



CLASS II PERMISSIVE CHANGE TEST REPORT

Report Number: 101656634MPK-006

Project Number: G101656634

July 10, 2014

**Testing performed on the
SoundBite Hearing System**

Model Number: SoundBite

FCC ID: YTESM03

IC: 12096A-SM03

to

FCC Part 15 Subpart C (15.209)

FCC Part 15 Subpart C (15.207)

FCC Part 15, Subpart B

RSS-210 Issue 8

ICES-003 Issue 5

Class: B

for

Sonitus Medical, Inc.

Test Performed by:

Intertek

1365 Adams Court

Menlo Park, CA 94025 USA

Test Authorized by:

Sonitus Medical, Inc.

1900 Alameda De Las Pulgas

San Mateo, CA 94403, USA

Prepared by:


Anderson Soungpanya

Date: July 10, 2014

Reviewed by:


Krishna K Vemuri

Date: July 10, 2014

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VERIFICATION OF COMPLIANCE

Report No. 101656634MPK-006

Verification is hereby issued to the named APPLICANT and is VALID ONLY for the equipment identified hereon for use under the rules and regulations listed below.

Equipment Under Test:	Wireless Hearing System
Trade Name:	SoundBite Hearing System
Model No.:	SoundBite
Applicant:	Sonitus Medical, Inc.
Contact:	Tim Proulx
Address:	Sonitus Medical, Inc. 1900 Alameda De Las Pulgas San Mateo, CA 94403, USA
Country	USA
Tel. number:	(650) 838-0325
email:	tim@sonitusmedical.com
Applicable Regulation:	FCC Part 15, Subpart C (15.209) FCC Part 15, Subpart C (15.207) FCC Part 15, Subpart B RSS-210 Issue 8 ICES-003 Issue 5
Equipment Class:	Class B
Date of Test:	June 2 – 13, 2014

We attest to the accuracy of this report:

Anderson Soungpanya
Project Engineer

Krishna K Vemuri
EMC Senior Staff Engineer

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EXECUTIVE SUMMARY

Test	Reference FCC	Reference IC	Result
Transmitter Radiated Emissions	15.209	RSS 210 (5.2)	Complies
AC Line Conducted Emission (Transmitting mode)	15.207	RSS GEN	Not Applicable. EUT is battery powered in normal operation. (Transmitting mode)
Radiated Emission from Digital Part and Receiver	15.109	ICES 003	Complies
AC Line Conducted Emission (Charging mode)	15.107	ICES 003	Complies
Antenna Requirement	15.203	RSS GEN	Complies. The EUT does not have an external antenna connector
Occupied Bandwidth	15.215(c)	RSS GEN	Complies



1.0 Job Description

The Equipment under Test (EUT) is the SoundBite Hearing System; model number SoundBite. The System consists of a Behind the Ear (BTE) Transmitter and In the Mouth (ITM) Receiver. As declared by the Applicant, the EUT utilizes the identical radio which is used in the SoundBite system previously tested per Intertek report # 100338525MPK-009 on June 30, 2011 (FCC ID: YTESM03) but utilizes an alternate transmitter antenna. Therefore, the following Class II Permissive Change tests were performed to show compliance for SoundBite Hearing System: Field Strength, Radiated Spurious Emission and Digital parts emissions & Occupied Bandwidth.

1.1 Client Information

The EUT has been tested at the request of:

Company:	Sonitus Medical, Inc. 1900 Alameda De Las Pulgas San Mateo, CA 94403, USA
Name of contact:	Tim Proulx
Telephone:	(650) 838-0325
Email:	tim@sonitusmedical.com

1.2 Test Plan Reference

Tests were performed to the following standards:

- FCC Part 15, Subpart C (15.209)
- FCC Part 15, Subpart C (15.207)
- FCC Part 15, Subpart B
- RSS – 210 Issue 8
- ICES – 003 Issue 5



1.3 Description of Equipment Under Test (EUT)

Description	Hearing System
Model No.	SoundBite
FCC Identifier	YTESM03
IC Identifier	12096A-SM03
Operating Frequency	Single frequency, 10.6 MHz
Number of Channels	1
Type of Modulation	CPFSK
Antenna Type	Internal Antenna

EUT receive date: June 2, 2014

EUT receive condition: The EUT was received in good condition with no apparent damage.

Test start date: June 2, 2014

Test completion date: June 13, 2014

The test results in this report pertain only to the item tested.

Sonitus Medical, Inc. supplied the following description of the EUT:

SoundBite Hearing System is a non-surgical and removable hearing solution designed to imperceptibly transmit sound via the teeth to restore hearing in patients who are essentially deaf in one ear. It employs a principle called bone conduction to deliver clear, high quality sound to the inner ear. The SoundBite System consists of

- An easy to insert and remove ITM (in the mouth) bone conduction device
- A small BTE (behind the ear) with attached microphone unit worn on the treated ear
- A charger, which includes docks that simultaneously recharge the ITM and BTE
- A Class II AC power adapter that provides power to the charger

No modifications to the teeth are required. Both the ITM and BTE are designed with rechargeable lithium polymer batteries.

System accessories/detachable parts include ear domes (SoundBite Dome) that attach to the microphone unit.

The system under test incorporates an alternate ITM, BTE and Charger. The ITM-AD has been designed to extend battery life and offer a single ITM solution for the patient. The BTE-EC has been designed with a larger coil antenna to extend wireless link distance. The Charger-CS has been designed to replace the existing dual ITM charging docks with a single ITM dock in a more compact form factor for improved portability. Product packaging has also been redesigned.



