



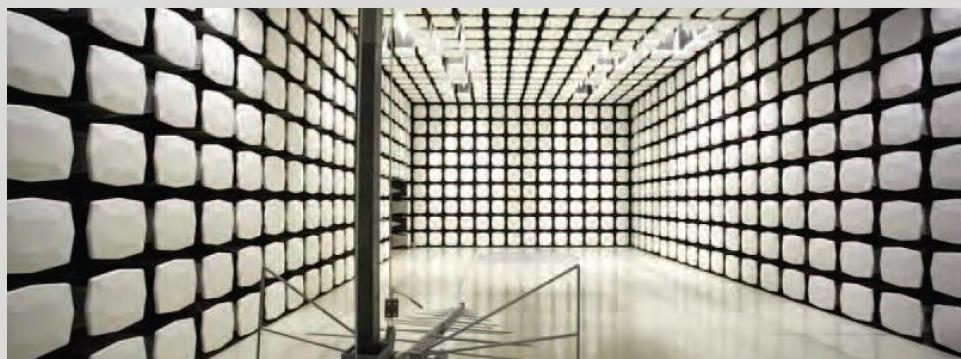
Starkey Laboratories, Inc.

TruLink Remote Model 600

FCC 15.247:2017

Bluetooth Low Energy Radio

Report # STAK0086.1



NVLAP Lab Code: 200881-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America. This Report shall not be reproduced, except in full without written approval of the laboratory.



CERTIFICATE OF TEST

Last Date of Test: March 21, 2017
Starkey Laboratories, Inc.
Model: TruLink Remote Model 600

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. |
| 11.6 | 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 | |
| 11.12.1, 11.13.2, 6.5, 6.6 | Spurious Radiated Emissions | Yes | Pass | |

Deviations From Test Standards

None

Approved By:

A handwritten signature in blue ink, appearing to read 'Dean Ghizzone'.

Dean Ghizzone, General 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



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

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:

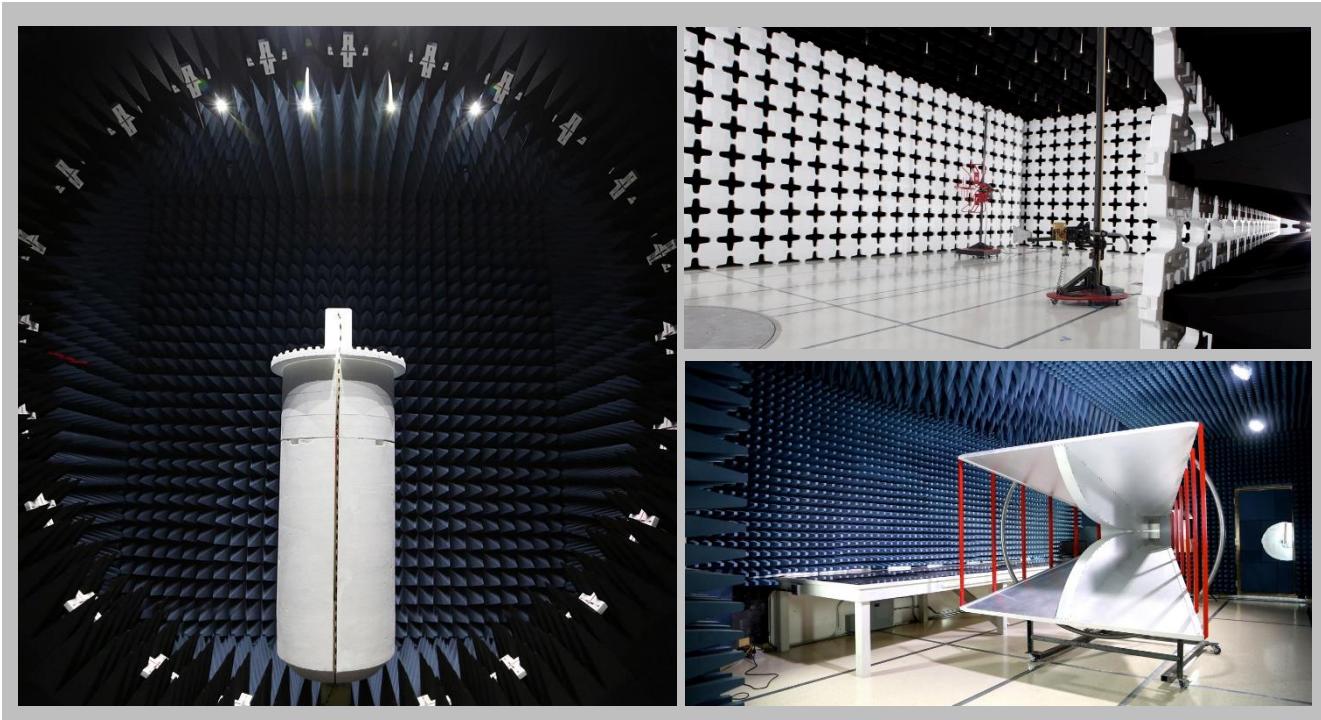
<http://portlandcustomer.element.com/ts/scope/scope.htm>

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

FACILITIES



| | | | | | |
|---|---|--|---|--|---|
| California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918 | Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136 | New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214 | Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066 | Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255 | Washington Labs NC01-05 19201 120 th Ave NE Bothell, WA 98011 (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 | 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



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 WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. 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.

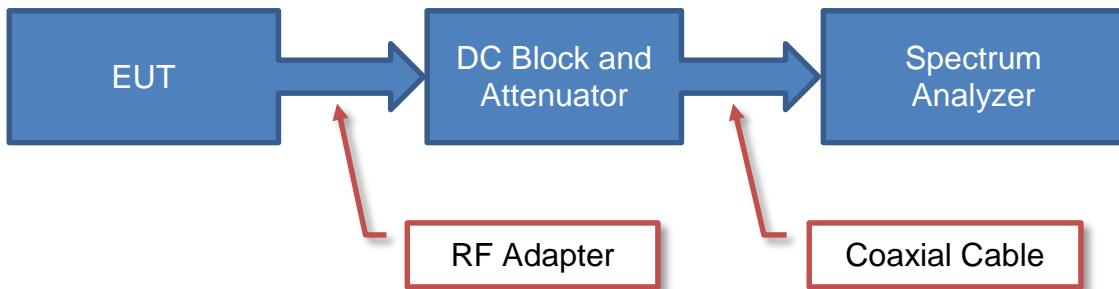
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

| 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 |

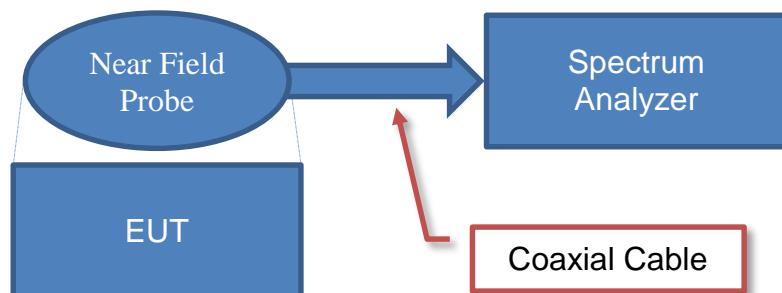
]

Test Setup Block Diagrams

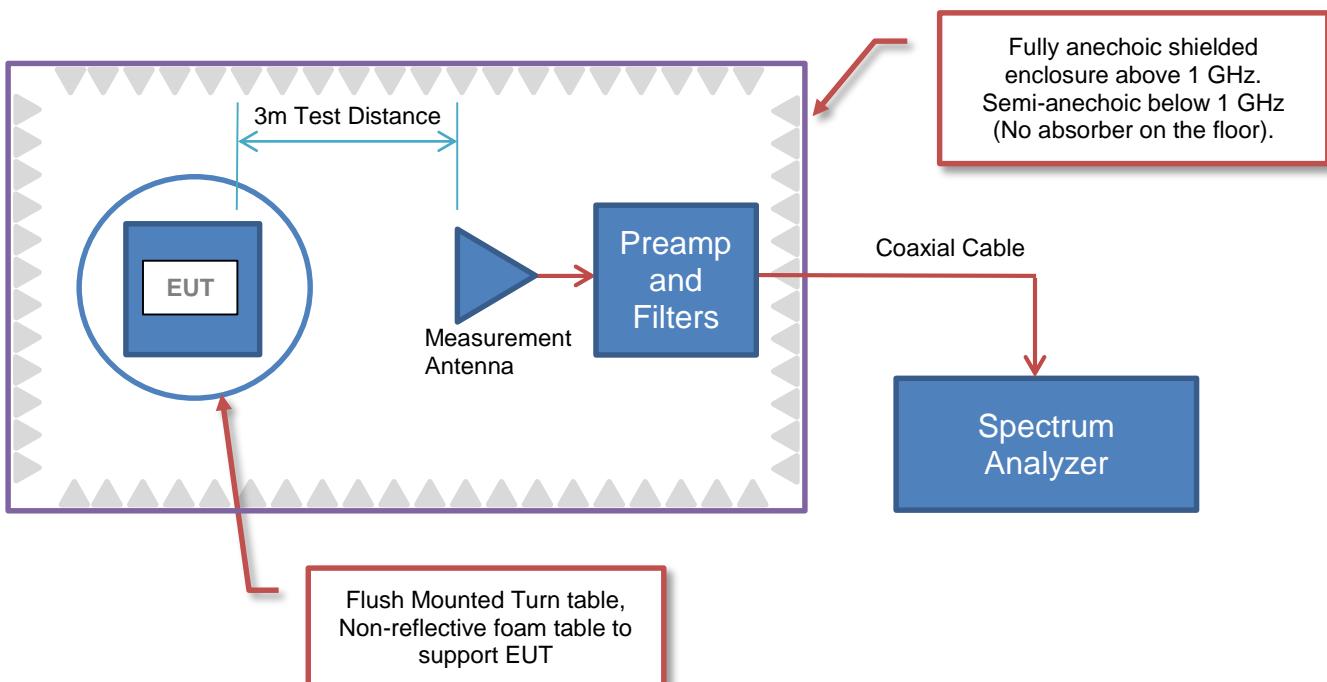
Antenna Port Conducted Measurements



Near Field Test Fixture Measurements



Spurious Radiated Emissions



PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

| | |
|---------------------------------|----------------------------|
| Company Name: | Starkey Laboratories, Inc. |
| Address: | 6600 Washington Ave. SO. |
| City, State, Zip: | Eden Prairie, MN 55344 |
| Test Requested By: | Bill Mitchell |
| Model: | TruLink Remote Model 600 |
| First Date of Test: | March 16, 2017 |
| Last Date of Test: | March 21, 2017 |
| Receipt Date of Samples: | March 13, 2017 |
| 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 TruLink Remote operates in the 2.4 - 2.4835 GHz band and uses the Bluetooth® Low Energy protocol to communicate with the hearing aids. The remote is paired with the hearing aid using the Bluetooth Low Energy protocol. The remote can be paired with either a left or a right hearing aid or both a left and a right binaural pair of hearing aids.

Testing Objective:

To demonstrate compliance of the Bluetooth Low Energy radio to FCC 15.247 requirements.

CONFIGURATIONS



Configuration STAK0086- 2

| Software/Firmware Running during test | |
|---|-------------------|
| Description | Version |
| Firmware Direct_Test_Mode_PCA10040_S132 | pca10040_s132.hex |

| EUT | | | |
|--------------------------|----------------------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| TruLink Remote Model 600 | Starkey Laboratories, Inc. | 60019-002 | N170742842 |

Configuration STAK0086- 3

| Software/Firmware Running during test | |
|---|-------------------|
| Description | Version |
| Firmware Direct_Test_Mode_PCA10040_S132 | pca10040_s132.hex |

| EUT | | | |
|--------------------------|----------------------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| TruLink Remote Model 600 | Starkey Laboratories, Inc. | 60019-002 | N170742842 |

| Cables | | | | | |
|--------------------------------|--------|------------|---------|--------------------------|--------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| Power Cable for Conducted Unit | No | 0.9m | No | TruLink Remote Model 600 | TQK |

MODIFICATIONS



2017-1-25

Equipment Modifications

| Item | Date | Test | Modification | Note | Disposition of EUT |
|------|-----------|------------------------------|--------------------------------------|---|---|
| 1 | 3/16/2017 | 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. |
| 2 | 3/16/2017 | 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. |
| 3 | 3/16/2017 | 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. |
| 4 | 3/16/2017 | 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. |
| 5 | 3/16/2017 | 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. |
| 6 | 3/17/2017 | 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. |
| 7 | 3/21/2017 | Spurious Radiated Emissions | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed. |

DUTY CYCLE



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 |
|------------------------------|----------------------|-----------------|-----|------------|------------|
| Meter - Multimeter | Fluke | 114 | MMU | 6/30/2014 | 6/30/2017 |
| Power Supply - DC | EZ Digital Co., Ltd. | GP-4030D | TQK | NCR | NCR |
| Generator - Signal | Agilent | N5183A | TIK | 10/17/2014 | 10/17/2017 |
| Block - DC | Fairview Microwave | SD3379 | AMI | 9/15/2016 | 9/15/2017 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Cable | ESM Cable Corp. | TTBJ141 KMKM-72 | MNU | 9/15/2016 | 9/15/2017 |
| Analyzer - Spectrum Analyzer | Agilent | N9010A | AFI | 1/6/2017 | 1/6/2018 |

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. For transmitters which are not operated at a continuous transmission of 100% duty cycle, a duty cycle correction must be measured and calculated to add to the data taken in other tests in this report.

