

Bam Labs

ADDENDUM TEST REPORT TO 94232-14

**Household Air Mattress Inflator
Model: SIQ XX00DR**

Tested To The Following Standards:

**FCC Part 15 Subpart C Sections 15.207, 15.247
and
RSS 210 Issue 8**

Report No.: 94232-14A

Date of issue: February 7, 2014



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Bam Labs
901 Campisi Way
Campbell, CA 95008

Representative: Todd Austin / P. Carter - SEL
Customer Reference Number: SELc350

DATE OF EQUIPMENT RECEIPT:**DATE(S) OF TESTING:****REPORT PREPARED BY:**

Morgan Tramontin
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 94232

August 20, 2013

August 20-23, 2013

Revision History

Original: Testing of the Household Air Mattress Inflator, SIQ XX00DR to FCC Part 15 Subpart C Sections 15.207, 15.247 and RSS 210 Issue 8.

Addendum A: To correct the gain of the antenna in the test conditions for all sections, re-calculated the RF power and power density and corrected 138VVDC to 138V in the test conditions notes of section 15.31(e) Voltage Variations.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.00.14
Immunity	5.00.07

Site Registration & Accreditation Information

Location	CB #	TAIWAN	CANADA	FCC	JAPAN
Fremont	US0082	SL2-IN-E-1148R	3082B-1	958979	A-0149

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C

Description	Test Procedure/Method	Results
Conducted Emissions	FCC Part 15 Subpart C Section 15.207 / ANSI C63.4 (2003)	Pass
RF Power Output	FCC Part 15 Subpart C Section 15.247(b)(3) / DA 00-705	Pass
Voltage Variation	FCC Part 15 Subpart C Section 15.31(e)(m)	Pass
-6dBc Occupied Bandwidth	FCC Part 15 Subpart C Section 15.247(a)(2) / DA 00-705	Pass
99% OBW and -6dB EBW	RSS 210 Issue 8 / RSS GEN Section 4.6	Pass
Field Strength of Spurious Emissions	FCC Part 15 Subpart C Section 15.249(d) / 15.205 / DA 00-705	Pass
Band Edge	ITU-R 55/1 / DA 00-705	Pass
Power Spectral Density	FCC Part 15 Subpart C 15.247(e) / DA 00-705	Pass

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

Note: The data represented in this report identifies the manufacturer of the equipment as known at the time of testing to be BAM Labs, the company which created the design specifications and produced the product for testing. The manufacturer declares that the party responsible for the equipment herein identified is Select Comfort as shown on the front of this report.

EQUIPMENT UNDER TEST

Household Air Mattress Inflator

Manuf: Select Comfort Corporation

Model: SIQ XX00DR

Serial: CC 04 B4 00 00 8F

PERIPHERAL DEVICES

The EUT was not tested with peripheral devices.

FCC PART 15 SUBPART C

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 CFR 15C requirements for Unlicensed Radio Frequency Devices, Subpart C - Intentional Radiators.

15.207 AC Conducted Emissions

Test Data Sheets

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

Customer: **Bam Labs**

Specification: **15.207 AC Mains - Average**

Work Order #: **94232**

Test Type: **Conducted Emissions**

Equipment: **Household Air Mattress Inflator**

Manufacturer: Bam Labs

Model: SIQ XX00DR

S/N: CC 04 B4 00 00 8F

Date: 8/20/2013

Time: 9:24:06 AM

Sequence#: 1

Tested By: Hieu Song Nguyenpham
120V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP01211	Attenuator	PE7002-10	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
T4	AN00493	50uH LISN-L1 (L) Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T5	ANP05258	High Pass Filter	HE9615-150K- 50-720B	12/6/2012	12/6/2014

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:

Conducted Emission

Frequency Range: 150kHz to 30MHz

High Clock: 32 MHz

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 power of the chip =OdBm

Gain of the antenna=1dBi

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.

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

Test Lead: Black

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant
1	2.281M	25.4	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	35.3	46.0	-10.7	Black
2	2.927M	24.8	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	34.8	46.0	-11.2	Black
3	2.880M	24.6	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	34.6	46.0	-11.4	Black
4	12.598M	28.3	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	38.6	50.0	-11.4	Black
5	2.332M	24.5	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	34.4	46.0	-11.6	Black
6	3.569M	24.3	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	34.4	46.0	-11.6	Black
7	4.216M	24.3	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	34.4	46.0	-11.6	Black
8	2.378M	24.3	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	34.3	46.0	-11.7	Black
9	1.587M	24.1	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	34.1	46.0	-11.9	Black
10	3.025M	24.1	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	34.1	46.0	-11.9	Black
11	3.620M	24.0	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	34.1	46.0	-11.9	Black
12	2.234M	24.1	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	34.0	46.0	-12.0	Black

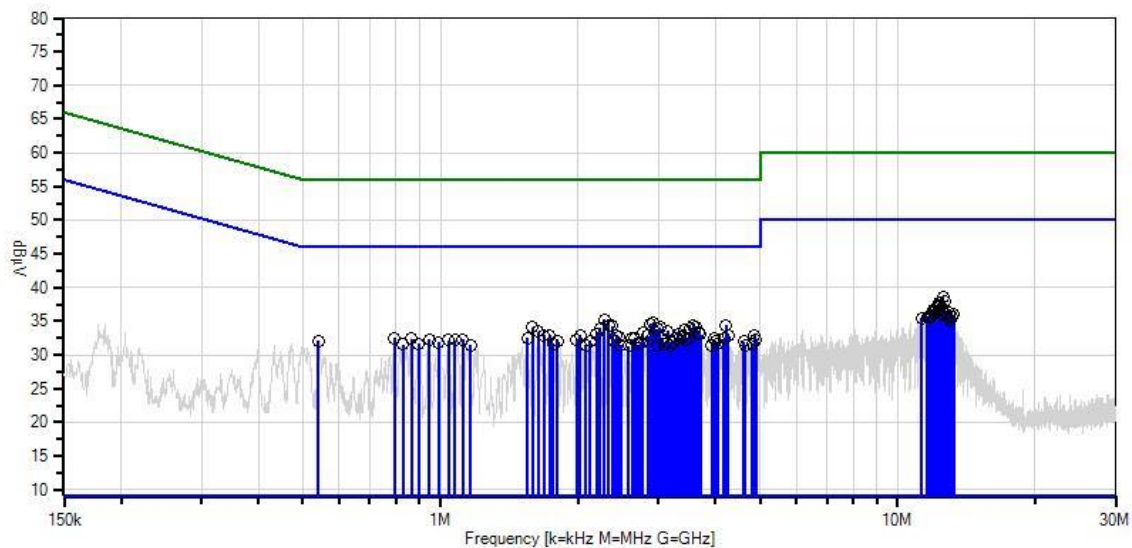
13	3.522M	24.0	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	34.0	46.0	-12.0	Black
14	2.974M	23.9	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	33.9	46.0	-12.1	Black
15	12.652M	27.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.9	50.0	-12.1	Black
16	3.420M	23.8	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	33.8	46.0	-12.2	Black
17	12.301M	27.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.7	50.0	-12.3	Black
18	3.140M	23.6	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	33.6	46.0	-12.4	Black
19	1.638M	23.5	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	33.5	46.0	-12.5	Black
20	3.671M	23.3	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	33.4	46.0	-12.6	Black
21	12.256M	27.1	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.4	50.0	-12.6	Black
22	2.774M	23.3	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	33.3	46.0	-12.7	Black
23	12.355M	27.0	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.3	50.0	-12.7	Black
24	12.454M	27.0	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.3	50.0	-12.7	Black
25	2.196M	23.2	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	33.1	46.0	-12.9	Black
26	3.314M	23.0	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	33.1	46.0	-12.9	Black
27	3.710M	22.9	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	33.0	46.0	-13.0	Black
28	2.425M	22.9	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	32.9	46.0	-13.1	Black
29	1.732M	23.0	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.9	46.0	-13.1	Black
30	1.685M	23.0	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.9	46.0	-13.1	Black
31	12.499M	26.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.9	50.0	-13.1	Black
32	4.862M	22.8	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0	32.9	46.0	-13.1	Black
33	4.262M	22.8	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.9	46.0	-13.1	Black
34	2.021M	22.9	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.8	46.0	-13.2	Black
35	2.842M	22.8	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	32.8	46.0	-13.2	Black
36	12.553M	26.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.8	50.0	-13.2	Black
37	2.451M	22.7	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	32.7	46.0	-13.3	Black
38	11.959M	26.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.7	50.0	-13.3	Black

39	3.352M	22.6	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	32.6	46.0	-13.4	Black
40	3.395M	22.6	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	32.6	46.0	-13.4	Black
41	1.549M	22.6	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.5	46.0	-13.5	Black
42	792.123k	22.5	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	32.5	46.0	-13.5	Black
43	2.668M	22.6	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.5	46.0	-13.5	Black
44	3.480M	22.5	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	32.5	46.0	-13.5	Black
45	3.055M	22.5	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	32.5	46.0	-13.5	Black
46	3.965M	22.3	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.4	46.0	-13.6	Black
47	3.271M	22.3	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.4	46.0	-13.6	Black
48	4.173M	22.3	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.4	46.0	-13.6	Black
49	12.211M	26.1	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.4	50.0	-13.6	Black
50	12.103M	26.1	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.4	50.0	-13.6	Black
51	862.662k	22.4	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	32.4	46.0	-13.6	Black
52	2.629M	22.5	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.4	46.0	-13.6	Black
53	1.983M	22.4	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.3	46.0	-13.7	Black
54	1.120M	22.4	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.3	46.0	-13.7	Black
55	945.249k	22.3	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	32.3	46.0	-13.7	Black
56	12.004M	26.0	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.3	50.0	-13.7	Black
57	4.900M	22.2	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0	32.3	46.0	-13.7	Black
58	3.442M	22.3	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	32.3	46.0	-13.7	Black
59	1.077M	22.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.2	46.0	-13.8	Black
60	1.043M	22.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.2	46.0	-13.8	Black
61	12.995M	25.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.2	50.0	-13.8	Black
62	12.950M	25.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.2	50.0	-13.8	Black
63	1.804M	22.2	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.1	46.0	-13.9	Black
64	541.237k	22.3	+9.5 +0.1	+0.1	+0.0	+0.1	+0.0	32.1	46.0	-13.9	Black

65	2.412M	22.1	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	32.1	46.0	-13.9	Black
66	12.752M	25.8	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.1	50.0	-13.9	Black
67	12.400M	25.8	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.1	50.0	-13.9	Black
68	3.999M	21.9	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.0	46.0	-14.0	Black
69	2.128M	22.1	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.0	46.0	-14.0	Black
70	13.292M	25.7	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.0	50.0	-14.0	Black
71	4.611M	21.7	+9.7 +0.2	+0.2	+0.1	+0.1	+0.0	32.0	46.0	-14.0	Black
72	992.029k	22.0	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.9	46.0	-14.1	Black
73	2.753M	21.9	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	31.9	46.0	-14.1	Black
74	3.225M	21.8	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	31.8	46.0	-14.2	Black
75	11.905M	25.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.8	50.0	-14.2	Black
76	4.041M	21.6	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.7	46.0	-14.3	Black
77	4.815M	21.6	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0	31.7	46.0	-14.3	Black
78	3.101M	21.7	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	31.7	46.0	-14.3	Black
79	894.216k	21.7	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	31.7	46.0	-14.3	Black
80	1.766M	21.8	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.7	46.0	-14.3	Black
81	11.851M	25.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.7	50.0	-14.3	Black
82	12.860M	25.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.7	50.0	-14.3	Black
83	11.716M	25.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.7	50.0	-14.3	Black
84	11.607M	25.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.7	50.0	-14.3	Black
85	11.661M	25.4	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.7	50.0	-14.3	Black
86	2.710M	21.7	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.6	46.0	-14.4	Black
87	829.210k	21.6	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	31.6	46.0	-14.4	Black
88	4.016M	21.5	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.6	46.0	-14.4	Black
89	13.148M	25.3	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.6	50.0	-14.4	Black
90	12.905M	25.3	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.6	50.0	-14.4	Black

91	2.081M	21.6	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.5	46.0	-14.5	Black
92	1.162M	21.6	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.5	46.0	-14.5	Black
93	2.480M	21.5	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	31.5	46.0	-14.5	Black
94	11.310M	25.2	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.5	50.0	-14.5	Black
95	2.991M	21.5	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	31.5	46.0	-14.5	Black
96	3.174M	21.4	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	31.4	46.0	-14.6	Black
97	3.918M	21.3	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.4	46.0	-14.6	Black
98	4.645M	21.1	+9.7 +0.2	+0.2	+0.1	+0.1	+0.0	31.4	46.0	-14.6	Black
99	2.578M	21.4	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.3	46.0	-14.7	Black
100	13.040M	25.0	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.3	50.0	-14.7	Black

CKC Laboratories, Inc Date: 8/20/2013 Time: 9:24:06 AM Bamb Labs WO#: 94232
Test Lead: Black 120V 60Hz Sequence#: 1



— Sweep Data
 ○ Peak Readings
 * Average Readings
 — 1 - 15.207 AC Mains - Average
 — Readings
 × QP Readings
 ▼ Ambient
 — 2 - 15.207 AC Mains - Quasi-peak

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

Customer: **Bam Labs**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **94232**
 Test Type: **Conducted Emissions**
 Equipment: **Household Air Mattress Inflator**
 Manufacturer: **Bam Labs**
 Model: **SIQ XX00DR**
 S/N: **CC 04 B4 00 00 8F**

Date: 8/20/2013
 Time: 9:28:29 AM
 Sequence#: 2
 Tested By: Hieu Song Nguyenpham
 120V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP01211	Attenuator	PE7002-10	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
	AN00493	50uH LISN-L1 (L) Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
T4	AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T5	ANP05258	High Pass Filter	HE9615-150K- 50-720B	12/6/2012	12/6/2014

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:

Conducted Emission Frequency Range: 150kHz to 30MHz 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 power of the chip =OdBm Gain of the antenna=1dBi The EUT is a fit device. It is placed on the 80 cm table. The EUT is set to continuously transmit. Note: Bluetooth is operated only.
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Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