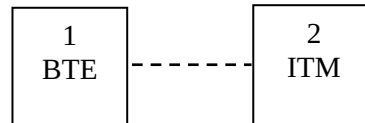
1.4 Equipment Under Test

Item #	Description	Model No.	Serial No.
1	BTE Transmitter (Behind the Ear)	BTE-EC	R040503
2	ITM Receiver (In the Mouth)	ITM-AD	F117843
3	Battery Charging Cradle	Charger-CS	EBR0514-08-01
4	TRUMPower AC/DC Power Supply	FRM06-S05-SU	14042801

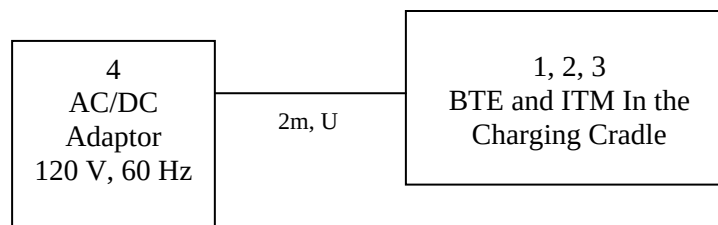
1.5 Block Diagram of Test Setup

The diagrams showed below details the interconnection of the EUT and support equipment. For specific layout, refer to the test configuration photograph in the relevant section of this report.

Normal Mode



Charging Mode



----- = BTE Transmitting and ITM Receiving

S = Shielded	m = Length in Meters
U = Unshielded	



1.6 Justification

The EUT was configured for testing in a table-top configuration, as specified by Sonitus Medical, Inc.

Tests for radiated emissions, digital parts emissions and occupied bandwidth were conducted with the EUT in Normal Mode, in which the BTE (transmitter) and ITM (receiver) are wirelessly linked and in RF communication. The BTE transmitter is always on. Upon power up, the ITM receiver is in standby/carrier-detect mode. If a carrier is detected above a certain threshold, a link is established and the ITM goes into RX mode. If no carrier is detected, the ITM goes into sleep mode. In sleep mode, the ITM wakes up periodically and enters standby/carrier-detect mode.

AC line conducted tests were conducted when the ITM and BTE were connected to the charger. EUT communications link is disabled when BTE and ITM are installed on the charger.

1.7 Mode(s) of Operation

1) For radiated emissions, digital parts emissions and occupied bandwidth, a continuous communications link was established between the ITM and BTE (Normal Mode). The ITM outputs a vibratory signal and when positioned within about 5 cm of the BTE, the system goes into audible acoustic feedback that can be easily monitored by the technician.

2) For AC line conducted tests, EUT communications link is disabled when BTE and ITM are installed on the charger (Charging Mode).

1.8 Modifications Required for Compliance

No modifications were made during compliance testing in order to bring the product into compliance.



2.0 Test Environment for Emissions Testing

2.1 Test Facility

The test facility is located at 1365 Adams Court, Menlo Park, California. The test site is a 10-meter semi-anechoic chamber. The site meets the characteristics of CISPR 16-1 and ANSI C63.4. For measurements, a remotely controlled flush-mount metal-top turntable is used to rotate the EUT a full 360 degrees. A remote controlled non-conductive antenna mast is used to scan the antenna height from one to four meters.

The A2LA certificate number for this site is 1755-01.

The Industry Canada (IC) Site Number is 2042L-1.

2.2 Test Equipment

Table 2-1 contains a list of the test equipment used during the testing.

Table 2-1 List of Test Equipment

Equipment	Manufacturer	Model/Type	Asset #	Cal Int	Cal Due
Spectrum Analyzer	Rohde and Schwarz	FSU	ITS 00913	12	12/11/14
Spectrum Analyzer	Rohde and Schwarz	ESU	ITS 00961	12	11/04/14
BI-Log Antenna	ARA	LPB-2513/A	ITS 00355	12	08/01/14
Pre-Amplifier	Sonoma Instrument	310N	ITS 00415	12	12/20/14
LISN	FCC	FCC-LISN-50-50-M-H	ITS 00552	12	07/17/14
Passive Loop Antenna	EMCO	6512	ITS 01598	12	07/12/14



2.3 Example Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor. Then by subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - PA + DCF$$

Where

FS = Field Strength in dB ($\mu\text{V}/\text{m}$)

RA = Receiver Amplitude (including preamplifier) in dB (μV)

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB (1/m)

PA = Preamplifier Factor in dB

DCF = Distance Correction Factor dB (for measurements made at X meters when compared to Y meter limits, $40\log(X/Y)$ for below 30MHz and $20\log(X/Y)$ for above 30MHz)

Assume a receiver reading of 52.0 dB (μV) is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted and the Distance Correction Factor of 10.5 dB is added, giving field strength of 42.5 dB ($\mu\text{V}/\text{m}$).

$$RA = 52.0 \text{ dB } (\mu\text{V})$$

$$AF = 7.4 \text{ dB (1/m)}$$

$$CF = 1.6 \text{ dB}$$

$$PA = 29.0 \text{ dB}$$

$$DCF = 10.5 \text{ dB}$$

$$FS = RF + AF + CF - PA + DCF$$

$$FS = 52.0 + 7.4 + 1.6 - 29.0 + 10.5$$

$$FS = 42.5 \text{ dB } (\mu\text{V}/\text{m})$$



2.4 Measurement Uncertainty

Compliance of the product is based on the measured value. However, the measurement uncertainty is included for informational purposes.

