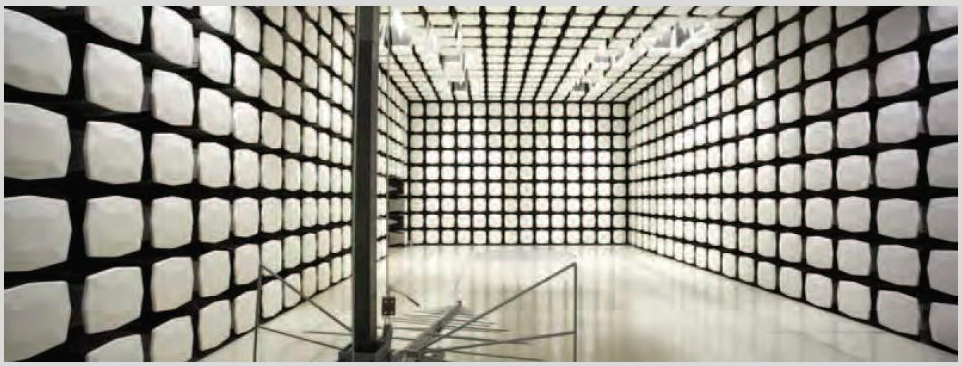
# Axonics Modulation Technologies, Inc.

**External Pulse Generator (EPG) Model 1601**

**FCC 95I:2018**

**MedRadio**

**Report # AXON0105.1**



NVLAP Lab Code: 200676-0

# CERTIFICATE OF TEST

2017-1-25

**Last Date of Test: January 8, 2018**
**Axonics Modulation Technologies, Inc.**
**Model: External Pulse Generator (EPG) Model 1601**

## Radio Equipment Testing

### Standards

| Specification | Method |
|---|---|
| FCC 95I:2018 | ANSI C63.26:2015 |

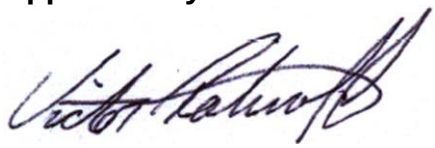
### Results

| Method Clause | Test Description | Applied | Results | Comments |
|---|---|---|---|---|
| ANSI C63.26 5.4.3 | Emission Bandwidth | Yes | Pass | |
| FCC 95.2579(a)(1) | Emission Mask | Yes | Pass | |
| ANSI C63.26 5.2.3.3 | Conducted Output Power | Yes | Pass | |
| ANSI C63.26 5.6 | Frequency Stability | Yes | Pass | |
| ANSI C63.26 5.5.4 | Spurious Radiated Emissions | Yes | Pass | |
| ANSI C63.26 5.7 | Spurious Conducted Emissions | Yes | Pass | |
| ANSI C63.26 5.2.3.3, 5.2.7 | Radiated Power (EIRP) | Yes | Pass | |

### Deviations From Test Standards

None

### Approved By:



*Victor Ratinoff, 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

2017.6.12

## 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

## 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.

## European Union

**European Commission** – Within Element, we have a EU Notified Body validated for the EMCD and RED Directives.

## Australia/New Zealand

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

## Korea

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

## Japan

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

## 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.

## Singapore

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

## Israel

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

## Hong Kong

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

## Vietnam

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

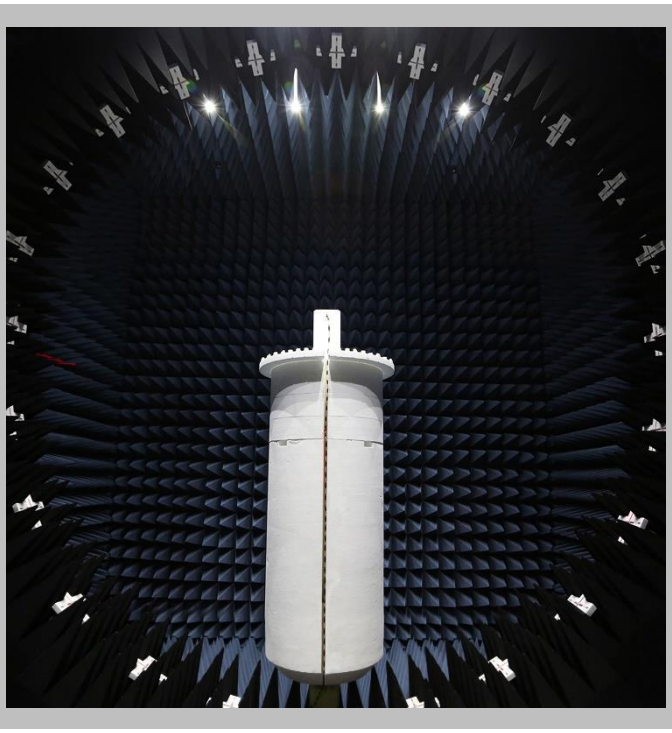
## SCOPE

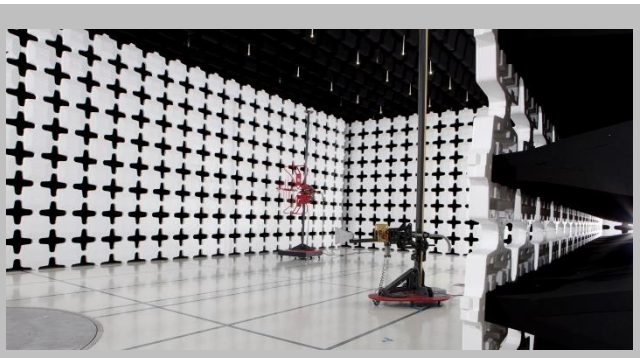
For details on the Scopes of our Accreditations, please visit:
http://portlandcustomer.element.com/ts/scope/scope.htm
http://gsi.nist.gov/global/docs/cabs/designations.html

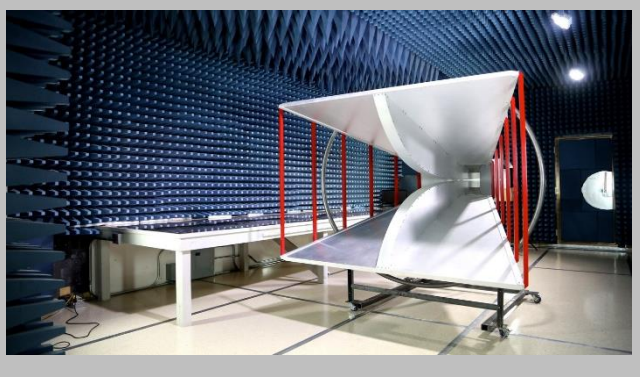
# FACILITIES

2017.9.15

| California | Minnesota | New York | Oregon | Texas | Washington |
|---|---|---|---|---|---|
| Labs OC01-17<br>41 Tesla<br>Irvine, CA 92618<br>(949) 861-8918 | Labs MN01-10<br>9349 W Broadway Ave.<br>Brooklyn Park, MN 55445<br>(612)-638-5136 | Labs NY01-04<br>4939 Jordan Rd.<br>Elbridge, NY 13060<br>(315) 554-8214 | Labs EV01-12<br>6775 NE Evergreen Pkwy #400<br>Hillsboro, OR 97124<br>(503) 844-4066 | Labs TX01-09<br>3801 E Plano Pkwy<br>Plano, TX 75074<br>(469) 304-5255 | Labs NC01-05<br>19201 120th Ave NE<br>Bothell, WA 98011<br>(425)984-6600 |
| **NVLAP** | | | | | |
| 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 |
| **Innovation, Science and Economic Development Canada** | | | | | |
| 2834B-1, 2834B-3 | 2834E-1, 2834E-3 | N/A | 2834D-1, 2834D-*2* | 2834G-1 | 2834F-1 |
| **BSMI** | | | | | |
| SL2-IN-E-1154R | SL2-IN-E-1152R | N/A | SL2-IN-E-1017 | SL2-IN-E-1158R | SL2-IN-E-1153R |
| **VCCI** | | | | | |
| A-0029 | A-0109 | N/A | A-0108 | A-0201 | A-0110 |
| **Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA** | | | | | |
| US0158 | US0175 | N/A | US0017 | US0191 | US0157 |







# MEASUREMENT UNCERTAINTY

TMU.2015.07.10

## 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.

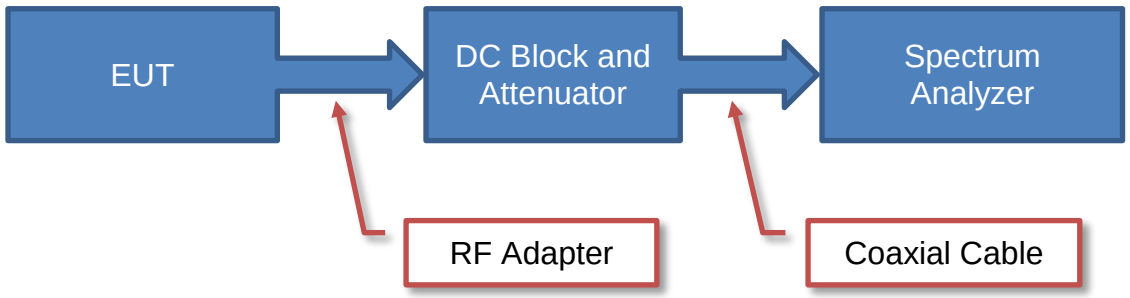
A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable 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.

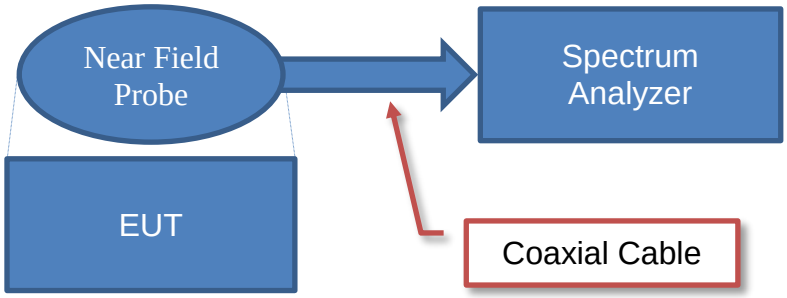
| Test | + MU | - MU |
|---|---|---|
| Frequency Accuracy (Hz) | 0.0007% | -0.0007% |
| Amplitude Accuracy (dB) | 1.2 dB | -1.2 dB |
| Conducted Power (dB) | 0.3 dB | -0.3 dB |
| Radiated Power via Substitution (dB) | 0.7 dB | -0.7 dB |
| Temperature (degrees C) | 0.7°C | -0.7°C |
| Humidity (% RH) | 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 |

# Test Setup Block Diagrams

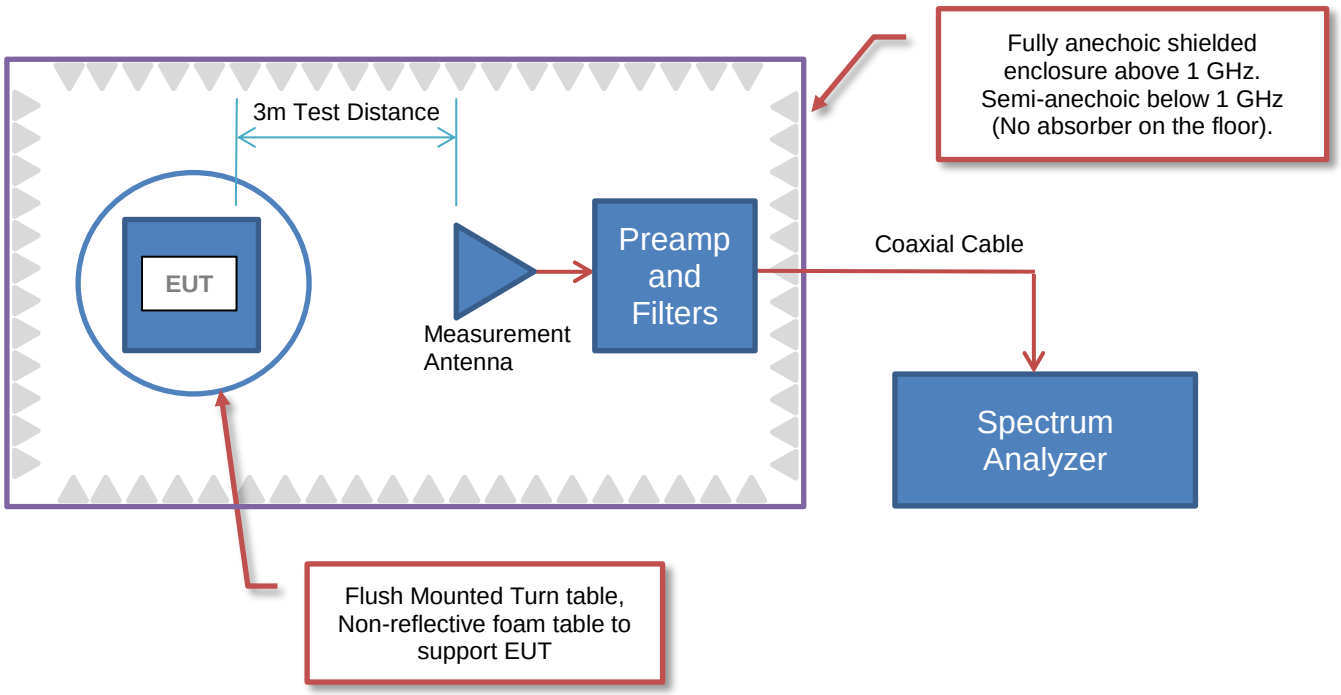
## Antenna Port Conducted Measurements




## Near Field Test Fixture Measurements




## Spurious Radiated Emissions



# PRODUCT DESCRIPTION

## Client and Equipment Under Test (EUT) Information

| | |
|---|---|
| **Company Name:** | Axonics Modulation Technologies, Inc. |
| **Address:** | 7575 Irvine Center Drive Suite 200 |
| **City, State, Zip:** | Irvine, CA 92618 |
| **Test Requested By:** | Franklin Portillo |
| **Model:** | External Pulse Generator (EPG) Model 1601 |
| **First Date of Test:** | January 3, 2018 |
| **Last Date of Test:** | January 8, 2018 |
| **Receipt Date of Samples:** | January 3, 2018 |
| **Equipment Design Stage:** | Production |
| **Equipment Condition:** | No Damage |
| **Purchase Authorization:** | Verified |

## Information Provided by the Party Requesting the Test

| **Functional Description of the EUT:** |
|---|
| The EPG Model - 1601 (MEDS) is a Battery operated External Pulse Generator (EPG). Tined Lead: stimulation lead with four (4) electrode contacts to provide stimulation. The distal tip is implanted through the applicable foramen near the sacral nerve (S3) with the proximal end connected to EPG. Operating in the MEDS Bands (MedRadio-WingBand) (401-402 MHz and 405-406 MHz) |

| **Testing Objective:** |
|---|
| Seeking FCC authorization for the MedRadio transmitter to FCC Part 95I. |

# CONFIGURATIONS

## Configuration AXON0105- 4

| Software/Firmware Running during test | |
|---|---|
| **Description** | **Version** |
| EPG Software | 34 |

| EUT | | | |
|---|---|---|---|
| **Description** | **Manufacturer** | **Model/Part Number** | **Serial Number** |
| External Pulse Generator (EPG) | Axonics | 1601 | AE1GC70009 |

| Peripherals in test setup boundary | | | |
|---|---|---|---|
| **Description** | **Manufacturer** | **Model/Part Number** | **Serial Number** |
| Patient Remote (PR) | Axonics | 2301 | AP1BA70024 |

| Cables | | | | | |
|---|---|---|---|---|---|
| **Cable Type** | **Shield** | **Length (m)** | **Ferrite** | **Connection 1** | **Connection 2** |
| Tined Lead (Lot# AL1G160008, Model 1201) | No | 1.2m | No | External Pulse Generator (EPG) | Unterminated |

## Configuration AXON0105- 5

| Software/Firmware Running during test | |
|---|---|
| **Description** | **Version** |
| EPG Software | 34 |

| EUT | | | |
|---|---|---|---|
| **Description** | **Manufacturer** | **Model/Part Number** | **Serial Number** |
| External Pulse Generator (EPG) | Axonics | 1601 | AE1GC70009 |

| Peripherals in test setup boundary | | | |
|---|---|---|---|
| **Description** | **Manufacturer** | **Model/Part Number** | **Serial Number** |
| Patient Remote (PR) | Axonics | 2301 | AP1BA70024 |

| Cables | | | | | |
|---|---|---|---|---|---|
| **Cable Type** | **Shield** | **Length (m)** | **Ferrite** | **Connection 1** | **Connection 2** |
| BTC Cable (Lot# L2017-0546) with PNE Leads (Lot# AK2BA70001) | No | 1.0m | No | External Pulse Generator (EPG) | Unterminated |

# CONFIGURATIONS

2017-1-25

## Configuration AXON0105- 6

| Software/Firmware Running during test | |
|---|---|
| **Description** | **Version** |
| EPG Software | 34 |

| EUT | | | |
|---|---|---|---|
| **Description** | **Manufacturer** | **Model/Part Number** | **Serial Number** |
| External Pulse Generator (EPG) | Axonics | 1601 | AT1B000003 |

| Peripherals in test setup boundary | | | |
|---|---|---|---|
| **Description** | **Manufacturer** | **Model/Part Number** | **Serial Number** |
| Patient Remote (PR) | Axonics | 2301 | AP1BA70024 |
| DC Power Supply | HQ Power | PS3003U | DK10103872 |

| Cables | | | | | |
|---|---|---|---|---|---|
| **Cable Type** | **Shield** | **Length (m)** | **Ferrite** | **Connection 1** | **Connection 2** |
| AC Cable | No | 1.8m | No | DC Power Supply | AC Mains |
| DC Cable | No | 3.0m | No | DC Power Supply | External Pulse Generator (EPG) |

# MODIFICATIONS

2017-1-25

## Equipment Modifications

| Item | Date | Test | Modification | Note | Disposition of EUT |
|---|---|---|---|---|---|
| 1 | 1/3/2018 | 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 | 1/3/2018 | Radiated Power (EIRP) | 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 | 1/5/2018 | Emission 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 | 1/5/2018 | Emission Mask | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 5 | 1/5/2018 | Conducted Output Power | 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 | 1/5/2018 | Spurious Conducted 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. |
| 7 | 1/8/2018 | Frequency Stability | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed. |

# EMISSIONS BANDWIDTH

XMit 2017.12.13

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 | N5182A | TIF | 23-Aug-17 | 23-Aug-20 |
| Cable | Fairview Microwave | SCA1814-0101-120 | OCZ | NCR | NCR |
| Attenuator | Fairview Microwave | SA18H-20 | TKR | 28-Dec-17 | 28-Dec-18 |
| Block - DC | Aeroflex | INMET 8535 | AMO | 27-Mar-17 | 27-Mar-18 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AFA | 9-Nov-17 | 9-Nov-18 |

**TEST DESCRIPTION**

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per 47 CFR 95.2573(a), the emission bandwidth was determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 20 dB down relative to the maximum level of the modulated carrier. A spectrum analyzer using a peak detector with no video filtering was used with a resolution bandwidth equal to approximately 1.0 percent of the emission bandwidth of the EUT.