Test Lead: White

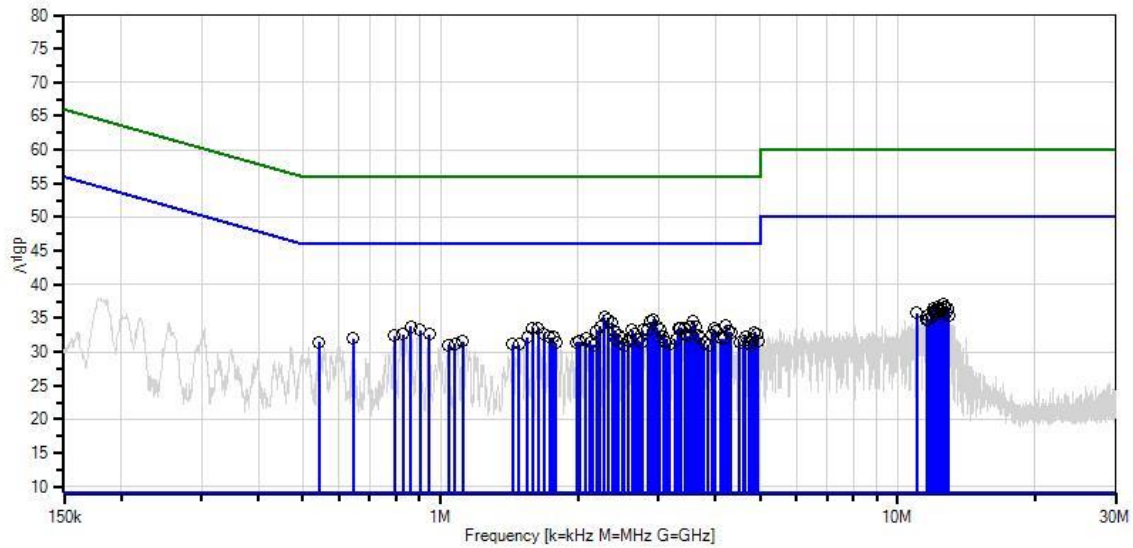
#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	2.281M	24.7	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	35.1	46.0	-10.9	White
2	2.927M	24.3	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	34.8	46.0	-11.2	White
3	2.327M	24.3	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	34.7	46.0	-11.3	White
4	3.573M	24.0	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	34.6	46.0	-11.4	White
5	2.880M	24.0	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	34.5	46.0	-11.5	White
6	2.378M	23.8	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	34.3	46.0	-11.7	White
7	4.216M	23.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	34.0	46.0	-12.0	White
8	859.753k	23.3	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	33.8	46.0	-12.2	White
9	3.527M	23.3	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	33.8	46.0	-12.2	White
10	3.616M	23.2	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.8	46.0	-12.2	White
11	2.238M	23.3	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.7	46.0	-12.3	White
12	2.974M	23.2	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.7	46.0	-12.3	White
13	1.587M	23.1	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	33.6	46.0	-12.4	White
14	1.634M	23.1	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	33.6	46.0	-12.4	White
15	3.352M	23.1	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	33.6	46.0	-12.4	White
16	3.314M	22.9	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.5	46.0	-12.5	White
17	3.425M	23.0	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	33.5	46.0	-12.5	White
18	3.965M	22.9	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.5	46.0	-12.5	White
19	2.842M	22.9	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.4	46.0	-12.6	White
20	2.774M	22.8	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.3	46.0	-12.7	White
21	902.721k	22.7	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	33.2	46.0	-12.8	White
22	2.625M	22.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.2	46.0	-12.8	White
23	3.025M	22.7	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.2	46.0	-12.8	White

24	12.598M	26.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.1	50.0	-12.9	White
25	2.412M	22.5	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	33.0	46.0	-13.0	White
26	2.196M	22.6	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.0	46.0	-13.0	White
27	4.267M	22.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.0	46.0	-13.0	White
28	3.999M	22.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.0	46.0	-13.0	White
29	4.318M	22.3	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.9	46.0	-13.1	White
30	4.862M	22.2	+9.5 +0.2	+0.2	+0.1	+0.7	+0.0	32.9	46.0	-13.1	White
31	1.685M	22.3	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.7	46.0	-13.3	White
32	12.652M	25.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.7	50.0	-13.3	White
33	2.668M	22.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.6	46.0	-13.4	White
34	945.249k	22.1	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	32.6	46.0	-13.4	White
35	829.210k	22.1	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	32.6	46.0	-13.4	White
36	12.211M	25.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.6	50.0	-13.4	White
37	4.909M	21.9	+9.5 +0.2	+0.2	+0.1	+0.7	+0.0	32.6	46.0	-13.4	White
38	3.442M	22.1	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	32.6	46.0	-13.4	White
39	3.667M	21.9	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.5	46.0	-13.5	White
40	2.455M	22.0	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	32.5	46.0	-13.5	White
41	12.301M	25.7	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.5	50.0	-13.5	White
42	3.922M	21.9	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.5	46.0	-13.5	White
43	3.476M	21.9	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	32.4	46.0	-13.6	White
44	792.123k	21.9	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	32.4	46.0	-13.6	White
45	11.959M	25.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.4	50.0	-13.6	White
46	12.905M	25.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.4	50.0	-13.6	White
47	12.499M	25.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.4	50.0	-13.6	White
48	3.072M	21.8	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	32.3	46.0	-13.7	White
49	4.645M	21.4	+9.7 +0.2	+0.2	+0.1	+0.7	+0.0	32.3	46.0	-13.7	White

50	12.346M	25.5	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.3	50.0	-13.7	White
51	1.549M	21.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.2	46.0	-13.8	White
52	1.732M	21.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.2	46.0	-13.8	White
53	1.766M	21.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.2	46.0	-13.8	White
54	3.714M	21.5	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.1	46.0	-13.9	White
55	12.004M	25.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.1	50.0	-13.9	White
56	12.391M	25.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.1	50.0	-13.9	White
57	2.493M	21.5	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	32.0	46.0	-14.0	White
58	2.081M	21.6	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.0	46.0	-14.0	White
59	643.773k	21.5	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	32.0	46.0	-14.0	White
60	12.058M	25.2	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.0	50.0	-14.0	White
61	4.169M	21.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.0	46.0	-14.0	White
62	4.109M	21.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.0	46.0	-14.0	White
63	4.819M	21.2	+9.5 +0.2	+0.2	+0.1	+0.7	+0.0	31.9	46.0	-14.1	White
64	12.752M	25.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	35.9	50.0	-14.1	White
65	3.271M	21.2	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	31.8	46.0	-14.2	White
66	2.710M	21.4	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.8	46.0	-14.2	White
67	2.429M	21.3	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	31.8	46.0	-14.2	White
68	12.256M	25.0	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	35.8	50.0	-14.2	White
69	12.103M	25.0	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	35.8	50.0	-14.2	White
70	11.022M	24.9	+9.7 +0.1	+0.3	+0.1	+0.7	+0.0	35.8	50.0	-14.2	White
71	3.097M	21.2	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	31.7	46.0	-14.3	White
72	4.611M	20.8	+9.7 +0.2	+0.2	+0.1	+0.7	+0.0	31.7	46.0	-14.3	White
73	4.960M	21.0	+9.5 +0.2	+0.2	+0.1	+0.7	+0.0	31.7	46.0	-14.3	White
74	2.017M	21.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.6	46.0	-14.4	White
75	1.120M	21.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.6	46.0	-14.4	White

76	12.427M	24.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	35.6	50.0	-14.4	White
77	2.583M	21.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.6	46.0	-14.4	White
78	2.128M	21.1	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.5	46.0	-14.5	White
79	1.983M	21.1	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.5	46.0	-14.5	White
80	4.518M	20.7	+9.7 +0.2	+0.2	+0.1	+0.6	+0.0	31.5	46.0	-14.5	White
81	2.753M	21.0	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	31.5	46.0	-14.5	White
82	3.123M	20.9	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	31.4	46.0	-14.6	White
83	542.691k	21.1	+9.5 +0.1	+0.1	+0.0	+0.6	+0.0	31.4	46.0	-14.6	White
84	12.950M	24.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	35.4	50.0	-14.6	White
85	11.616M	24.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	35.4	50.0	-14.6	White
86	1.787M	20.9	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.3	46.0	-14.7	White
87	3.773M	20.7	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	31.3	46.0	-14.7	White
88	4.730M	20.5	+9.6 +0.2	+0.2	+0.1	+0.7	+0.0	31.3	46.0	-14.7	White
89	1.077M	20.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.2	46.0	-14.8	White
90	3.174M	20.7	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	31.2	46.0	-14.8	White
91	1.439M	20.7	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.1	46.0	-14.9	White
92	1.485M	20.7	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.1	46.0	-14.9	White
93	11.860M	24.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	35.1	50.0	-14.9	White
94	2.153M	20.6	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.0	46.0	-15.0	White
95	1.043M	20.6	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	31.0	46.0	-15.0	White
96	4.773M	20.2	+9.6 +0.2	+0.2	+0.1	+0.7	+0.0	31.0	46.0	-15.0	White
97	3.854M	20.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	31.0	46.0	-15.0	White
98	2.527M	20.5	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	30.9	46.0	-15.1	White
99	11.562M	24.0	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	34.8	50.0	-15.2	White
100	11.661M	24.0	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	34.8	50.0	-15.2	White

CKC Laboratories, Inc Date: 8/20/2013 Time: 9:28:29 AM Bamb Labs WO#: 94232
Test Lead: White 120V 60Hz Sequence#: 2



— Sweep Data	— Readings
○ Peak Readings	× QP Readings
* Average Readings	▼ Ambient
— 1 - 15.207 AC Mains - Average	— 2 - 15.207 AC Mains - Quasi-peak

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

Customer: **Bam Labs**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **94232**
 Test Type: **Conducted Emissions**
 Equipment: **Household Air Mattress Inflator**
 Manufacturer: **Bam Labs**
 Model: **SIQ XX00DR**
 S/N: **CC 04 B4 00 00 8F**

Date: 8/23/2013
 Time: 10:41:40 AM
 Sequence#: 103
 Tested By: Hieu Song Nguyenpham
 120V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP01211	Attenuator	PE7002-10	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
T4	AN00493	50uH LISN-L1 (L) Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T5	ANP05258	High Pass Filter	HE9615-150K- 50-720B	12/6/2012	12/6/2014

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:

Conducted Emission Frequency Range: 150kHz to 30MHz High Clock: 32 MHz 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: 2.405GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHZ RF output power of the chip = 1.19dBm (DC) Gain of the antenna=1dBi 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.

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

Test Lead: Black

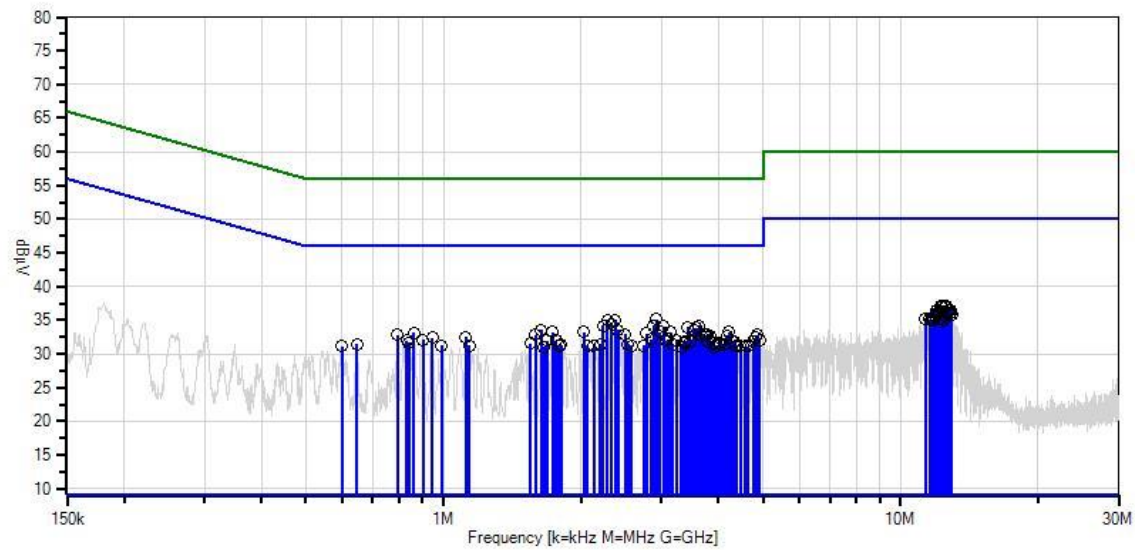
#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	2.927M	25.2	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	35.2	46.0	-10.8	Black
2	2.281M	25.1	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	35.0	46.0	-11.0	Black
3	2.378M	24.9	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	34.9	46.0	-11.1	Black
4	2.332M	24.4	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	34.3	46.0	-11.7	Black
5	2.234M	24.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	34.2	46.0	-11.8	Black
6	2.884M	24.2	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	34.2	46.0	-11.8	Black
7	3.620M	24.1	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	34.2	46.0	-11.8	Black
8	3.029M	24.1	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	34.1	46.0	-11.9	Black
9	3.425M	24.0	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	34.0	46.0	-12.0	Black
10	3.573M	23.8	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	33.9	46.0	-12.1	Black
11	1.638M	23.6	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	33.6	46.0	-12.4	Black
12	2.408M	23.6	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	33.6	46.0	-12.4	Black
13	3.531M	23.6	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	33.6	46.0	-12.4	Black
14	3.140M	23.3	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	33.3	46.0	-12.7	Black
15	4.220M	23.2	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	33.3	46.0	-12.7	Black
16	2.030M	23.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	33.2	46.0	-12.8	Black
17	1.732M	23.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	33.2	46.0	-12.8	Black
18	2.978M	23.2	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	33.2	46.0	-12.8	Black
19	12.616M	26.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.2	50.0	-12.8	Black
20	12.517M	26.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.2	50.0	-12.8	Black
21	861.206k	23.1	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	33.1	46.0	-12.9	Black
22	12.319M	26.8	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.1	50.0	-12.9	Black
23	2.778M	23.0	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	33.0	46.0	-13.0	Black

24	12.265M	26.7	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	37.0	50.0	-13.0	Black
25	2.497M	22.9	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	32.9	46.0	-13.1	Black
26	3.718M	22.8	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.9	46.0	-13.1	Black
27	3.790M	22.8	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.9	46.0	-13.1	Black
28	1.587M	22.8	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	32.8	46.0	-13.2	Black
29	792.122k	22.8	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	32.8	46.0	-13.2	Black
30	4.866M	22.7	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0	32.8	46.0	-13.2	Black
31	3.748M	22.7	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.8	46.0	-13.2	Black
32	3.671M	22.6	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.7	46.0	-13.3	Black
33	3.824M	22.6	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.7	46.0	-13.3	Black
34	4.173M	22.6	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.7	46.0	-13.3	Black
35	12.652M	26.2	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.5	50.0	-13.5	Black
36	1.120M	22.6	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.5	46.0	-13.5	Black
37	12.914M	26.2	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.5	50.0	-13.5	Black
38	12.761M	26.2	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.5	50.0	-13.5	Black
39	945.249k	22.4	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	32.4	46.0	-13.6	Black
40	4.819M	22.3	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0	32.4	46.0	-13.6	Black
41	11.968M	26.1	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.4	50.0	-13.6	Black
42	12.364M	26.0	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.3	50.0	-13.7	Black
43	2.850M	22.2	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	32.2	46.0	-13.8	Black
44	3.097M	22.2	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	32.2	46.0	-13.8	Black
45	12.121M	25.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.2	50.0	-13.8	Black
46	902.721k	22.1	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	32.1	46.0	-13.9	Black
47	4.917M	22.0	+9.5 +0.2	+0.2	+0.1	+0.1	+0.0	32.1	46.0	-13.9	Black
48	12.013M	25.8	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.1	50.0	-13.9	Black
49	4.267M	21.9	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	32.0	46.0	-14.0	Black

50	12.869M	25.7	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	36.0	50.0	-14.0	Black
51	1.685M	22.1	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.0	46.0	-14.0	Black
52	831.391k	22.0	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	32.0	46.0	-14.0	Black
53	1.766M	22.1	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	32.0	46.0	-14.0	Black
54	3.229M	22.0	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	32.0	46.0	-14.0	Black
55	3.063M	22.0	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	32.0	46.0	-14.0	Black
56	3.399M	21.9	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	31.9	46.0	-14.1	Black
57	4.322M	21.8	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.9	46.0	-14.1	Black
58	3.467M	21.8	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	31.8	46.0	-14.2	Black
59	3.357M	21.8	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	31.8	46.0	-14.2	Black
60	3.773M	21.7	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.8	46.0	-14.2	Black
61	12.959M	25.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.8	50.0	-14.2	Black
62	4.764M	21.6	+9.6 +0.2	+0.2	+0.1	+0.1	+0.0	31.8	46.0	-14.2	Black
63	839.390k	21.7	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	31.7	46.0	-14.3	Black
64	3.374M	21.7	+9.5 +0.1	+0.2	+0.1	+0.1	+0.0	31.7	46.0	-14.3	Black
65	4.003M	21.6	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.7	46.0	-14.3	Black
66	3.875M	21.5	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.6	46.0	-14.4	Black
67	1.549M	21.7	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.6	46.0	-14.4	Black
68	12.472M	25.3	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.6	50.0	-14.4	Black
69	11.869M	25.3	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.6	50.0	-14.4	Black
70	645.953k	21.5	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	31.5	46.0	-14.5	Black
71	4.041M	21.4	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.5	46.0	-14.5	Black
72	2.200M	21.5	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.4	46.0	-14.6	Black
73	2.532M	21.5	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.4	46.0	-14.6	Black
74	3.174M	21.4	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	31.4	46.0	-14.6	Black
75	1.809M	21.4	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.3	46.0	-14.7	Black

