



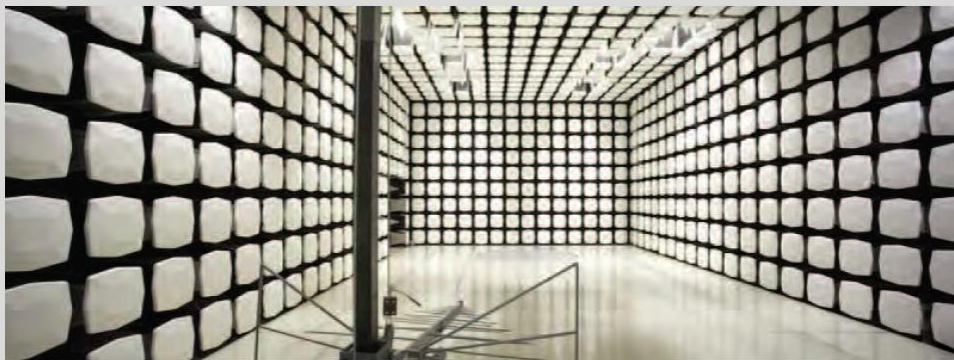
## **IntriCon Corporation**

**L200B Wireless Hearing Aid**

**FCC 15.247:2017**

**Bluetooth Radio**

**Report # INCN0002.1**



NVLAP Lab Code: 200881-0

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# CERTIFICATE OF TEST

Last Date of Test: April 10, 2017  
IntriCon Corporation  
Model: L200B

## Radio Equipment Testing

### Standards

| Specification   | Method                       |
|-----------------|------------------------------|
| FCC 15.247:2017 | ANSI C63.10:2013, KDB 558074 |

### Results

| Method Clause                 | Test Description              | Applied | Results | Comments                                |
|-------------------------------|-------------------------------|---------|---------|-----------------------------------------|
| 6.2                           | Powerline Conducted Emissions | No      | N/A     | Not required for a battery powered EUT. |
| 11.12.1,<br>11.13.2, 6.5, 6.6 | Spurious Radiated Emissions   | Yes     | Pass    |                                         |
| 11.6                          | Duty Cycle                    | Yes     | Pass    |                                         |
| 11.8.2                        | Occupied Bandwidth            | Yes     | Pass    |                                         |
| 11.9.1.1                      | Output Power                  | Yes     | Pass    |                                         |
| 11.10.2                       | Power Spectral Density        | Yes     | Pass    |                                         |
| 11.11                         | Band Edge Compliance          | Yes     | Pass    |                                         |
| 11.11                         | Spurious Conducted Emissions  | Yes     | Pass    |                                         |

### Deviations From Test Standards

None

### Approved By:

Matt Nuernberg, Operations Manager

*Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.*

# REVISION HISTORY



| Revision Number | Description | Date | Page Number |
|-----------------|-------------|------|-------------|
| 00              | None        |      |             |

# ACCREDITATIONS AND AUTHORIZATIONS



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## United States

**FCC** - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

**A2LA** - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Element to certify transmitters to FCC and IC specifications.

**NVLAP** - Each laboratory is accredited by NVLAP to ISO 17025

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## Canada

**ISED** - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with ISED.

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## European Union

**European Commission** – Validated by the European Commission as a Notified Body under the R&TTE Directive.

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## Australia/New Zealand

**ACMA** - Recognized by ACMA as a CAB for the acceptance of test data.

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## Korea

**MSIP / RRA** - Recognized by KCC's RRA as a CAB for the acceptance of test data.

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## Japan

**VCCI** - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

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## Taiwan

**BSMI** – Recognized by BSMI as a CAB for the acceptance of test data.

**NCC** - Recognized by NCC as a CAB for the acceptance of test data.

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## Singapore

**IDA** – Recognized by IDA as a CAB for the acceptance of test data.

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## Israel

**MOC** – Recognized by MOC as a CAB for the acceptance of test data.

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## Hong Kong

**OFCA** – Recognized by OFCA as a CAB for the acceptance of test data.

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## Vietnam

**MIC** – Recognized by MIC as a CAB for the acceptance of test data.

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## SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://portlandcustomer.element.com/ts/scope/scope.htm>

<http://gsi.nist.gov/global/docs/cabs/designations.html>

# MEASUREMENT UNCERTAINTY



## Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

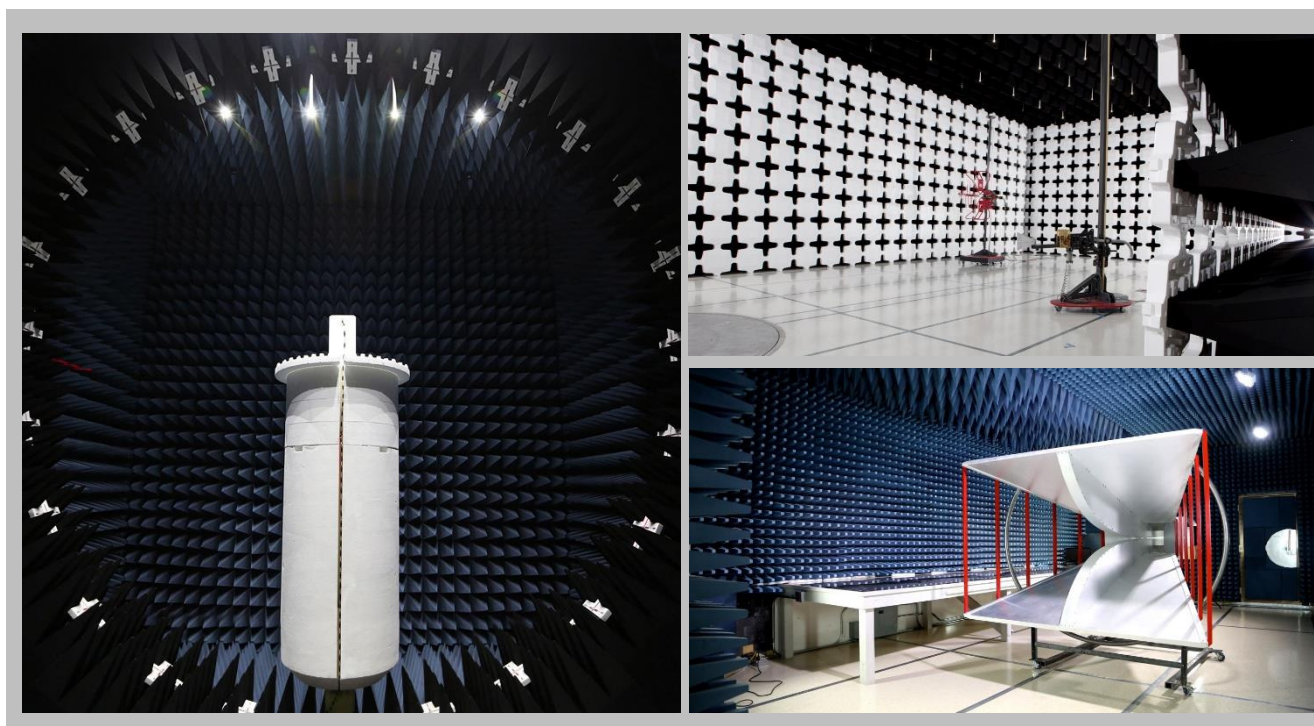
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

| Test                                  | + MU    | - MU     |
|---------------------------------------|---------|----------|
| Frequency Accuracy (Hz)               | 0.0007% | -0.0007% |
| Amplitude Accuracy (dB)               | 1.2 dB  | -1.2 dB  |
| Conducted Power (dB)                  | 0.3 dB  | -0.3 dB  |
| Radiated Power via Substitution (dB)  | 0.7 dB  | -0.7 dB  |
| Temperature (degrees C)               | 0.7°C   | -0.7°C   |
| Humidity (% RH)                       | 2.5% RH | -2.5% RH |
| Voltage (AC)                          | 1.0%    | -1.0%    |
| Voltage (DC)                          | 0.7%    | -0.7%    |
| Field Strength (dB)                   | 5.2 dB  | -5.2 dB  |
| AC Powerline Conducted Emissions (dB) | 2.4 dB  | -2.4 dB  |

# FACILITIES

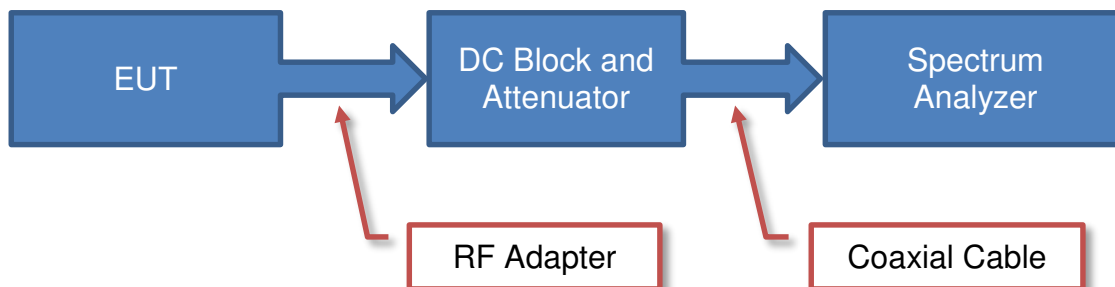


|                                                                                     |                                                                                                             |                                                                                            |                                                                                                   |                                                                                        |                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>California</b><br>Labs OC01-13<br>41 Tesla<br>Irvine, CA 92618<br>(949) 861-8918 | <b>Minnesota</b><br>Labs MN01-08, MN10<br>9349 W Broadway Ave.<br>Brooklyn Park, MN 55445<br>(612)-638-5136 | <b>New York</b><br>Labs NY01-04<br>4939 Jordan Rd.<br>Elbridge, NY 13060<br>(315) 554-8214 | <b>Oregon</b><br>Labs EV01-12<br>22975 NW Evergreen Pkwy<br>Hillsboro, OR 97124<br>(503) 844-4066 | <b>Texas</b><br>Labs TX01-09<br>3801 E Plano Pkwy<br>Plano, TX 75074<br>(469) 304-5255 | <b>Washington</b><br>Labs NC01-05<br>19201 120 <sup>th</sup> Ave NE<br>Bothell, WA 98011<br>(425)984-6600 |
| <b>NVLAP</b>                                                                        |                                                                                                             |                                                                                            |                                                                                                   |                                                                                        |                                                                                                           |
| NVLAP Lab Code: 200676-0                                                            | NVLAP Lab Code: 200881-0                                                                                    | NVLAP Lab Code: 200761-0                                                                   | NVLAP Lab Code: 200630-0                                                                          | NVLAP Lab Code:201049-0                                                                | NVLAP Lab Code: 200629-0                                                                                  |
| <b>Innovation, Science and Economic Development Canada</b>                          |                                                                                                             |                                                                                            |                                                                                                   |                                                                                        |                                                                                                           |
| 2834B-1, 2834B-3                                                                    | 2834E-1                                                                                                     | N/A                                                                                        | 2834D-1, 2834D-2                                                                                  | 2834G-1                                                                                | 2834F-1                                                                                                   |
| <b>BSMI</b>                                                                         |                                                                                                             |                                                                                            |                                                                                                   |                                                                                        |                                                                                                           |
| SL2-IN-E-1154R                                                                      | SL2-IN-E-1152R                                                                                              | N/A                                                                                        | SL2-IN-E-1017                                                                                     | SL2-IN-E-1158R                                                                         | SL2-IN-E-1153R                                                                                            |
| <b>VCCI</b>                                                                         |                                                                                                             |                                                                                            |                                                                                                   |                                                                                        |                                                                                                           |
| A-0029                                                                              | A-0109                                                                                                      | N/A                                                                                        | A-0108                                                                                            | A-0201                                                                                 | A-0110                                                                                                    |
| <b>Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA</b>     |                                                                                                             |                                                                                            |                                                                                                   |                                                                                        |                                                                                                           |
| US0158                                                                              | US0175                                                                                                      | N/A                                                                                        | US0017                                                                                            | US0191                                                                                 | US0157                                                                                                    |

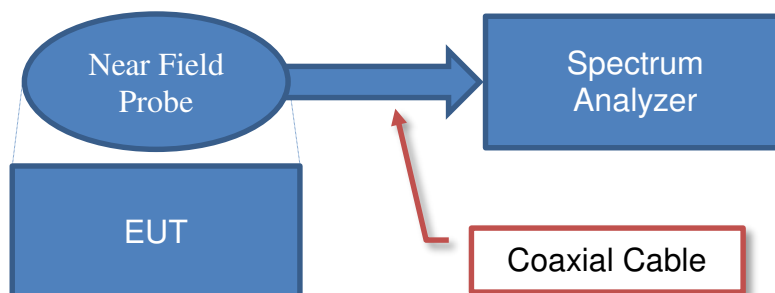


# Test Setup Block Diagrams

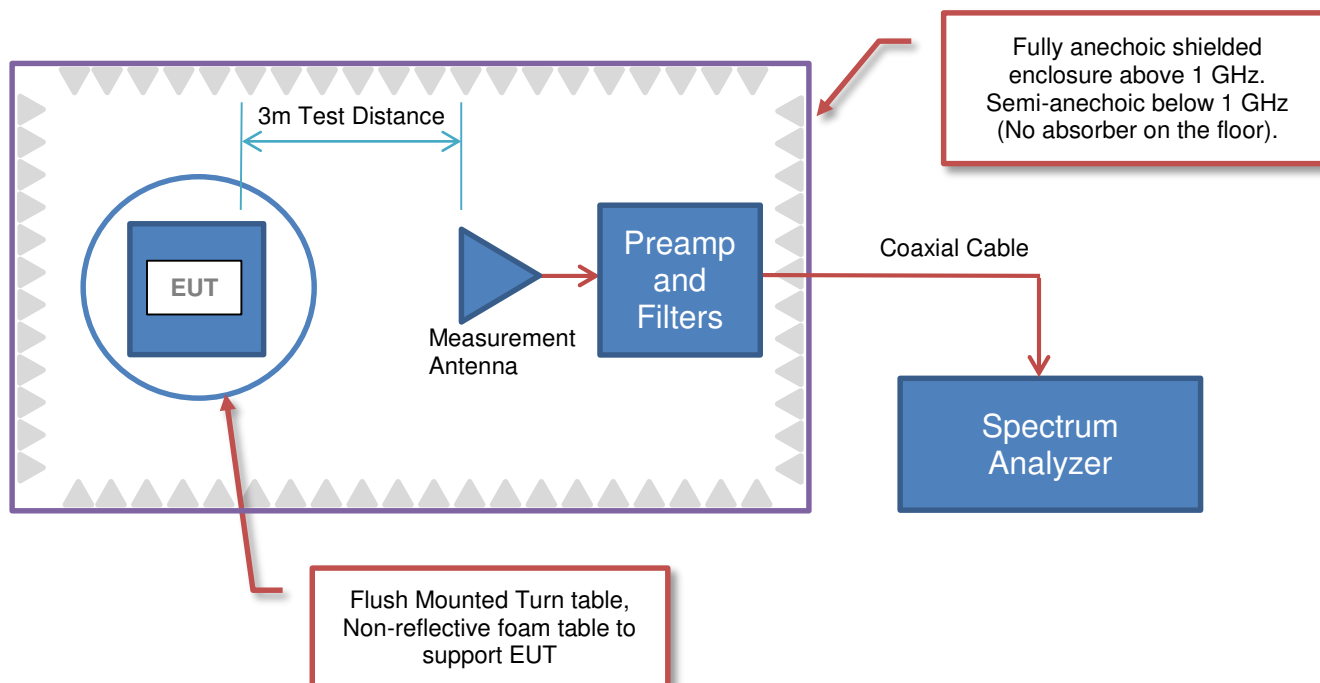
## Antenna Port Conducted Measurements



## Near Field Test Fixture Measurements



## Spurious Radiated Emissions





# PRODUCT DESCRIPTION

## Client and Equipment Under Test (EUT) Information

|                                 |                      |
|---------------------------------|----------------------|
| <b>Company Name:</b>            | IntriCon Corporation |
| <b>Address:</b>                 | 1260 Red Fox Road    |
| <b>City, State, Zip:</b>        | Saint Paul, MN 55112 |
| <b>Test Requested By:</b>       | Curt McNamara        |
| <b>Model:</b>                   | L200B                |
| <b>First Date of Test:</b>      | April 6, 2017        |
| <b>Last Date of Test:</b>       | April 10, 2017       |
| <b>Receipt Date of Samples:</b> | April 5, 2017        |
| <b>Equipment Design Stage:</b>  | Production           |
| <b>Equipment Condition:</b>     | No Damage            |
| <b>Purchase Authorization:</b>  | Verified             |