# EMISSIONS BANDWIDTH

TbtTx 2017.10.04 XMit 2017.12.13

| | | | | | |
|---|---|---|---|---|---|
| **EUT:** | External Pulse Generator (EPG) Model 1601 | | | **Work Order:** | AXON0105 |
| **Serial Number:** | AT1B000003 | | | **Date:** | 5-Jan-18 |
| **Customer:** | Axonics Modulation Technologies, Inc. | | | **Temperature:** | 22.1 °C |
| **Attendees:** | Franklin Portillo | | | **Humidity:** | 53.5% RH |
| **Project:** | None | | | **Barometric Pres.:** | 1022 mbar |
| **Tested by:** | Johnny Candelas | **Power:** | 3.0VDC | **Job Site:** | OC13 |

| **TEST SPECIFICATIONS** | **Test Method** |
|---|---|
| FCC 95I:2018 | ANSI C63.26:2015 |
| | |

**COMMENTS**

DC Block + 20dB Attenuator + Coax Cable = 21.5dB Total Offset
Power Index = 40

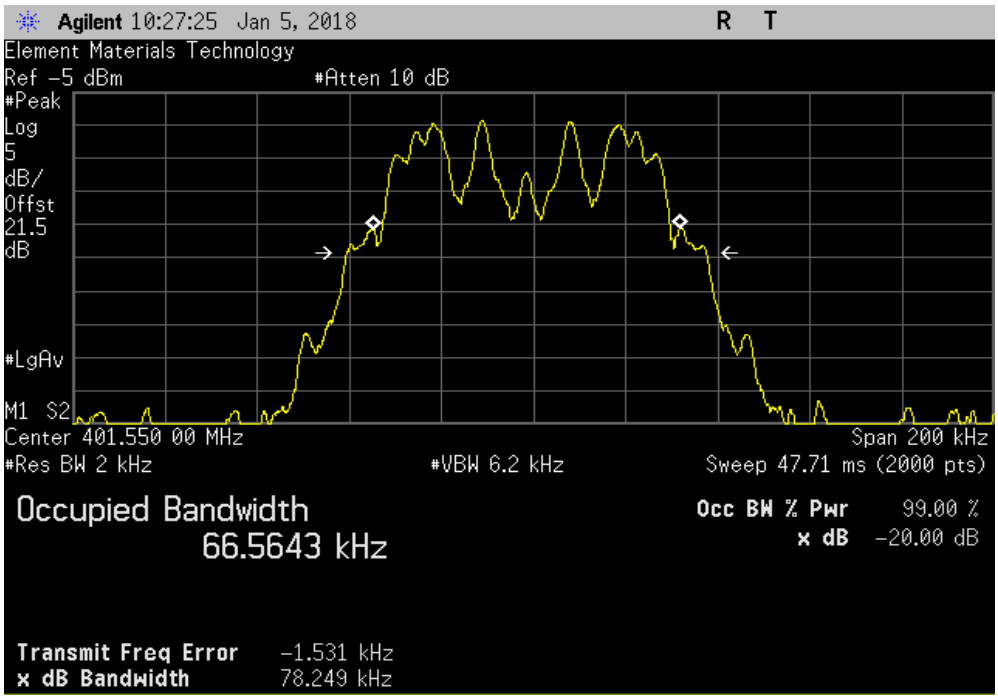
**DEVIATIONS FROM TEST STANDARD**

None

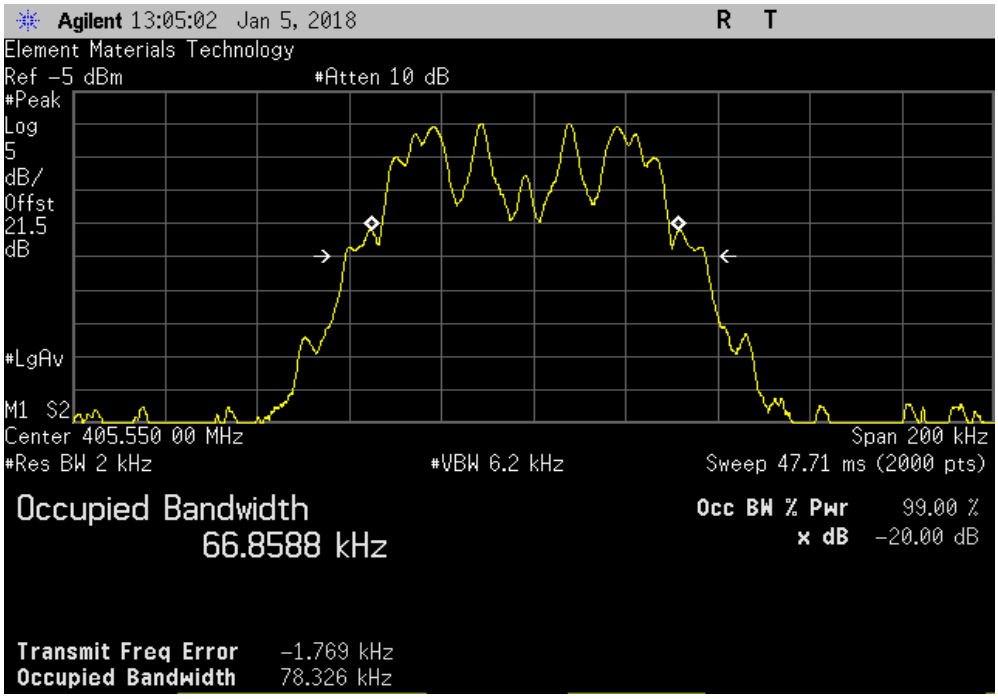
| **Configuration #** | **6** | *Signature* |
|---|---|---|

| | **Value** | **Limit (≤)** | **Result** |
|---|---|---|---|
| MEDS Low Band, Mid Channel, 401.55 MHz | 78.249 kHz | 100 kHz | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 78.326 kHz | 100 kHz | Pass |

| MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Value | Limit (≤) | Result |
| | | | | 78.249 kHz | 100 kHz | Pass |




| MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Value | Limit (≤) | Result |
| | | | | 78.326 kHz | 100 kHz | Pass |



# EMISSIONS MASK

XMit 2017.12.13

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 | N5182A | TIF | 23-Aug-17 | 23-Aug-20 |
| Cable | Fairview Microwave | SCA1814-0101-120 | OCZ | NCR | NCR |
| Attenuator | Fairview Microwave | SA18H-20 | TKR | 28-Dec-17 | 28-Dec-18 |
| Block - DC | Aeroflex | INMET 8535 | AMO | 27-Mar-17 | 27-Mar-18 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AFA | 9-Nov-17 | 9-Nov-18 |

**TEST DESCRIPTION**

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per 47 CFR 95.2579(a)(1) the emission mask was measured. Emissions more than 150 kHz away from the center frequency must be attenuated below the transmitter output power by at least 20 dB. This was evaluated by the Occupied Bandwidth measurement according to 47 CFR 95.2573(a). In addition, emissions 250 kHz or less above and below the MICS band (402-405 MHz) must be attenuated below the maximum permitted output power by at least 20 dB.

A spectrum analyzer was used to measure the emission mask. A spectrum analyzer using a peak detector with no video filtering was used with a resolution bandwidth equal to approximately 1.0 percent of the emission bandwidth of the EUT. However, various plots were made using different frequency spans and resolution bandwidths in an attempt to not only satisfy the measurement criteria, but to also show that all emissions outside of the occupied band are greatly attenuated.

# EMISSIONS MASK

TbtTx 2017.10.04 XMit 2017.12.13

| | | | | | |
|---|---|---|---|---|---|
| **EUT:** | **External Pulse Generator (EPG) Model 1601** | | | **Work Order:** | **AXON0105** |
| **Serial Number:** | **AT1B000003** | | | **Date:** | **5-Jan-18** |
| **Customer:** | **Axonics Modulation Technologies, Inc.** | | | **Temperature:** | **22.1 °C** |
| **Attendees:** | **Franklin Portillo** | | | **Humidity:** | **53.5% RH** |
| **Project:** | **None** | | | **Barometric Pres.:** | **1022 mbar** |
| **Tested by:** | **Johnny Candelas** | **Power:** | **3.0VDC** | **Job Site:** | **OC13** |

| **TEST SPECIFICATIONS** | **Test Method** |
|---|---|
| **FCC 95I:2018** | ANSI C63.26:2015 |
| | |

**COMMENTS**

**DC Block + 20dB Attenuator + Coax Cable = 21.5dB Total Offset**
**Power Index = 40**

**DEVIATIONS FROM TEST STANDARD**

**None**

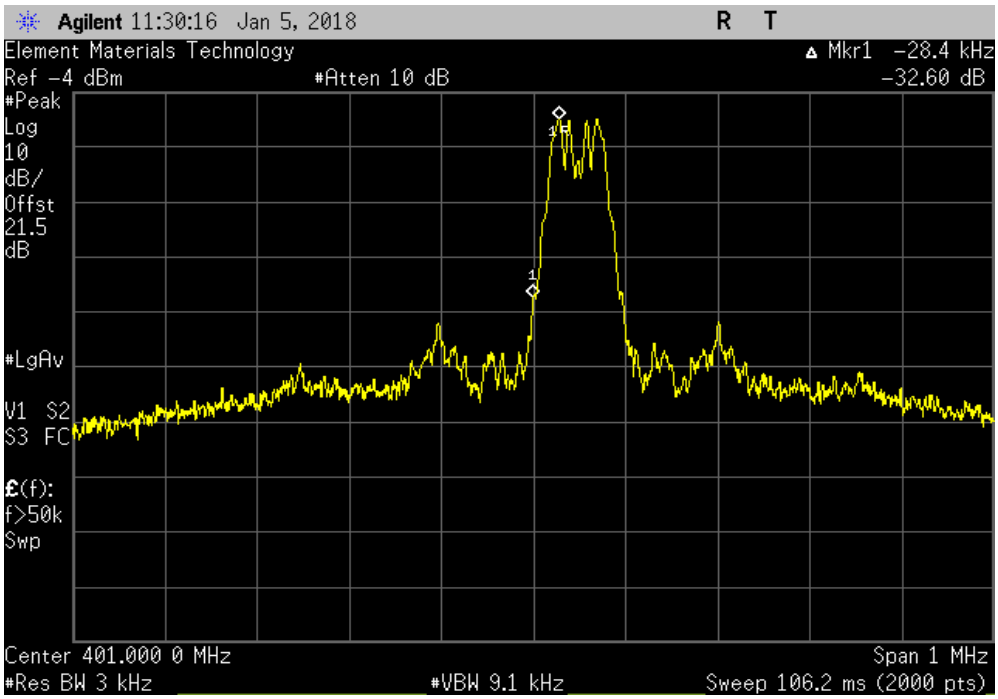
| **Configuration #** | **6** | *Signature* |
|---|---|---|

| | **Value (dBc)** | **Limit ≤ (dBc)** | **Result** |
|---|---|---|---|
| MEDS Low Band, Low Channel, 401.05 MHz | -32.60 | -20 | Pass |
| MEDS Low Band, High Channel, 401.85 MHz | -37.49 | -20 | Pass |
| MEDS High Band, Low Channel, 405.05 MHz | -32.47 | -20 | Pass |
| MEDS High Band, High Channel, 405.85 MHz | -37.20 | -20 | Pass |

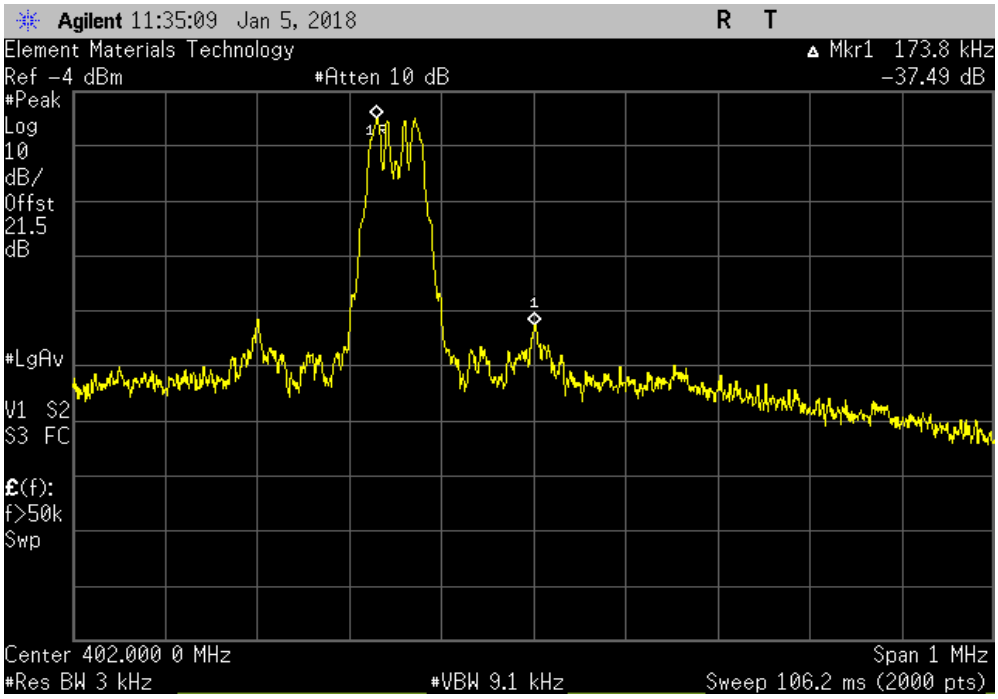
# EMISSIONS MASK



| MEDS Low Band, Low Channel, 401.05 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Value (dBc) | Limit ≤ (dBc) | Result |
| | | | | -32.60 | -20 | Pass |



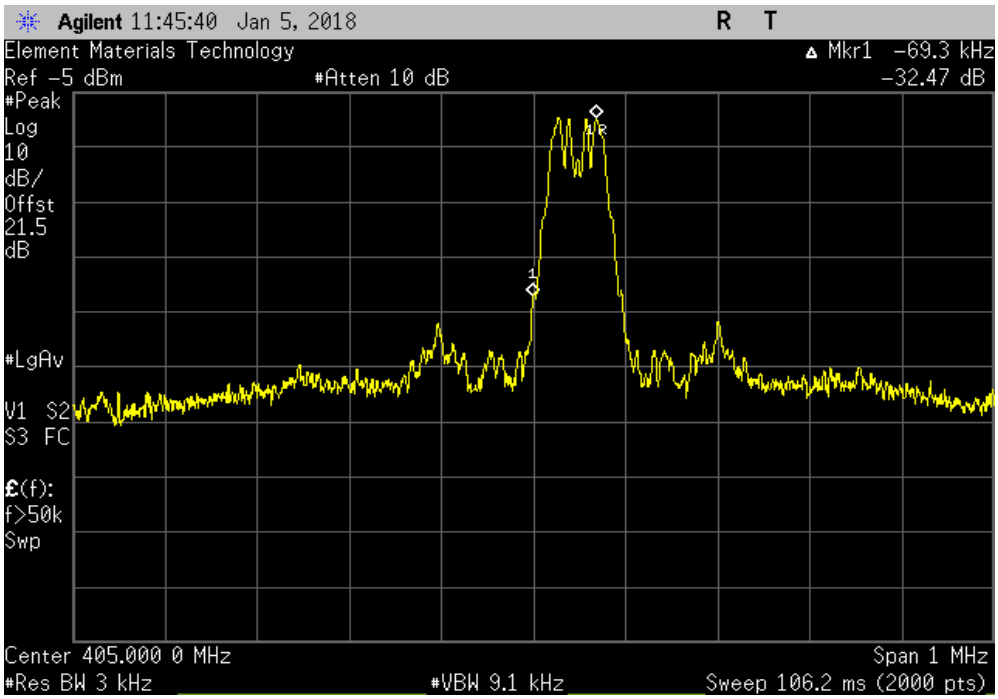

| MEDS Low Band, High Channel, 401.85 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Value (dBc) | Limit ≤ (dBc) | Result |
| | | | | -37.49 | -20 | Pass |



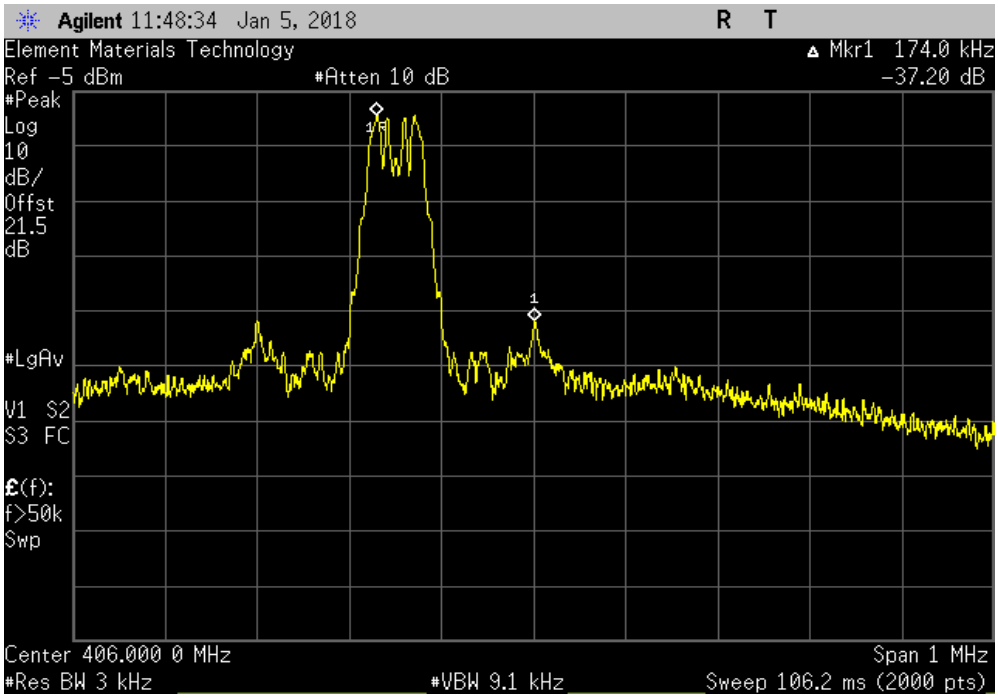
# EMISSIONS MASK



| MEDS High Band, Low Channel, 405.05 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Value (dBc) | Limit ≤ (dBc) | Result |
| | | | | -32.47 | -20 | Pass |




| MEDS High Band, High Channel, 405.85 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Value (dBc) | Limit ≤ (dBc) | Result |
| | | | | -37.20 | -20 | Pass |



# CONDUCTED OUTPUT POWER

XMit 2017.12.13

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**TEST EQUIPMENT**

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|---|---|---|---|---|---|
| Generator - Signal | Agilent | N5182A | TIF | 23-Aug-17 | 23-Aug-20 |
| Cable | Fairview Microwave | SCA1814-0101-120 | OCZ | NCR | NCR |
| Attenuator | Fairview Microwave | SA18H-20 | TKR | 28-Dec-17 | 28-Dec-18 |
| Block - DC | Aeroflex | INMET 8535 | AMO | 27-Mar-17 | 27-Mar-18 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AFA | 9-Nov-17 | 9-Nov-18 |

**TEST DESCRIPTION**

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per FCC Part 2.1046, RSS-GEN, the output power shall be measured at the RF terminal. The peak output power was measured with the EUT configured in the modes listed in the datasheet. The EUT was transmitting at its maximum data rate.

