 0 dB

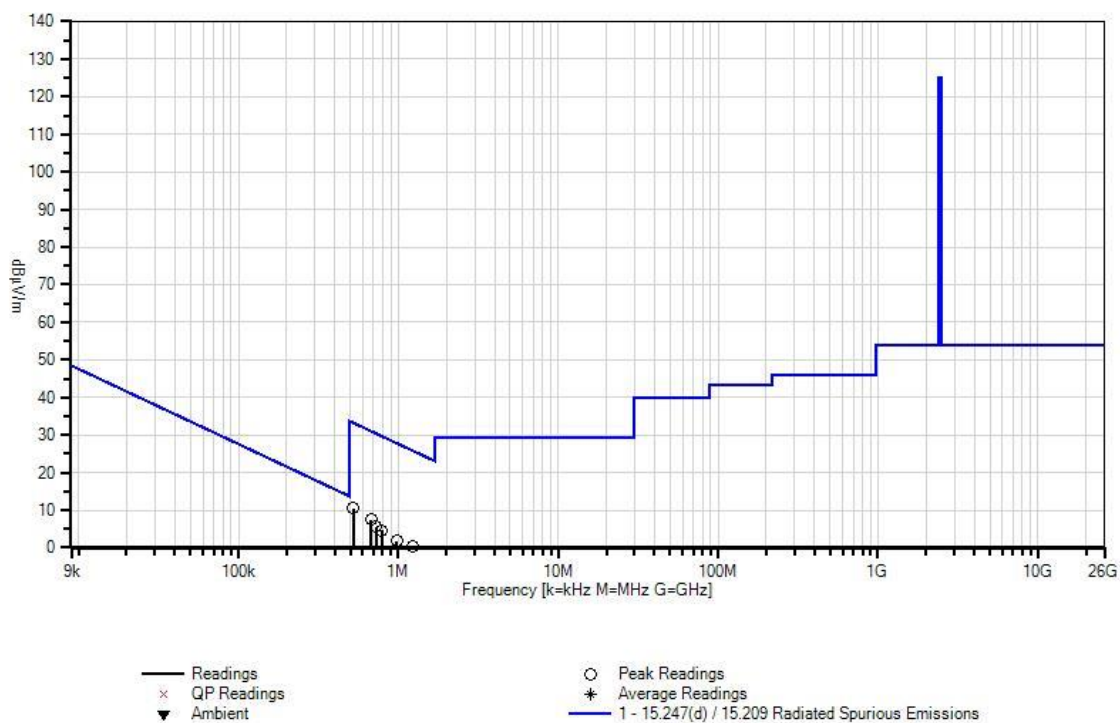
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB		Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	524.236k	40.6	+9.8	+0.1	+0.0		-40.0	10.5	33.2	-22.7	Paral
2	672.676k	37.4	+9.9	+0.1	+0.0		-40.0	7.4	31.1	-23.7	Perpe
3	724.943k	35.7	+9.8	+0.1	+0.0		-40.0	5.6	30.4	-24.8	Perpe
4	791.846k	35.1	+9.4	+0.1	+0.0		-40.0	4.6	29.6	-25.0	Paral
5	1.237M	30.5	+9.8	+0.1	+0.0		-40.0	0.4	25.8	-25.4	Perpe
6	973.737k	32.1	+9.6	+0.1	+0.0		-40.0	1.8	27.9	-26.1	Paral

CKC Laboratories, Inc Date: 8/22/2013 Time: 14:56:53 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 81



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/22/2013
 Test Type: **Radiated Scan** Time: 14:13:32
 Equipment: **Household Air Mattress Inflator** Sequence#: 78
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamplifier	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 30MHz to 1000MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.
High Channel