Radiated Emission:

The uncertainty in the measured field strength is estimated as follows, for a minimum confidence probability of 95 %

Freq. Range	Detection Mode	Uncertainty
9 kHz to 30 MHz	Quasi-peak	± 2.3 dB
30 MHz to 1000 MHz	Quasi-peak	± 4.2 dB
1 GHz to 18 GHz	Average	± 5.1 dB

Conducted Emission:

The uncertainty in the measured voltage is estimated as follows, for a minimum confidence probability of 95 %

Freq. Range	Detection Mode	Uncertainty
150 kHz to 30 MHz	Average	± 2.6 dB
	Quasi-peak	± 2.6 dB

3.0 Emissions Test Results

3.1 Transmitter Radiated Emissions

FCC: 15.209

IC: RSS-GEN

3.1.1 Test Limits

Limits for Electromagnetic Radiated Disturbance, FCC Section 15.209(b)& RSS-GEN

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

In addition, the level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission.



3.1.2 Test Procedure

Radiated emission measurements were performed from 9 kHz to 30 MHz with the Spectrum Analyzer Resolution Bandwidth 200 Hz. In the frequency range from 9 kHz to 30 MHz the Quasi-peak value of the Field Strength (FS) is measured. The measuring receiver meets the requirements of Section One of CISPR 16 and the measuring antenna correlates to a balanced dipole.

The EUT is placed on a plastic table that is 80 cm in height on top of a turntable. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). During testing, all cables were manipulated to produce worst-case emissions. The signal is maximized through rotation. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emission measurements were performed from 9 kHz to 1 GHz.

Analyzer resolution was:

9 kHz or greater for frequencies below 30 MHz

100 kHz or greater for frequencies 30 MHz to 1000 MHz

Below 30 MHz

Radiated emissions are taken at 3 meter for frequencies below 30MHz. An inverse proportionality factor of 40 dB per decade should be used to normalize the measured data to the specified distance for determining compliance.

Above 30 MHz

During the test the EUT is rotated and the measuring antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at 10 meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. All readings are extrapolated back to the equivalent 30 meter reading using inverse scaling with distance.

Data is included of the worst-case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

Equipment was setup as “Normal Mode.” See section 1.5 for setup details.

Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4.

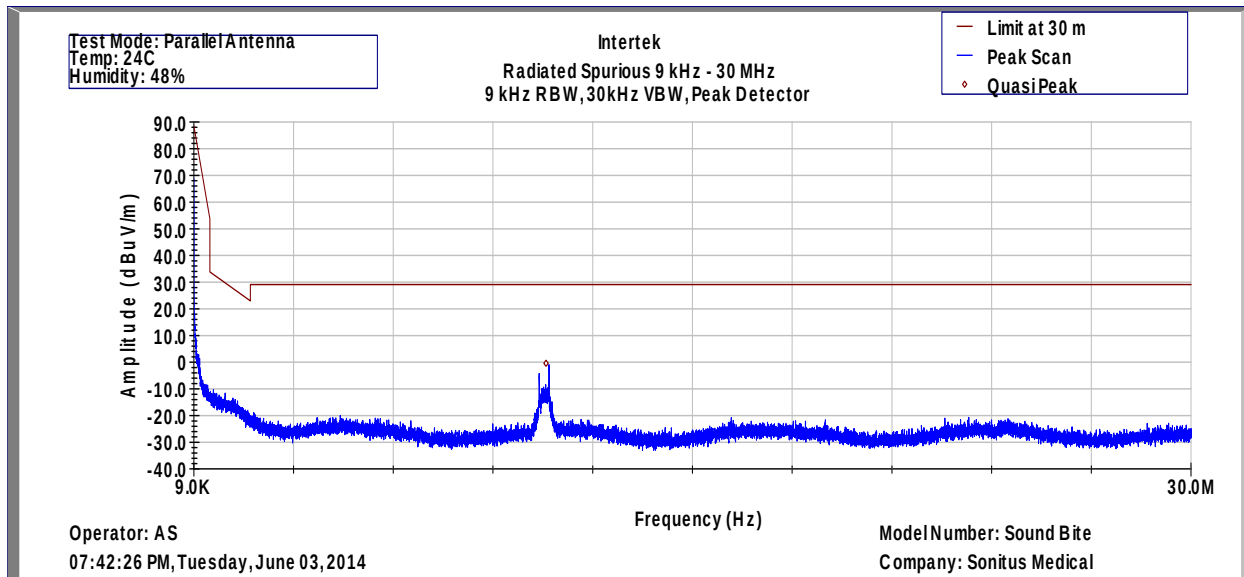
Tested By:	Anderson Soungpanya
Test Date:	June 3, 2014



3.1.3 Test Results

The EUT met the radiated disturbance requirements of FCC 15.209 for an Intentional Radiator.