FCC Part 95 and RSS-243 have no conducted output power limit. It is a requirement to characterize this information and that data is contained within this datasheet.

# CONDUCTED OUTPUT POWER

TbtTx 2017.10.04 XMit 2017.12.13

| | | | | | |
|---|---|---|---|---|---|
| **EUT:** | **External Pulse Generator (EPG) Model 1601** | | | **Work Order:** | **AXON0105** |
| **Serial Number:** | **AT1B000003** | | | **Date:** | **5-Jan-18** |
| **Customer:** | **Axonics Modulation Technologies, Inc.** | | | **Temperature:** | **22.1 °C** |
| **Attendees:** | **Franklin Portillo** | | | **Humidity:** | **53.5% RH** |
| **Project:** | **None** | | | **Barometric Pres.:** | **1022 mbar** |
| **Tested by:** | **Johnny Candelas** | **Power:** | **3.0VDC** | **Job Site:** | **OC13** |

| **TEST SPECIFICATIONS** | **Test Method** |
|---|---|
| **FCC 95I:2018** | ANSI C63.26:2015 |
| | |

**COMMENTS**

**DC Block + 20dB Attenuator + Coax Cable = 21.5dB Total Offset**
**Power Index = 40**

**DEVIATIONS FROM TEST STANDARD**

**None**

| | | |
|---|---|---|
| **Configuration #** | **6** | *Signature* |

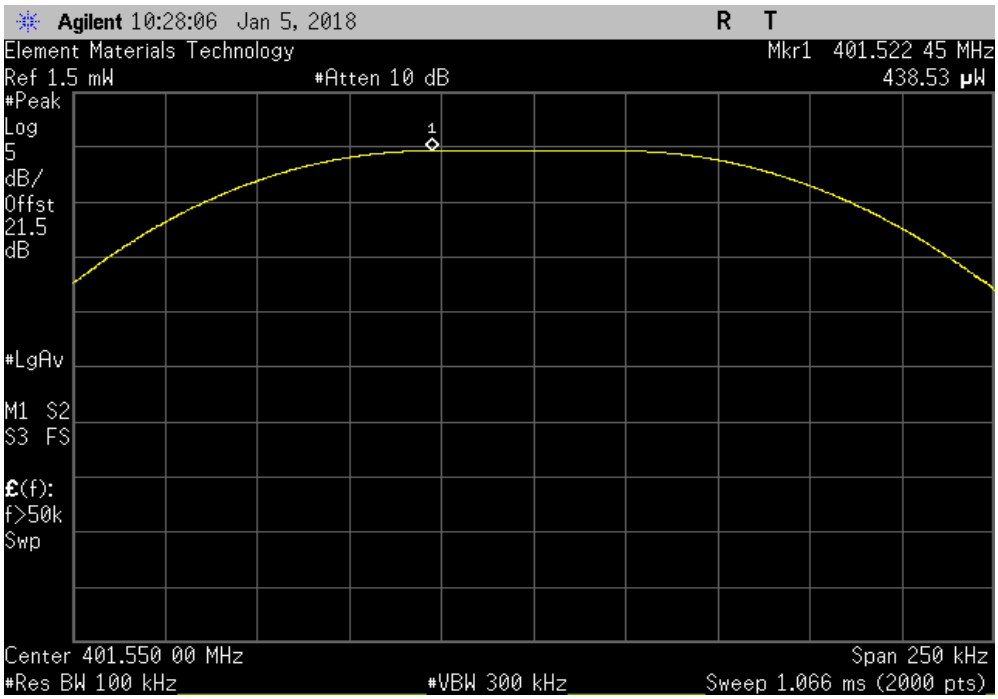
| | **Value** | **Limit** | **Result** |
|---|---|---|---|
| MEDS Low Band, Mid Channel, 401.55 MHz | 438.531 uW | N/A | N/A |
| MEDS High Band, Mid Channel, 405.55 MHz | 386.545 uW | N/A | N/A |

# CONDUCTED OUTPUT POWER

TbtTx 2017.10.04 XMit 2017.12.13

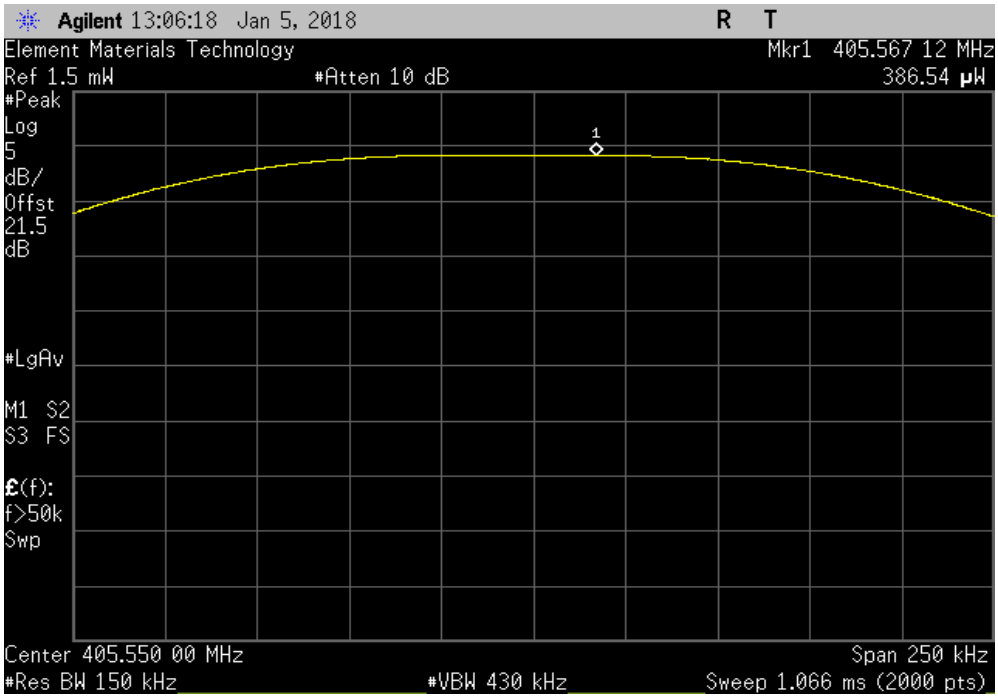
MEDS Low Band, Mid Channel, 401.55 MHz

| | | | | Value | Limit | Result |
|---|---|---|---|---|---|---|
| | | | | 438.531 uW | N/A | N/A |




MEDS High Band, Mid Channel, 405.55 MHz

| | | | | Value | Limit | Result |
|---|---|---|---|---|---|---|
| | | | | 386.545 uW | N/A | N/A |



# FREQUENCY STABILITY

XMit 2017.12.13

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 |
|---|---|---|---|---|---|
| Meter - Multimeter | Fluke | 79 III | MMD | 11-Feb-16 | 11-Feb-19 |
| Thermometer | Omega Engineering, Inc. | HH311 | DUC | 8-Nov-17 | 8-Nov-20 |
| Chamber - Temperature/Humidity | Cincinnati Sub Zero (CSZ) | ZPHS-32-3.5-SCT/AC | TBE | 27-Oct-17 | 27-Oct-18 |
| Generator - Signal | Agilent | N5182A | TIF | 23-Aug-17 | 23-Aug-20 |
| Cable | Fairview Microwave | SCA1814-0101-120 | OCZ | NCR | NCR |
| Attenuator | Fairview Microwave | SA18H-20 | TKR | 28-Dec-17 | 28-Dec-18 |
| Block - DC | Aeroflex | INMET 8535 | AMO | 27-Mar-17 | 27-Mar-18 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AFA | 9-Nov-17 | 9-Nov-18 |

**TEST DESCRIPTION**

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spectrum analyzer is configured with a precision frequency reference that exceeds the stability requirement of the transmitter. The EUT was placed inside a temperature / humidity chamber.

**Variation of Supply Voltage**
The primary supply voltage was varied over the range specified by the client. Per the client, the device only works over this voltage range; it will shut off if the voltage is outside the specified range.

**Variation of Ambient Temperature**
Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (+5°C, +20°C and +40° C).

# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| | | | | | |
|---|---|---|---|---|---|
| **EUT:** | External Pulse Generator (EPG) Model 1601 | | | **Work Order:** | AXON0105 |
| **Serial Number:** | AT1B000003 | | | **Date:** | 8-Jan-18 |
| **Customer:** | Axonics Modulation Technologies, Inc. | | | **Temperature:** | 21.9 °C |
| **Attendees:** | Flavio Ono | | | **Humidity:** | 62.8% RH |
| **Project:** | None | | | **Barometric Pres.:** | 1015 mbar |
| **Tested by:** | Johnny Candelas | **Power:** | 3.0VDC | **Job Site:** | OC13 |
| **TEST SPECIFICATIONS** | | **Test Method** | | | |
| FCC 95I:2018 | | ANSI C63.26:2015 | | | |

**COMMENTS**

DC Block + 20dB Attenuator + Coax Cable = 21.5dB Total Offset
Power Index = 40

**DEVIATIONS FROM TEST STANDARD**

None

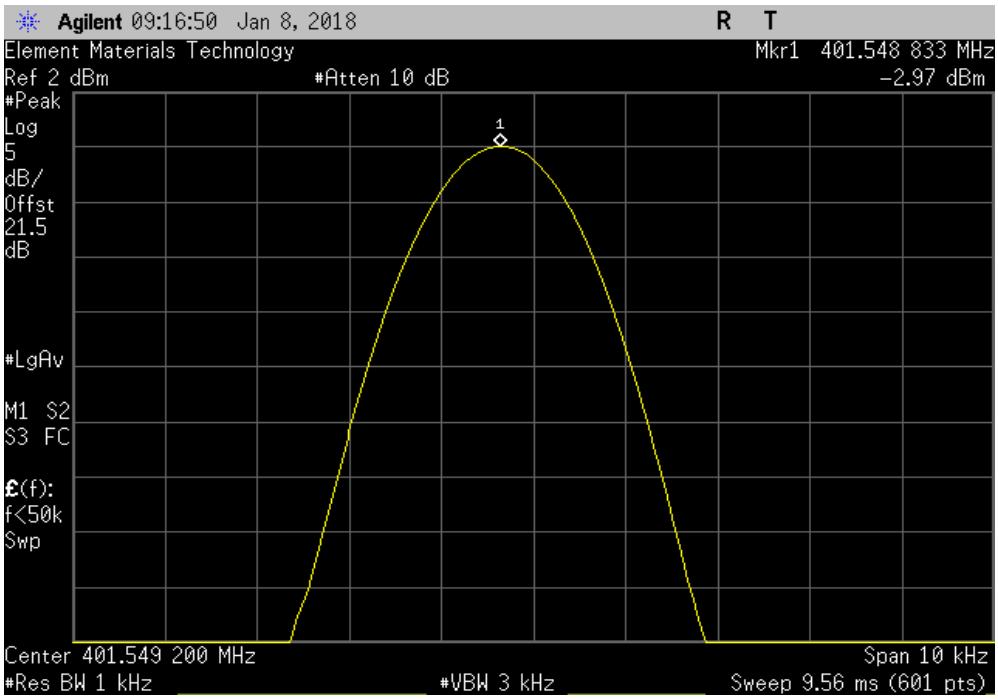
| **Configuration #** | 6 | *Signature* |
|---|---|---|

| | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
|---|---|---|---|---|---|
| Battery Nominal Voltage 3.0VDC | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5488 | 401.55 | 2.9 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5486 | 405.55 | 3.5 | 100 | Pass |
| Extreme Battery Full Voltage 3.6VDC | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5488 | 401.55 | 3.0 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5486 | 405.55 | 3.5 | 100 | Pass |
| Extreme Battery Shutdown Voltage 2.3VDC | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5488 | 401.55 | 3.0 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5486 | 405.55 | 3.5 | 100 | Pass |
| Extreme Temperature +55°C | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5458 | 401.55 | 10.6 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5453 | 405.55 | 11.5 | 100 | Pass |
| Extreme Temperature +50°C | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5458 | 401.55 | 10.5 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5456 | 405.55 | 11.0 | 100 | Pass |
| Extreme Temperature +40°C | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5466 | 401.55 | 8.5 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5464 | 405.55 | 9.0 | 100 | Pass |
| Extreme Temperature +30°C | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5476 | 401.55 | 5.9 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5475 | 405.55 | 6.3 | 100 | Pass |
| Extreme Temperature +20°C | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5487 | 401.55 | 3.2 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5486 | 405.55 | 3.6 | 100 | Pass |
| Extreme Temperature +10°C | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5496 | 401.55 | 1.0 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5494 | 405.55 | 1.4 | 100 | Pass |
| Extreme Temperature 0°C | | | | | |
| MEDS Low Band, Mid Channel, 401.55 MHz | 401.5500 | 401.55 | 0.1 | 100 | Pass |
| MEDS High Band, Mid Channel, 405.55 MHz | 405.5499 | 405.55 | 0.3 | 100 | Pass |

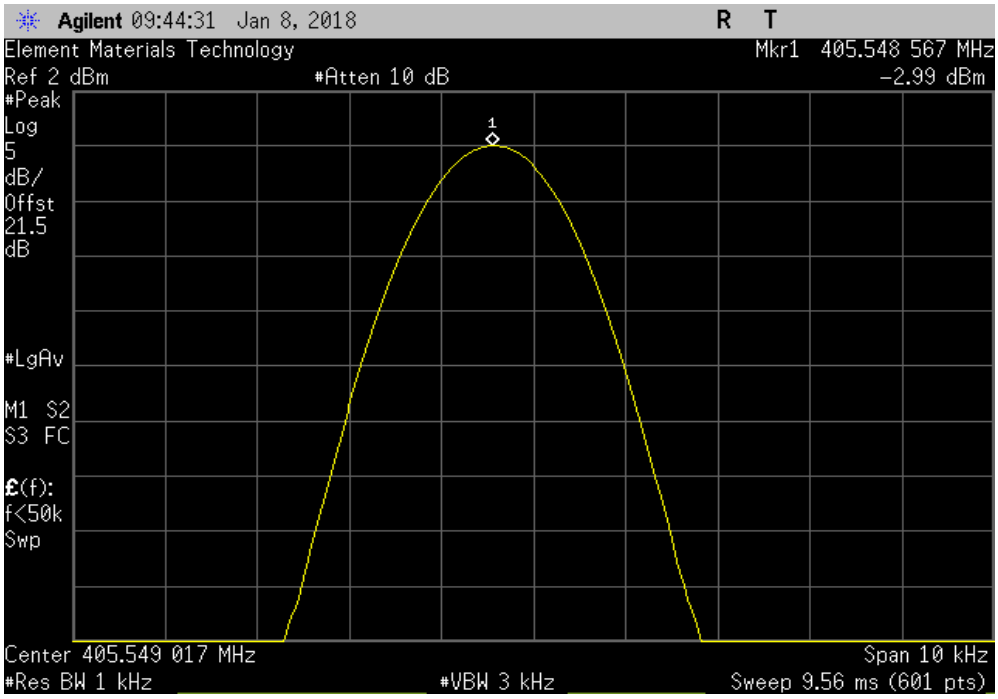
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Battery Nominal Voltage 3.0VDC, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5488 | 401.55 | 2.9 | 100 | Pass |



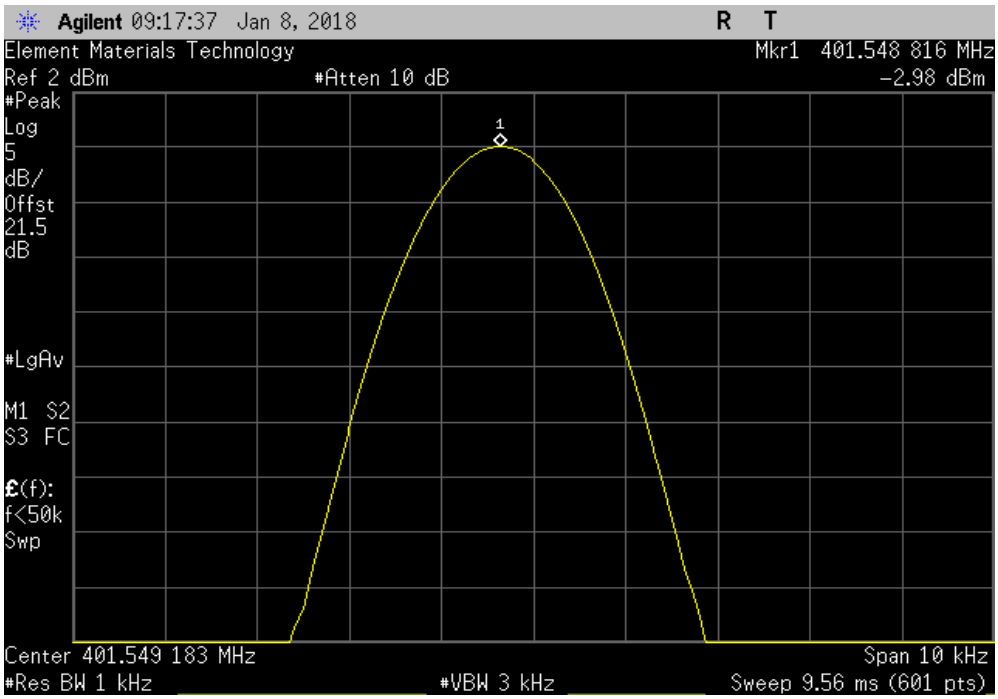

| Battery Nominal Voltage 3.0VDC, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5486 | 405.55 | 3.5 | 100 | Pass |