Ext Attn: 0 dB

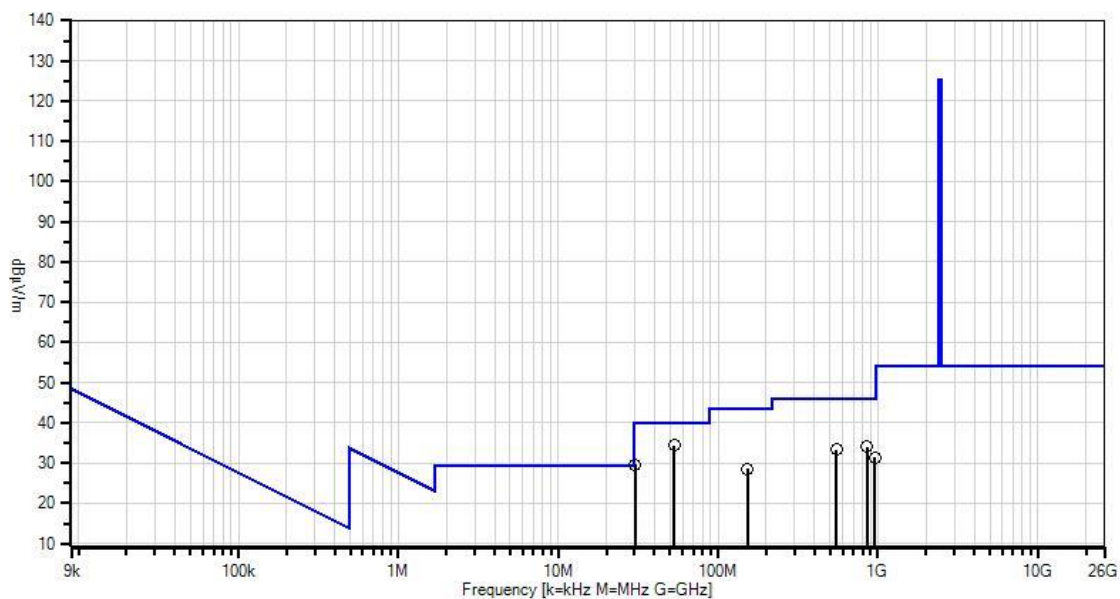
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	53.159M	52.5	-27.0 +0.2	+7.8	+0.7	+0.2	+0.0	34.4	40.0	-5.6	Vert
2	30.133M	37.5	-27.0 +0.1	+18.3	+0.5	+0.2	+0.0	29.6	40.0	-10.4	Vert
3	851.383M	33.6	-26.9 +0.9	+22.3	+3.3	+0.9	+0.0	34.1	46.0	-11.9	Vert
4	546.398M	37.4	-26.9 +0.7	+19.1	+2.5	+0.6	+0.0	33.4	46.0	-12.6	Horiz
5	951.038M	29.6	-27.1 +0.9	+23.5	+3.5	+1.0	+0.0	31.4	46.0	-14.6	Horiz
6	153.005M	43.0	-27.0 +0.4	+10.7	+1.2	+0.3	+0.0	28.6	43.5	-14.9	Horiz

CKC Laboratories, Inc Date: 8/22/2013 Time: 14:13:32 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 78



— Readings
× QP Readings
▼ Ambient
○ Peak Readings
* Average Readings
— 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/20/2013
 Test Type: **Radiated Scan** Time: 16:26:00
 Equipment: **Household Air Mattress Inflator** Sequence#: 15
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
T2	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D-00101800-30-10P	4/11/2013	4/11/2015
T5	AN03015	Cable	32022-2-29094K-24TC	5/6/2013	5/6/2015
T6	AN03309	High Pass Filter	11SH10-3000/T10000-O/O	6/12/2012	6/12/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 1000MHz to 12000MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz
 Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi
 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.
 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.
High Channel