## Information Provided by the Party Requesting the Test

|                                                                              |
|------------------------------------------------------------------------------|
| <b>Functional Description of the EUT:</b>                                    |
| L200B Wireless Hearing Aid utilizing a Bluetooth Low Energy Radio.           |
| <b>Testing Objective:</b>                                                    |
| To demonstrate compliance of the Bluetooth radio to FCC 15.247 requirements. |

# CONFIGURATIONS



## Configuration INCN0002- 1

| EUT                        |                      |                   |               |
|----------------------------|----------------------|-------------------|---------------|
| Description                | Manufacturer         | Model/Part Number | Serial Number |
| L200B Wireless Hearing Aid | IntriCon Corporation | 93136-000         | 17021340      |

| Peripherals in test setup boundary |                      |                   |               |
|------------------------------------|----------------------|-------------------|---------------|
| Description                        | Manufacturer         | Model/Part Number | Serial Number |
| FOB                                | IntriCon Corporation | 93153-000         | 17000041      |

## Configuration INCN0002- 4

| EUT                        |                      |                   |               |
|----------------------------|----------------------|-------------------|---------------|
| Description                | Manufacturer         | Model/Part Number | Serial Number |
| L200B Wireless Hearing Aid | IntriCon Corporation | 93136-000         | 17021314      |

| Cables                 |        |            |         |              |                  |
|------------------------|--------|------------|---------|--------------|------------------|
| Cable Type             | Shield | Length (m) | Ferrite | Connection 1 | Connection 2     |
| DC Cable (Hearing Aid) | No     | 0.65m      | No      | Hearing Aid  | 1.5V AAA Battery |

# MODIFICATIONS



## Equipment Modifications

| Item | Date      | Test                         | Modification                         | Note                                                                | Disposition of EUT                                               |
|------|-----------|------------------------------|--------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------|
| 1    | 4/6/2017  | Spurious Radiated Emissions  | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test.                      |
| 2    | 4/10/2017 | Duty Cycle                   | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test.                      |
| 3    | 4/10/2017 | Occupied Bandwidth           | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test.                      |
| 4    | 4/10/2017 | Output Power                 | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT was taken home by the client before the next scheduled test. |
| 5    | 4/10/2017 | Power Spectral Density       | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test.                      |
| 6    | 4/10/2017 | Band Edge Compliance         | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test.                      |
| 7    | 4/10/2017 | Spurious Conducted Emissions | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed.                                 |

# SPURIOUS RADIATED EMISSIONS



PSA-ESCI 2017.01.26

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

## MODES OF OPERATION

Left/Right Hearing Aids Transmitting at Mid Ch. (2440)MHz.

Left/Right Hearing Aids Transmitting at High Ch. (2480)MHz.

Left/Right Hearing Aids Transmitting at Low Ch. (2402)MHz.

## POWER SETTINGS INVESTIGATED

Battery

## CONFIGURATIONS INVESTIGATED

INCN0002 - 1

## FREQUENCY RANGE INVESTIGATED

|                 |        |                |           |
|-----------------|--------|----------------|-----------|
| Start Frequency | 30 MHz | Stop Frequency | 26000 MHz |
|-----------------|--------|----------------|-----------|

## SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model                             | ID  | Last Cal. | Interval |
|------------------------------|--------------------|-----------------------------------|-----|-----------|----------|
| Attenuator                   | Fairview Microwave | SA18E-20                          | TWZ | 9/23/2016 | 12 mo    |
| Analyzer - Spectrum Analyzer | Agilent            | N9010A                            | AFI | 1/6/2017  | 12 mo    |
| Cable                        | Element            | 18-26GHz Standard Gain Horn Cable | MNP | 9/15/2016 | 12 mo    |
| Cable                        | ESM Cable Corp.    | Standard Gain Horn Cables         | MNJ | 7/29/2016 | 12 mo    |
| Cable                        | ESM Cable Corp.    | Double Ridge Guide Horn Cables    | MNI | 12/1/2016 | 12 mo    |
| Cable                        | ESM Cable Corp.    | Bilog Cables                      | MNH | 12/1/2016 | 12 mo    |
| Filter - Low Pass            | Micro-Tronics      | LPM50004                          | LFK | 9/22/2016 | 12 mo    |
| Filter - High Pass           | Micro-Tronics      | HPM50111                          | LFN | 9/23/2016 | 12 mo    |
| Amplifier - Pre-Amplifier    | Miteq              | JSD4-18002600-26-8P               | APU | 9/15/2016 | 12 mo    |
| Antenna - Standard Gain      | ETS Lindgren       | 3160-09                           | AHG | NCR       | 0 mo     |
| Antenna - Standard Gain      | ETS Lindgren       | 3160-07                           | AXP | NCR       | 0 mo     |
| Amplifier - Pre-Amplifier    | Miteq              | AMF-3D-00100800-32-13P            | AVT | 2/14/2017 | 12 mo    |
| Antenna - Double Ridge       | ETS Lindgren       | 3115                              | AJA | 6/23/2016 | 24 mo    |
| Amplifier - Pre-Amplifier    | Miteq              | AM-1616-1000                      | AVO | 12/1/2016 | 12 mo    |
| Antenna - Biconilog          | Teseq              | CBL 6141B                         | AYD | 1/6/2016  | 24 mo    |
| Antenna - Standard Gain      | ETS Lindgren       | 3160-08                           | AIQ | NCR       | 0 mo     |
| Amplifier - Pre-Amplifier    | Miteq              | AMF-6F-12001800-30-10P            | AVW | 2/14/2017 | 12 mo    |
| Amplifier - Pre-Amplifier    | Miteq              | AMF-6F-08001200-30-10P            | AVV | 2/14/2017 | 12 mo    |

## MEASUREMENT BANDWIDTHS

| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|-----------------------|-----------------|-----------------------|--------------------|
| 0.01 - 0.15           | 1.0             | 0.2                   | 0.2                |
| 0.15 - 30.0           | 10.0            | 9.0                   | 9.0                |
| 30.0 - 1000           | 100.0           | 120.0                 | 120.0              |
| Above 1000            | 1000.0          | N/A                   | 1000.0             |

## TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as showed in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector

PK = Peak Detector

AV = RMS Detector

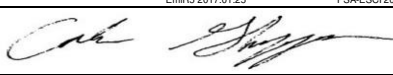
Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show the out-of-band emission level as applied to the limit.

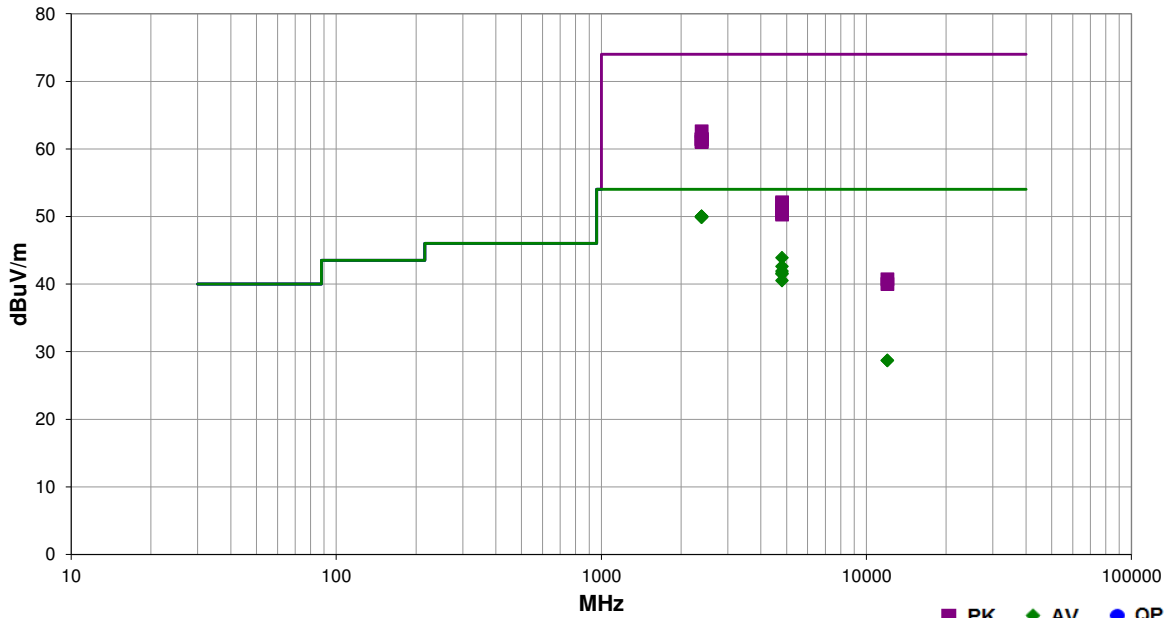
# SPURIOUS RADIATED EMISSIONS



|                 |                                                            |                   |           |                                                                                                                                               |
|-----------------|------------------------------------------------------------|-------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order:     | INCN0002                                                   | Date:             | 04/06/17  | <div>EmiRS 2017.01.25</div> <div>PSA-ESCI 2017.01.26</div>  |
| Project:        | None                                                       | Temperature:      | 21.6 °C   |                                                                                                                                               |
| Job Site:       | MN05                                                       | Humidity:         | 23.5% RH  |                                                                                                                                               |
| Serial Number:  | 17000041                                                   | Barometric Pres.: | 1025 mbar | Tested by: Cole Ghizzone, Chris Patterson                                                                                                     |
| EUT:            | L200B Wireless Hearing Aid                                 |                   |           |                                                                                                                                               |
| Configuration:  | 1                                                          |                   |           |                                                                                                                                               |
| Customer:       | IntriCon Corporation                                       |                   |           |                                                                                                                                               |
| Attendees:      | Andrew Albing                                              |                   |           |                                                                                                                                               |
| EUT Power:      | Battery                                                    |                   |           |                                                                                                                                               |
| Operating Mode: | Left/Right Hearing Aids Transmitting at Low Ch. (2402)MHz. |                   |           |                                                                                                                                               |
| Deviations:     | None                                                       |                   |           |                                                                                                                                               |
| Comments:       | None                                                       |                   |           |                                                                                                                                               |

|                     |                 |             |                  |
|---------------------|-----------------|-------------|------------------|
| Test Specifications | FCC 15.247:2017 | Test Method | ANSI C63.10:2013 |
|---------------------|-----------------|-------------|------------------|

|       |   |                   |   |                   |           |         |      |
|-------|---|-------------------|---|-------------------|-----------|---------|------|
| Run # | 7 | Test Distance (m) | 3 | Antenna Height(s) | 1 to 4(m) | Results | Pass |
|-------|---|-------------------|---|-------------------|-----------|---------|------|



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Antenna Height (meters) | Azimuth (degrees) | Test Distance (meters) | External Attenuation (dB) | Polarity/Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                 |
|------------|------------------|-------------|-------------------------|-------------------|------------------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|--------------------------|
| 2388.977   | 32.3             | -2.3        | 1.0                     | 32.0              | 3.0                    | 20.0                      | Horz                     | AV       | 0.0                      | 50.0              | 54.0                 | -4.0                   | EUT Horz, Low Ch, BLE    |
| 2389.482   | 32.3             | -2.3        | 1.0                     | 270.0             | 3.0                    | 20.0                      | Vert                     | AV       | 0.0                      | 50.0              | 54.0                 | -4.0                   | EUT Horz, Low Ch, BLE    |
| 2389.320   | 32.3             | -2.3        | 1.0                     | 167.1             | 3.0                    | 20.0                      | Horz                     | AV       | 0.0                      | 50.0              | 54.0                 | -4.0                   | EUT on Side, Low Ch, BLE |
| 2389.333   | 32.2             | -2.3        | 1.0                     | 122.0             | 3.0                    | 20.0                      | Vert                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT on Side, Low Ch, BLE |
| 2389.425   | 32.2             | -2.3        | 1.0                     | 213.1             | 3.0                    | 20.0                      | Horz                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT Vert, Low Ch, BLE    |
| 2389.228   | 32.2             | -2.3        | 1.0                     | 99.0              | 3.0                    | 20.0                      | Vert                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT Vert, Low Ch, BLE    |
| 4804.058   | 37.3             | 6.6         | 1.0                     | 184.1             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 43.9              | 54.0                 | -10.1                  | EUT Horz, Low Ch, BLE    |
| 4803.975   | 36.0             | 6.6         | 1.0                     | 336.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 42.6              | 54.0                 | -11.4                  | EUT on Side, Low Ch, BLE |
| 2389.282   | 44.9             | -2.3        | 1.0                     | 99.0              | 3.0                    | 20.0                      | Vert                     | PK       | 0.0                      | 62.6              | 74.0                 | -11.4                  | EUT Vert, Low Ch, BLE    |
| 4803.983   | 35.3             | 6.6         | 1.0                     | 292.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 41.9              | 54.0                 | -12.1                  | EUT Vert, Low Ch, BLE    |
| 4804.000   | 35.0             | 6.6         | 1.0                     | 179.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 41.6              | 54.0                 | -12.4                  | EUT Horz, Low Ch, BLE    |
| 4804.283   | 34.9             | 6.6         | 1.0                     | 50.0              | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 41.5              | 54.0                 | -12.5                  | EUT Vert, Low Ch, BLE    |
| 2388.815   | 43.8             | -2.3        | 1.0                     | 122.0             | 3.0                    | 20.0                      | Vert                     | PK       | 0.0                      | 61.5              | 74.0                 | -12.5                  | EUT on Side, Low Ch, BLE |
| 2388.742   | 43.7             | -2.3        | 1.0                     | 167.1             | 3.0                    | 20.0                      | Horz                     | PK       | 0.0                      | 61.4              | 74.0                 | -12.6                  | EUT on Side, Low Ch, BLE |
| 2388.875   | 43.7             | -2.3        | 1.0                     | 213.1             | 3.0                    | 20.0                      | Horz                     | PK       | 0.0                      | 61.4              | 74.0                 | -12.6                  | EUT Vert, Low Ch, BLE    |
| 2389.217   | 43.4             | -2.3        | 1.0                     | 32.0              | 3.0                    | 20.0                      | Horz                     | PK       | 0.0                      | 61.1              | 74.0                 | -12.9                  | EUT Horz, Low Ch, BLE    |
| 2389.337   | 43.3             | -2.3        | 1.0                     | 270.0             | 3.0                    | 20.0                      | Vert                     | PK       | 0.0                      | 61.0              | 74.0                 | -13.0                  | EUT Horz, Low Ch, BLE    |
| 4804.108   | 33.9             | 6.6         | 1.0                     | 274.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 40.5              | 54.0                 | -13.5                  | EUT on Side, Low Ch, BLE |
| 4803.983   | 45.5             | 6.6         | 1.0                     | 336.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 52.1              | 74.0                 | -21.9                  | EUT on Side, Low Ch, BLE |
| 4804.383   | 45.3             | 6.6         | 1.0                     | 184.1             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 51.9              | 74.0                 | -22.1                  | EUT Horz, Low Ch, BLE    |

| Freq<br>(MHz) | Amplitude<br>(dBuV) | Factor<br>(dB) | Antenna Height<br>(meters) | Azimuth<br>(degrees) | Test Distance<br>(meters) | External<br>Attenuation<br>(dB) | Polarity/<br>Transducer<br>Type | Detector | Distance<br>Adjustment<br>(dB) | Adjusted<br>(dBuV/m) | Spec. Limit<br>(dBuV/m) | Compared to<br>Spec.<br>(dB) | Comments                 |
|---------------|---------------------|----------------|----------------------------|----------------------|---------------------------|---------------------------------|---------------------------------|----------|--------------------------------|----------------------|-------------------------|------------------------------|--------------------------|
| 4804.533      | 44.3                | 6.6            | 1.0                        | 292.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 50.9                 | 74.0                    | -23.1                        | EUT Vert, Low Ch, BLE    |
| 4804.383      | 44.2                | 6.6            | 1.0                        | 274.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 50.8                 | 74.0                    | -23.2                        | EUT on Side, Low Ch, BLE |
| 4803.642      | 43.9                | 6.6            | 1.0                        | 179.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 50.5                 | 74.0                    | -23.5                        | EUT Horz, Low Ch, BLE    |
| 4804.225      | 43.7                | 6.6            | 1.0                        | 50.0                 | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 50.3                 | 74.0                    | -23.7                        | EUT Vert, Low Ch, BLE    |
| 12007.600     | 29.7                | -1.0           | 1.0                        | 62.1                 | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 28.7                 | 54.0                    | -25.3                        | EUT Horz, Low Ch, BLE    |
| 12007.720     | 29.7                | -1.0           | 1.6                        | 234.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 28.7                 | 54.0                    | -25.3                        | EUT on Side, Low Ch, BLE |
| 12012.030     | 41.7                | -1.0           | 1.6                        | 234.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 40.7                 | 74.0                    | -33.3                        | EUT on Side, Low Ch, BLE |
| 12008.180     | 41.0                | -1.0           | 1.0                        | 62.1                 | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 40.0                 | 74.0                    | -34.0                        | EUT Horz, Low Ch, BLE    |