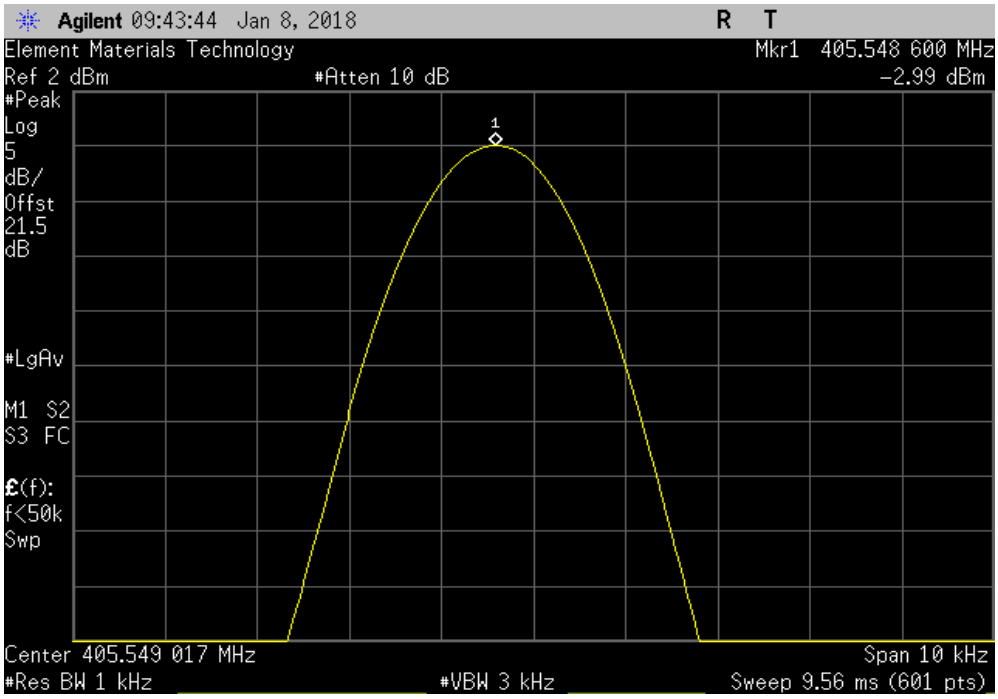
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Extreme Battery Full Voltage 3.6VDC, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5488 | 401.55 | 3.0 | 100 | Pass |



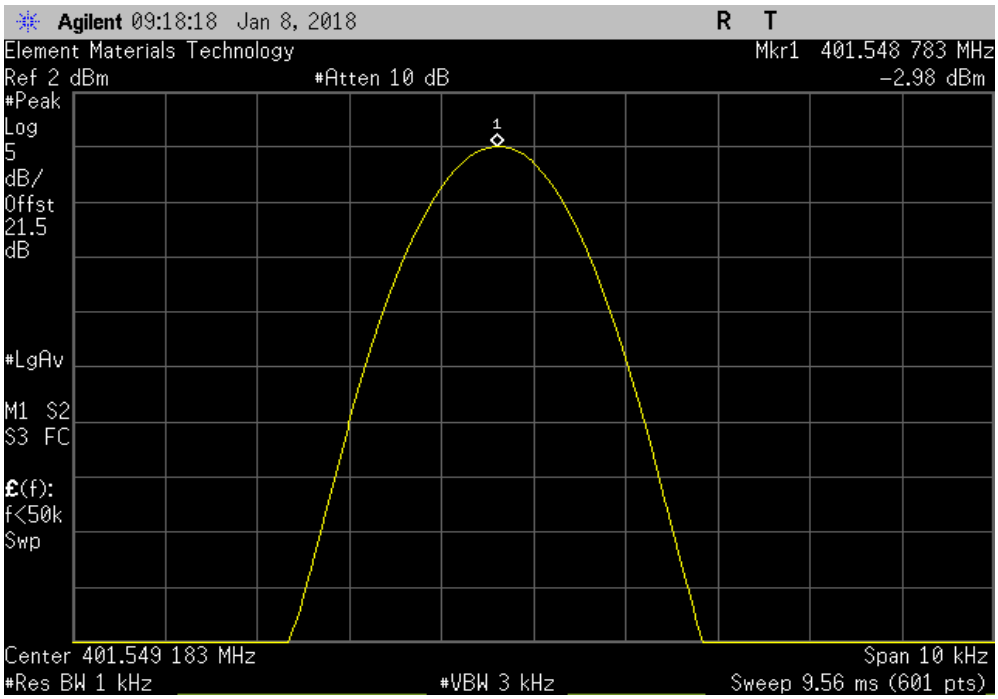

| Extreme Battery Full Voltage 3.6VDC, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5486 | 405.55 | 3.5 | 100 | Pass |



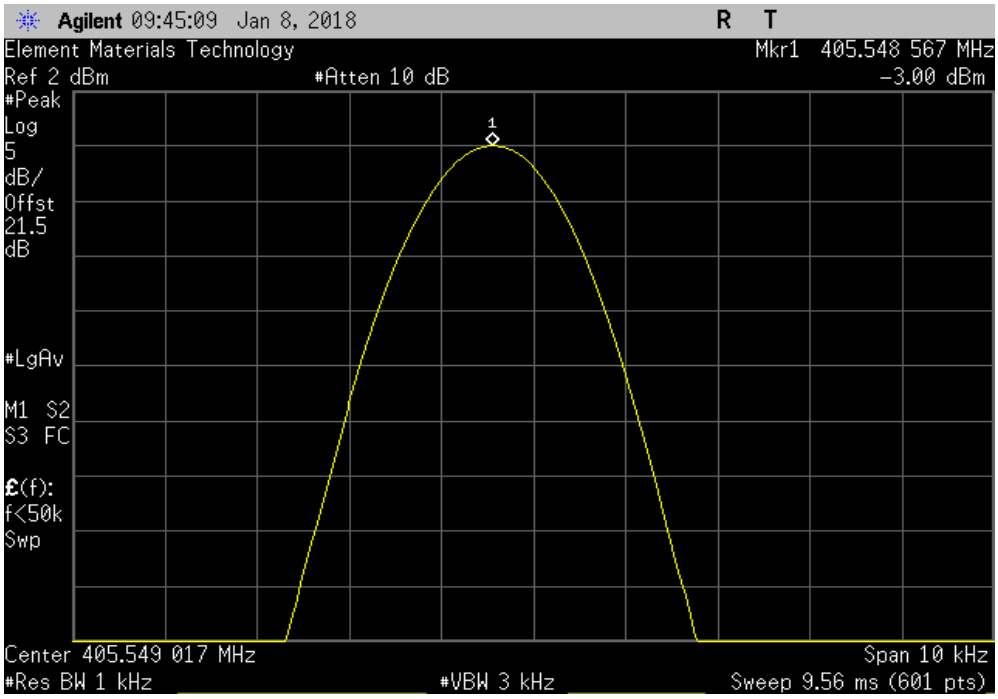
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Extreme Battery Shutdown Voltage 2.3VDC, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5488 | 401.55 | 3.0 | 100 | Pass |



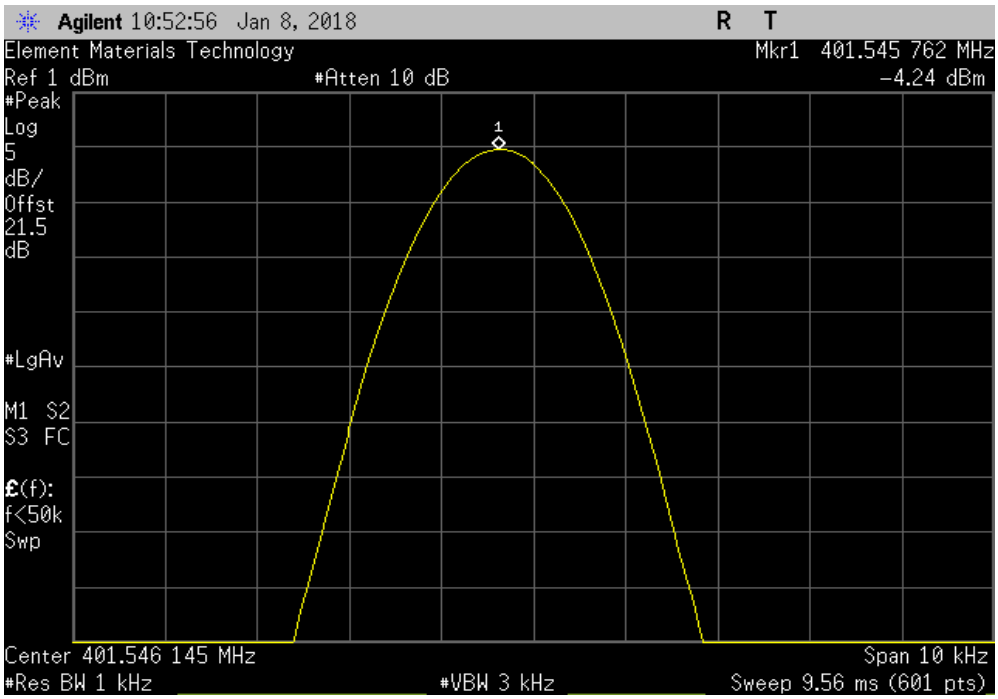

| Extreme Battery Shutdown Voltage 2.3VDC, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5486 | 405.55 | 3.5 | 100 | Pass |



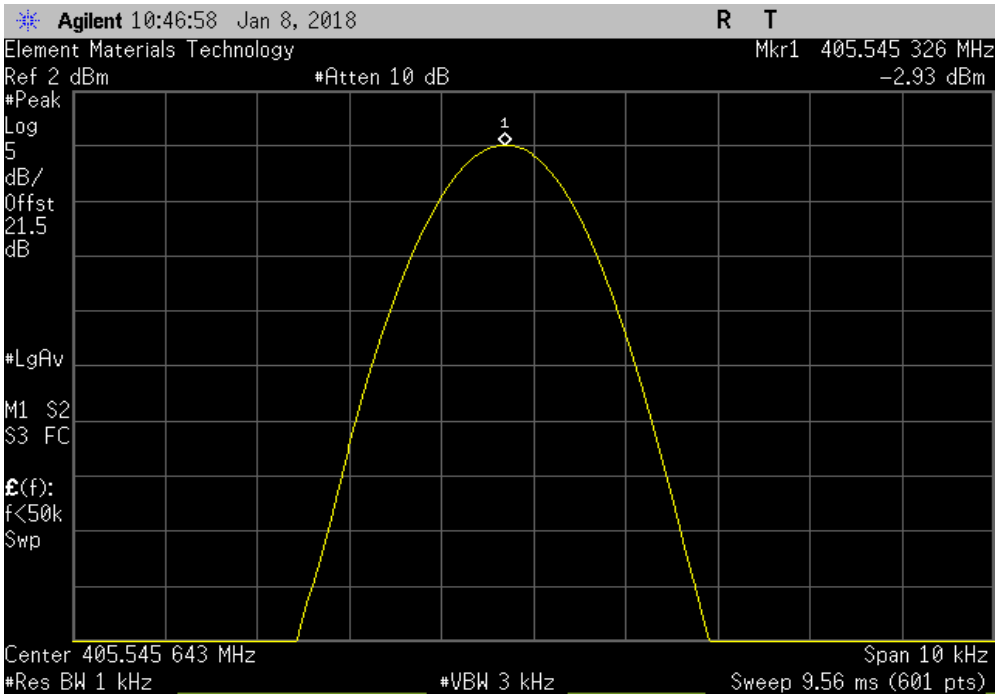
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Extreme Temperature +55°C, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5458 | 401.55 | 10.6 | 100 | Pass |



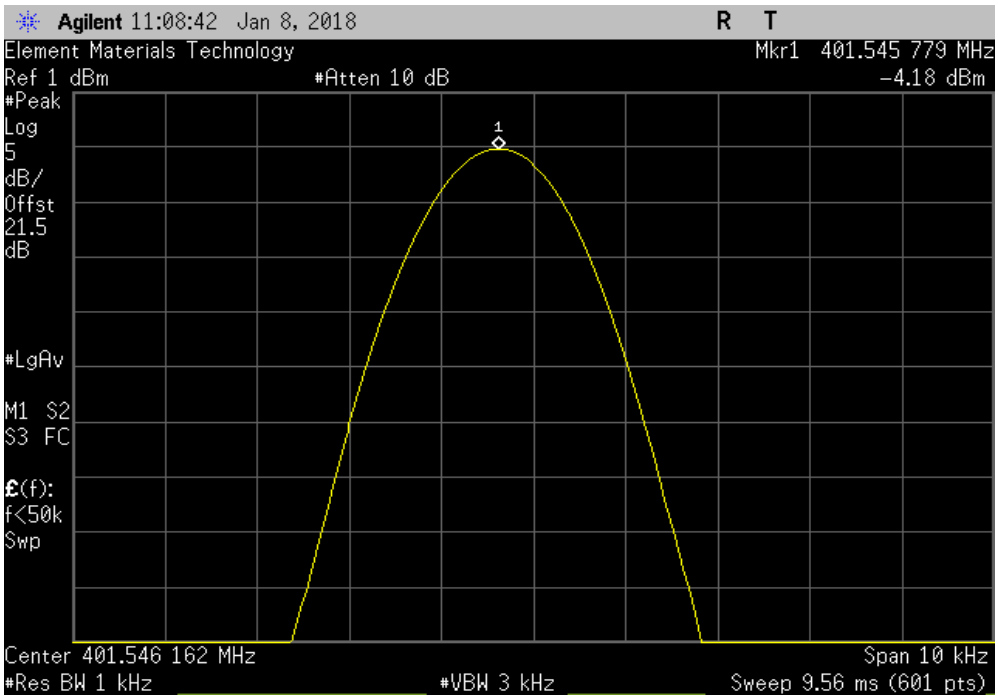

| Extreme Temperature +55°C, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5453 | 405.55 | 11.5 | 100 | Pass |



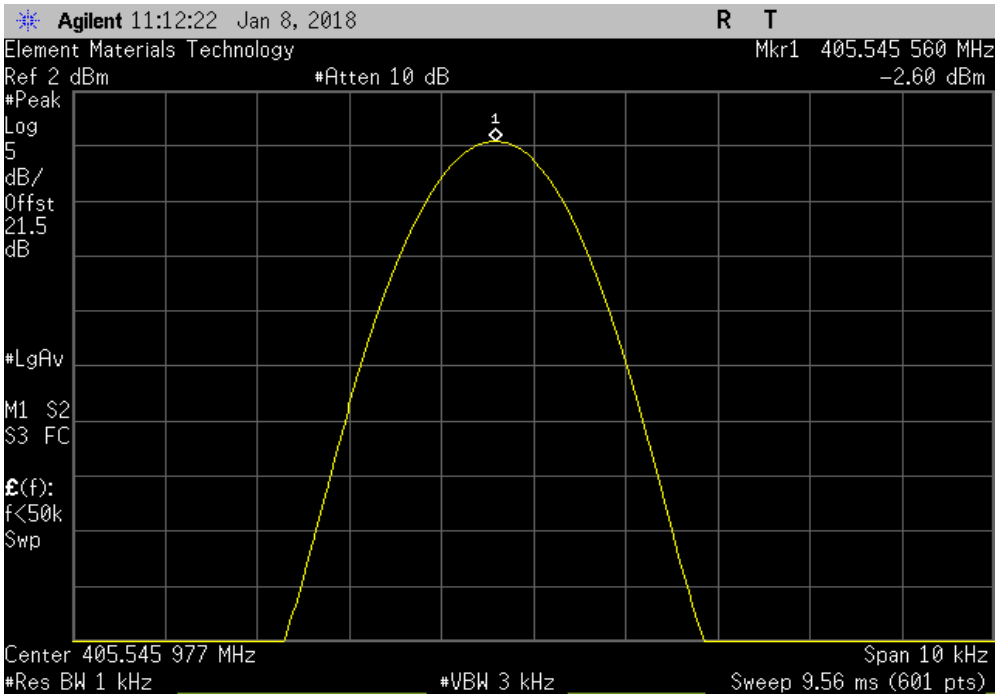
# FREQUENCY STABILITY



| Extreme Temperature +50°C, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5458 | 401.55 | 10.5 | 100 | Pass |



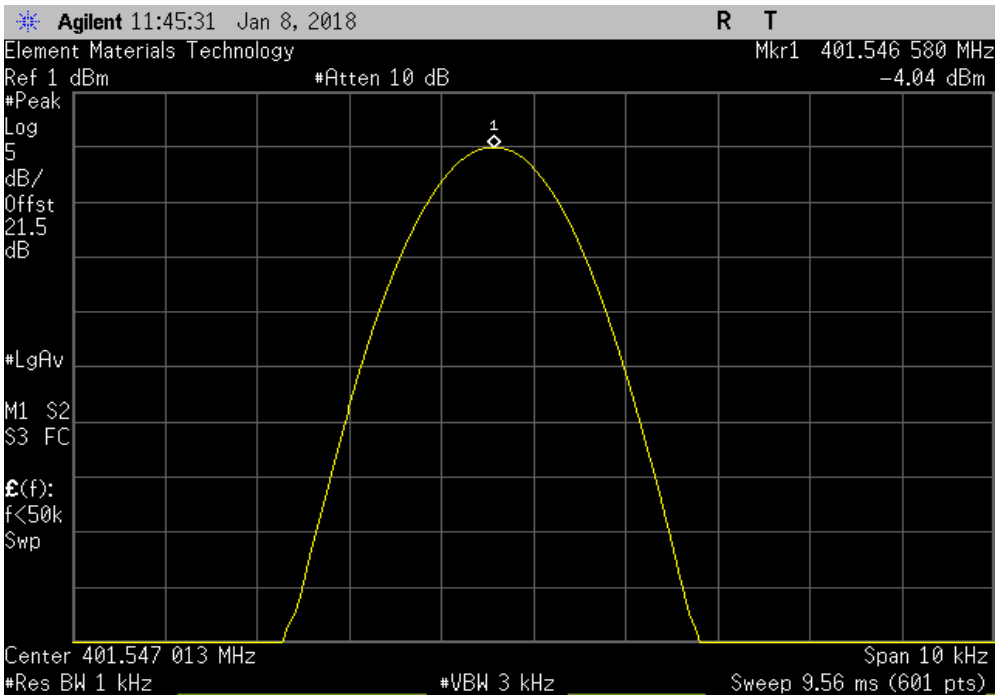

| Extreme Temperature +50°C, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5456 | 405.55 | 11.0 | 100 | Pass |



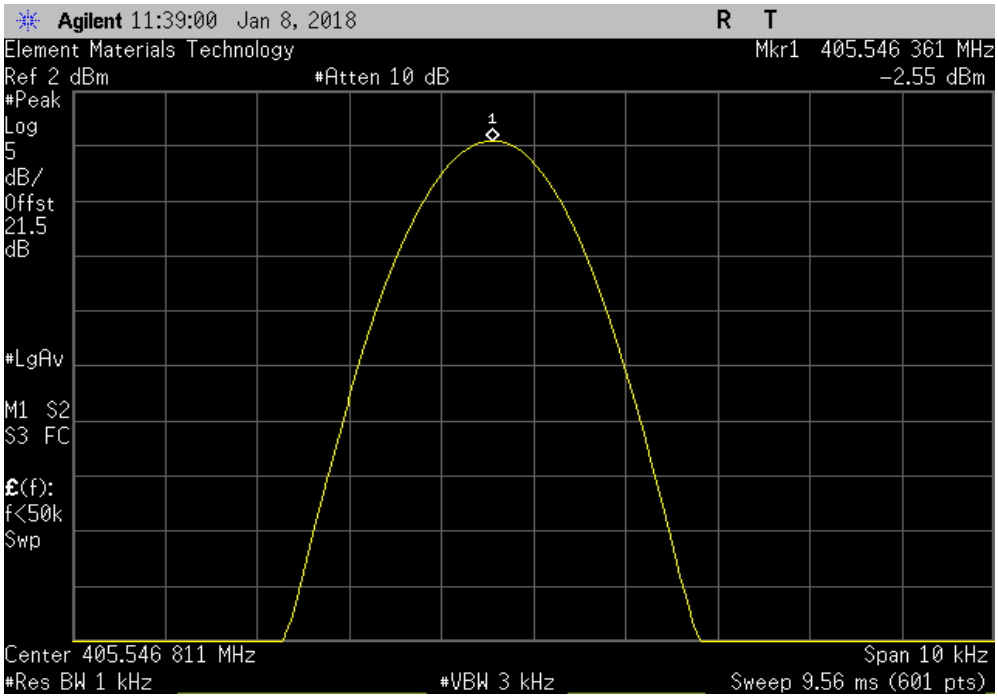
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Extreme Temperature +40°C, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5466 | 401.55 | 8.5 | 100 | Pass |