Ext Attn: 0 dB

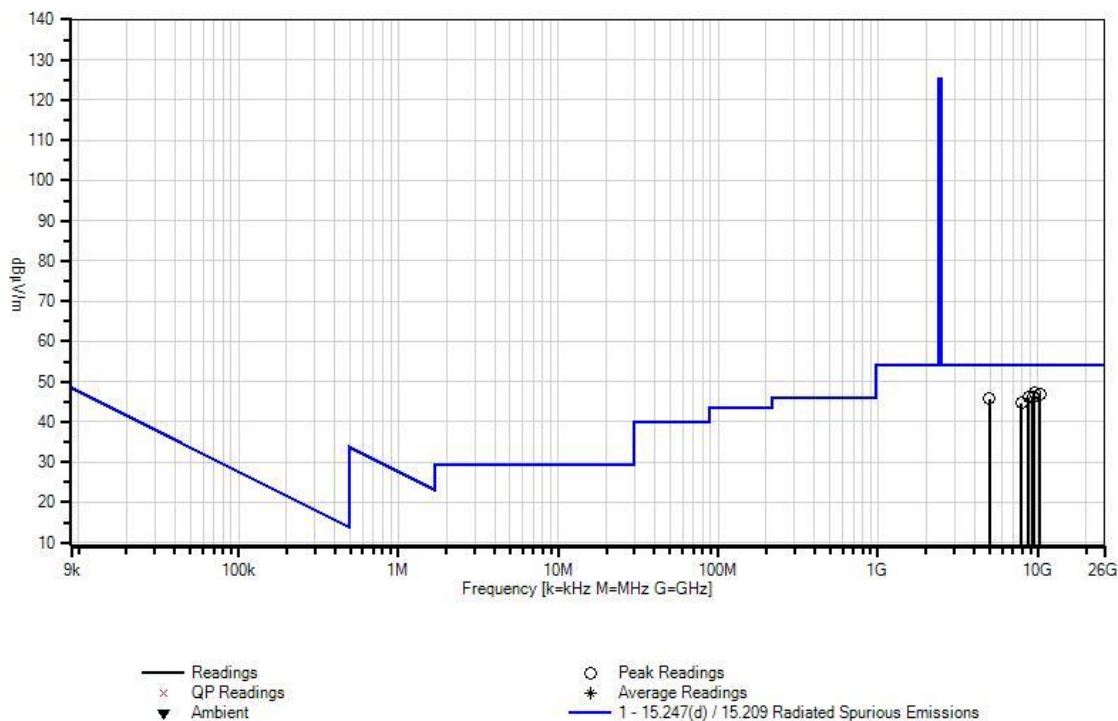
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	9435.987M	56.1	+38.5 +1.2	+2.2 +0.3	+6.3	-57.5	+0.0	47.1	54.0	-6.9	Vert
2	10272.036 M	55.8	+39.6 +1.3	+2.3 +0.1	+6.2	-58.4	+0.0	46.9	54.0	-7.1	Horiz
3	9268.972M	55.3	+38.3 +1.3	+2.2 +0.4	+6.1	-57.3	+0.0	46.3	54.0	-7.7	Horiz
4	8707.016M	55.1	+37.8 +1.4	+2.1 +0.3	+5.7	-56.3	+0.0	46.1	54.0	-7.9	Vert
5	4959.013M	63.7	+33.6 +0.7	+1.6 +0.2	+3.9	-57.9	+0.0	45.8	54.0	-8.2	Horiz
6	7866.048M	57.4	+36.7 +1.2	+2.0 +0.2	+5.4	-58.2	+0.0	44.7	54.0	-9.3	Vert

CKC Laboratories, Inc Date: 8/20/2013 Time: 16:26:00 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 15



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 15:47:11
 Equipment: **Household Air Mattress Inflator** Sequence#: 42
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP00928	Cable	various	2/10/2012	2/10/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
T3	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-AN02693-20130221	Active Horn Antenna	AMFW-5F-18002650-20-10P	2/21/2013	2/21/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 12000MHz to 18000MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only.
High Channel

Ext Attn: 0 dB

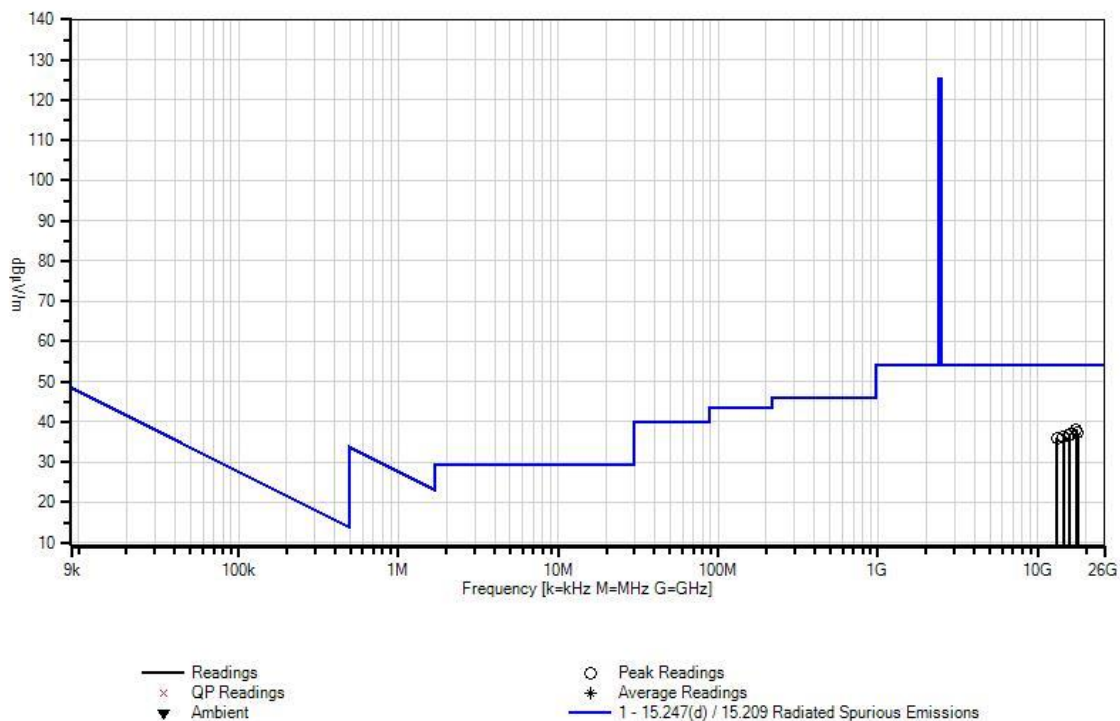
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	17275.640 M	44.1	+0.8	+3.1	+4.7	-14.6	+0.0	38.1	54.0	-15.9	Horiz
2	17748.401 M	42.1	+0.8	+3.3	+4.7	-13.6	+0.0	37.3	54.0	-16.7	Vert
3	15891.676 M	44.6	+1.0	+3.2	+4.5	-16.3	+0.0	37.0	54.0	-17.0	Vert
4	15611.608 M	44.0	+1.0	+3.2	+4.4	-15.9	+0.0	36.7	54.0	-17.3	Horiz
5	14490.092 M	43.6	+0.9	+2.9	+4.3	-15.4	+0.0	36.3	54.0	-17.7	Vert
6	13128.127 M	44.4	+0.9	+2.6	+4.1	-16.0	+0.0	36.0	54.0	-18.0	Horiz