# SPURIOUS RADIATED EMISSIONS



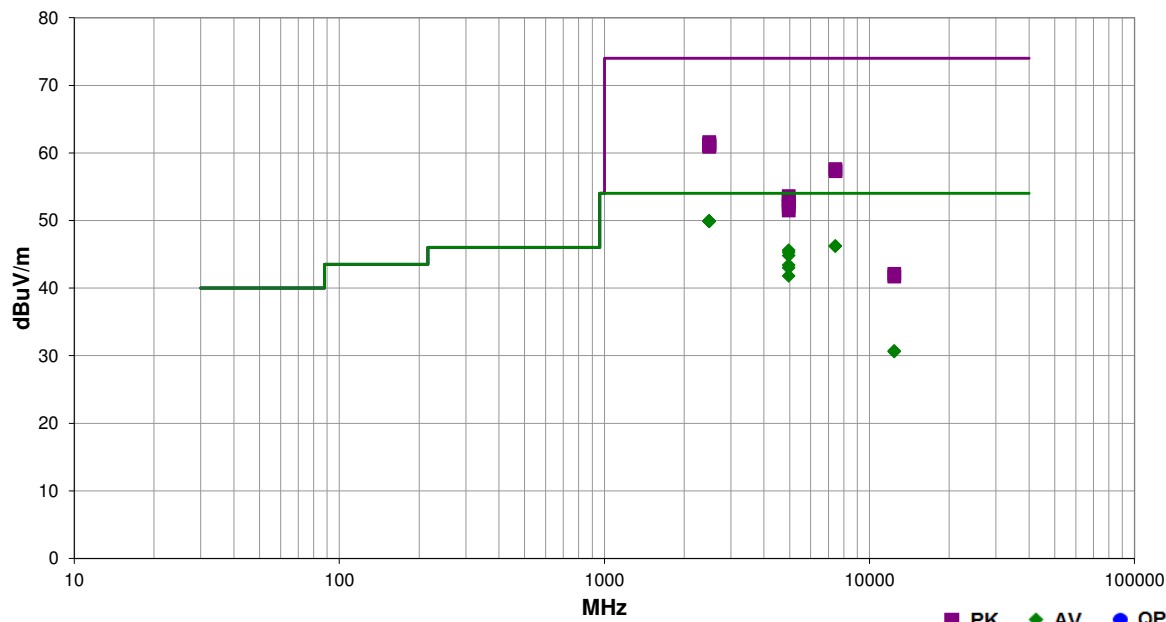
EmiRS 2017.01.25

PSA-ESCI 2017.01.26

|                 |                                                             |                   |           |                                                                                    |                                |
|-----------------|-------------------------------------------------------------|-------------------|-----------|------------------------------------------------------------------------------------|--------------------------------|
| Work Order:     | INCN0002                                                    | Date:             | 04/06/17  |  |                                |
| Project:        | None                                                        | Temperature:      | 21.6 °C   |                                                                                    |                                |
| Job Site:       | MN05                                                        | Humidity:         | 23.5% RH  |                                                                                    |                                |
| Serial Number:  | 17000041                                                    | Barometric Pres.: | 1025 mbar | Tested by:                                                                         | Cole Ghizzone, Chris Patterson |
| EUT:            | L200B Wireless Hearing Aid                                  |                   |           |                                                                                    |                                |
| Configuration:  | 1                                                           |                   |           |                                                                                    |                                |
| Customer:       | IntriCon Corporation                                        |                   |           |                                                                                    |                                |
| Attendees:      | Andrew Albing                                               |                   |           |                                                                                    |                                |
| EUT Power:      | Battery                                                     |                   |           |                                                                                    |                                |
| Operating Mode: | Left/Right Hearing Aids Transmitting at High Ch. (2480)MHz. |                   |           |                                                                                    |                                |
| Deviations:     | None                                                        |                   |           |                                                                                    |                                |
| Comments:       | None                                                        |                   |           |                                                                                    |                                |

|                     |                 |             |                  |
|---------------------|-----------------|-------------|------------------|
| Test Specifications | FCC 15.247:2017 | Test Method | ANSI C63.10:2013 |
|---------------------|-----------------|-------------|------------------|

|       |    |                   |   |                   |           |         |      |
|-------|----|-------------------|---|-------------------|-----------|---------|------|
| Run # | 14 | Test Distance (m) | 3 | Antenna Height(s) | 1 to 4(m) | Results | Pass |
|-------|----|-------------------|---|-------------------|-----------|---------|------|



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Antenna Height (meters) | Azimuth (degrees) | Test Distance (meters) | External Attenuation (dB) | Polarity/Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                  |
|------------|------------------|-------------|-------------------------|-------------------|------------------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|---------------------------|
| 2484.482   | 32.4             | -2.5        | 1.0                     | 178.1             | 3.0                    | 20.0                      | Horz                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT Horz, High Ch, BLE    |
| 2484.152   | 32.4             | -2.5        | 3.5                     | 205.0             | 3.0                    | 20.0                      | Vert                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT Horz, High Ch, BLE    |
| 2484.813   | 32.4             | -2.5        | 1.0                     | 111.0             | 3.0                    | 20.0                      | Horz                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT on Side, High Ch, BLE |
| 2484.152   | 32.4             | -2.5        | 1.0                     | 239.0             | 3.0                    | 20.0                      | Vert                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT on Side, High Ch, BLE |
| 2484.153   | 32.4             | -2.5        | 1.0                     | 173.1             | 3.0                    | 20.0                      | Horz                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT Vert, High Ch, BLE    |
| 2484.687   | 32.4             | -2.5        | 1.0                     | 268.9             | 3.0                    | 20.0                      | Vert                     | AV       | 0.0                      | 49.9              | 54.0                 | -4.1                   | EUT Vert, High Ch, BLE    |
| 7440.467   | 31.2             | 15.0        | 1.7                     | 92.0              | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 46.2              | 54.0                 | -7.8                   | EUT Horz, High Ch, BLE    |
| 7439.792   | 31.2             | 15.0        | 1.0                     | 52.1              | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 46.2              | 54.0                 | -7.8                   | EUT on Side, High Ch, BLE |
| 4959.958   | 38.8             | 6.8         | 2.6                     | 292.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 45.6              | 54.0                 | -8.4                   | EUT on Side, High Ch, BLE |
| 4959.992   | 38.5             | 6.8         | 3.4                     | 253.9             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 45.3              | 54.0                 | -8.7                   | EUT Horz, High Ch, BLE    |
| 4959.975   | 38.0             | 6.8         | 1.0                     | 60.0              | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 44.8              | 54.0                 | -9.2                   | EUT Horz, High Ch, BLE    |
| 4960.125   | 36.6             | 6.8         | 1.0                     | 229.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 43.4              | 54.0                 | -10.6                  | EUT Vert, High Ch, BLE    |
| 4960.042   | 36.2             | 6.8         | 1.0                     | 7.0               | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 43.0              | 54.0                 | -11.0                  | EUT on Side, High Ch, BLE |
| 4960.117   | 35.0             | 6.8         | 1.8                     | 329.9             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 41.8              | 54.0                 | -12.2                  | EUT Vert, High Ch, BLE    |
| 2484.022   | 44.1             | -2.5        | 1.0                     | 178.1             | 3.0                    | 20.0                      | Horz                     | PK       | 0.0                      | 61.6              | 74.0                 | -12.4                  | EUT Horz, High Ch, BLE    |
| 2484.150   | 43.9             | -2.5        | 1.0                     | 111.0             | 3.0                    | 20.0                      | Horz                     | PK       | 0.0                      | 61.4              | 74.0                 | -12.6                  | EUT on Side, High Ch, BLE |
| 2484.482   | 43.7             | -2.5        | 3.5                     | 205.0             | 3.0                    | 20.0                      | Vert                     | PK       | 0.0                      | 61.2              | 74.0                 | -12.8                  | EUT Horz, High Ch, BLE    |
| 2484.347   | 43.6             | -2.5        | 1.0                     | 239.0             | 3.0                    | 20.0                      | Vert                     | PK       | 0.0                      | 61.1              | 74.0                 | -12.9                  | EUT on Side, High Ch, BLE |
| 2484.877   | 43.6             | -2.5        | 1.0                     | 173.1             | 3.0                    | 20.0                      | Horz                     | PK       | 0.0                      | 61.1              | 74.0                 | -12.9                  | EUT Vert, High Ch, BLE    |
| 2484.038   | 43.4             | -2.5        | 1.0                     | 268.9             | 3.0                    | 20.0                      | Vert                     | PK       | 0.0                      | 60.9              | 74.0                 | -13.1                  | EUT Vert, High Ch, BLE    |

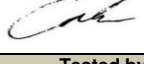
| Freq<br>(MHz) | Amplitude<br>(dBuV) | Factor<br>(dB) | Antenna Height<br>(meters) | Azimuth<br>(degrees) | Test Distance<br>(meters) | External<br>Attenuation<br>(dB) | Polarity/<br>Transducer<br>Type | Detector | Distance<br>Adjustment<br>(dB) | Adjusted<br>(dBuV/m) | Spec. Limit<br>(dBuV/m) | Compared to<br>Spec.<br>(dB) | Comments                  |
|---------------|---------------------|----------------|----------------------------|----------------------|---------------------------|---------------------------------|---------------------------------|----------|--------------------------------|----------------------|-------------------------|------------------------------|---------------------------|
| 7438.458      | 42.6                | 15.0           | 1.7                        | 92.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 57.6                 | 74.0                    | -16.4                        | EUT Horz, High Ch, BLE    |
| 7442.417      | 42.3                | 15.0           | 1.0                        | 52.1                 | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 57.3                 | 74.0                    | -16.7                        | EUT on Side, High Ch, BLE |
| 4960.408      | 46.8                | 6.8            | 2.6                        | 292.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 53.6                 | 74.0                    | -20.4                        | EUT on Side, High Ch, BLE |
| 4960.458      | 46.3                | 6.8            | 1.0                        | 60.0                 | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 53.1                 | 74.0                    | -20.9                        | EUT Horz, High Ch, BLE    |
| 4960.508      | 46.1                | 6.8            | 3.4                        | 253.9                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 52.9                 | 74.0                    | -21.1                        | EUT Horz, High Ch, BLE    |
| 4959.450      | 45.6                | 6.8            | 1.0                        | 229.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 52.4                 | 74.0                    | -21.6                        | EUT Vert, High Ch, BLE    |
| 4960.392      | 45.3                | 6.8            | 1.0                        | 7.0                  | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 52.1                 | 74.0                    | -21.9                        | EUT on Side, High Ch, BLE |
| 4959.450      | 44.7                | 6.8            | 1.8                        | 329.9                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 51.5                 | 74.0                    | -22.5                        | EUT Vert, High Ch, BLE    |
| 12398.110     | 29.8                | 0.9            | 1.0                        | 165.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 30.7                 | 54.0                    | -23.3                        | EUT on Side, High Ch, BLE |
| 12399.670     | 29.7                | 0.9            | 3.5                        | 257.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 30.6                 | 54.0                    | -23.4                        | EUT Horz, High Ch, BLE    |
| 12399.450     | 41.2                | 0.9            | 1.0                        | 165.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 42.1                 | 74.0                    | -31.9                        | EUT on Side, High Ch, BLE |
| 12398.980     | 40.8                | 0.9            | 3.5                        | 257.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 41.7                 | 74.0                    | -32.3                        | EUT Horz, High Ch, BLE    |

# SPURIOUS RADIATED EMISSIONS



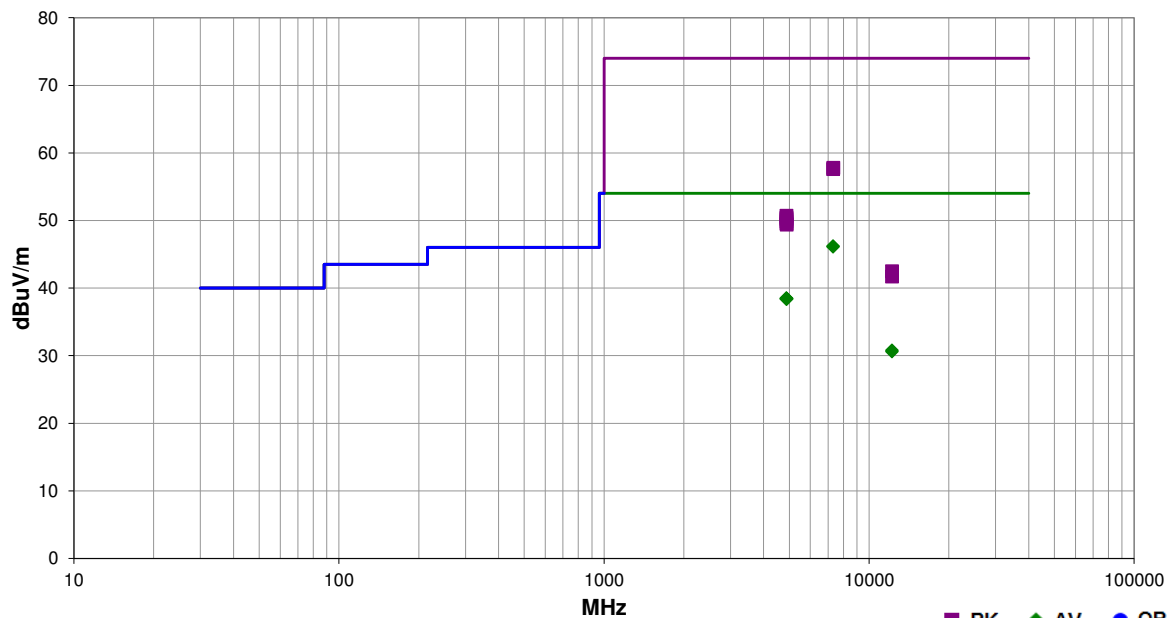
EmiRS 2017.01.25

PSA-ESCI 2017.01.26

|                 |                                                            |                   |           |                                                                                                                                                                        |
|-----------------|------------------------------------------------------------|-------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order:     | INCN0002                                                   | Date:             | 04/06/17  |   |
| Project:        | None                                                       | Temperature:      | 21.6 °C   |                                                                                                                                                                        |
| Job Site:       | MN05                                                       | Humidity:         | 23.5% RH  |                                                                                                                                                                        |
| Serial Number:  | 17000041                                                   | Barometric Pres.: | 1025 mbar | Tested by: Cole Ghizzone, Chris Patterson                                                                                                                              |
| EUT:            | L200B Wireless Hearing Aid                                 |                   |           |                                                                                                                                                                        |
| Configuration:  | 1                                                          |                   |           |                                                                                                                                                                        |
| Customer:       | IntriCon Corporation                                       |                   |           |                                                                                                                                                                        |
| Attendees:      | Andrew Albing                                              |                   |           |                                                                                                                                                                        |
| EUT Power:      | Battery                                                    |                   |           |                                                                                                                                                                        |
| Operating Mode: | Left/Right Hearing Aids Transmitting at Mid Ch. (2442)MHz. |                   |           |                                                                                                                                                                        |
| Deviations:     | None                                                       |                   |           |                                                                                                                                                                        |
| Comments:       | None                                                       |                   |           |                                                                                                                                                                        |

|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.247:2017     | ANSI C63.10:2013 |

|       |    |                   |   |                   |           |         |      |
|-------|----|-------------------|---|-------------------|-----------|---------|------|
| Run # | 20 | Test Distance (m) | 3 | Antenna Height(s) | 1 to 4(m) | Results | Pass |
|-------|----|-------------------|---|-------------------|-----------|---------|------|