The observed duty cycle is expressed in terms of a percentage and is calculated as:

$$\text{Duty Cycle} = (\text{Tx on} / (\text{Tx on} + \text{Tx off}))$$

For adding into the calculations required in the specific tests the observed duty cycle is converted to a value in dB as follows:

$$\text{Duty Cycle Correction} = 10 \log (1 / \text{Duty Cycle})$$

The observed duty cycle was measured for each data rate(s) listed on the datasheet.

DUTY CYCLE



TbTx 2017.01.27

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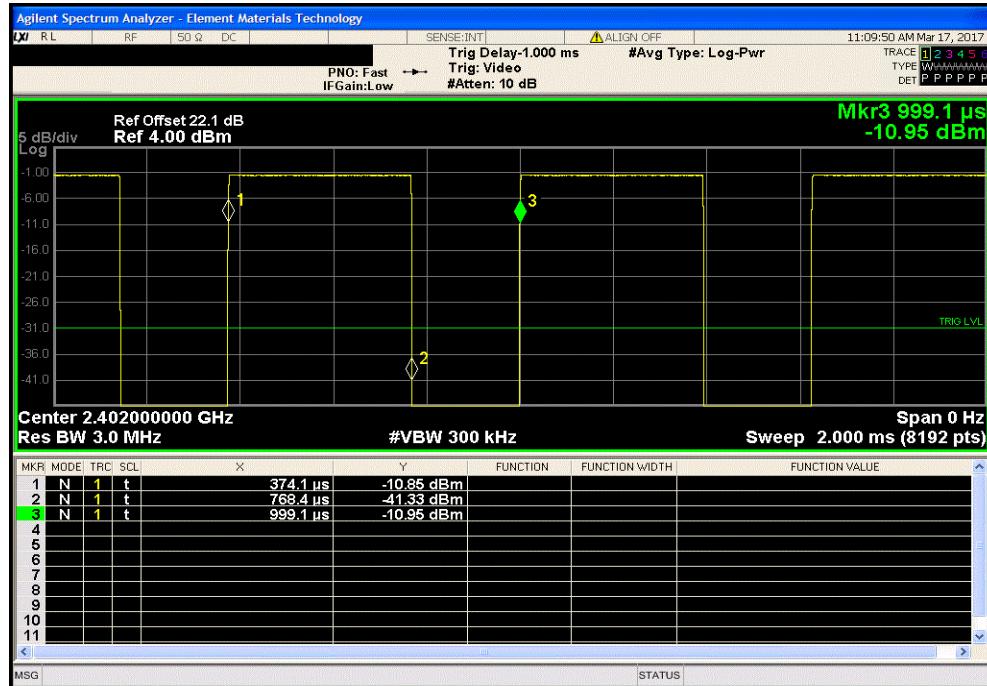
| EUT: | TruLink Remote Model 600 | Work Order: | STAK0086 | | | | |
|---------------------------------|----------------------------|-------------------|--------------------|------------------|-----------|-----------|---------|
| Serial Number: | N170742842 | Date: | 03/17/17 | | | | |
| Customer: | Starkey Laboratories, Inc. | Temperature: | 21.8 °C | | | | |
| Attendees: | Charlie Esch | Humidity: | 24.5% RH | | | | |
| Project: | None | Barometric Pres.: | 1016 mbar | | | | |
| Tested by: | Trevor Buis, Kyle McMullan | Power: | 3VDC | | | | |
| TEST SPECIFICATIONS | | Test Method | ANSI C63.10:2013 | | | | |
| FCC 15.247:2017 | | | | | | | |
| COMMENTS | None | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | |
| None | | | | | | | |
| Configuration # | 3 | Signature | <i>Trevor Buis</i> | | | | |
| | | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| Normal Voltage | | | | | | | |
| BLE/GFSK Low Channel, 2402 MHz | | 394.3 us | 625 us | 1 | 63.1 | N/A | N/A |
| BLE/GFSK Low Channel, 2402 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| BLE/GFSK Mid Channel, 2440 MHz | | 394.3 us | 625.1 us | 1 | 63.1 | N/A | N/A |
| BLE/GFSK Mid Channel, 2440 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| BLE/GFSK High Channel, 2480 MHz | | 394.1 us | 625.1 us | 1 | 63 | N/A | N/A |
| BLE/GFSK High Channel, 2480 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |

DUTY CYCLE

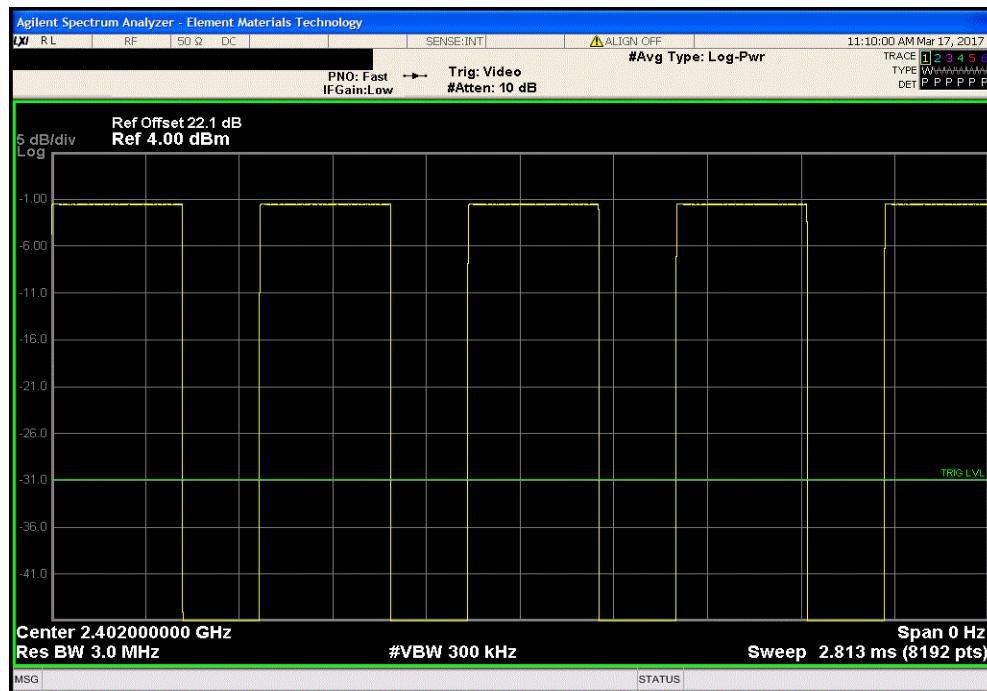


TbTx 2017.01.27 XMII 2017.01.26

| Normal Voltage, BLE/GFSK Low Channel, 2402 MHz | | | | | | |
|--|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 394.3 us | 625 us | 1 | 63.1 | N/A | N/A |



| Normal Voltage, 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 |

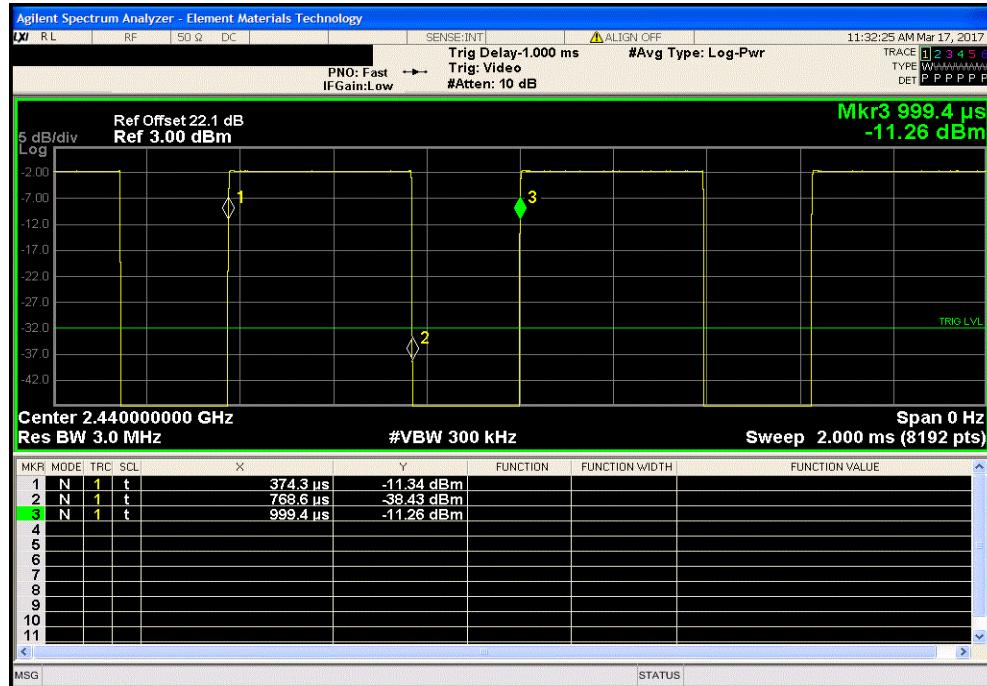


DUTY CYCLE

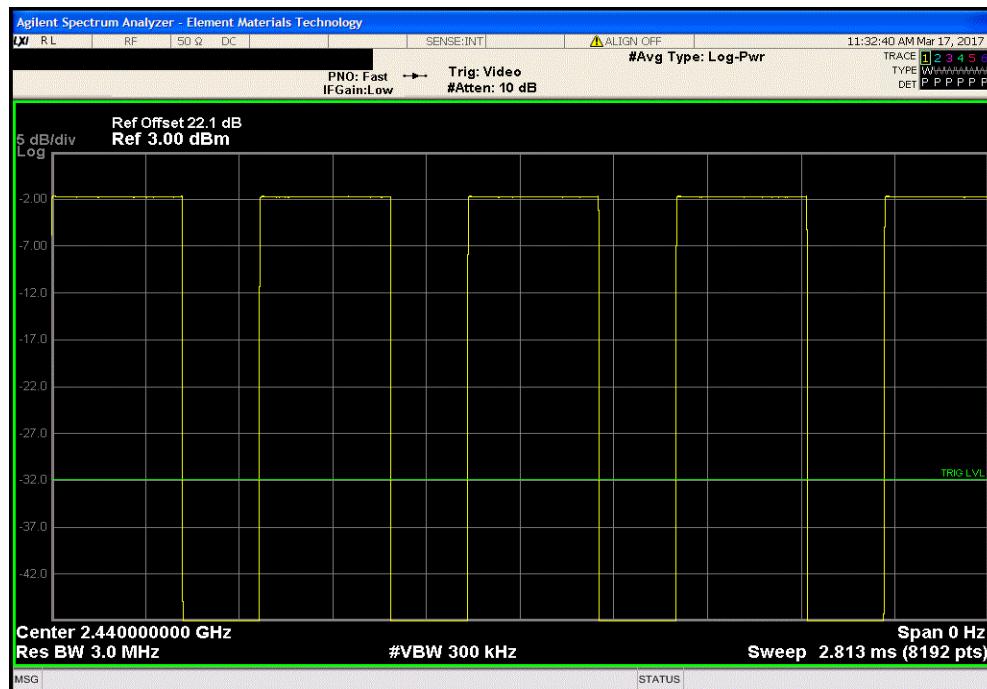


TbTx 2017.01.27 XMII 2017.01.26

| Normal Voltage, BLE/GFSK Mid Channel, 2440 MHz | | | | | |
|--|----------|------------------|-----------|-----------|---------|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| 394.3 us | 625.1 us | 1 | 63.1 | N/A | N/A |



| Normal Voltage, BLE/GFSK Mid Channel, 2440 MHz | | | | | |
|--|--------|------------------|-----------|-----------|---------|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| N/A | N/A | 5 | N/A | N/A | N/A |