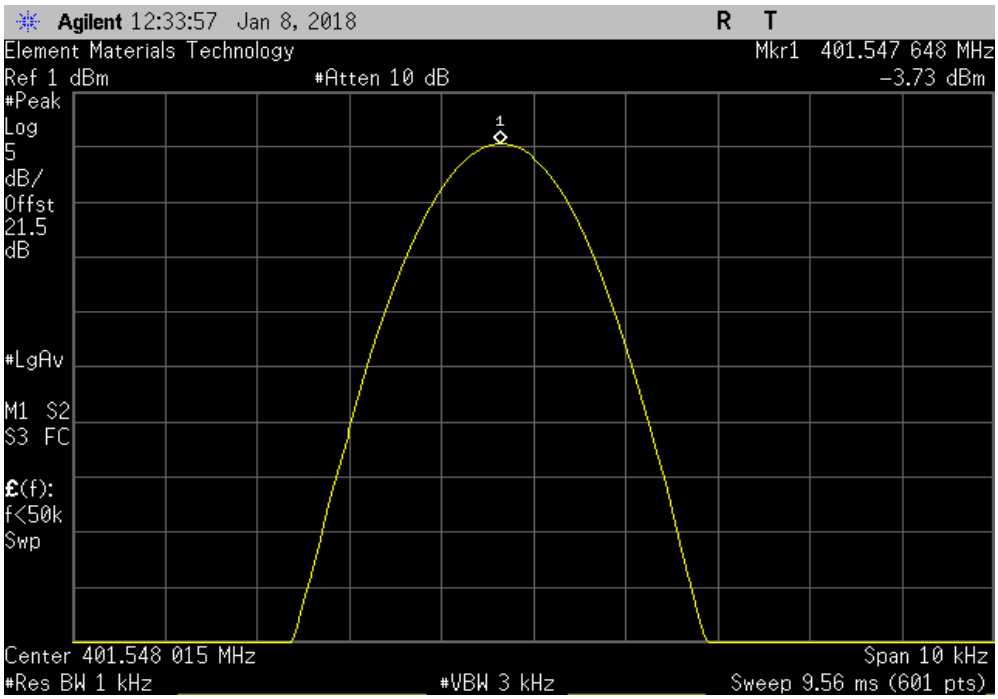

| Extreme Temperature +40°C, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5464 | 405.55 | 9.0 | 100 | Pass |



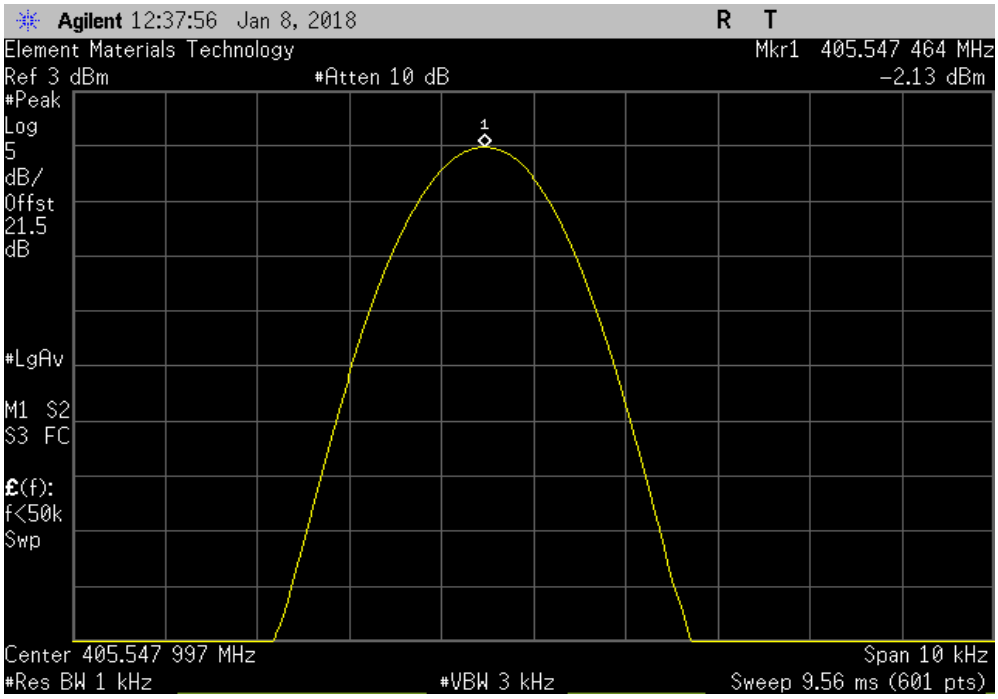
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Extreme Temperature +30°C, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5476 | 401.55 | 5.9 | 100 | Pass |



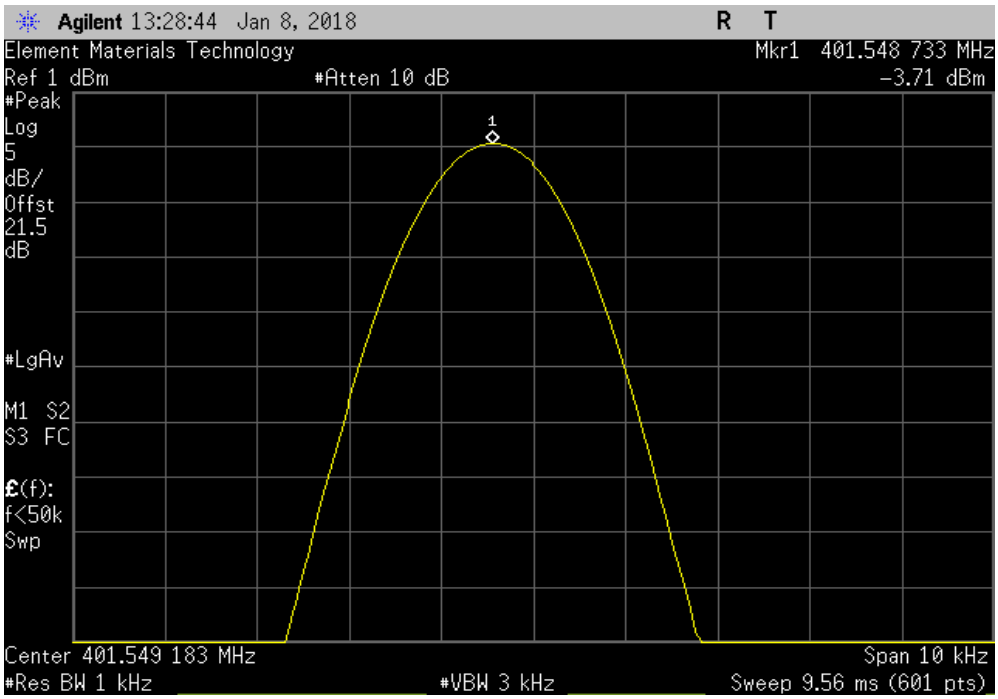

| Extreme Temperature +30°C, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5475 | 405.55 | 6.3 | 100 | Pass |



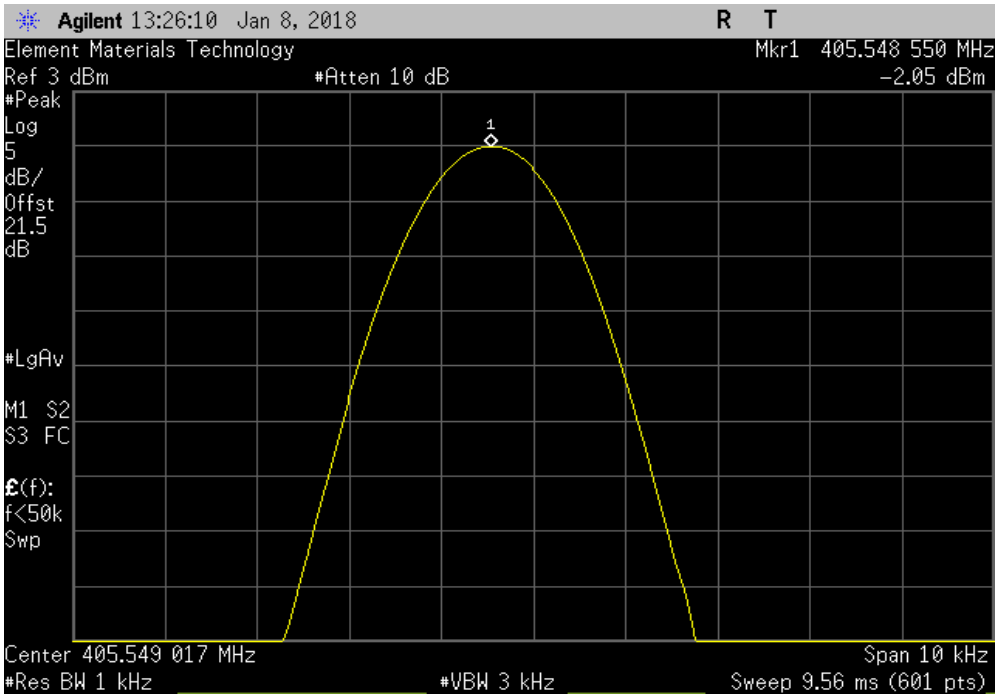
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Extreme Temperature +20°C, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5487 | 401.55 | 3.2 | 100 | Pass |



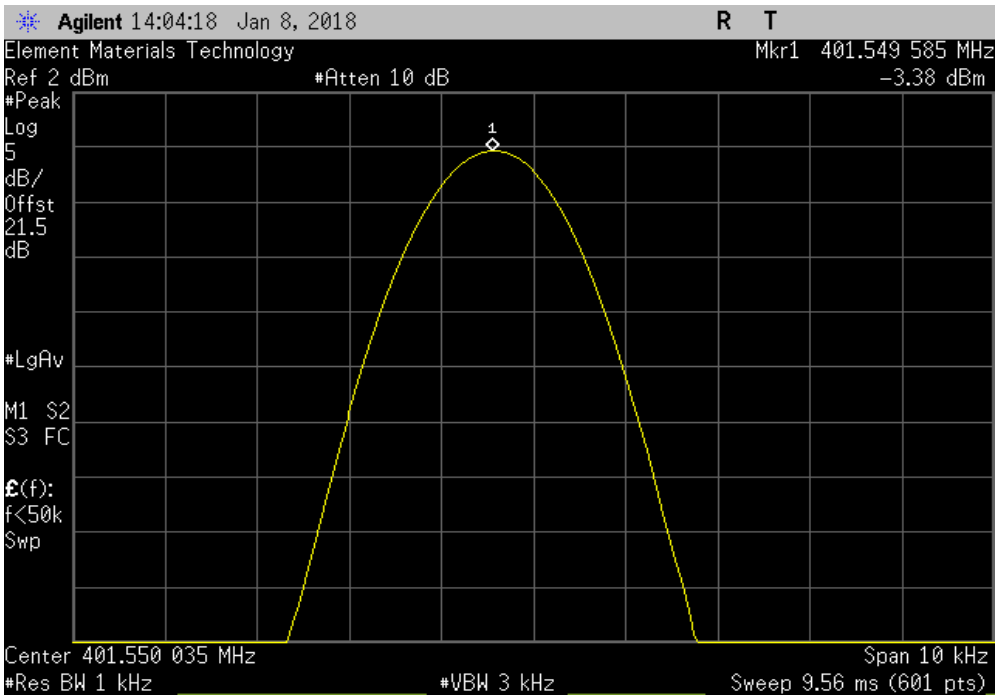

| Extreme Temperature +20°C, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5486 | 405.55 | 3.6 | 100 | Pass |



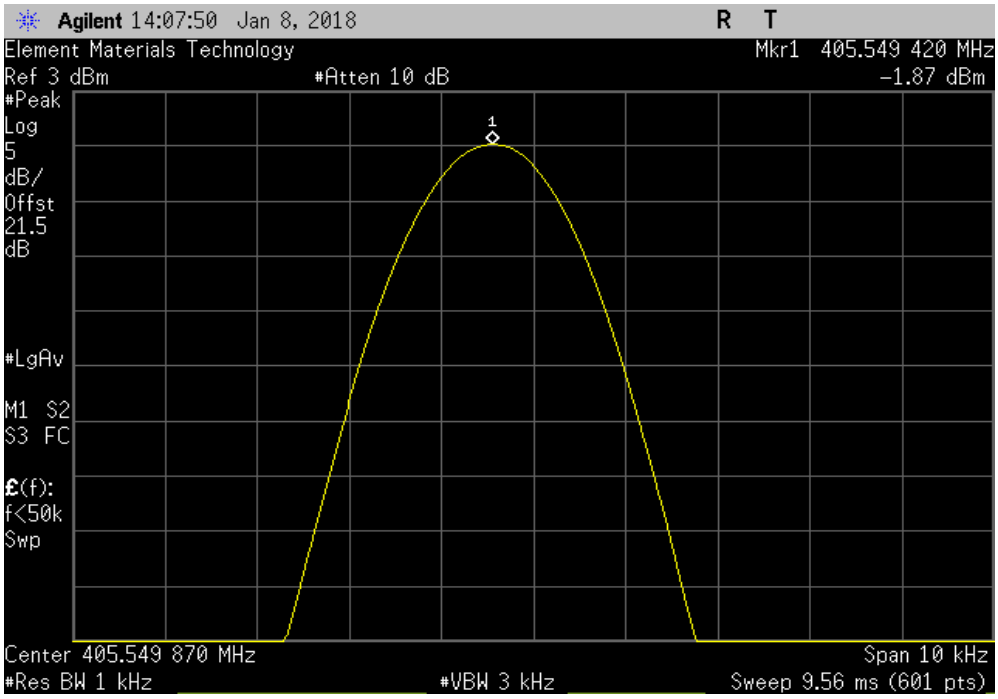
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Extreme Temperature +10°C, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5496 | 401.55 | 1.0 | 100 | Pass |



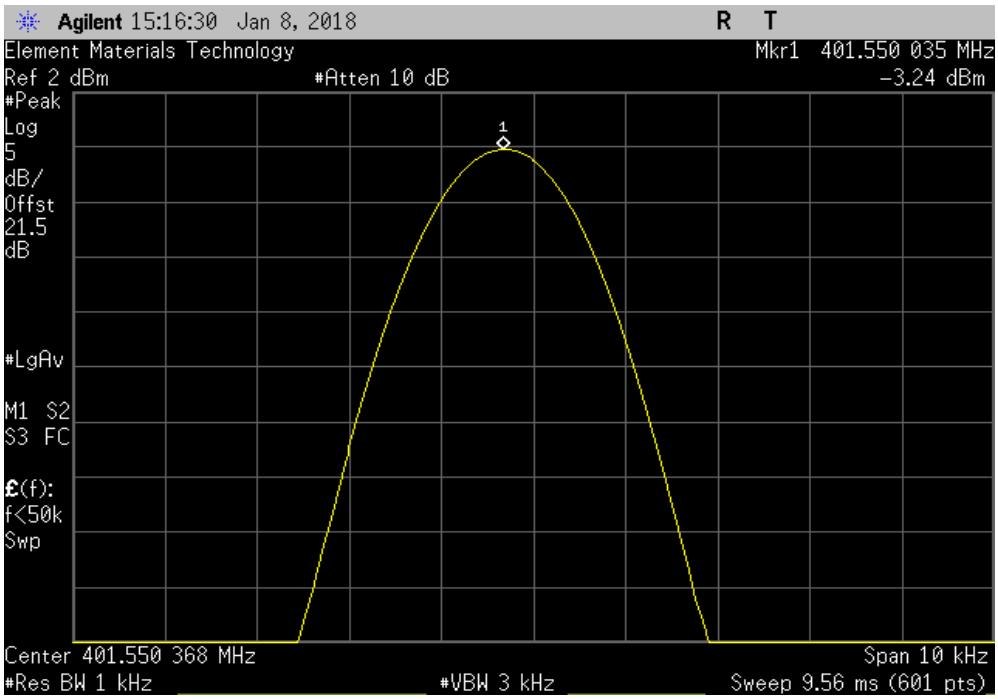

| Extreme Temperature +10°C, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5494 | 405.55 | 1.4 | 100 | Pass |



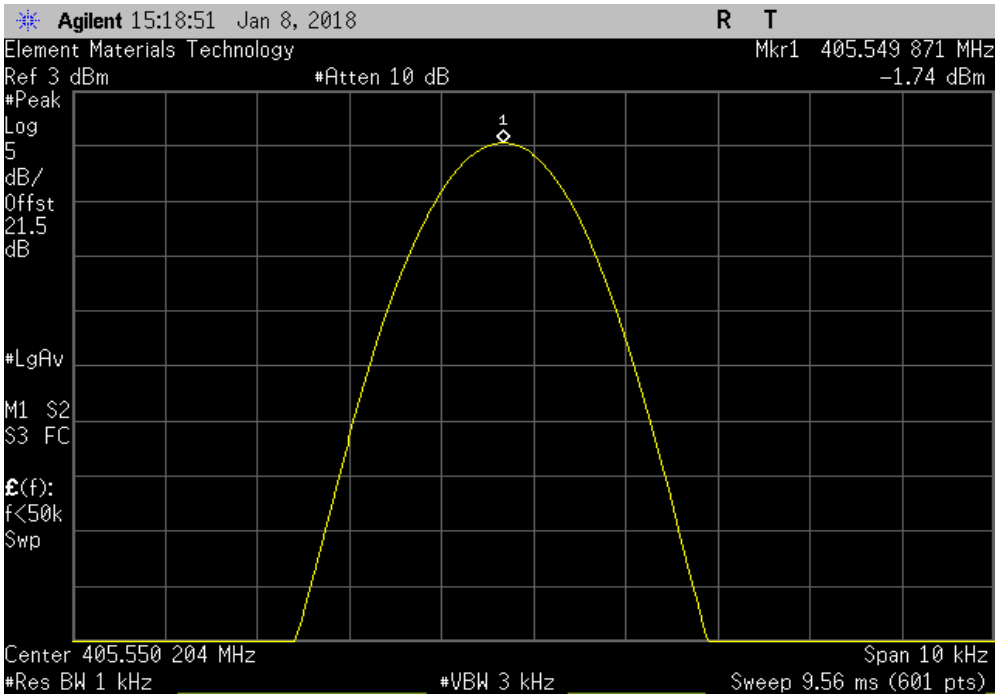
# FREQUENCY STABILITY

TbtTx 2017.10.04 XMit 2017.12.13

| Extreme Temperature 0°C, MEDS Low Band, Mid Channel, 401.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 401.5500 | 401.55 | 0.1 | 100 | Pass |




| Extreme Temperature 0°C, MEDS High Band, Mid Channel, 405.55 MHz | | | | | | |
|---|---|---|---|---|---|---|
| | | Measured Value (MHz) | Assigned Value (MHz) | Error (ppm) | Limit (ppm) | Results |
| | | 405.5499 | 405.55 | 0.3 | 100 | Pass |



# SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2017.09.18

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**

Transmitting Modulated at Mid Ch - MEDS Low Band = 401.55 MHz & Mid Ch - MEDS High Band = 405.55 MHz

**POWER SETTINGS INVESTIGATED**

Battery

**CONFIGURATIONS INVESTIGATED**

AXON0105 - 4

AXON0105 - 5

**FREQUENCY RANGE INVESTIGATED**

| Start Frequency | 30 MHz | Stop Frequency | 5000 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 |
|---|---|---|---|---|---|
| Cable | Northwest EMC | 1-8GHz RE Cables | OCJ | 13-Jul-2017 | 12 mo |
| Amplifier - Pre-Amplifier | Miteq | AMF-4D-010120-30-10P-1 | AOP | 13-Jul-2017 | 12 mo |
| Antenna - Double Ridge | EMCO | 3115 | AHB | 21-Mar-2016 | 24 mo |
| Cable | Northwest EMC | 10kHz-1GHz RE Cables | OCH | 1-Aug-2017 | 12 mo |
| Amplifier - Pre-Amplifier | Miteq | AM-1402 | AOZ | 1-Aug-2017 | 12 mo |
| Antenna - Biconilog | Teseq | CBL 6141A | AYE | 7-Nov-2017 | 24 mo |
| Analyzer - Spectrum Analyzer | Agilent | E4446A | AAY | 21-Nov-2017 | 12 mo |

**TEST DESCRIPTION**

The highest gain of each type of antenna to be used with the EUT was tested. For each configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.26). A preamp was used for this test in order to provide sufficient measurement sensitivity.