9kHz to 30MHz Radiated Disturbance, FCC 15.209

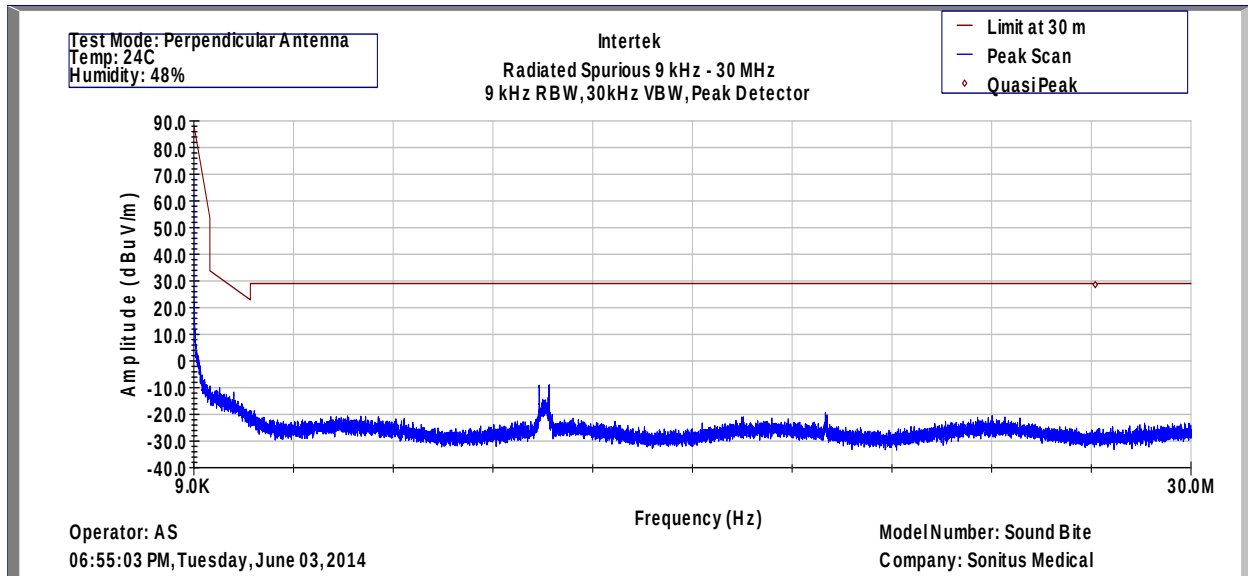


BTE and ITM

Antenna (Axis: Parallel)

Frequency	Quasi Pk FS	Limit@30m	Margin	RA @3m	CF	AG	DCF	AF
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB	dB(1/m)
10.6	-0.4	29	-29.4	36.6	0.4	32	-40	34.8

9kHz to 30MHz Radiated Disturbance, FCC 15.209

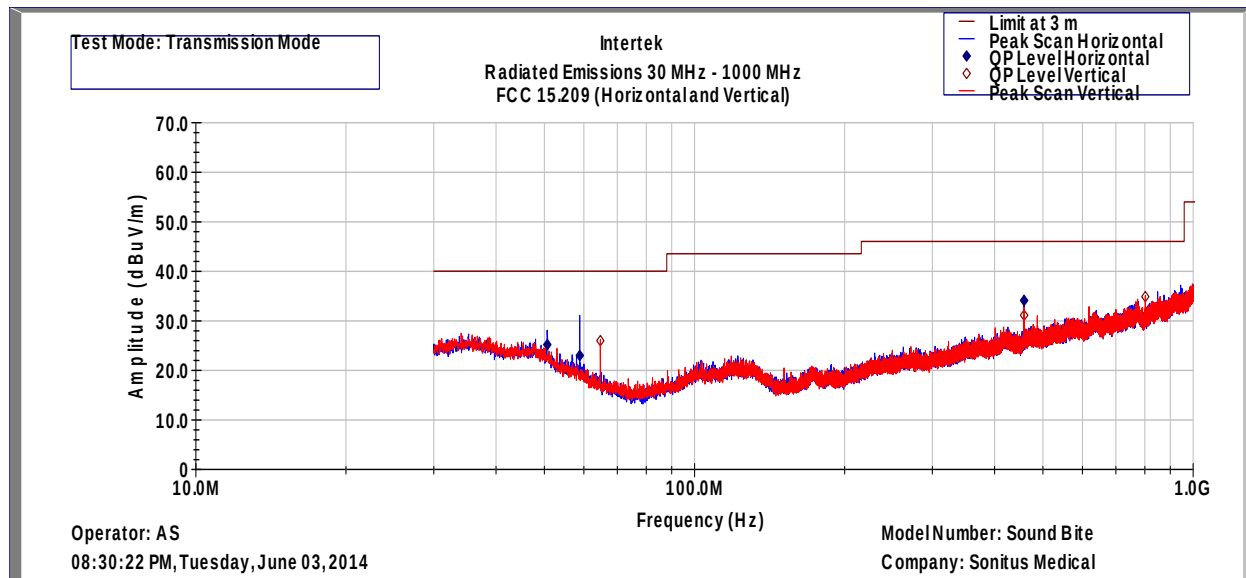


BTE and ITM

Antenna (Axis: Perpendicular)

Frequency	Quasi Pk FS	Limit@30m	Margin	RA @3m	CF	AG	DCF	AF
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB	dB(1/m)
10.6	-8.8	29	-37.8	28.0	0.4	32	-40	34.8

30MHz to 1GHz Radiated Disturbance, FCC 15.209



Intertek Testing Services

Radiated Emissions 30 MHz - 1000 MHz

15.209

Company: Sonitus Medical

Model Number: Sound Bite

Test Mode: BTE and ITM EUT Paired

(QP-Horizontal)										
Frequency	Quasi Pk FS	Limit@3m	Margin	RA @ 10m	CF	AG	DCF	AF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB	dB(1/m)	deg	cm
50.69	25.2	40	-14.8	31.5	0.8	32.1	10.5	14.4	10	164
58.88	23.0	40	-17.0	32.9	0.9	32.1	10.5	10.8	41	100
458.2	34.1	46	-11.9	37.1	2.4	32.0	10.5	16.2	123	200

(QP-Vertical)										
Frequency	Quasi Pk FS	Limit@3m	Margin	RA @ 10m	CF	AG	DCF	AF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB	dB(1/m)	deg	cm
64.75	26.0	40	-14.0	38.2	0.9	32.1	10.5	8.4	134	100
458.2	31.1	46	-14.9	34.1	2.4	32.0	10.5	16.2	231	163
801.9	34.9	46	-11.1	33.5	3.3	32.1	10.5	19.7	262	104

Results: Complies by 11.1dB

3.2 Radiated Emissions from Digital Parts

FCC: 15.109

IC: ICES-003

3.2.1 Test Limits

Limits for Electromagnetic Radiated Disturbance, FCC Section 15.109(b)

Frequency (MHz)	Class A at 10m dB(μV/m)	Class B at 3m dB(μV/m)
30-88	39.0	40.0
88-216	43.5	43.5
216-960	46.4	46.0
Above 960	49.5	54.0

Note: Three sets of units are commonly used for EMI measurement, decibels below one milliwatt (-dBm), decibels above a microvolt (dBμV), and microvolts (μV). To convert between them, use the following formulas: $20 \text{ LOG}_{10}(\mu\text{V}) = \text{dB}\mu\text{V}$, $\text{dBm} = \text{dB}\mu\text{V} - 107$

Alternative limits per Section 15.109(g):

Radiated Emissions Limits, CISPR 22

Frequency (MHz)	Class A at 10m dB(μV/m)	Class B at 10m dB(μV/m)
30-230	40.0	30.0
230-1000	47.0	37.0

Note: The lower limit shall apply at the transition frequency.