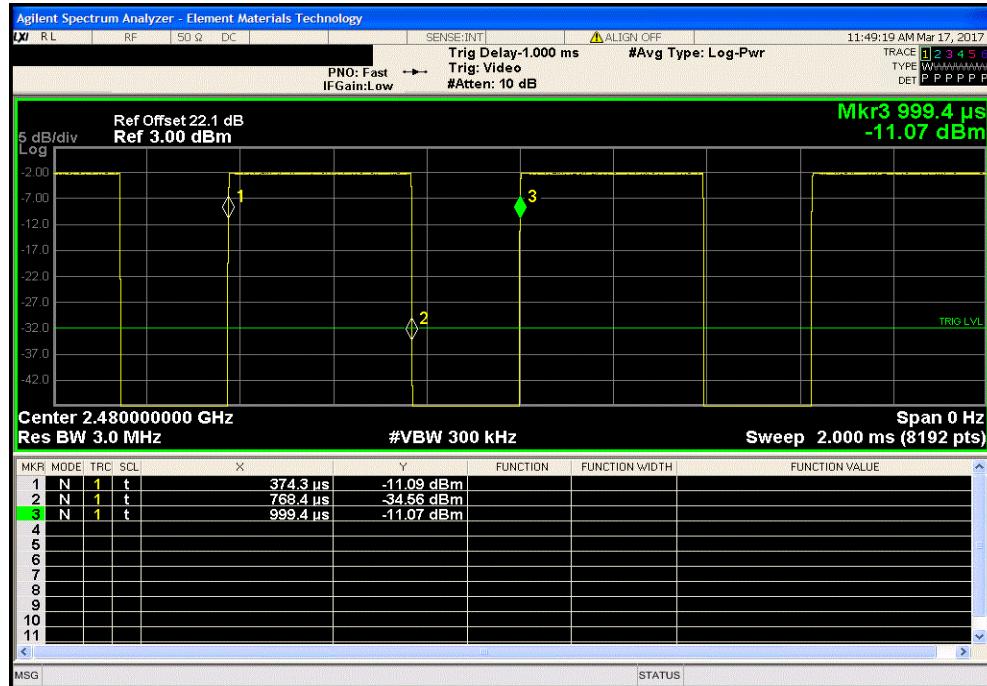


DUTY CYCLE

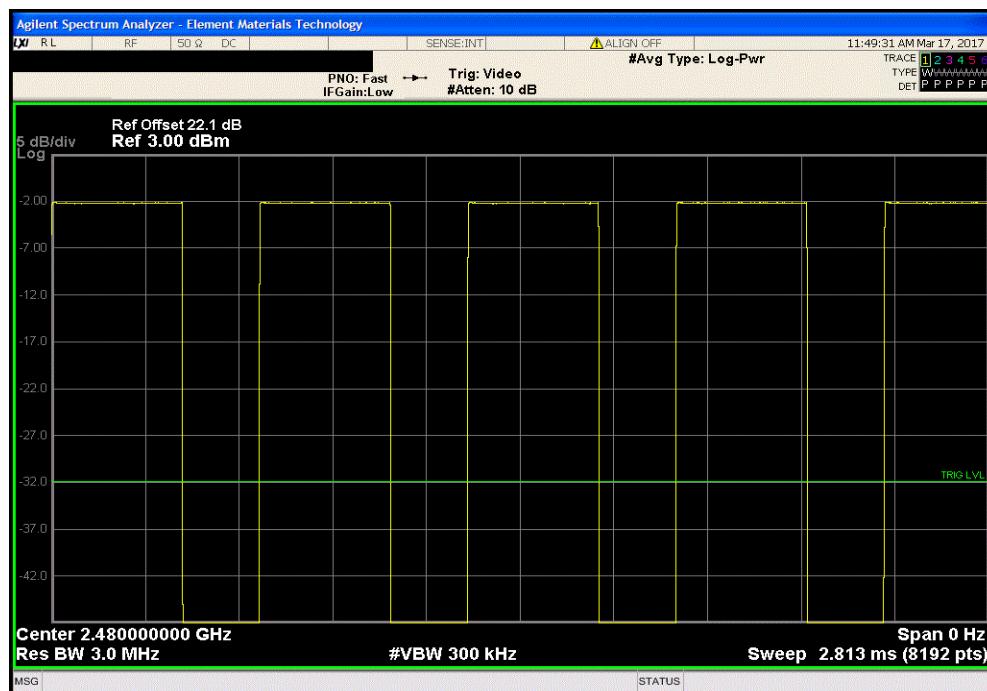


TbTx 2017.01.27 XMII 2017.01.26

| Normal Voltage, BLE/GFSK High Channel, 2480 MHz | | | | | |
|---|----------|------------------|-----------|-----------|---------|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| 394.1 us | 625.1 us | 1 | 63 | N/A | N/A |



| Normal Voltage, 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 |
|------------------------------|----------------------|-----------------|-----|------------|------------|
| Meter - Multimeter | Fluke | 114 | MMU | 6/30/2014 | 6/30/2017 |
| Generator - Signal | Agilent | N5183A | TIK | 10/17/2014 | 10/17/2017 |
| Power Supply - DC | EZ Digital Co., Ltd. | GP-4030D | TQK | NCR | NCR |
| Cable | ESM Cable Corp. | TTBJ141 KMKM-72 | MNU | 9/15/2016 | 9/15/2017 |
| Block - DC | Fairview Microwave | SD3379 | AMI | 9/15/2016 | 9/15/2017 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Analyzer - Spectrum Analyzer | Agilent | N9010A | AFI | 1/6/2017 | 1/6/2018 |

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



TbTx 2017.01.27

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| | | | | | |
|-------------------------------|----------------------------|-----------|-------------------|-----------|--------|
| EUT: | TruLink Remote Model 600 | | Work Order: | STAK0086 | |
| Serial Number: | N170742842 | | Date: | 03/16/17 | |
| Customer: | Starkey Laboratories, Inc. | | Temperature: | 21.4 °C | |
| Attendees: | Charlie Esch | | Humidity: | 16.9% RH | |
| Project: | None | | Barometric Pres.: | 1024 mbar | |
| Tested by: | Trevor Buis, Kyle McMullan | Power: | 3VDC | Job Site: | MN08 |
| TEST SPECIFICATIONS | | | Test Method | | |
| FCC 15.247:2017 | | | ANSI C63.10:2013 | | |
| COMMENTS | | | | | |
| None | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | |
| None | | | | | |
| Configuration # | 3 | Signature | Trevor Buis | | |
| | | | Value | Limit (±) | Result |
| | | | 695.007 kHz | 500 kHz | Pass |
| | | | 686.267 kHz | 500 kHz | Pass |
| | | | 697.114 kHz | 500 kHz | Pass |

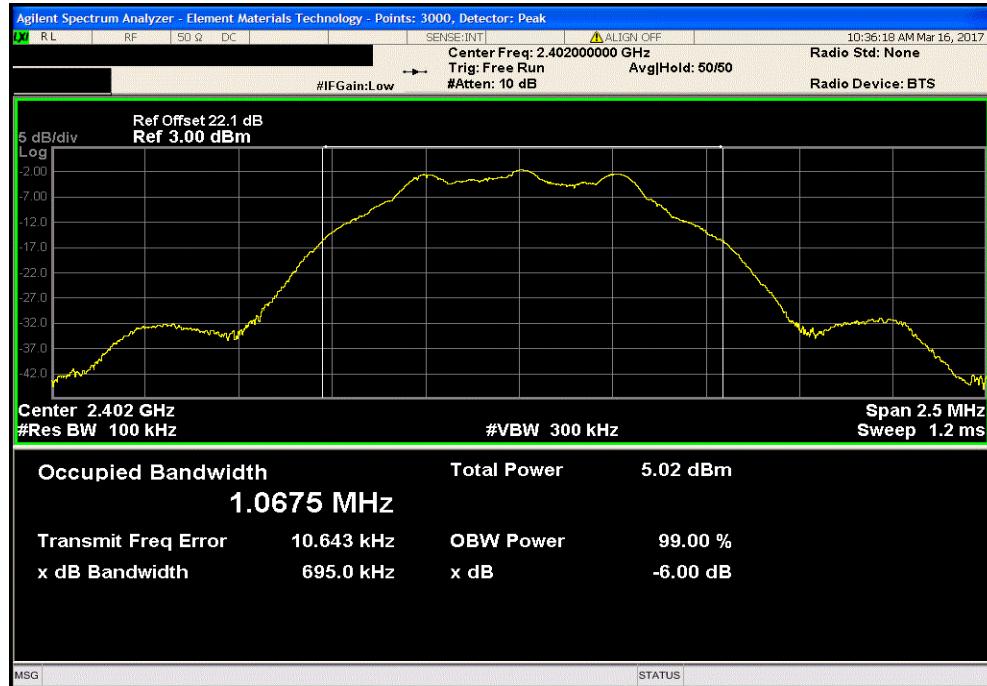
BLE/GFSK Low Channel, 2402 MHz
 BLE/GFSK Mid Channel, 2440 MHz
 BLE/GFSK High Channel, 2480 MHz

OCCUPIED BANDWIDTH

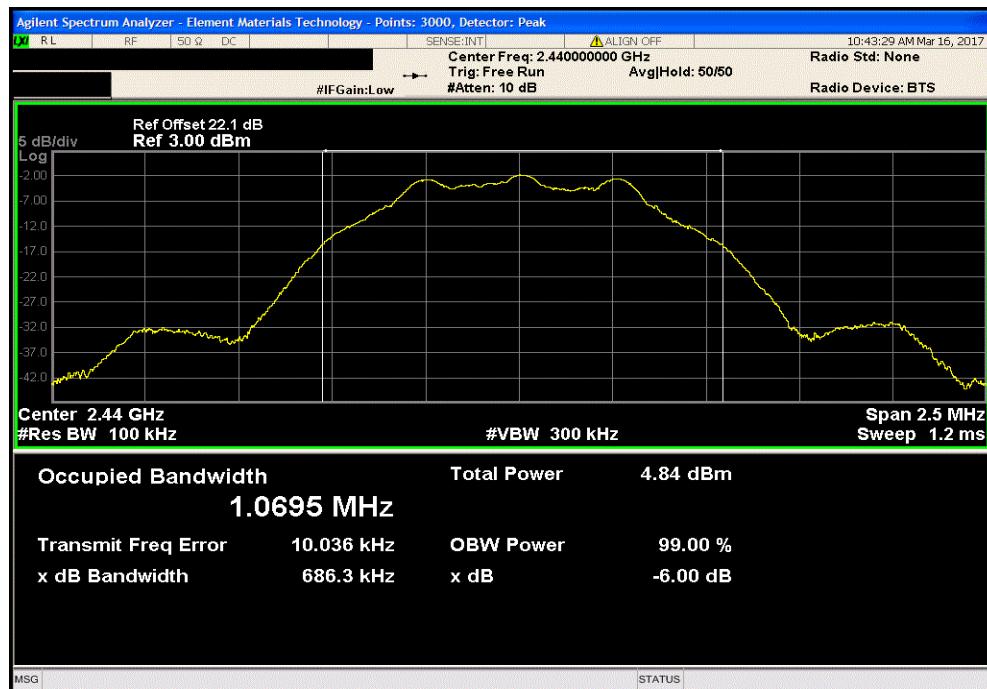


TbTx 2017.01.27 XMII 2017.01.26

| BLE/GFSK Low Channel, 2402 MHz | | | Value | Limit (≥) | Result |
|--------------------------------|--|--|-------------|-----------|--------|
| | | | 695.007 kHz | 500 kHz | Pass |



| BLE/GFSK Mid Channel, 2440 MHz | | | Value | Limit (≥) | Result |
|--------------------------------|--|--|-------------|-----------|--------|
| | | | 686.267 kHz | 500 kHz | Pass |



OCCUPIED BANDWIDTH



TbTx 2017.01.27 XMII 2017.01.26



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 |
|------------------------------|----------------------|-----------------|-----|------------|------------|
| Power Supply - DC | EZ Digital Co., Ltd. | GP-4030D | TQK | NCR | NCR |
| Meter - Multimeter | Fluke | 114 | MMU | 6/30/2014 | 6/30/2017 |
| Generator - Signal | Agilent | N5183A | TIK | 10/17/2014 | 10/17/2017 |
| Cable | ESM Cable Corp. | TTBJ141 KMKM-72 | MNU | 9/15/2016 | 9/15/2017 |
| Block - DC | Fairview Microwave | SD3379 | AMI | 9/15/2016 | 9/15/2017 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Analyzer - Spectrum Analyzer | Agilent | N9010A | AFI | 1/6/2017 | 1/6/2018 |