76	4.114M	21.2	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.3	46.0	-14.7	Black
77	11.328M	25.0	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.3	50.0	-14.7	Black
78	2.068M	21.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Black
79	2.583M	21.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Black
80	1.787M	21.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Black
81	992.029k	21.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Black
82	1.141M	21.3	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Black
83	2.744M	21.2	+9.6 +0.1	+0.2	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Black
84	11.571M	24.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.2	50.0	-14.8	Black
85	12.184M	24.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.2	50.0	-14.8	Black
86	4.467M	21.1	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.2	46.0	-14.8	Black
87	3.969M	21.1	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.2	46.0	-14.8	Black
88	4.364M	21.1	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.2	46.0	-14.8	Black
89	2.136M	21.2	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	31.1	46.0	-14.9	Black
90	599.412k	21.1	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	31.1	46.0	-14.9	Black
91	4.569M	20.8	+9.7 +0.2	+0.2	+0.1	+0.1	+0.0	31.1	46.0	-14.9	Black
92	12.220M	24.8	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.1	50.0	-14.9	Black
93	4.649M	20.8	+9.7 +0.2	+0.2	+0.1	+0.1	+0.0	31.1	46.0	-14.9	Black
94	3.318M	20.9	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.0	46.0	-15.0	Black
95	1.660M	21.0	+9.7 +0.1	+0.1	+0.0	+0.1	+0.0	31.0	46.0	-15.0	Black
96	12.409M	24.7	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	35.0	50.0	-15.0	Black
97	3.918M	20.9	+9.6 +0.1	+0.2	+0.1	+0.1	+0.0	31.0	46.0	-15.0	Black
98	11.670M	24.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	34.9	50.0	-15.1	Black
99	11.716M	24.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	34.9	50.0	-15.1	Black
100	11.824M	24.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	34.9	50.0	-15.1	Black

CKC Laboratories, Inc. Date: 8/23/2013 Time: 10:41:40 AM Bamb Labs WO#: 94232
 Test Lead: Black 120V 60Hz Sequence#: 103



— Sweep Data	— Readings
○ Peak Readings	× QP Readings
* Average Readings	▼ Ambient
— 1 - 15.207 AC Mains - Average	— 2 - 15.207 AC Mains - Quasi-peak

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

Customer: **Bam Labs**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **94232**
 Test Type: **Conducted Emissions**
 Equipment: **Household Air Mattress Inflator**
 Manufacturer: **Bam Labs**
 Model: **SIQ XX00DR**
 S/N: **CC 04 B4 00 00 8F**

Date: 8/23/2013
 Time: 10:46:36 AM
 Sequence#: 104
 Tested By: Hieu Song Nguyenpham
 120V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP01211	Attenuator	PE7002-10	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
	AN00493	50uH LISN-L1 (L) Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
T4	AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T5	ANP05258	High Pass Filter	HE9615-150K- 50-720B	12/6/2012	12/6/2014

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:

Conducted Emission Frequency Range: 150kHz to 30MHz High Clock: 32 MHz 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: 2.405GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHz RF output power of the chip = 1.19dBm (DC) Gain of the antenna=1dBi 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.

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

Test Lead: White

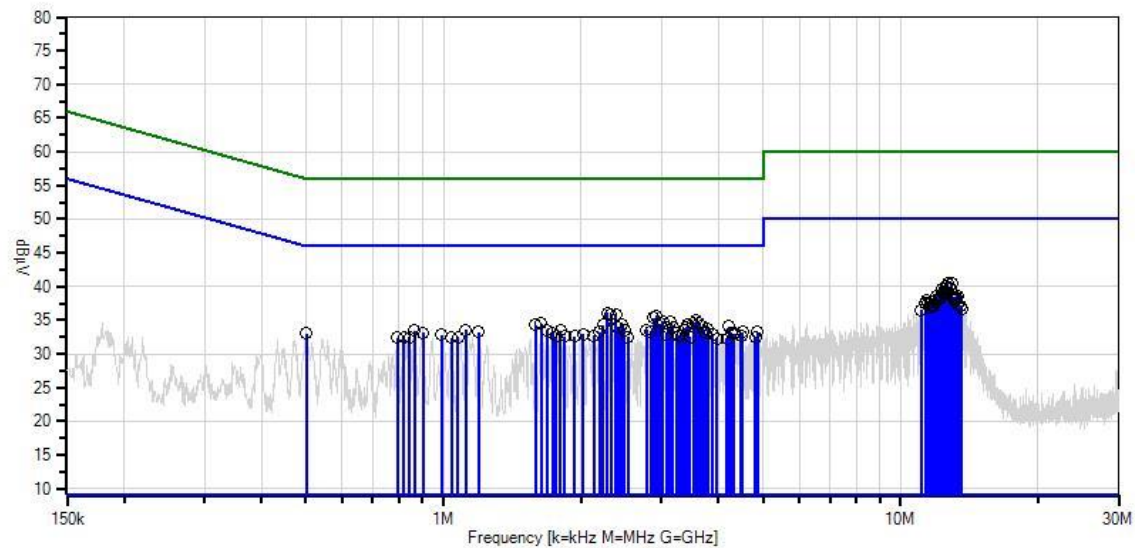
#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	12.661M	29.7	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	40.5	50.0	-9.5	White
2	12.959M	29.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	40.4	50.0	-9.6	White
3	2.285M	25.7	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	36.1	46.0	-9.9	White
4	12.607M	29.2	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	40.0	50.0	-10.0	White
5	2.327M	25.5	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	35.9	46.0	-10.1	White
6	2.383M	25.4	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	35.9	46.0	-10.1	White
7	12.761M	29.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	39.9	50.0	-10.1	White
8	2.927M	25.2	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	35.7	46.0	-10.3	White
9	12.914M	28.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	39.7	50.0	-10.3	White
10	12.310M	28.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	39.6	50.0	-10.4	White
11	2.884M	24.9	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	35.4	46.0	-10.6	White
12	12.409M	28.5	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	39.3	50.0	-10.7	White
13	12.463M	28.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	39.1	50.0	-10.9	White
14	12.716M	28.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	39.1	50.0	-10.9	White
15	3.573M	24.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	35.0	46.0	-11.0	White
16	12.571M	28.2	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	39.0	50.0	-11.0	White
17	3.025M	24.3	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	34.8	46.0	-11.2	White
18	3.140M	24.2	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	34.7	46.0	-11.3	White
19	3.620M	24.0	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	34.6	46.0	-11.4	White
20	3.527M	24.1	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	34.6	46.0	-11.4	White
21	12.013M	27.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.6	50.0	-11.4	White
22	13.301M	27.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.6	50.0	-11.4	White
23	12.229M	27.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.6	50.0	-11.4	White

24	2.978M	24.0	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	34.5	46.0	-11.5	White
25	1.638M	24.0	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	34.5	46.0	-11.5	White
26	13.013M	27.7	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.5	50.0	-11.5	White
27	11.968M	27.7	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.5	50.0	-11.5	White
28	2.451M	23.9	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	34.4	46.0	-11.6	White
29	13.211M	27.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.4	50.0	-11.6	White
30	2.234M	23.9	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	34.3	46.0	-11.7	White
31	1.592M	23.8	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	34.3	46.0	-11.7	White
32	3.425M	23.8	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	34.3	46.0	-11.7	White
33	13.157M	27.5	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.3	50.0	-11.7	White
34	12.265M	27.5	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.3	50.0	-11.7	White
35	12.121M	27.4	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.2	50.0	-11.8	White
36	13.058M	27.4	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.2	50.0	-11.8	White
37	13.256M	27.4	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.2	50.0	-11.8	White
38	3.671M	23.5	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	34.1	46.0	-11.9	White
39	4.220M	23.5	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	34.1	46.0	-11.9	White
40	2.412M	23.5	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	34.0	46.0	-12.0	White
41	3.399M	23.5	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	34.0	46.0	-12.0	White
42	11.364M	27.2	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	38.0	50.0	-12.0	White
43	3.174M	23.4	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.9	46.0	-12.1	White
44	3.097M	23.4	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.9	46.0	-12.1	White
45	13.112M	27.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.9	50.0	-12.1	White
46	11.860M	27.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.9	50.0	-12.1	White
47	3.790M	23.2	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.8	46.0	-12.2	White
48	11.616M	26.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.7	50.0	-12.3	White
49	11.770M	26.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.7	50.0	-12.3	White

50	3.357M	23.1	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	33.6	46.0	-12.4	White
51	1.685M	23.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.6	46.0	-12.4	White
52	1.120M	23.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.6	46.0	-12.4	White
53	2.778M	23.1	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.6	46.0	-12.4	White
54	2.485M	23.1	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	33.6	46.0	-12.4	White
55	1.804M	23.1	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.5	46.0	-12.5	White
56	863.389k	23.0	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	33.5	46.0	-12.5	White
57	11.472M	26.7	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.5	50.0	-12.5	White
58	11.319M	26.7	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.5	50.0	-12.5	White
59	2.842M	22.9	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.4	46.0	-12.6	White
60	3.718M	22.8	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.4	46.0	-12.6	White
61	13.346M	26.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.4	50.0	-12.6	White
62	2.196M	22.9	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.3	46.0	-12.7	White
63	4.518M	22.5	+9.7 +0.2	+0.2	+0.1	+0.6	+0.0	33.3	46.0	-12.7	White
64	4.866M	22.6	+9.5 +0.2	+0.2	+0.1	+0.7	+0.0	33.3	46.0	-12.7	White
65	1.192M	22.8	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.2	46.0	-12.8	White
66	13.553M	26.4	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.2	50.0	-12.8	White
67	1.732M	22.7	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	33.1	46.0	-12.9	White
68	902.721k	22.6	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	33.1	46.0	-12.9	White
69	4.258M	22.5	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.1	46.0	-12.9	White
70	11.824M	26.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.1	50.0	-12.9	White
71	11.725M	26.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.1	50.0	-12.9	White
72	3.229M	22.5	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	33.0	46.0	-13.0	White
73	501.240k	22.5	+9.7 +0.1	+0.1	+0.0	+0.6	+0.0	33.0	46.0	-13.0	White
74	3.748M	22.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.0	46.0	-13.0	White
75	11.797M	26.2	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	37.0	50.0	-13.0	White

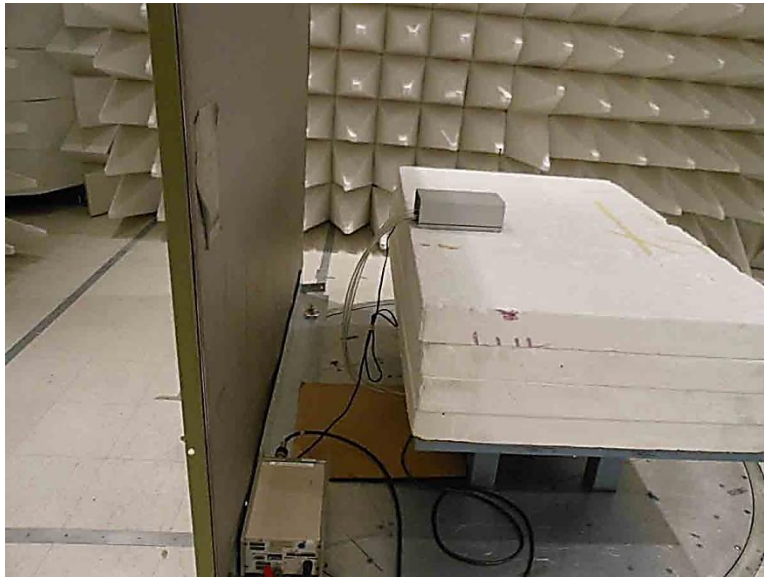
76	4.322M	22.4	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	33.0	46.0	-13.0	White
77	2.021M	22.5	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.9	46.0	-13.1	White
78	3.076M	22.4	+9.6 +0.1	+0.2	+0.0	+0.6	+0.0	32.9	46.0	-13.1	White
79	11.580M	26.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.9	50.0	-13.1	White
80	992.029k	22.4	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.8	46.0	-13.2	White
81	3.875M	22.2	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.8	46.0	-13.2	White
82	3.276M	22.1	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.7	46.0	-13.3	White
83	2.132M	22.3	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.7	46.0	-13.3	White
84	13.607M	25.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	36.7	50.0	-13.3	White
85	3.318M	22.1	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.7	46.0	-13.3	White
86	1.838M	22.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.6	46.0	-13.4	White
87	1.766M	22.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.6	46.0	-13.4	White
88	4.475M	21.8	+9.7 +0.2	+0.2	+0.1	+0.6	+0.0	32.6	46.0	-13.4	White
89	1.936M	22.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.6	46.0	-13.4	White
90	2.536M	22.1	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.5	46.0	-13.5	White
91	1.077M	22.1	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.5	46.0	-13.5	White
92	843.027k	22.0	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	32.5	46.0	-13.5	White
93	11.076M	25.6	+9.7 +0.1	+0.3	+0.1	+0.7	+0.0	36.5	50.0	-13.5	White
94	4.819M	21.8	+9.5 +0.2	+0.2	+0.1	+0.7	+0.0	32.5	46.0	-13.5	White
95	3.463M	22.0	+9.5 +0.1	+0.2	+0.1	+0.6	+0.0	32.5	46.0	-13.5	White
96	792.123k	21.9	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	32.4	46.0	-13.6	White
97	819.757k	21.9	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	32.4	46.0	-13.6	White
98	1.043M	22.0	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	32.4	46.0	-13.6	White
99	3.965M	21.7	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.3	46.0	-13.7	White
100	4.173M	21.7	+9.6 +0.1	+0.2	+0.1	+0.6	+0.0	32.3	46.0	-13.7	White

CKC Laboratories, Inc. Date: 8/23/2013 Time: 10:46:36 AM Bamb Labs WO#: 94232
Test Lead: White 120V 60Hz Sequence#: 104



— Sweep Data	— Readings
○ Peak Readings	× QP Readings
* Average Readings	▼ Ambient
— 1 - 15.207 AC Mains - Average	— 2 - 15.207 AC Mains - Quasi-peak

Test Setup Photos



15.247(b)(3) RF Power Output

Test Conditions / Setup

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

Customer: **Bam Labs**

Specification: **15.247(b)(3) Fundamental Readings**

Work Order #: **94232**

Date: 8/20/2013

Test Type: **Radiated Scan**

Time: 11:43:57

Equipment: **Household Air Mattress Inflator**

Sequence#: 5

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

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:

Fundamental of the EUT
 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
 Low Frequency: 2.402GHz
 Middle Frequency: 2.440GHz
 High Frequency: 2.480GHz
 RF output power of the chip= 0dBm
 Gain of the antenna = 1dBi
 The EUT is a fixed device. It is placed on the 80 cm table and 3 meter away from the measuring antenna. The EUT is set to continuously transmit.
 RBW=1MHz, VBW=3MHz
Note: Bluetooth is operated only.