Per CFR 47 95.2579(a), field strength measurements were performed and compared to the specified limits.

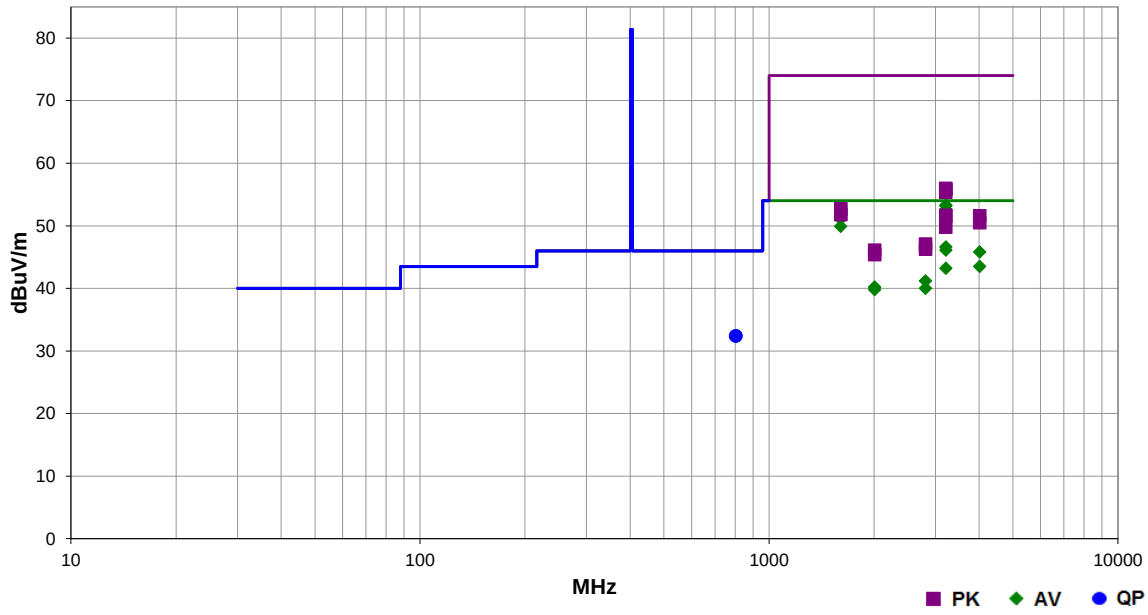
# SPURIOUS RADIATED EMISSIONS

EmiR5 2017.09.18.2 PSA-ESCI 2017.09.18

| | | | | | |
|---|---|---|---|---|---|
| **Work Order:** | AXON0105 | **Date:** | 3-Jan-2018 | | |
| **Project:** | None | **Temperature:** | 19.5 °C | | |
| **Job Site:** | OC10 | **Humidity:** | 52.3% RH | | |
| **Serial Number:** | AE1GC70009 | **Barometric Pres.:** | 1020 mbar | **Tested by:** | Johnny Candelas |
| **EUT:** | External Pulse Generator (EPG) Model 1601 | | | | |
| **Configuration:** | 4 | | | | |
| **Customer:** | Axonics Modulation Technologies, Inc. | | | | |
| **Attendees:** | Franklin Portillo | | | | |
| **EUT Power:** | Battery | | | | |
| **Operating Mode:** | Transmitting Modulated at Mid Ch - MEDS Low Band = 401.55 MHz & Mid Ch - MEDS High Band = 405.55 MHz | | | | |
| **Deviations:** | None | | | | |
| **Comments:** | Tined lead. EUT Vertical. Power Index = 40<br>X-Axis = EUT White Face Out, Y-Axis = EUT Grey Face Out, & Z-Axis = Grey Face Out turned 90° so top is facing out | | | | |

| **Test Specifications** | **Test Method** |
|---|---|
| FCC 95I:2018 | ANSI C63.26:2015 |

| **Run #** | 5 | **Test Distance (m)** | 3 | **Antenna Height(s)** | 1 to 3(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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3212.360 | 46.5 | 6.8 | 1.5 | 348.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 53.3 | 54.0 | -0.7 | Low 401.55 MHz, EUT Y-Axis |
| 3212.365 | 46.4 | 6.8 | 1.5 | 351.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 53.2 | 54.0 | -0.8 | Low 401.55 MHz, EUT X-Axis |
| 3212.375 | 45.8 | 6.8 | 1.2 | 333.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 52.6 | 54.0 | -1.4 | Low 401.55 MHz, EUT Z-Axis |
| 1606.185 | 51.0 | 0.1 | 1.5 | 354.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 51.1 | 54.0 | -2.9 | Low 401.55 MHz, EUT Y-Axis |
| 1606.180 | 49.8 | 0.1 | 1.5 | 340.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 49.9 | 54.0 | -4.1 | Low 401.55 MHz, EUT Z-Axis |
| 3212.415 | 39.8 | 6.8 | 1.5 | 9.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 46.6 | 54.0 | -7.4 | Low 401.55 MHz, EUT X-Axis |
| 3212.355 | 39.3 | 6.8 | 1.5 | 291.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 46.1 | 54.0 | -7.9 | Low 401.55 MHz, EUT Y-Axis |
| 4015.520 | 36.4 | 9.4 | 2.8 | 338.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 45.8 | 54.0 | -8.2 | Low 401.55 MHz, EUT Z-Axis |
| 4015.465 | 34.1 | 9.4 | 3.0 | 351.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 43.5 | 54.0 | -10.5 | Low 401.55 MHz, EUT Y-Axis |
| 3212.370 | 36.4 | 6.8 | 1.5 | 346.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 43.2 | 54.0 | -10.8 | Low 401.55 MHz, EUT Z-Axis |
| 2810.840 | 37.2 | 4.0 | 1.4 | 0.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 41.2 | 54.0 | -12.8 | Low 401.55 MHz, EUT Y-Axis |
| 803.191 | 16.4 | 16.0 | 1.5 | 2.0 | 3.0 | 0.0 | Horz | QP | 0.0 | 32.4 | 46.0 | -13.6 | Low 401.55 MHz, EUT Y-Axis |
| 802.800 | 16.4 | 16.0 | 2.5 | 14.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 32.4 | 46.0 | -13.6 | Low 401.55 MHz, EUT Z-Axis |
| 2007.730 | 37.6 | 2.6 | 1.5 | 16.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 40.2 | 54.0 | -13.8 | Low 401.55 MHz, EUT Y-Axis |
| 2810.835 | 36.0 | 4.0 | 1.5 | 326.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 40.0 | 54.0 | -14.0 | Low 401.55 MHz, EUT Z-Axis |
| 2007.765 | 37.2 | 2.6 | 1.5 | 329.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 39.8 | 54.0 | -14.2 | Low 401.55 MHz, EUT Z-Axis |
| 3212.060 | 49.2 | 6.8 | 1.5 | 348.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 56.0 | 74.0 | -18.0 | Low 401.55 MHz, EUT Y-Axis |
| 3212.240 | 49.0 | 6.8 | 1.5 | 351.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 55.8 | 74.0 | -18.2 | Low 401.55 MHz, EUT X-Axis |
| 3212.085 | 48.6 | 6.8 | 1.2 | 333.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 55.4 | 74.0 | -18.6 | Low 401.55 MHz, EUT Z-Axis |
| 1606.260 | 52.6 | 0.1 | 1.5 | 354.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 52.7 | 74.0 | -21.3 | Low 401.55 MHz, EUT Y-Axis |
| 1606.390 | 51.7 | 0.1 | 1.5 | 340.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 51.8 | 74.0 | -22.2 | Low 401.55 MHz, EUT Z-Axis |
| 3212.150 | 44.9 | 6.8 | 1.5 | 291.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 51.7 | 74.0 | -22.3 | Low 401.55 MHz, EUT Y-Axis |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3211.935 | 44.8 | 6.8 | 1.5 | 9.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 51.6 | 74.0 | -22.4 | Low 401.55 MHz, EUT X-Axis |
| 4014.960 | 42.2 | 9.4 | 2.8 | 338.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 51.6 | 74.0 | -22.4 | Low 401.55 MHz, EUT Z-Axis |
| 4015.255 | 41.1 | 9.4 | 3.0 | 351.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 50.5 | 74.0 | -23.5 | Low 401.55 MHz, EUT Y-Axis |
| 3212.075 | 43.0 | 6.8 | 1.5 | 346.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 49.8 | 74.0 | -24.2 | Low 401.55 MHz, EUT Z-Axis |
| 2810.545 | 43.1 | 4.0 | 1.4 | 0.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 47.1 | 74.0 | -26.9 | Low 401.55 MHz, EUT Y-Axis |
| 2810.875 | 42.3 | 4.0 | 1.5 | 326.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 46.3 | 74.0 | -27.7 | Low 401.55 MHz, EUT Z-Axis |
| 2007.785 | 43.5 | 2.6 | 1.5 | 16.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 46.1 | 74.0 | -27.9 | Low 401.55 MHz, EUT Y-Axis |
| 2007.495 | 42.8 | 2.6 | 1.5 | 329.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 45.4 | 74.0 | -28.6 | Low 401.55 MHz, EUT Z-Axis |

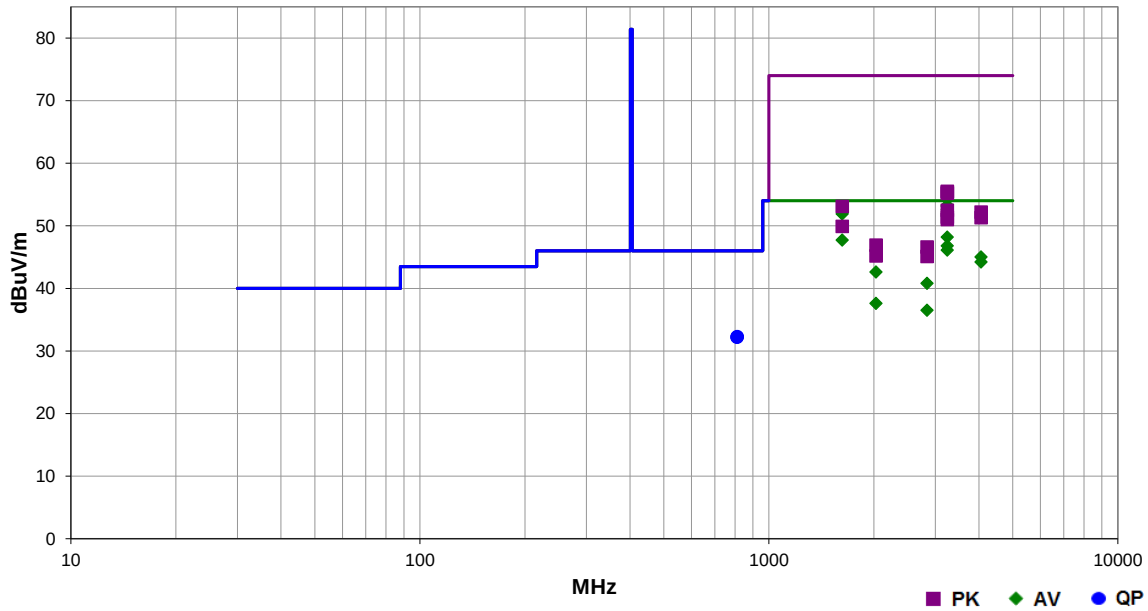
# SPURIOUS RADIATED EMISSIONS

EmiR5 2017.09.18.2 PSA-ESCI 2017.09.18

| | | | | | |
|---|---|---|---|---|---|
| **Work Order:** | AXON0105 | **Date:** | 3-Jan-2018 | | |
| **Project:** | None | **Temperature:** | 19.5 °C | | |
| **Job Site:** | OC10 | **Humidity:** | 52.3% RH | | |
| **Serial Number:** | AE1GC70009 | **Barometric Pres.:** | 1020 mbar | **Tested by:** | Johnny Candelas |
| **EUT:** | External Pulse Generator (EPG) Model 1601 | | | | |
| **Configuration:** | 5 | | | | |
| **Customer:** | Axonics Modulation Technologies, Inc. | | | | |
| **Attendees:** | Franklin Portillo | | | | |
| **EUT Power:** | Battery | | | | |
| **Operating Mode:** | Transmitting Modulated at Mid Ch - MEDS Low Band = 401.55 MHz & Mid Ch - MEDS High Band = 405.55 MHz | | | | |
| **Deviations:** | None | | | | |
| **Comments:** | PNE lead. EUT Vertical. Power Index = 40<br>X-Axis = EUT White Face Out, Y-Axis = EUT Grey Face Out, & Z-Axis = Grey Face Out turned 90° so top is facing out | | | | |

| **Test Specifications** | **Test Method** |
|---|---|
| FCC 95I:2018 | ANSI C63.26:2015 |

| **Run #** | 9 | **Test Distance (m)** | 3 | **Antenna Height(s)** | 1 to 3(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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3244.400 | 46.5 | 6.8 | 1.5 | 343.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 53.3 | 54.0 | -0.7 | High 405.55 MHz, EUT Y-Axis |
| 3244.345 | 46.3 | 6.8 | 1.0 | 0.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 53.1 | 54.0 | -0.9 | High 405.55 MHz, EUT Z-Axis |
| 3244.370 | 45.8 | 6.8 | 1.5 | 354.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 52.6 | 54.0 | -1.4 | High 405.55 MHz, EUT X-Axis |
| 1622.200 | 51.8 | 0.1 | 1.4 | 344.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 51.9 | 54.0 | -2.1 | High 405.55 MHz, EUT Z-Axis |
| 3244.365 | 41.4 | 6.8 | 1.5 | 41.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 48.2 | 54.0 | -5.8 | High 405.55 MHz, EUT Y-Axis |
| 1622.195 | 47.6 | 0.1 | 1.4 | 360.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 47.7 | 54.0 | -6.3 | High 405.55 MHz, EUT Y-Axis |
| 3244.330 | 40.0 | 6.8 | 3.0 | 324.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 46.8 | 54.0 | -7.2 | High 405.55 MHz, EUT Z-Axis |
| 3244.340 | 39.3 | 6.8 | 1.5 | 22.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 46.1 | 54.0 | -7.9 | High 405.55 MHz, EUT X-Axis |
| 4055.425 | 35.5 | 9.5 | 1.0 | 0.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 45.0 | 54.0 | -9.0 | High 405.55 MHz, EUT Z-Axis |
| 4055.400 | 34.7 | 9.5 | 2.6 | 12.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 44.2 | 54.0 | -9.8 | High 405.55 MHz, EUT Y-Axis |
| 2027.720 | 40.1 | 2.5 | 2.0 | 337.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 42.6 | 54.0 | -11.4 | High 405.55 MHz, EUT Z-Axis |
| 2838.840 | 36.6 | 4.2 | 1.5 | 3.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 40.8 | 54.0 | -13.2 | High 405.55 MHz, EUT Y-Axis |
| 811.503 | 16.4 | 15.9 | 1.5 | 55.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 32.3 | 46.0 | -13.7 | High 405.55 MHz, EUT Z-Axis |
| 810.843 | 16.4 | 15.8 | 3.7 | 10.0 | 3.0 | 0.0 | Horz | QP | 0.0 | 32.2 | 46.0 | -13.8 | High 405.55 MHz, EUT Y-Axis |
| 2027.000 | 35.1 | 2.5 | 1.5 | 352.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 37.6 | 54.0 | -16.4 | High 405.55 MHz, EUT Y-Axis |
| 2838.830 | 32.3 | 4.2 | 1.2 | 16.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 36.5 | 54.0 | -17.5 | High 405.55 MHz, EUT Z-Axis |
| 3244.440 | 48.7 | 6.8 | 1.5 | 343.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 55.5 | 74.0 | -18.5 | High 405.55 MHz, EUT Y-Axis |
| 3244.290 | 48.6 | 6.8 | 1.5 | 354.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 55.4 | 74.0 | -18.6 | High 405.55 MHz, EUT X-Axis |
| 3244.135 | 48.4 | 6.8 | 1.0 | 0.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 55.2 | 74.0 | -18.8 | High 405.55 MHz, EUT Z-Axis |
| 1622.120 | 53.0 | 0.1 | 1.4 | 344.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 53.1 | 74.0 | -20.9 | High 405.55 MHz, EUT Z-Axis |
| 3244.355 | 45.7 | 6.8 | 1.5 | 41.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 52.5 | 74.0 | -21.5 | High 405.55 MHz, EUT Y-Axis |
| 4055.565 | 42.7 | 9.5 | 2.6 | 12.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 52.2 | 74.0 | -21.8 | High 405.55 MHz, EUT Y-Axis |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3244.285 | 44.6 | 6.8 | 3.0 | 324.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 51.4 | 74.0 | -22.6 | High 405.55 MHz, EUT Z-Axis |
| 4055.725 | 41.8 | 9.5 | 1.0 | 0.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 51.3 | 74.0 | -22.7 | High 405.55 MHz, EUT Z-Axis |
| 3244.480 | 44.2 | 6.8 | 1.5 | 22.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 51.0 | 74.0 | -23.0 | High 405.55 MHz, EUT X-Axis |
| 1622.195 | 49.8 | 0.1 | 1.4 | 360.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 49.9 | 74.0 | -24.1 | High 405.55 MHz, EUT Y-Axis |
| 2027.595 | 44.4 | 2.5 | 2.0 | 337.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 46.9 | 74.0 | -27.1 | High 405.55 MHz, EUT Z-Axis |
| 2838.660 | 42.4 | 4.2 | 1.5 | 3.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 46.6 | 74.0 | -27.4 | High 405.55 MHz, EUT Y-Axis |
| 2027.500 | 42.7 | 2.5 | 1.5 | 352.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 45.2 | 74.0 | -28.8 | High 405.55 MHz, EUT Y-Axis |
| 2838.915 | 40.9 | 4.2 | 1.2 | 16.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 45.1 | 74.0 | -28.9 | High 405.55 MHz, EUT Z-Axis |

# SPURIOUS CONDUCTED EMISSIONS

XMit 2017.12.13

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 | N5182A | TIF | 23-Aug-17 | 23-Aug-20 |
| Cable | Fairview Microwave | SCA1814-0101-120 | OCZ | NCR | NCR |
| Attenuator | Fairview Microwave | SA18H-20 | TKR | 28-Dec-17 | 28-Dec-18 |
| Block - DC | Aeroflex | INMET 8535 | AMO | 27-Mar-17 | 27-Mar-18 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AFA | 9-Nov-17 | 9-Nov-18 |

**TEST DESCRIPTION**

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per FCC Part 2.1051, RSS-GEN, the spurious emissions shall be measured at the RF terminal. The peak spurious emissions were measured with the EUT configured to the modes listed in the datasheet. The EUT was transmitting at its maximum data rate.
FCC Part 95 and RSS-243 have no conducted spurious emissions limit. It is a requirement to characterize this information and that data is contained within this datasheet.