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



ThiTx 2017.01.27

XMI 2017.01.26

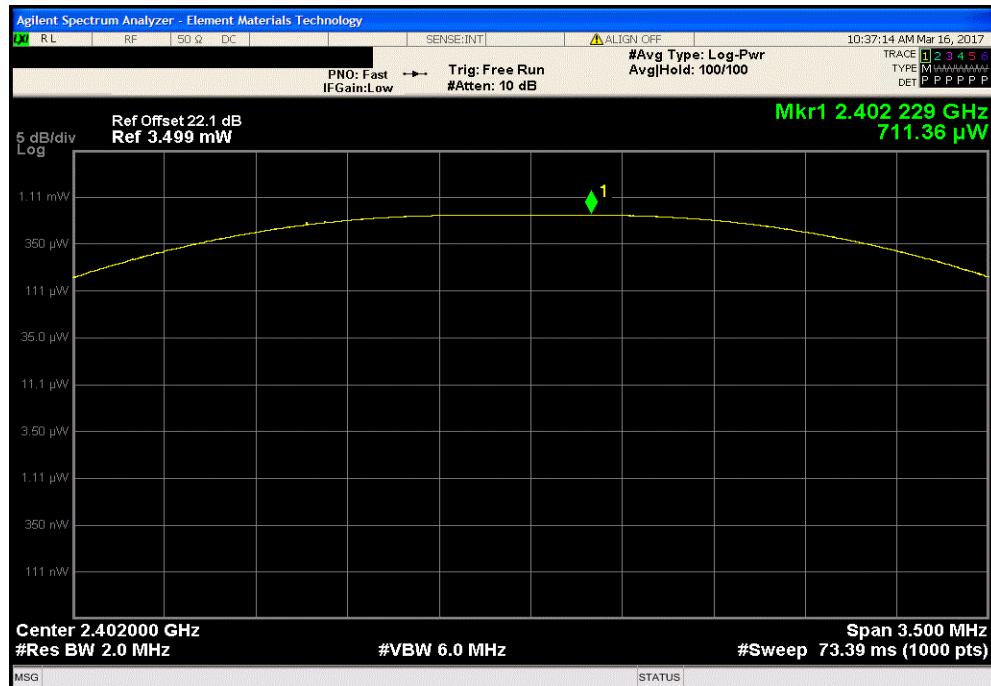
| | | | |
|---------------------------------------|-------------|-----------------------------|--------------|
| EUT: TruLink Remote Model 600 | | Work Order: STAK0086 | |
| Serial Number: N170742842 | | Date: 03/16/17 | |
| Customer: Starkey Laboratories, Inc. | | Temperature: 21.4 °C | |
| Attendees: Charlie Esch | | Humidity: 16.9% RH | |
| Project: None | | Barometric Pres.: 1024 mbar | |
| Tested by: Trevor Buls, Kyle McMullan | Power: 3VDC | Job Site: MN08 | |
| TEST SPECIFICATIONS | | | |
| FCC 15.247:2017 | | Test Method | |
| | | ANSI C63.10:2013 | |
| COMMENTS | | | |
| None | | | |
| DEVIATIONS FROM TEST STANDARD | | | |
| None | | | |
| Configuration # | 3 | Signature | Trevor Buls |
| | | | Limit (<) |
| BLE/GFSK Low Channel, 2402 MHz | | | Value |
| BLE/GFSK Mid Channel, 2440 MHz | | | 711.36 μW |
| BLE/GFSK High Channel, 2480 MHz | | | 680.36 μW |
| | | | 1 W |
| | | | Pass |
| | | | 621.14 μW |
| | | | 1 W |
| | | | Pass |

OUTPUT POWER



TbTx 2017.01.27 XMII 2017.01.26

| BLE/GFSK Low Channel, 2402 MHz | | | Value | Limit (≤) | Result |
|--------------------------------|--|--|-----------|-----------|--------|
| | | | 711.36 uW | 1 W | Pass |



| BLE/GFSK Mid Channel, 2440 MHz | | | Value | Limit (≤) | Result |
|--------------------------------|--|--|-----------|-----------|--------|
| | | | 680.36 uW | 1 W | Pass |

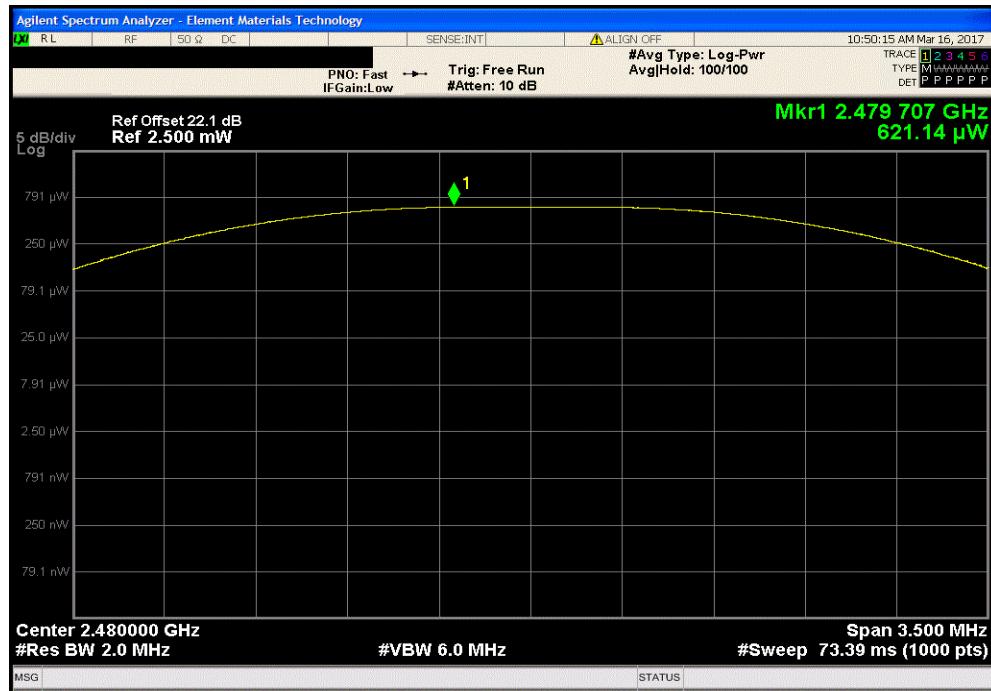


OUTPUT POWER



TbTx 2017.01.27 XMII 2017.01.26

| BLE/GFSK High Channel, 2480 MHz | | | Value | Limit (<) | Result |
|---------------------------------|--|--|-----------|-----------|--------|
| | | | 621.14 uW | 1 W | Pass |



POWER SPECTRAL DENSITY



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 |
|------------------------------|----------------------|-----------------|-----|------------|------------|
| Power Supply - DC | EZ Digital Co., Ltd. | GP-4030D | TQK | NCR | NCR |
| Meter - Multimeter | Fluke | 114 | MMU | 6/30/2014 | 6/30/2017 |
| Generator - Signal | Agilent | N5183A | TIK | 10/17/2014 | 10/17/2017 |
| Cable | ESM Cable Corp. | TTBJ141 KMKM-72 | MNU | 9/15/2016 | 9/15/2017 |
| Block - DC | Fairview Microwave | SD3379 | AMI | 9/15/2016 | 9/15/2017 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Analyzer - Spectrum Analyzer | Agilent | N9010A | AFI | 1/6/2017 | 1/6/2018 |

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



TbtTx 2017.01.27

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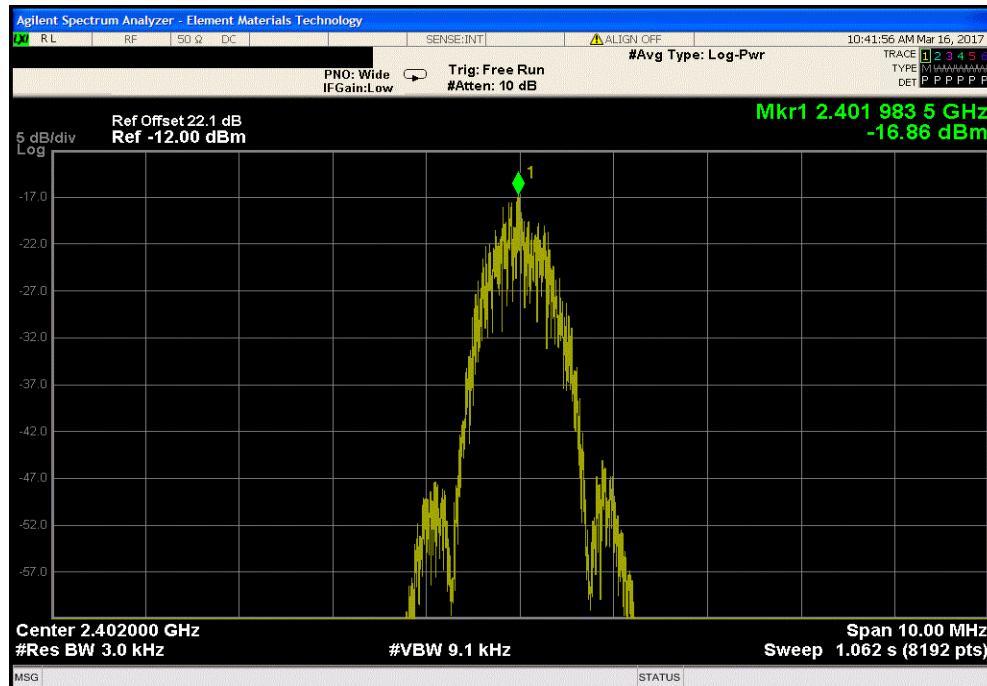
| EUT: TruLink Remote Model 600 | | Work Order: STAK0086 | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------------|-------------|-------|-------|--|----------|------------|---------|---------|---|------|---------|---|------|-------|---|------|
| Serial Number: N170742842 | | Date: 03/16/17 | | | | | | | | | | | | | | | | |
| Customer: Starkey Laboratories, Inc. | | Temperature: 21.4 °C | | | | | | | | | | | | | | | | |
| Attendees: Charlie Esch | | Humidity: 16.8% RH | | | | | | | | | | | | | | | | |
| Project: None | | Barometric Pres.: 1024 mbar | | | | | | | | | | | | | | | | |
| Tested by: Trevor Buls, Kyle McMullan | Power: 3VDC | Job Site: MN08 | | | | | | | | | | | | | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | | | | | | | | | |
| FCC 15.247:2017 | | Test Method | | | | | | | | | | | | | | | | |
| | | ANSI C63.10:2013 | | | | | | | | | | | | | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | | | | | | |
| Configuration # | 3 | Signature | Trevor Buls | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Value</th> <th>Limit</th> <th></th> </tr> <tr> <th>dBm/3kHz</th> <th>< dBm/3kHz</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>-16.859</td> <td>8</td> <td>Pass</td> </tr> <tr> <td>-17.038</td> <td>8</td> <td>Pass</td> </tr> <tr> <td>17.52</td> <td>9</td> <td>Pass</td> </tr> </tbody> </table> | | | | Value | Limit | | dBm/3kHz | < dBm/3kHz | Results | -16.859 | 8 | Pass | -17.038 | 8 | Pass | 17.52 | 9 | Pass |
| Value | Limit | | | | | | | | | | | | | | | | | |
| dBm/3kHz | < dBm/3kHz | Results | | | | | | | | | | | | | | | | |
| -16.859 | 8 | Pass | | | | | | | | | | | | | | | | |
| -17.038 | 8 | Pass | | | | | | | | | | | | | | | | |
| 17.52 | 9 | Pass | | | | | | | | | | | | | | | | |
| BLE/GFSK Low Channel, 2402 MHz | | | | | | | | | | | | | | | | | | |
| BLE/GFSK Mid Channel, 2440 MHz | | | | | | | | | | | | | | | | | | |
| BLE/GFSK High Channel, 2480 MHz | | | | | | | | | | | | | | | | | | |

POWER SPECTRAL DENSITY

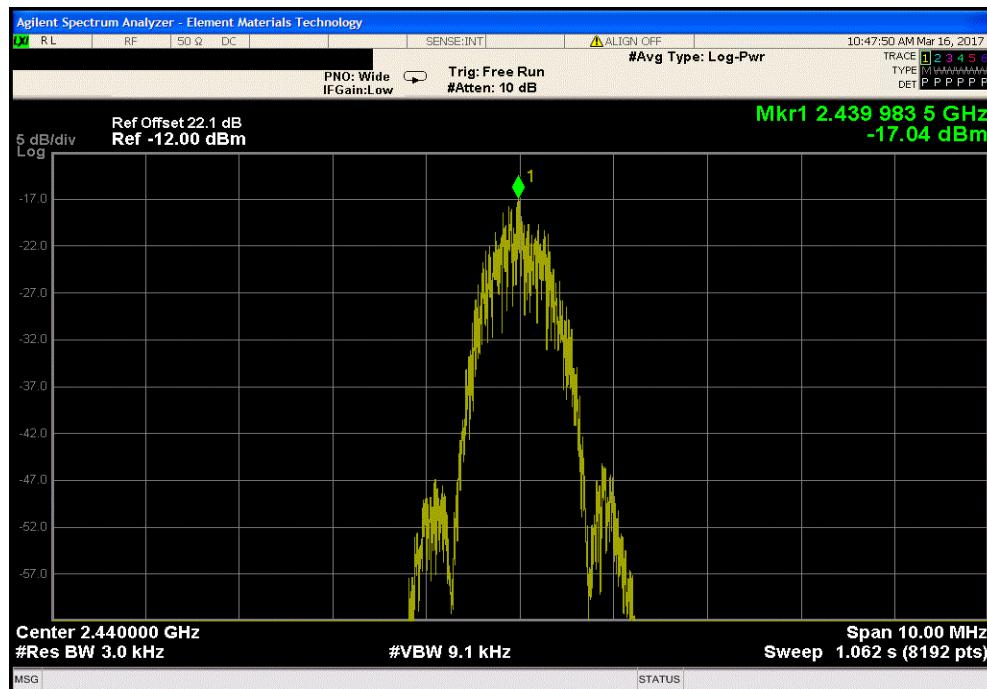


TbTx 2017.01.27 XMII 2017.01.26

| BLE/GFSK Low Channel, 2402 MHz | | | Value | Limit | Results |
|--------------------------------|----------|------------|-------|-------|---------|
| | dBm/3kHz | < dBm/3kHz | | | |
| | -16.859 | 8 | | | Pass |



| BLE/GFSK Mid Channel, 2440 MHz | | | Value | Limit | Results |
|--------------------------------|----------|------------|-------|-------|---------|
| | dBm/3kHz | < dBm/3kHz | | | |
| | -17.038 | 8 | | | Pass |