CKC Laboratories, Inc Date: 8/21/2013 Time: 15:47:11 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 42



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 16:13:27
 Equipment: **Household Air Mattress Inflator** Sequence#: 45
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
T2	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T3	AN02694	Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	2/4/2013	2/4/2015
T4	ANP00929	Cable	various	2/16/2012	2/16/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 18000MHz to 25000MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF Output of the chip = 0dBm
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note:
Bluetooth is operated only.
High Channel

Ext Attn: 0 dB

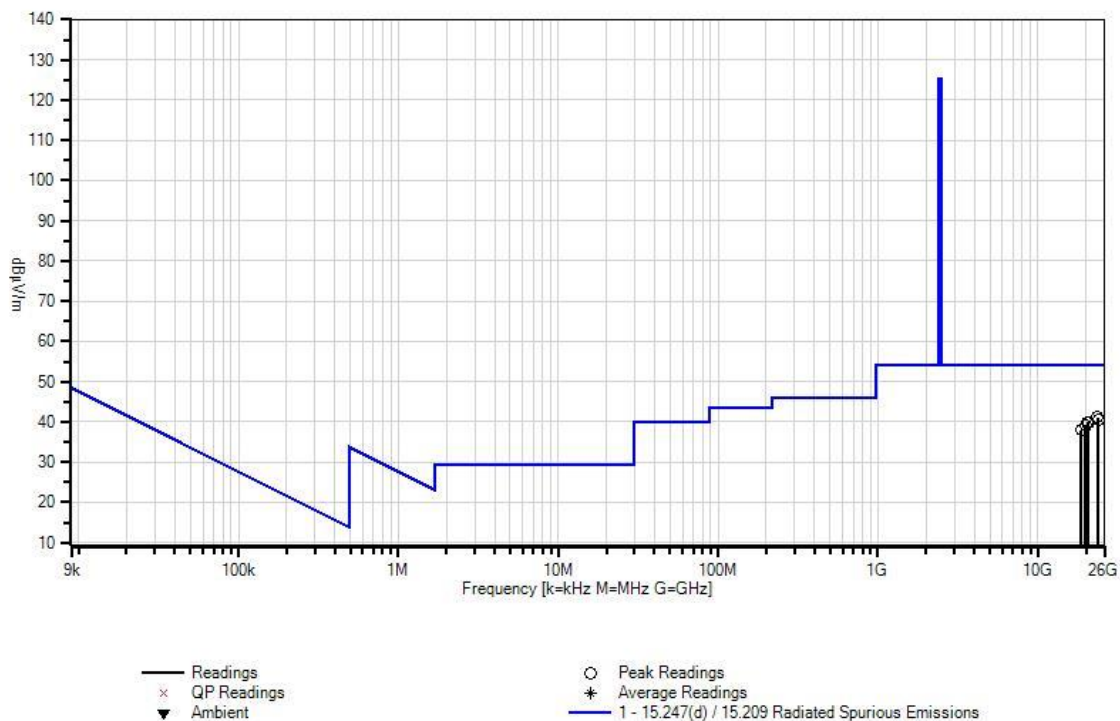
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23530.723 M	46.0	+4.4	+5.4	-17.7	+3.0	+0.0	41.1	54.0	-12.9	Vert
2	23916.976 M	45.2	+4.4	+5.5	-17.5	+2.9	+0.0	40.5	54.0	-13.5	Horiz
3	20663.746 M	44.4	+4.2	+5.1	-16.9	+3.1	+0.0	39.9	54.0	-14.1	Vert
4	20512.725 M	44.2	+4.1	+5.1	-16.8	+3.2	+0.0	39.8	54.0	-14.2	Horiz
5	19841.166 M	43.9	+3.8	+4.9	-16.7	+3.2	+0.0	39.1	54.0	-14.9	Vert
6	18719.758 M	43.0	+3.5	+4.8	-16.6	+3.3	+0.0	38.0	54.0	-16.0	Horiz