3.2.2 Test Procedure

Measurements of the radiated field in the frequency range of 30 MHz to 1000 MHz are made with the antenna located at a distance of 10 meters from the EUT and measurements in the frequency range above 1000 MHz are made with the antenna located at a distance of 3 meters from the EUT. The measuring receiver meets the requirements of Section One of CISPR 16 and the measuring antenna correlates to a balanced dipole.

Measurements of the radiated field below 1000 MHz are made with the antenna located at a distance of 10 meters from the EUT. If the field-strength measurements at 10m cannot be made because of high ambient noise level or for other reasons, measurements of Class B equipment may be made at a closer distance, for example 3m. An inverse proportionality factor of 20 dB per decade should be used to normalize the measured data to the specified distance for determining compliance.

The antenna is adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth is varied during the measurement to find the maximum field-strength readings.

The antenna-to-EUT polarization (horizontal and vertical) is varied during the measurements to find the maximum field-strength readings.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. The table is constructed of non-conductive materials.

Floor standing EUTs are placed on a horizontal metal ground plane and isolated from the ground plane by 3 to 12 mm of insulating material.

Equipment was setup as “Normal Mode.” See section 1.5 for setup details.

Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4.

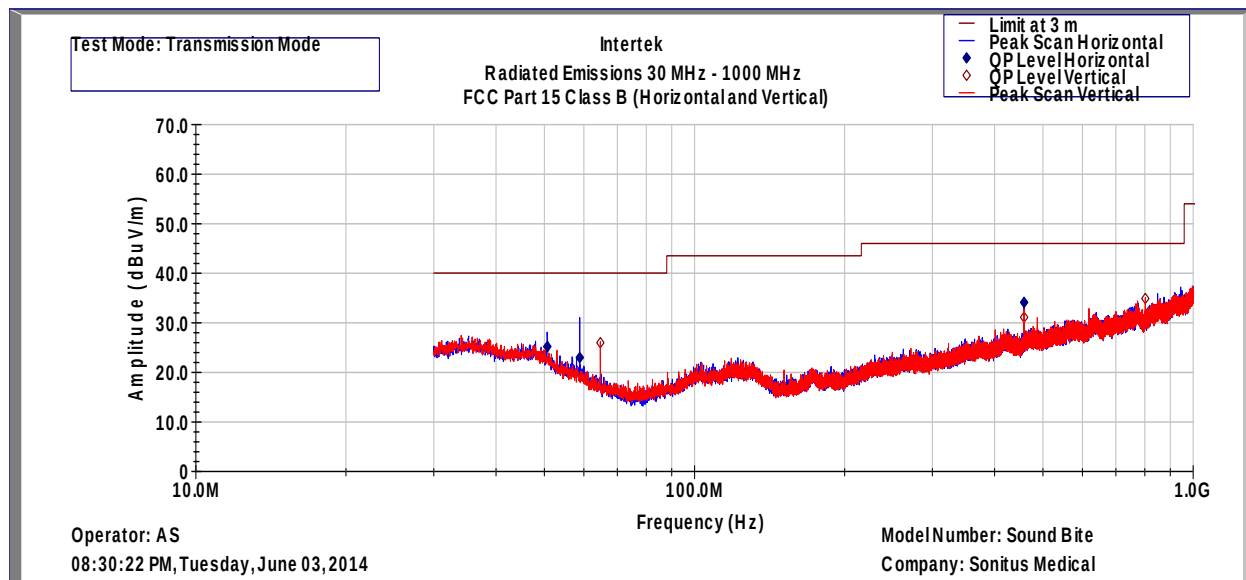
Tested By:	Anderson Soungpanya
Test Date:	June 3 & 5, 2014



3.2.3 Test Results

The EUT met the radiated disturbance requirements of FCC and ICES 003 for a Class B device.

FCC and ICES 003, Radiated Disturbance Normal Mode



Intertek Testing Services

Radiated Emissions 30 MHz - 1000 MHz

FCC Part 15B, Class B

Company: Sonitus Medical

Model Number: Sound Bite

Test Mode: BTE and ITM EUT Paired

(QP-Horizontal)										
Frequency	Quasi Pk FS	Limit@3m	Margin	RA @ 10m	CF	AG	DCF	AF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB	dB(1/m)	deg	cm
50.69	25.2	40	-14.8	31.5	0.8	32.1	10.5	14.4	10	164
58.88	23.0	40	-17.0	32.9	0.9	32.1	10.5	10.8	41	100
458.2	34.1	46	-11.9	37.1	2.4	32.0	10.5	16.2	123	200