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Antenna Height (meters) | Azimuth (degrees) | Test Distance (meters) | External Attenuation (dB) | Polarity/Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                 |
|------------|------------------|-------------|-------------------------|-------------------|------------------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|--------------------------|
| 7317.658   | 31.1             | 15.1        | 1.0                     | 194.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 46.2              | 54.0                 | -7.8                   | EUT Vert, Mid Ch, BLE    |
| 7318.025   | 31.0             | 15.1        | 1.0                     | 119.1             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 46.1              | 54.0                 | -7.9                   | EUT Vert, Mid Ch, BLE    |
| 4879.142   | 31.8             | 6.7         | 1.0                     | 147.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 38.5              | 54.0                 | -15.5                  | EUT Vert, Mid Ch, BLE    |
| 4881.808   | 31.8             | 6.7         | 2.6                     | 109.1             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 38.5              | 54.0                 | -15.5                  | EUT Horz, Mid Ch, BLE    |
| 4882.408   | 31.7             | 6.7         | 1.0                     | 131.1             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 38.4              | 54.0                 | -15.6                  | EUT Vert, Mid Ch, BLE    |
| 4881.525   | 31.7             | 6.7         | 1.0                     | 308.9             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 38.4              | 54.0                 | -15.6                  | EUT on Side, Mid Ch, BLE |
| 4882.492   | 31.7             | 6.7         | 1.0                     | 227.1             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 38.4              | 54.0                 | -15.6                  | EUT on Side, Mid Ch, BLE |
| 4882.083   | 31.7             | 6.7         | 1.6                     | 222.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 38.4              | 54.0                 | -15.6                  | EUT Horz, Mid Ch, BLE    |
| 7321.008   | 42.7             | 15.1        | 1.0                     | 119.1             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 57.8              | 74.0                 | -16.2                  | EUT Vert, Mid Ch, BLE    |
| 7320.292   | 42.5             | 15.1        | 1.0                     | 194.0             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 57.6              | 74.0                 | -16.4                  | EUT Vert, Mid Ch, BLE    |
| 12198.340  | 30.8             | 0.0         | 1.1                     | 304.9             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 30.8              | 54.0                 | -23.2                  | EUT Vert, Mid Ch, BLE    |
| 4882.017   | 44.0             | 6.7         | 1.6                     | 222.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 50.7              | 74.0                 | -23.3                  | EUT Horz, Mid Ch, BLE    |
| 12197.740  | 30.6             | 0.0         | 2.9                     | 86.0              | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 30.6              | 54.0                 | -23.4                  | EUT Vert, Mid Ch, BLE    |
| 4880.700   | 43.7             | 6.7         | 1.0                     | 227.1             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 50.4              | 74.0                 | -23.6                  | EUT on Side, Mid Ch, BLE |
| 4878.150   | 43.5             | 6.7         | 1.0                     | 147.0             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 50.2              | 74.0                 | -23.8                  | EUT Vert, Mid Ch, BLE    |
| 4878.425   | 43.2             | 6.7         | 1.0                     | 131.1             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 49.9              | 74.0                 | -24.1                  | EUT Vert, Mid Ch, BLE    |
| 4877.650   | 42.9             | 6.7         | 1.0                     | 308.9             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 49.6              | 74.0                 | -24.4                  | EUT on Side, Mid Ch, BLE |
| 4882.408   | 42.7             | 6.7         | 2.6                     | 109.1             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 49.4              | 74.0                 | -24.6                  | EUT Horz, Mid Ch, BLE    |
| 12199.090  | 42.5             | 0.0         | 2.9                     | 86.0              | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 42.5              | 74.0                 | -31.5                  | EUT Vert, Mid Ch, BLE    |
| 12200.000  | 41.7             | 0.0         | 1.1                     | 304.9             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 41.7              | 74.0                 | -32.3                  | EUT Vert, Mid Ch, BLE    |

# DUTY CYCLE



XMI 2017.01.26

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model    | ID  | Last Cal. | Cal. Due  |
|------------------------------|--------------------|----------|-----|-----------|-----------|
| Generator - Signal           | Agilent            | E4422B   | TGQ | 3/17/2015 | 3/17/2018 |
| Attenuator                   | S.M. Electronics   | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Block - DC                   | Fairview Microwave | SD3379   | AMI | 9/15/2016 | 9/15/2017 |
| Analyzer - Spectrum Analyzer | Agilent            | E4440A   | AAX | 3/16/2017 | 3/16/2018 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.

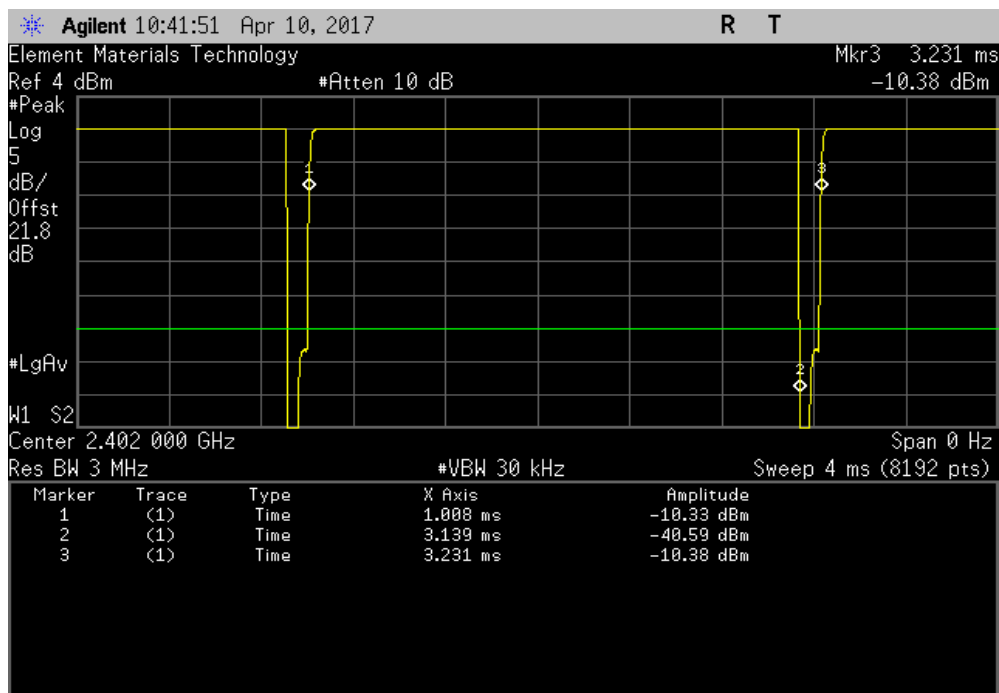
TbtTx 2017.01.27 XMit 2017.01.26

# DUTY CYCLE

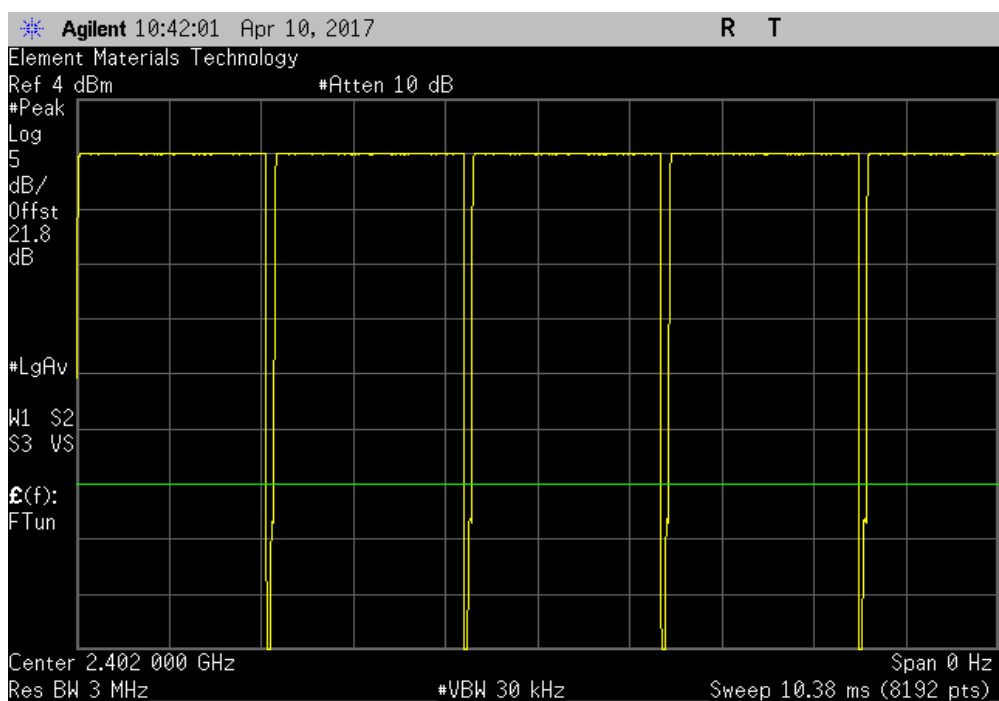


TbTfX 2017.01.27 XMI 2017.01.26

| BLE/GFSK Low Channel, 2402 MHz |             |          |                  |           |           |         |
|--------------------------------|-------------|----------|------------------|-----------|-----------|---------|
|                                | Pulse Width | Period   | Number of Pulses | Value (%) | Limit (%) | Results |
|                                | 2.131 ms    | 2.223 ms | 1                | 95.8      | N/A       | N/A     |



| BLE/GFSK Low Channel, 2402 MHz |             |        |                  |           |           |         |
|--------------------------------|-------------|--------|------------------|-----------|-----------|---------|
|                                | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
|                                | N/A         | N/A    | 5                | N/A       | N/A       | N/A     |

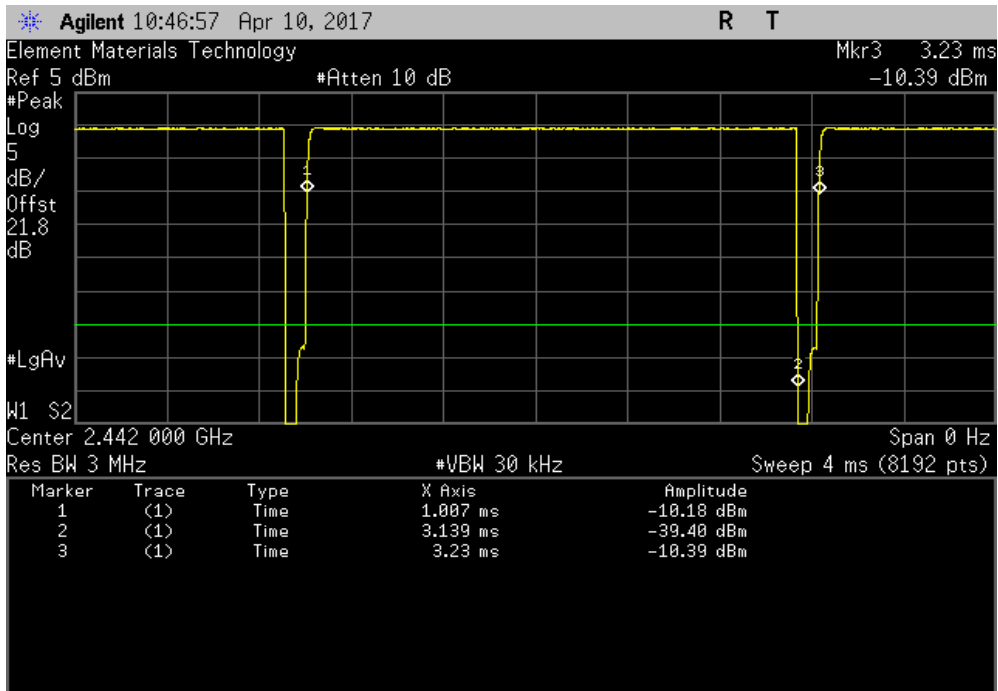


# DUTY CYCLE

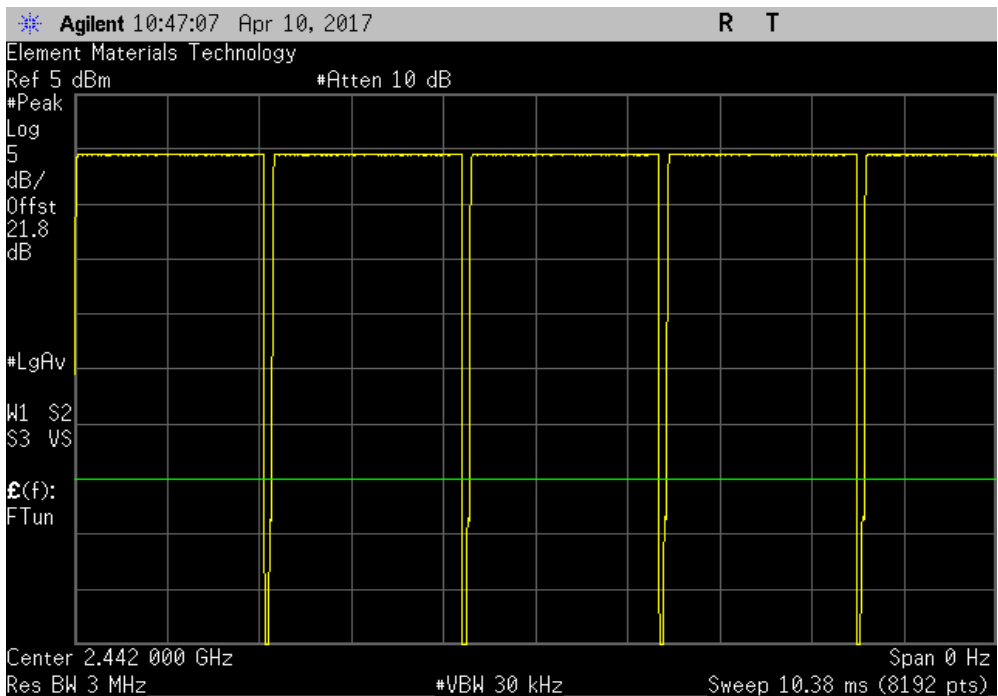


TbTtx 2017.01.27 XMI 2017.01.26

| BLE/GFSK Mid Channel, 2442 MHz |             |          |                  |           |           |         |
|--------------------------------|-------------|----------|------------------|-----------|-----------|---------|
|                                | Pulse Width | Period   | Number of Pulses | Value (%) | Limit (%) | Results |
|                                | 2.131 ms    | 2.223 ms | 1                | 95.9      | N/A       | N/A     |



| BLE/GFSK Mid Channel, 2442 MHz |             |        |                  |           |           |         |
|--------------------------------|-------------|--------|------------------|-----------|-----------|---------|
|                                | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
|                                | N/A         | N/A    | 5                | N/A       | N/A       | N/A     |