CKC Laboratories, Inc Date: 8/21/2013 Time: 16:13:27 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 45



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/22/2013
 Test Type: **Radiated Scan** Time: 15:57:13
 Equipment: **Household Air Mattress Inflator** Sequence#: 90
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 9kHz to 30MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz
 Number of Channel: 16
 Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF output power of the chip= 1.19 dBm (DC)
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Zigbee is operated only.
Low Channel

Ext Attn: 0 dB

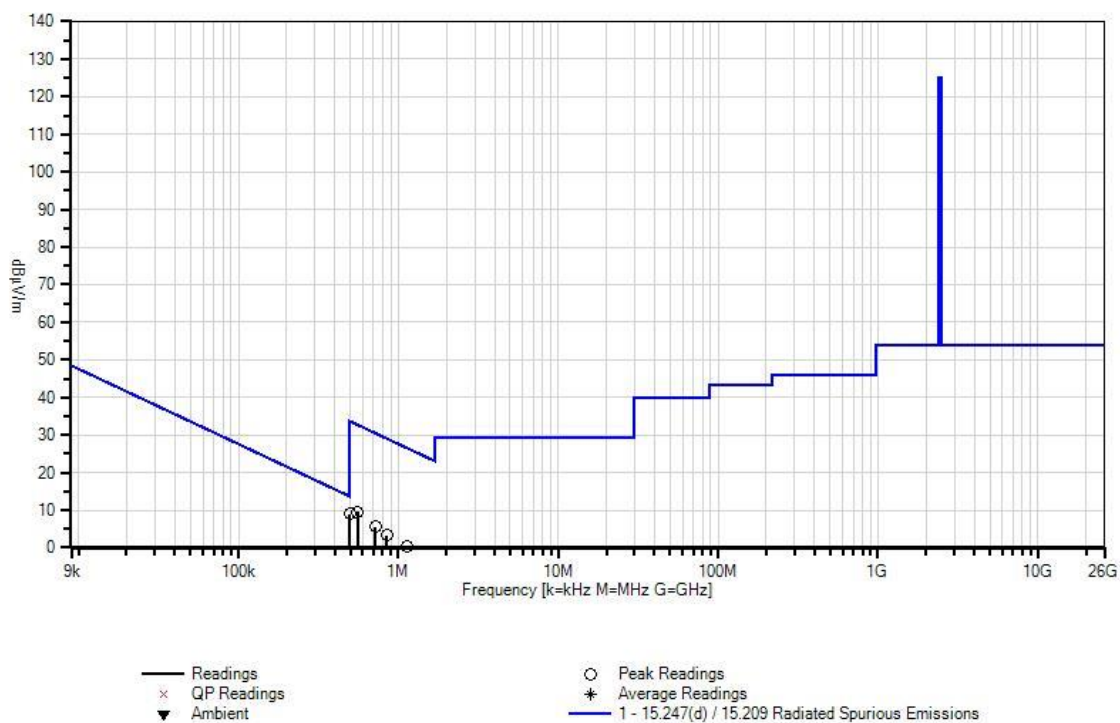
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB		Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	557.687k	39.6	+9.8	+0.1	+0.0		-40.0	9.5	32.7	-23.2	Paral
2	494.966k	39.0	+9.8	+0.1	+0.0		-40.0	8.9	33.7	-24.8	Perpe
3	720.762k	35.7	+9.8	+0.1	+0.0		-40.0	5.6	30.5	-24.9	Perpe
4	848.294k	33.9	+9.4	+0.1	+0.0		-40.0	3.4	29.0	-25.6	Paral
5	1.137M	30.7	+9.7	+0.1	+0.0		-40.0	0.5	26.5	-26.0	Paral
6	1.308M	29.0	+9.8	+0.1	+0.0		-40.0	-1.1	25.3	-26.4	Perpe

CKC Laboratories, Inc Date: 8/22/2013 Time: 15:57:13 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 90