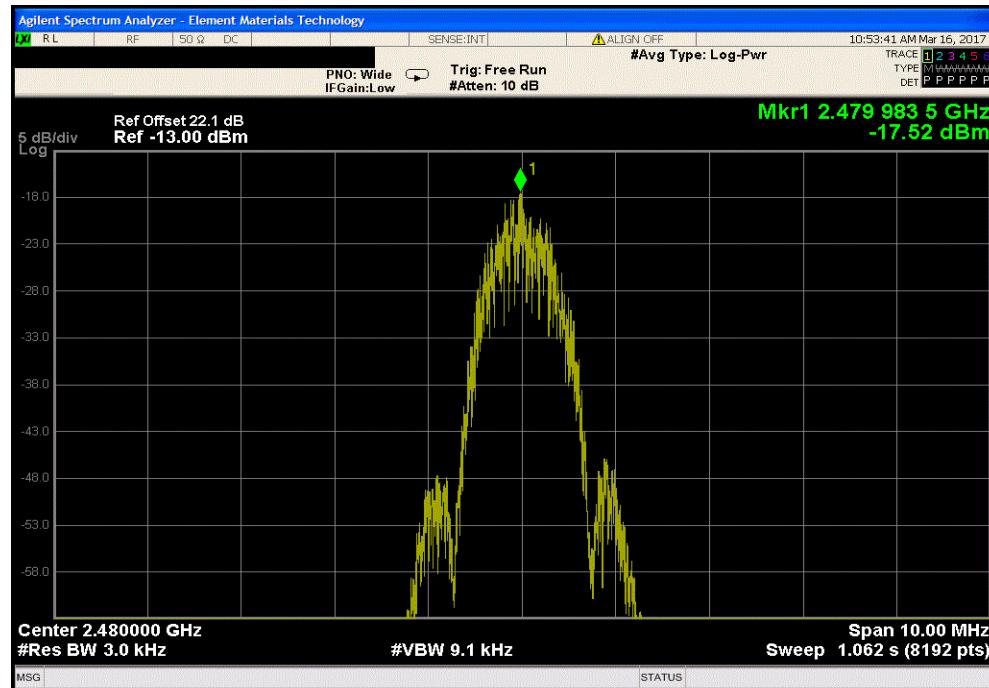


POWER SPECTRAL DENSITY



TbTx 2017.01.27 XMII 2017.01.26

| BLE/GFSK High Channel, 2480 MHz | | | | Value | Limit | Results |
|---------------------------------|--|--|--|----------|------------|---------|
| | | | | dBm/3kHz | < dBm/3kHz | |
| | | | | -17.52 | 8 | Pass |



BAND EDGE COMPLIANCE



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 | N5183A | TIK | 10/17/2014 | 10/17/2017 |
| Meter - Multimeter | Fluke | 114 | MMU | 6/30/2014 | 6/30/2017 |
| Power Supply - DC | EZ Digital Co., Ltd. | GP-4030D | TQK | NCR | NCR |
| Cable | ESM Cable Corp. | TTBJ141 KMKM-72 | MNU | 9/15/2016 | 9/15/2017 |
| Block - DC | Fairview Microwave | SD3379 | AMI | 9/15/2016 | 9/15/2017 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Analyzer - Spectrum Analyzer | Agilent | N9010A | AFI | 1/6/2017 | 1/6/2018 |

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.

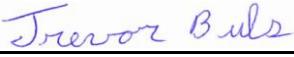
The spectrum was scanned below the lower band edge and above the higher band edge.

BAND EDGE COMPLIANCE



TbTx 2017.01.27

XMi 2017.01.26

| | | | | | |
|-------------------------------|----------------------------|-----------|---|------------------|--------|
| EUT: | TruLink Remote Model 600 | | Work Order: | STAK0086 | |
| Serial Number: | N170742842 | | Date: | 03/16/17 | |
| Customer: | Starkey Laboratories, Inc. | | Temperature: | 21.3 °C | |
| Attendees: | Charlie Esch | | Humidity: | 16.9% RH | |
| Project: | None | | Barometric Pres.: | 1024 mbar | |
| Tested by: | Trevor Buis, Kyle McMullan | Power: | 3VDC | Job Site: | MN08 |
| TEST SPECIFICATIONS | | | Test Method | | |
| FCC 15.247:2017 | | | ANSI C63.10:2013 | | |
| COMMENTS | | | | | |
| None | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | |
| None | | | | | |
| Configuration # | 3 | Signature |  | | |
| | | | Value (dBc) | Limit ≤ (dBc) | Result |
| | | | -47.7 | -20 | Pass |
| | | | -50.28 | -20 | Pass |

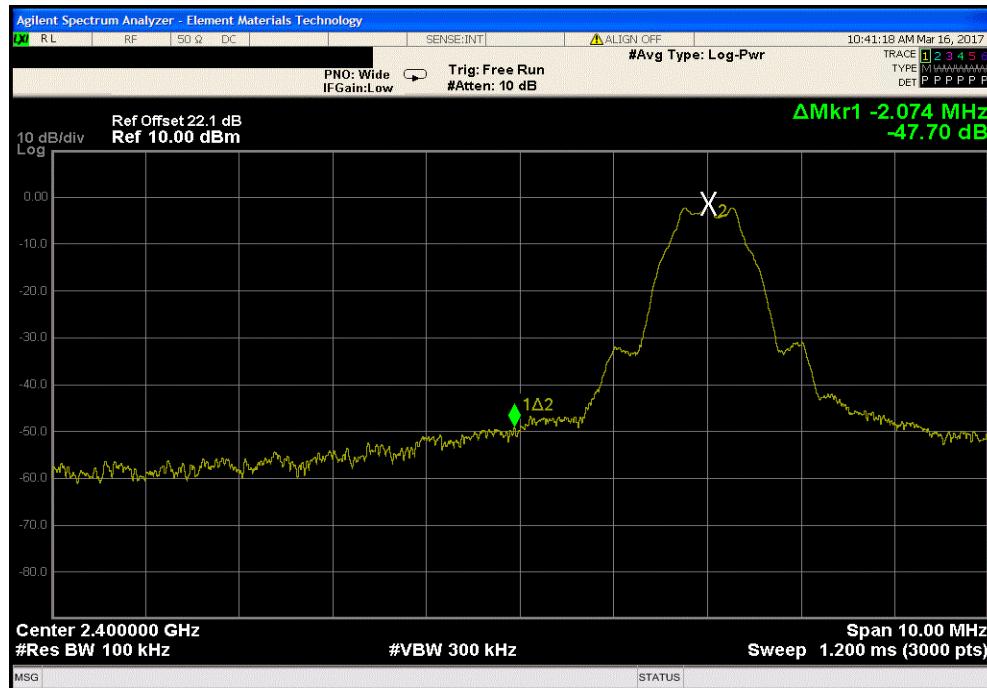
BLE/GFSK Low Channel, 2402 MHz
BLE/GFSK High Channel, 2480 MHz

BAND EDGE COMPLIANCE

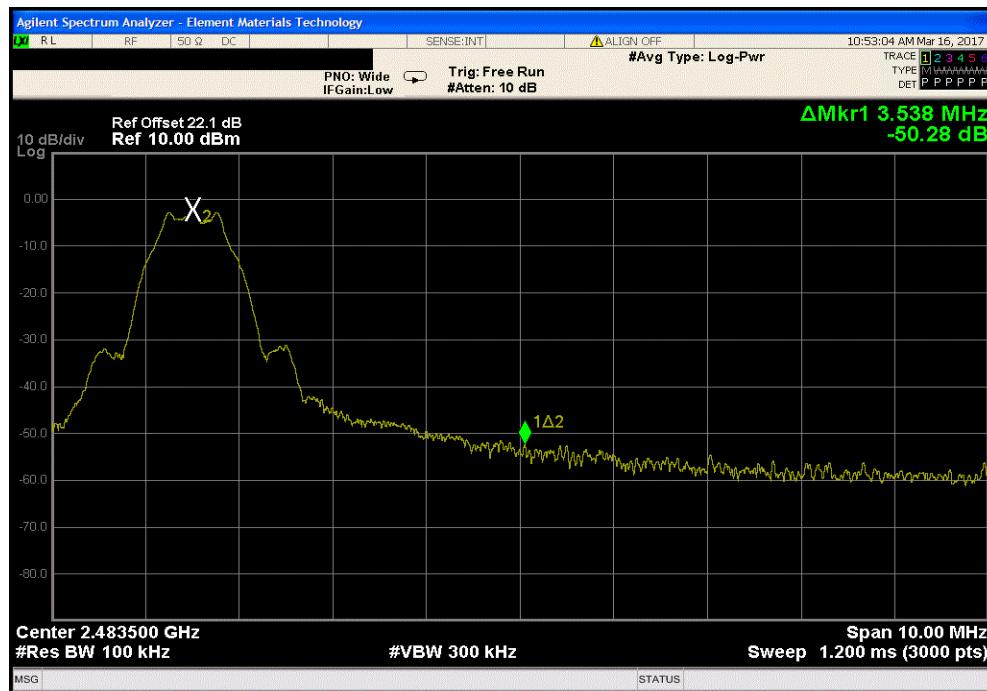


TbTx 2017.01.27 XMII 2017.01.26

| BLE/GFSK Low Channel, 2402 MHz | | |
|--------------------------------|------------------|--------|
| Value (dBc) | Limit ≤ (dBc) | Result |
| -47.7 | -20 | Pass |



| BLE/GFSK High Channel, 2480 MHz | | |
|---------------------------------|------------------|--------|
| Value (dBc) | Limit ≤ (dBc) | Result |
| -50.28 | -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 |
|------------------------------|----------------------|-----------------|-----|------------|------------|
| Power Supply - DC | EZ Digital Co., Ltd. | GP-4030D | TQK | NCR | NCR |
| Meter - Multimeter | Fluke | 114 | MMU | 6/30/2014 | 6/30/2017 |
| Generator - Signal | Agilent | N5183A | TIK | 10/17/2014 | 10/17/2017 |
| Cable | ESM Cable Corp. | TTBJ141 KMKM-72 | MNU | 9/15/2016 | 9/15/2017 |
| Block - DC | Fairview Microwave | SD3379 | AMI | 9/15/2016 | 9/15/2017 |
| Attenuator | S.M. Electronics | SA26B-20 | RFW | 2/14/2017 | 2/14/2018 |
| Analyzer - Spectrum Analyzer | Agilent | N9010A | AFI | 1/6/2017 | 1/6/2018 |

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



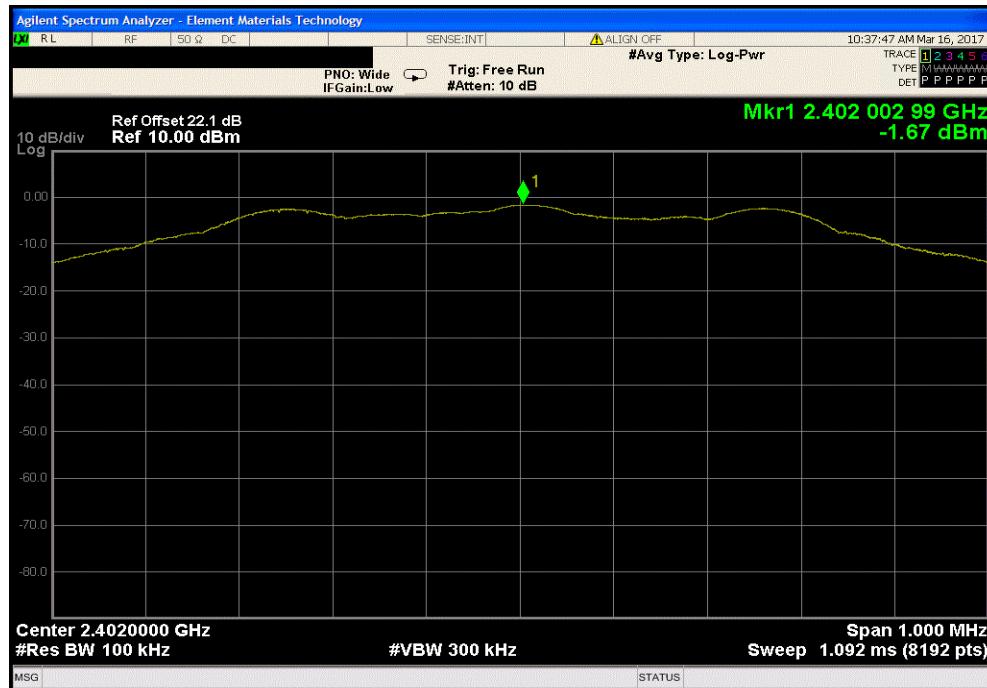
| EUT: TruLink Remote Model 600 | | Work Order: STAK0086 | | |
|---------------------------------------|-------------|-----------------------------|-----------------|-----|
| Serial Number: N170742842 | | Date: 03/16/17 | | |
| Customer: Starkey Laboratories, Inc. | | Temperature: 21.5 °C | | |
| Attendees: Charlie Esch | | Humidity: 16.8% RH | | |
| Project: None | | Barometric Pres.: 1024 mbar | | |
| Tested by: Trevor Buis, Kyle McMullan | Power: 3VDC | Job Site: MN08 | | |
| TEST SPECIFICATIONS | | Test Method | | |
| FCC 15.247:2017 | | ANSI C63.10:2013 | | |
| COMMENTS | | | | |
| None | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | |
| None | | | | |
| Configuration # | 3 | Signature | | |
| | | | | |
| | | Frequency Range | Max Value (dBc) | |
| | | Limit ≤ (dBc) | Result | |
| BLE/GFSK Low Channel, 2402 MHz | | Fundamental | N/A | N/A |
| BLE/GFSK Low Channel, 2402 MHz | | 30 MHz - 12.5 GHz | -50.99 | -20 |
| BLE/GFSK Low Channel, 2402 MHz | | 12.5 GHz - 25 GHz | -49.44 | -20 |
| BLE/GFSK Mid Channel, 2440 MHz | | Fundamental | N/A | N/A |
| BLE/GFSK Mid Channel, 2440 MHz | | 30 MHz - 12.5 GHz | -50.35 | -20 |
| BLE/GFSK Mid Channel, 2440 MHz | | 12.5 GHz - 25 GHz | -48.96 | -20 |
| BLE/GFSK High Channel, 2480 MHz | | Fundamental | N/A | N/A |
| BLE/GFSK High Channel, 2480 MHz | | 30 MHz - 12.5 GHz | -49.98 | -20 |
| BLE/GFSK High Channel, 2480 MHz | | 12.5 GHz - 25 GHz | -48.66 | -20 |