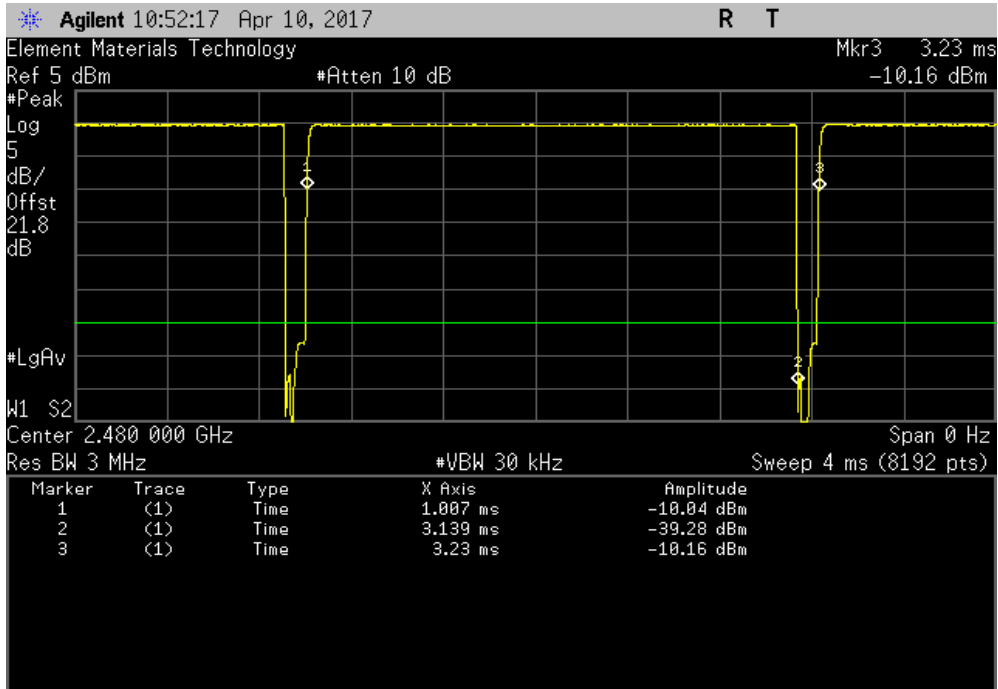


# DUTY CYCLE

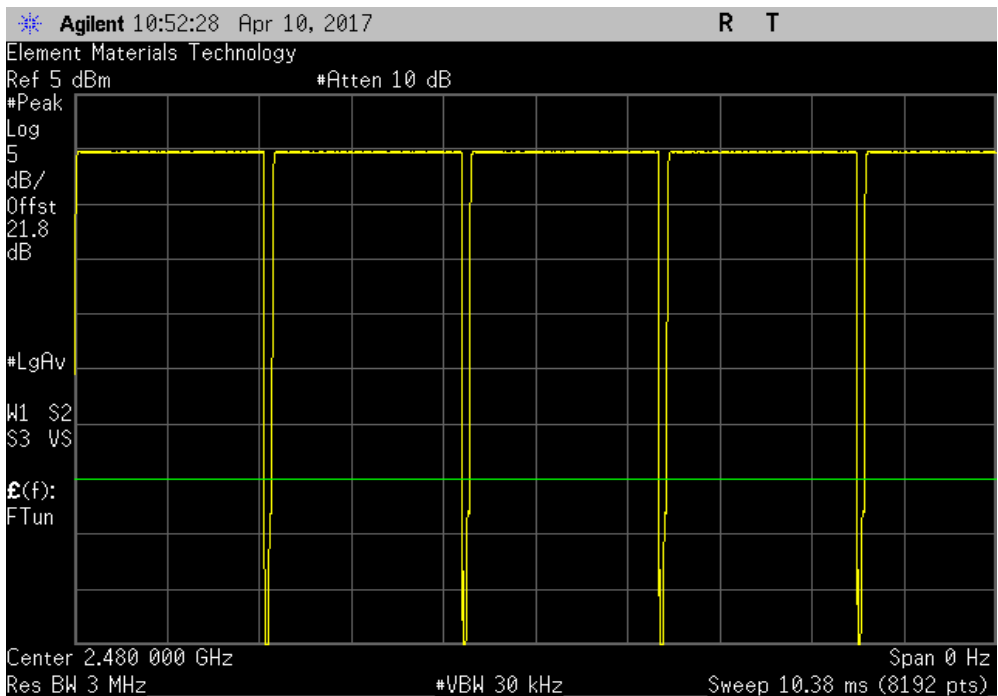


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| BLE/GFSK High Channel, 2480 MHz |             |          |                  |           |           |         |
|---------------------------------|-------------|----------|------------------|-----------|-----------|---------|
|                                 | Pulse Width | Period   | Number of Pulses | Value (%) | Limit (%) | Results |
|                                 | 2.131 ms    | 2.223 ms | 1                | 95.9      | N/A       | N/A     |



| BLE/GFSK High Channel, 2480 MHz |             |        |                  |           |           |         |
|---------------------------------|-------------|--------|------------------|-----------|-----------|---------|
|                                 | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
|                                 | N/A         | N/A    | 5                | N/A       | N/A       | N/A     |



# OCCUPIED BANDWIDTH



XMIT 2017.01.26

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model    | ID  | Last Cal. | Cal. Due  |
|------------------------------|--------------------|----------|-----|-----------|-----------|
| Generator - Signal           | Agilent            | E4422B   | TGQ | 3/17/2015 | 3/17/2018 |
| Attenuator                   | S.M. Electronics   | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Block - DC                   | Fairview Microwave | SD3379   | AMI | 9/15/2016 | 9/15/2017 |
| Analyzer - Spectrum Analyzer | Agilent            | E4440A   | AAX | 3/16/2017 | 3/16/2018 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was set to the channels and modes listed in the datasheet.

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.0% occupied bandwidth was also measured at the same time which can be needed during Output Power depending on the applicable method.

# OCCUPIED BANDWIDTH



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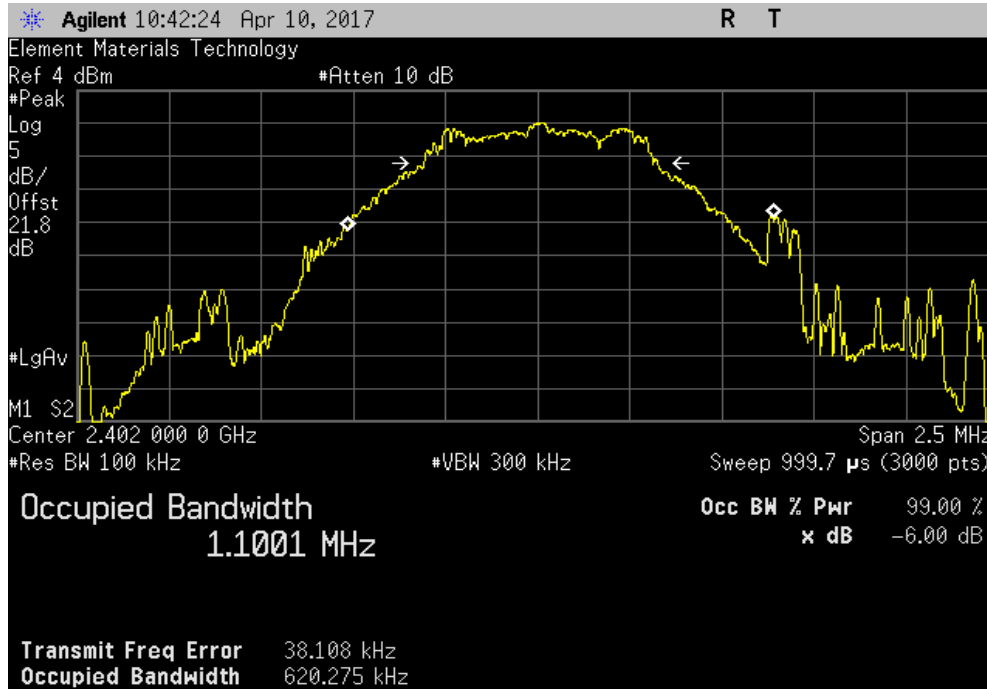
|                                 |                |                                |                  |
|---------------------------------|----------------|--------------------------------|------------------|
| EUT: L200B Wireless Hearing Aid |                | Work Order: INCN0002           |                  |
| Serial Number: 17021314         |                | Date: 04/10/17                 |                  |
| Customer: IntriCon Corporation  |                | Temperature: 22.3 °C           |                  |
| Attendees: Andrew Albing        |                | Humidity: 33.5% RH             |                  |
| Project: None                   |                | Barometric Pres.: 1016 mbar    |                  |
| Tested by: Dustin Sparks        | Power: Battery | Job Site: MN08                 |                  |
| TEST SPECIFICATIONS             |                | Test Method                    |                  |
| FCC 15.247:2017                 |                | ANSI C63.10:2013               |                  |
| COMMENTS                        |                |                                |                  |
| None                            |                |                                |                  |
| DEVIATIONS FROM TEST STANDARD   |                |                                |                  |
| None                            |                |                                |                  |
| Configuration #                 | 4              | Signature <i>Dustin Sparks</i> |                  |
|                                 |                | Value                          | Limit (±) Result |
| BLE/GFSK Low Channel, 2402 MHz  |                | 620.275 kHz                    | 500 kHz Pass     |
| BLE/GFSK Mid Channel, 2442 MHz  |                | 640.447 kHz                    | 500 kHz Pass     |
| BLE/GFSK High Channel, 2480 MHz |                | 647.957 kHz                    | 500 kHz Pass     |

# OCCUPIED BANDWIDTH

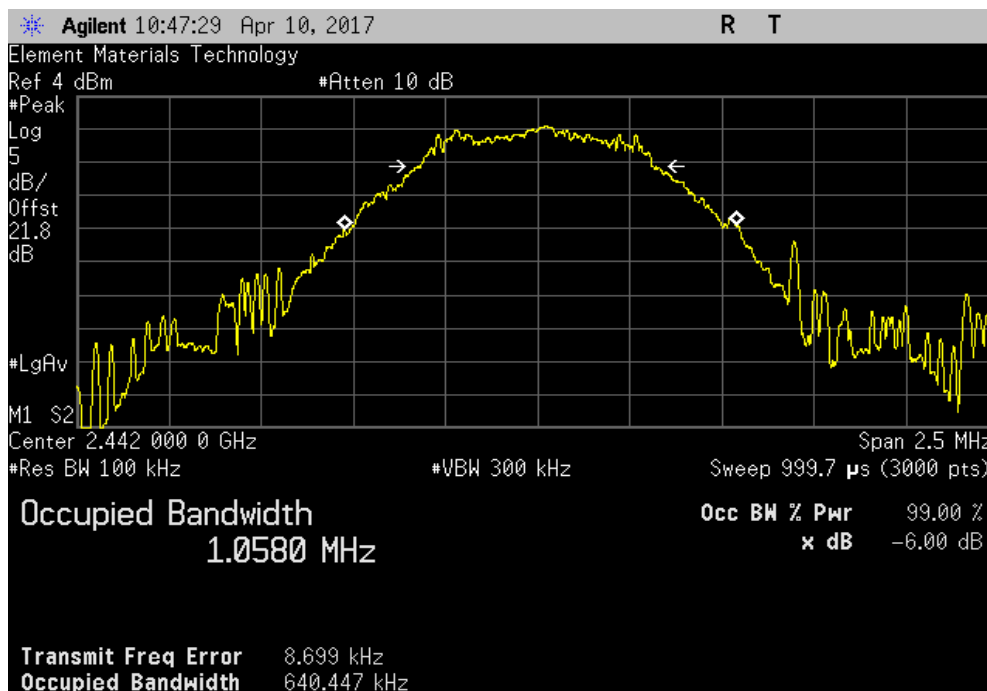


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| BLE/GFSK Low Channel, 2402 MHz |  |  |  |             |           |        |
|--------------------------------|--|--|--|-------------|-----------|--------|
|                                |  |  |  | Value       | Limit (≥) | Result |
|                                |  |  |  | 620.275 kHz | 500 kHz   | Pass   |



| BLE/GFSK Mid Channel, 2442 MHz |  |  |  |             |           |        |
|--------------------------------|--|--|--|-------------|-----------|--------|
|                                |  |  |  | Value       | Limit (≥) | Result |
|                                |  |  |  | 640.447 kHz | 500 kHz   | Pass   |

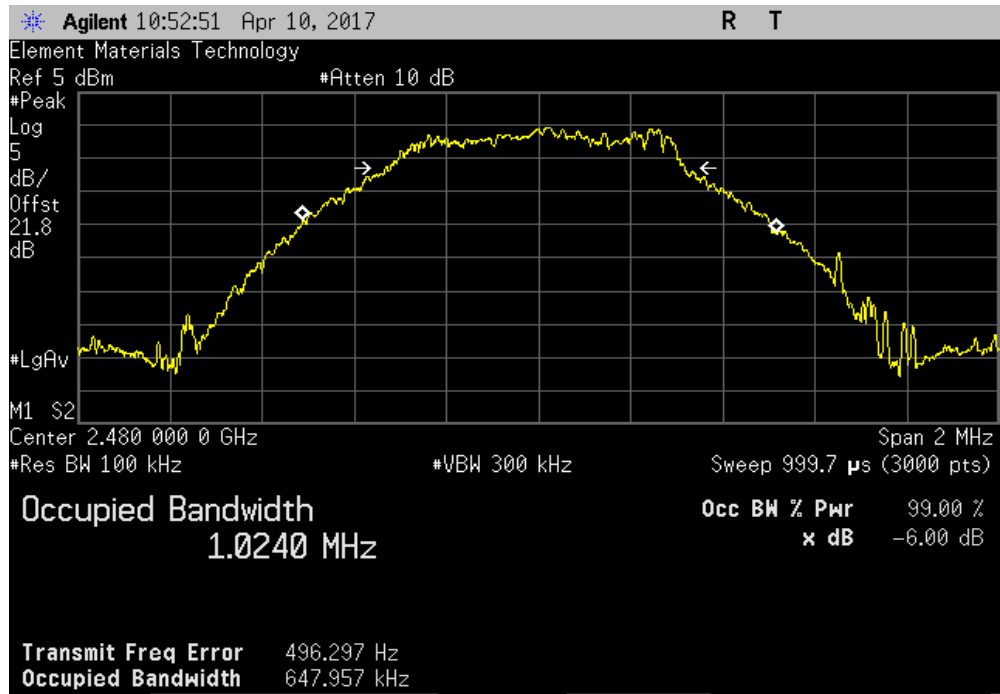


# OCCUPIED BANDWIDTH



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| BLE/GFSK High Channel, 2480 MHz |  |  |  |              |        |  |
|---------------------------------|--|--|--|--------------|--------|--|
| Value                           |  |  |  | Limit<br>(≥) | Result |  |
| 647.957 kHz                     |  |  |  | 500 kHz      | Pass   |  |



# OUTPUT POWER



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Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model    | ID  | Last Cal. | Cal. Due  |
|------------------------------|--------------------|----------|-----|-----------|-----------|
| Generator - Signal           | Agilent            | E4422B   | TGQ | 3/17/2015 | 3/17/2018 |
| Attenuator                   | S.M. Electronics   | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Block - DC                   | Fairview Microwave | SD3379   | AMI | 9/15/2016 | 9/15/2017 |
| Analyzer - Spectrum Analyzer | Agilent            | E4440A   | AAX | 3/16/2017 | 3/16/2018 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