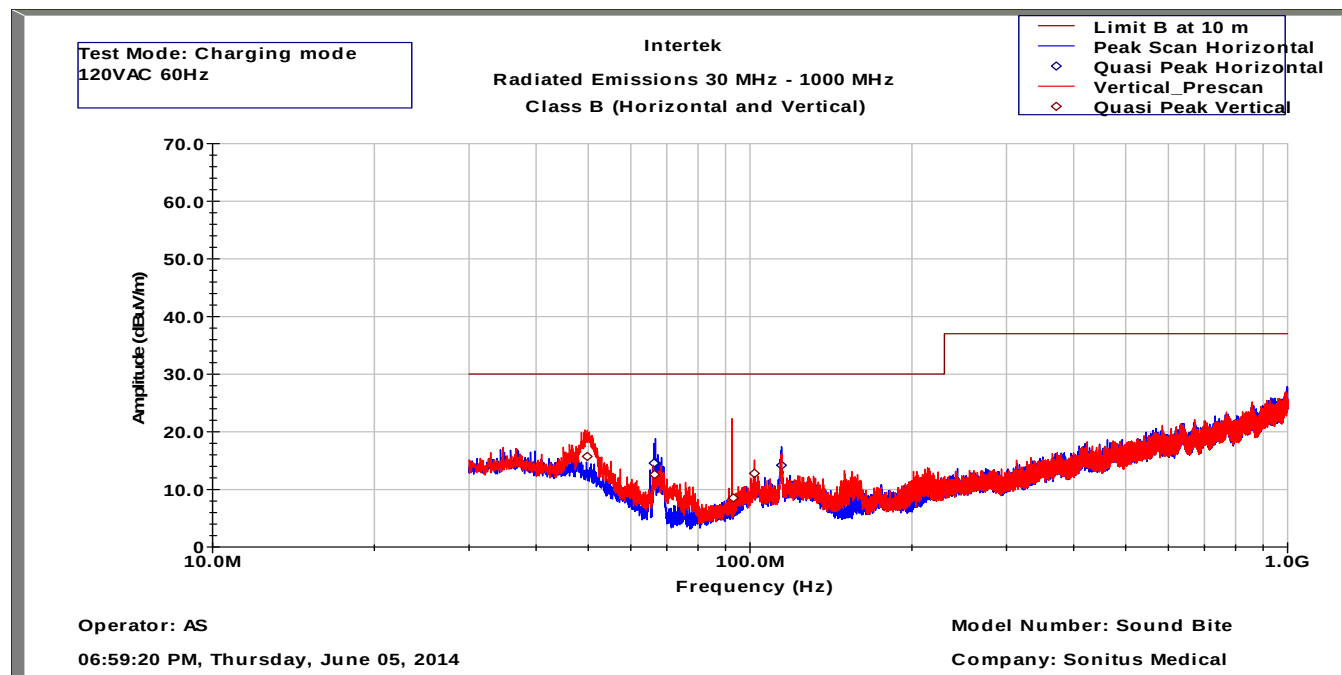
(QP-Vertical)										
Frequency	Quasi Pk FS	Limit@3m	Margin	RA @ 10m	CF	AG	DCF	AF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB	dB(1/m)	deg	cm
64.75	26.0	40	-14.0	38.2	0.9	32.1	10.5	8.4	134	100
458.2	31.1	46	-14.9	34.1	2.4	32.0	10.5	16.2	231	163
801.9	34.9	46	-11.1	33.5	3.3	32.1	10.5	19.7	262	104

Results: Complies by 11.1dB for Normal mode

3.2.3 Test Results

The EUT met the radiated disturbance requirements of FCC and ICES 003 for a Class B device.

FCC and ICES 003, Radiated Disturbance Charging Mode



Intertek Testing Services
Radiated Emissions 30 MHz - 1000 MHz
Operator: AS

Model Number: SoundBite

CISPR Class B (QP-Vertical)

Frequency	Quasi Pk FS	Limit@10m	Margin	RA	AG	AF	CF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB(1/m)	dB	deg	cm
49.800	15.7	30.0	-14.3	32.2	32.1	14.8	0.8	10.0	176.0
66.480	12.6	30.0	-17.4	35.7	32.1	8.0	1.0	6.0	103.0
93.100	8.5	30.0	-21.5	30.5	32.1	8.9	1.1	321.0	100.0
101.880	12.8	30.0	-17.2	32.4	32.1	11.3	1.2	31.0	114.0

CISPR Class B (QP-Horizontal)

Frequency	Quasi Pk FS	Limit@10m	Margin	RA	AG	AF	CF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB(1/m)	dB	deg	cm
66.280	14.6	30.0	-15.4	37.6	32.1	8.1	1.0	80.0	110.0
114.440	14.2	30.0	-15.8	33.8	32.0	11.2	1.2	109.0	116.0

Test Mode: Charging mode, 120VAC

Results: Complies by 14.3 dB for Charging mode



3.2 AC Mains Line-Conducted Disturbance

FCC: 15.107

IC: ICES-003

3.2.1 Test Limits

Limits for Electromagnetic Conducted Disturbance, FCC Section 15.207& 15.107

Frequency Band MHz	Class B Limit dB (µV)	
	Quasi-Peak	Average
0.15-0.50	66 to 56 Decreases linearly with the logarithm of the frequency	56 to 46 Decreases linearly with the logarithm of the frequency
0.50-5.00	56	46
5.00-30.00	60	50

Note: At the transition frequency the lower limit applies.



3.2.2 Test Procedure

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials.

Floor standing EUTs are placed on a horizontal metal ground plane and isolated from the ground plane by 3 to 12 mm of insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

Equipment was setup as "Charging Mode." See section 1.5 for setup details.