# SPURIOUS CONDUCTED EMISSIONS

XMit 2017.12.13

| | | | | | |
|---|---|---|---|---|---|
| **EUT:** | External Pulse Generator (EPG) Model 1601 | | | **Work Order:** | AXON0105 |
| **Serial Number:** | AT1B000003 | | | **Date:** | 5-Jan-18 |
| **Customer:** | Axonics Modulation Technologies, Inc. | | | **Temperature:** | 22.1 °C |
| **Attendees:** | Franklin Portillo | | | **Humidity:** | 53.5% RH |
| **Project:** | None | | | **Barometric Pres.:** | 1022 mbar |
| **Tested by:** | Johnny Candelas | **Power:** | 3.0VDC | **Job Site:** | OC13 |

| TEST SPECIFICATIONS | Test Method |
|---|---|
| FCC 95I:2018 | ANSI C63.26:2015 |
| | |

**COMMENTS**

DC Block + 20dB Attenuator + Coax Cable = 21.5dB Total Offset
Power Index = 40

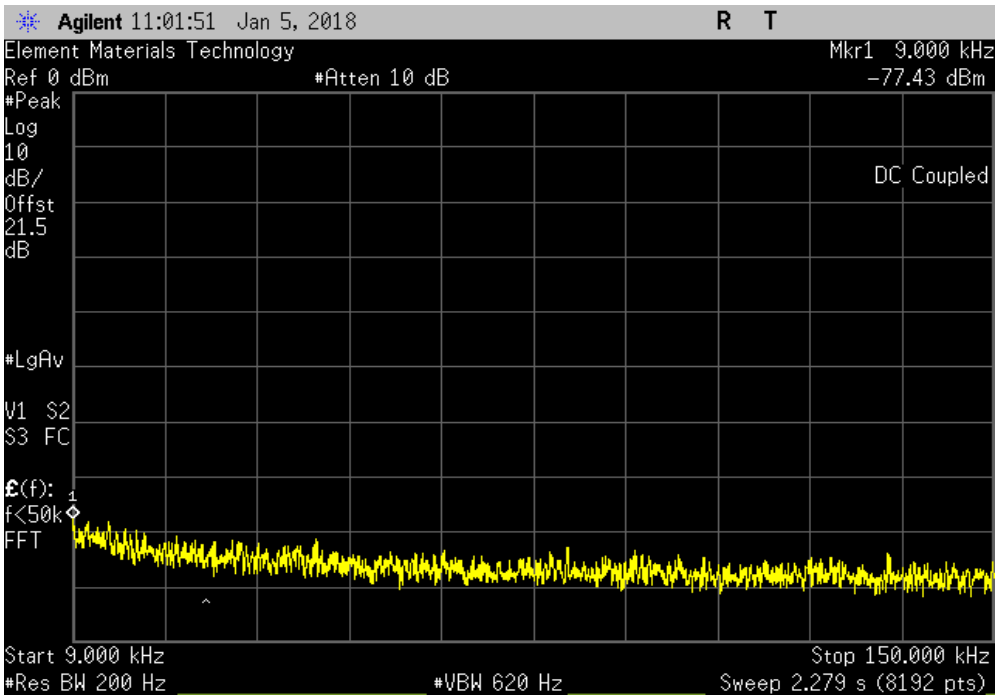
**DEVIATIONS FROM TEST STANDARD**

None

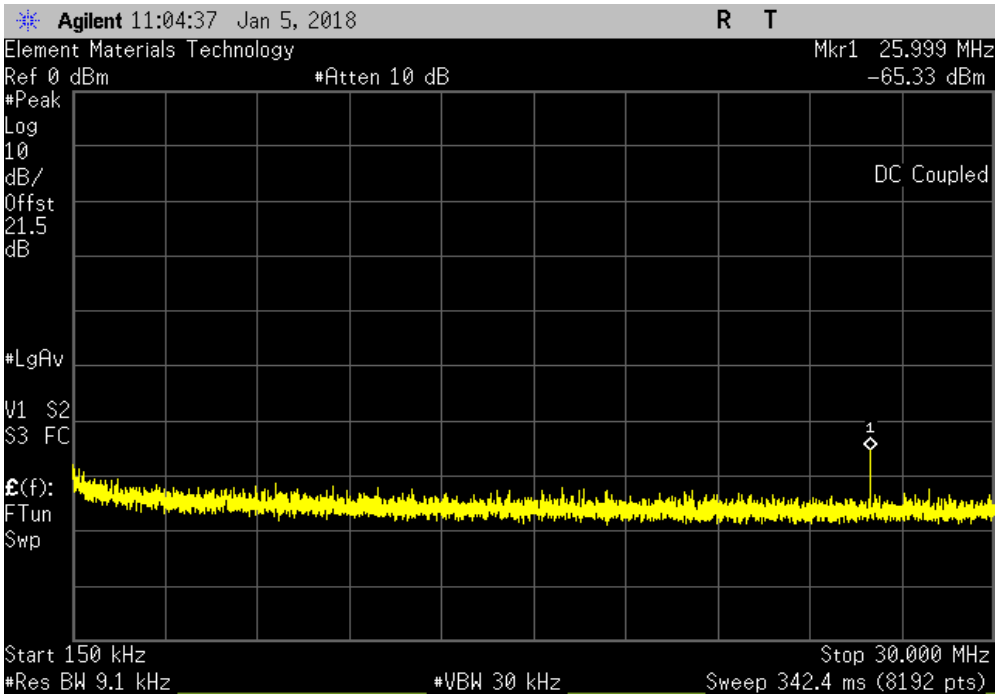
| Configuration # | 6 | Signature |
|---|---|---|

| | Frequency Range | Max Value (dBc) | Limit A (dBc) | Result |
|---|---|---|---|---|
| MEDS Low Band, Mid Channel, 401.55 MHz | 9 kHz - 150 kHz | -77.43 | N/A | N/A |
| MEDS Low Band, Mid Channel, 401.55 MHz | 150 kHz - 30 MHz | -65.33 | N/A | N/A |
| MEDS Low Band, Mid Channel, 401.55 MHz | 30 MHz - 1 GHz | -53.99 | N/A | N/A |
| MEDS Low Band, Mid Channel, 401.55 MHz | 1 GHz - 5 GHz | -41.96 | N/A | N/A |
| | | | | |
| MEDS High Band, Mid Channel, 405.55 MHz | 9 kHz - 150 kHz | -78.37 | N/A | N/A |
| MEDS High Band, Mid Channel, 405.55 MHz | 150 kHz - 30 MHz | -65.76 | N/A | N/A |
| MEDS High Band, Mid Channel, 405.55 MHz | 30 MHz - 1 GHz | -53.74 | N/A | N/A |
| MEDS High Band, Mid Channel, 405.55 MHz | 1 GHz - 5 GHz | -41.04 | N/A | N/A |

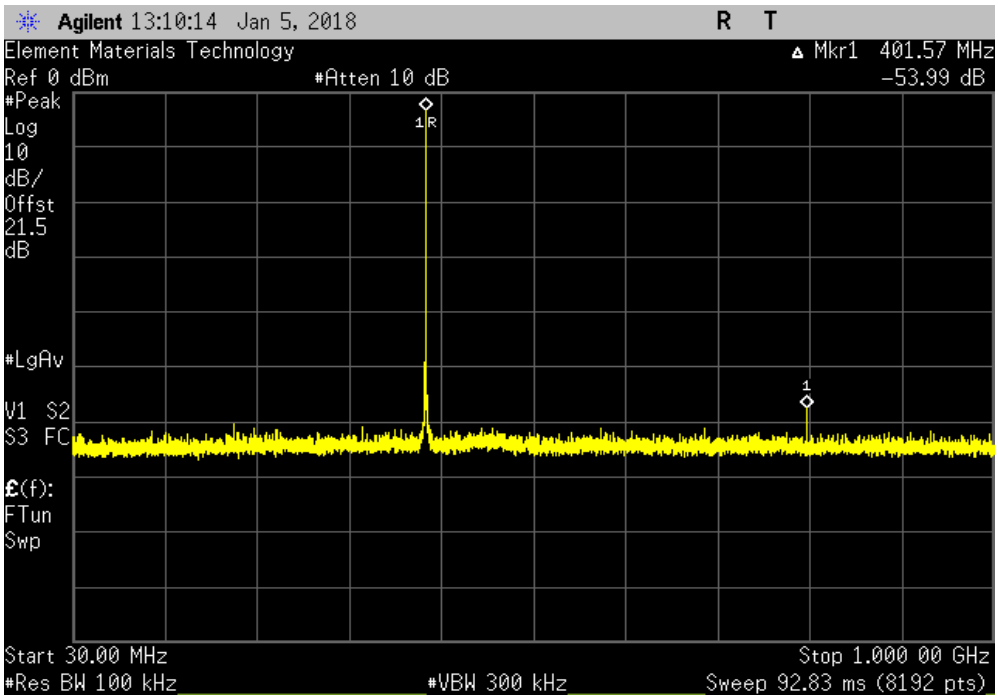
| MEDS Low Band, Mid Channel, 401.55 MHz | | | | |
|---|---|---|---|---|
| **Frequency Range** | | **Max Value (dBc)** | **Limit A (dBc)** | **Result** |
| 9 kHz - 150 kHz | | -77.43 | N/A | N/A |



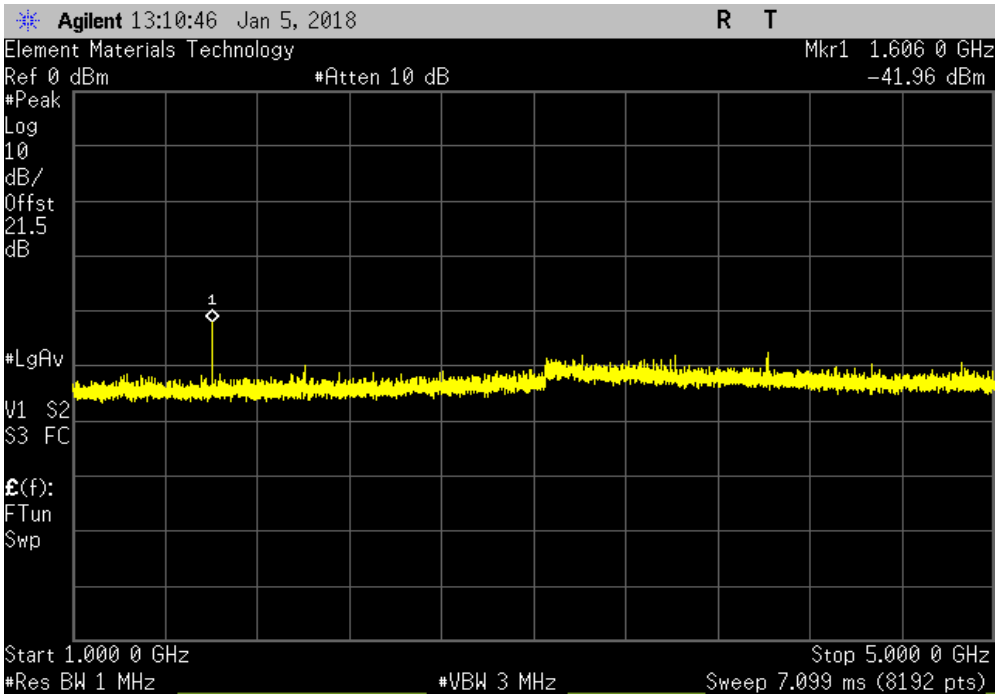

| MEDS Low Band, Mid Channel, 401.55 MHz | | | | |
|---|---|---|---|---|
| **Frequency Range** | | **Max Value (dBc)** | **Limit A (dBc)** | **Result** |
| 150 kHz - 30 MHz | | -65.33 | N/A | N/A |



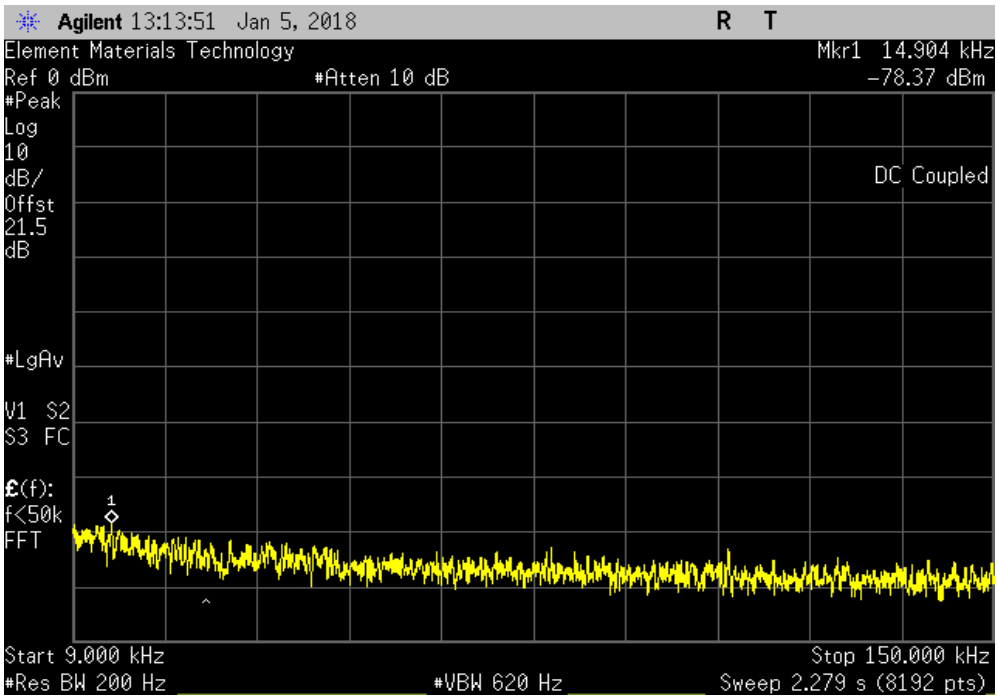
| MEDS Low Band, Mid Channel, 401.55 MHz | | | | |
|---|---|---|---|---|
| **Frequency Range** | | **Max Value (dBc)** | **Limit A (dBc)** | **Result** |
| 30 MHz - 1 GHz | | -53.99 | N/A | N/A |



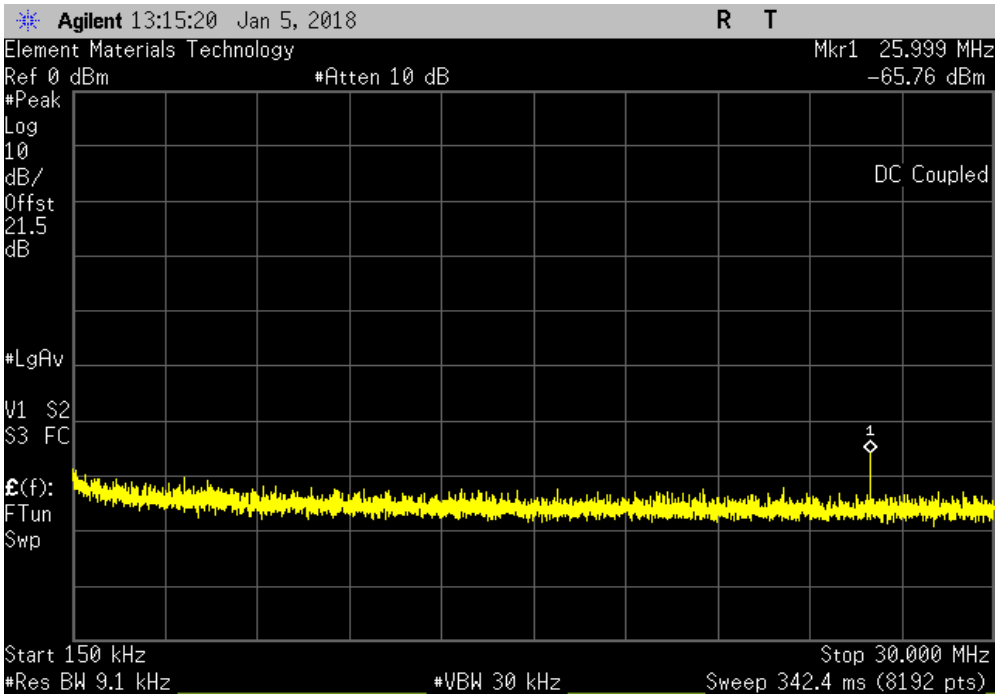

| MEDS Low Band, Mid Channel, 401.55 MHz | | | | |
|---|---|---|---|---|
| **Frequency Range** | | **Max Value (dBc)** | **Limit A (dBc)** | **Result** |
| 1 GHz - 5 GHz | | -41.96 | N/A | N/A |