**De Facto EIRP Limit:** The EUT meets the de facto EIRP limit of +36 dBm.

# OUTPUT POWER



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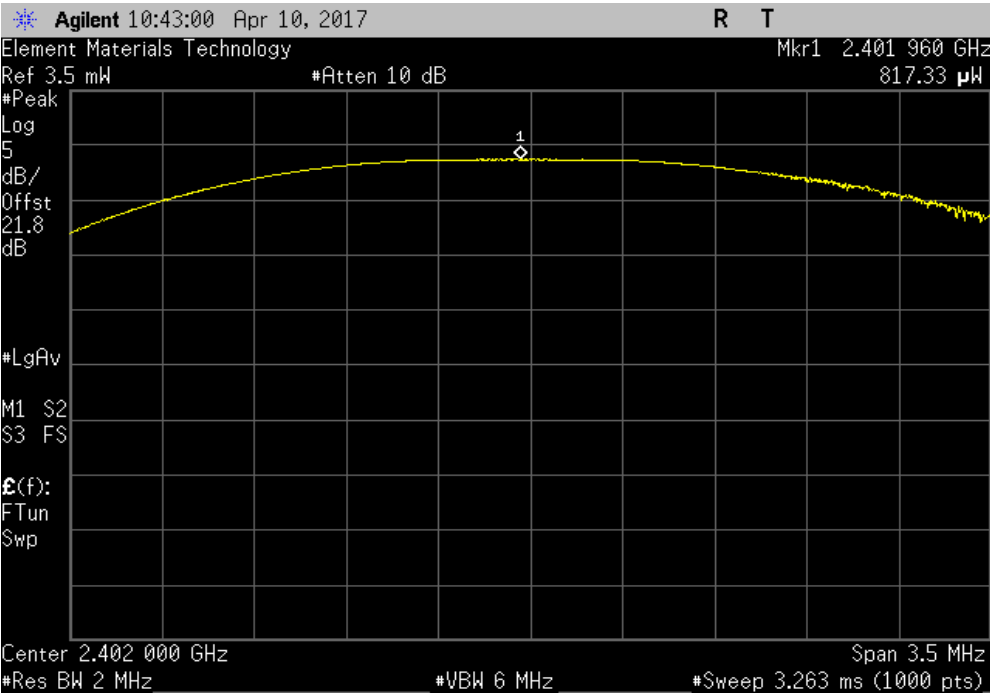
|                                 |                |                                |           |
|---------------------------------|----------------|--------------------------------|-----------|
| EUT: L200B Wireless Hearing Aid |                | Work Order: INCN0002           |           |
| Serial Number: 17021314         |                | Date: 04/10/17                 |           |
| Customer: IntriCon Corporation  |                | Temperature: 22.2 °C           |           |
| Attendees: Andrew Albing        |                | Humidity: 33.4% RH             |           |
| Project: None                   |                | Barometric Pres.: 1016 mbar    |           |
| Tested by: Dustin Sparks        | Power: Battery | Job Site: MN08                 |           |
| TEST SPECIFICATIONS             |                |                                |           |
| FCC 15.247:2017                 |                | Test Method                    |           |
|                                 |                | ANSI C63.10:2013               |           |
| COMMENTS                        |                |                                |           |
| None                            |                |                                |           |
| DEVIATIONS FROM TEST STANDARD   |                |                                |           |
| None                            |                |                                |           |
| Configuration #                 | 4              | Signature <i>Dustin Sparks</i> |           |
|                                 |                | Value                          | Limit (<) |
| BLE/GFSK Low Channel, 2402 MHz  |                | 817.335 uW                     | 1 W       |
| BLE/GFSK Mid Channel, 2442 MHz  |                | 908.866 uW                     | 1 W       |
| BLE/GFSK High Channel, 2480 MHz |                | 956.753 uW                     | 1 W       |
|                                 |                |                                | Result    |
|                                 |                |                                | Pass      |
|                                 |                |                                | Pass      |
|                                 |                |                                | Pass      |

# OUTPUT POWER

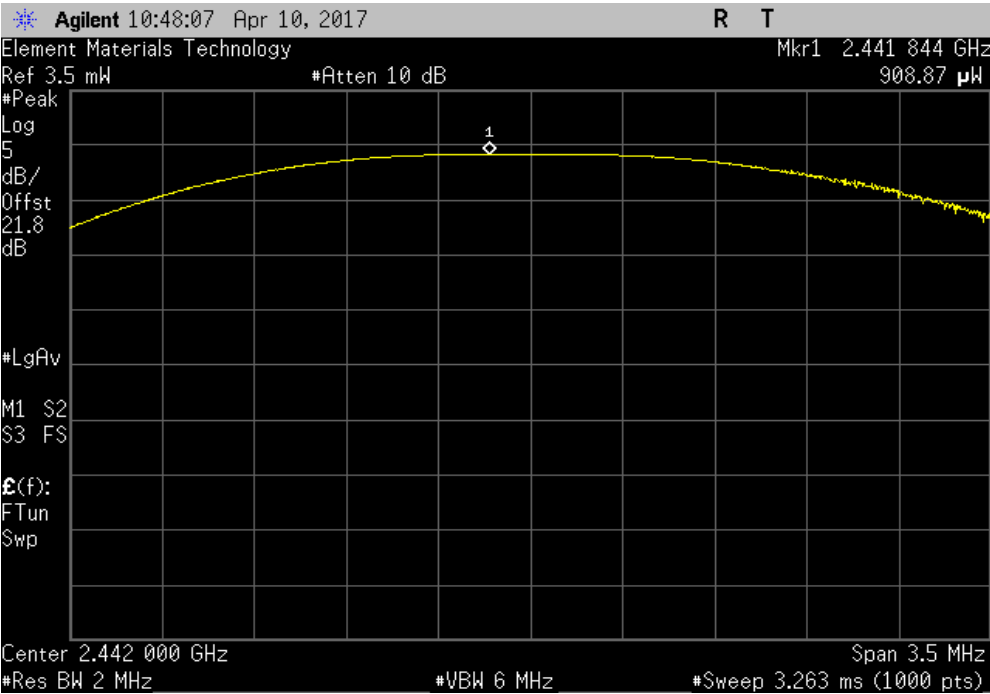


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| BLE/GFSK Low Channel, 2402 MHz |  |  |  |              |        |  |
|--------------------------------|--|--|--|--------------|--------|--|
| Value                          |  |  |  | Limit<br>(<) | Result |  |
| 817.335 uW                     |  |  |  | 1 W          | Pass   |  |



| BLE/GFSK Mid Channel, 2442 MHz |  |  |  |              |        |  |
|--------------------------------|--|--|--|--------------|--------|--|
| Value                          |  |  |  | Limit<br>(<) | Result |  |
| 908.866 uW                     |  |  |  | 1 W          | Pass   |  |

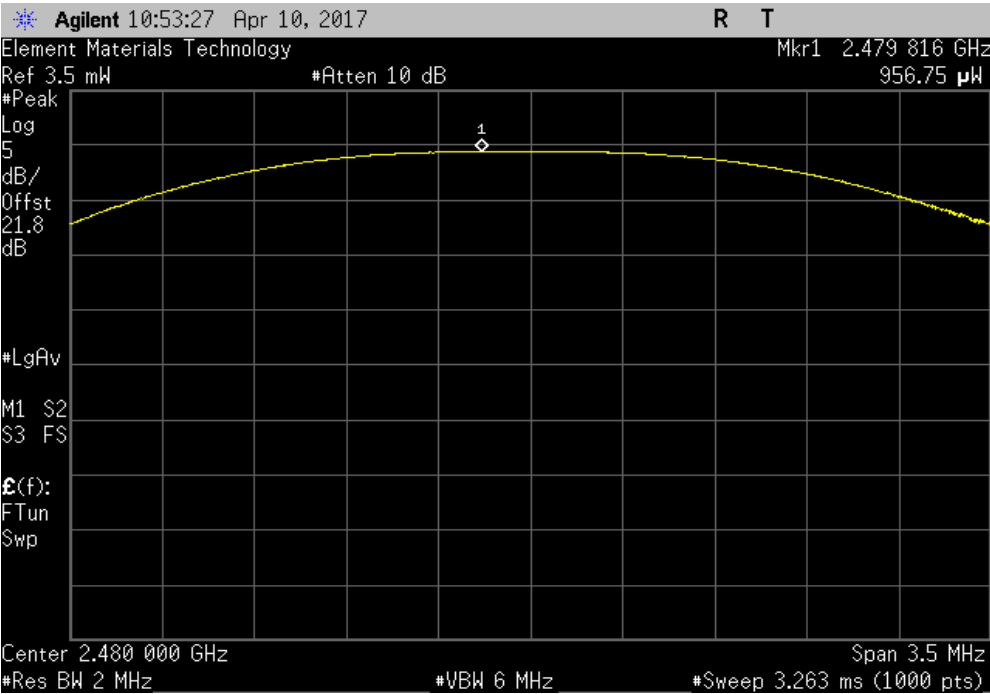


# OUTPUT POWER



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| BLE/GFSK High Channel, 2480 MHz |  |  |  |       |        |  |
|---------------------------------|--|--|--|-------|--------|--|
| Value                           |  |  |  | Limit | Result |  |
|                                 |  |  |  | (<)   |        |  |
| 956.753 uW                      |  |  |  | 1 W   | Pass   |  |



# POWER SPECTRAL DENSITY



XMI 2017.01.26

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model    | ID  | Last Cal. | Cal. Due  |
|------------------------------|--------------------|----------|-----|-----------|-----------|
| Generator - Signal           | Agilent            | E4422B   | TGQ | 3/17/2015 | 3/17/2018 |
| Attenuator                   | S.M. Electronics   | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Block - DC                   | Fairview Microwave | SD3379   | AMI | 9/15/2016 | 9/15/2017 |
| Analyzer - Spectrum Analyzer | Agilent            | E4440A   | AAX | 3/16/2017 | 3/16/2018 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.

# POWER SPECTRAL DENSITY



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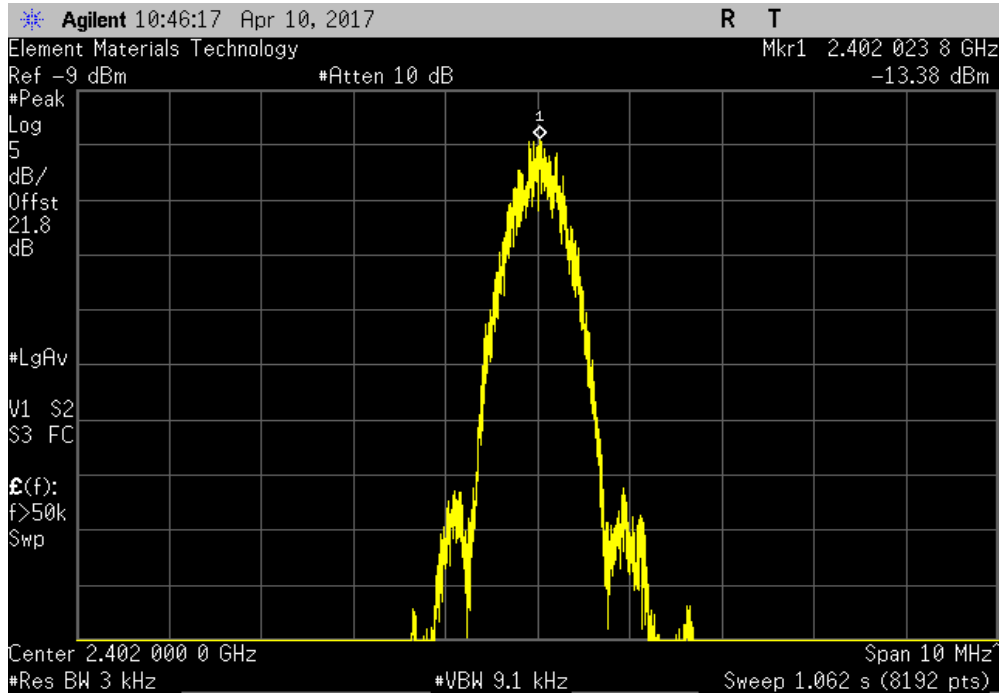
|                                 |   |                                |                     |
|---------------------------------|---|--------------------------------|---------------------|
| EUT: L200B Wireless Hearing Aid |   | Work Order: INCN0002           |                     |
| Serial Number: 17021314         |   | Date: 04/10/17                 |                     |
| Customer: IntriCon Corporation  |   | Temperature: 22.1 °C           |                     |
| Attendees: Andrew Albing        |   | Humidity: 33.4% RH             |                     |
| Project: None                   |   | Barometric Pres.: 1016 mbar    |                     |
| Tested by: Dustin Sparks        |   | Power: Battery                 |                     |
| Job Site: MN08                  |   |                                |                     |
| TEST SPECIFICATIONS             |   |                                |                     |
| FCC 15.247:2017                 |   | Test Method                    |                     |
|                                 |   | ANSI C63.10:2013               |                     |
| COMMENTS                        |   |                                |                     |
| None                            |   |                                |                     |
| DEVIATIONS FROM TEST STANDARD   |   |                                |                     |
| None                            |   |                                |                     |
| Configuration #                 | 4 | Signature <i>Dustin Sparks</i> |                     |
|                                 |   | Value<br>dBm/3kHz              | Limit<br>< dBm/3kHz |
| BLE/GFSK Low Channel, 2402 MHz  |   | -13.376                        | 8                   |
| BLE/GFSK Mid Channel, 2442 MHz  |   | -14.121                        | 8                   |
| BLE/GFSK High Channel, 2480 MHz |   | -13.956                        | 8                   |
|                                 |   |                                | Results             |
|                                 |   |                                | Pass                |
|                                 |   |                                | Pass                |
|                                 |   |                                | Pass                |

# POWER SPECTRAL DENSITY

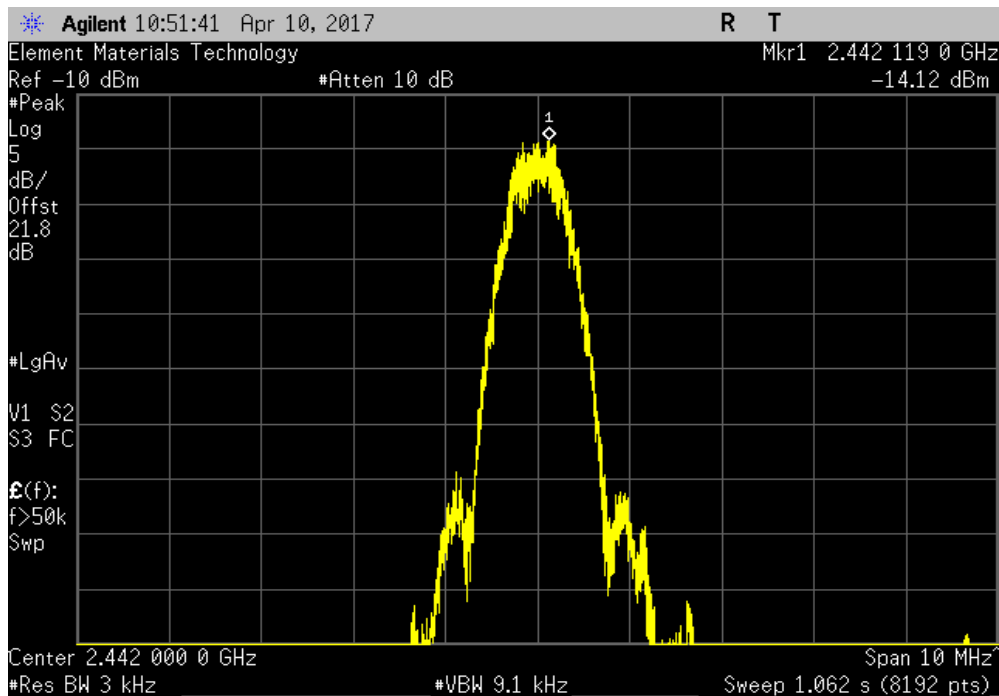


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| BLE/GFSK Low Channel, 2402 MHz |  |  |  |                   |                     |         |
|--------------------------------|--|--|--|-------------------|---------------------|---------|
|                                |  |  |  | Value<br>dBm/3kHz | Limit<br>< dBm/3kHz | Results |
|                                |  |  |  | -13.376           | 8                   | Pass    |



| BLE/GFSK Mid Channel, 2442 MHz |  |  |  |                   |                     |         |
|--------------------------------|--|--|--|-------------------|---------------------|---------|
|                                |  |  |  | Value<br>dBm/3kHz | Limit<br>< dBm/3kHz | Results |
|                                |  |  |  | -14.121           | 8                   | Pass    |