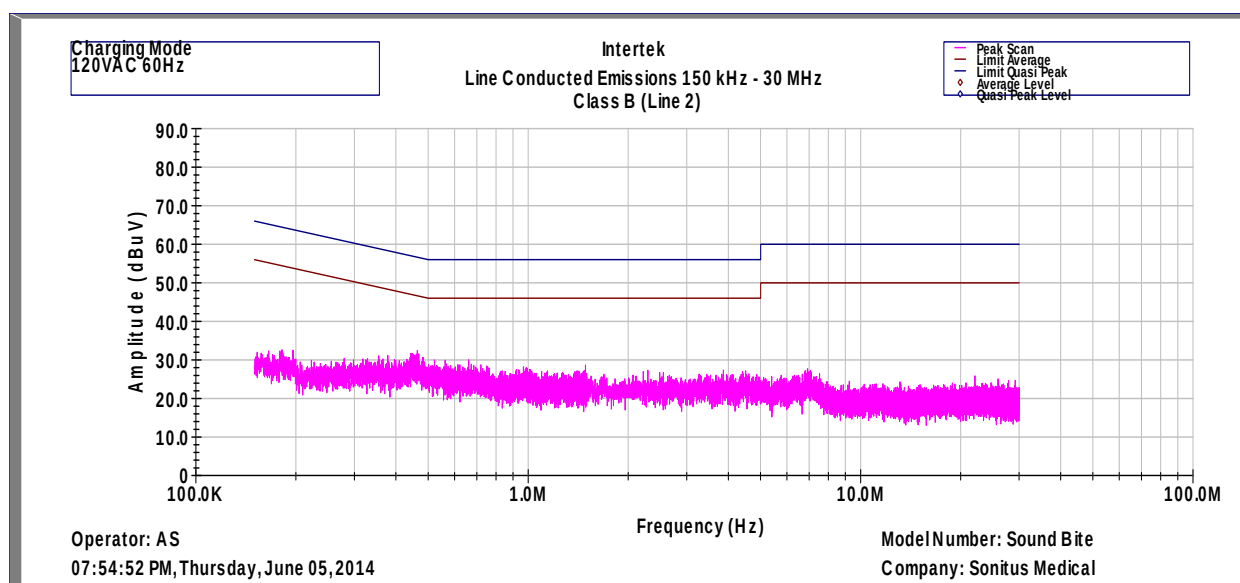
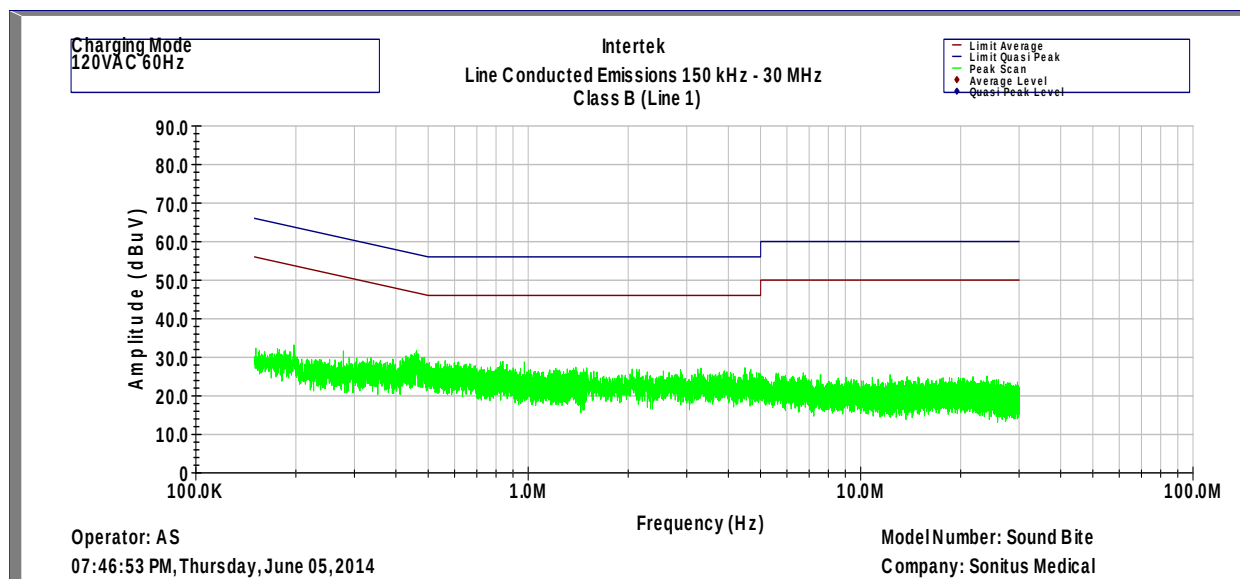
Equipment setup for conducted disturbance tests followed the guidelines of ANSI C63.4.

Tested By:	Anderson Soungpanya
Test Date:	June 05, 2014

3.2.3 Test Results

The EUT met the conducted disturbance requirement of FCC and ICES 003 for a Class B device.