Test Data

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

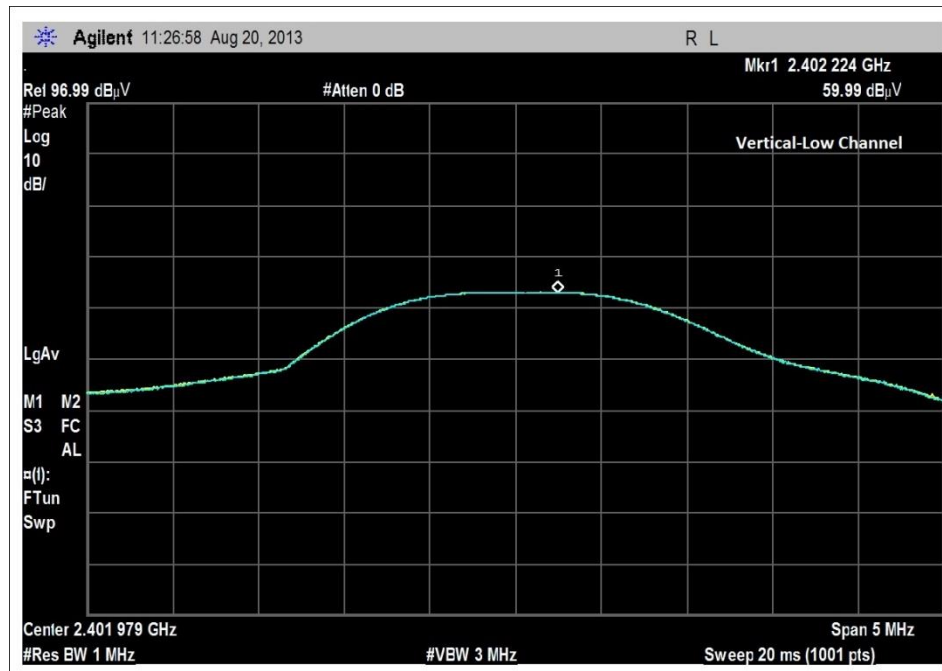
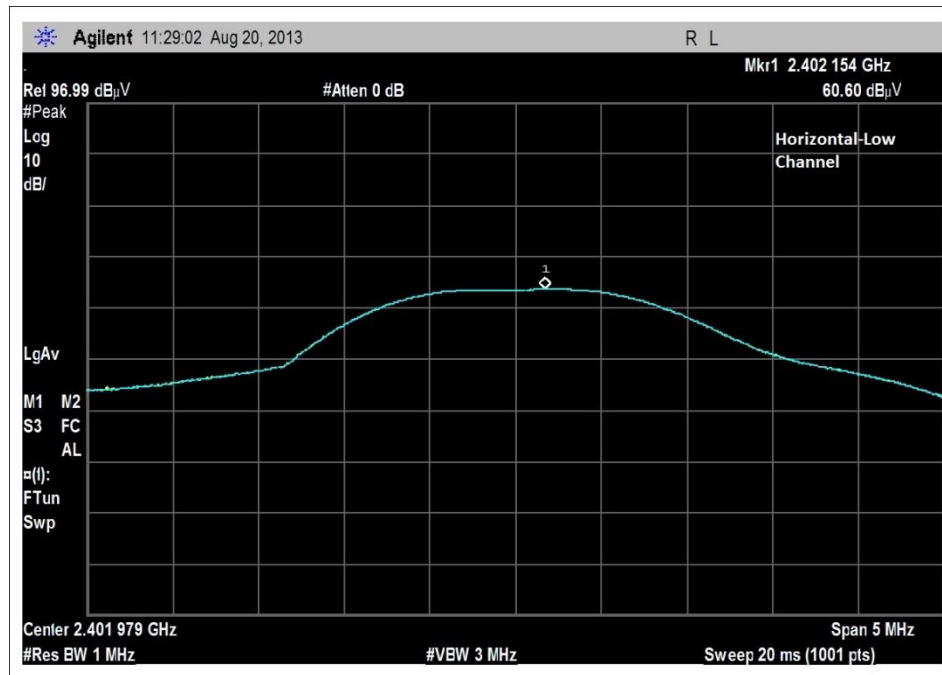
Test Distance: 3 Meters

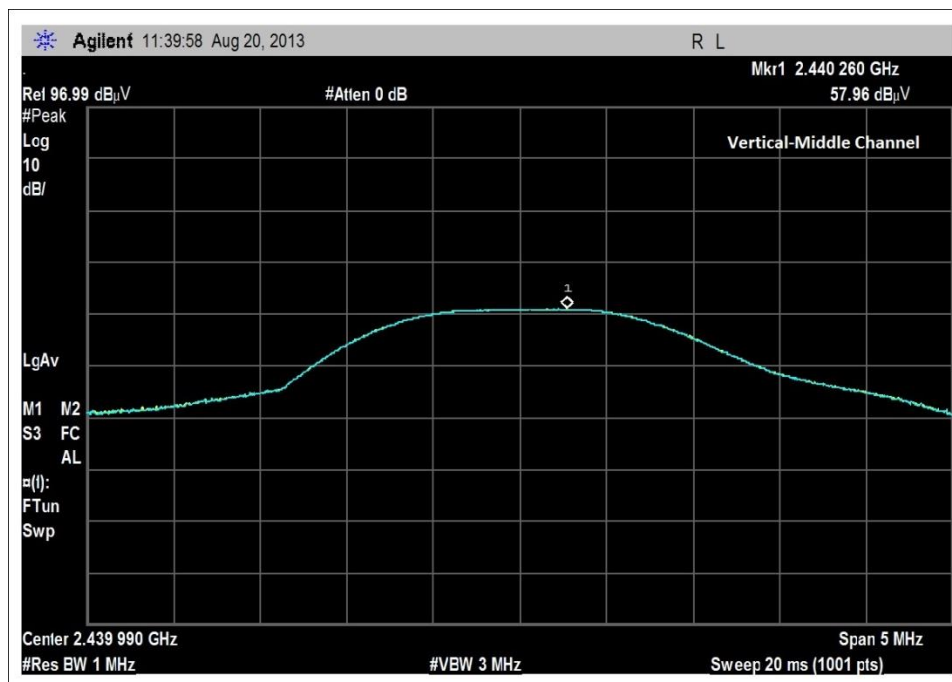
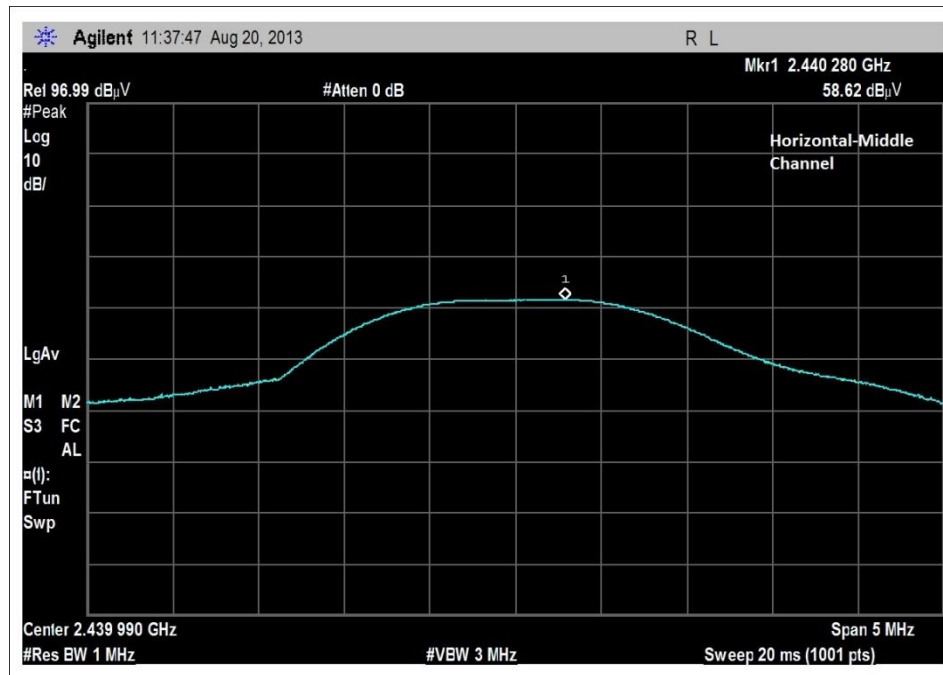
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB		Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2402.169M	60.6	+28.6	+1.1	+2.7		+0.0	93.0	125.2	-32.2	Horiz
									Low Channel		
2	2402.169M	60.0	+28.6	+1.1	+2.7		+0.0	92.4	125.2	-32.8	Vert
									Low Channel		
3	2440.280M	58.6	+28.7	+1.1	+2.7		+0.0	91.1	125.2	-34.1	Horiz
									Middle Channel		
4	2440.280M	58.0	+28.7	+1.1	+2.7		+0.0	90.5	125.2	-34.7	Vert
									Middle Channel		
5	2479.728M	55.3	+28.9	+1.1	+2.7		+0.0	88.0	125.2	-37.2	Vert
									High Channel		
6	2479.728M	55.1	+28.9	+1.1	+2.7		+0.0	87.8	125.2	-37.4	Horiz
									High Channel		

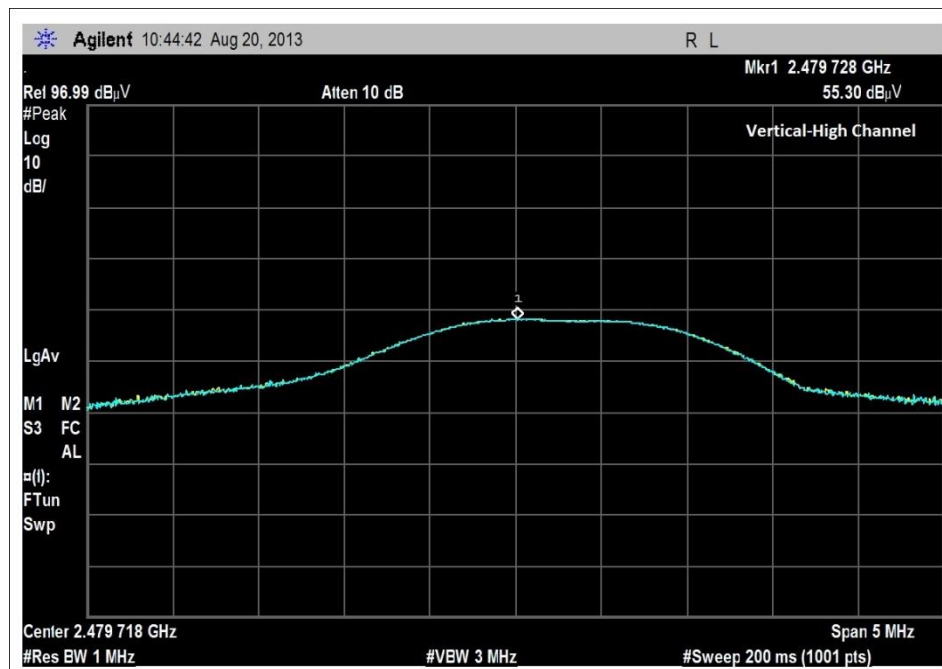
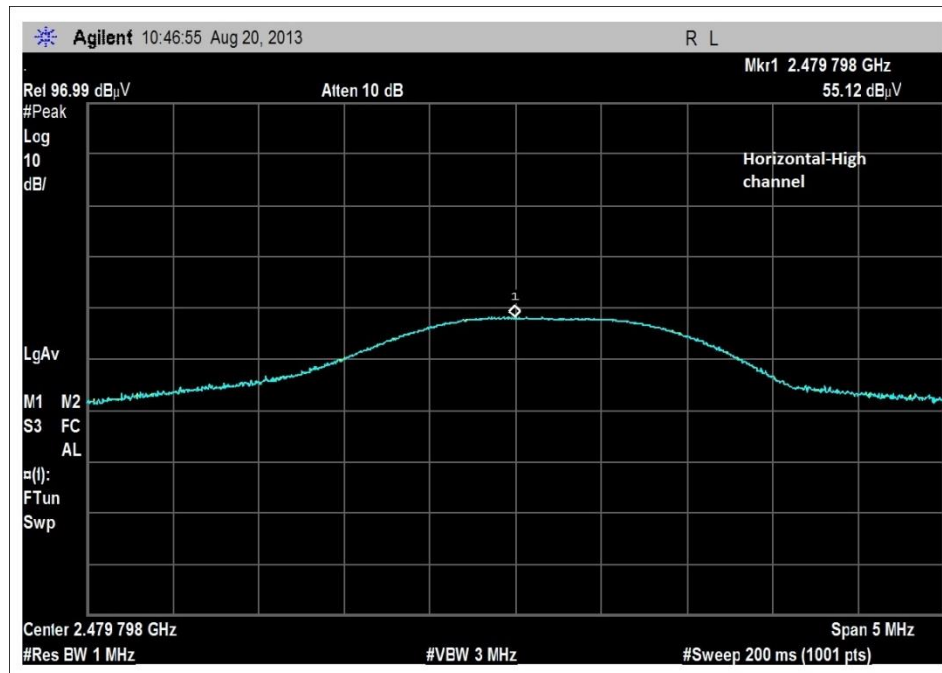
Frequency (MHz)	Measured Power in Watts	Power Limit in Watts	Pass/Fail
2402.169 Low Channel (Horizontal)	0.000476	1.00	Pass
2402.169 Low Channel (Vertical)	0.000414	1.00	Pass
2440.280 Middle Channel (Horizontal)	0.000307	1.00	Pass
2440.280 Middle Channel (Vertical)	0.000267	1.00	Pass
2479.728 High Channel (Horizontal)	0.000144	1.00	Pass
2479.728 High Channel (Vertical)	0.000150	1.00	Pass

A formula converts Radiated Method to Conducted Method.

$\text{dBm (conducted power)} = \text{dBuV/m} + 20 \cdot \text{LOG D} - 104.77 - \text{Gain (dBi)}$







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

Customer: **Bam Labs**
 Specification: **15.247(b)(3) Fundamental Readings**
 Work Order #: **94232** Date: 8/21/2013
 Test Type: **Radiated Scan** Time: 09:59:11
 Equipment: **Household Air Mattress Inflator** Sequence#: 6
 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

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:

Fundamental of the EUT

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
 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

RBW=3MHz
 VBW=8MHz

The EUT is a fixed device. It is placed on the 80 cm table and 3 meters away from the measuring antenna. The EUT is set to continuously transmit.

Note: Zigbee is operated only.

+ Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

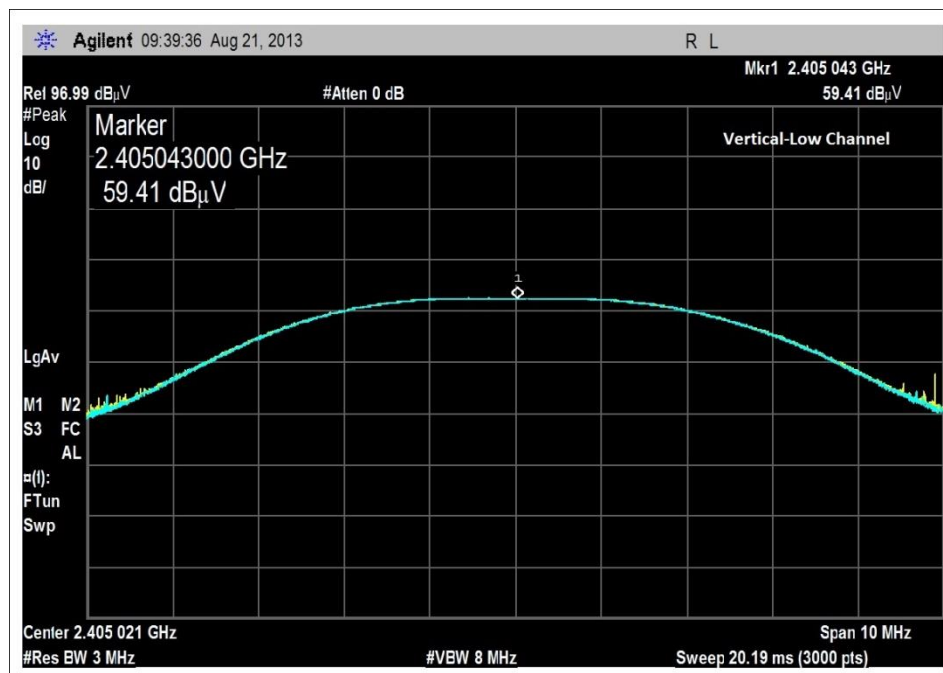
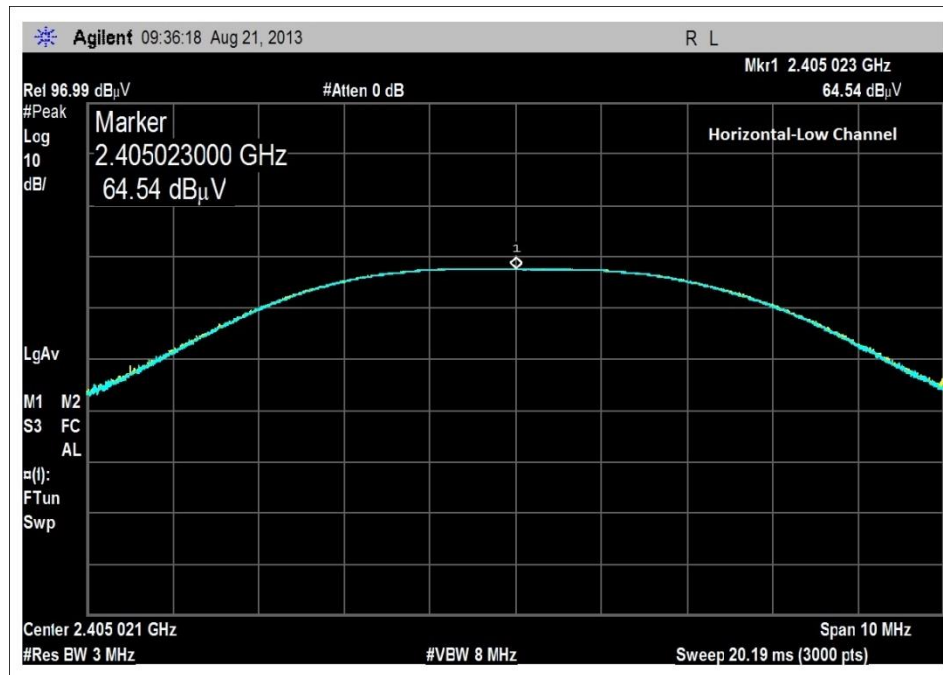
Test Distance: 3 Meters

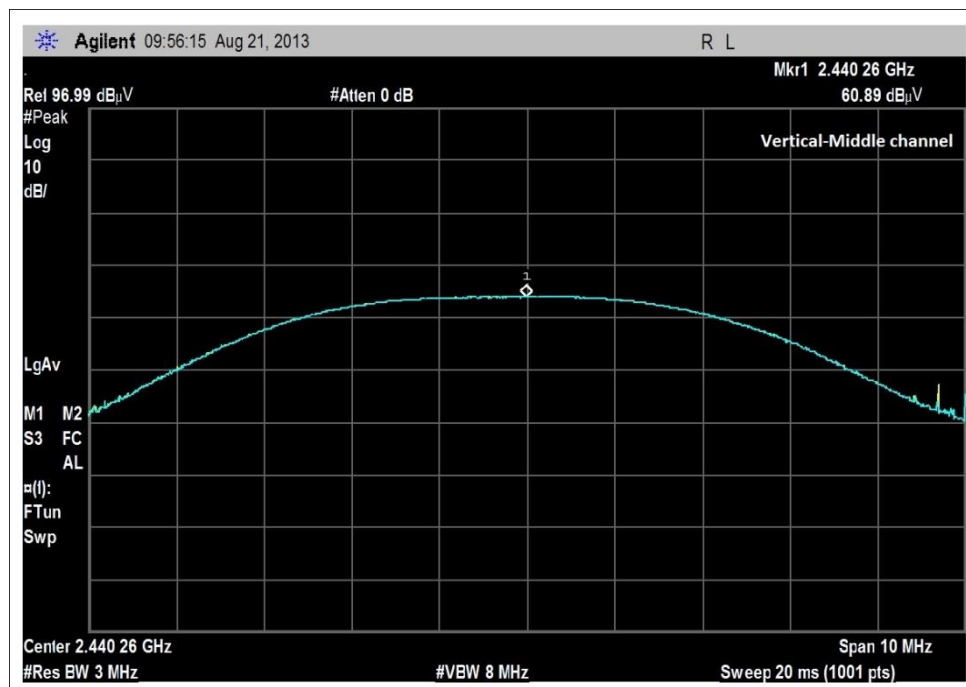
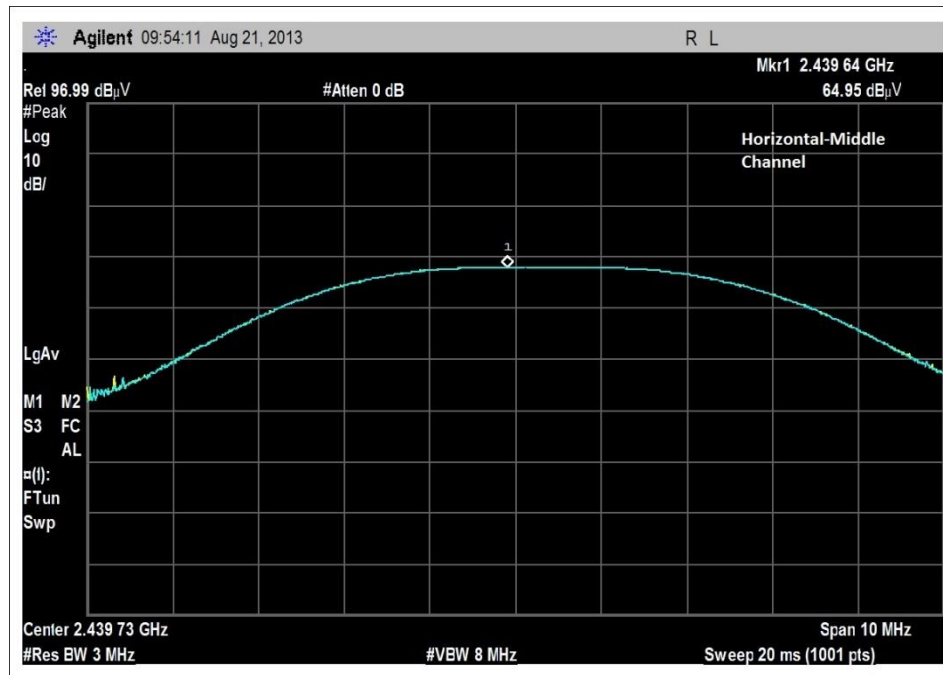
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2480.490M	64.9	+28.9	+1.1	+2.7		+0.0	97.6	125.2	-27.6	Horiz
									High Channel		
2	2439.640M	65.0	+28.7	+1.1	+2.7		+0.0	97.5	125.2	-27.7	Horiz
									Middle Channel		
3	2405.023M	64.5	+28.6	+1.1	+2.7		+0.0	96.9	125.2	-28.3	Horiz
									Low Channel		
4	2439.640M	60.9	+28.7	+1.1	+2.7		+0.0	93.4	125.2	-31.8	Vert
									Middle channel		
5	2405.023M	59.5	+28.6	+1.1	+2.7		+0.0	91.9	125.2	-33.3	Vert
									Low channel		
6	2480.490M	58.3	+28.9	+1.1	+2.7		+0.0	91.0	125.2	-34.2	Vert
									High Channel		

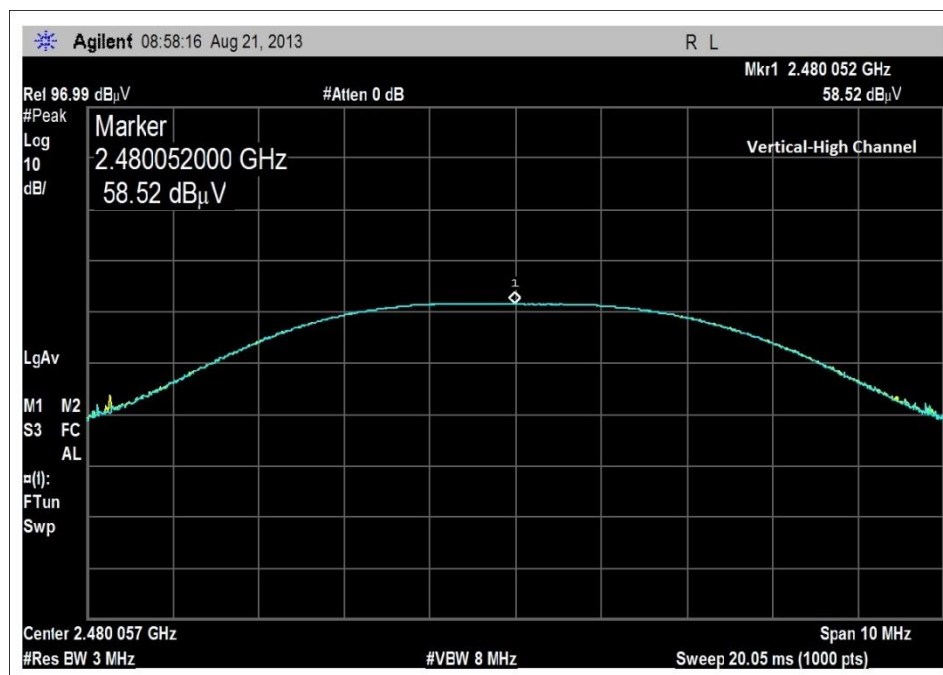
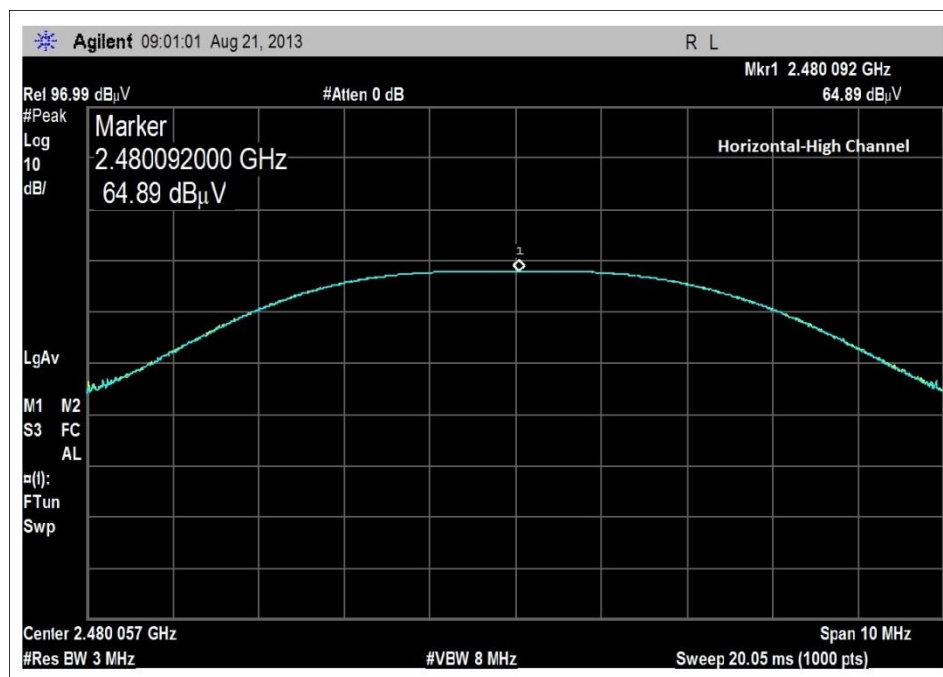
Frequency (MHz)	Measured Power in Watts	Power Limit in Watts	Pass/Fail
2405.023 Low Channel (Horizontal)	0.001167	1.00	Pass
2405.023 Low Channel (Vertical)	0.000369	1.00	Pass
2439.640 Middle Channel (Horizontal)	0.001340	1.00	Pass
2439.640 Middle Channel (Vertical)	0.000521	1.00	Pass
2480.490 High Channel (Horizontal)	0.001372	1.00	Pass
2480.490 High Channel (Vertical)	0.000300	1.00	Pass

A formula converts Radiated Method to Conducted Method

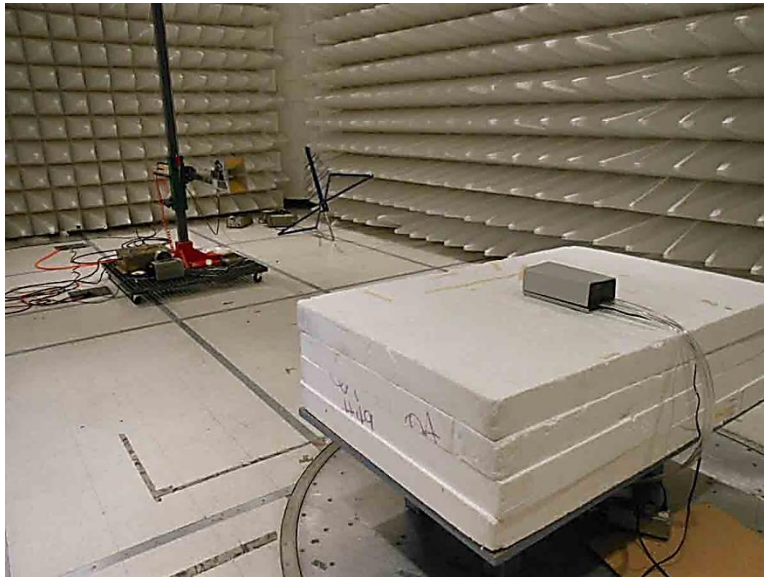
$\text{dBm (conducted power)} = \text{dBuV/m} + 20 \cdot \text{LOG D} - 104.77 - \text{Gain (dBi)}$







Test Setup Photos



15.31(e) Voltage Variations

Test Conditions / Setup

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

Customer: **Bam Labs**

Specification: **15.31e**

Work Order #: **94232**

Date: 8/20/2013

Test Type: **Radiated Scan**

Time: 11:43:57

Equipment: **Household Air Mattress Inflator**

Sequence#: 5

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

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:

15.31e
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
Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ
RF output power of the chip= 0dBm
Gain of the antenna = 1dBi
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.

15.31e: Adjust the voltage +/- 15% (102V, 138V), the Fundamental of the EUT is not changing.