SPURIOUS CONDUCTED EMISSIONS

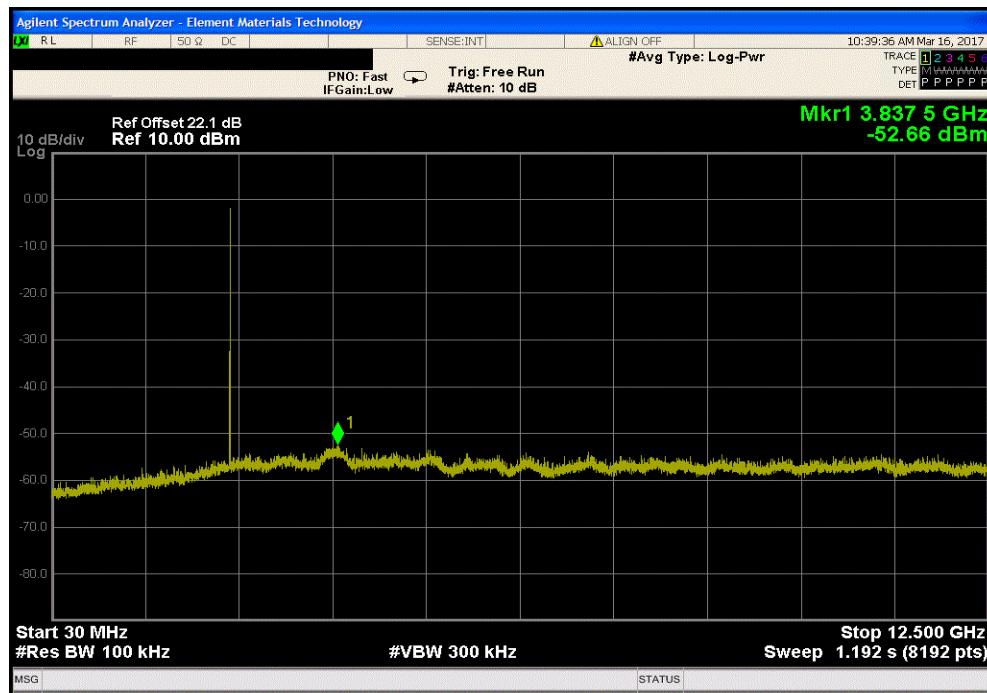


TbTx 2017.01.27 XMII 2017.01.26

| Frequency Range | | Max Value (dBc) | Limit \leq (dBc) | Result |
|-----------------|--|-----------------|--------------------|--------|
| Fundamental | | N/A | N/A | N/A |



| Frequency Range | | Max Value (dBc) | Limit \leq (dBc) | Result |
|-------------------|--|-----------------|--------------------|--------|
| 30 MHz - 12.5 GHz | | -50.99 | -20 | Pass |

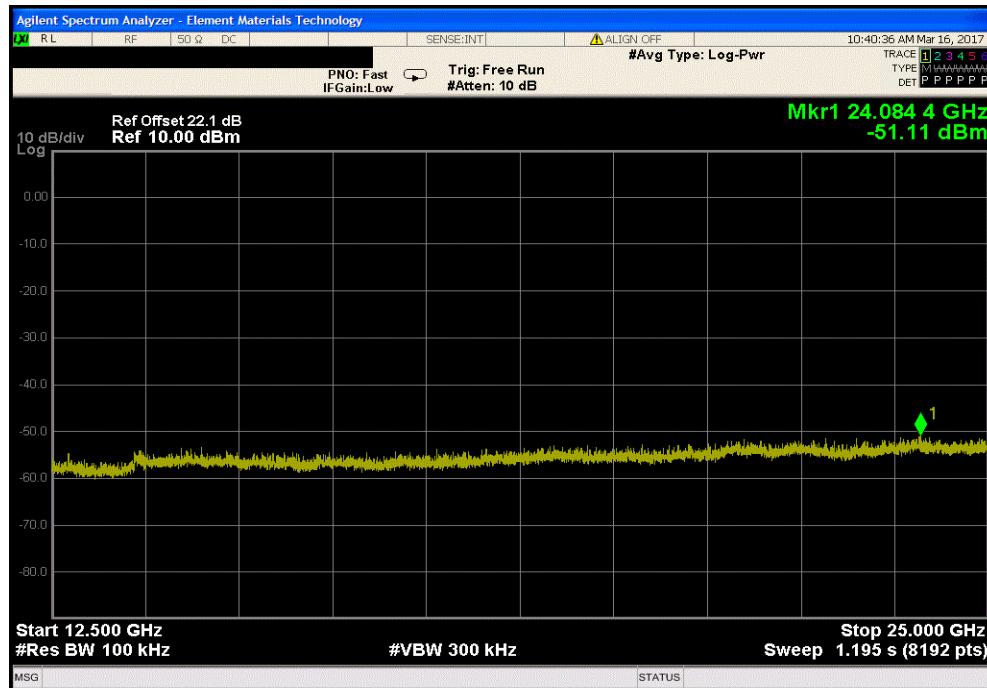


SPURIOUS CONDUCTED EMISSIONS

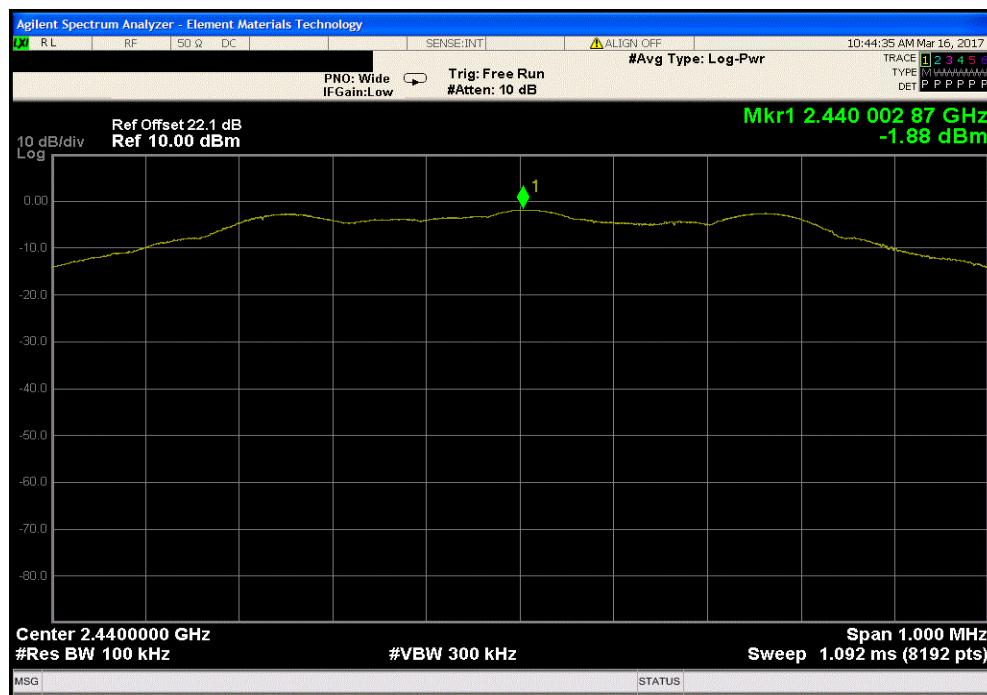


TbTx 2017.01.27 XMII 2017.01.26

| Frequency Range | | Max Value (dBc) | Limit ≤ (dBc) | Result |
|-------------------|--|-----------------|---------------|--------|
| 12.5 GHz - 25 GHz | | -49.44 | -20 | Pass |



| Frequency Range | | Max Value (dBc) | Limit ≤ (dBc) | Result |
|-----------------|--|-----------------|---------------|--------|
| Fundamental | | N/A | N/A | N/A |

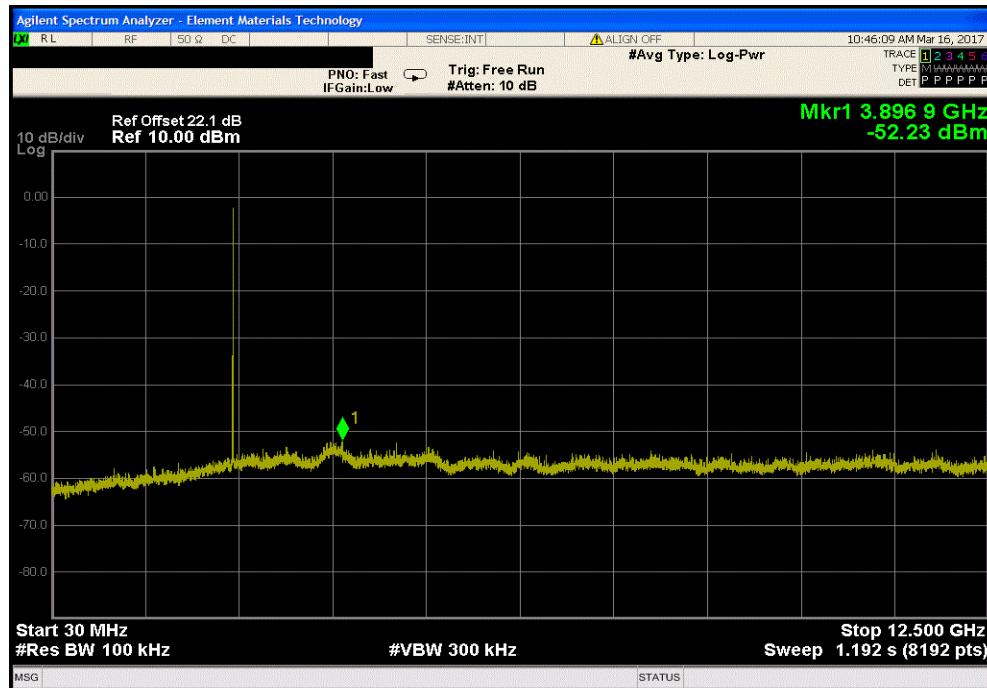


SPURIOUS CONDUCTED EMISSIONS

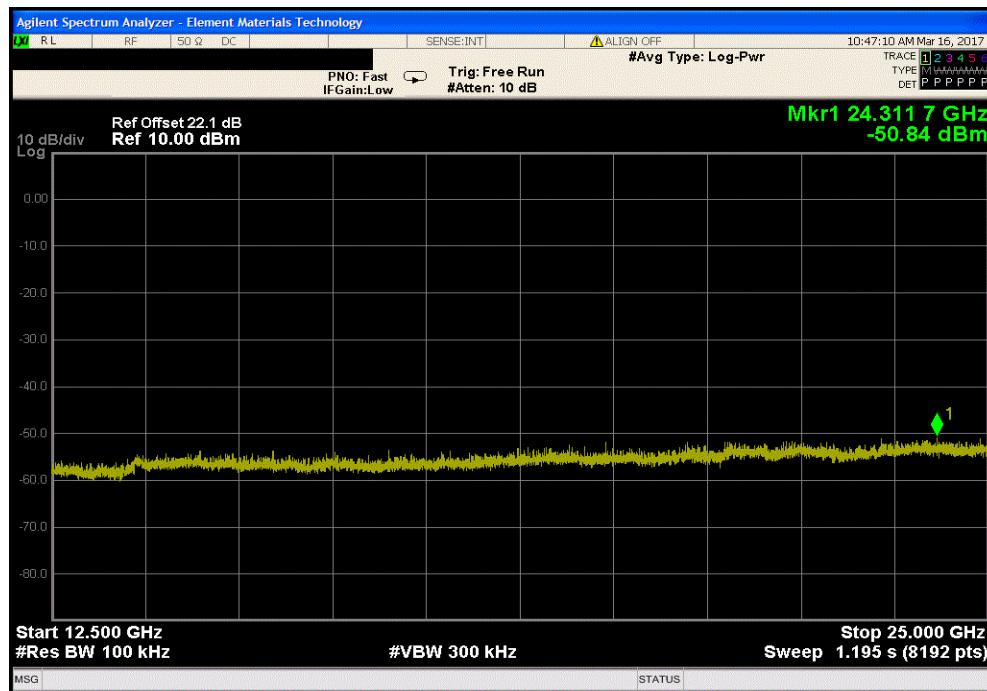


TbTx 2017.01.27 XMII 2017.01.26

| Frequency Range | | Max Value (dBc) | Limit \leq (dBc) | Result |
|-------------------|--|-----------------|--------------------|--------|
| 30 MHz - 12.5 GHz | | -50.35 | -20 | Pass |



| Frequency Range | | Max Value (dBc) | Limit \leq (dBc) | Result |
|-------------------|--|-----------------|--------------------|--------|
| 12.5 GHz - 25 GHz | | -48.96 | -20 | Pass |