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/22/2013
 Test Type: **Radiated Scan** Time: 10:55:17
 Equipment: **Household Air Mattress Inflator** Sequence#: 69
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamplifier	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 30MHz to 1000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Number of Channel: 16 Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz RF output power of the chip= 1.19 dBm (DC) Gain of the antenna = 1dBi 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz. The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit Note: Zigbee is operated only. Low Channel

Ext Attn: 0 dB

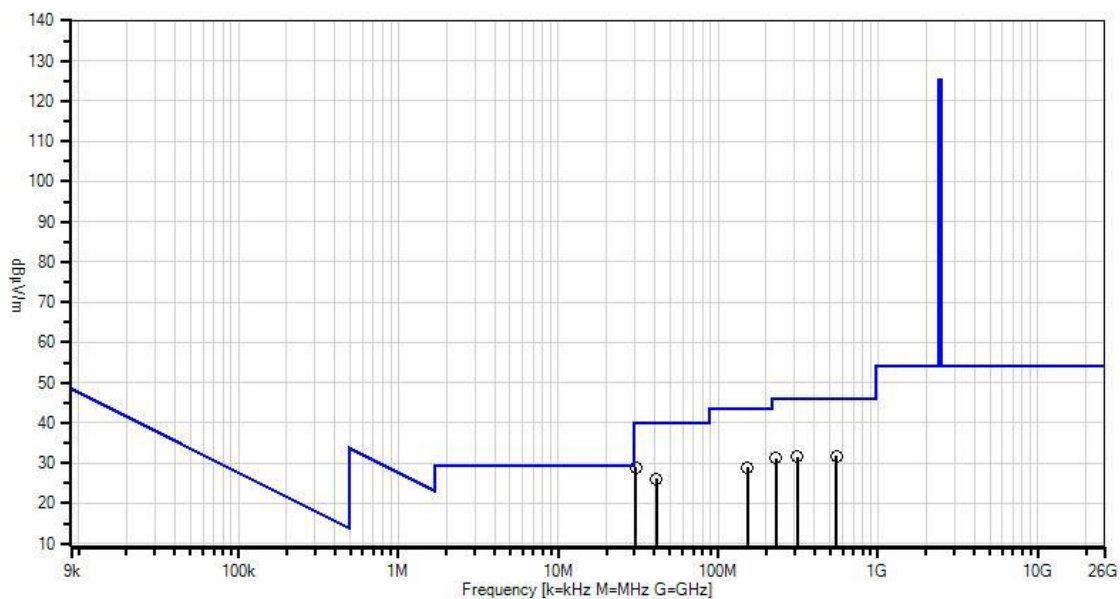
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	30.466M	37.2	-27.1 +0.1	+18.1	+0.5	+0.2	+0.0	29.0	40.0	-11.0	Vert
2	41.047M	39.3	-27.0 +0.2	+12.8	+0.6	+0.1	+0.0	26.0	40.0	-14.0	Vert
3	546.398M	35.7	-26.9 +0.7	+19.1	+2.5	+0.6	+0.0	31.7	46.0	-14.3	Vert
4	311.684M	42.7	-27.0 +0.5	+13.1	+1.8	+0.4	+0.0	31.5	46.0	-14.5	Horiz
5	152.885M	43.4	-27.0 +0.4	+10.7	+1.2	+0.3	+0.0	29.0	43.5	-14.5	Horiz
6	228.921M	46.1	-27.0 +0.4	+9.9	+1.5	+0.3	+0.0	31.2	46.0	-14.8	Horiz

CKC Laboratories, Inc Date: 8/22/2013 Time: 10:55:17 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 69



— Readings
× QP Readings
▼ Ambient
○ Peak Readings
* Average Readings
— 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 12:03:21
 Equipment: **Household Air Mattress Inflator** Sequence#: 24
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
T2	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D-00101800-30-10P	4/11/2013	4/11/2015
T5	AN03015	Cable	32022-2-29094K-24TC	5/6/2013	5/6/2015
T6	AN03309	High Pass Filter	11SH10-3000/T10000-O/O	6/12/2012	6/12/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 1000MHz to 12000MHz
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa
 Transmitter operating frequency: 2.4GHz
 Number of Channel: 16
 Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF output power of the chip= 1.19 dBm (DC)
 Gain of the antenna = 1dBi
 9 kHz-150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.
 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.
Note: Zigbee is operated only.
Low Channel