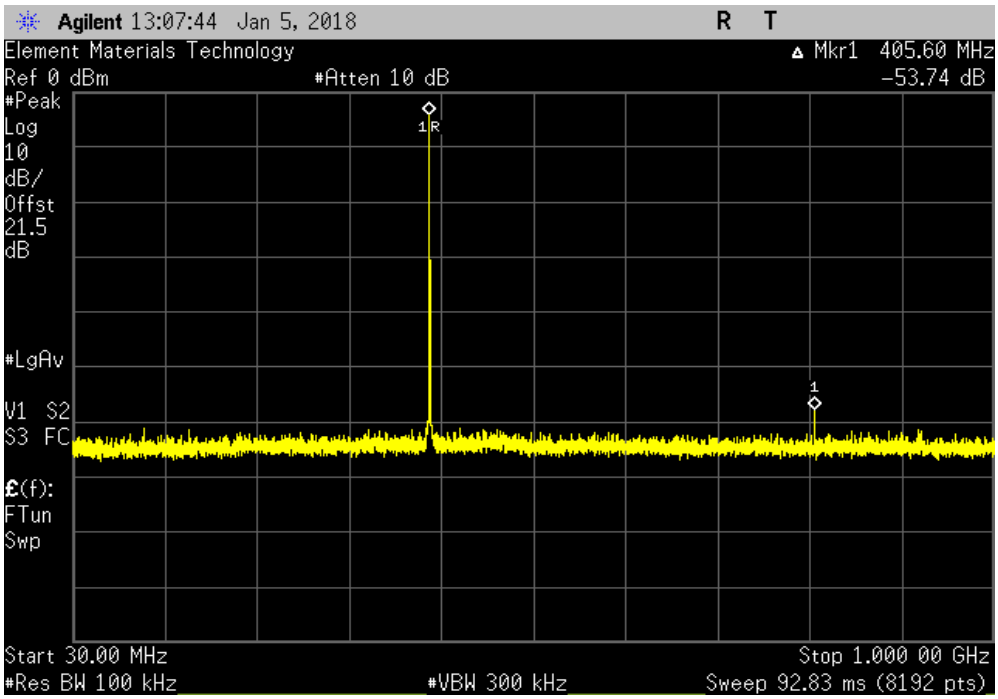
| MEDS High Band, Mid Channel, 405.55 MHz | | | | |
|---|---|---|---|---|
| **Frequency Range** | | **Max Value (dBc)** | **Limit A (dBc)** | **Result** |
| 9 kHz - 150 kHz | | -78.37 | N/A | N/A |



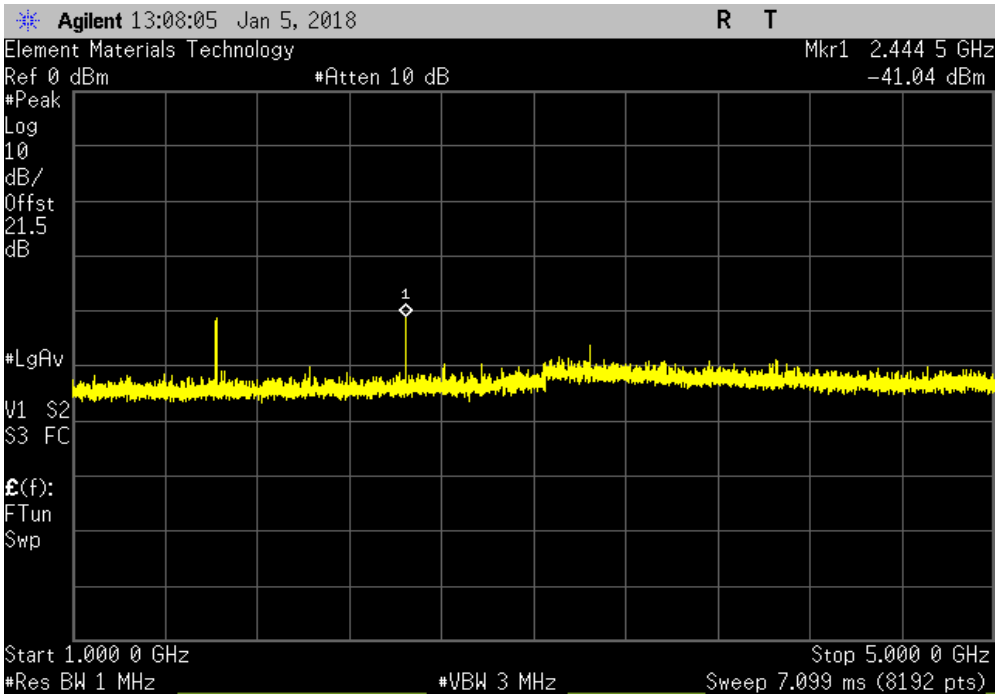

| MEDS High Band, Mid Channel, 405.55 MHz | | | | |
|---|---|---|---|---|
| **Frequency Range** | | **Max Value (dBc)** | **Limit A (dBc)** | **Result** |
| 150 kHz - 30 MHz | | -65.76 | N/A | N/A |



| MEDS High Band, Mid Channel, 405.55 MHz | | | | |
|---|---|---|---|---|
| **Frequency Range** | | **Max Value (dBc)** | **Limit A (dBc)** | **Result** |
| 30 MHz - 1 GHz | | -53.74 | N/A | N/A |




| MEDS High Band, Mid Channel, 405.55 MHz | | | | |
|---|---|---|---|---|
| **Frequency Range** | | **Max Value (dBc)** | **Limit A (dBc)** | **Result** |
| 1 GHz - 5 GHz | | -41.04 | N/A | N/A |



# RADIATED POWER (EIRP)

PSA-ESCI 2017.09.18

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**

Continuously Transmitting at Mid Ch - MEDS Low Band = 401.55 MHz & Mid Ch - MEDS High Band = 405.55 MHz

**POWER SETTINGS INVESTIGATED**

Battery

**CONFIGURATIONS INVESTIGATED**

AXON0105 - 4

AXON0105 - 5

**FREQUENCY RANGE INVESTIGATED**

| Start Frequency | 401 MHz | Stop Frequency | 406 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 |
|---|---|---|---|---|---|
| Power Sensor | Agilent | E4412A | SQE | 26-Jan-2017 | 12 mo |
| Meter - Power | Hewlett Packard | E4418A | SPA | 26-Jan-2017 | 12 mo |
| Cable | Fairview Microwave | SCA1814-0505-72 | OC2 | 15-May-2017 | 12 mo |
| Generator - Signal | Agilent | E8257D | TGU | 5-Feb-2015 | 36 mo |
| Antenna - Dipole | A.H. Systems, Inc. | FCC-4 | ADCA | NCR | 0 mo |
| Cable | Northwest EMC | 10kHz-1GHz RE Cables | OCH | 1-Aug-2017 | 12 mo |
| Antenna - Biconilog | Teseq | CBL 6141A | AYE | 7-Nov-2017 | 24 mo |
| Analyzer - Spectrum Analyzer | Agilent | E4446A | AAY | 21-Nov-2017 | 12 mo |

**TEST DESCRIPTION**

Per 95.2567(b)(1), the maximum radiated field strength for a MEDS transmitter is 25uW EIRP. The Field Strength of the Fundamental data was converted to EIRP with the formula based upon the Friis transmission equation with 6 dB removed due to reflections from the ground plane: EIRP = ((E/2)*d)^2/30 where E is V/m and d = distance = 3m, and EIRP = W (Reference 95.2569(a)).

The Field Strength of the Fundamental was measured in the far-field at an FCC Listed Semi-anechoic Chamber. Spectrum analyzer and linearly polarized antennas were used to measure the radiated field strength of the fundamental.

The orientation of the EUT and measurement antenna were manipulated to maximize the level of emissions. The turntable azimuth was varied to maximize the level of radiated emissions. The height of the measurement antenna was also varied from 1 to 4 meters. The amplitude and frequency of the emissions were noted.

The EUT was configured to transmit in a fixture that simulates the human torso. The dimensions of the test fixture and the characteristics of the tissue substitute material met the requirements 95.2569(c) and FCC KDB 617965. The height of the transmitter was 1.5-meter above the reference ground plane.

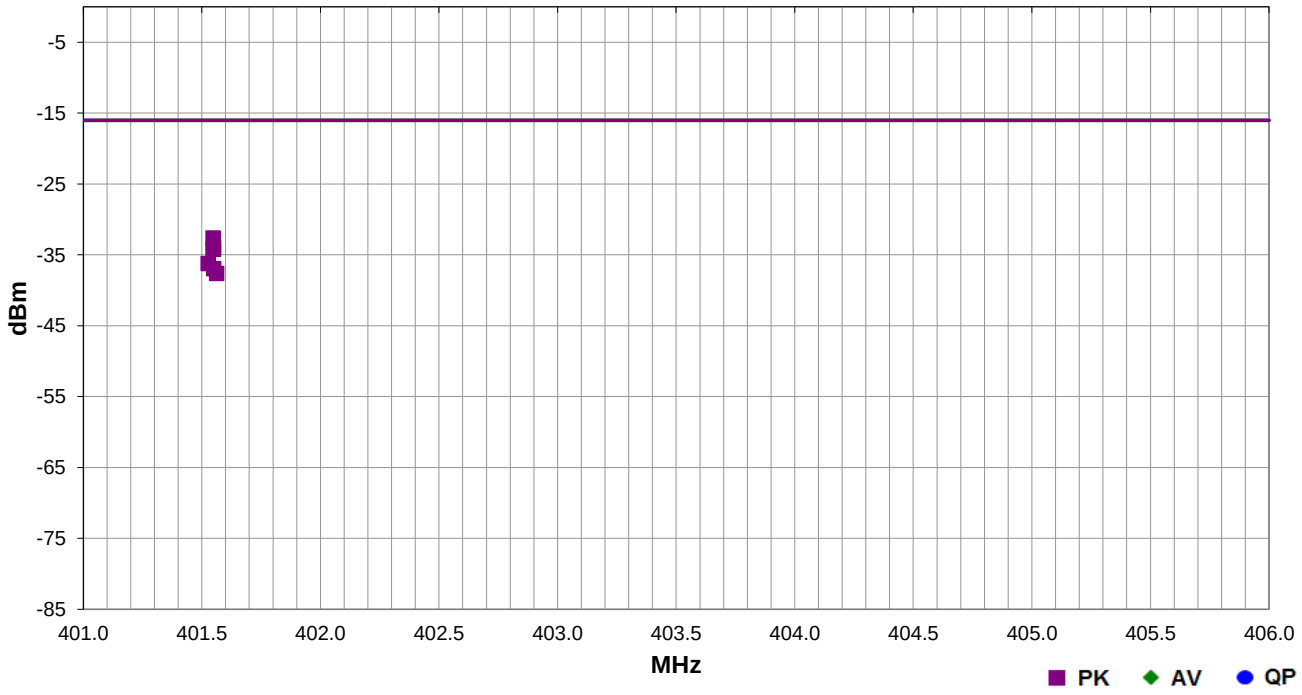
# RADIATED POWER (EIRP)

EmiR5 2017.09.18.2 PSA-ESCI 2017.09.18

| | | | | | |
|---|---|---|---|---|---|
| **Work Order:** | AXON0105 | **Date:** | 3-Jan-2018 | | |
| **Project:** | None | **Temperature:** | 19.5 °C | | |
| **Job Site:** | OC10 | **Humidity:** | 52.3% RH | | |
| **Serial Number:** | AE1GC70009 | **Barometric Pres.:** | 1020 mbar | **Tested by:** | Johnny Candelas |
| **EUT:** | External Pulse Generator (EPG) Model 1601 | | | | |
| **Configuration:** | 4 | | | | |
| **Customer:** | Axonics Modulation Technologies, Inc. | | | | |
| **Attendees:** | Franklin Portillo | | | | |
| **EUT Power:** | Battery | | | | |
| **Operating Mode:** | Continuously Transmitting at Mid Ch - MEDS Low Band = 401.55 MHz & Mid Ch - MEDS High Band = 405.55 MHz | | | | |
| **Deviations:** | None | | | | |
| **Comments:** | Tined lead. EUT Vertical. Power Index = 40<br>X-Axis = EUT White Face Out, Y-Axis = EUT Grey Face Out, & Z-Axis = Grey Face Out turned 90° so top is facing out | | | | |

| **Test Specifications** | **Test Method** |
|---|---|
| FCC 95I:2018 | ANSI C63.26:2015 |

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




| | Freq (MHz) | Antenna Height (meters) | Azimuth (degrees) | Polarity/ Transducer Type | Detector | EIRP (Watts) | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| | 401.547 | 2.3 | 139.0 | Horz | PK | 5.46E-07 | -32.6 | -16.0 | -16.6 | Low 401.55 MHz, EUT Y-Axis |
| | 401.550 | 1.7 | 80.0 | Vert | PK | 3.95E-07 | -34.0 | -16.0 | -18.0 | Low 401.55 MHz, EUT Z-Axis |
| | 401.547 | 1.6 | 327.0 | Vert | PK | 3.78E-07 | -34.2 | -16.0 | -18.2 | Low 401.55 MHz, EUT Y-Axis |
| | 401.526 | 2.6 | 81.0 | Horz | PK | 2.38E-07 | -36.2 | -16.0 | -20.2 | Low 401.55 MHz, EUT X-Axis |
| | 401.550 | 2.6 | 347.0 | Horz | PK | 2.03E-07 | -36.9 | -16.0 | -20.9 | Low 401.55 MHz, EUT Z-Axis |
| | 401.562 | 1.5 | 318.0 | Vert | PK | 1.73E-07 | -37.6 | -16.0 | -21.6 | Low 401.55 MHz, EUT X-Axis |

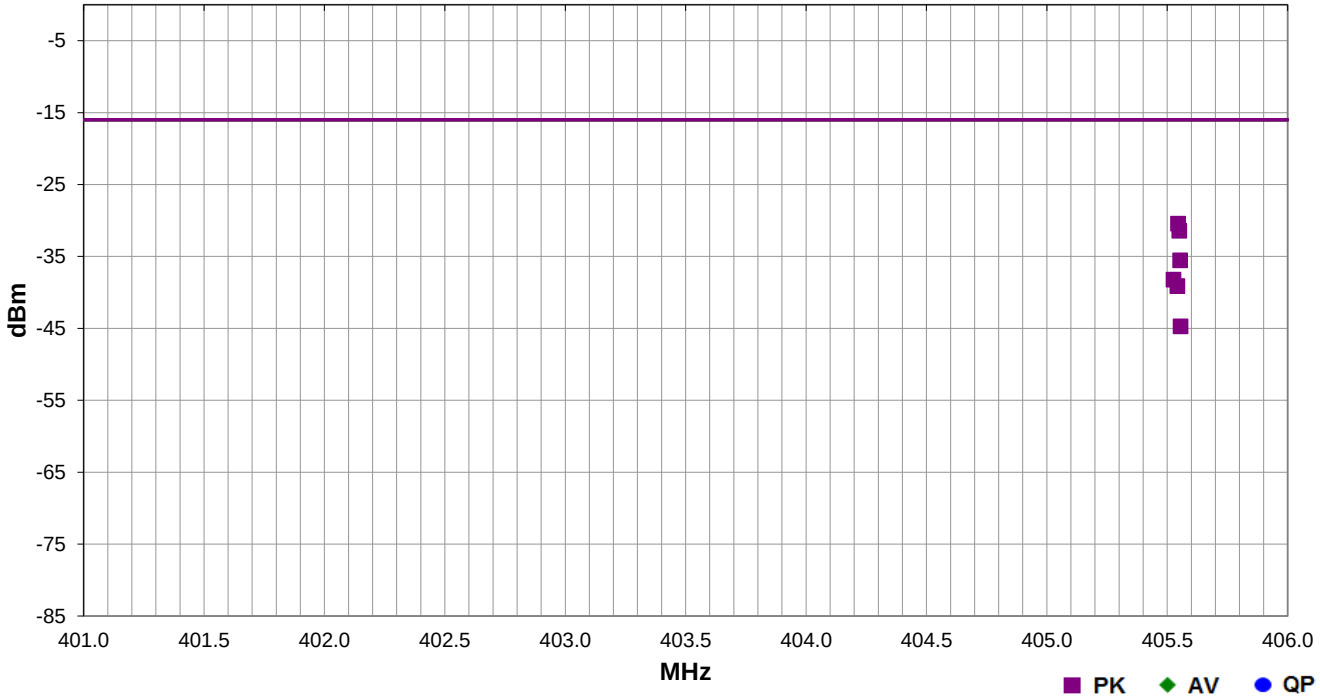
# RADIATED POWER (EIRP)

EmiR5 2017.09.18.2 PSA-ESCI 2017.09.18

| | | | | | |
|---|---|---|---|---|---|
| **Work Order:** | AXON0105 | **Date:** | 3-Jan-2018 | | |
| **Project:** | None | **Temperature:** | 19.5 °C | | |
| **Job Site:** | OC10 | **Humidity:** | 52.3% RH | | |
| **Serial Number:** | AE1GC70009 | **Barometric Pres.:** | 1020 mbar | **Tested by:** | Johnny Candelas |
| **EUT:** | External Pulse Generator (EPG) Model 1601 | | | | |
| **Configuration:** | 5 | | | | |
| **Customer:** | Axonics Modulation Technologies, Inc. | | | | |
| **Attendees:** | Franklin Portillo | | | | |
| **EUT Power:** | Battery | | | | |
| **Operating Mode:** | Continuously Transmitting at Mid Ch - MEDS Low Band = 401.55 MHz & Mid Ch - MEDS High Band = 405.55 MHz | | | | |
| **Deviations:** | None | | | | |
| **Comments:** | PNE lead. EUT Vertical. Power Index = 40<br>X-Axis = EUT White Face Out, Y-Axis = EUT Grey Face Out, & Z-Axis = Grey Face Out turned 90° so top is facing out | | | | |

| **Test Specifications** | **Test Method** |
|---|---|
| FCC 95I:2018 | ANSI C63.26:2015 |

| **Run #** | 8 | **Test Distance (m)** | 3 | **Antenna Height(s)** | 1 to 4(m) | **Results** | Pass |
|---|---|---|---|---|---|---|---|




| | Freq (MHz) | Antenna Height (meters) | Azimuth (degrees) | Polarity/ Transducer Type | Detector | EIRP (Watts) | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| | 405.545 | 1.6 | 21.0 | Vert | PK | 9.06E-07 | -30.4 | -16.0 | -14.4 | High 405.55 MHz, EUT X-Axis |
| | 405.550 | 1.7 | 59.0 | Vert | PK | 7.20E-07 | -31.4 | -16.0 | -15.4 | High 405.55 MHz, EUT Z-Axis |
| | 405.553 | 1.7 | 76.0 | Vert | PK | 2.80E-07 | -35.5 | -16.0 | -19.5 | High 405.55 MHz, EUT Y-Axis |
| | 405.526 | 1.8 | 334.0 | Horz | PK | 1.50E-07 | -38.2 | -16.0 | -22.2 | High 405.55 MHz, EUT Z-Axis |
| | 405.542 | 2.5 | 47.0 | Horz | PK | 1.22E-07 | -39.1 | -16.0 | -23.1 | High 405.55 MHz, EUT X-Axis |
| | 405.555 | 1.5 | 237.0 | Horz | PK | 3.37E-08 | -44.7 | -16.0 | -28.7 | High 405.55 MHz, EUT Y-Axis |