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

Customer: **Bam Labs**

Specification: **15.31e**

Work Order #: **94232**

Date: 8/21/2013

Test Type: **Radiated Scan**

Time: 09:59:11

Equipment: **Household Air Mattress Inflator**

Sequence#: 6

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

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:

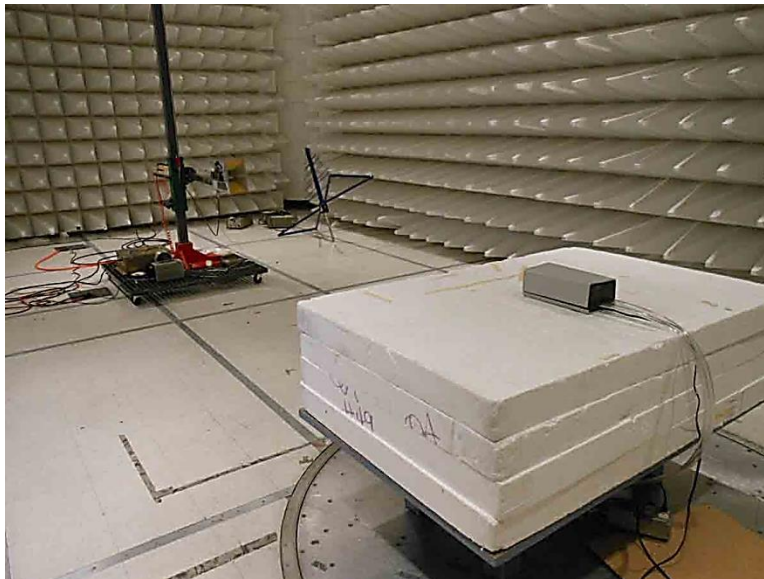
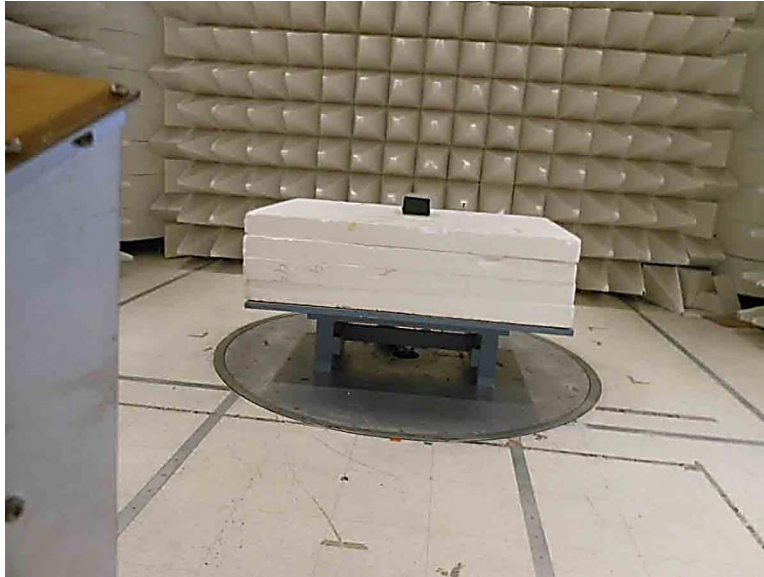
15.31e
 High Clock: 32MHz
 Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2
 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

 Transmitter operating frequency: 2.4GHz
 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
 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.

15.31e: Adjust the voltage +/- 15% (102V, 138V), the Fundamental of the EUT is not changing.

Test Setup Photos



-6dBc Occupied Bandwidth

Bluetooth Test Conditions / Setup

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

Customer: **Bam Labs**

Specification: **OBW setup**

Work Order #: **94232**

Date: 8/20/2013

Test Type: **Radiated Scan**

Time: 11:43:57

Equipment: **Household Air Mattress Inflator**

Sequence#: 5

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

Equipment Under Test (* = EUT):

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

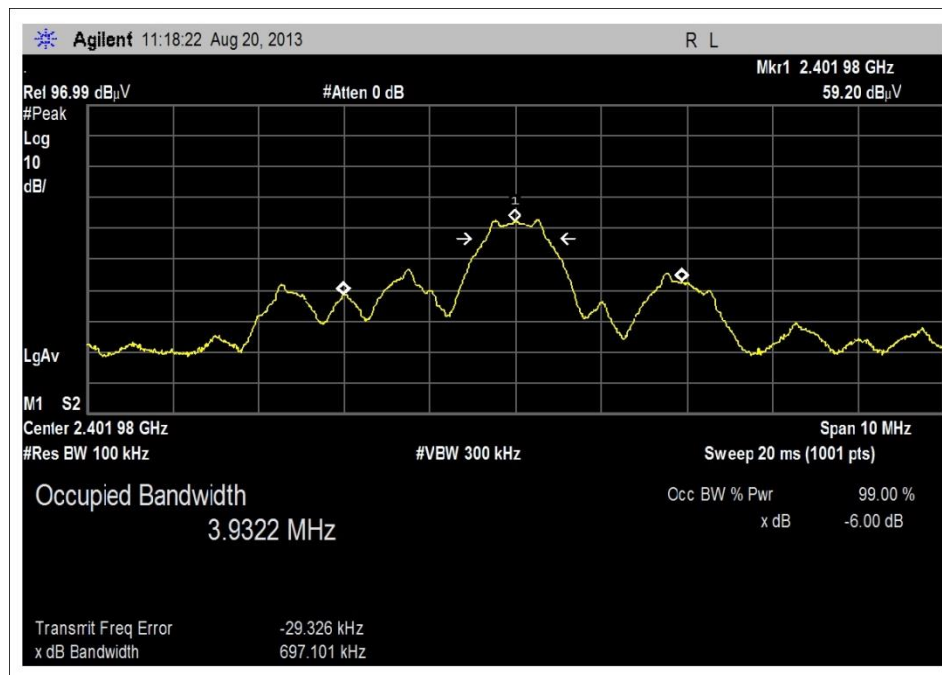
Support Devices:

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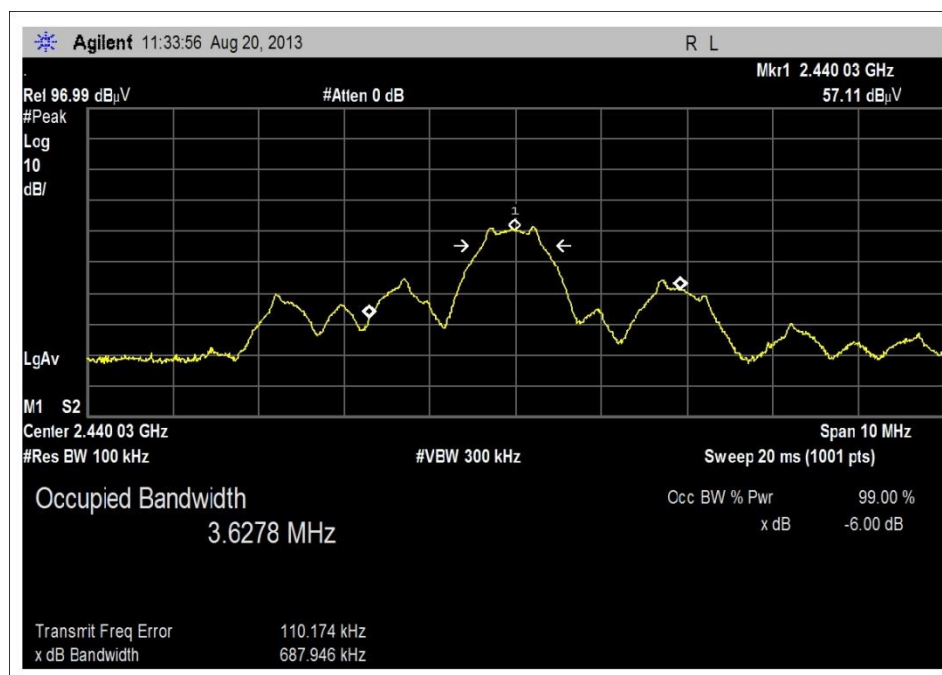
Test Conditions / Notes:

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
 Low Frequency: 2.402GHz
 Middle Frequency: 2.440GHz
 High Frequency: 2.480GHz
 RF output power of the chip= 0dBm
 Gain of the antenna = 1dBi
 The EUT is a fixed device. It is placed on the 80 cm table and 3 meter away from a measuring antenna. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.

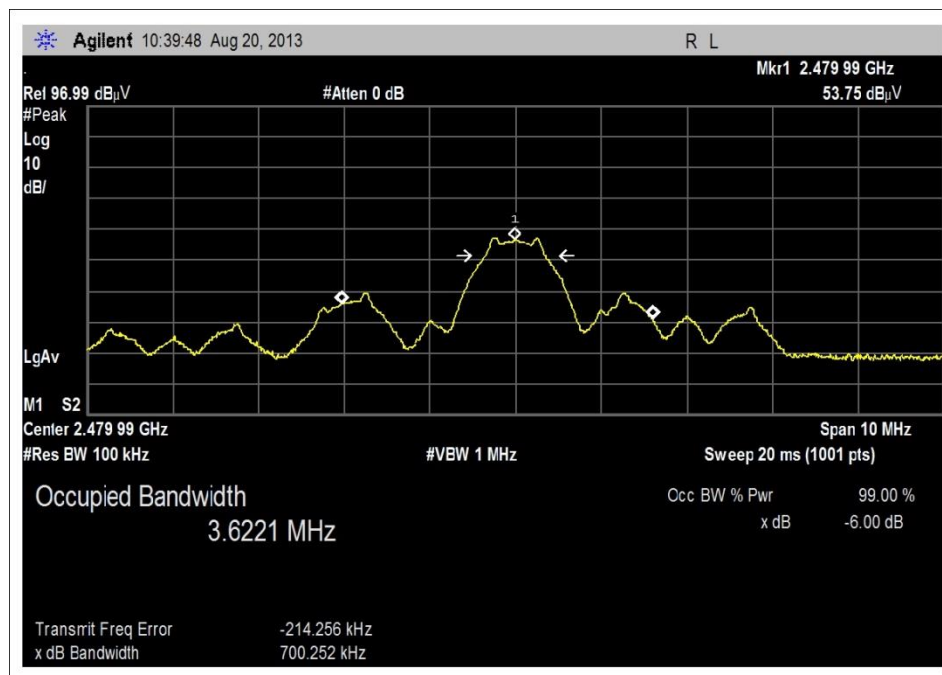
Test Data



Low Channel



Middle Channel



High Channel

Zigbee Test Conditions / Setup

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

Customer: **Bam Labs**

Specification: **OBW Setup**

Work Order #: **94232**

Date: 8/21/2013

Test Type: **Radiated Scan**

Time: 09:59:11

Equipment: **Household Air Mattress Inflator**

Sequence#: 6

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

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:

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: 2.405GHz

Middle Frequency: 2.440GHz

High Frequency: 2.480GHz

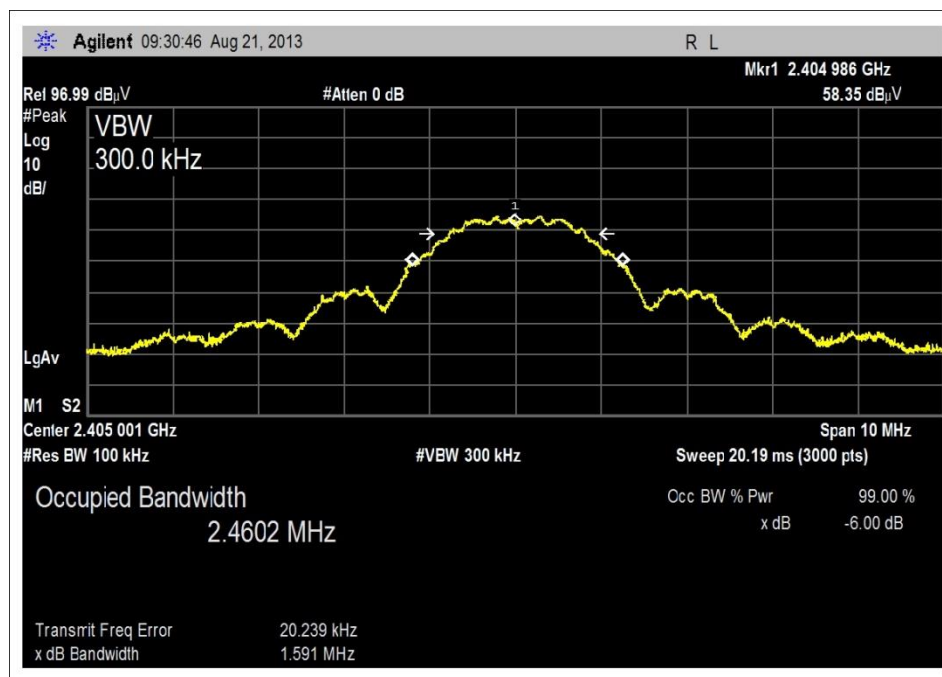
RF output power of the chip= 1.19 dBm (DC)

Gain of the antenna= 1dBi

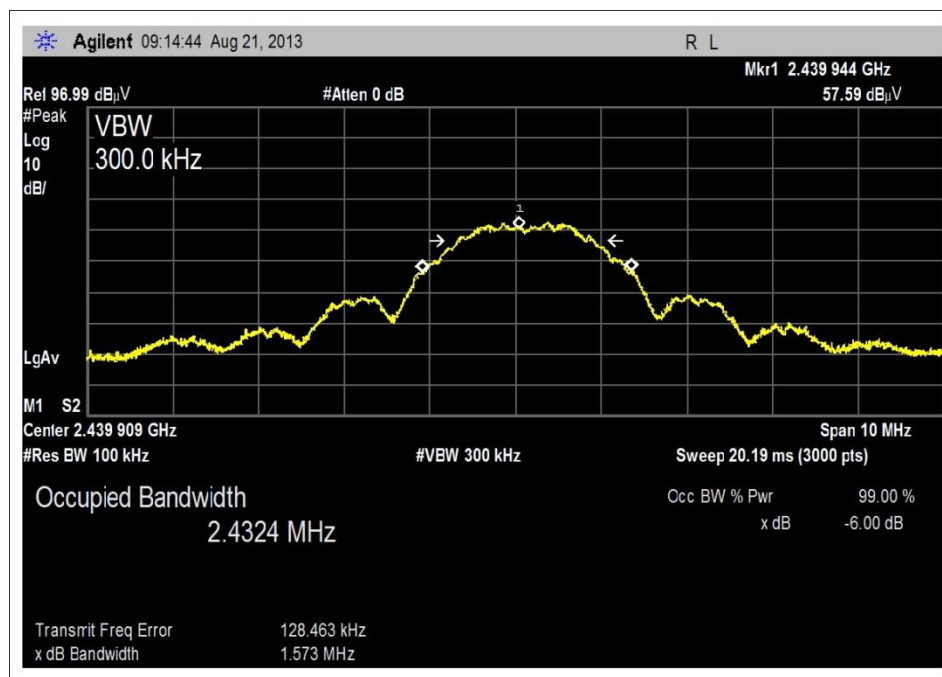
The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Zigbee is operated only.