Ext Attn: 0 dB

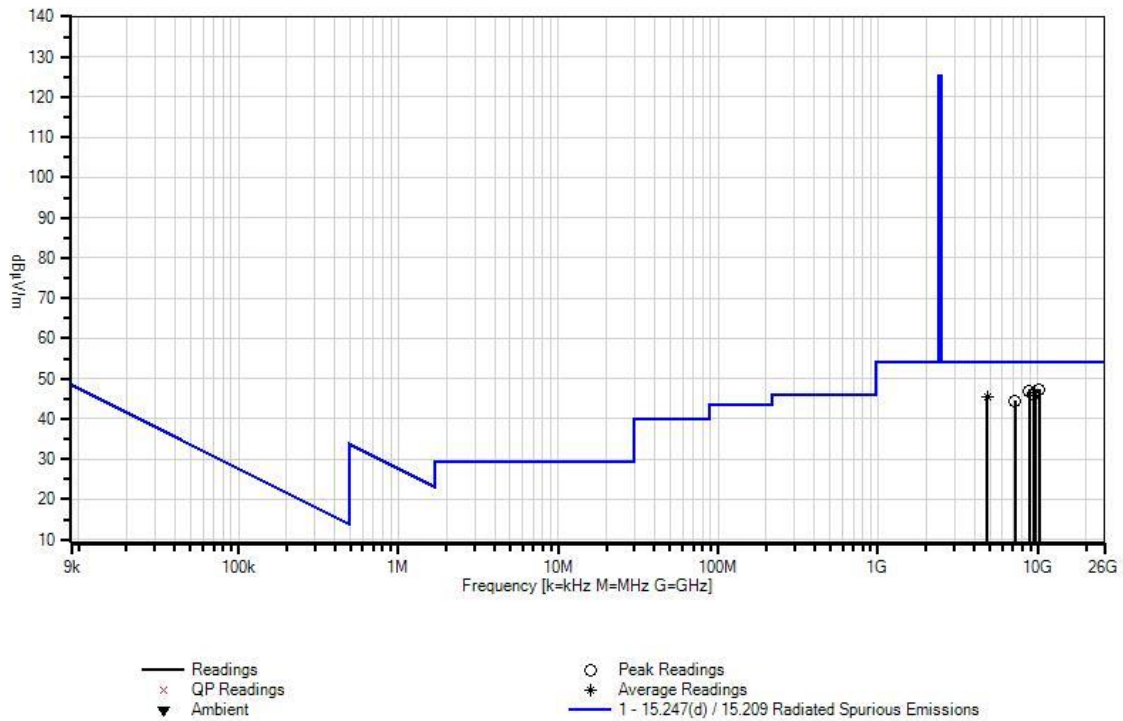
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	10180.439 M	55.8	+39.7 +1.3	+2.3 +0.1	+6.3	-58.2	+0.0	47.3	54.0	-6.7	Horiz
2	8838.663M	55.4	+38.1 +1.4	+2.1 +0.3	+5.9	-56.3	+0.0	46.9	54.0	-7.1	Vert
3	9622.099M Ave	55.4	+38.7 +1.3	+2.2 +0.3	+6.2	-57.4	+0.0	46.7	54.0	-7.3	Horiz
^	9622.099M	63.8	+38.7 +1.3	+2.2 +0.3	+6.2	-57.4	+0.0	55.1	54.0	+1.1	Horiz
^	9622.099M	61.7	+38.7 +1.3	+2.2 +0.3	+6.2	-57.4	+0.0	53.0	54.0	-1.0	Horiz
6	9382.935M	55.2	+38.4 +1.2	+2.2 +0.3	+6.2	-57.3	+0.0	46.2	54.0	-7.8	Vert
7	4811.077M Ave	64.1	+33.3 +0.7	+1.5 +0.2	+3.8	-58.3	+0.0	45.3	54.0	-8.7	Horiz
^	4811.077M	71.3	+33.3 +0.7	+1.5 +0.2	+3.8	-58.3	+0.0	52.5	54.0	-1.5	Horiz
^	4811.077M	69.5	+33.3 +0.7	+1.5 +0.2	+3.8	-58.3	+0.0	50.7	54.0	-3.3	Horiz
10	7216.431M	59.3	+36.1 +1.0	+1.9 +0.2	+5.3	-59.3	+0.0	44.5	54.0	-9.5	Vert

CKC Laboratories, Inc Date: 8/21/2013 Time: 12:03:21 Bamb Labs WO#: 94232
 Test Distance: 3 Meters Sequence#: 24



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 13:42:13
 Equipment: **Household Air Mattress Inflator** Sequence#: 27
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANANT-AN02693-20130221	Active Horn Antenna	AMFW-5F-18002650-20-10P	2/21/2013	2/21/2015
T2	ANP00928	Cable	various	2/10/2012	2/10/2014
T3	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
T4	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 12000MHz to 18000MHz