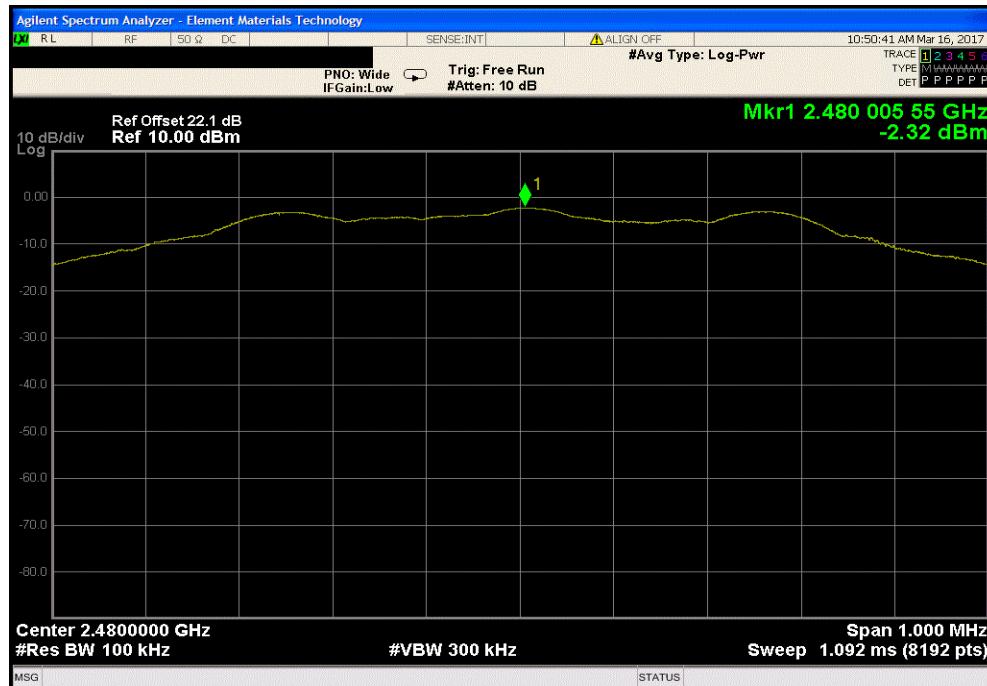


SPURIOUS CONDUCTED EMISSIONS

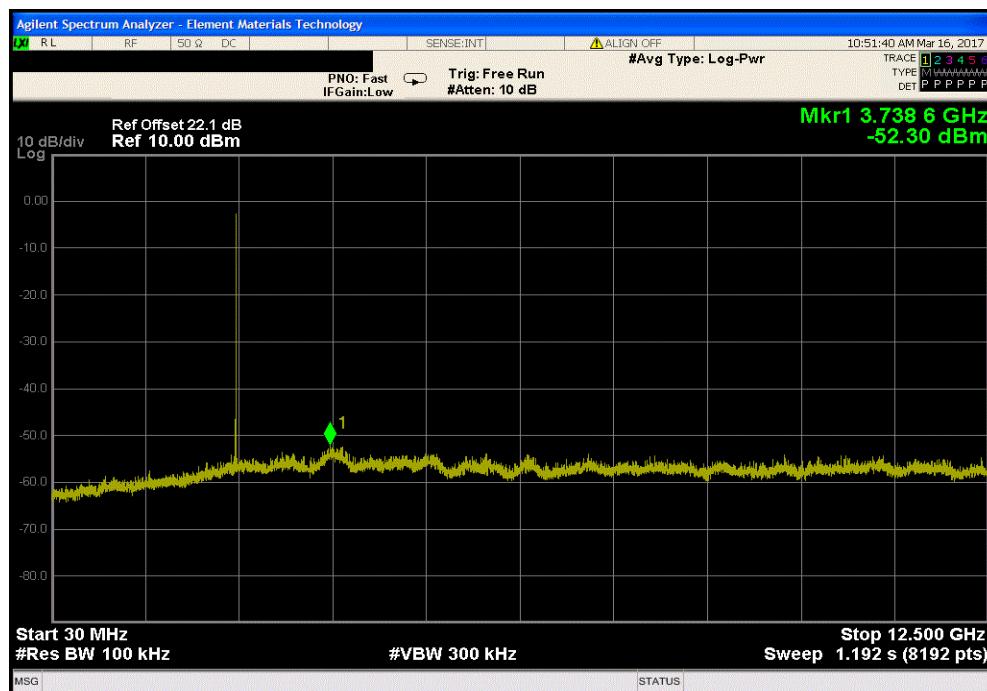


TbTx 2017.01.27 XMII 2017.01.26

| Frequency Range | | Max Value (dBc) | Limit \leq (dBc) | Result |
|-----------------|--|-----------------|--------------------|--------|
| Fundamental | | N/A | N/A | N/A |



| Frequency Range | | Max Value (dBc) | Limit \leq (dBc) | Result |
|-------------------|--|-----------------|--------------------|--------|
| 30 MHz - 12.5 GHz | | -49.98 | -20 | Pass |

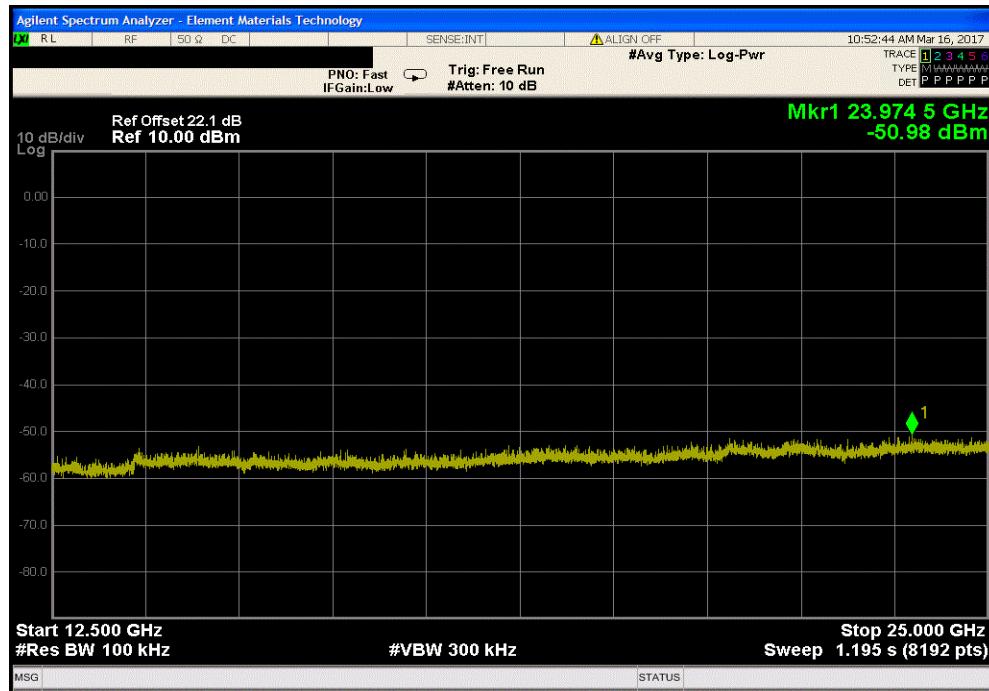


SPURIOUS CONDUCTED EMISSIONS



TbTx 2017.01.27 XMII 2017.01.26

| BLE/GFSK High Channel, 2480 MHz | | | |
|---------------------------------|-----------------|--------------------|--------|
| Frequency Range | Max Value (dBc) | Limit \leq (dBc) | Result |
| 12.5 GHz - 25 GHz | -48.66 | -20 | Pass |



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

Transmitting BLE - low channel (2402 MHz), mid channel (2440 MHz), and high channel (2480 MHz)

POWER SETTINGS INVESTIGATED

3 VDC (Battery)

CONFIGURATIONS INVESTIGATED

STAK0086 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency | 30 MHz | Stop Frequency | 26500 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 |
| Cable | Northwest EMC | 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 - High Pass | Micro-Tronics | HPM50111 | LFN | 9/23/2016 | 12 mo |
| Filter - Low Pass | Micro-Tronics | LPM50004 | LFK | 9/22/2016 | 12 mo |
| Antenna - Biconiolog | Teseq | CBL 6141B | AYD | 1/6/2016 | 24 mo |
| Antenna - Standard Gain | ETS Lindgren | 3160-07 | AXP | NCR | 0 mo |
| Amplifier - Pre-Amplifier | Miteq | AMF-6F-12001800-30-10P | AVW | 2/14/2017 | 12 mo |
| Amplifier - Pre-Amplifier | Miteq | AMF-3D-00100800-32-13P | AVT | 2/14/2017 | 12 mo |
| Amplifier - Pre-Amplifier | Miteq | AM-1616-1000 | AVO | 12/1/2016 | 12 mo |
| Amplifier - Pre-Amplifier | Miteq | JSD4-18002600-26-8P | APU | 9/15/2016 | 12 mo |
| Amplifier - Pre-Amplifier | Miteq | AMF-6F-08001200-30-10P | AVV | 2/14/2017 | 12 mo |
| Antenna - Double Ridge | ETS Lindgren | 3115 | AJA | 6/23/2016 | 24 mo |
| Antenna - Standard Gain | ETS Lindgren | 3160-08 | AIQ | NCR | 0 mo |
| Antenna - Standard Gain | ETS Lindgren | 3160-09 | AHG | NCR | 0 mo |
| Analyzer - Spectrum Analyzer | Keysight | N9010A (EXA) | AFQ | 12/22/2016 | 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

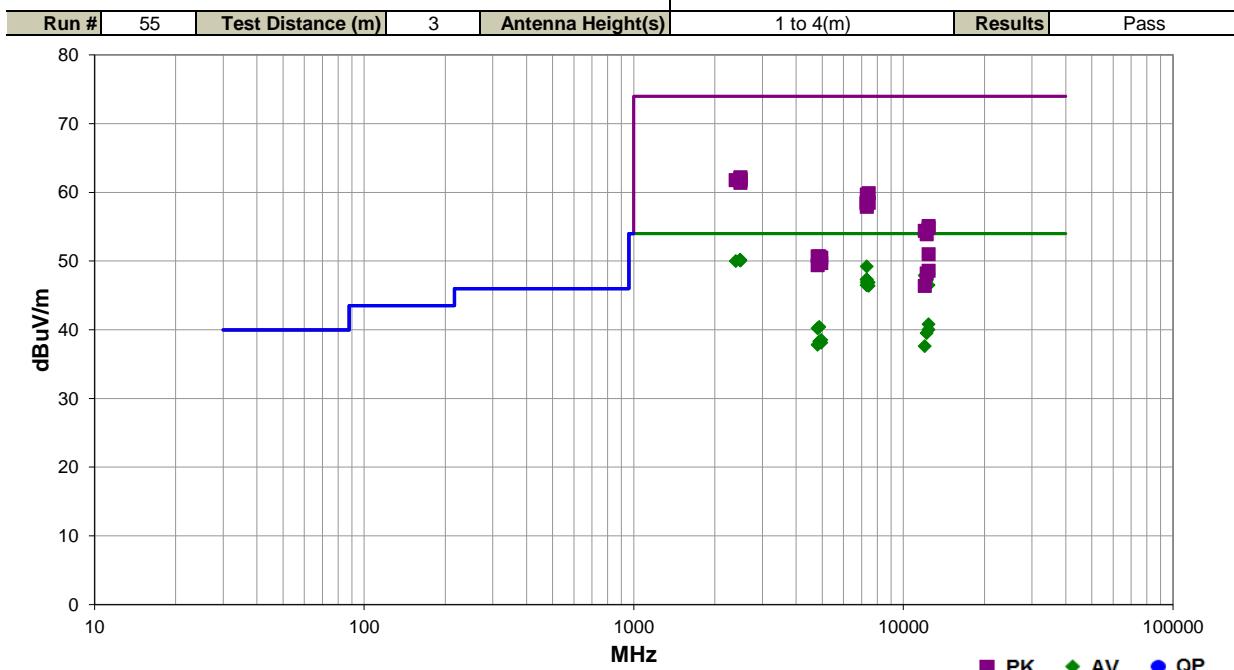


EmiR5 2017.01.25

PSA-ESCI 2017.01.26

| | | | | |
|-----------------|--|-------------------|-----------|--|
| Work Order: | STAK0086 | Date: | 03/21/17 | |
| Project: | None | Temperature: | 21.5 °C | |
| Job Site: | MN05 | Humidity: | 19% RH | |
| Serial Number: | N170742842 | Barometric Pres.: | 1033 mbar | |
| EUT: | TruLink Remote Model 600 | | | |
| Configuration: | 2 | | | |
| Customer: | Starkey Laboratories, Inc. | | | |
| Attendees: | Charlie Esch | | | |
| EUT Power: | 3 VDC (Battery) | | | |
| Operating Mode: | Transmitting BLE - low channel (2402 MHz), mid channel (2440 MHz), and high channel (2480 MHz) | | | |
| Deviations: | None | | | |
| Comments: | None | | | |