FCC and ICES 003 Conducted Disturbance at AC Mains



Results: Complies by 14.8 dB

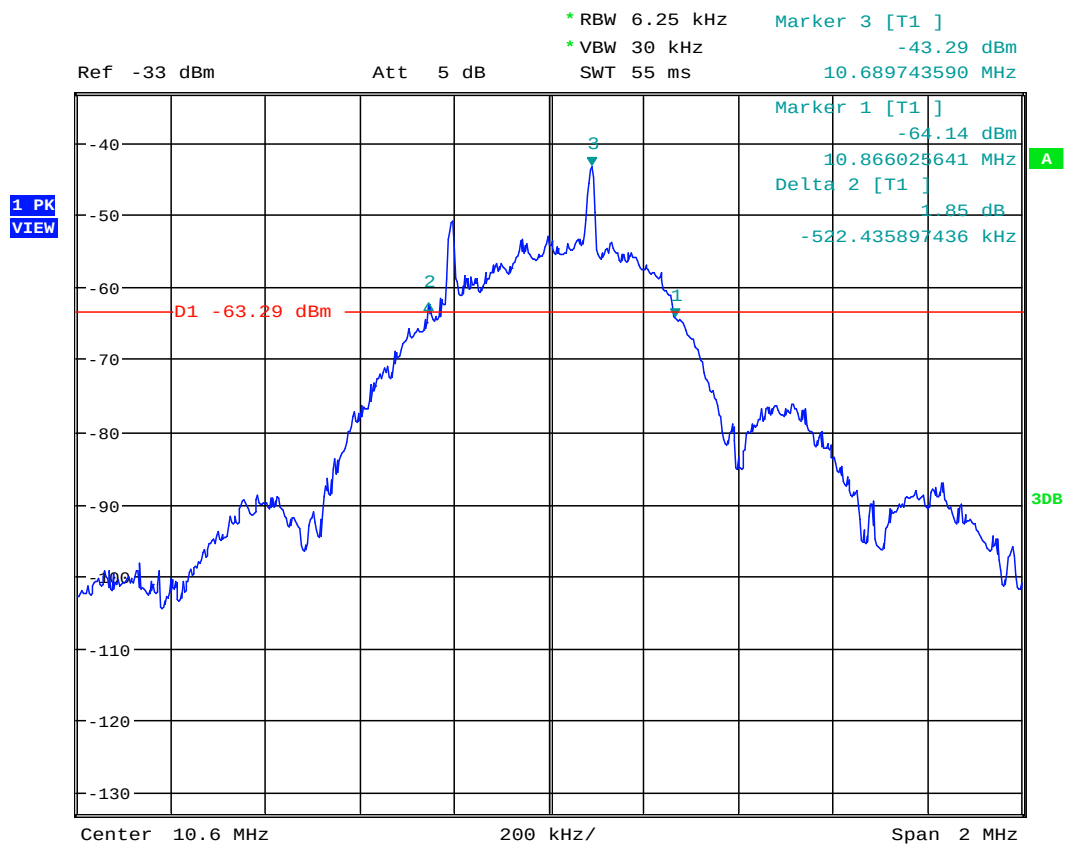


3.3 Occupied Bandwidth

Equipment was setup as “Normal Mode.” See section 1.5 for setup details.

Measurements were made with the loop antenna at 10 cm distance using a Spectrum Analyzer. The spectrum analyzer reading was plotted.

Plot 1

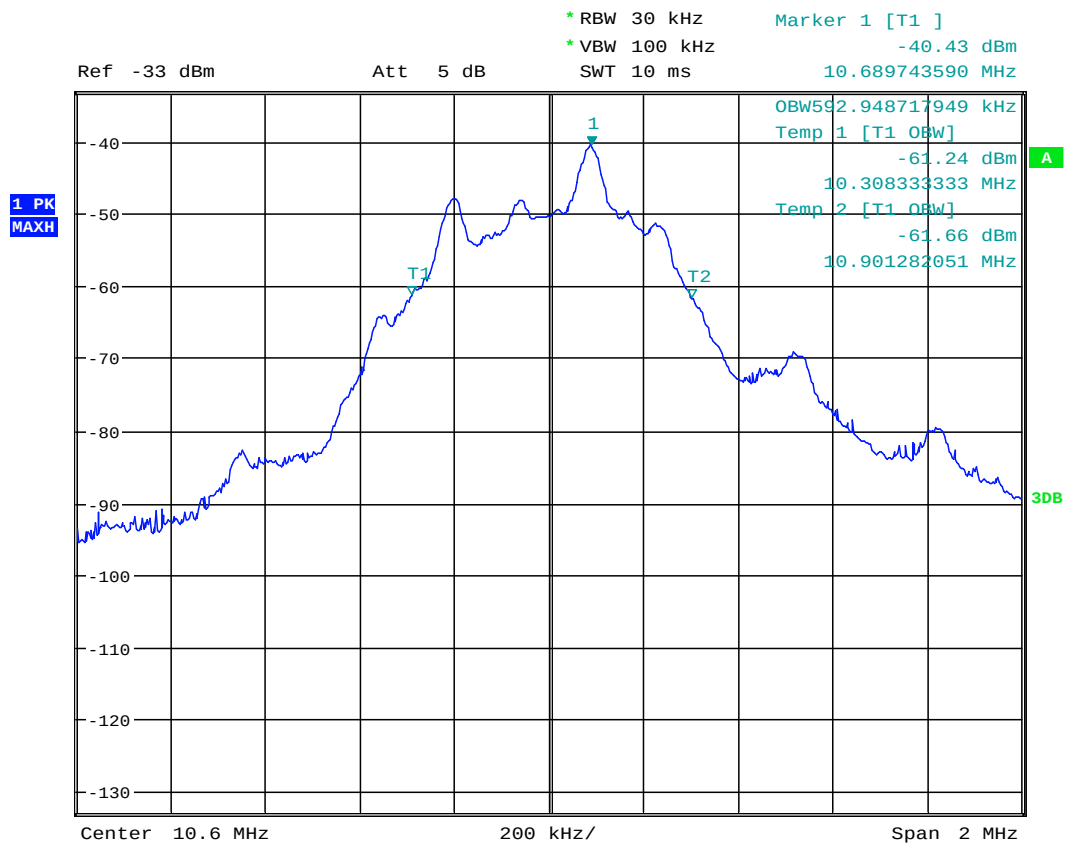


Occupied Bandwidth

Date: 4.JUN.2014 16:50:24

20 dB bandwidth

Plot 2



Occupied Bandwidth

Date: 4.JUN.2014 16:51:31



4.0 Document History

Revision/ Job Number	Writer Initials	Reviewer Initials	Date	Change
1.0 / G101656634	AS	KK	June 25, 2014	Original document
1.1/ G101656634	AS	KK	July 10, 2014	Modified EUT description and operation per customers comments