High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz
 Number of Channel: 16
 Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF output power of the chip= 1.19 dBm (DC)
 Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Zigbee is operated only.
Low Channel

Ext Attn: 0 dB

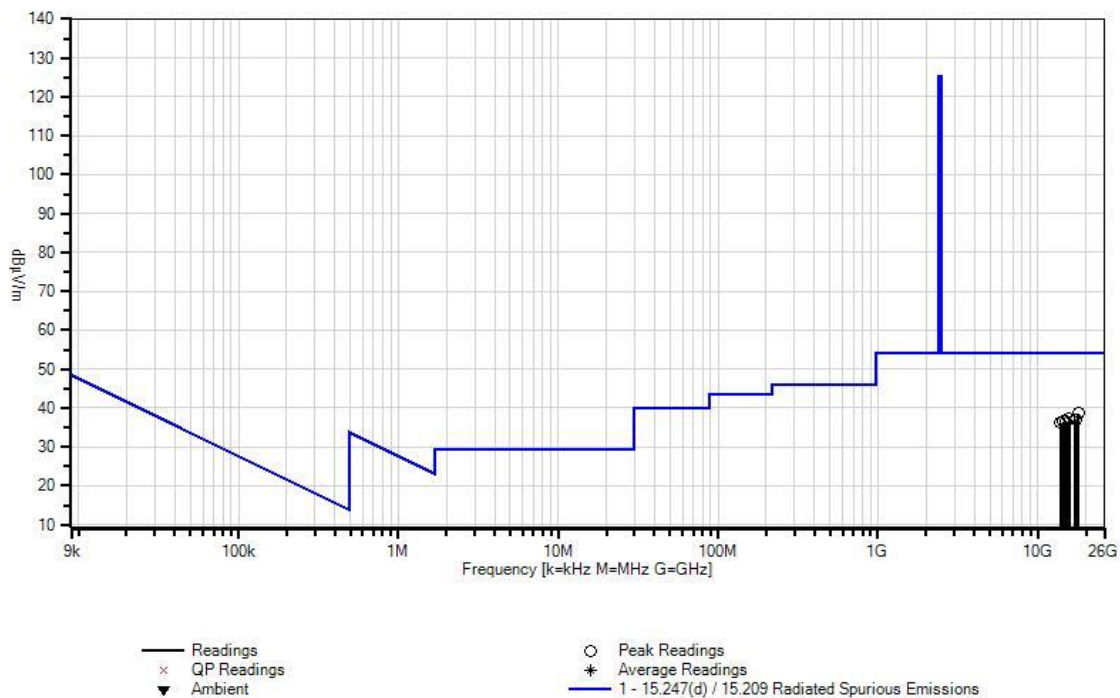
Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	17967.032 M	43.3	-13.4	+0.8	+3.3	+4.7	+0.0	38.7	54.0	-15.3	Vert
2	15581.233 M	44.7	-15.9	+1.0	+3.2	+4.4	+0.0	37.4	54.0	-16.6	Vert
3	17099.450 M	43.9	-15.4	+0.9	+3.0	+4.7	+0.0	37.1	54.0	-16.9	Horiz
4	15063.826 M	43.7	-15.4	+1.0	+3.0	+4.3	+0.0	36.6	54.0	-17.4	Horiz
5	14475.925 M	43.8	-15.4	+0.9	+2.9	+4.3	+0.0	36.5	54.0	-17.5	Vert
6	13856.802 M	44.4	-16.0	+0.9	+2.7	+4.2	+0.0	36.2	54.0	-17.8	Horiz

CKC Laboratories, Inc Date: 8/21/2013 Time: 13:42:13 Bamb Labs WO#: 94232
Test Distance: 3 Meters Sequence#: 27



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Bam Labs**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 16:44:01
 Equipment: **Household Air Mattress Inflator** Sequence#: 54
 Manufacturer: Bam Labs Tested By: Hieu Song Nguyenpham
 Model: SIQ XX00DR
 S/N: CC 04 B4 00 00 8F

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
T2	ANP06126	Cable	32022-29094K-29094K-168TC	9/7/2011	9/7/2013
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T3	AN02694	Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	2/4/2013	2/4/2015
T4	ANP00929	Cable	various	2/16/2012	2/16/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

Radiated Spurious Emission
 Frequency Range: 18000MHz to 25000MHz

 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

 Transmitter operating frequency: 2.4GHz
 Number of Channel: 16
 Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

 RF output power of the chip= 1.19 dBm (DC)
 Gain of the antenna = 1dBi

 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

 The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Zigbee is operated only.
Low Channel