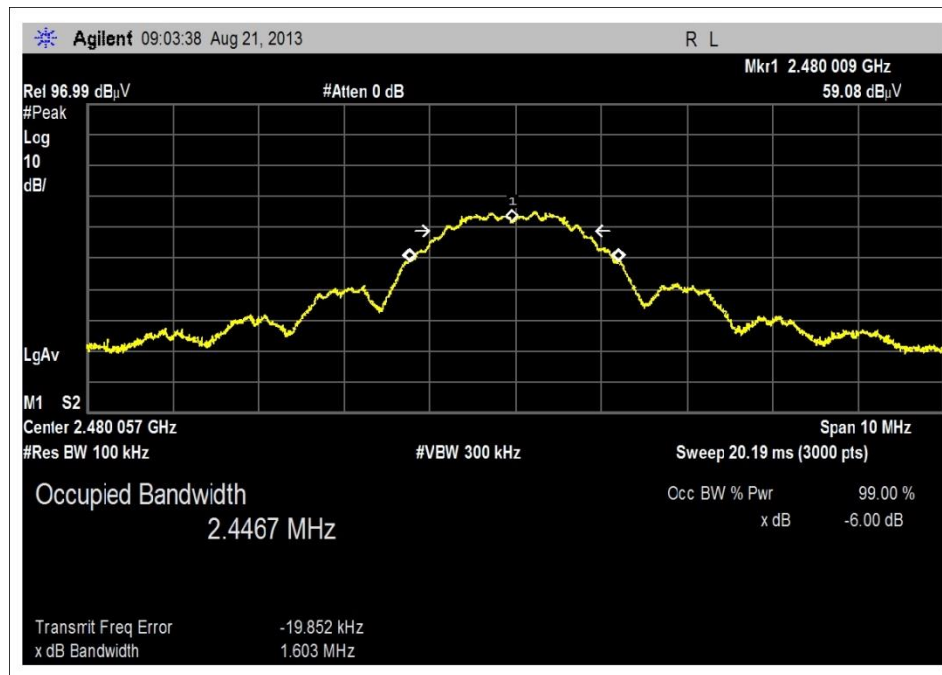
Test Data



Low Channel

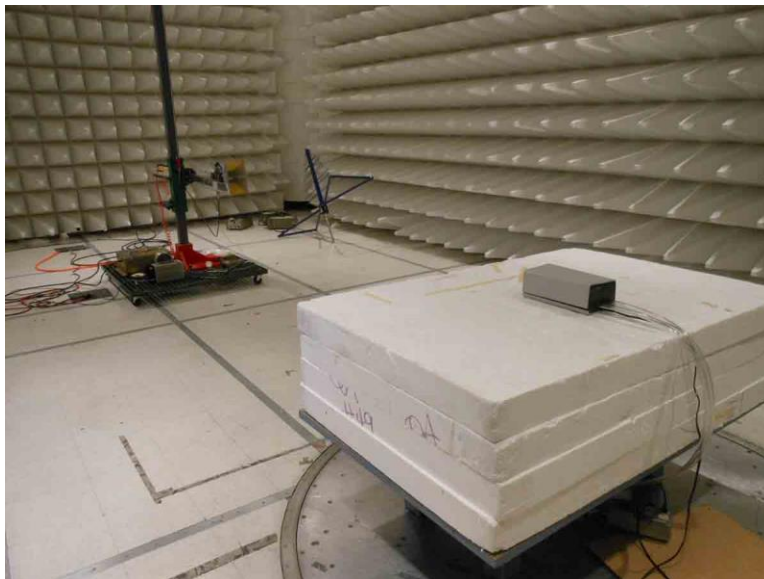
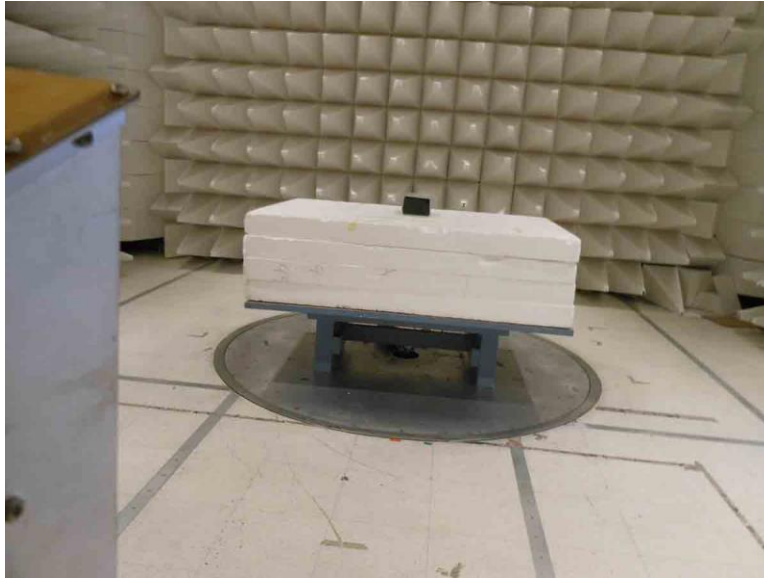


Middle Channel



High Channel

Test Setup Photos



RSS-210 / 99% OBW and -6dB EBW Required

Bluetooth Test Conditions / Setup

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

Customer: **Bam Labs**

Specification: **OBW setup**

Work Order #: **94232**

Date: 8/20/2013

Test Type: **Radiated Scan**

Time: 11:43:57

Equipment: **Household Air Mattress Inflator**

Sequence#: 5

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

Equipment Under Test (* = EUT):

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

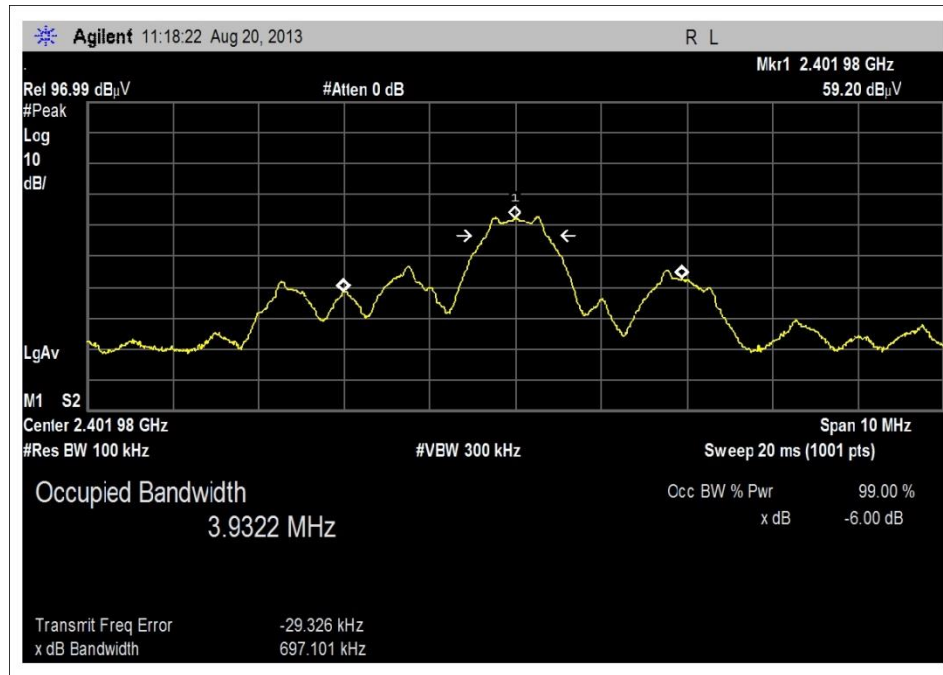
Support Devices:

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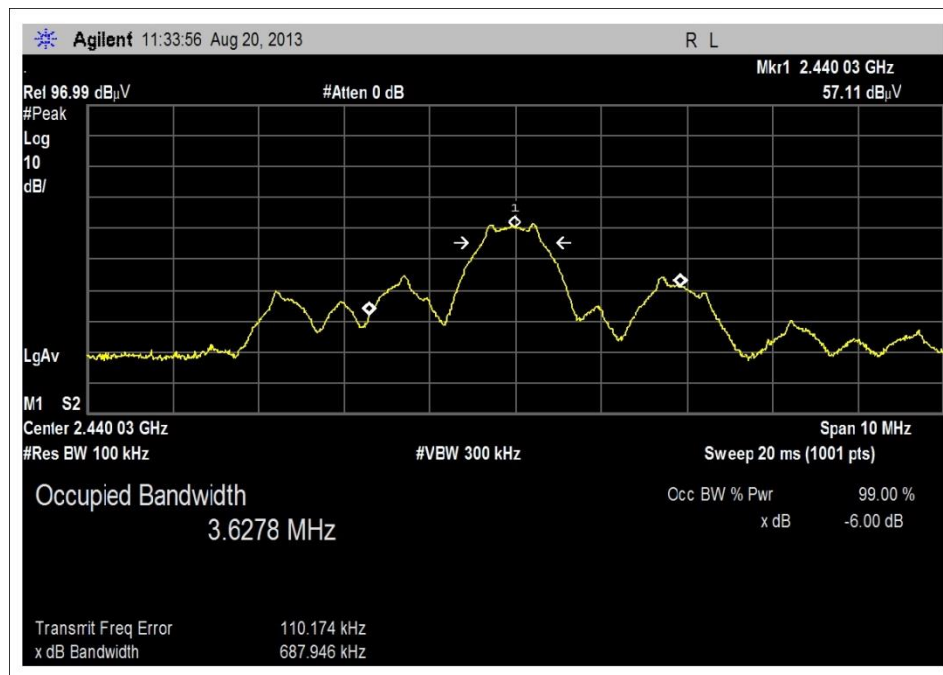
Test Conditions / Notes:

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
 Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz
 RF output power of the chip= 0dBm
 Gain of the antenna = 1dBi
 The EUT is a fixed device. It is placed on the 80 cm table and 3 meter away from a measuring antenna. The EUT is set to continuously transmit.
Note: Bluetooth is operated only.