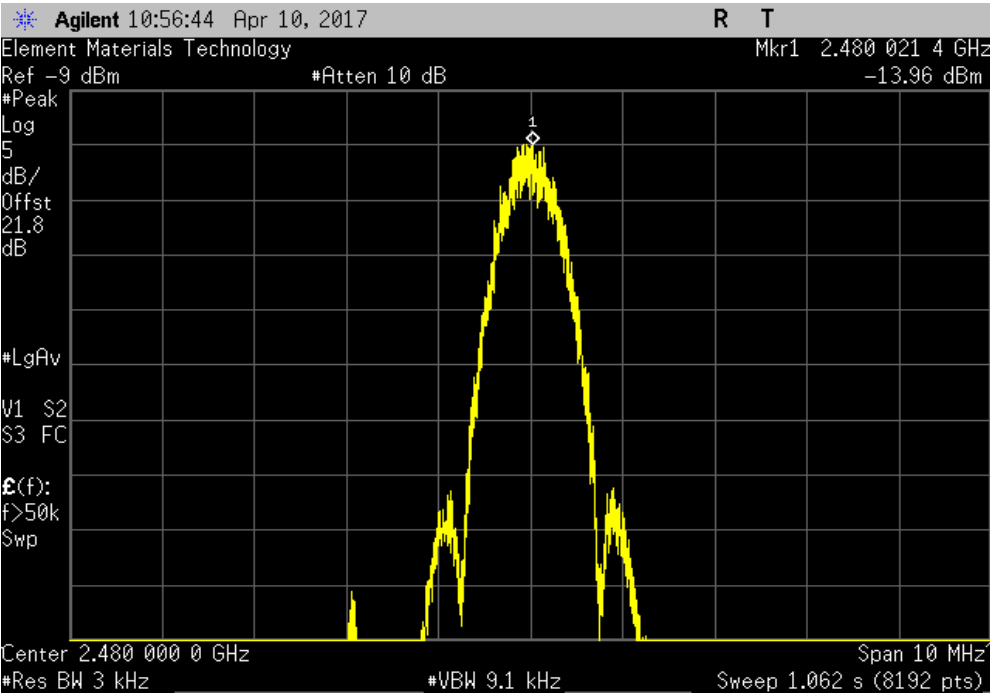


# POWER SPECTRAL DENSITY



TbTfx 2017.01.27 XMI 2017.01.26

| BLE/GFSK High Channel, 2480 MHz |  |  |  |          |            |         |
|---------------------------------|--|--|--|----------|------------|---------|
|                                 |  |  |  | Value    | Limit      | Results |
|                                 |  |  |  | dBm/3kHz | < dBm/3kHz |         |
|                                 |  |  |  | -13.956  | 8          | Pass    |



# BAND EDGE COMPLIANCE



XMI 2017.01.26

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model    | ID  | Last Cal. | Cal. Due  |
|------------------------------|--------------------|----------|-----|-----------|-----------|
| Generator - Signal           | Agilent            | E4422B   | TGQ | 3/17/2015 | 3/17/2018 |
| Attenuator                   | S.M. Electronics   | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Block - DC                   | Fairview Microwave | SD3379   | AMI | 9/15/2016 | 9/15/2017 |
| Analyzer - Spectrum Analyzer | Agilent            | E4440A   | AAX | 3/16/2017 | 3/16/2018 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

# BAND EDGE COMPLIANCE



TstTx 2017.01.27 XMt 2017.01.26

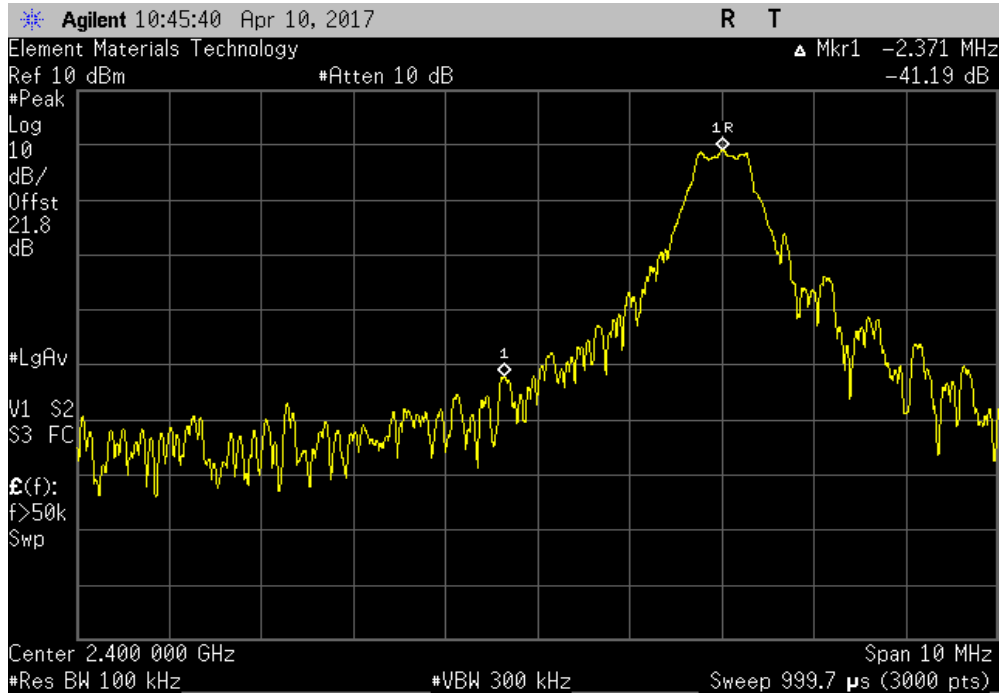
|                                 |                |                                |                      |
|---------------------------------|----------------|--------------------------------|----------------------|
| EUT: L200B Wireless Hearing Aid |                | Work Order: INCN0002           |                      |
| Serial Number: 17021314         |                | Date: 04/10/17                 |                      |
| Customer: IntriCon Corporation  |                | Temperature: 22.2 °C           |                      |
| Attendees: Andrew Albing        |                | Humidity: 33.8% RH             |                      |
| Project: None                   |                | Barometric Pres.: 1016 mbar    |                      |
| Tested by: Dustin Sparks        | Power: Battery | Job Site: MN08                 |                      |
| TEST SPECIFICATIONS             |                | Test Method                    |                      |
| FCC 15.247:2017                 |                | ANSI C63.10:2013               |                      |
| COMMENTS                        |                |                                |                      |
| None                            |                |                                |                      |
| DEVIATIONS FROM TEST STANDARD   |                |                                |                      |
| None                            |                |                                |                      |
| Configuration #                 | 4              | Signature <i>Dustin Sparks</i> |                      |
|                                 |                | Value (dBc)                    | Limit ≤ (dBc) Result |
| BLE/GFSK Low Channel, 2402 MHz  |                | -41.19                         | -20 Pass             |
| BLE/GFSK High Channel, 2480 MHz |                | -49.55                         | -20 Pass             |

# BAND EDGE COMPLIANCE

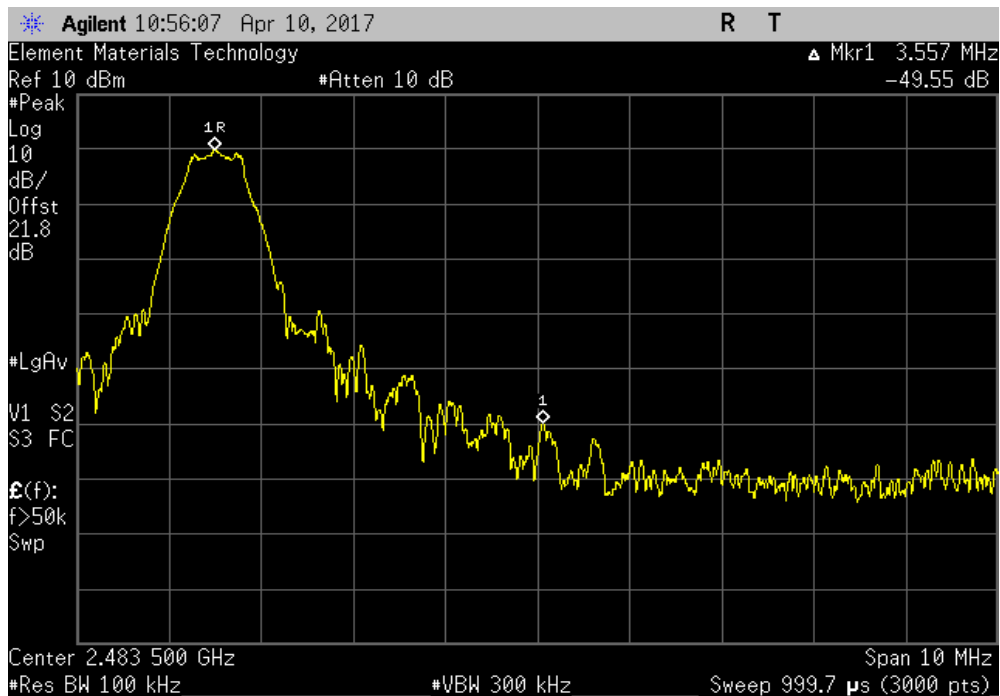


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| BLE/GFSK Low Channel, 2402 MHz |  |  |  |                |                  |        |
|--------------------------------|--|--|--|----------------|------------------|--------|
|                                |  |  |  | Value<br>(dBc) | Limit<br>≤ (dBc) | Result |
|                                |  |  |  | -41.19         | -20              | Pass   |



| BLE/GFSK High Channel, 2480 MHz |  |  |  |                |                  |        |
|---------------------------------|--|--|--|----------------|------------------|--------|
|                                 |  |  |  | Value<br>(dBc) | Limit<br>≤ (dBc) | Result |
|                                 |  |  |  | -49.55         | -20              | Pass   |



# SPURIOUS CONDUCTED EMISSIONS



XMit 2017.01.26

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model    | ID  | Last Cal. | Cal. Due  |
|------------------------------|--------------------|----------|-----|-----------|-----------|
| Generator - Signal           | Agilent            | E4422B   | TGQ | 3/17/2015 | 3/17/2018 |
| Attenuator                   | S.M. Electronics   | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Block - DC                   | Fairview Microwave | SD3379   | AMI | 9/15/2016 | 9/15/2017 |
| Analyzer - Spectrum Analyzer | Agilent            | E4440A   | AAX | 3/16/2017 | 3/16/2018 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

# SPURIOUS CONDUCTED EMISSIONS



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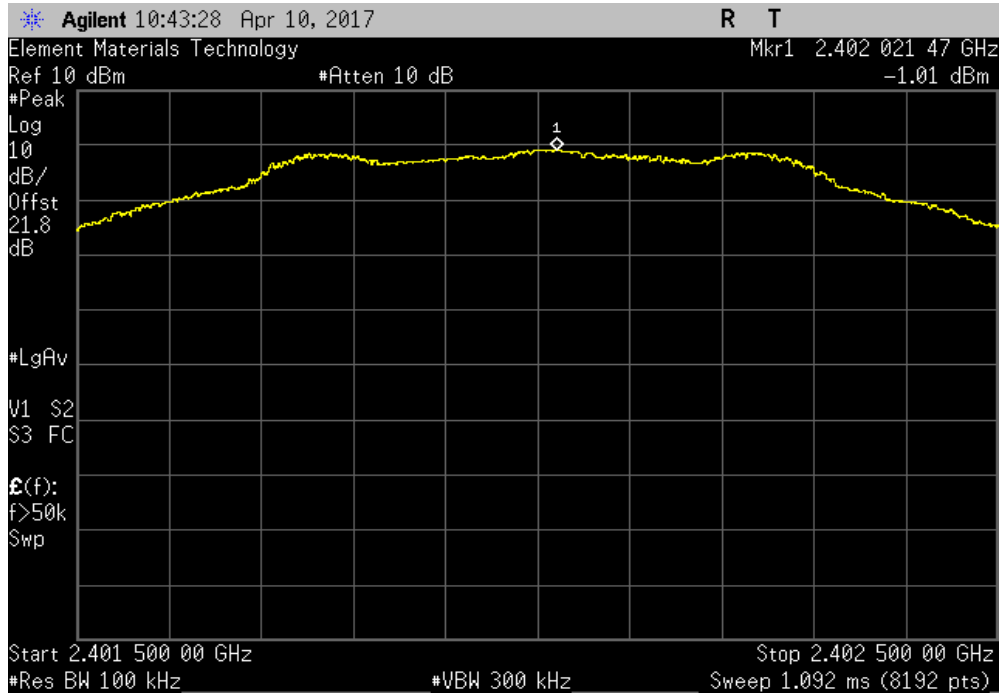
|                                 |   |                                |                 |
|---------------------------------|---|--------------------------------|-----------------|
| EUT: L200B Wireless Hearing Aid |   | Work Order: INCN0002           |                 |
| Serial Number: 17021314         |   | Date: 04/10/17                 |                 |
| Customer: IntriCon Corporation  |   | Temperature: 21.8 °C           |                 |
| Attendees: Andrew Albing        |   | Humidity: 33.7% RH             |                 |
| Project: None                   |   | Barometric Pres.: 1016 mbar    |                 |
| Tested by: Dustin Sparks        |   | Power: Battery                 |                 |
|                                 |   | Job Site: MN08                 |                 |
| TEST SPECIFICATIONS             |   | Test Method                    |                 |
| FCC 15.247:2017                 |   | ANSI C63.10:2013               |                 |
| COMMENTS                        |   |                                |                 |
| None                            |   |                                |                 |
| DEVIATIONS FROM TEST STANDARD   |   |                                |                 |
| None                            |   |                                |                 |
| Configuration #                 | 4 | Signature <i>Dustin Sparks</i> |                 |
|                                 |   | Frequency Range                | Max Value (dBc) |
|                                 |   |                                | Limit ≤ (dBc)   |
|                                 |   |                                | Result          |
| BLE/GFSK Low Channel, 2402 MHz  |   | Fundamental                    | N/A             |
| BLE/GFSK Low Channel, 2402 MHz  |   | 30 MHz - 12.5 GHz              | -39.43          |
| BLE/GFSK Low Channel, 2402 MHz  |   | 12.5 GHz - 25 GHz              | -51.46          |
| BLE/GFSK Mid Channel, 2442 MHz  |   | Fundamental                    | N/A             |
| BLE/GFSK Mid Channel, 2442 MHz  |   | 30 MHz - 12.5 GHz              | -43.38          |
| BLE/GFSK Mid Channel, 2442 MHz  |   | 12.5 GHz - 25 GHz              | -51.81          |
| BLE/GFSK High Channel, 2480 MHz |   | Fundamental                    | N/A             |
| BLE/GFSK High Channel, 2480 MHz |   | 30 MHz - 12.5 GHz              | -34.75          |
| BLE/GFSK High Channel, 2480 MHz |   | 12.5 GHz - 25 GHz              | -51.53          |

# SPURIOUS CONDUCTED EMISSIONS

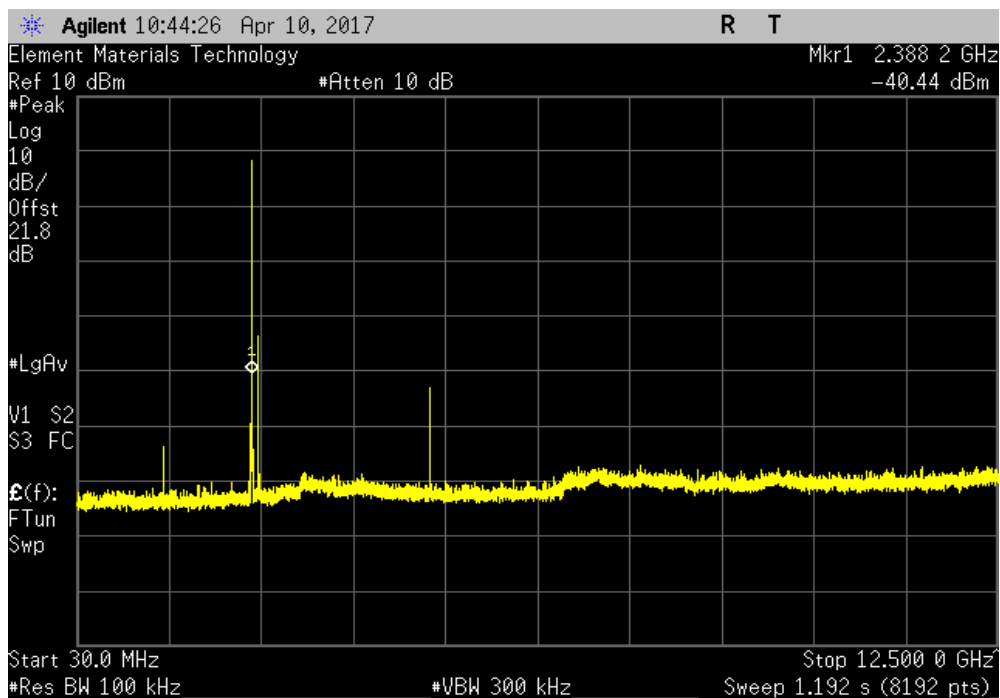


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| BLE/GFSK Low Channel, 2402 MHz |  |                 |                    |        |  |  |
|--------------------------------|--|-----------------|--------------------|--------|--|--|
| Frequency Range                |  | Max Value (dBc) | Limit $\leq$ (dBc) | Result |  |  |
| Fundamental                    |  | N/A             | N/A                | N/A    |  |  |



| BLE/GFSK Low Channel, 2402 MHz |  |                 |                    |        |  |  |
|--------------------------------|--|-----------------|--------------------|--------|--|--|
| Frequency Range                |  | Max Value (dBc) | Limit $\leq$ (dBc) | Result |  |  |
| 30 MHz - 12.5 GHz              |  | -39.43          | -20                | Pass   |  |  |