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



| 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 |
|------------|------------------|-------------|-------------------------|-------------------|------------------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|-----------------------|
| 2484.333 | 32.7 | -2.5 | 1.0 | 88.1 | 3.0 | 20.0 | Vert | AV | 0.0 | 50.2 | 54.0 | -3.8 | High ch, EUT vertical |
| 2483.992 | 32.6 | -2.5 | 1.3 | 168.0 | 3.0 | 20.0 | Horz | AV | 0.0 | 50.1 | 54.0 | -3.9 | High ch, EUT vertical |
| 2483.792 | 32.6 | -2.5 | 1.0 | 354.9 | 3.0 | 20.0 | Horz | AV | 0.0 | 50.1 | 54.0 | -3.9 | High ch, EUT on side |
| 2484.400 | 32.6 | -2.5 | 1.8 | 317.0 | 3.0 | 20.0 | Vert | AV | 0.0 | 50.1 | 54.0 | -3.9 | High ch, EUT on side |
| 2483.800 | 32.6 | -2.5 | 1.0 | 289.0 | 3.0 | 20.0 | Horz | AV | 0.0 | 50.1 | 54.0 | -3.9 | High ch, EUT horz |
| 2485.550 | 32.6 | -2.5 | 1.0 | 5.1 | 3.0 | 20.0 | Vert | AV | 0.0 | 50.1 | 54.0 | -3.9 | High ch, EUT horz |
| 2389.792 | 32.3 | -2.3 | 3.3 | 147.0 | 3.0 | 20.0 | Vert | AV | 0.0 | 50.0 | 54.0 | -4.0 | Low ch, EUT vertical |
| 7319.375 | 34.1 | 15.1 | 2.1 | 235.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 49.2 | 54.0 | -4.8 | Mid ch, EUT vertical |
| 12398.820 | 47.3 | 0.9 | 1.5 | 137.1 | 3.0 | 0.0 | Horz | AV | 0.0 | 48.2 | 54.0 | -5.8 | High ch, EUT vertical |
| 12008.880 | 48.9 | -1.0 | 1.6 | 311.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 47.9 | 54.0 | -6.1 | Low ch, EUT vertical |
| 7319.500 | 32.2 | 15.1 | 1.0 | 126.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 47.3 | 54.0 | -6.7 | Mid ch, EUT vertical |
| 7319.458 | 32.2 | 15.1 | 1.0 | 203.1 | 3.0 | 0.0 | Horz | AV | 0.0 | 47.3 | 54.0 | -6.7 | Mid ch, EUT on side |
| 12198.820 | 47.1 | 0.0 | 1.6 | 328.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 47.1 | 54.0 | -6.9 | Mid ch, EUT vertical |
| 7319.483 | 31.8 | 15.1 | 1.0 | 82.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 46.9 | 54.0 | -7.1 | Mid ch, EUT on side |
| 7440.408 | 31.9 | 15.0 | 1.0 | 160.1 | 3.0 | 0.0 | Vert | AV | 0.0 | 46.9 | 54.0 | -7.1 | High ch, EUT vertical |
| 7319.575 | 31.4 | 15.1 | 1.0 | 18.0 | 3.0 | 0.0 | Horz | AV | 0.0 | 46.5 | 54.0 | -7.5 | Mid ch, EUT horz |
| 7320.658 | 31.4 | 15.1 | 1.0 | 176.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 46.5 | 54.0 | -7.5 | Mid ch, EUT horz |
| 12401.090 | 40.4 | 6.1 | 1.7 | 173.1 | 3.0 | 0.0 | Horz | AV | 0.0 | 46.5 | 54.0 | -7.5 | High ch, EUT vert |

| 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 |
|------------|------------------|-------------|-------------------------|-------------------|------------------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|-----------------------|
| | | | | | | | | | | | | | |
| 7439.992 | 31.4 | 15.0 | 1.0 | 29.1 | 3.0 | 0.0 | Horz | AV | 0.0 | 46.4 | 54.0 | -7.6 | High ch, EUT vertical |
| 2487.433 | 44.7 | -2.5 | 1.8 | 317.0 | 3.0 | 20.0 | Vert | PK | 0.0 | 62.2 | 74.0 | -11.8 | High ch, EUT on side |
| 2483.500 | 44.5 | -2.5 | 1.0 | 289.0 | 3.0 | 20.0 | Horz | PK | 0.0 | 62.0 | 74.0 | -12.0 | High ch, EUT horz |
| 2485.467 | 44.4 | -2.5 | 1.0 | 354.9 | 3.0 | 20.0 | Horz | PK | 0.0 | 61.9 | 74.0 | -12.1 | High ch, EUT on side |
| 2485.517 | 44.3 | -2.5 | 1.3 | 168.0 | 3.0 | 20.0 | Horz | PK | 0.0 | 61.8 | 74.0 | -12.2 | High ch, EUT vertical |
| 2386.667 | 44.1 | -2.3 | 3.3 | 147.0 | 3.0 | 20.0 | Vert | PK | 0.0 | 61.8 | 74.0 | -12.2 | Low ch, EUT vertical |
| 2484.117 | 44.2 | -2.5 | 1.0 | 5.1 | 3.0 | 20.0 | Vert | PK | 0.0 | 61.7 | 74.0 | -12.3 | High ch, EUT horz |
| 2486.183 | 43.9 | -2.5 | 1.0 | 88.1 | 3.0 | 20.0 | Vert | PK | 0.0 | 61.4 | 74.0 | -12.6 | High ch, EUT vertical |
| 12401.120 | 34.7 | 6.1 | 1.0 | 124.1 | 3.0 | 0.0 | Vert | AV | 0.0 | 40.8 | 54.0 | -13.2 | High ch, EUT vert |
| 4879.975 | 33.7 | 6.7 | 1.0 | 47.1 | 3.0 | 0.0 | Vert | AV | 0.0 | 40.4 | 54.0 | -13.6 | Mid ch, EUT vertical |
| 4803.892 | 33.6 | 6.6 | 1.0 | 28.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 40.2 | 54.0 | -13.8 | Low ch, EUT vertical |
| 12398.870 | 39.1 | 0.9 | 1.0 | 126.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 40.0 | 54.0 | -14.0 | High ch, EUT vertical |
| 7439.875 | 44.9 | 15.0 | 1.0 | 160.1 | 3.0 | 0.0 | Vert | PK | 0.0 | 59.9 | 74.0 | -14.1 | High ch, EUT vertical |
| 7320.625 | 44.6 | 15.1 | 2.1 | 235.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 59.7 | 74.0 | -14.3 | Mid ch, EUT vertical |
| 12198.800 | 39.5 | 0.0 | 1.0 | 170.1 | 3.0 | 0.0 | Vert | AV | 0.0 | 39.5 | 54.0 | -14.5 | Mid ch, EUT vertical |
| 7319.083 | 43.5 | 15.1 | 1.0 | 126.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 58.6 | 74.0 | -15.4 | Mid ch, EUT vertical |
| 7318.733 | 43.4 | 15.1 | 1.0 | 82.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 58.5 | 74.0 | -15.5 | Mid ch, EUT on side |
| 4960.142 | 31.7 | 6.8 | 1.0 | 245.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 38.5 | 54.0 | -15.5 | High ch, EUT vertical |
| 7440.225 | 43.5 | 15.0 | 1.0 | 29.1 | 3.0 | 0.0 | Horz | PK | 0.0 | 58.5 | 74.0 | -15.5 | High ch, EUT vertical |
| 7319.367 | 43.3 | 15.1 | 1.0 | 203.1 | 3.0 | 0.0 | Horz | PK | 0.0 | 58.4 | 74.0 | -15.6 | Mid ch, EUT on side |
| 7318.758 | 43.2 | 15.1 | 1.0 | 176.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 58.3 | 74.0 | -15.7 | Mid ch, EUT horz |
| 4879.875 | 31.6 | 6.7 | 1.0 | 268.9 | 3.0 | 0.0 | Horz | AV | 0.0 | 38.3 | 54.0 | -15.7 | Mid ch, EUT vertical |
| 4959.800 | 31.3 | 6.8 | 1.0 | 330.9 | 3.0 | 0.0 | Horz | AV | 0.0 | 38.1 | 54.0 | -15.9 | High ch, EUT vertical |
| 7319.317 | 42.8 | 15.1 | 1.0 | 18.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 57.9 | 74.0 | -16.1 | Mid ch, EUT horz |
| 4806.317 | 31.2 | 6.6 | 1.0 | 347.9 | 3.0 | 0.0 | Horz | AV | 0.0 | 37.8 | 54.0 | -16.2 | Low ch, EUT vertical |
| 12008.780 | 38.6 | -1.0 | 1.6 | 164.0 | 3.0 | 0.0 | Vert | AV | 0.0 | 37.6 | 54.0 | -16.4 | Low ch, EUT vertical |
| 12401.280 | 49.0 | 6.1 | 1.7 | 173.1 | 3.0 | 0.0 | Horz | PK | 0.0 | 55.1 | 74.0 | -18.9 | High ch, EUT vert |
| 12398.710 | 53.9 | 0.9 | 1.5 | 137.1 | 3.0 | 0.0 | Horz | PK | 0.0 | 54.8 | 74.0 | -19.2 | High ch, EUT vertical |
| 12011.360 | 55.4 | -1.0 | 1.6 | 311.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 54.4 | 74.0 | -19.6 | Low ch, EUT vertical |
| 12198.660 | 53.9 | 0.0 | 1.6 | 328.0 | 3.0 | 0.0 | Horz | PK | 0.0 | 53.9 | 74.0 | -20.1 | Mid ch, EUT vertical |
| 12401.060 | 44.9 | 6.1 | 1.0 | 124.1 | 3.0 | 0.0 | Vert | PK | 0.0 | 51.0 | 74.0 | -23.0 | High ch, EUT vert |
| 4879.925 | 44.0 | 6.7 | 1.0 | 47.1 | 3.0 | 0.0 | Vert | PK | 0.0 | 50.7 | 74.0 | -23.3 | Mid ch, EUT vertical |
| 4803.683 | 44.1 | 6.6 | 1.0 | 28.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 50.7 | 74.0 | -23.3 | Low ch, EUT vertical |
| 4960.117 | 43.7 | 6.8 | 1.0 | 330.9 | 3.0 | 0.0 | Horz | PK | 0.0 | 50.5 | 74.0 | -23.5 | High ch, EUT vertical |
| 4879.517 | 43.1 | 6.7 | 1.0 | 268.9 | 3.0 | 0.0 | Horz | PK | 0.0 | 49.8 | 74.0 | -24.2 | Mid ch, EUT vertical |
| 4959.725 | 42.9 | 6.8 | 1.0 | 245.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 49.7 | 74.0 | -24.3 | High ch, EUT vertical |
| 4803.600 | 42.8 | 6.6 | 1.0 | 347.9 | 3.0 | 0.0 | Horz | PK | 0.0 | 49.4 | 74.0 | -24.6 | Low ch, EUT vertical |
| 12398.880 | 47.7 | 0.9 | 1.0 | 126.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 48.6 | 74.0 | -25.4 | High ch, EUT vertical |
| 12201.380 | 48.2 | 0.0 | 1.0 | 170.1 | 3.0 | 0.0 | Vert | PK | 0.0 | 48.2 | 74.0 | -25.8 | Mid ch, EUT vertical |
| 12011.280 | 47.4 | -1.0 | 1.6 | 164.0 | 3.0 | 0.0 | Vert | PK | 0.0 | 46.4 | 74.0 | -27.6 | Low ch, EUT vertical |