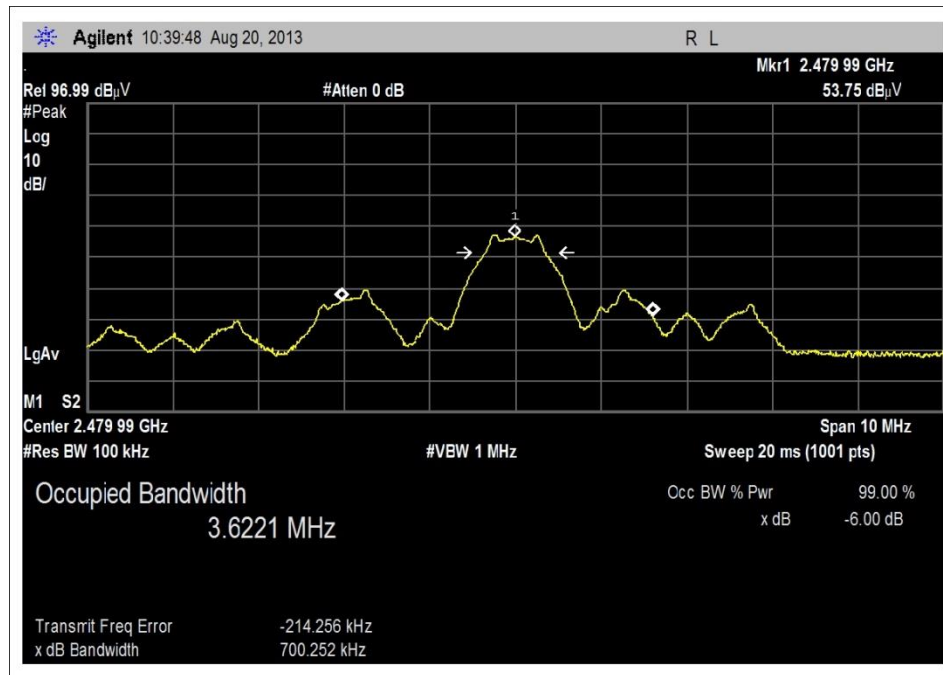
Test Data



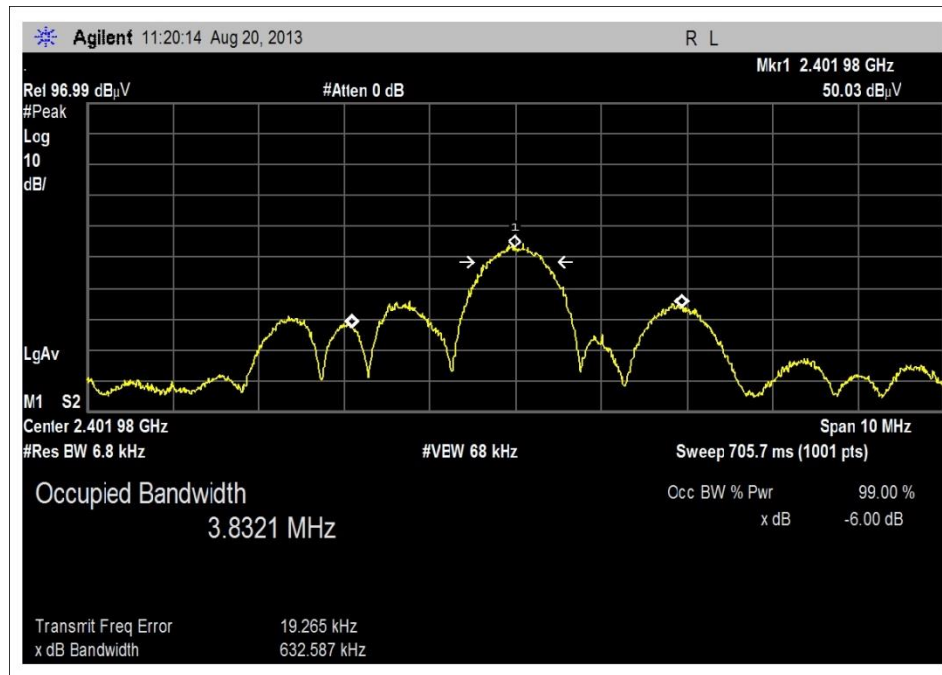
99% OBW - Low Channel



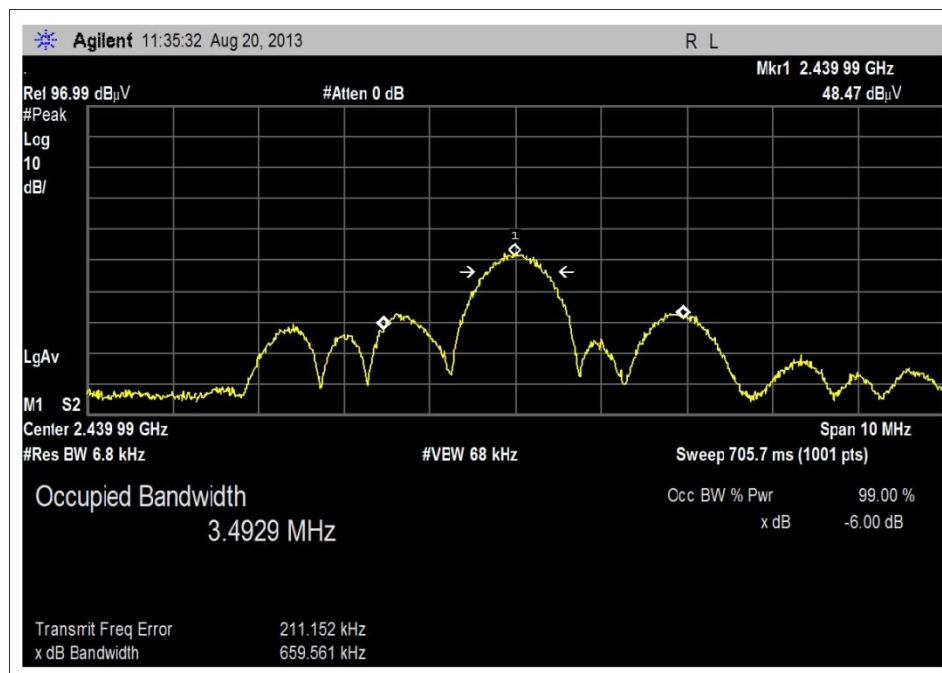
99% OBW - Middle Channel



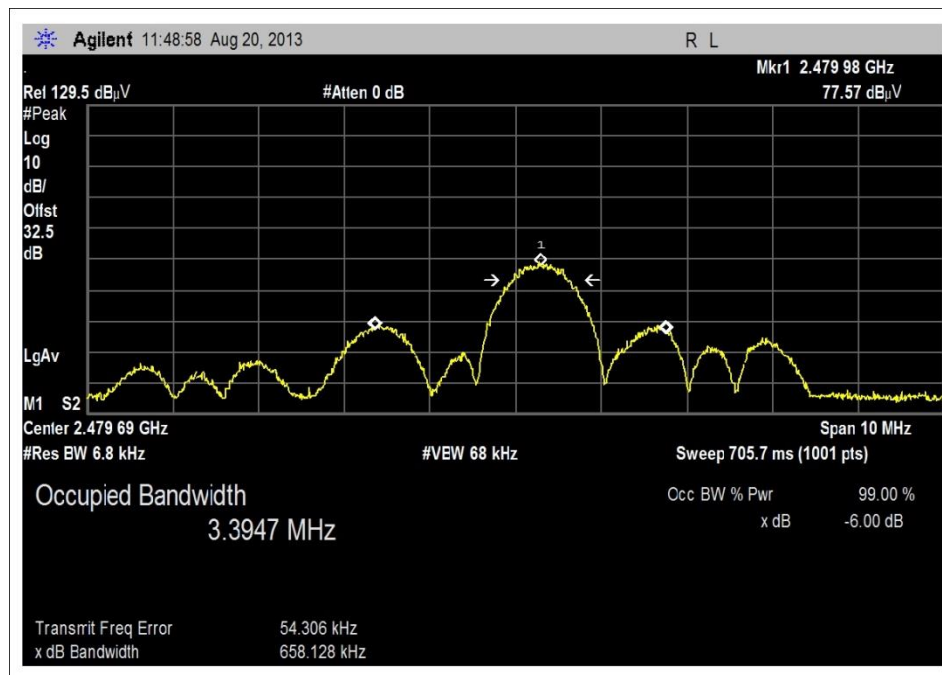
99% OBW - High Channel



-6dB EBW - Low Channel



-6dB EBW - Middle Channel



-6dB EBW - High Channel

Zigbee Test Conditions / Setup

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

Customer: **Bam Labs**

Specification: **OBW Setup**

Work Order #: **94232**

Date: 8/21/2013

Test Type: **Radiated Scan**

Time: 09:59:11

Equipment: **Household Air Mattress Inflator**

Sequence#: 6

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

Equipment Under Test (* = EUT):

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

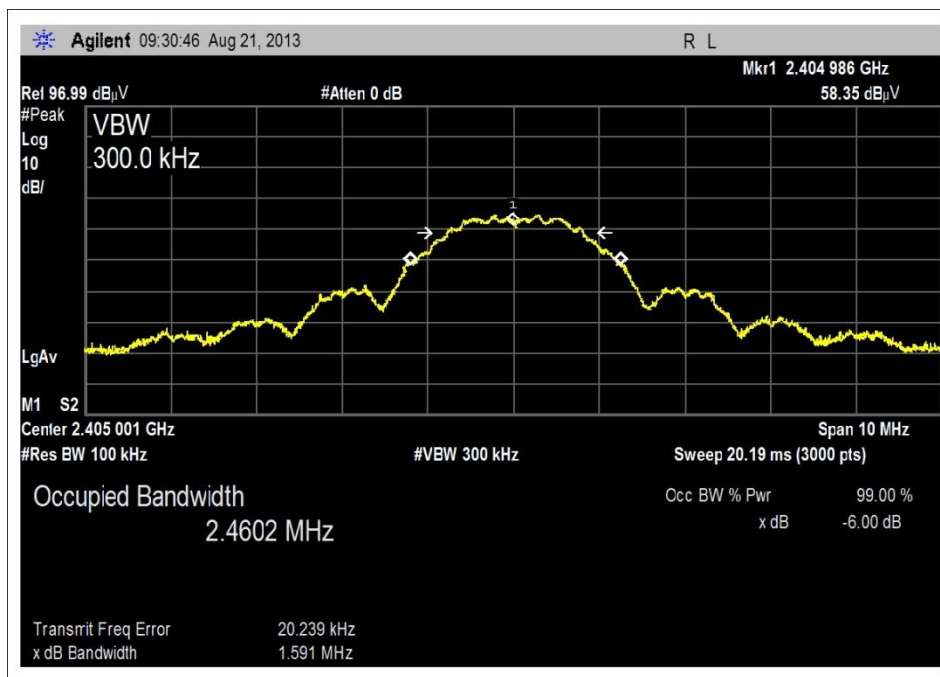
Support Devices:

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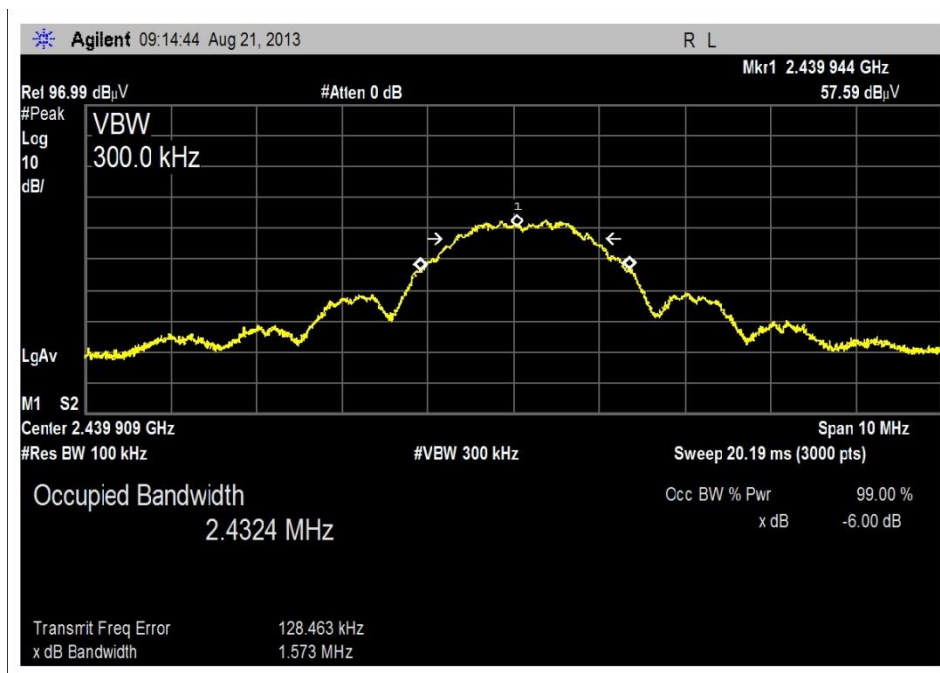
Test Conditions / Notes:

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: 2.405GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHz RF output power of the chip= 1.19 dBm (DC) Gain of the antenna= 1dBi 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.

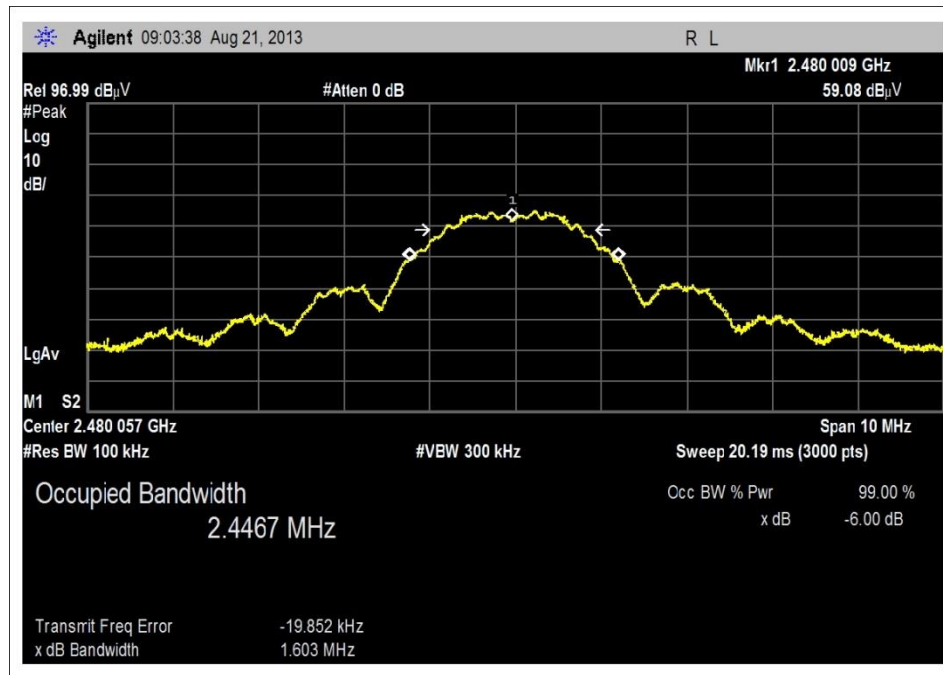
Test Data



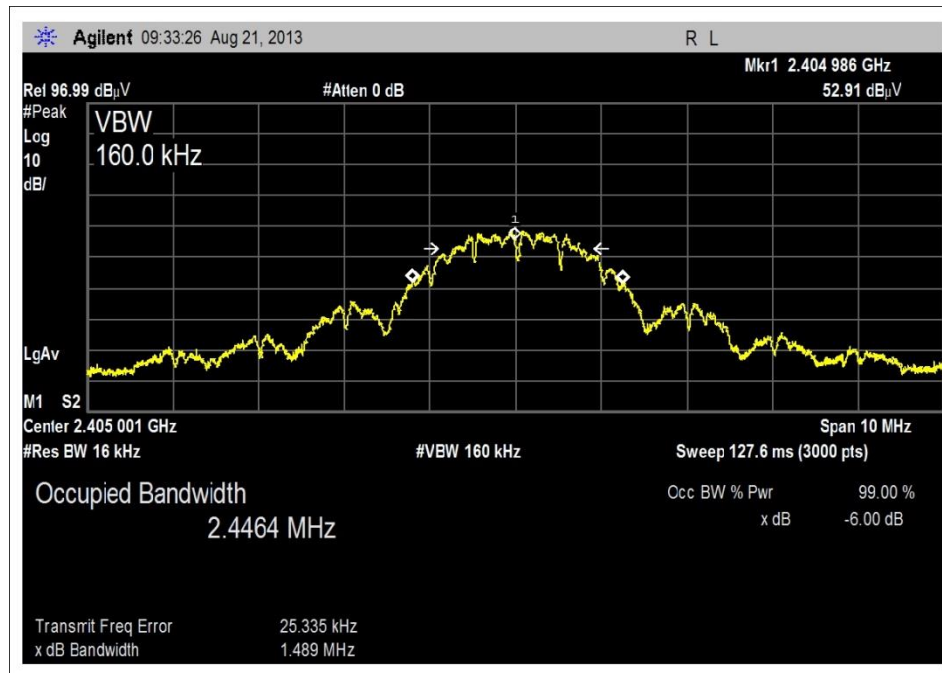
99% OBW - Low Channel



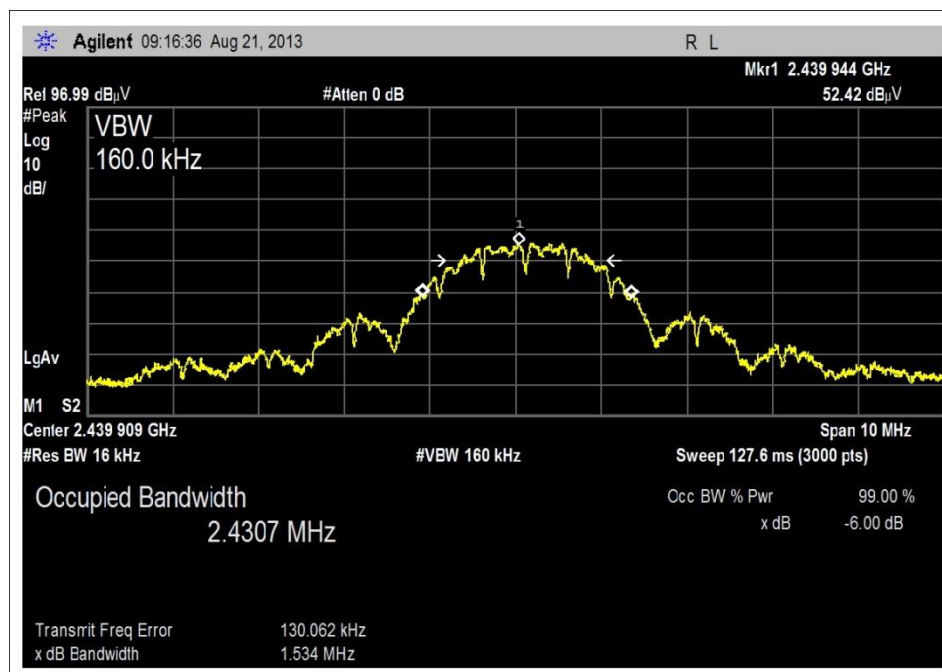
99% OBW - Middle Channel



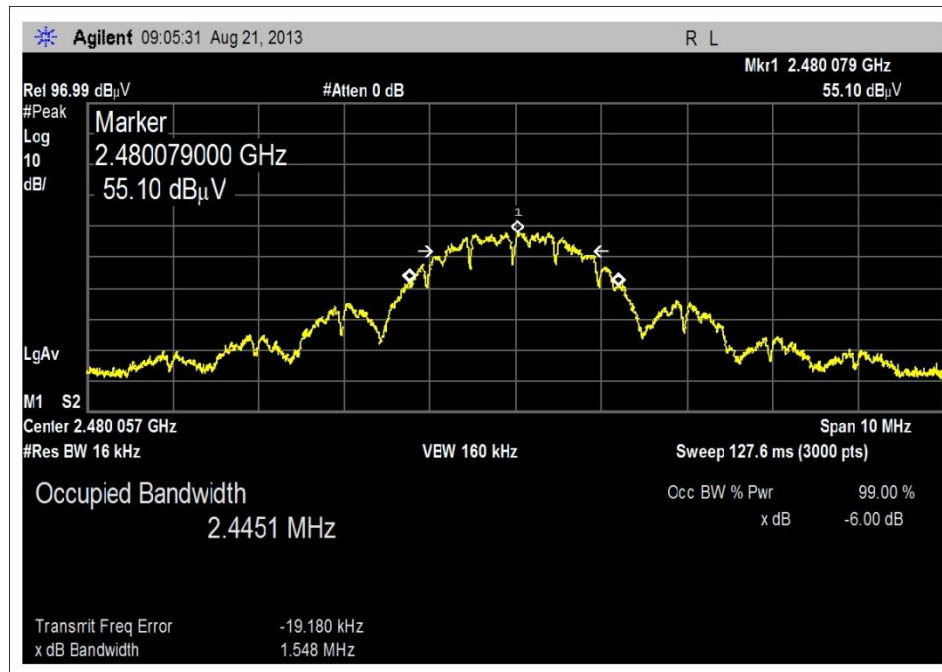
99% OBW - High Channel



-6dB EBW- Low Channel



-6dB EBW - Middle Channel



-6dB EBW - High Channel

Test Setup Photos