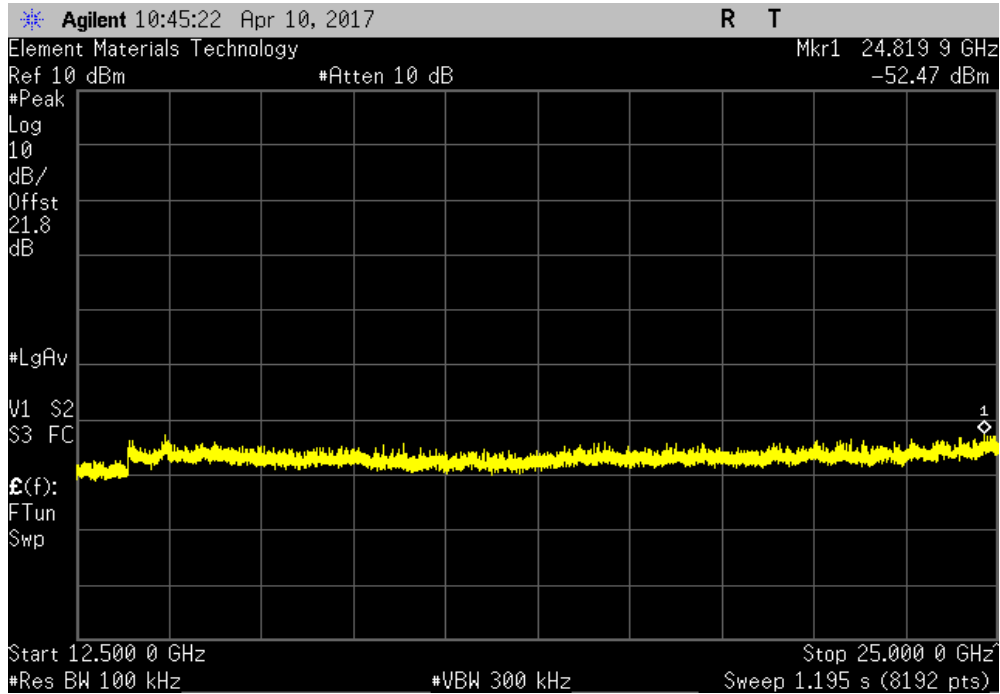


# SPURIOUS CONDUCTED EMISSIONS

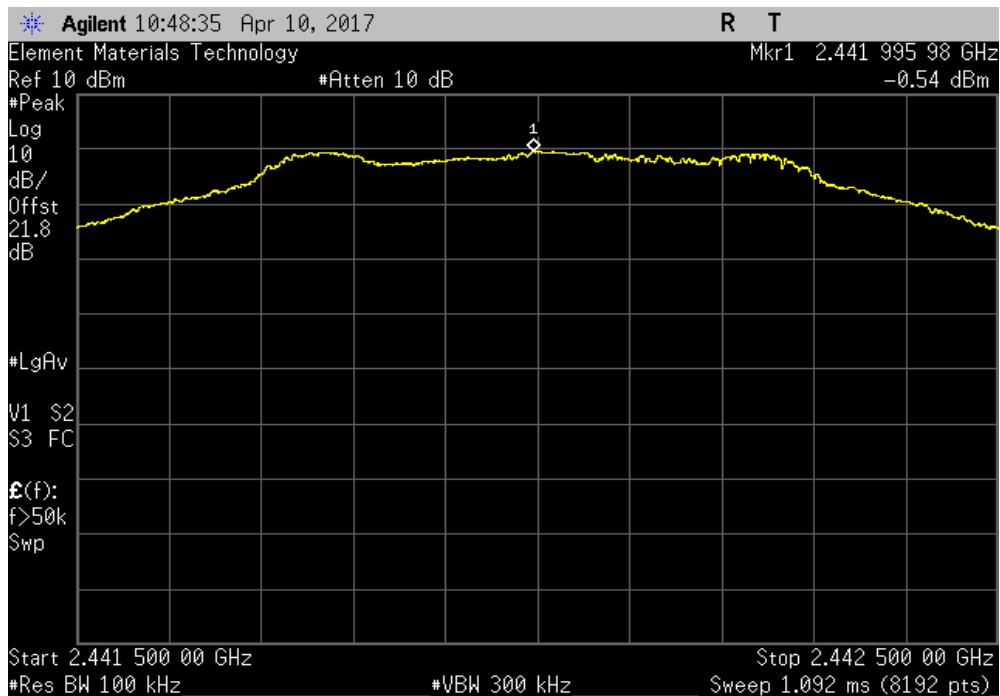


Tbftx 2017.01.27 XMI 2017.01.26

| BLE/GFSK Low Channel, 2402 MHz |                 |               |        |  |
|--------------------------------|-----------------|---------------|--------|--|
| Frequency Range                | Max Value (dBc) | Limit ≤ (dBc) | Result |  |
| 12.5 GHz - 25 GHz              | -51.46          | -20           | Pass   |  |



| BLE/GFSK Mid Channel, 2442 MHz |                 |               |        |  |
|--------------------------------|-----------------|---------------|--------|--|
| Frequency Range                | Max Value (dBc) | Limit ≤ (dBc) | Result |  |
| Fundamental                    | N/A             | N/A           | N/A    |  |

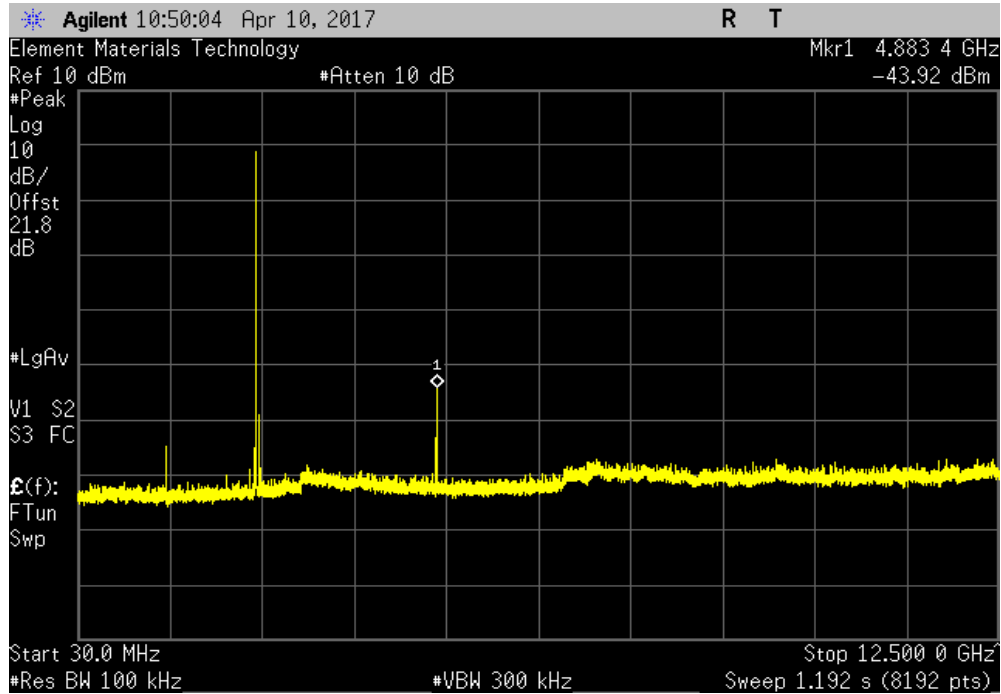


# SPURIOUS CONDUCTED EMISSIONS

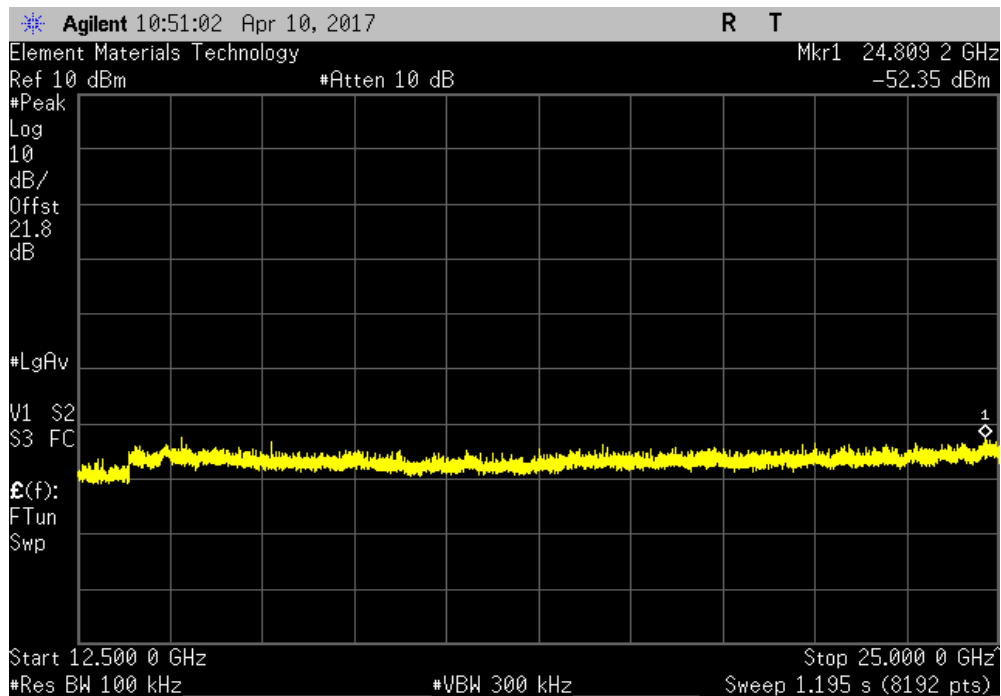


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| BLE/GFSK Mid Channel, 2442 MHz |                 |               |        |  |
|--------------------------------|-----------------|---------------|--------|--|
| Frequency Range                | Max Value (dBc) | Limit ≤ (dBc) | Result |  |
| 30 MHz - 12.5 GHz              | -43.38          | -20           | Pass   |  |



| BLE/GFSK Mid Channel, 2442 MHz |                 |               |        |  |
|--------------------------------|-----------------|---------------|--------|--|
| Frequency Range                | Max Value (dBc) | Limit ≤ (dBc) | Result |  |
| 12.5 GHz - 25 GHz              | -51.81          | -20           | Pass   |  |

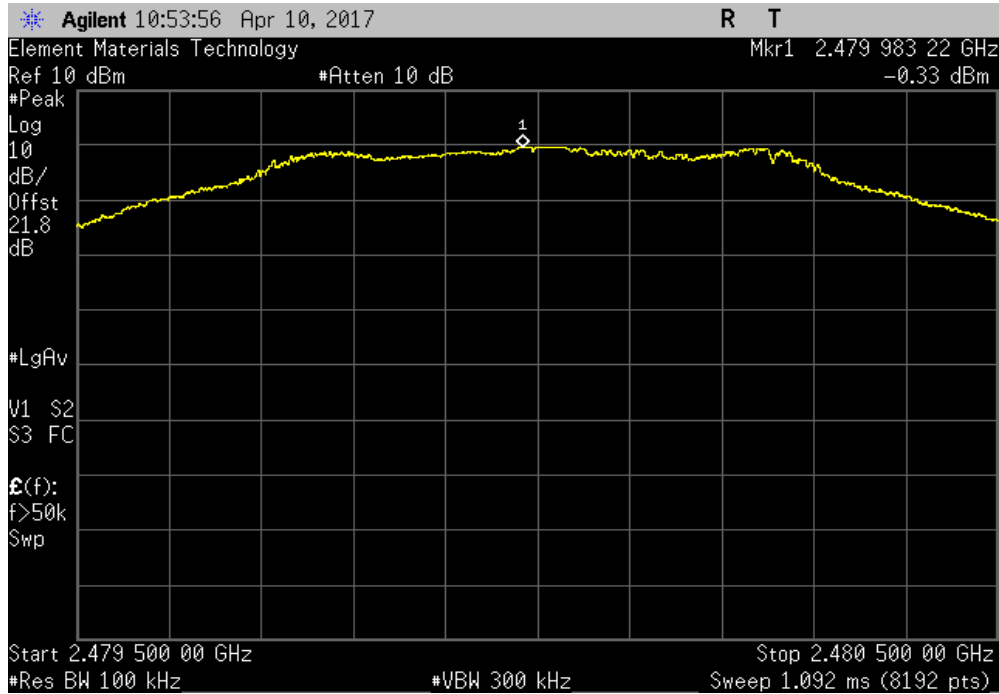


# SPURIOUS CONDUCTED EMISSIONS

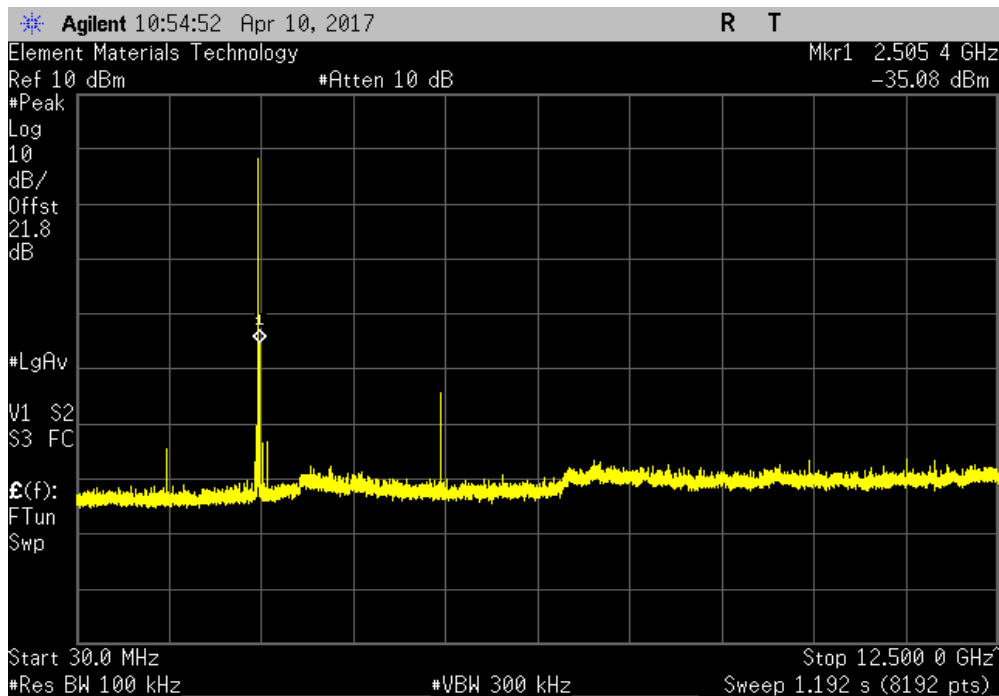


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| BLE/GFSK High Channel, 2480 MHz |  |                 |               |        |  |  |
|---------------------------------|--|-----------------|---------------|--------|--|--|
| Frequency Range                 |  | Max Value (dBc) | Limit ≤ (dBc) | Result |  |  |
| Fundamental                     |  | N/A             | N/A           | N/A    |  |  |



| BLE/GFSK High Channel, 2480 MHz |  |                 |               |        |  |  |
|---------------------------------|--|-----------------|---------------|--------|--|--|
| Frequency Range                 |  | Max Value (dBc) | Limit ≤ (dBc) | Result |  |  |
| 30 MHz - 12.5 GHz               |  | -34.75          | -20           | Pass   |  |  |



# SPURIOUS CONDUCTED EMISSIONS



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| BLE/GFSK High Channel, 2480 MHz |                 |               |        |  |
|---------------------------------|-----------------|---------------|--------|--|
| Frequency Range                 | Max Value (dBc) | Limit ≤ (dBc) | Result |  |
| 12.5 GHz - 25 GHz               | -51.53          | -20           | Pass   |  |

